



03/20/15

Technical Report for

Sunoco

MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo

10-046 PO#27

Accutest Job Number: MC37096

Sampling Date: 02/26/15

Report to:

Matrix Environmental
3730 California Road
Orchard Park, NY 14127
rgill@matrixbiotech.com

ATTN: Rob Gill

Total number of pages in report: **284**



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.

Reza Pand
Reza Pand
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Sample Summary

Sunoco

Job No: MC37096

MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY
Project No: 10-046 PO#27

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC37096-1	02/26/15	10:30 DK	02/28/15	AQ	Ground Water	MW-A
MC37096-2	02/26/15	11:50 DK	02/28/15	AQ	Ground Water	MW-B
MC37096-3	02/26/15	11:35 DK	02/28/15	AQ	Field Blank Water	FIELD BLANK
MC37096-4	02/26/15	00:00 DK	02/28/15	AQ	Trip Blank Water	TRIP BLANK



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Sunoco

Job No MC37096

Site: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwoo

Report Date 3/20/2015 2:18:22 PM

2 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were collected on 02/26/2015 and were received at Accutest on 02/28/2015 properly preserved, at 0.4 Deg. C and intact. These Samples received an Accutest job number of MC37096. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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: MSU1116

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC37093-6MS, MC37093-6MSD were used as the QC samples indicated.

Matrix AQ

Batch ID: MSU1117

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D68173-1MS, D68173-1MSD were used as the QC samples indicated.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (MC37096).

Summary of Hits

Job Number: MC37096
Account: Sunoco
Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY
Collected: 02/26/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC37096-1 MW-A

No hits reported in this sample.

MC37096-2 MW-B

No hits reported in this sample.

MC37096-3 FIELD BLANK

No hits reported in this sample.

MC37096-4 TRIP BLANK

No hits reported in this sample.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

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Client Sample ID:	MW-A	Date Sampled:	02/26/15
Lab Sample ID:	MC37096-1	Date Received:	02/28/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U26592.D	1	03/09/15	GK	n/a	n/a	MSU1116
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		67-134%
2037-26-5	Toluene-D8	96%		79-121%
460-00-4	4-Bromofluorobenzene	102%		71-133%

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

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

Accutest Laboratories

Report of Analysis

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Client Sample ID:	MW-B	Date Sampled:	02/26/15
Lab Sample ID:	MC37096-2	Date Received:	02/28/15
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U26613.D	1	03/10/15	GK	n/a	n/a	MSU1117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		67-134%
2037-26-5	Toluene-D8	95%		79-121%
460-00-4	4-Bromofluorobenzene	95%		71-133%

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

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

Accutest Laboratories

Report of Analysis

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Client Sample ID:	FIELD BLANK	Date Sampled:	02/26/15
Lab Sample ID:	MC37096-3	Date Received:	02/28/15
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U26576.D	1	03/09/15	GK	n/a	n/a	MSU1116
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		67-134%
2037-26-5	Toluene-D8	95%		79-121%
460-00-4	4-Bromofluorobenzene	96%		71-133%

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

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

Accutest Laboratories

Report of Analysis

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Client Sample ID:	TRIP BLANK	Date Sampled:	02/26/15
Lab Sample ID:	MC37096-4	Date Received:	02/28/15
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U26575.D	1	03/09/15	GK	n/a	n/a	MSU1116
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		67-134%
2037-26-5	Toluene-D8	96%		79-121%
460-00-4	4-Bromofluorobenzene	93%		71-133%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

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Client / Reporting Information Company Name: <u>Matrix Environmental</u> Street Address: <u>Elmwood Ave</u> City: <u>Buffalo, NY</u> State: <u>NY</u> Zip: <u>14202</u> Project Contact: <u>Rob Gill</u> E-mail: <u>rgill@matrixenv.com</u> Phone #: <u>716-662-0745</u> Fax #: <u></u> Sampler(s) Name(s): <u>D. Kreinheder</u> Phone #: <u></u>		Project Information Project Name: <u>Sen- 905 Elmwood</u> Street: <u>Elmwood Ave</u> City: <u>Buffalo, NY</u> State: <u>NY</u> Zip: <u>14202</u> Project#: <u>10-046</u> Client PO#: <u>27</u> Project Manager: <u>DRG</u> Attention: <u></u> PO#: <u></u>		Requested Analysis (see TEST CODE sheet) Matrix Codes: <u>MC37096</u> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SD - Soil SL - Sludge SED - Sediment 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: <u>MWA</u> MEQ/HDI Val #: <u></u>		Collection Date: <u>2-26</u> Time: <u>10:30</u> Sampled by: <u>DRG</u> Matrix: <u>GW</u> # of bottles: <u>3</u> HCl: <u>3</u> NaOH: <u>3</u> H2SO4: <u>3</u> HNO3: <u>3</u> NONE: <u>3</u> DI Water: <u>3</u> MEQ: <u>3</u> ENCORE: <u>3</u> Butylate: <u>3</u>		Number of preserved Bottles HCl: <u>3</u> NaOH: <u>3</u> H2SO4: <u>3</u> HNO3: <u>3</u> NONE: <u>3</u> DI Water: <u>3</u> MEQ: <u>3</u> ENCORE: <u>3</u> Butylate: <u>3</u>	
-1 <u>MWA</u> -2 <u>MWB</u> -3 <u>Field Blank</u> -4 <u>Trip Blank</u>		Date: <u>2-26</u> Time: <u>10:30</u> Sampled by: <u>DRG</u> Matrix: <u>GW</u> # of bottles: <u>3</u> HCl: <u>3</u> NaOH: <u>3</u> H2SO4: <u>3</u> HNO3: <u>3</u> NONE: <u>3</u> DI Water: <u>3</u> MEQ: <u>3</u> ENCORE: <u>3</u> Butylate: <u>3</u>		Date: <u>2-26</u> Time: <u>11:50</u> Sampled by: <u>DRG</u> Matrix: <u>GW</u> # of bottles: <u>3</u> HCl: <u>3</u> NaOH: <u>3</u> H2SO4: <u>3</u> HNO3: <u>3</u> NONE: <u>3</u> DI Water: <u>3</u> MEQ: <u>3</u> ENCORE: <u>3</u> Butylate: <u>3</u>	
Date: <u>2-26</u> Time: <u>11:35</u> Sampled by: <u>DRG</u> Matrix: <u>GW</u> # of bottles: <u>3</u> HCl: <u>3</u> NaOH: <u>3</u> H2SO4: <u>3</u> HNO3: <u>3</u> NONE: <u>3</u> DI Water: <u>3</u> MEQ: <u>3</u> ENCORE: <u>3</u> Butylate: <u>3</u>		Date: <u>2-26</u> Time: <u>12:40</u> Sampled by: <u>DRG</u> Matrix: <u>GW</u> # of bottles: <u>3</u> HCl: <u>3</u> NaOH: <u>3</u> H2SO4: <u>3</u> HNO3: <u>3</u> NONE: <u>3</u> DI Water: <u>3</u> MEQ: <u>3</u> ENCORE: <u>3</u> Butylate: <u>3</u>		Date: <u>2-26</u> Time: <u>12:40</u> Sampled by: <u>DRG</u> Matrix: <u>GW</u> # of bottles: <u>3</u> HCl: <u>3</u> NaOH: <u>3</u> H2SO4: <u>3</u> HNO3: <u>3</u> NONE: <u>3</u> DI Water: <u>3</u> MEQ: <u>3</u> ENCORE: <u>3</u> Butylate: <u>3</u>	
Turnaround Time (Business days) ☒ Std. 10 Business Days ☐ Std. 5 Business Days (By Contract only) ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink		Approved By (Accutest PM): / Date: <u></u>		Data Deliverable Information ☐ Commercial "A" (Level 1) ☐ NYASP Category A ☐ Commercial "B" (Level 2) ☐ NYASP Category B ☐ FULLT1 (Level 3+4) ☐ State Forms ☐ CT RCP ☐ EDD Format ☐ MA MCP ☐ Other <u></u> Commercial "A" = Results Only Commercial "B" = Results + QC Summary	
Comments / Special Instructions <u>Trip Blank prepared on 2-4-15</u> ACCUTEST SYRACUSE SC		Sample Custody must be documented below each time samples change possession, including courier delivery.		Relinquished by: 1 <u>DRG</u> Date Time: <u>2-26-15 14:00</u> Received By: <u>DRG</u> Date Time: <u>2-26-15 11:30</u> 3 <u>DRG</u> Date Time: <u>2-28-15 10:10</u> Received By: <u>will</u> Date Time: <u></u> 5 <u>DRG</u> Date Time: <u></u> Received By: <u></u> Date Time: <u></u>	
Relinquished by: 3 <u>DRG</u> Date Time: <u>2-28-15 10:10</u> Received By: <u>will</u> Date Time: <u></u> 5 <u>DRG</u> Date Time: <u></u> Received By: <u></u> Date Time: <u></u>		Custody Seal # ☐ Intact ☐ Not Intact Preserved where applicable: ☐ On Ice: ☐ Cooler Temp.: <u>0.40</u>		Relinquished by: 4 <u>DRG</u> Date Time: <u>2-28-15 10:10</u> Received By: <u>will</u> Date Time: <u></u> 5 <u>DRG</u> Date Time: <u></u> Received By: <u></u> Date Time: <u></u>	

MC37096: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC37096 Client: MATRIX Immediate Client Services Action Required: No
 Date / Time Received: 2/28/2015 10:10:00 AM Delivery Method: FedEx
 Project: SUN-905 No. Coolers: Airbill #'s:

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | ☒ | ☐ | 3. COC Present: | ☒ | ☐ |
| 2. Custody Seals Intact: | ☒ | ☐ | 4. Smpl Dates/Time OK | ☒ | ☐ |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | ☒ | ☐ |
| 2. Cooler temp verification: | | |
| 3. Cooler media: | | |

Quality Control Preservation

Y

N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | ☒ | ☐ | |
| 2. Trip Blank listed on COC: | ☒ | ☐ | |
| 3. Samples preserved properly: | ☒ | ☐ | |
| 4. VOCs headspace free: | ☒ | ☐ | ☐ |

Comments

#4-trip blanks no analysis checked off.

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | ☒ | ☐ |
| 2. Container labeling complete: | ☒ | ☐ |
| 3. Sample container label / COC agree: | ☒ | ☐ |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample rec'd within HT: | ☒ | ☐ |
| 2. All containers accounted for: | ☒ | ☐ |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y

N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | ☒ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☒ | |
| 3. Sufficient volume rec'd for analysis: | ☒ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☒ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☒ |

Sample Receipt Summary - Problem Resolution

Accutest Job Number: MC37096

CSR: Frank D'Agostino

Response Date: 3/2/2015

Response: The TB needs to be run for 8260Star list.

5.1

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MC37096: Chain of Custody
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Internal Sample Tracking Chronicle

Sunoco

Job No: MC37096

MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY
Project No: 10-046 PO#27

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC37096-1 Collected: 26-FEB-15 10:30 By: DK Received: 28-FEB-15 By: BA MW-A						
MC37096-1	SW846 8260C	09-MAR-15 19:57	GK			V8260STAR
MC37096-2 Collected: 26-FEB-15 11:50 By: DK Received: 28-FEB-15 By: BA MW-B						
MC37096-2	SW846 8260C	10-MAR-15 15:22	GK			V8260STAR
MC37096-3 Collected: 26-FEB-15 11:35 By: DK Received: 28-FEB-15 By: BA FIELD BLANK						
MC37096-3	SW846 8260C	09-MAR-15 12:38	GK			V8260STAR
MC37096-4 Collected: 26-FEB-15 00:00 By: DK Received: 28-FEB-15 By: BA TRIP BLANK						
MC37096-4	SW846 8260C	09-MAR-15 12:11	GK			V8260STAR

Accutest Internal Chain of Custody

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Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Received: 02/28/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC37096-1.2	VOC Ref #4	Gary Krasinski	03/09/15 11:20	Retrieve from Storage
MC37096-1.2	Gary Krasinski	GCMSU	03/09/15 11:20	Load on Instrument
MC37096-1.2	GCMSU	Gary Krasinski	03/10/15 08:45	Unload from Instrument
MC37096-1.2	Gary Krasinski	VOC Ref #4	03/10/15 08:45	Return to Storage
MC37096-2.1	VOC Ref #4	Gary Krasinski	03/10/15 11:19	Retrieve from Storage
MC37096-2.1	Gary Krasinski	GCMSU	03/10/15 11:19	Load on Instrument
MC37096-2.1	GCMSU	Gary Krasinski	03/11/15 09:19	Unload from Instrument
MC37096-2.1	Gary Krasinski	VOC Ref #4	03/11/15 09:19	Return to Storage
MC37096-2.2	VOC Ref #4	Gary Krasinski	03/09/15 11:20	Retrieve from Storage
MC37096-2.2	Gary Krasinski	GCMSU	03/09/15 11:20	Load on Instrument
MC37096-2.2	GCMSU	Gary Krasinski	03/10/15 08:45	Unload from Instrument
MC37096-2.2	Gary Krasinski	VOC Ref #4	03/10/15 08:45	Return to Storage
MC37096-3.2	VOC Ref #4	Gary Krasinski	03/09/15 11:20	Retrieve from Storage
MC37096-3.2	Gary Krasinski	GCMSU	03/09/15 11:20	Load on Instrument
MC37096-3.2	GCMSU	Gary Krasinski	03/10/15 08:45	Unload from Instrument
MC37096-3.2	Gary Krasinski	VOC Ref #4	03/10/15 08:45	Return to Storage
MC37096-4.1	VOC Ref #4	Gary Krasinski	03/09/15 11:20	Retrieve from Storage
MC37096-4.1	Gary Krasinski	GCMSU	03/09/15 11:20	Load on Instrument
MC37096-4.1	GCMSU	Gary Krasinski	03/10/15 08:45	Unload from Instrument
MC37096-4.1	Gary Krasinski	VOC Ref #4	03/10/15 08:45	Return to Storage

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

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Job Number: MC37096**Account:** SUNOCOSS Sunoco**Project:** MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1116-MB	U26573.D	1	03/09/15	GK	n/a	n/a	MSU1116

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

MC37096-1, MC37096-3, MC37096-4

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 67-134%
2037-26-5	Toluene-D8	95% 79-121%
460-00-4	4-Bromofluorobenzene	94% 71-133%

Method Blank Summary

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Job Number: MC37096**Account:** SUNOCOSS Sunoco**Project:** MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1117-MB	U26604.D	1	03/10/15	GK	n/a	n/a	MSU1117

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

MC37096-2

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 67-134%
2037-26-5	Toluene-D8	97% 79-121%
460-00-4	4-Bromofluorobenzene	93% 71-133%

Blank Spike Summary

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Job Number: MC37096**Account:** SUNOCOSS Sunoco**Project:** MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1116-BS	U26570.D	1	03/09/15	GK	n/a	n/a	MSU1116

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

MC37096-1, MC37096-3, MC37096-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	48.0	96	74-127
104-51-8	n-Butylbenzene	50	53.9	108	75-140
135-98-8	sec-Butylbenzene	50	53.0	106	74-139
98-06-6	tert-Butylbenzene	50	54.4	109	71-141
100-41-4	Ethylbenzene	50	47.2	94	75-129
98-82-8	Isopropylbenzene	50	52.0	104	76-138
99-87-6	p-Isopropyltoluene	50	53.9	108	77-137
1634-04-4	Methyl Tert Butyl Ether	50	47.3	95	62-134
91-20-3	Naphthalene	50	55.5	111	32-196
103-65-1	n-Propylbenzene	50	51.6	103	74-138
108-88-3	Toluene	50	50.1	100	75-134
95-63-6	1,2,4-Trimethylbenzene	50	51.6	103	76-133
108-67-8	1,3,5-Trimethylbenzene	50	55.2	110	72-131
	m,p-Xylene	100	93.2	93	74-129
95-47-6	o-Xylene	50	43.7	87	77-127
1330-20-7	Xylene (total)	150	137	91	75-128

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	67-134%
2037-26-5	Toluene-D8	102%	79-121%
460-00-4	4-Bromofluorobenzene	108%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: MC37096**Account:** SUNOCOSS Sunoco**Project:** MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1117-BS	U26601.D	1	03/10/15	GK	n/a	n/a	MSU1117

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

MC37096-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	48.6	97	74-127
104-51-8	n-Butylbenzene	50	57.4	115	75-140
135-98-8	sec-Butylbenzene	50	57.8	116	74-139
98-06-6	tert-Butylbenzene	50	59.3	119	71-141
100-41-4	Ethylbenzene	50	48.0	96	75-129
98-82-8	Isopropylbenzene	50	56.0	112	76-138
99-87-6	p-Isopropyltoluene	50	58.4	117	77-137
1634-04-4	Methyl Tert Butyl Ether	50	46.5	93	62-134
91-20-3	Naphthalene	50	53.8	108	32-196
103-65-1	n-Propylbenzene	50	54.1	108	74-138
108-88-3	Toluene	50	49.4	99	75-134
95-63-6	1,2,4-Trimethylbenzene	50	54.7	109	76-133
108-67-8	1,3,5-Trimethylbenzene	50	59.0	118	72-131
	m,p-Xylene	100	94.7	95	74-129
95-47-6	o-Xylene	50	45.5	91	77-127
1330-20-7	Xylene (total)	150	140	93	75-128

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	67-134%
2037-26-5	Toluene-D8	101%	79-121%
460-00-4	4-Bromofluorobenzene	105%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37093-6MS	U26584.D	5	03/09/15	GK	n/a	n/a	MSU1116
MC37093-6MSD	U26585.D	5	03/09/15	GK	n/a	n/a	MSU1116
MC37093-6	U26577.D	1	03/09/15	GK	n/a	n/a	MSU1116

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37096-1, MC37096-3, MC37096-4

CAS No.	Compound	MC37093-6 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	250	232	93	250	231	92	0	69-136/30
104-51-8	n-Butylbenzene	ND	250	264	106	250	256	102	3	65-147/30
135-98-8	sec-Butylbenzene	ND	250	254	102	250	246	98	3	72-143/30
98-06-6	tert-Butylbenzene	ND	250	262	105	250	254	102	3	66-146/30
100-41-4	Ethylbenzene	ND	250	229	92	250	224	90	2	67-141/30
98-82-8	Isopropylbenzene	ND	250	250	100	250	243	97	3	71-144/30
99-87-6	p-Isopropyltoluene	ND	250	261	104	250	255	102	2	72-141/30
1634-04-4	Methyl Tert Butyl Ether	ND	250	234	94	250	244	98	4	48-149/30
91-20-3	Naphthalene	ND	250	257	103	250	256	102	0	19-200/30
103-65-1	n-Propylbenzene	ND	250	246	98	250	234	94	5	67-145/30
108-88-3	Toluene	ND	250	239	96	250	230	92	4	72-141/30
95-63-6	1,2,4-Trimethylbenzene	ND	250	255	102	250	248	99	3	66-142/30
108-67-8	1,3,5-Trimethylbenzene	ND	250	269	108	250	261	104	3	68-135/30
	m,p-Xylene	ND	500	449	90	500	445	89	1	67-138/30
95-47-6	o-Xylene	ND	250	216	86	250	220	88	2	72-135/30
1330-20-7	Xylene (total)	ND	750	665	89	750	665	89	0	67-139/30

CAS No.	Surrogate Recoveries	MS	MSD	MC37093-6	Limits
1868-53-7	Dibromofluoromethane	93%	104%	107%	67-134%
2037-26-5	Toluene-D8	102%	101%	96%	79-121%
460-00-4	4-Bromofluorobenzene	107%	101%	93%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D68173-1MS	U26607.D	5	03/10/15	GK	n/a	n/a	MSU1117
D68173-1MSD	U26608.D	5	03/10/15	GK	n/a	n/a	MSU1117
D68173-1	U26605.D	1	03/10/15	GK	n/a	n/a	MSU1117

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37096-2

CAS No.	Compound	D68173-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	250	238	95	250	240	96	1	69-136/30
104-51-8	n-Butylbenzene	ND	250	287	115	250	271	108	6	65-147/30
135-98-8	sec-Butylbenzene	ND	250	276	110	250	252	101	9	72-143/30
98-06-6	tert-Butylbenzene	ND	250	268	107	250	236	94	13	66-146/30
100-41-4	Ethylbenzene	ND	250	238	95	250	231	92	3	67-141/30
98-82-8	Isopropylbenzene	ND	250	268	107	250	243	97	10	71-144/30
99-87-6	p-Isopropyltoluene	ND	250	284	114	250	262	105	8	72-141/30
1634-04-4	Methyl Tert Butyl Ether	ND	250	229	92	250	252	101	10	48-149/30
91-20-3	Naphthalene	ND	250	222	89	250	242	97	9	19-200/30
103-65-1	n-Propylbenzene	ND	250	265	106	250	246	98	7	67-145/30
108-88-3	Toluene	ND	250	249	100	250	242	97	3	72-141/30
95-63-6	1,2,4-Trimethylbenzene	ND	250	269	108	250	252	101	7	66-142/30
108-67-8	1,3,5-Trimethylbenzene	ND	250	283	113	250	265	106	7	68-135/30
	m,p-Xylene	ND	500	472	94	500	456	91	3	67-138/30
95-47-6	o-Xylene	ND	250	225	90	250	223	89	1	72-135/30
1330-20-7	Xylene (total)	ND	750	697	93	750	679	91	3	67-139/30

CAS No.	Surrogate Recoveries	MS	MSD	D68173-1	Limits
1868-53-7	Dibromofluoromethane	97%	99%	96%	67-134%
2037-26-5	Toluene-D8	104%	104%	100%	79-121%
460-00-4	4-Bromofluorobenzene	105%	103%	100%	71-133%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

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Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample: MSU1106-BFB

Injection Date: 02/19/15

Lab File ID: U26285.D

Injection Time: 13:39

Instrument ID: GCMSU

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	6176	22.2	Pass
75	30.0 - 60.0% of mass 95	13542	48.7	Pass
95	Base peak, 100% relative abundance	27808	100.0	Pass
96	5.0 - 9.0% of mass 95	2253	8.10	Pass
173	Less than 2.0% of mass 174	256	0.92 (1.30) ^a	Pass
174	50.0 - 150.0% of mass 95	19768	71.1	Pass
175	5.0 - 9.0% of mass 174	1471	5.29 (7.44) ^a	Pass
176	95.0 - 101.0% of mass 174	19232	69.2 (97.3) ^a	Pass
177	5.0 - 9.0% of mass 176	1660	5.97 (8.63) ^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
MSU1106-IC1106	U26286.D	02/19/15	14:07	00:28	Initial cal 0.5
MSU1106-IC1106	U26287.D	02/19/15	14:35	00:56	Initial cal 1
MSU1106-IC1106	U26288.D	02/19/15	15:03	01:24	Initial cal 2
MSU1106-IC1106	U26289.D	02/19/15	15:30	01:51	Initial cal 5
MSU1106-IC1106	U26290.D	02/19/15	15:58	02:19	Initial cal 10
MSU1106-IC1106	U26291.D	02/19/15	16:25	02:46	Initial cal 25
MSU1106-ICC1106	U26292.D	02/19/15	16:52	03:13	Initial cal 50
MSU1106-IC1106	U26293.D	02/19/15	17:20	03:41	Initial cal 100
MSU1106-IC1106	U26294.D	02/19/15	17:47	04:08	Initial cal 200
MSU1106-IC1106	U26295.D	02/19/15	18:14	04:35	Initial cal 400

Instrument Performance Check (BFB)

Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample: MSU1106-BFB

Injection Date: 02/20/15

Lab File ID: U26307.D

Injection Time: 12:07

Instrument ID: GCMSU

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	7070	16.9	Pass
75	30.0 - 60.0% of mass 95	18145	43.3	Pass
95	Base peak, 100% relative abundance	41877	100.0	Pass
96	5.0 - 9.0% of mass 95	2909	6.95	Pass
173	Less than 2.0% of mass 174	104	0.25 (0.23) ^a	Pass
174	50.0 - 150.0% of mass 95	45424	108.5	Pass
175	5.0 - 9.0% of mass 174	3173	7.58 (6.99) ^a	Pass
176	95.0 - 101.0% of mass 174	44291	105.8 (97.5) ^a	Pass
177	5.0 - 9.0% of mass 176	2943	7.03 (6.64) ^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
MSU1106-BS	U26307.D	02/20/15	12:07	00:00	Blank Spike
MSU1106-CC1106	U26307.D	02/20/15	12:07	00:00	Continuing cal 50
MSU1106-ICV1106	U26307.D	02/20/15	12:07	00:00	Initial cal verification 50
MSU1106-MB	U26310.D	02/20/15	13:28	01:21	Method Blank
ZZZZZZ	U26311.D	02/20/15	13:55	01:48	(unrelated sample)
MC36951-8	U26312.D	02/20/15	14:23	02:16	(used for QC only; not part of job MC37096)
ZZZZZZ	U26313.D	02/20/15	14:51	02:44	(unrelated sample)
ZZZZZZ	U26314.D	02/20/15	15:19	03:12	(unrelated sample)
ZZZZZZ	U26315.D	02/20/15	15:48	03:41	(unrelated sample)
ZZZZZZ	U26316.D	02/20/15	16:16	04:09	(unrelated sample)
ZZZZZZ	U26317.D	02/20/15	16:44	04:37	(unrelated sample)
ZZZZZZ	U26318.D	02/20/15	17:12	05:05	(unrelated sample)
ZZZZZZ	U26319.D	02/20/15	17:40	05:33	(unrelated sample)
ZZZZZZ	U26320.D	02/20/15	18:08	06:01	(unrelated sample)
MC36951-8MS	U26322.D	02/20/15	19:03	06:56	Matrix Spike
MC36951-8MSD	U26323.D	02/20/15	19:31	07:24	Matrix Spike Duplicate
ZZZZZZ	U26324.D	02/20/15	19:59	07:52	(unrelated sample)
ZZZZZZ	U26325.D	02/20/15	20:27	08:20	(unrelated sample)
ZZZZZZ	U26326.D	02/20/15	20:54	08:47	(unrelated sample)
ZZZZZZ	U26327.D	02/20/15	21:22	09:15	(unrelated sample)
ZZZZZZ	U26328.D	02/20/15	21:49	09:42	(unrelated sample)
ZZZZZZ	U26330.D	02/20/15	22:43	10:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample: MSU1107-BFB

Injection Date: 02/23/15

Lab File ID: U26336.D

Injection Time: 08:27

Instrument ID: GCMSU

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	11148	17.5	Pass
75	30.0 - 60.0% of mass 95	26824	42.0	Pass
95	Base peak, 100% relative abundance	63800	100.0	Pass
96	5.0 - 9.0% of mass 95	4260	6.68	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	68256	107.0	Pass
175	5.0 - 9.0% of mass 174	4718	7.39 (6.91) ^a	Pass
176	95.0 - 101.0% of mass 174	67440	105.7 (98.8) ^a	Pass
177	5.0 - 9.0% of mass 176	3970	6.22 (5.89) ^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
MSU1107-ICV1106	U26338.D	02/23/15	09:23	00:56	Initial cal verification 50
MSU1107-CC1106	U26338.D	02/23/15	09:23	00:56	Continuing cal 50
MSU1107-BS	U26339.D	02/23/15	09:51	01:24	Blank Spike
MSU1107-MB	U26341.D	02/23/15	10:47	02:20	Method Blank
ZZZZZZ	U26342.D	02/23/15	11:16	02:49	(unrelated sample)
MC36964-1	U26343.D	02/23/15	11:44	03:17	(used for QC only; not part of job MC37096)
ZZZZZZ	U26344.D	02/23/15	12:12	03:45	(unrelated sample)
ZZZZZZ	U26345.D	02/23/15	12:40	04:13	(unrelated sample)
ZZZZZZ	U26346.D	02/23/15	13:08	04:41	(unrelated sample)
ZZZZZZ	U26347.D	02/23/15	13:36	05:09	(unrelated sample)
ZZZZZZ	U26348.D	02/23/15	14:04	05:37	(unrelated sample)
ZZZZZZ	U26349.D	02/23/15	14:32	06:05	(unrelated sample)
ZZZZZZ	U26350.D	02/23/15	15:00	06:33	(unrelated sample)
ZZZZZZ	U26351.D	02/23/15	15:28	07:01	(unrelated sample)
MC36964-1MS	U26352.D	02/23/15	16:06	07:39	Matrix Spike
MC36964-1MSD	U26353.D	02/23/15	16:34	08:07	Matrix Spike Duplicate
MSU1107-ECC1106	U26355.D	02/23/15	17:31	09:04	Ending cal 50
MSU1108-CC1106	U26355A.D	02/23/15	17:31	09:04	Continuing cal 50
MSU1108-MB	U26356.D	02/23/15	17:59	09:32	Method Blank
ZZZZZZ	U26357.D	02/23/15	18:27	10:00	(unrelated sample)
ZZZZZZ	U26358.D	02/23/15	18:55	10:28	(unrelated sample)
ZZZZZZ	U26359.D	02/23/15	19:22	10:55	(unrelated sample)
ZZZZZZ	U26360.D	02/23/15	19:50	11:23	(unrelated sample)
ZZZZZZ	U26361.D	02/23/15	20:17	11:50	(unrelated sample)

Instrument Performance Check (BFB)

Page 2 of 2

Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample: MSU1107-BFB

Injection Date: 02/23/15

Lab File ID: U26336.D

Injection Time: 08:27

Instrument ID: GCMSU

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	U26362.D	02/23/15	20:44	12:17	(unrelated sample)
ZZZZZZ	U26363.D	02/23/15	21:11	12:44	(unrelated sample)
ZZZZZZ	U26364.D	02/23/15	21:38	13:11	(unrelated sample)
ZZZZZZ	U26365.D	02/23/15	22:06	13:39	(unrelated sample)
ZZZZZZ	U26366.D	02/23/15	22:33	14:06	(unrelated sample)
ZZZZZZ	U26367.D	02/23/15	23:00	14:33	(unrelated sample)
ZZZZZZ	U26368.D	02/23/15	23:27	15:00	(unrelated sample)
ZZZZZZ	U26369.D	02/23/15	23:54	15:27	(unrelated sample)
ZZZZZZ	U26370.D	02/24/15	00:21	15:54	(unrelated sample)
ZZZZZZ	U26371.D	02/24/15	00:49	16:22	(unrelated sample)
ZZZZZZ	U26372.D	02/24/15	01:16	16:49	(unrelated sample)
ZZZZZZ	U26373.D	02/24/15	01:42	17:15	(unrelated sample)
ZZZZZZ	U26377.D	02/24/15	03:29	19:02	(unrelated sample)

6.4.3

6

Instrument Performance Check (BFB)

Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample: MSU1116-BFB

Injection Date: 03/09/15

Lab File ID: U26570.D

Injection Time: 09:51

Instrument ID: GCMSU

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	12548	16.7	Pass
75	30.0 - 60.0% of mass 95	31896	42.5	Pass
95	Base peak, 100% relative abundance	75112	100.0	Pass
96	5.0 - 9.0% of mass 95	4829	6.43	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	77608	103.3	Pass
175	5.0 - 9.0% of mass 174	5211	6.94 (6.71) ^a	Pass
176	95.0 - 101.0% of mass 174	75112	100.0 (96.8) ^a	Pass
177	5.0 - 9.0% of mass 176	4665	6.21 (6.21) ^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
MSU1116-BS	U26570.D	03/09/15	09:51	00:00	Blank Spike
MSU1116-CC1106	U26570.D	03/09/15	09:51	00:00	Continuing cal 50
MSU1116-MB	U26573.D	03/09/15	11:14	01:23	Method Blank
ZZZZZZ	U26574.D	03/09/15	11:44	01:53	(unrelated sample)
MC37096-4	U26575.D	03/09/15	12:11	02:20	TRIP BLANK
MC37096-3	U26576.D	03/09/15	12:38	02:47	FIELD BLANK
MC37093-6	U26577.D	03/09/15	13:06	03:15	(used for QC only; not part of job MC37096)
ZZZZZZ	U26578.D	03/09/15	13:33	03:42	(unrelated sample)
ZZZZZZ	U26579.D	03/09/15	14:00	04:09	(unrelated sample)
ZZZZZZ	U26580.D	03/09/15	14:27	04:36	(unrelated sample)
ZZZZZZ	U26583.D	03/09/15	15:50	05:59	(unrelated sample)
MC37093-6MS	U26584.D	03/09/15	16:17	06:26	Matrix Spike
MC37093-6MSD	U26585.D	03/09/15	16:44	06:53	Matrix Spike Duplicate
ZZZZZZ	U26586.D	03/09/15	17:12	07:21	(unrelated sample)
ZZZZZZ	U26587.D	03/09/15	17:39	07:48	(unrelated sample)
ZZZZZZ	U26588.D	03/09/15	18:06	08:15	(unrelated sample)
ZZZZZZ	U26589.D	03/09/15	18:34	08:43	(unrelated sample)
ZZZZZZ	U26590.D	03/09/15	19:02	09:11	(unrelated sample)
MC37096-1	U26592.D	03/09/15	19:57	10:06	MW-A
ZZZZZZ	U26593.D	03/09/15	20:25	10:34	(unrelated sample)
ZZZZZZ	U26594.D	03/09/15	20:53	11:02	(unrelated sample)
ZZZZZZ	U26595.D	03/09/15	21:21	11:30	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Sample: MSU1117-BFB

Injection Date: 03/10/15

Lab File ID: U26601.D

Injection Time: 09:56

Instrument ID: GCMSU

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	11949	18.1	Pass
75	30.0 - 60.0% of mass 95	28160	42.6	Pass
95	Base peak, 100% relative abundance	66168	100.0	Pass
96	5.0 - 9.0% of mass 95	4168	6.30	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	68264	103.2	Pass
175	5.0 - 9.0% of mass 174	4873	7.36 (7.14) ^a	Pass
176	95.0 - 101.0% of mass 174	64872	98.0 (95.0) ^a	Pass
177	5.0 - 9.0% of mass 176	3913	5.91 (6.03) ^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
MSU1117-BS	U26601.D	03/10/15	09:56	00:00	Blank Spike
MSU1117-CC1106	U26601.D	03/10/15	09:56	00:00	Continuing cal 50
MSU1117-MB	U26604.D	03/10/15	11:17	01:21	Method Blank
D68173-1	U26605.D	03/10/15	11:44	01:48	(used for QC only; not part of job MC37096)
ZZZZZZ	U26606.D	03/10/15	12:11	02:15	(unrelated sample)
D68173-1MS	U26607.D	03/10/15	12:39	02:43	Matrix Spike
D68173-1MSD	U26608.D	03/10/15	13:06	03:10	Matrix Spike Duplicate
ZZZZZZ	U26609.D	03/10/15	13:33	03:37	(unrelated sample)
ZZZZZZ	U26610.D	03/10/15	14:00	04:04	(unrelated sample)
ZZZZZZ	U26611.D	03/10/15	14:28	04:32	(unrelated sample)
ZZZZZZ	U26612.D	03/10/15	14:55	04:59	(unrelated sample)
MC37096-2	U26613.D	03/10/15	15:22	05:26	MW-B
ZZZZZZ	U26614.D	03/10/15	15:49	05:53	(unrelated sample)
ZZZZZZ	U26615.D	03/10/15	16:17	06:21	(unrelated sample)
ZZZZZZ	U26616.D	03/10/15	16:44	06:48	(unrelated sample)
ZZZZZZ	U26617.D	03/10/15	17:11	07:15	(unrelated sample)
ZZZZZZ	U26618.D	03/10/15	17:38	07:42	(unrelated sample)
ZZZZZZ	U26619.D	03/10/15	18:06	08:10	(unrelated sample)
ZZZZZZ	U26620.D	03/10/15	18:33	08:37	(unrelated sample)
ZZZZZZ	U26621.D	03/10/15	19:00	09:04	(unrelated sample)
ZZZZZZ	U26622.D	03/10/15	19:27	09:31	(unrelated sample)
ZZZZZZ	U26624.D	03/10/15	20:22	10:26	(unrelated sample)
ZZZZZZ	U26625.D	03/10/15	20:50	10:54	(unrelated sample)
ZZZZZZ	U26626.D	03/10/15	21:17	11:21	(unrelated sample)

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Check Std: MSU1116-CC1106

Injection Date: 03/09/15

Lab File ID: U26570.D

Injection Time: 09:51

Instrument ID: GCMSU

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	500816	8.95	799073	9.82	321433	13.08	354739	15.64	224025	6.65
Upper Limit ^a	1001632	9.45	1598146	10.32	642866	13.58	709478	16.14	448050	7.15
Lower Limit ^b	250408	8.45	399537	9.32	160717	12.58	177370	15.14	112013	6.15

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU1116-BS	500816	8.95	799073	9.82	321433	13.08	354739	15.64	224025	6.65
MSU1116-MB	409115	8.96	617023	9.83	214566	13.09	312686	15.65	123055	6.75
ZZZZZZ	475669	8.95	732820	9.82	251718	13.08	326778	15.65	112101	6.73
MC37096-4	373884	8.96	572500	9.83	195670	13.09	278746	15.65	127106	6.73
MC37096-3	416857	8.96	654399	9.83	223581	13.09	296300	15.65	159910	6.67
MC37093-6	390665	8.96	610231	9.83	210128	13.09	294639	15.65	108750 ^c	6.73
ZZZZZZ	400846	8.96	628918	9.83	228123	13.08	294419	15.65	143510	6.74
ZZZZZZ	410339	8.96	644778	9.83	226735	13.08	294462	15.65	178928	6.65
ZZZZZZ	464787	8.96	790666	9.82	279894	13.08	253991	15.64	253916	6.65
ZZZZZZ	449317	8.96	695694	9.83	256109	13.08	344495	15.65	171618	6.71
MC37093-6MS	501246	8.95	793646	9.82	319218	13.08	358290	15.64	204643	6.67
MC37093-6MSD	466851	8.96	740573	9.83	291307	13.08	346372	15.64	165982	6.74
ZZZZZZ	445397	8.96	678425	9.83	233788	13.08	306562	15.65	128982	6.71
ZZZZZZ	453128	8.96	707233	9.83	242061	13.08	320954	15.65	150291	6.73
ZZZZZZ	429898	8.96	688467	9.82	285381	13.08	387127	15.64	200002	6.66
ZZZZZZ	464396	8.96	712277	9.83	244069	13.09	315103	15.65	211869	6.66
ZZZZZZ	470243	8.96	747178	9.83	288523	13.08	339080	15.64	136625	6.69
MC37096-1	473227	8.96	733846	9.83	252550	13.08	315939	15.65	255245	6.64
ZZZZZZ	492950	8.96	798844	9.82	339635	13.08	392740	15.64	240498	6.72
ZZZZZZ	504432	8.96	804934	9.83	315465	13.08	366868	15.64	202428	6.69
ZZZZZZ	487567	8.96	769909	9.83	294008	13.08	345797	15.64	236220	6.64

IS 1 = Pentafluorobenzene

IS 2 = 1,4-Difluorobenzene

IS 3 = Chlorobenzene-D5

IS 4 = 1,4-Dichlorobenzene-d4

IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

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

(c) Outside control limits. Target analytes not associated with this internal standard.

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Check Std: MSU1117-CC1106

Injection Date: 03/10/15

Lab File ID: U26601.D

Injection Time: 09:56

Instrument ID: GCMSU

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	468546	8.96	740008	9.82	287534	13.08	312951	15.64	155676	6.73
Upper Limit ^a	937092	9.46	1480016	10.32	575068	13.58	625902	16.14	311352	7.23
Lower Limit ^b	234273	8.46	370004	9.32	143767	12.58	156476	15.14	77838	6.23

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU1117-BS	468546	8.96	740008	9.82	287534	13.08	312951	15.64	155676	6.73
MSU1117-MB	396826	8.96	606395	9.83	210397	13.09	294175	15.65	132265	6.74
D68173-1	413264	8.96	622262	9.83	223927	13.09	282104	15.65	96371	6.70
ZZZZZZ	378539	8.96	591424	9.83	214110	13.09	308034	15.65	117864	6.73
D68173-1MS	409149	8.95	654307	9.82	265310	13.08	297331	15.64	107334	6.71
D68173-1MSD	408708	8.96	639208	9.83	268000	13.08	319974	15.64	122582	6.69
ZZZZZZ	401103	8.96	636058	9.83	232651	13.08	295339	15.65	114239	6.70
ZZZZZZ	395758	8.96	611922	9.83	218192	13.09	279227	15.65	116378	6.72
ZZZZZZ	383279	8.96	600000	9.83	209602	13.09	296837	15.65	121591	6.72
ZZZZZZ	396253	8.96	618416	9.83	217337	13.09	297786	15.65	135715	6.73
MC37096-2	374454	8.96	586032	9.83	200384	13.09	270625	15.65	129750	6.74
ZZZZZZ	385933	8.96	600627	9.83	202396	13.09	269386	15.65	133824	6.74
ZZZZZZ	386188	8.96	598996	9.83	200294	13.09	263867	15.65	130174	6.75
ZZZZZZ	376408	8.96	592379	9.83	205715	13.09	275538	15.65	131169	6.74
ZZZZZZ	373717	8.96	591350	9.83	203797	13.09	271874	15.65	134472	6.74
ZZZZZZ	368330	8.96	571506	9.83	191614	13.09	256059	15.65	123057	6.71
ZZZZZZ	370387	8.96	580653	9.83	193992	13.09	269182	15.65	177586	6.67
ZZZZZZ	357532	8.96	561853	9.83	194179	13.09	264201	15.65	168158	6.66
ZZZZZZ	348651	8.96	539838	9.83	187312	13.09	250011	15.65	113122	6.75
ZZZZZZ	364602	8.96	573481	9.83	197056	13.09	264932	15.65	155806	6.65
ZZZZZZ	357418	8.96	566274	9.83	199697	13.08	268789	15.65	122951	6.74
ZZZZZZ	378757	8.96	597361	9.83	238418	13.08	299131	15.64	82360	6.69
ZZZZZZ	349863	8.96	548347	9.83	191460	13.08	259502	15.64	108786	6.75

IS 1 = Pentafluorobenzene

IS 2 = 1,4-Difluorobenzene

IS 3 = Chlorobenzene-D5

IS 4 = 1,4-Dichlorobenzene-d4

IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

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

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: MC37096

Account: SUNOCOSS Sunoco

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Method: SW846 8260C

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC37096-1	U26592.D	91	96	102
MC37096-2	U26613.D	104	95	95
MC37096-3	U26576.D	96	95	96
MC37096-4	U26575.D	107	96	93
D68173-1MS	U26607.D	97	104	105
D68173-1MSD	U26608.D	99	104	103
MC37093-6MS	U26584.D	93	102	107
MC37093-6MSD	U26585.D	104	101	101
MSU1116-BS	U26570.D	92	102	108
MSU1116-MB	U26573.D	106	95	94
MSU1117-BS	U26601.D	97	101	105
MSU1117-MB	U26604.D	106	97	93

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane

67-134%

S2 = Toluene-D8

79-121%

S3 = 4-Bromofluorobenzene

71-133%

6.6.1

6

Initial Calibration Summary

Page 1 of 4

Job Number: MC37096

Sample: MSU1106-ICC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26292.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Response Factor Report MSU

Method : D:\msdchem\1\methods\U150219w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

Calibration Files

0.5 =U26286.D 1 =U26287.D 2 =U26288.D 5 =U26289.D
10 =U26290.D 25 =U26291.D 50 =U26292.D 100 =U26293.D
200 =U26294.D 400 =U26295.D = =

Compound	0.5	1	2	5	10	25	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 -----ISTD-----												
2) tertiary butyl alcohol			1.449	1.487	1.447	1.452	1.429	1.431	1.434	1.766	1.487	7.69
3) Ethanol			0.054	0.099	0.102	0.084	0.084	0.079	0.078		0.083	19.14
4) I pentafluorobenzene -----ISTD-----												
5) dichlorodifluoromethane			0.680	0.640	0.623	0.655	0.631	0.679	0.635	0.590	0.642	4.66
6) chloromethane			0.990	0.902	0.898	0.871	0.867	0.808	0.859	0.828	0.867	7.05
7) vinyl chloride			0.813	0.755	0.724	0.699	0.703	0.705	0.748	0.714	0.673	5.66
8) bromomethane			0.592	0.527	0.516	0.504	0.489	0.480	0.510	0.498	0.470	6.97
9) chloroethane			0.306	0.290	0.310	0.299	0.303	0.302	0.323	0.316	0.303	3.13
10) ethyl ether			0.441	0.399	0.421	0.392	0.407	0.378	0.375		0.402	5.81
11) acetonitrile			0.069	0.086	0.059	0.058	0.058	0.058	0.044		0.062	22.55
---- Quadratic regression ---- Coefficient = 0.9975												
Response Ratio = -0.00002 + 0.06806 *A + -0.00597 *A^2												
12) trichlorofluoromethane			0.898	0.918	0.871	0.885	0.899	0.930	1.007	0.984	0.939	4.89
13) freon-113			0.773	0.656	0.748	0.719	0.736	0.732	0.708		0.725	5.08
14) acrolein											0.000#	-1.00
15) 1,1-dichloroethene			0.842	0.721	0.639	0.616	0.604	0.598	0.604	0.596	0.591	13.00
16) acetone			0.049	0.050	0.048	0.048	0.042	0.046			0.047#	7.05
17) Methyl Acetate			0.927	0.714	0.756	0.661	0.701	0.611	0.618		0.713	15.16
18) methylene chloride			0.810	0.680	0.682	0.652	0.621	0.607	0.614	0.585	0.585	10.87
19) methyl tert butyl ether			1.794	1.438	1.587	1.387	1.448	1.355	1.428	1.336	1.313	10.39
20) acrylonitrile			0.248	0.205	0.229	0.210	0.222	0.194	0.196		0.215	9.07
21) allyl chloride			0.959	0.829	0.835	0.800	0.804	0.703	0.596		0.789	14.43

Initial Calibration Summary

Page 2 of 4

Job Number: MC37096

Sample: MSU1106-ICC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26292.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

22)	trans-1,2-dichloroethene	0.861	0.597	0.628	0.548	0.548	0.525	0.544	0.520	0.510	0.587	18.67
23)	iodomethane	1.312	1.251	1.259	1.233	1.251	1.205	1.166	1.240			3.69
24)	carbon disulfide	2.157	2.079	2.063	2.034	2.036	2.026	1.985	2.055			2.63
25)	propionitrile	0.045	0.038	0.045	0.044	0.044	0.043	0.040	0.043#			6.27
26)	vinyl acetate	0.640	0.569	0.538	0.551	0.570	0.548	0.538	0.565			6.29
27)	chloroprene	0.802	0.705	0.763	0.739	0.773	0.749	0.736	0.752			4.11
28)	di-isopropyl ether	1.696	1.769	1.658	1.664	1.605	1.663	1.571	1.537	1.645		4.45
29)	methacrylonitrile	0.388	0.335	0.329	0.317	0.334	0.292	0.324	0.331			8.78
30)	2-butanone	0.047	0.069	0.082	0.068	0.080	0.064	0.073	0.069#			17.26
31)	Ethyl Acetate	1.598	1.499	1.513	1.406	1.492	1.379	1.420	1.472			5.14
32)	Hexane	0.833	0.744	0.783	0.757	0.748	0.735	0.723	0.760			4.86
33)	1,1-dichloroethane	1.219	0.925	0.974	0.899	0.904	0.869	0.906	0.854	0.845	0.933	12.24
34)	tert-butyl ethyl ether	1.635	1.767	1.624	1.663	1.595	1.678	1.595	1.575	1.642		3.75
35)	isobutyl alcohol	0.102	0.057	0.060	0.056	0.056	0.055	0.043	0.061			30.59
	---- Quadratic regression ----	Coefficient = 0.9955										
	Response Ratio =	0.01216 + 0.05917 *A + -0.00039 *A^2										
36)	2,2-dichloropropane	0.690	0.560	0.617	0.568	0.594	0.594	0.537	0.594			8.38
37)	cis-1,2-dichloroethene	0.912	0.687	0.693	0.616	0.610	0.586	0.603	0.566	0.564	0.649	16.81
38)	bromochloromethane	0.464	0.360	0.392	0.359	0.365	0.349	0.363	0.339	0.333	0.369	10.68
39)	chloroform	1.281	0.972	1.043	0.949	0.965	0.921	0.965	0.910	0.905	0.990	11.80
40)	dibromofluoromethane (s)	0.546	0.618	0.570	0.621	0.535	0.601	0.568	0.574	0.562	0.524	5.77
41)	Tetrahydrofuran	0.207	0.172	0.177	0.158	0.174	0.149	0.167	0.172			10.59
42)	1,1,1-trichloroethane	1.083	0.759	0.888	0.794	0.848	0.822	0.869	0.872	0.861	0.866	10.53
43)	I 1,4-difluorobenzene	-----ISTD-----										
44)	Cyclohexane	0.667	0.573	0.637	0.617	0.624	0.624	0.614	0.622			4.54
45)	carbon tetrachloride	0.642	0.447	0.528	0.456	0.498	0.483	0.501	0.505	0.497	0.506	11.19
46)	1,1-dichloropropene	0.441	0.392	0.411	0.396	0.404	0.393	0.385	0.403			4.64
47)	benzene	1.107	1.544	1.228	1.266	1.191	1.176	1.142	1.172	1.136	1.121	10.55
48)	1,2-dichloroethane	0.599	0.490	0.502	0.469	0.460	0.442	0.458	0.433	0.385	0.471	12.51
49)	tert-amyl methyl ether	0.840	1.077	0.916	0.910	0.856	0.889	0.837	0.825	0.894		9.13
50)	heptane											

6.7.1
6

Initial Calibration Summary

Job Number: MC37096

Sample: MSU1106-ICC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26292.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

		0.394	0.338	0.372	0.361	0.356	0.365	0.364	0.364	4.70			
51)	trichloroethene	0.325	0.447	0.401	0.379	0.359	0.358	0.361	0.371	0.354	0.361	0.372	8.83
52)	1,2-dichloropropane	0.357	0.304	0.288	0.289	0.282	0.280	0.295	0.293	0.300	0.299	7.76	
53)	dibromomethane	0.240	0.246	0.231	0.222	0.214	0.222	0.208	0.212	0.224	6.08		
54)	bromodichloromethane	0.528	0.448	0.450	0.442	0.440	0.434	0.453	0.440	0.446	0.453	6.30	
55)	Methylcyclohexane	0.583	0.492	0.567	0.546	0.558	0.567	0.573	0.555	5.44			
56)	2-chloroethyl vinyl ether	0.057	0.046	0.038	0.060	0.064	0.061	0.044	0.053	19.35			
57)	methyl methacrylate	0.137	0.137	0.139	0.146	0.164	0.163	0.182	0.153	11.41			
58)	1,4-dioxane								0.000#	-1.00			
59)	cis-1,3-dichloropropene	0.397	0.481	0.425	0.401	0.414	0.402	0.415	0.442	0.445	0.464	0.429	6.66
60)	toluene-d8 (s)	0.957	0.963	0.939	0.978	0.988	0.992	1.006	1.048	1.078	1.121	1.007	5.76
61)	4-methyl-2-pentanone	0.349	0.287	0.305	0.281	0.318	0.287	0.328	0.308	8.17			
62)	toluene	0.807	0.631	0.646	0.646	0.644	0.646	0.691	0.706	0.734	0.684	8.50	
63)	trans-1,3-dichloropropene	0.260	0.362	0.315	0.305	0.329	0.315	0.325	0.360	0.365	0.394	0.333	11.42
64)	1,1,2-trichloroethane	0.219	0.185	0.196	0.195	0.193	0.194	0.212	0.213	0.231	0.204	7.37	
65)	ethyl methacrylate	0.248	0.238	0.249	0.252	0.287	0.290	0.340	0.272	13.28			
66)	I chlorobenzene-d5	-----ISTD-----											
67)	tetrachloroethene	0.685	1.108	0.871	0.892	0.844	0.826	0.793	0.807	0.790	0.747	0.836	13.47
68)	1,3-dichloropropane	0.921	0.954	0.882	0.875	0.913	0.879	0.864	0.898	3.57			
69)	dibromochloromethane	0.867	1.131	0.977	0.937	0.944	0.908	0.892	0.927	0.895	0.851	0.933	8.48
70)	1,2-dibromoethane	0.863	0.756	0.748	0.742	0.692	0.676	0.712	0.679	0.668	0.726	8.40	
71)	2-hexanone	0.624	0.543	0.530	0.429	0.507	0.424	0.470	0.504	13.96			
72)	chlorobenzene	2.717	2.333	2.153	2.177	2.041	1.991	2.085	2.050	2.004	2.172	10.59	
73)	1,1,1,2-tetrachloroethane	1.054	1.073	0.975	0.960	0.905	0.944	0.892	0.845	0.956	8.19		
74)	ethylbenzene	4.148	3.316	3.454	3.177	3.171	3.050	3.188	3.085	3.051	3.293	10.50	
75)	m,p-xylene	1.227	1.665	1.342	1.379	1.294	1.303	1.247	1.323	1.272	1.248	1.330	9.52
76)	o-xylene	1.421	1.858	1.545	1.607	1.446	1.472	1.405	1.486	1.402	1.390	1.503	9.48
77)	styrene	2.460	2.104	2.112	2.034	2.012	1.892	2.047	2.065	2.149	2.097	7.37	
78)	bromoform	0.709	0.548	0.598	0.557	0.545	0.523	0.570	0.552	0.586	0.576	9.48	
79)	trans-1,4-dichloro-2-butene	0.215	0.190	0.206	0.184	0.199	0.179	0.189	0.194	6.47			

Job Number: MC37096

Sample: MSU1106-ICC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26292.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

	I	1,4-dichlorobenzene-d	ISTD								
80)	isopropylbenzene		2.975	2.932	3.029	3.164	3.175	3.038	3.037	3.050	2.97
82)	bromofluorobenzene (s)	0.671 0.648 0.673	0.658	0.697	0.679	0.712	0.719	0.744	0.826	0.703	7.47
83)	bromobenzene		0.748	0.765	0.735	0.760	0.790	0.797	0.859	0.779	5.30
84)	1,1,2,2-tetrachloroethane	0.564 0.850 0.753	0.801	0.662	0.753	0.717	0.725	0.735	0.661	0.722	11.03
85)	1,2,3-trichloropropane		0.752	0.719	0.702	0.688	0.719	0.675	0.732	0.712	3.66
86)	n-propylbenzene		3.222	3.104	3.167	3.276	3.270	3.177	3.240	3.208	1.93
87)	2-chlorotoluene		2.023	1.998	1.974	2.044	2.077	2.021	2.146	2.040	2.78
88)	4-chlorotoluene		1.875	1.865	1.803	1.850	1.912	1.940	2.118	1.909	5.36
89)	1,3,5-trimethylbenzene	2.928 2.464	2.580	2.618	2.713	2.820	2.888	2.864	2.782	2.740	5.74
90)	tert-butylbenzene		1.236	1.344	1.477	1.608	1.632	1.667	1.696	1.523	11.58
91)	1,2,4-trimethylbenzene	3.183 2.687	2.755	2.722	2.797	2.886	3.002	2.954	2.774	2.862	5.60
92)	sec-butylbenzene		3.440	3.354	3.693	3.824	3.831	3.874	3.423	3.634	6.12
93)	1,3-dichlorobenzene	1.912 1.617	1.632	1.569	1.551	1.563	1.596	1.564	1.554	1.617	7.06
94)	p-isopropyltoluene		3.198	3.090	3.264	3.364	3.418	3.419	2.850	3.229	6.38
95)	1,4-dichlorobenzene	2.084 1.781	1.735	1.687	1.625	1.608	1.630	1.567	1.425	1.682	10.82
96)	1,2-dichlorobenzene	2.265 1.906	1.854	1.804	1.796	1.779	1.843	1.748	1.589	1.843	9.85
97)	n-butylbenzene		2.923	2.698	2.905	2.822	2.819	2.822	2.470	2.780	5.57
98)	1,2-dibromo-3-chloropropane	0.255 0.209	0.218	0.188	0.185	0.173	0.183	0.165		0.197	14.84
99)	1,3,5-trichlorobenzene		1.831	1.756	1.777	1.708	1.652	1.522	1.144	1.627	14.46
100)	1,2,4-trichlorobenzene	2.275 1.905	1.913	1.830	1.811	1.715	1.616	1.469		1.817	13.14
101)	hexachlorobutadiene		0.541	0.538	0.616	0.578	0.589	0.599	0.448	0.558	10.15
102)	naphthalene		5.085	4.943	4.891	4.698	4.557	3.998	2.820	4.427	17.90
103)	2-Methylnaphthalene			2.918	2.956	2.841	2.790	2.590	1.728	2.637	17.58
104)	1-Methylnaphthalene			2.278	2.244	2.170	2.144	1.963	1.305	2.017	18.14
105)	1,2,3-trichlorobenzene		1.890	1.823	1.782	1.703	1.596	1.448	1.018	1.609	18.63

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(#) = Out of Range   ### Number of calibration levels exceeded format   ###
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U150219w.m

Fri Feb 20 11:42:52 2015

Initial Calibration Verification

Page 1 of 3

Job Number: MC37096

Sample: MSU1106-ICV1106

Account: SUNOCOSS Sunoco

Lab FileID: U26307.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U150220\U26307.D Vial: 7
 Acq On : 20 Feb 2015 12:07 pm Operator: GaryK
 Sample : cc1106-50 Inst : MSU
 Misc : ms33880,msu1106,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U150219w.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Fri Feb 20 11:18:57 2015
 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	tert butyl alcohol-d9	1.000	1.000	0.0	66	0.00	6.75
2 P	tertiary butyl alcohol	1.487	1.320	11.2	61	0.00	6.81
3 P	Ethanol	0.083	0.072	13.3	56	-0.05	5.73
4 I	pentafluorobenzene	1.000	1.000	0.0	88	0.00	8.96
5 P	dichlorodifluoromethane	0.642	1.008	-57.0#	140	0.00	4.31
6 P	chloromethane	0.867	1.085	-25.1#	118	-0.01	4.54
7 P	vinyl chloride	0.726	0.978	-34.7#	122	-0.01	4.79
8 P	bromomethane	0.510	0.627	-22.9#	115	-0.01	5.27
9 P	chloroethane	0.306	0.370	-20.9#	107	0.00	5.41
10 P	ethyl ether	0.402	0.416	-3.5	93	0.00	6.29
----- Amount Calc. %Drift -----							
11 P	acetonitrile	50.000	43.833	12.3	84	0.01	6.10
----- AvgRF CCRF %Dev -----							
12 P	trichlorofluoromethane	0.926	1.216	-31.3#	115	-0.01	6.07
13 P	freon-113	0.725	0.779	-7.4	95	-0.01	6.83
14 P	acrolein	0.000	0.002#	0.0	0#	0.02	6.06
15 P	1,1-dichloroethene	0.646	0.595	7.9	88	0.00	6.63
16 P	acetone	0.047	0.038#	19.1	69	0.01	6.18
17 P	Methyl Acetate	0.713	0.506	29.0#	67	0.02	6.88
18 P	methylene chloride	0.648	0.678	-4.6	98	0.00	6.77
19 P	methyl tert butyl ether	1.454	1.499	-3.1	97	0.00	7.57
20 P	acrylonitrile	0.215	0.217	-0.9	91	0.02	6.77
21 P	allyl chloride	0.789	0.921	-16.7	101	0.00	6.86
22 P	trans-1,2-dichloroethene	0.587	0.621	-5.8	104	0.00	7.46
23 P	iodomethane	1.240	1.336	-7.7	95	0.00	6.68
24 P	carbon disulfide	2.055	1.949	5.2	84	-0.02	7.05
25 P	propionitrile	0.043	0.043#	0.0	86	0.00	8.07
26 P	vinyl acetate	0.565	0.974	-72.4#	156	0.00	7.82
27 P	chloroprene	0.752	0.741	1.5	88	0.00	8.07
28 P	di-isopropyl ether	1.645	1.798	-9.3	98	0.00	8.11
29 P	methacrylonitrile	0.331	0.338	-2.1	94	0.00	8.25
30 P	2-butanone	0.069	0.072#	-4.3	93	-0.04	8.14
31 P	Ethyl Acetate	1.472	1.572	-6.8	98	0.00	8.11
32 P	Hexane	0.760	0.773	-1.7	90	0.00	8.09
33 P	1,1-dichloroethane	0.933	0.937	-0.4	95	0.00	7.71
34 P	tert-butyl ethyl ether	1.642	1.716	-4.5	95	0.00	8.51
----- Amount Calc. %Drift -----							
35 P	isobutyl alcohol	250.000	250.714	-0.3	94	0.00	8.53

Initial Calibration Verification

Page 2 of 3

Job Number: MC37096

Sample: MSU1106-ICV1106

Account: SUNOCOSS Sunoco

Lab FileID: U26307.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

		AvgRF	CCRF	%Dev				
36	P	2,2-dichloropropane	0.594	0.739	-24.4#	114	0.00	8.57
37	P	cis-1,2-dichloroethene	0.649	0.706	-8.8	106	0.00	8.28
38	P	bromochloromethane	0.369	0.396	-7.3	100	0.00	8.45
39	P	chloroform	0.990	1.058	-6.9	101	0.00	8.48
40	S	dibromofluoromethane (s)	0.572	0.635	-11.0	98	0.00	8.60
41	P	Tetrahydrofuran	0.172	0.155	9.9	86	0.00	8.87
42	P	1,1,1-trichloroethane	0.866	0.936	-8.1	100	0.00	9.23
43	I	1,4-difluorobenzene	1.000	1.000	0.0	88	0.00	9.83
44	P	Cyclohexane	0.622	0.651	-4.7	93	0.00	9.52
45	P	carbon tetrachloride	0.506	0.537	-6.1	98	0.00	9.59
46	P	1,1-dichloropropene	0.403	0.393	2.5	87	0.00	9.40
47	P	benzene	1.208	1.225	-1.4	94	0.00	9.62
48	P	1,2-dichloroethane	0.471	0.488	-3.6	97	0.00	9.14
49	P	tert-amyl methyl ether	0.894	0.931	-4.1	96	0.00	9.75
50	P	heptane	0.364	0.405	-11.3	99	0.00	10.11
51	P	trichloroethene	0.372	0.397	-6.7	97	0.00	10.24
52	P	1,2-dichloropropane	0.299	0.297	0.7	93	0.00	10.21
53	P	dibromomethane	0.224	0.215	4.0	88	0.00	10.19
54	P	bromodichloromethane	0.453	0.449	0.9	91	0.00	10.30
55	P	Methylcyclohexane	0.555	0.598	-7.7	96	0.00	10.77
56	P	2-chloroethyl vinyl ether	0.053	0.068	-28.3#	100	0.00	10.69
57	P	methyl methacrylate	0.153	0.132	13.7	79	0.01	10.42
58	P	1,4-dioxane	0.000	0.000#	0.0	0#	0.06	10.51
59	P	cis-1,3-dichloropropene	0.429	0.435	-1.4	92	0.00	10.92
60	S	toluene-d8 (s)	1.007	1.026	-1.9	90	0.00	11.62
61	P	4-methyl-2-pentanone	0.308	0.317	-2.9	99	0.00	11.04
62	P	toluene	0.684	0.663	3.1	90	0.00	11.69
63	P	trans-1,3-dichloropropene	0.333	0.314	5.7	85	0.00	11.34
64	P	1,1,2-trichloroethane	0.204	0.192	5.9	87	0.00	11.52
65	P	ethyl methacrylate	0.272	0.263	3.3	92	0.00	11.73
66	I	chlorobenzene-d5	1.000	1.000	0.0	89	0.00	13.08
67	P	tetrachloroethene	0.836	0.780	6.7	87	0.00	12.44
68	P	1,3-dichloropropane	0.898	0.856	4.7	87	0.00	11.75
69	P	dibromochloromethane	0.933	0.865	7.3	86	0.00	12.04
70	P	1,2-dibromoethane	0.726	0.650	10.5	86	0.00	12.29
71	P	2-hexanone	0.504	0.663	-31.5#	137	0.00	11.90
72	P	chlorobenzene	2.172	1.875	13.7	84	0.00	13.12
73	P	1,1,1,2-tetrachloroethane	0.956	1.053	-10.1	104	0.00	13.04
74	P	ethylbenzene	3.293	3.258	1.1	95	0.00	13.29
75	P	m,p-xylene	1.330	1.312	1.4	94	0.00	13.48
76	P	o-xylene	1.503	1.510	-0.5	96	0.00	13.89
77	P	styrene	2.097	1.956	6.7	92	0.00	13.82
78	P	bromoform	0.576	0.506	12.2	86	0.00	13.64
79	P	trans-1,4-dichloro-2-bute	0.194	0.190	2.1	92	0.00	14.05
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	15.64
81	P	isopropylbenzene	3.050	3.189	-4.6	97	0.00	14.25
82	S	bromofluorobenzene (s)	0.703	0.669	4.8	90	0.00	14.31
83	P	bromobenzene	0.779	0.736	5.5	93	0.00	14.54
84	P	1,1,2,2-tetrachloroethane	0.722	0.674	6.6	90	0.00	13.90
85	P	1,2,3-trichloropropane	0.712	0.680	4.5	95	0.00	14.05
86	P	n-propylbenzene	3.208	3.206	0.1	94	0.00	14.70
87	P	2-chlorotoluene	2.040	2.041	-0.0	96	0.00	14.81
88	P	4-chlorotoluene	1.909	1.795	6.0	93	0.00	14.89
89	P	1,3,5-trimethylbenzene	2.740	3.141	-14.6	107	0.00	14.97
90	P	tert-butylbenzene	1.523	1.587	-4.2	95	0.00	15.28

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Initial Calibration Verification

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Job Number: MC37096

Sample: MSU1106-ICV1106

Account: SUNOCOSS Sunoco

Lab FileID: U26307.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

91 P	1,2,4-trimethylbenzene	2.862	3.080	-7.6	102	0.00	15.38
92 P	sec-butylbenzene	3.634	3.904	-7.4	98	0.00	15.50
93 P	1,3-dichlorobenzene	1.617	1.541	4.7	95	0.00	15.61
94 P	p-isopropyltoluene	3.229	3.682	-14.0	105	0.00	15.68
95 P	1,4-dichlorobenzene	1.682	1.580	6.1	94	0.00	15.67
96 P	1,2-dichlorobenzene	1.843	1.819	1.3	98	0.00	16.04
97 P	n-butylbenzene	2.780	3.206	-15.3	109	0.00	16.10
98 P	1,2-dibromo-3-chloropropa	0.197	0.156	20.8#	87	0.00	16.52
99 P	1,3,5-trichlorobenzene	1.627	1.779	-9.3	100	0.00	17.33
100 P	1,2,4-trichlorobenzene	1.817	1.824	-0.4	102	0.00	17.87
101 P	hexachlorobutadiene	0.558	0.645	-15.6	107	0.00	18.16
102 P	naphthalene	4.427	3.882	12.3	79	0.00	18.14
103 P	2-Methylnaphthalene	2.637	2.187	17.1	74	0.00	19.50
104 P	1-Methylnaphthalene	2.017	1.654	18.0	73	0.00	19.75
105 P	1,2,3-trichlorobenzene	1.609	1.703	-5.8	96	0.00	18.34

(#) = Out of Range

U26292.D U150219w.m

SPCC's out = 5 CCC's out = 0

Fri Feb 20 14:28:07 2015

Initial Calibration Verification

Page 1 of 3

Job Number: MC37096

Sample: MSU1107-ICV1106

Account: SUNOCOSS Sunoco

Lab FileID: U26338.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U150223\U26338.D

Vial: 3

Acq On : 23 Feb 2015 9:23 am

Operator: GaryK

Sample : icv1106-50

Inst : MSU

Misc : ms33891,msu1107,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U150219w.m (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Fri Feb 20 11:18:57 2015

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	tert butyl alcohol-d9	1.000	1.000	0.0	158	-0.09	6.65
2 P	tertiary butyl alcohol	1.487	1.475	0.8	163	-0.08	6.73
3 P	Ethanol	0.083	0.107	-28.9#	201#	-0.14	5.65
4 I	pentafluorobenzene	1.000	1.000	0.0	105	0.00	8.95
5 P	dichlorodifluoromethane	0.642	0.715	-11.4	119	0.00	4.32
6 P	chloromethane	0.867	0.967	-11.5	126	0.00	4.55
7 P	vinyl chloride	0.726	0.830	-14.3	123	0.00	4.81
8 P	bromomethane	0.510	0.560	-9.8	122	0.00	5.28
9 P	chloroethane	0.306	0.346	-13.1	120	0.00	5.41
10 P	ethyl ether	0.402	0.415	-3.2	111	-0.01	6.27
----- Amount Calc. %Drift -----							
11 P	acetonitrile	50.000	59.537	-19.1	132	-0.02	6.07
----- AvgRF CCRF %Dev -----							
12 P	trichlorofluoromethane	0.926	1.104	-19.2	124	0.00	6.08
13 P	freon-113	0.725	0.743	-2.5	108	0.00	6.84
14 P	acrolein	0.000	0.001#	0.0	0#	0.00	6.04
15 P	1,1-dichloroethene	0.646	0.646	0.0	113	0.00	6.64
16 P	acetone	0.047	0.057#	-21.3#	126	-0.02	6.15
17 P	Methyl Acetate	0.713	0.604	15.3	96	-0.03	6.83
18 P	methylene chloride	0.648	0.676	-4.3	117	0.00	6.78
19 P	methyl tert butyl ether	1.454	1.463	-0.6	113	-0.01	7.55
20 P	acrylonitrile	0.215	0.230	-7.0	115	-0.05	6.71
21 P	allyl chloride	0.789	0.872	-10.5	114	0.00	6.86
22 P	trans-1,2-dichloroethene	0.587	0.542	7.7	108	0.00	7.45
23 P	iodomethane	1.240	1.314	-6.0	112	0.00	6.69
24 P	carbon disulfide	2.055	2.129	-3.6	110	0.00	7.07
25 P	propionitrile	0.043	0.041#	4.7	97	0.00	8.06
26 P	vinyl acetate	0.565	1.081	-91.3#	206#	-0.01	7.80
27 P	chloroprene	0.752	0.715	4.9	101	0.00	8.06
28 P	di-isopropyl ether	1.645	1.736	-5.5	113	0.00	8.10
29 P	methacrylonitrile	0.331	0.369	-11.5	122	-0.02	8.22
30 P	2-butanone	0.069	0.081#	-17.4	124	-0.07	8.11
31 P	Ethyl Acetate	1.472	1.739	-18.1	130	0.00	8.11
32 P	Hexane	0.760	0.821	-8.0	114	0.00	8.08
33 P	1,1-dichloroethane	0.933	0.859	7.9	104	0.00	7.70
34 P	tert-butyl ethyl ether	1.642	1.664	-1.3	109	0.00	8.50
----- Amount Calc. %Drift -----							
35 P	isobutyl alcohol	250.000	247.146	1.1	111	-0.02	8.50

Initial Calibration Verification

Page 2 of 3

Job Number: MC37096

Sample: MSU1107-ICV1106

Account: SUNOCOSS Sunoco

Lab FileID: U26338.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

		AvgRF	CCRF	%Dev			
36 P	2,2-dichloropropane	0.594	0.589	0.8	109	0.00	8.57
37 P	cis-1,2-dichloroethene	0.649	0.622	4.2	111	0.00	8.27
38 P	bromochloromethane	0.369	0.346	6.2	104	0.00	8.43
39 P	chloroform	0.990	0.933	5.8	106	0.00	8.47
40 S	dibromofluoromethane (s)	0.572	0.528	7.7	97	0.00	8.59
41 P	Tetrahydrofuran	0.172	0.201	-16.9	133	-0.04	8.82
42 P	1,1,1-trichloroethane	0.866	0.871	-0.6	111	0.00	9.23
43 I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	9.82
44 P	Cyclohexane	0.622	0.634	-1.9	109	0.00	9.52
45 P	carbon tetrachloride	0.506	0.503	0.6	110	0.00	9.59
46 P	1,1-dichloropropene	0.403	0.383	5.0	103	0.00	9.40
47 P	benzene	1.208	1.174	2.8	109	0.00	9.62
48 P	1,2-dichloroethane	0.471	0.431	8.5	104	-0.02	9.12
49 P	tert-amyl methyl ether	0.894	0.908	-1.6	112	0.00	9.75
50 P	heptane	0.364	0.435	-19.5	128	0.00	10.10
51 P	trichloroethene	0.372	0.392	-5.4	115	0.00	10.24
52 P	1,2-dichloropropane	0.299	0.302	-1.0	114	0.00	10.21
53 P	dibromomethane	0.224	0.222	0.9	110	0.00	10.18
54 P	bromodichloromethane	0.453	0.446	1.5	109	0.00	10.30
55 P	Methylcyclohexane	0.555	0.572	-3.1	111	0.00	10.77
56 P	2-chloroethyl vinyl ether	0.053	0.081	-52.8#	143	-0.01	10.68
57 P	methyl methacrylate	0.153	0.175	-14.4	127	0.00	10.40
58 P	1,4-dioxane	0.000	0.003#	0.0	0#	0.00	10.45
59 P	cis-1,3-dichloropropene	0.429	0.476	-11.0	122	0.00	10.92
60 S	toluene-d8 (s)	1.007	1.024	-1.7	108	0.00	11.62
61 P	4-methyl-2-pentanone	0.308	0.361	-17.2	136	-0.01	11.02
62 P	toluene	0.684	0.684	0.0	112	0.00	11.69
63 P	trans-1,3-dichloropropene	0.333	0.381	-14.4	124	0.00	11.34
64 P	1,1,2-trichloroethane	0.204	0.219	-7.4	119	0.00	11.51
65 P	ethyl methacrylate	0.272	0.315	-15.8	133	0.00	11.72
66 I	chlorobenzene-d5	1.000	1.000	0.0	112	0.00	13.08
67 P	tetrachloroethene	0.836	0.777	7.1	109	0.00	12.43
68 P	1,3-dichloropropane	0.898	0.973	-8.4	124	0.00	11.74
69 P	dibromochloromethane	0.933	0.912	2.3	114	0.00	12.03
70 P	1,2-dibromoethane	0.726	0.725	0.1	120	0.00	12.29
71 P	2-hexanone	0.504	0.599	-18.8	156	-0.02	11.87
72 P	chlorobenzene	2.172	1.934	11.0	108	0.00	13.11
73 P	1,1,1,2-tetrachloroethane	0.956	0.900	5.9	111	0.00	13.03
74 P	ethylbenzene	3.293	3.099	5.9	113	0.00	13.29
75 P	m,p-xylene	1.330	1.241	6.7	111	0.00	13.47
76 P	o-xylene	1.503	1.334	11.2	106	0.00	13.89
77 P	styrene	2.097	1.943	7.3	115	0.00	13.81
78 P	bromoform	0.576	0.543	5.7	116	0.00	13.64
79 P	trans-1,4-dichloro-2-bute	0.194	0.194	0.0	118	0.00	14.04
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	15.64
81 P	isopropylbenzene	3.050	3.147	-3.2	105	0.00	14.25
82 S	bromofluorobenzene (s)	0.703	0.745	-6.0	110	0.00	14.31
83 P	bromobenzene	0.779	0.815	-4.6	113	0.00	14.54
84 P	1,1,2,2-tetrachloroethane	0.722	0.742	-2.8	109	0.00	13.89
85 P	1,2,3-trichloropropane	0.712	0.826	-16.0	127	0.00	14.04
86 P	n-propylbenzene	3.208	3.258	-1.6	105	0.00	14.70
87 P	2-chlorotoluene	2.040	2.041	-0.0	105	0.00	14.81
88 P	4-chlorotoluene	1.909	1.947	-2.0	111	0.00	14.89
89 P	1,3,5-trimethylbenzene	2.740	2.991	-9.2	112	0.00	14.97
90 P	tert-butylbenzene	1.523	1.613	-5.9	106	0.00	15.28

6.7.3

6

Initial Calibration Verification

Page 3 of 3

Job Number: MC37096

Sample: MSU1107-ICV1106

Account: SUNOCOSS Sunoco

Lab FileID: U26338.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

91 P	1,2,4-trimethylbenzene	2.862	2.937	-2.6	107	0.00	15.38
92 P	sec-butylbenzene	3.634	3.769	-3.7	104	0.00	15.50
93 P	1,3-dichlorobenzene	1.617	1.546	4.4	104	0.00	15.60
94 P	p-isopropyltoluene	3.229	3.420	-5.9	107	0.00	15.68
95 P	1,4-dichlorobenzene	1.682	1.616	3.9	106	0.00	15.67
96 P	1,2-dichlorobenzene	1.843	1.747	5.2	104	0.00	16.04
97 P	n-butylbenzene	2.780	2.952	-6.2	110	0.00	16.09
98 P	1,2-dibromo-3-chloropropa	0.197	0.221	-12.2	135	0.00	16.52
99 P	1,3,5-trichlorobenzene	1.627	1.568	3.6	97	0.00	17.33
100 P	1,2,4-trichlorobenzene	1.817	1.698	6.5	104	0.00	17.87
101 P	hexachlorobutadiene	0.558	0.619	-10.9	113	0.00	18.16
102 P	naphthalene	4.427	4.839	-9.3	109	0.00	18.14
103 P	2-Methylnaphthalene	2.637	3.128	-18.6	116	0.00	19.50
104 P	1-Methylnaphthalene	2.017	2.508	-24.3#	122	0.00	19.74
105 P	1,2,3-trichlorobenzene	1.609	1.749	-8.7	108	0.00	18.34

(#) = Out of Range

U26292.D U150219w.m

SPCC's out = 5 CCC's out = 0

Tue Mar 03 09:22:04 2015

Continuing Calibration Summary

Page 1 of 3

Job Number: MC37096

Sample: MSU1116-CC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26570.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U150309\U26570.D

Vial: 3

Acq On : 9 Mar 2015 9:51 am

Operator: GaryK

Sample : cc1106-50

Inst : MSU

Misc : ms33941,msu1116,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U150219w.m (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Fri Feb 20 11:18:57 2015

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	tert butyl alcohol-d9	1.000	1.000	0.0	146	-0.09	6.65
2 P	tertiary butyl alcohol	1.487	1.212	18.5	124	-0.12	6.69
3 P	Ethanol	0.083	0.103	-24.1#	180	-0.13	5.66
4 I	pentafluorobenzene	1.000	1.000	0.0	105	0.00	8.95
5 P	dichlorodifluoromethane	0.642	0.900	-40.2#	150	0.02	4.34
6 P	chloromethane	0.867	1.051	-21.2#	137	0.02	4.57
7 P	vinyl chloride	0.726	0.871	-20.0	130	0.03	4.83
8 P	bromomethane	0.510	0.583	-14.3	128	0.03	5.30
9 P	chloroethane	0.306	0.370	-20.9#	129	0.06	5.47
10 P	ethyl ether	0.402	0.404	-0.5	109	-0.01	6.27
----- Amount Calc. %Drift -----							
11 P	acetonitrile	50.000	41.541	16.9	96	-0.03	6.06
----- AvgRF CCRF %Dev -----							
12 P	trichlorofluoromethane	0.926	1.032	-11.4	117	0.12	6.20
13 P	freon-113	0.725	0.439	39.4#	64	0.14	6.98
14 P	acrolein	-----NA-----					
15 P	1,1-dichloroethene	0.646	0.578	10.5	102	0.15	6.78
16 P	acetone	0.047	0.086#	-83.0#	190	0.00	6.16
17 P	Methyl Acetate	0.713	0.566	20.6#	90	-0.03	6.83
18 P	methylene chloride	0.648	0.653	-0.8	113	0.06	6.83
19 P	methyl tert butyl ether	1.454	1.376	5.4	107	-0.01	7.55
20 P	acrylonitrile	0.215	0.197	8.4	99	-0.05	6.70
21 P	allyl chloride	0.789	0.846	-7.2	111	0.04	6.91
22 P	trans-1,2-dichloroethene	0.587	0.528	10.1	106	0.01	7.47
23 P	iodomethane	1.240	1.206	2.7	103	0.07	6.76
24 P	carbon disulfide	2.055	1.811	11.9	94	0.07	7.14
25 P	propionitrile	0.043	0.039#	9.3	92	0.00	8.06
26 P	vinyl acetate	0.565	1.078	-90.8#	206#	-0.01	7.80
27 P	chloroprene	0.752	0.697	7.3	99	0.00	8.06
28 P	di-isopropyl ether	1.645	1.664	-1.2	109	0.00	8.10
29 P	methacrylonitrile	0.331	0.356	-7.6	118	-0.02	8.22
30 P	2-butanone	0.069	0.094#	-36.2#	146	-0.06	8.11
31 P	Ethyl Acetate	1.472	1.750	-18.9	131	0.00	8.11
32 P	Hexane	0.760	0.793	-4.3	110	0.00	8.08
33 P	1,1-dichloroethane	0.933	0.840	10.0	102	0.00	7.70
34 P	tert-butyl ethyl ether	1.642	1.588	3.3	105	0.00	8.50
----- Amount Calc. %Drift -----							
35 P	isobutyl alcohol	250.000	294.544	-17.8	131	0.00	8.52

Continuing Calibration Summary

Page 2 of 3

Job Number: MC37096

Sample: MSU1116-CC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26570.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

		AvgRF	CCRF	%Dev			
36 P	2,2-dichloropropane	0.594	0.477	19.7	88	0.00	8.57
37 P	cis-1,2-dichloroethene	0.649	0.597	8.0	107	0.00	8.27
38 P	bromochloromethane	0.369	0.330	10.6	99	-0.01	8.43
39 P	chloroform	0.990	0.924	6.7	106	0.00	8.47
40 S	dibromofluoromethane (s)	0.572	0.529	7.5	98	0.00	8.59
41 P	Tetrahydrofuran	0.172	0.188	-9.3	125	-0.03	8.83
42 P	1,1,1-trichloroethane	0.866	0.675	22.1#	86	0.01	9.24
43 I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	9.82
44 P	Cyclohexane	0.622	0.389	37.5#	66	0.02	9.54
45 P	carbon tetrachloride	0.506	0.406	19.8	88	0.00	9.60
46 P	1,1-dichloropropene	0.403	0.384	4.7	102	0.00	9.40
47 P	benzene	1.208	1.161	3.9	107	0.00	9.62
48 P	1,2-dichloroethane	0.471	0.462	1.9	110	0.00	9.13
49 P	tert-amyl methyl ether	0.894	0.890	0.4	109	0.00	9.75
50 P	heptane	0.364	0.435	-19.5	127	0.00	10.10
51 P	trichloroethene	0.372	0.380	-2.2	111	0.00	10.24
52 P	1,2-dichloropropane	0.299	0.300	-0.3	113	0.00	10.21
53 P	dibromomethane	0.224	0.219	2.2	107	0.00	10.18
54 P	bromodichloromethane	0.453	0.450	0.7	109	0.00	10.30
55 P	Methylcyclohexane	0.555	0.427	23.1#	82	0.00	10.77
56 P	2-chloroethyl vinyl ether	0.053	0.080	-50.9#	140	0.00	10.68
57 P	methyl methacrylate	0.153	0.169	-10.5	122	0.00	10.40
58 P	1,4-dioxane	0.000	0.002#	0.0	0#	-0.04	10.41
59 P	cis-1,3-dichloropropene	0.429	0.476	-11.0	121	0.00	10.92
60 S	toluene-d8 (s)	1.007	1.028	-2.1	108	0.00	11.62
61 P	4-methyl-2-pentanone	0.308	0.371	-20.5#	139	-0.01	11.02
62 P	toluene	0.684	0.685	-0.1	112	0.00	11.69
63 P	trans-1,3-dichloropropene	0.333	0.377	-13.2	122	0.00	11.34
64 P	1,1,2-trichloroethane	0.204	0.214	-4.9	116	0.00	11.51
65 P	ethyl methacrylate	0.272	0.303	-11.4	126	0.00	11.72
66 I	chlorobenzene-d5	1.000	1.000	0.0	109	0.00	13.08
67 P	tetrachloroethene	0.836	0.790	5.5	108	0.00	12.43
68 P	1,3-dichloropropane	0.898	0.981	-9.2	122	0.00	11.74
69 P	dibromochloromethane	0.933	0.920	1.4	112	0.00	12.03
70 P	1,2-dibromoethane	0.726	0.724	0.3	116	0.00	12.29
71 P	2-hexanone	0.504	0.813	-61.3#	206#	-0.01	11.88
72 P	chlorobenzene	2.172	1.917	11.7	105	0.00	13.11
73 P	1,1,1,2-tetrachloroethane	0.956	0.893	6.6	107	0.00	13.03
74 P	ethylbenzene	3.293	3.109	5.6	111	0.00	13.29
75 P	m,p-xylene	1.330	1.240	6.8	108	0.00	13.47
76 P	o-xylene	1.503	1.314	12.6	102	0.00	13.89
77 P	styrene	2.097	1.902	9.3	109	0.00	13.81
78 P	bromoform	0.576	0.535	7.1	111	0.00	13.64
79 P	trans-1,4-dichloro-2-bute	0.194	0.181	6.7	107	0.00	14.04
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	15.64
81 P	isopropylbenzene	3.050	3.172	-4.0	101	0.00	14.25
82 S	bromofluorobenzene (s)	0.703	0.760	-8.1	108	0.00	14.31
83 P	bromobenzene	0.779	0.802	-3.0	106	0.00	14.54
84 P	1,1,2,2-tetrachloroethane	0.722	0.767	-6.2	108	0.00	13.89
85 P	1,2,3-trichloropropane	0.712	0.793	-11.4	116	0.00	14.04
86 P	n-propylbenzene	3.208	3.312	-3.2	102	0.00	14.70
87 P	2-chlorotoluene	2.040	2.067	-1.3	102	0.00	14.81
88 P	4-chlorotoluene	1.909	1.964	-2.9	107	0.00	14.89
89 P	1,3,5-trimethylbenzene	2.740	3.023	-10.3	108	0.00	14.97
90 P	tert-butylbenzene	1.523	1.656	-8.7	104	0.00	15.28

6.7.4

6

Continuing Calibration Summary

Page 3 of 3

Job Number: MC37096

Sample: MSU1116-CC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26570.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

91 P	1,2,4-trimethylbenzene	2.862	2.952	-3.1	103	0.00	15.38
92 P	sec-butylbenzene	3.634	3.851	-6.0	101	0.00	15.50
93 P	1,3-dichlorobenzene	1.617	1.553	4.0	100	0.00	15.60
94 P	p-isopropyltoluene	3.229	3.481	-7.8	104	0.00	15.67
95 P	1,4-dichlorobenzene	1.682	1.612	4.2	101	0.00	15.67
96 P	1,2-dichlorobenzene	1.843	1.741	5.5	99	0.00	16.04
97 P	n-butylbenzene	2.780	2.999	-7.9	107	0.00	16.09
98 P	1,2-dibromo-3-chloropropa	0.197	0.219	-11.2	128	0.00	16.52
99 P	1,3,5-trichlorobenzene	1.627	1.620	0.4	96	0.00	17.33
100 P	1,2,4-trichlorobenzene	1.817	1.747	3.9	103	0.00	17.87
101 P	hexachlorobutadiene	0.558	0.668	-19.7	116	0.00	18.16
102 P	naphthalene	4.427	4.911	-10.9	105	0.00	18.13
103 P	2-Methylnaphthalene	2.637	3.339	-26.6#	118	0.00	19.50
104 P	1-Methylnaphthalene	2.017	2.731	-35.4#	127	0.00	19.74
105 P	1,2,3-trichlorobenzene	1.609	1.779	-10.6	105	0.00	18.34

(#) = Out of Range

SPCC's out = 5 CCC's out = 0

U26292.D U150219w.m

Mon Mar 09 11:01:41 2015

Continuing Calibration Summary

Page 1 of 3

Job Number: MC37096

Sample: MSU1117-CC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26601.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U150310\U26601.D

Vial: 3

Acq On : 10 Mar 2015 9:56 am

Operator: GaryK

Sample : cc1106-50

Inst : MSU

Misc : ms33945,msu1117,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U150219w.m (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Fri Feb 20 11:18:57 2015

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	tert butyl alcohol-d9	1.000	1.000	0.0	102	-0.01	6.73
2 P	tertiary butyl alcohol	1.487	1.496	-0.6	106	0.00	6.80
3 P	Ethanol	0.083	0.104	-25.3#	126	-0.04	5.75
4 I	pentafluorobenzene	1.000	1.000	0.0	99	0.00	8.96
5 P	dichlorodifluoromethane	0.642	0.924	-43.9#	144	0.02	4.34
6 P	chloromethane	0.867	1.044	-20.4#	127	0.01	4.56
7 P	vinyl chloride	0.726	0.888	-22.3#	124	0.02	4.83
8 P	bromomethane	0.510	0.596	-16.9	122	0.02	5.30
9 P	chloroethane	0.306	0.366	-19.6	119	0.05	5.46
10 P	ethyl ether	0.402	0.383	4.7	96	0.00	6.28
----- Amount Calc. %Drift -----							
11 P	acetonitrile	50.000	50.566	-1.1	107	0.01	6.10
----- AvgRF CCRF %Dev -----							
12 P	trichlorofluoromethane	0.926	1.025	-10.7	109	0.12	6.20
13 P	freon-113	0.725	0.451	37.8#	62	0.14	6.98
14 P	acrolein	-----NA-----					
15 P	1,1-dichloroethene	0.646	0.595	7.9	98	0.14	6.78
16 P	acetone	0.047	0.042#	10.6	87	0.00	6.17
17 P	Methyl Acetate	0.713	0.507	28.9#	76	0.00	6.86
18 P	methylene chloride	0.648	0.651	-0.5	106	0.05	6.83
19 P	methyl tert butyl ether	1.454	1.352	7.0	98	0.00	7.56
20 P	acrylonitrile	0.215	0.196	8.8	92	0.00	6.76
21 P	allyl chloride	0.789	0.851	-7.9	105	0.03	6.90
22 P	trans-1,2-dichloroethene	0.587	0.534	9.0	100	0.00	7.46
23 P	iodomethane	1.240	1.234	0.5	99	0.07	6.76
24 P	carbon disulfide	2.055	1.856	9.7	90	0.07	7.14
25 P	propionitrile	0.043	0.043#	0.0	95	0.00	8.06
26 P	vinyl acetate	0.565	0.998	-76.6#	179	0.00	7.81
27 P	chloroprene	0.752	0.715	4.9	95	0.00	8.06
28 P	di-isopropyl ether	1.645	1.655	-0.6	102	0.00	8.11
29 P	methacrylonitrile	0.331	0.294	11.2	91	0.00	8.23
30 P	2-butanone	0.069	0.074#	-7.2	107	-0.04	8.13
31 P	Ethyl Acetate	1.472	1.578	-7.2	111	0.00	8.11
32 P	Hexane	0.760	0.804	-5.8	105	0.00	8.09
33 P	1,1-dichloroethane	0.933	0.848	9.1	96	0.00	7.70
34 P	tert-butyl ethyl ether	1.642	1.567	4.6	97	0.00	8.50
----- Amount Calc. %Drift -----							
35 P	isobutyl alcohol	250.000	264.743	-5.9	111	0.00	8.53

Continuing Calibration Summary

Page 2 of 3

Job Number: MC37096

Sample: MSU1117-CC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26601.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

		AvgRF	CCRF	%Dev			
36 P	2,2-dichloropropane	0.594	0.492	17.2	85	0.00	8.57
37 P	cis-1,2-dichloroethene	0.649	0.599	7.7	101	0.00	8.27
38 P	bromochloromethane	0.369	0.329	10.8	93	0.00	8.44
39 P	chloroform	0.990	0.937	5.4	100	0.00	8.48
40 S	dibromofluoromethane (s)	0.572	0.557	2.6	97	0.00	8.60
41 P	Tetrahydrofuran	0.172	0.155	9.9	97	0.00	8.85
42 P	1,1,1-trichloroethane	0.866	0.700	19.2	84	0.01	9.24
43 I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00	9.82
44 P	Cyclohexane	0.622	0.406	34.7#	64	0.02	9.54
45 P	carbon tetrachloride	0.506	0.427	15.6	86	0.00	9.60
46 P	1,1-dichloropropene	0.403	0.395	2.0	97	0.00	9.40
47 P	benzene	1.208	1.174	2.8	100	0.00	9.62
48 P	1,2-dichloroethane	0.471	0.464	1.5	102	0.00	9.14
49 P	tert-amyl methyl ether	0.894	0.880	1.6	100	0.00	9.75
50 P	heptane	0.364	0.442	-21.4#	119	0.00	10.10
51 P	trichloroethene	0.372	0.380	-2.2	103	0.00	10.24
52 P	1,2-dichloropropane	0.299	0.294	1.7	102	0.00	10.21
53 P	dibromomethane	0.224	0.208	7.1	95	0.00	10.19
54 P	bromodichloromethane	0.453	0.445	1.8	100	0.00	10.30
55 P	Methylcyclohexane	0.555	0.458	17.5	82	0.00	10.77
56 P	2-chloroethyl vinyl ether	0.053	0.053	0.0	86	0.00	10.69
57 P	methyl methacrylate	0.153	0.144	5.9	96	0.00	10.41
58 P	1,4-dioxane	0.000	0.002#	0.0	0#	0.02	10.48
59 P	cis-1,3-dichloropropene	0.429	0.455	-6.1	107	0.00	10.92
60 S	toluene-d8 (s)	1.007	1.016	-0.9	98	0.00	11.62
61 P	4-methyl-2-pentanone	0.308	0.325	-5.5	113	0.00	11.03
62 P	toluene	0.684	0.675	1.3	102	0.00	11.69
63 P	trans-1,3-dichloropropene	0.333	0.346	-3.9	104	0.00	11.34
64 P	1,1,2-trichloroethane	0.204	0.198	2.9	99	0.00	11.51
65 P	ethyl methacrylate	0.272	0.270	0.7	104	0.00	11.72
66 I	chlorobenzene-d5	1.000	1.000	0.0	97	0.00	13.08
67 P	tetrachloroethene	0.836	0.806	3.6	99	0.00	12.43
68 P	1,3-dichloropropane	0.898	0.925	-3.0	103	0.00	11.75
69 P	dibromochloromethane	0.933	0.897	3.9	98	0.00	12.04
70 P	1,2-dibromoethane	0.726	0.666	8.3	96	0.00	12.29
71 P	2-hexanone	0.504	0.665	-31.9#	150	0.00	11.90
72 P	chlorobenzene	2.172	1.919	11.6	94	0.00	13.11
73 P	1,1,1,2-tetrachloroethane	0.956	0.933	2.4	100	0.00	13.03
74 P	ethylbenzene	3.293	3.162	4.0	101	0.00	13.29
75 P	m,p-xylene	1.330	1.260	5.3	98	0.00	13.47
76 P	o-xylene	1.503	1.368	9.0	95	0.00	13.89
77 P	styrene	2.097	1.854	11.6	95	0.00	13.81
78 P	bromoform	0.576	0.495	14.1	92	0.00	13.64
79 P	trans-1,4-dichloro-2-bute	0.194	0.148	23.7#	79	0.00	14.04
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	15.64
81 P	isopropylbenzene	3.050	3.417	-12.0	96	0.00	14.25
82 S	bromofluorobenzene (s)	0.703	0.739	-5.1	92	0.00	14.31
83 P	bromobenzene	0.779	0.794	-1.9	93	0.00	14.54
84 P	1,1,2,2-tetrachloroethane	0.722	0.823	-14.0	102	0.00	13.89
85 P	1,2,3-trichloropropane	0.712	0.715	-0.4	92	0.00	14.04
86 P	n-propylbenzene	3.208	3.469	-8.1	94	0.00	14.70
87 P	2-chlorotoluene	2.040	2.143	-5.0	93	0.00	14.81
88 P	4-chlorotoluene	1.909	1.953	-2.3	94	0.00	14.89
89 P	1,3,5-trimethylbenzene	2.740	3.234	-18.0	102	0.00	14.97
90 P	tert-butylbenzene	1.523	1.805	-18.5	100	0.00	15.28

6.7.5

6

Continuing Calibration Summary

Page 3 of 3

Job Number: MC37096

Sample: MSU1117-CC1106

Account: SUNOCOSS Sunoco

Lab FileID: U26601.D

Project: MATNYOP: DUNS#00030387, Former Sunoco Station, 905 Elmwood Avenue, Buffalo, NY

91 P	1,2,4-trimethylbenzene	2.862	3.131	-9.4	96	0.00	15.38
92 P	sec-butylbenzene	3.634	4.199	-15.5	98	0.00	15.50
93 P	1,3-dichlorobenzene	1.617	1.560	3.5	89	0.00	15.60
94 P	p-isopropyltoluene	3.229	3.772	-16.8	100	0.00	15.67
95 P	1,4-dichlorobenzene	1.682	1.608	4.4	89	0.00	15.67
96 P	1,2-dichlorobenzene	1.843	1.761	4.4	88	0.00	16.04
97 P	n-butylbenzene	2.780	3.189	-14.7	100	0.00	16.09
98 P	1,2-dibromo-3-chloropropa	0.197	0.187	5.1	96	0.00	16.52
99 P	1,3,5-trichlorobenzene	1.627	1.668	-2.5	87	0.00	17.33
100 P	1,2,4-trichlorobenzene	1.817	1.801	0.9	93	0.00	17.87
101 P	hexachlorobutadiene	0.558	0.686	-22.9#	105	0.00	18.16
102 P	naphthalene	4.427	4.763	-7.6	90	0.00	18.13
103 P	2-Methylnaphthalene	2.637	3.386	-28.4#	106	0.00	19.50
104 P	1-Methylnaphthalene	2.017	2.734	-35.5#	112	0.00	19.74
105 P	1,2,3-trichlorobenzene	1.609	1.853	-15.2	97	0.00	18.34

(#) = Out of Range

SPCC's out = 5 CCC's out = 0

U26292.D U150219w.m

Tue Mar 10 12:15:43 2015

GC/MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26592.D
Acq On : 9 Mar 2015 7:57 pm
Operator : GaryK
Sample : mc37096-1
Misc : ms33945,msu1116,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 10 09:32:19 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.641	65	255245	500.00	ppb	-0.10
4) pentafluorobenzene	8.959	168	473227	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.826	114	733846	50.00	ppb	0.00
66) chlorobenzene-d5	13.085	82	252550	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.648	152	315939	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.597	113	246992	45.62	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.24%		
60) toluene-d8 (s)	11.624	98	707297	47.86	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.72%		
82) bromofluorobenzene (s)	14.314	95	226684	51.06	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	102.12%		
Target Compounds						
75) m,p-xylene	13.518	106	1698	0.25	ppb	86
76) o-xylene	13.910	106	1685	0.22	ppb	# 77
102) naphthalene	18.151	128	26918	0.96	ppb	100
103) 2-Methylnaphthalene	19.515	142	16314	0.98	ug/L	91
104) 1-Methylnaphthalene	19.749	142	11611	0.91	ug/L	88

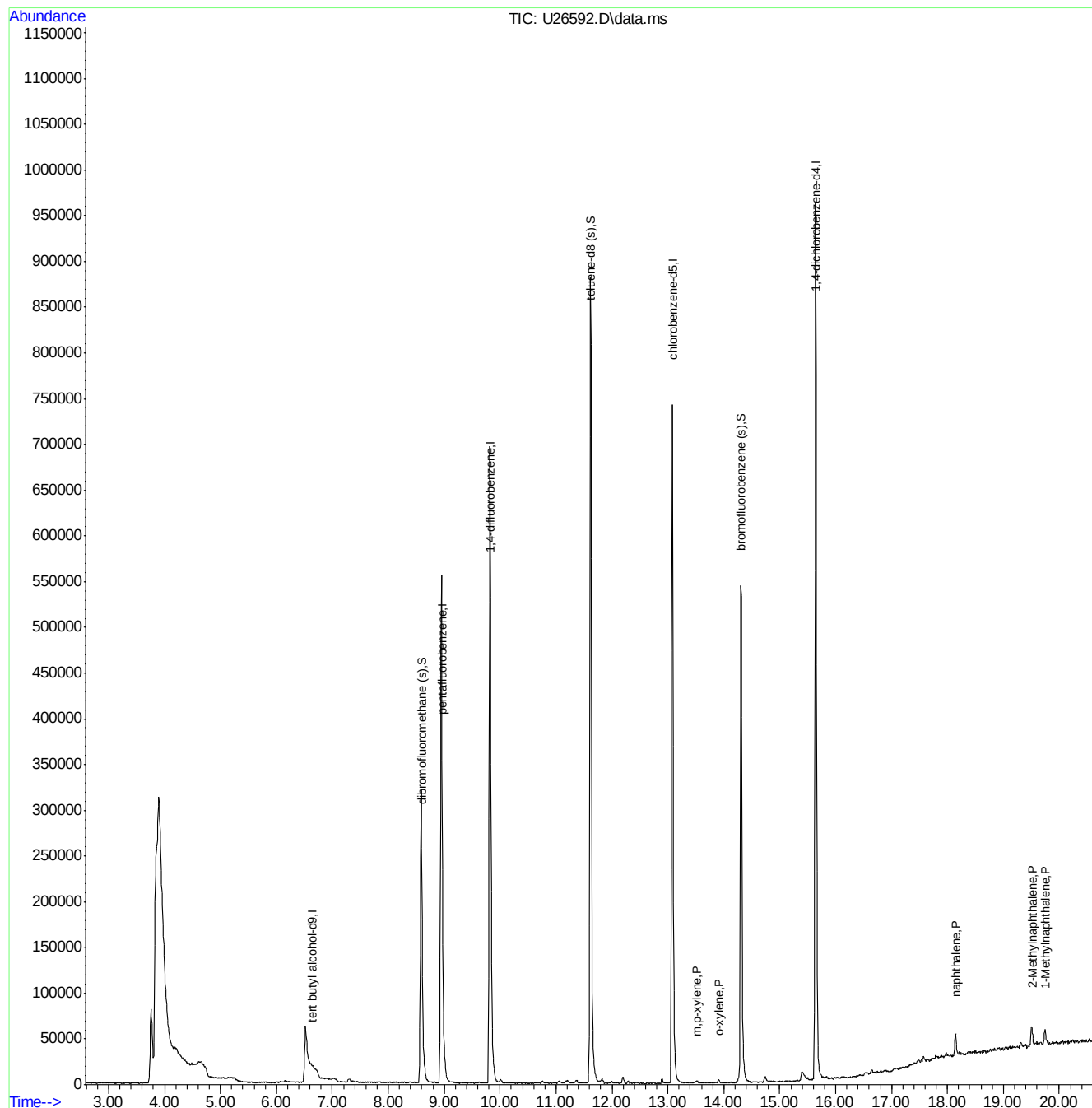
(#) = qualifier out of range (m) = manual integration (+) = signals summed

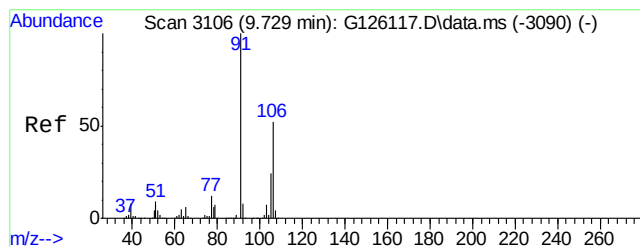
7.1.1
7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26592.D
 Acq On : 9 Mar 2015 7:57 pm
 Operator : GaryK
 Sample : mc37096-1
 Misc : ms33945,msu1116,,,,5,1
 ALS Vial : 25 Sample Multiplier: 1

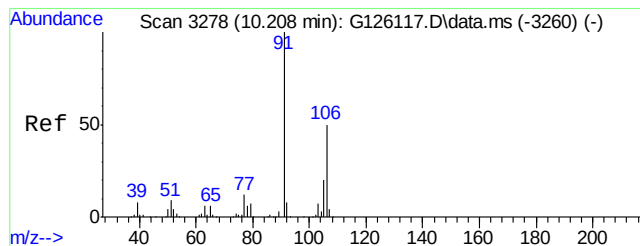
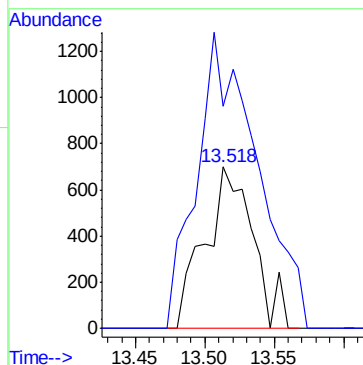
Quant Time: Mar 10 09:32:19 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration





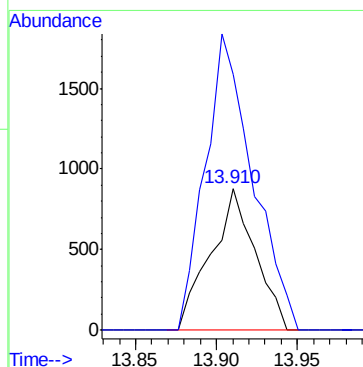
#75
m,p-xylene
Concen: 0.25 ppb
RT: 13.518 min Scan# 1627
Delta R.T. 0.042 min
Lab File: U26592.D
Acq: 9 Mar 2015 7:57 pm

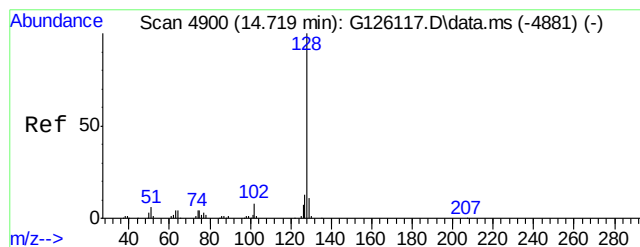
Tgt Ion:106 Resp: 1698
Ion Ratio Lower Upper
106 100
91 189.1 180.7 240.7



#76
o-xylene
Concen: 0.22 ppb
RT: 13.910 min Scan# 1685
Delta R.T. 0.021 min
Lab File: U26592.D
Acq: 9 Mar 2015 7:57 pm

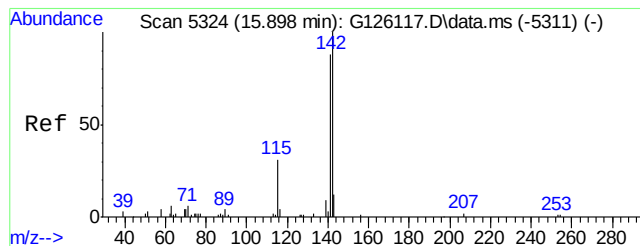
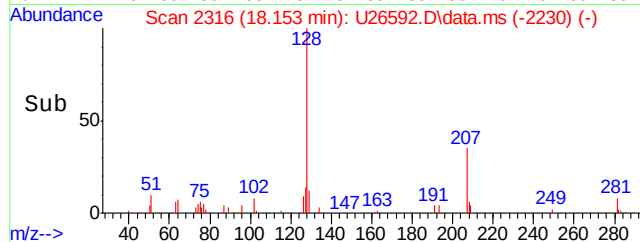
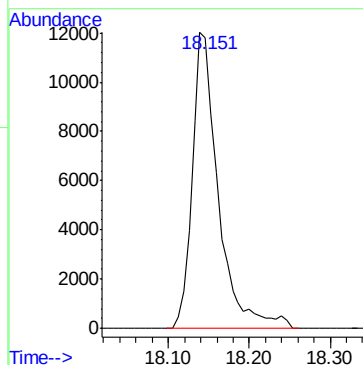
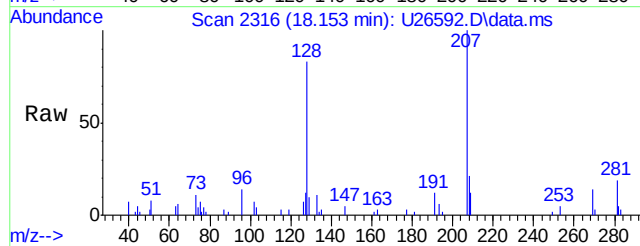
Tgt Ion:106 Resp: 1685
Ion Ratio Lower Upper
106 100
91 181.2 188.5 248.5#





#102
naphthalene
Concen: 0.96 ppb
RT: 18.151 min Scan# 2316
Delta R.T. 0.014 min
Lab File: U26592.D
Acq: 9 Mar 2015 7:57 pm

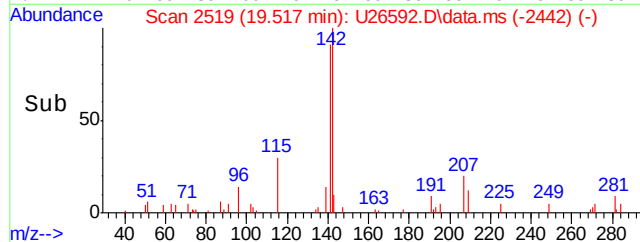
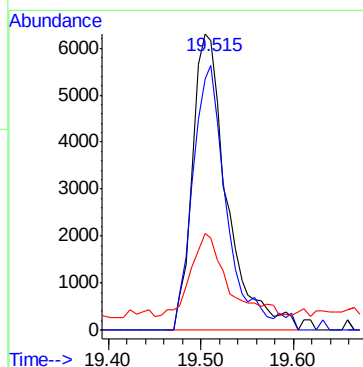
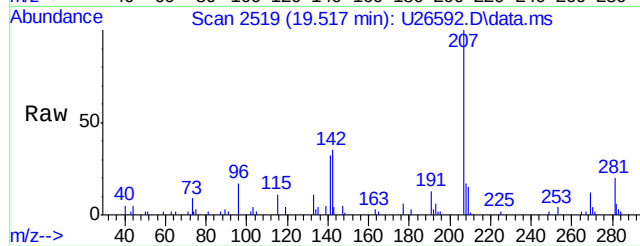
Tgt Ion:128 Resp: 26918

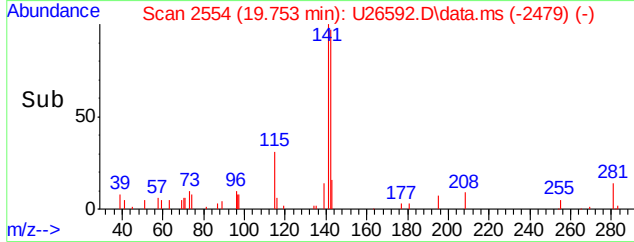
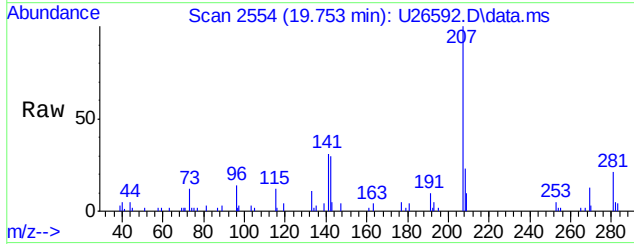
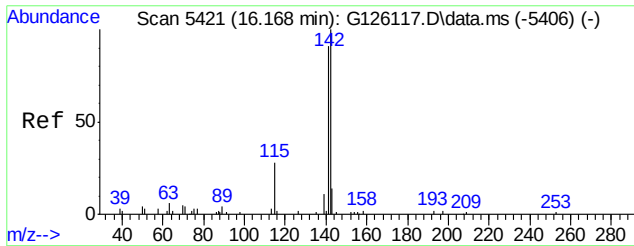


#103
2-Methylnaphthalene
Concen: 0.98 ug/L
RT: 19.515 min Scan# 2519
Delta R.T. 0.014 min
Lab File: U26592.D
Acq: 9 Mar 2015 7:57 pm

Tgt Ion:142 Resp: 16314

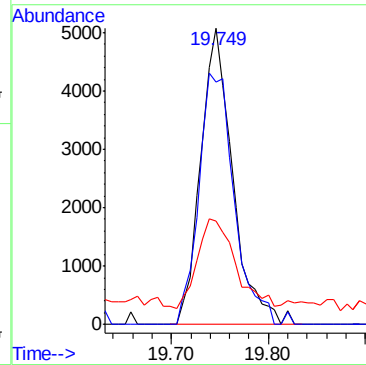
Ion	Ratio	Lower	Upper
142	100		
141	91.0	67.9	107.9
115	22.7	15.5	55.5





#104
1-Methylnaphthalene
Concen: 0.91 ug/L
RT: 19.749 min Scan# 2554
Delta R.T. 0.002 min
Lab File: U26592.D
Acq: 9 Mar 2015 7:57 pm

Tgt Ion:	142	Resp:	11611
Ion Ratio	Lower	Upper	
142	100		
141	102.7	72.6	108.8
115	30.9	29.2	43.8



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26613.D
 Acq On : 10 Mar 2015 3:22 pm
 Operator : GaryK
 Sample : mc37096-2
 Misc : ms33945,msu1117,,,,5,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 10 16:38:56 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.742	65	129750	500.00	ppb	0.00
4) pentafluorobenzene	8.962	168	374454	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.830	114	586032	50.00	ppb	0.00
66) chlorobenzene-d5	13.087	82	200384	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.649	152	270625	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.604	113	223807	52.24	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	104.48%		
60) toluene-d8 (s)	11.627	98	562724	47.68	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.36%		
82) bromofluorobenzene (s)	14.316	95	180685	47.51	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.02%		

Target Compounds Qvalue

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

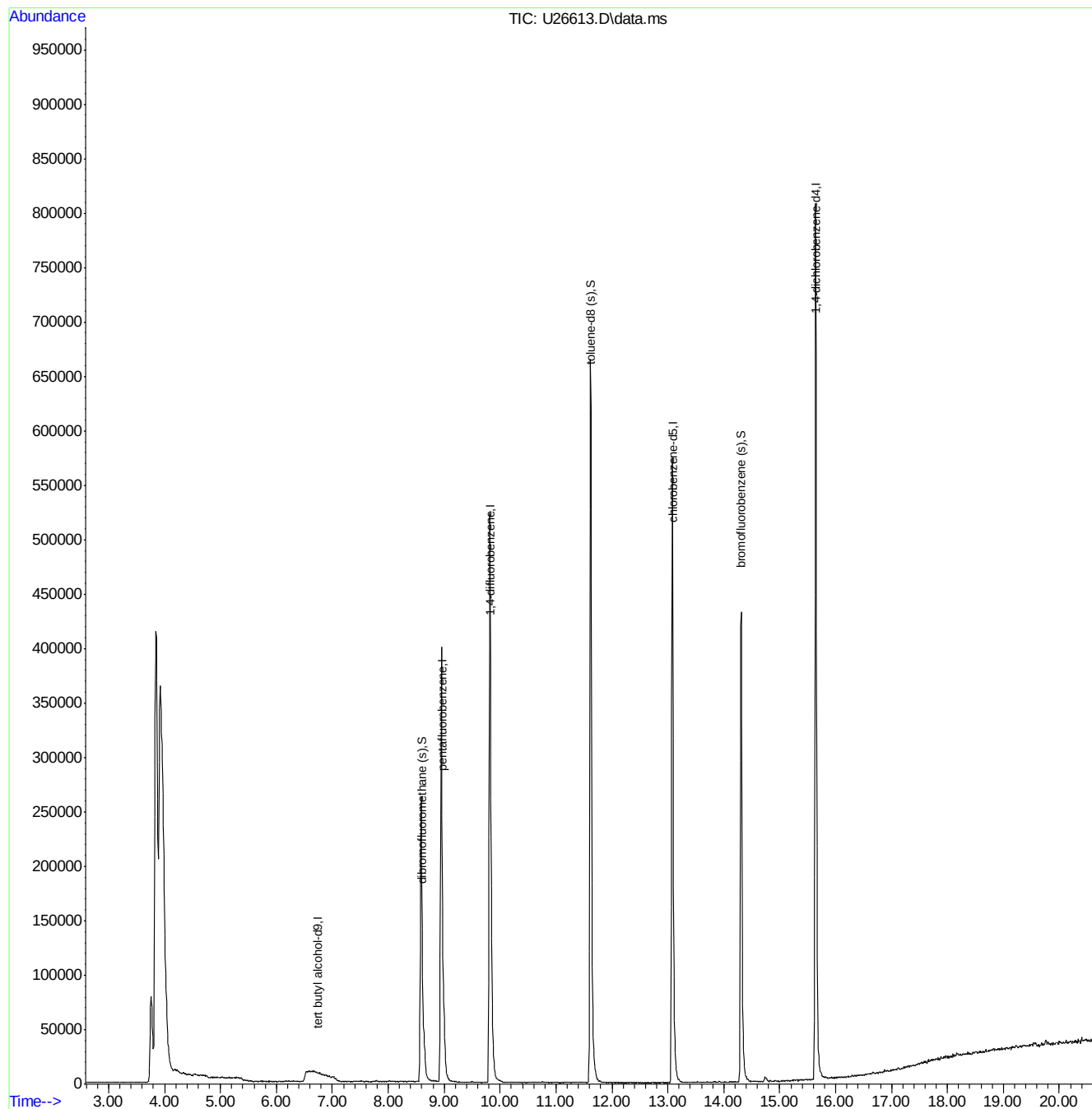
7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26613.D
Acq On : 10 Mar 2015 3:22 pm
Operator : GaryK
Sample : mc37096-2
Misc : ms33945,msu1117,,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 10 16:38:56 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26576.D
Acq On : 9 Mar 2015 12:38 pm
Operator : GaryK
Sample : mc37096-3
Misc : ms33945,msu1116,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 15:09:40 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.666	65	159910	500.00	ppb	-0.07
4) pentafluorobenzene	8.959	168	416857	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.827	114	654399	50.00	ppb	0.00
66) chlorobenzene-d5	13.086	82	223581	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.650	152	296300	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.596	113	230052	48.24	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.48%		
60) toluene-d8 (s)	11.625	98	628554	47.69	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.38%		
82) bromofluorobenzene (s)	14.316	95	199960	48.02	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.04%		
Target Compounds						
6) chloromethane	4.539	50	1840	0.25	ppb	Qvalue 76
16) acetone	6.164	58	562	1.44	ppb	# 27

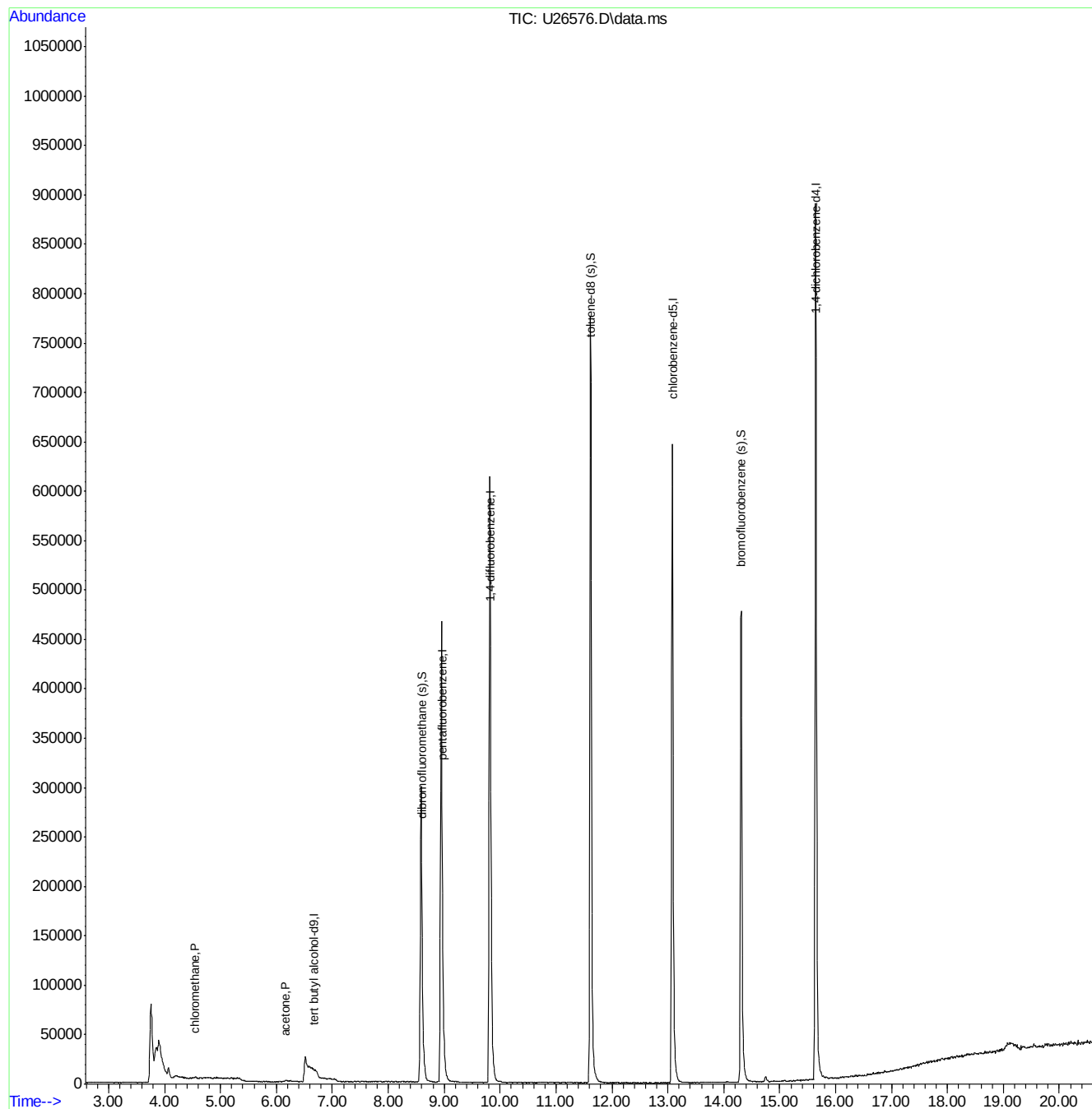
(#) = qualifier out of range (m) = manual integration (+) = signals summed

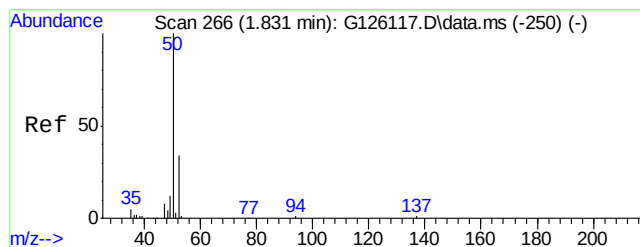
7.1.3
7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26576.D
Acq On : 9 Mar 2015 12:38 pm
Operator : GaryK
Sample : mc37096-3
Misc : ms33945,msu1116,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

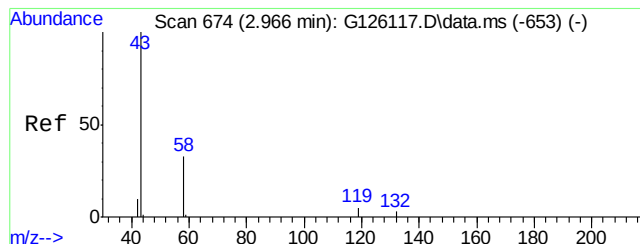
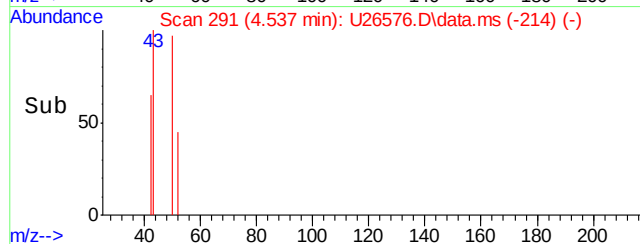
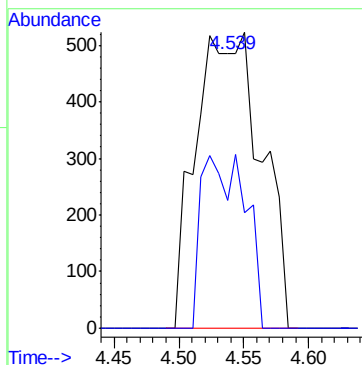
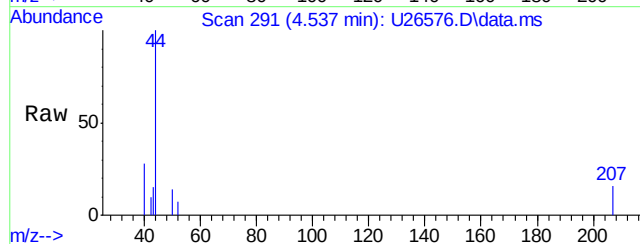
Quant Time: Mar 09 15:09:40 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration





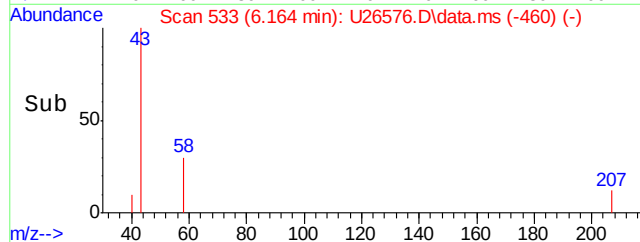
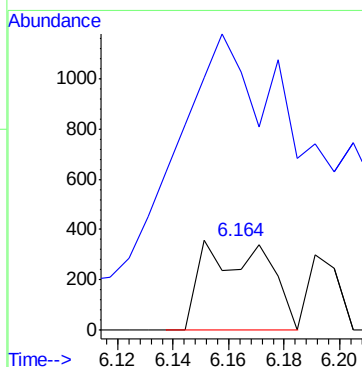
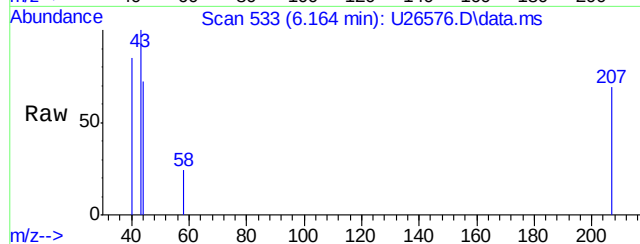
#6
chloromethane
Concen: 0.25 ppb
RT: 4.539 min Scan# 291
Delta R.T. -0.009 min
Lab File: U26576.D
Acq: 9 Mar 2015 12:38 pm

Tgt Ion: 50 Resp: 1840
Ion Ratio Lower Upper
50 100
52 46.3 2.6 62.6



#16
acetone
Concen: 1.44 ppb
RT: 6.164 min Scan# 533
Delta R.T. -0.007 min
Lab File: U26576.D
Acq: 9 Mar 2015 12:38 pm

Tgt Ion: 58 Resp: 562
Ion Ratio Lower Upper
58 100
43 163.2 278.8 338.8#



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26575.D
 Acq On : 9 Mar 2015 12:11 pm
 Operator : GaryK
 Sample : mc37096-4
 Misc : ms33945,msu1116,,,,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 15:08:56 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.734	65	127106	500.00	ppb	0.00
4) pentafluorobenzene	8.960	168	373884	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.828	114	572500	50.00	ppb	0.00
66) chlorobenzene-d5	13.087	82	195670	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.651	152	278746	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.600	113	229506	53.65	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.30%		
60) toluene-d8 (s)	11.626	98	554936	48.13	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.26%		
82) bromofluorobenzene (s)	14.317	95	182393	46.56	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.12%		
Target Compounds						Qvalue
6) chloromethane	4.536	50	2247	0.35	ppb	98
24) carbon disulfide	7.051	76	3975	0.26	ppb	76

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

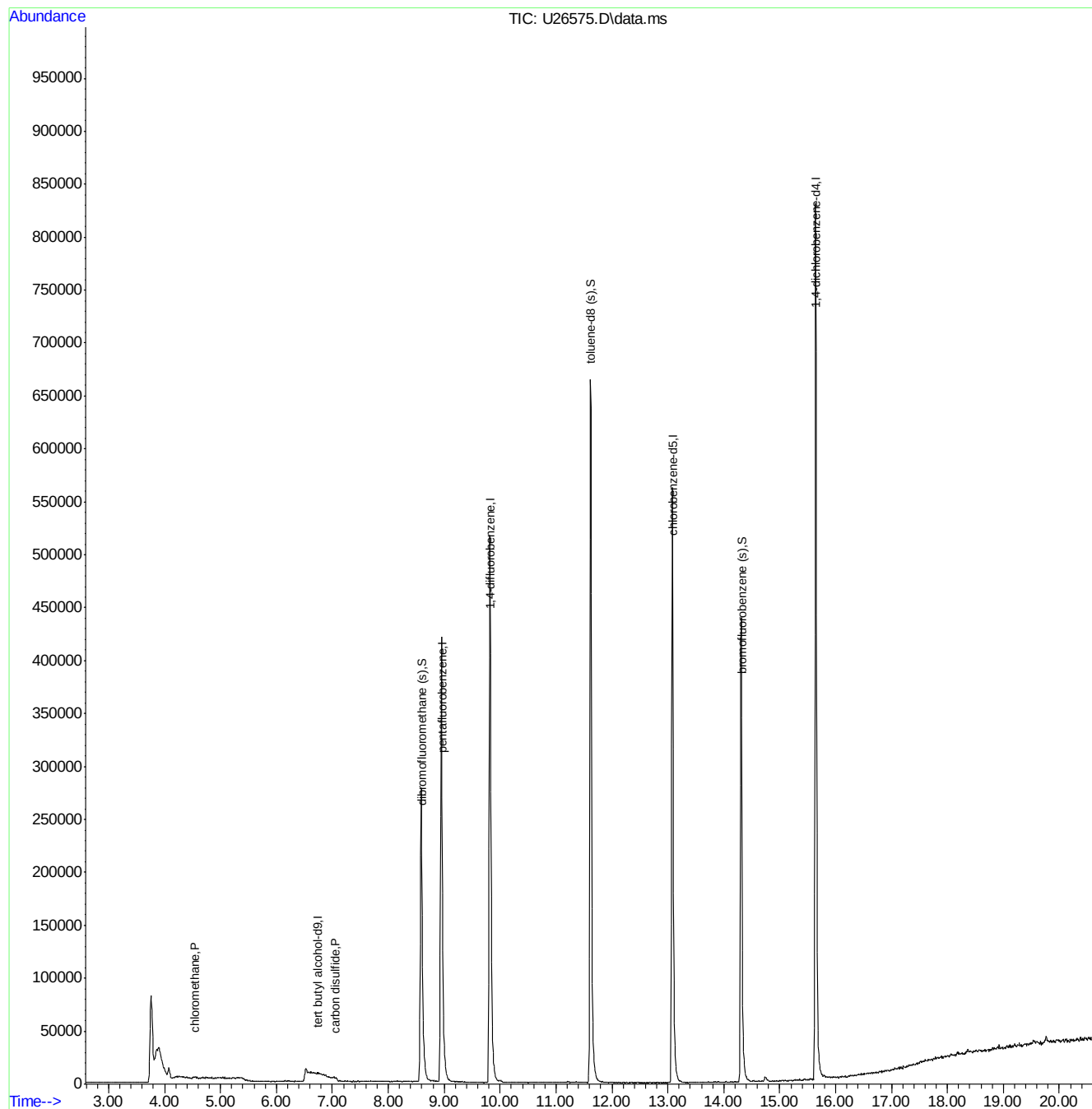
7.1.4

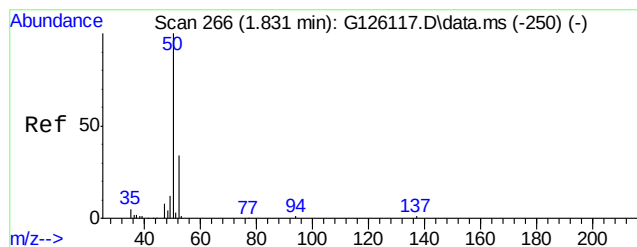
7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26575.D
Acq On : 9 Mar 2015 12:11 pm
Operator : GaryK
Sample : mc37096-4
Misc : ms33945,msu1116,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

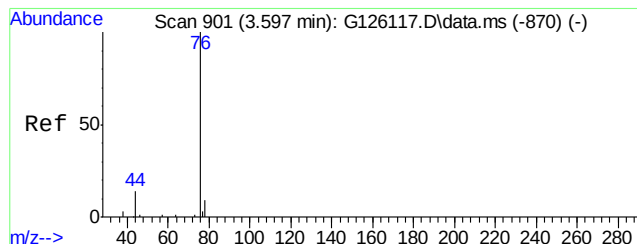
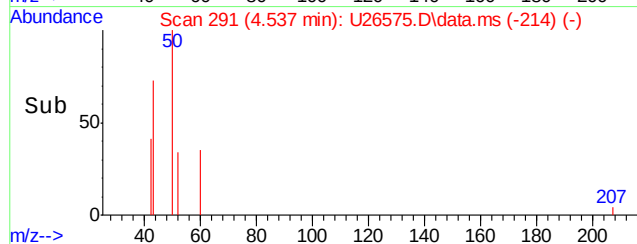
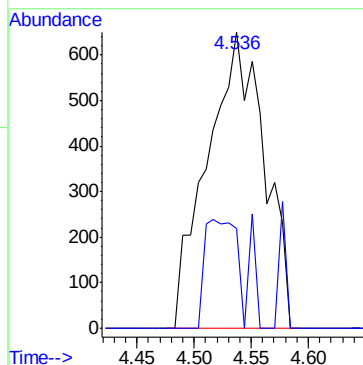
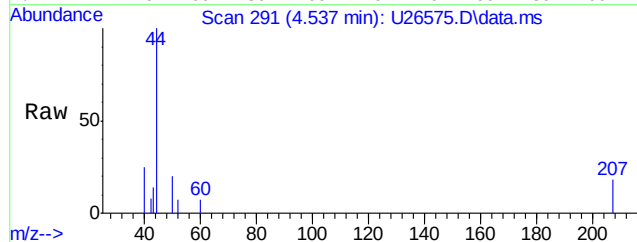
Quant Time: Mar 09 15:08:56 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration





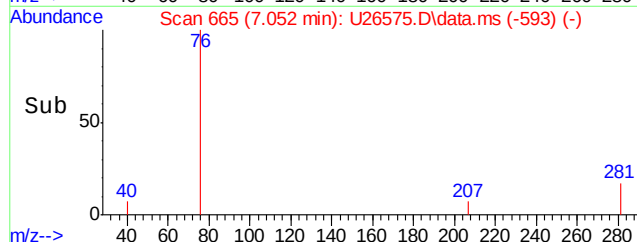
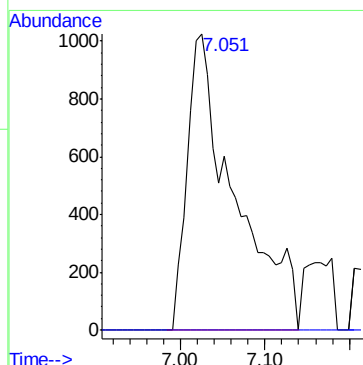
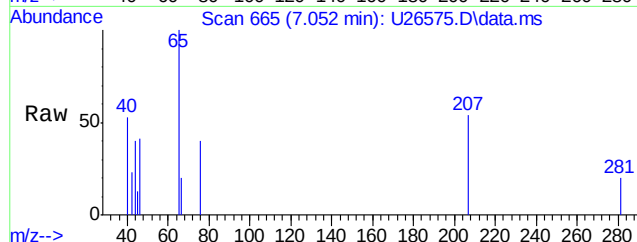
#6
chloromethane
Concen: 0.35 ppb
RT: 4.536 min Scan# 291
Delta R.T. -0.012 min
Lab File: U26575.D
Acq: 9 Mar 2015 12:11 pm

Tgt Ion: 50 Resp: 2247
Ion Ratio Lower Upper
50 100
52 33.8 2.6 62.6



#24
carbon disulfide
Concen: 0.26 ppb
RT: 7.051 min Scan# 665
Delta R.T. -0.016 min
Lab File: U26575.D
Acq: 9 Mar 2015 12:11 pm

Tgt Ion: 76 Resp: 3975
Ion Ratio Lower Upper
76 100
78 0.0 0.0 38.8



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26573.D
Acq On : 9 Mar 2015 11:14 am
Operator : GaryK
Sample : mb
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 15:07:25 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.755	65	123055	500.00	ppb	0.01
4) pentafluorobenzene	8.963	168	409115	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.830	114	617023	50.00	ppb	0.00
66) chlorobenzene-d5	13.087	82	214566	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.650	152	312686	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.604	113	249237	53.25	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.50%		
60) toluene-d8 (s)	11.627	98	588898	47.39	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.78%		
82) bromofluorobenzene (s)	14.317	95	207294	47.18	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.36%		

Target Compounds Qvalue

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

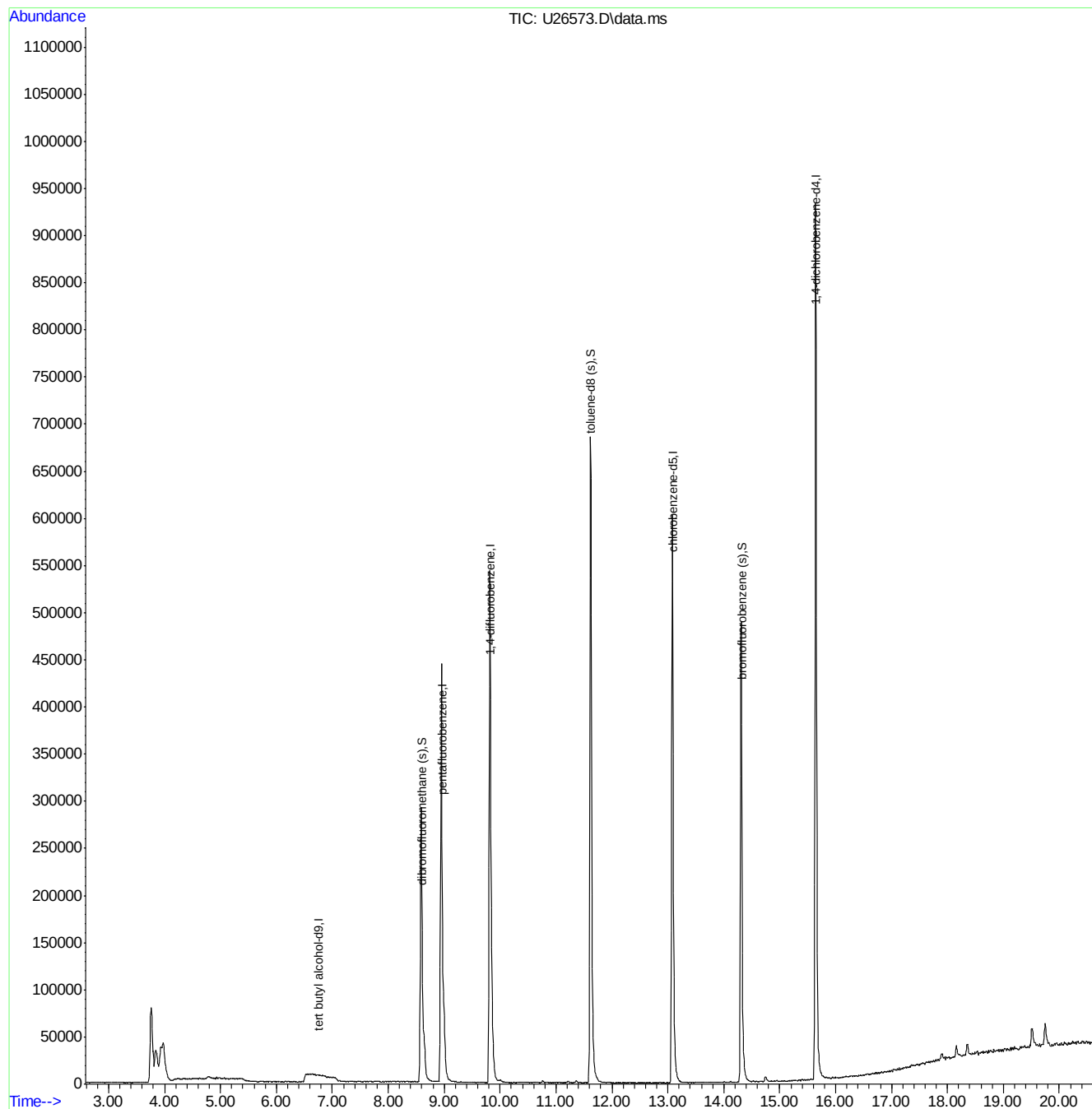
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26573.D
Acq On : 9 Mar 2015 11:14 am
Operator : GaryK
Sample : mb
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 15:07:25 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26604.D
Acq On : 10 Mar 2015 11:17 am
Operator : GaryK
Sample : mb
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 10 12:17:09 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.740	65	132265	500.00	ppb	0.00
4) pentafluorobenzene	8.963	168	396826	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.830	114	606395	50.00	ppb	0.00
66) chlorobenzene-d5	13.087	82	210397	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.650	152	294175	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.603	113	240991	53.08	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.16%		
60) toluene-d8 (s)	11.627	98	590813	48.38	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.76%		
82) bromofluorobenzene (s)	14.317	95	192084	46.46	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.92%		

Target Compounds Qvalue

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

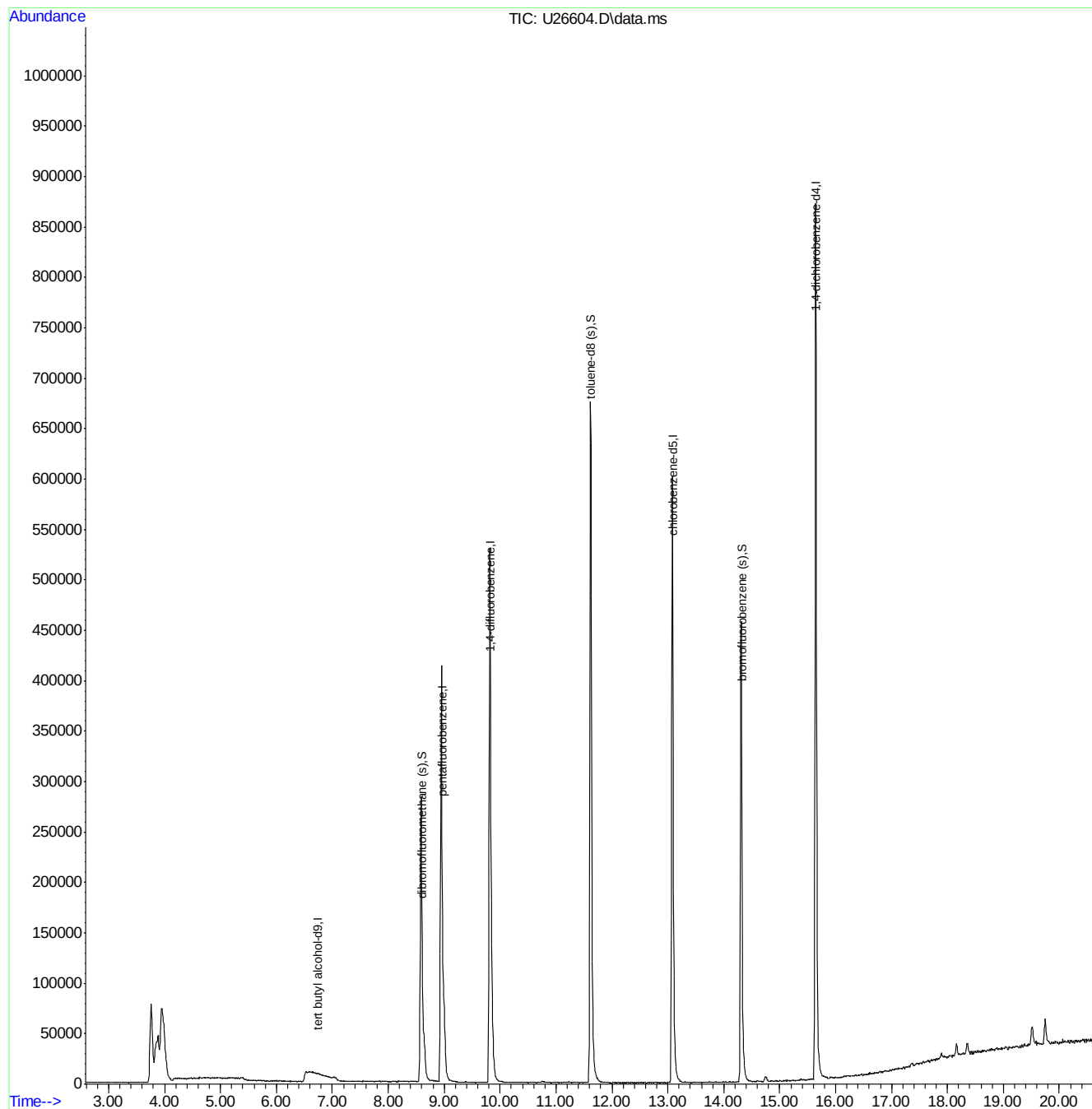
7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26604.D
Acq On : 10 Mar 2015 11:17 am
Operator : GaryK
Sample : mb
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 10 12:17:09 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26570.D
 Acq On : 9 Mar 2015 9:51 am
 Operator : GaryK
 Sample : bs
 Misc : ms33941,msu1116,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:50:52 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.655	65	224025	500.00	ppb	-0.09
4) pentafluorobenzene	8.954	168	500816	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.822	114	799073	50.00	ppb	0.00
66) chlorobenzene-d5	13.077	82	321433	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.643	152	354739	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.592	113	264985	46.25	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.50%		
60) toluene-d8 (s)	11.619	98	821688	51.06	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	102.12%		
82) bromofluorobenzene (s)	14.307	95	269492	54.06	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.12%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.689	59	271489m	407.48	ppb	
3) Ethanol	5.658	45	231464	6235.57	ppb	89
5) dichlorodifluoromethane	4.341	85	450820	70.15	ppb	98
6) chloromethane	4.565	50	526108	60.57	ppb	99
7) vinyl chloride	4.831	62	436361	60.02	ppb	98
8) bromomethane	5.302	96	292082	57.22	ppb	97
9) chloroethane	5.470	64	185312	60.52	ppb	73
10) ethyl ether	6.272	59	202568	50.34	ppb	85
11) acetonitrile	6.057	41	26243m	41.54	ppb	
12) trichlorofluoromethane	6.205	101	516701m	55.73	ppb	
13) freon-113	6.978	101	219936m	30.31	ppb	
15) 1,1-dichloroethene	6.783	96	289600m	44.77	ppb	
16) acetone	6.164	58	43073m	91.55	ppb	
17) Methyl Acetate	6.828	43	283678	39.74	ppb	# 63
18) methylene chloride	6.834	84	326874	50.33	ppb	89
19) methyl tert butyl ether	7.548	73	689050	47.31	ppb	94
20) acrylonitrile	6.705	53	98814	45.88	ppb	93
21) allyl chloride	6.905	41	423785	53.60	ppb	95
22) trans-1,2-dichloroethene	7.467	96	264649	45.02	ppb	# 75
23) iodomethane	6.763	142	604138	48.65	ppb	99
24) carbon disulfide	7.138	76	907083	44.08	ppb	91
25) propionitrile	8.061	54	19394	45.35	ppb	100
26) vinyl acetate	7.801	43	539762	95.42	ppb	95
27) chloroprene	8.062	53	348979	46.31	ppb	89
28) di-isopropyl ether	8.103	45	833208	50.56	ppb	79
29) methacrylonitrile	8.224	41	178187	53.72	ppb	93
30) 2-butanone	8.114	72	47243m	68.30	ppb	
31) Ethyl Acetate	8.106	43	876358	59.42	ug/L	# 87
32) Hexane	8.084	41	396912	52.12	ppb	# 76
33) 1,1-dichloroethane	7.703	63	420697	45.03	ppb	96
34) tert-butyl ethyl ether	8.501	59	795119	48.36	ppb	90
35) isobutyl alcohol	8.524	43	173857	294.54	ppb	# 62
36) 2,2-dichloropropane	8.574	77	238754	40.10	ppb	96
37) cis-1,2-dichloroethene	8.267	96	299201	46.06	ppb	# 80

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26570.D
 Acq On : 9 Mar 2015 9:51 am
 Operator : GaryK
 Sample : bs
 Misc : ms33941,msu1116,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:50:52 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.433	128	165083	44.61	ppb	# 57
39) chloroform	8.472	83	462596	46.64	ppb	98
41) Tetrahydrofuran	8.827	42	94057	54.61	ppb	96
42) 1,1,1-trichloroethane	9.245	97	337817	38.94	ppb	96
44) Cyclohexane	9.542	56	310840	31.26	ppb	# 81
45) carbon tetrachloride	9.602	117	324682	40.12	ppb	94
46) 1,1-dichloropropene	9.396	75	307227	47.69	ppb	87
47) benzene	9.619	78	927718	48.04	ppb	98
48) 1,2-dichloroethane	9.129	62	369410	49.07	ppb	95
49) tert-amyl methyl ether	9.745	73	711349	49.81	ppb	96
50) heptane	10.098	43	347791m	59.71	ppb	
51) trichloroethene	10.241	95	303441	51.10	ppb	79
52) 1,2-dichloropropane	10.208	63	239425	50.16	ppb	98
53) dibromomethane	10.182	93	175028	48.81	ppb	90
54) bromodichloromethane	10.295	83	359810	49.66	ppb	96
55) Methylcyclohexane	10.766	83	341532	38.50	ppb	# 83
56) 2-chloroethyl vinyl ether	10.680	63	64029	75.98	ppb	86
57) methyl methacrylate	10.399	69	135019	55.39	ppb	86
59) cis-1,3-dichloropropene	10.916	75	380347	55.53	ppb	87
61) 4-methyl-2-pentanone	11.020	43	296649	60.28	ppb	94
62) toluene	11.691	92	547551	50.12	ppb	98
63) trans-1,3-dichloropropene	11.337	75	301540	56.68	ppb	92
64) 1,1,2-trichloroethane	11.509	83	170944	52.36	ppb	97
65) ethyl methacrylate	11.718	69	242251	55.73	ppb	99
67) tetrachloroethene	12.434	166	253956	47.23	ppb	96
68) 1,3-dichloropropane	11.744	76	315233	54.59	ppb	93
69) dibromochloromethane	12.034	129	295772	49.32	ppb	96
70) 1,2-dibromoethane	12.286	107	232570	49.80	ppb	99
71) 2-hexanone	11.883	43	261430	80.74	ppb	93
72) chlorobenzene	13.114	112	616263	44.13	ppb	88
73) 1,1,1,2-tetrachloroethane	13.033	131	287121	46.71	ppb	98
74) ethylbenzene	13.290	91	999412	47.20	ppb	95
75) m,p-xylene	13.474	106	796994	93.20	ppb	89
76) o-xylene	13.887	106	422400	43.71	ppb	89
77) styrene	13.815	104	611325	45.34	ppb	95
78) bromoform	13.641	173	171929	46.39	ppb	99
79) trans-1,4-dichloro-2-b...	14.043	53	58270	46.64	ppb	# 44
81) isopropylbenzene	14.251	105	1125341	52.00	ppb	95
83) bromobenzene	14.539	156	284496	51.46	ppb	# 78
84) 1,1,2,2-tetrachloroethane	13.893	83	272142	53.12	ppb	99
85) 1,2,3-trichloropropane	14.042	75	281171	55.64	ppb	99
86) n-propylbenzene	14.696	91	1174968	51.63	ppb	93
87) 2-chlorotoluene	14.814	91	733089	50.64	ppb	88
88) 4-chlorotoluene	14.890	91	696784	51.45	ppb	89
89) 1,3,5-trimethylbenzene	14.973	105	1072527	55.18	ppb	93
90) tert-butylbenzene	15.278	91	587456	54.38	ppb	84
91) 1,2,4-trimethylbenzene	15.382	105	1047301	51.57	ppb	97
92) sec-butylbenzene	15.502	105	1366060	52.98	ppb	95
93) 1,3-dichlorobenzene	15.604	146	550937	48.01	ppb	99
94) p-isopropyltoluene	15.675	119	1234806	53.90	ppb	95

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26570.D
 Acq On : 9 Mar 2015 9:51 am
 Operator : GaryK
 Sample : bs
 Misc : ms33941,msu1116,,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:50:52 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.671	146	572005	47.92	ppb	99
96) 1,2-dichlorobenzene	16.040	146	617448	47.23	ppb	97
97) n-butylbenzene	16.094	91	1064009	53.95	ppb	91
98) 1,2-dibromo-3-chloropr...	16.521	75	77677	55.55	ppb	83
99) 1,3,5-trichlorobenzene	17.332	180	574538	49.77	ug/L	96
100) 1,2,4-trichlorobenzene	17.869	180	619724	48.08	ppb	94
101) hexachlorobutadiene	18.158	225	236946	59.81	ppb	94
102) naphthalene	18.135	128	1742295	55.47	ppb	100
103) 2-Methylnaphthalene	19.497	142	592296	31.66	ug/L	95
104) 1-Methylnaphthalene	19.744	142	484409	33.84	ug/L	97
105) 1,2,3-trichlorobenzene	18.341	180	631124	55.30	ppb	95

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

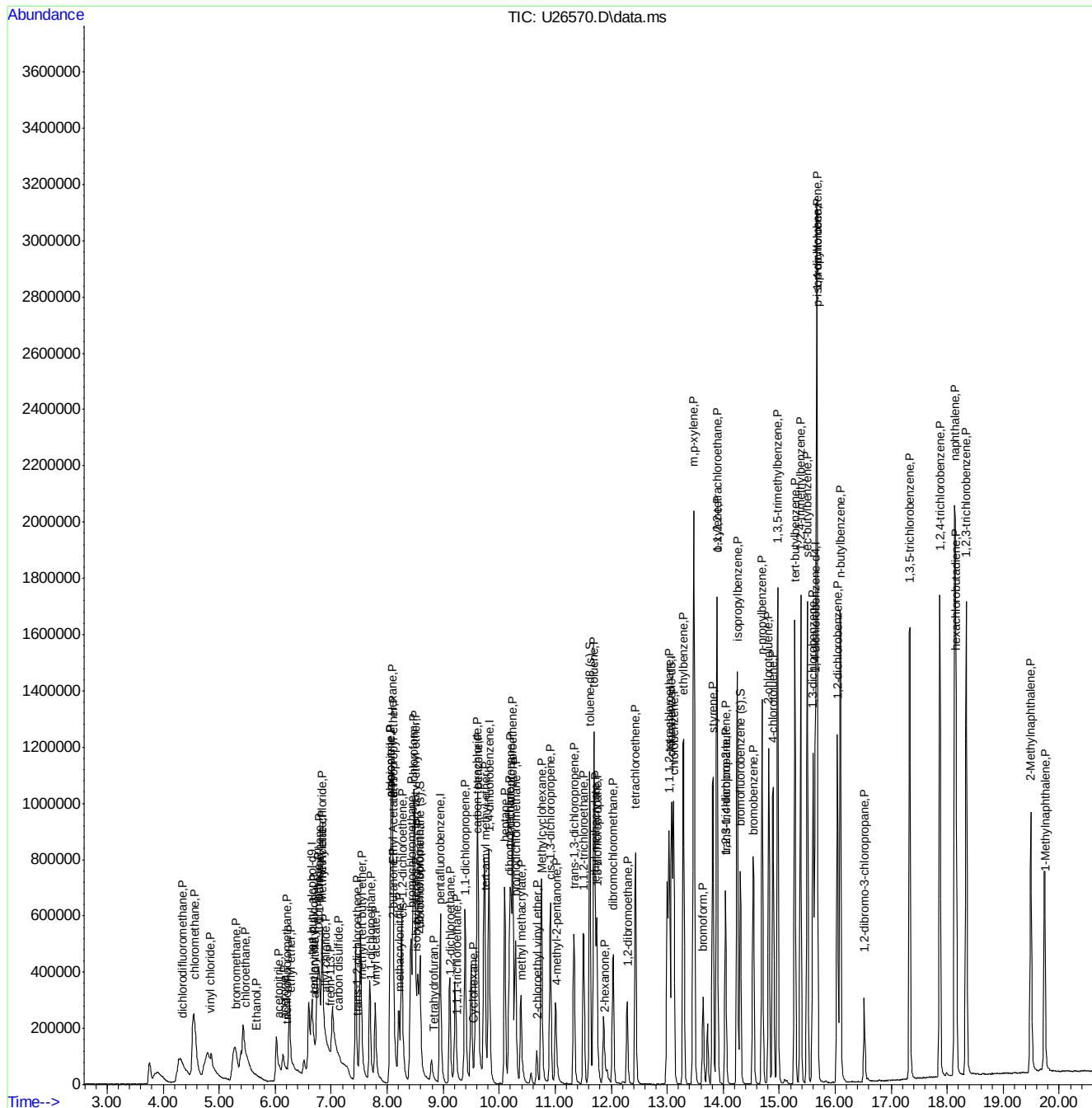
7.3.1

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,5,1
ALS Vial : 3 Sample Multiplier: 1

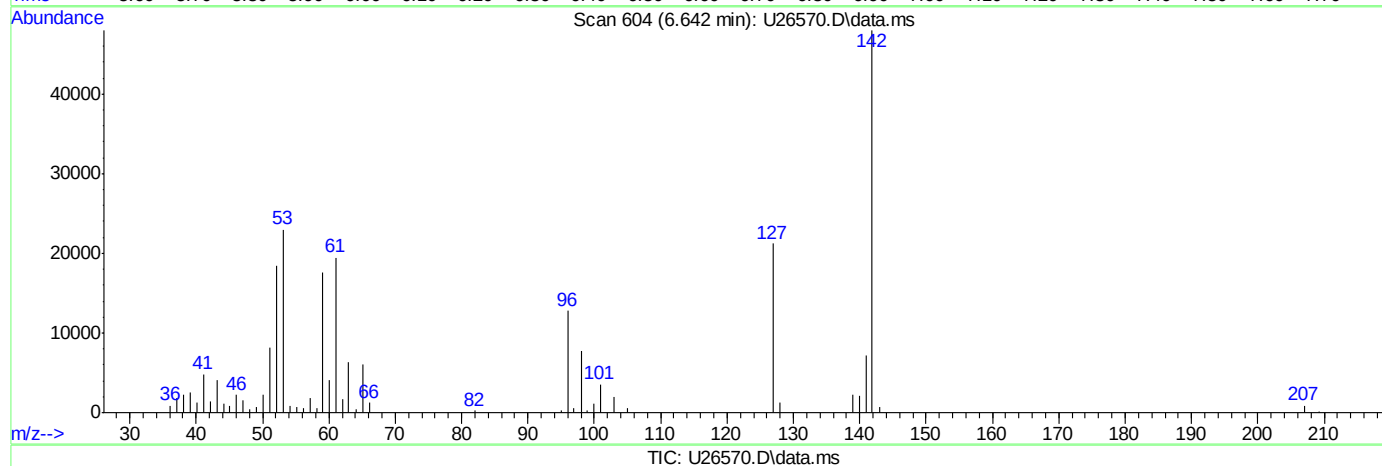
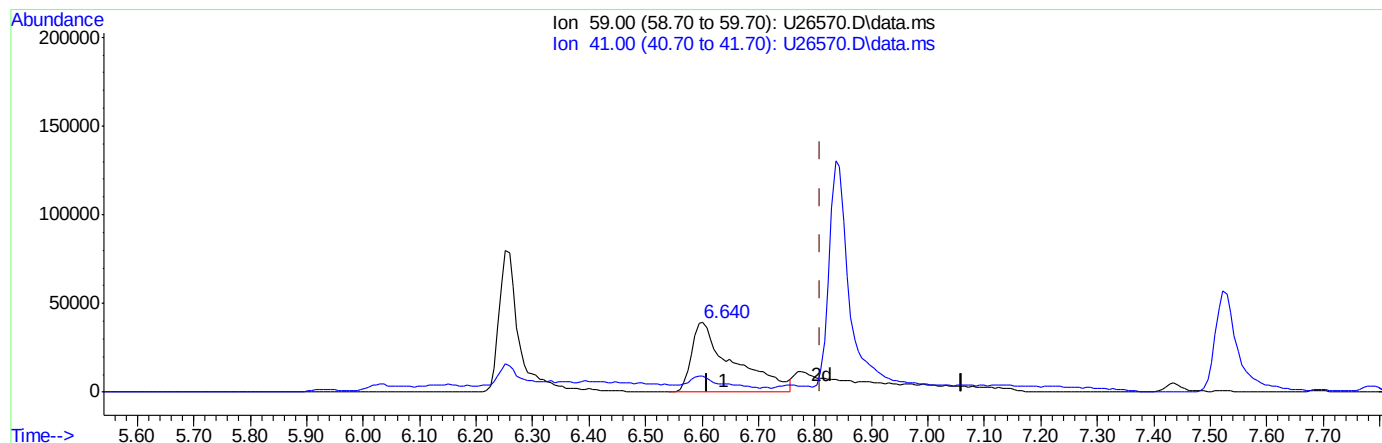
Quant Time: Mar 09 10:50:52 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.640min (-0.170) 299.88ppb

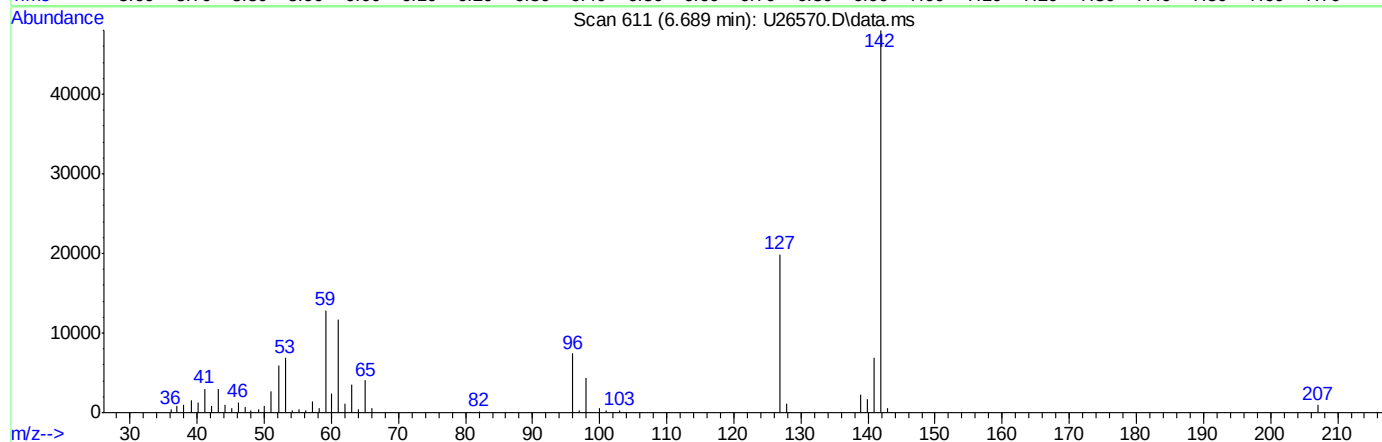
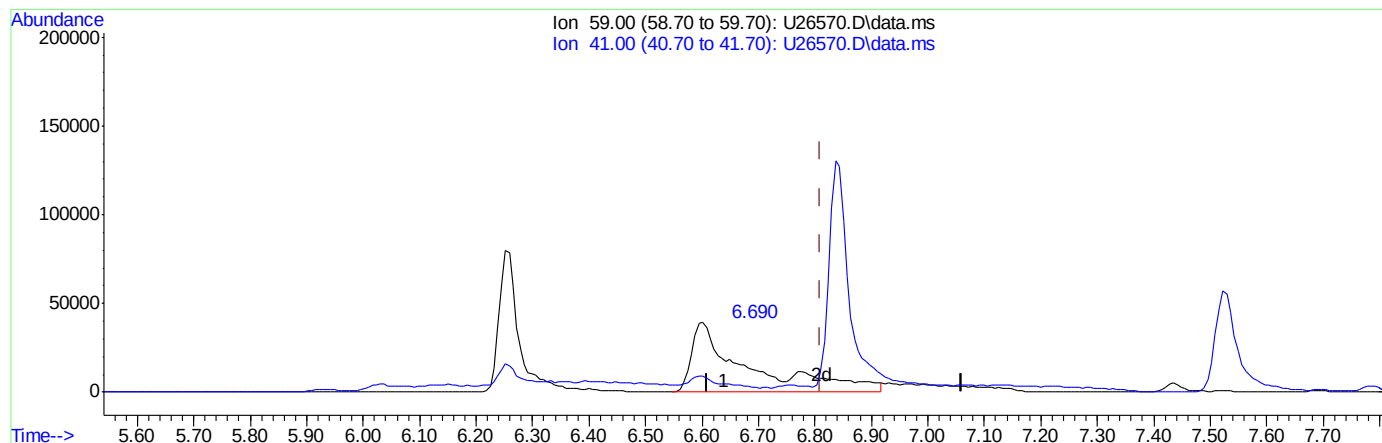
response 199799

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	5.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(2) tertiary butyl alcohol (P)

6.689min (-0.121) 407.48ppb m

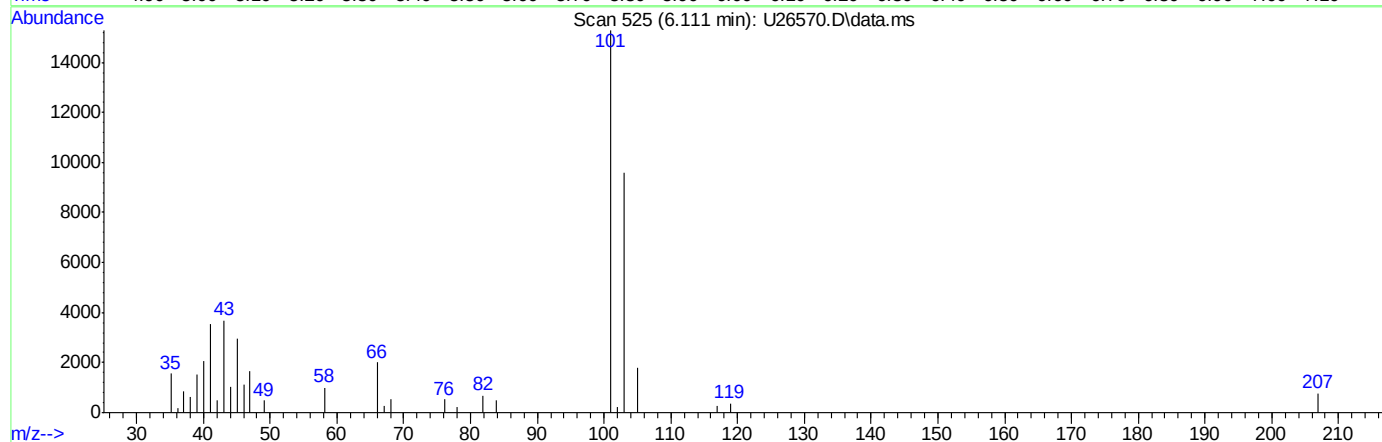
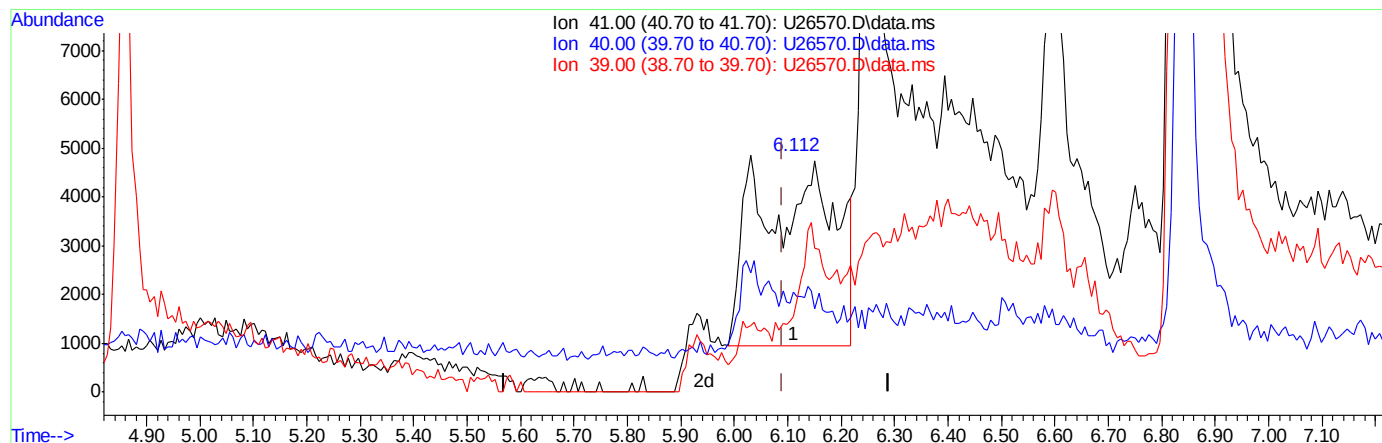
response 271489

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	23.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(11) acetonitrile (P)

6.112min (+0.022) 59.80ppb

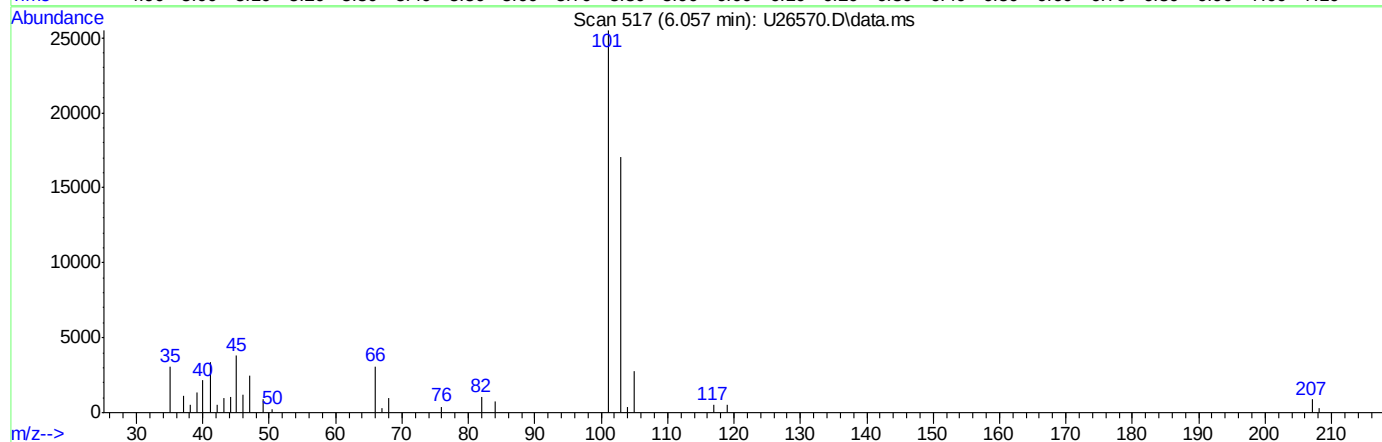
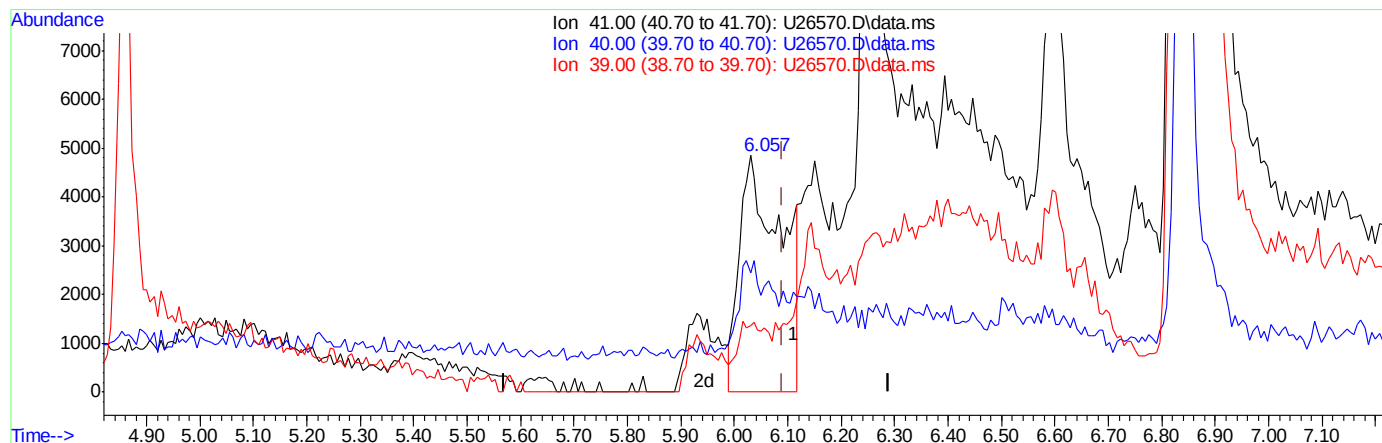
response 36476

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	41.48#
39.00	24.50	38.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(11) acetonitrile (P)

6.057min (-0.033) 41.54ppb m

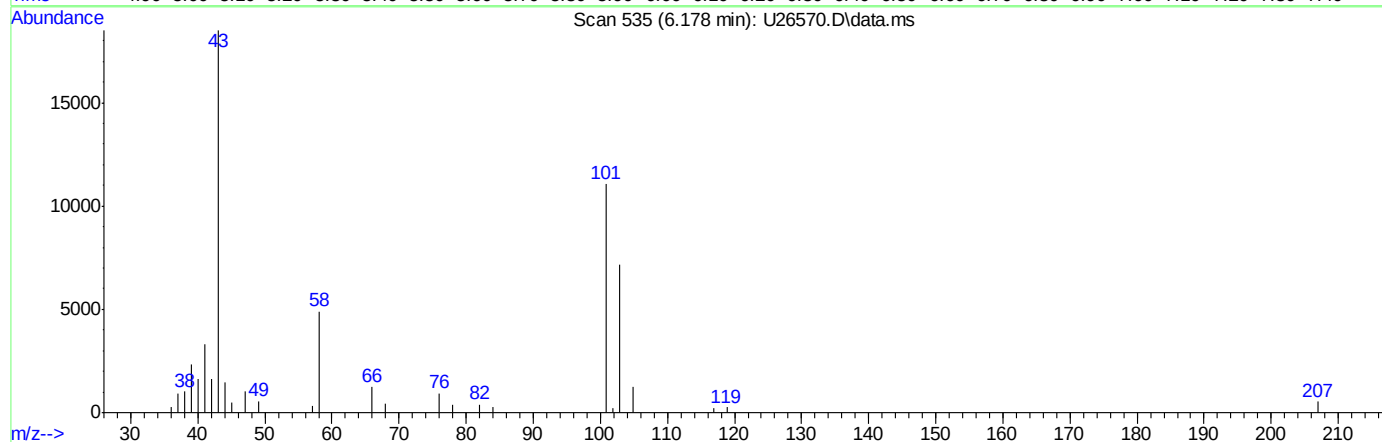
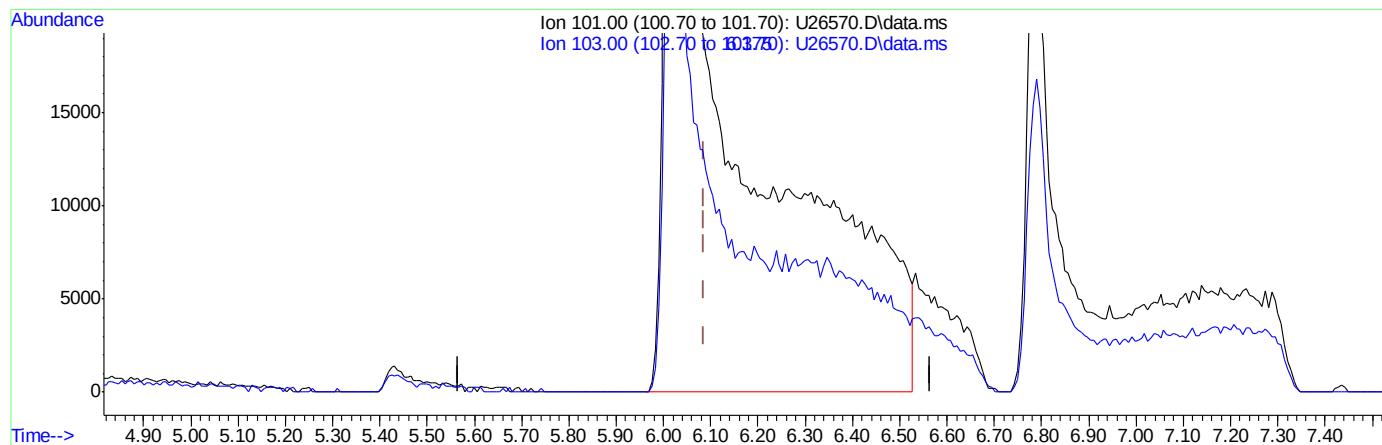
response 26243

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	63.95
39.00	24.50	39.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.175min (+0.089) 51.79ppb

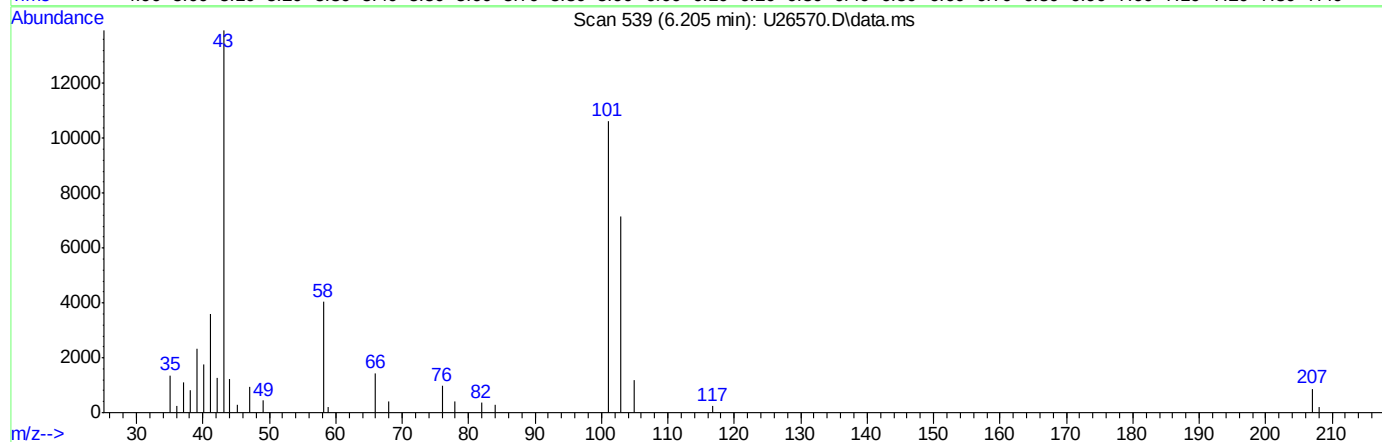
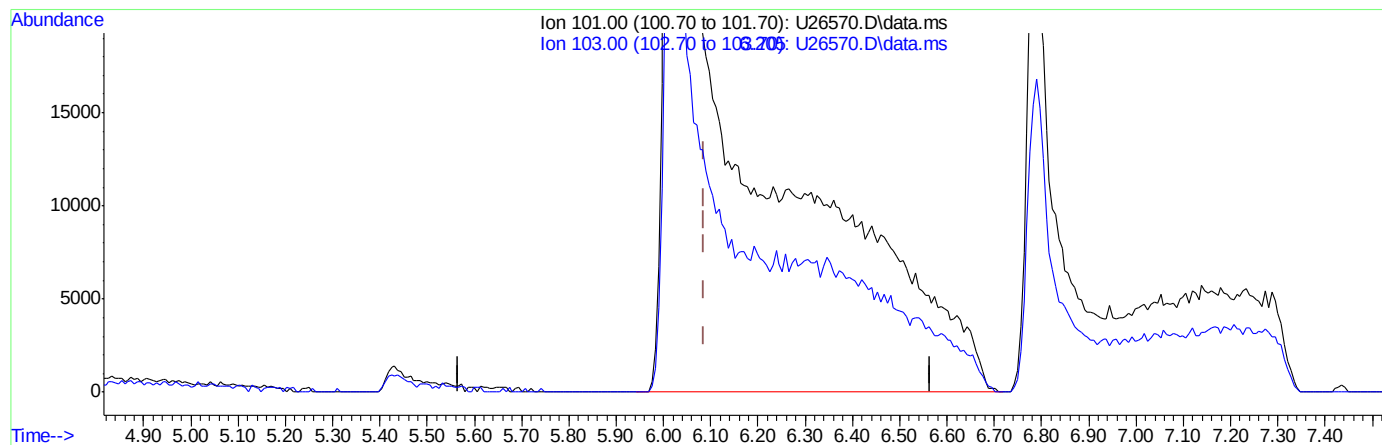
response 480220

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	64.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.205min (+0.119) 55.73ppb m

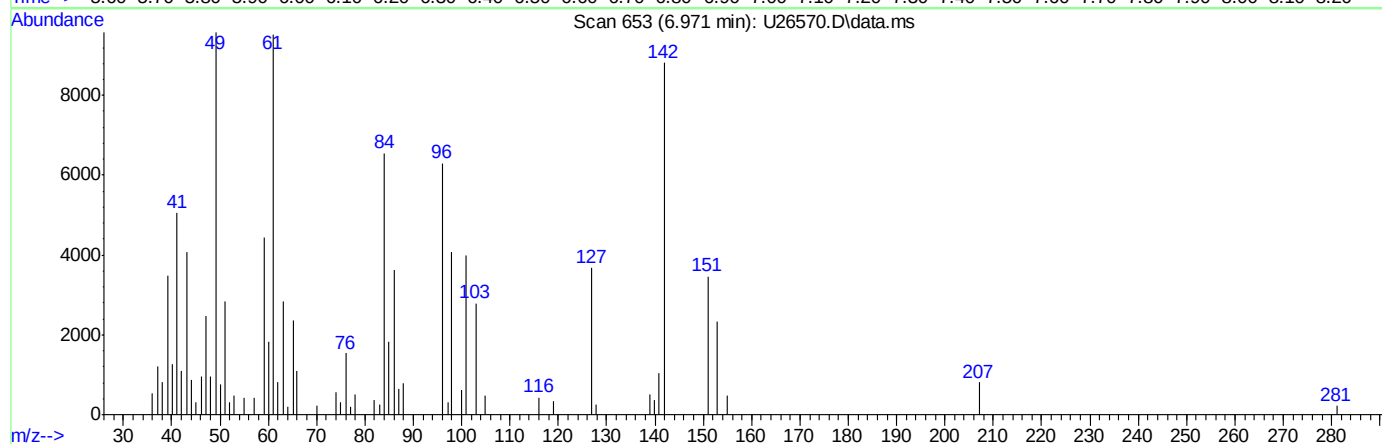
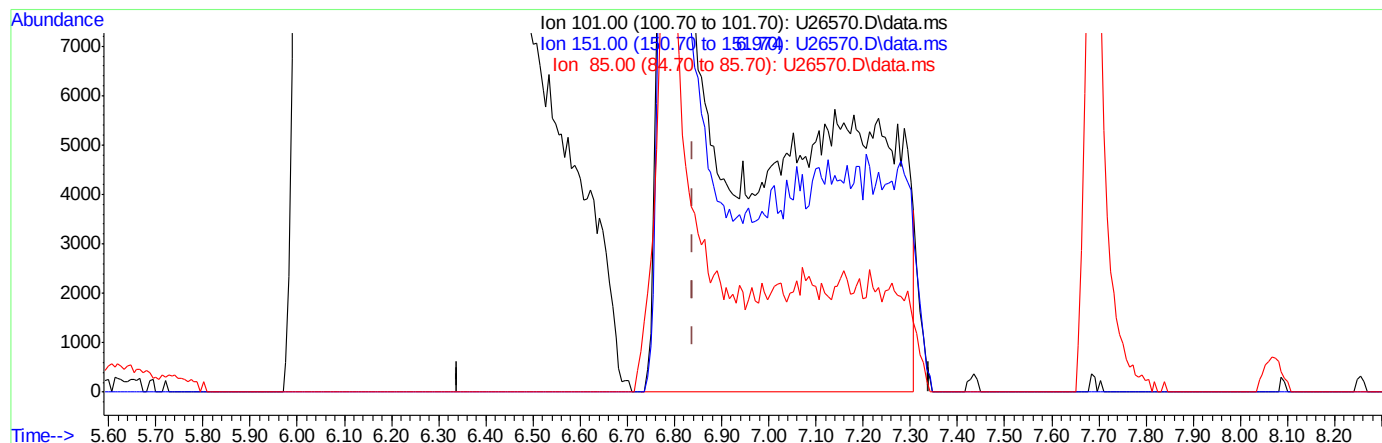
response 516701

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	67.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.974min (+0.134) 29.97ppb

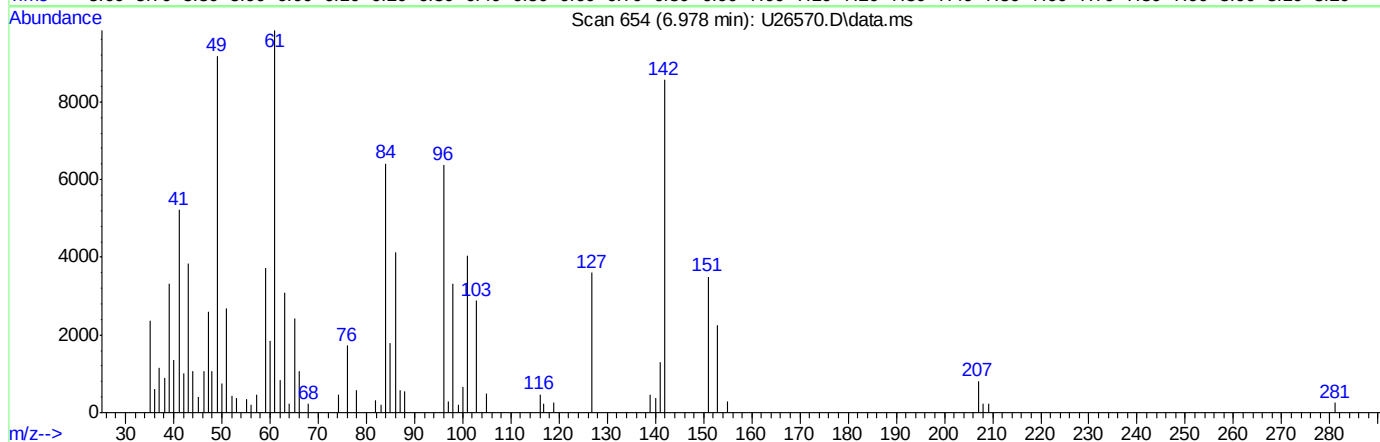
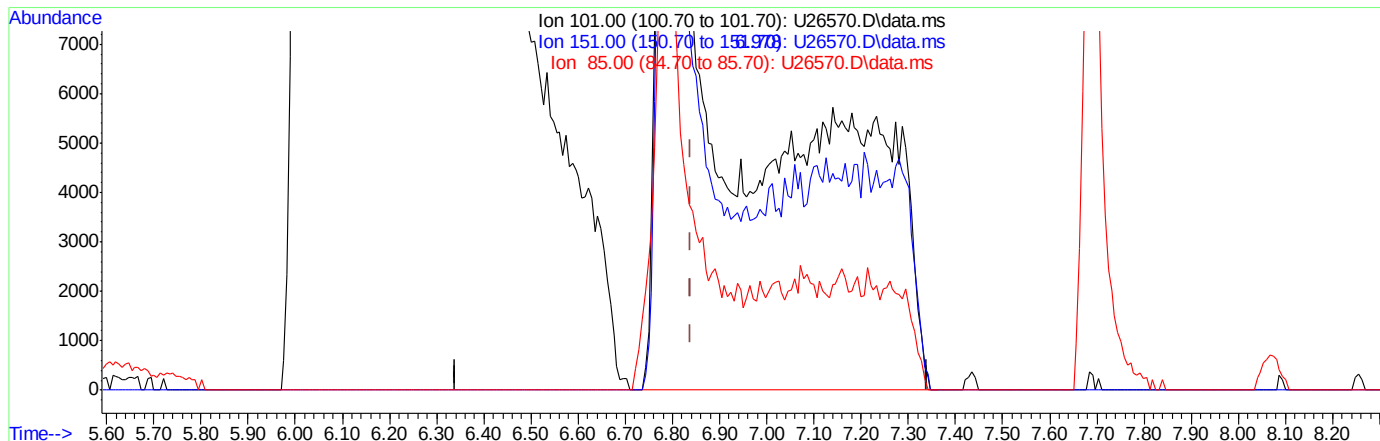
response 217484

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	86.99
85.00	45.00	25.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.978min (+0.138) 30.31ppb m

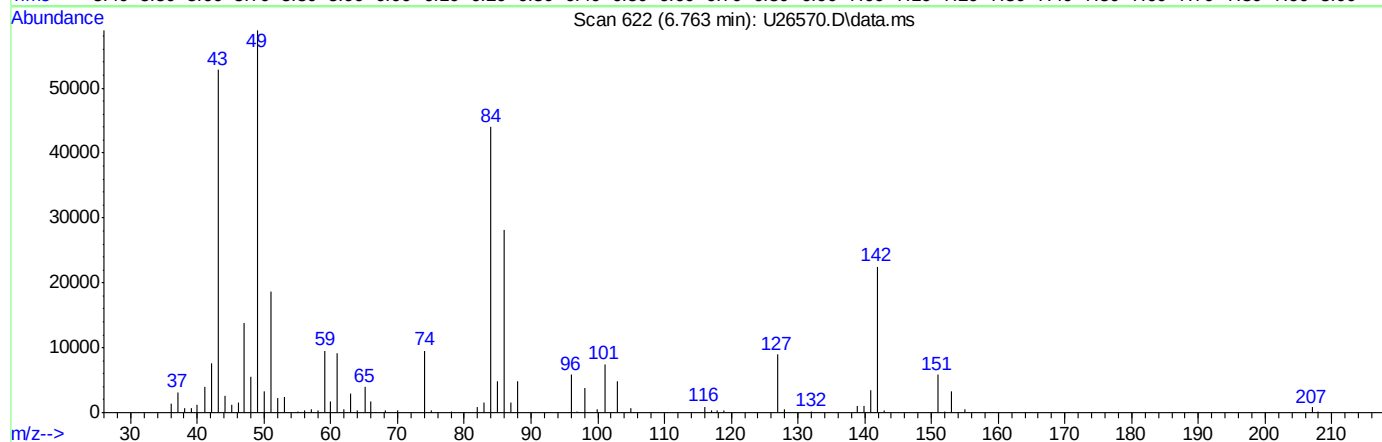
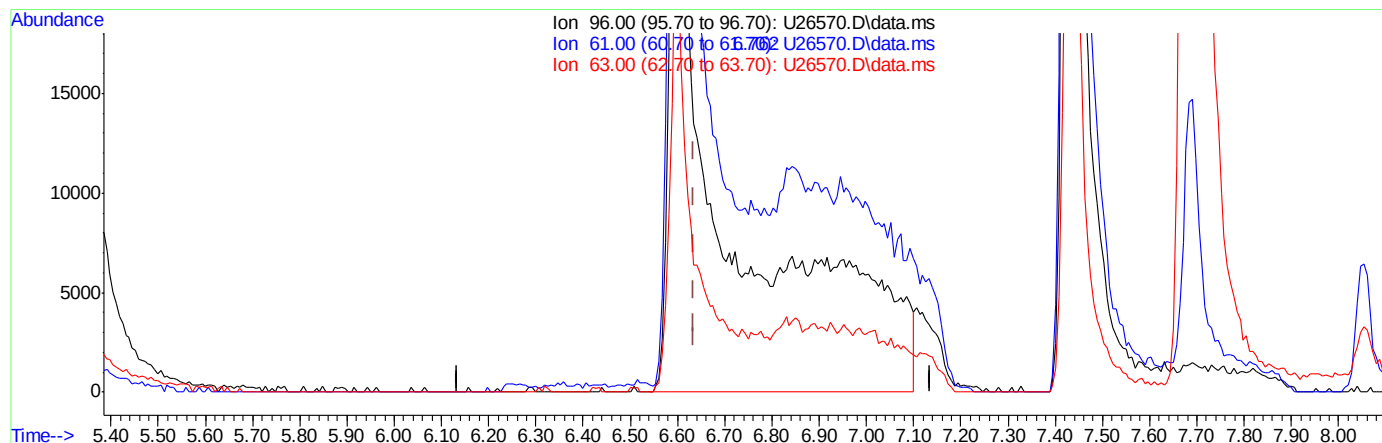
response 219936

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	86.26
85.00	45.00	44.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(15) 1,1-dichloroethene (P)

6.762min (+0.127) 42.52ppb

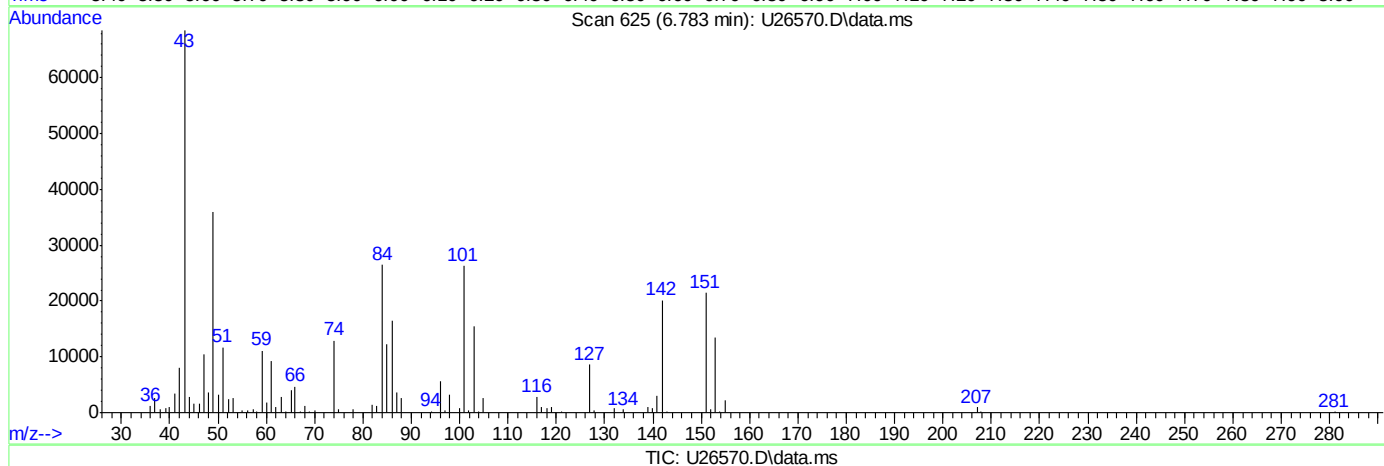
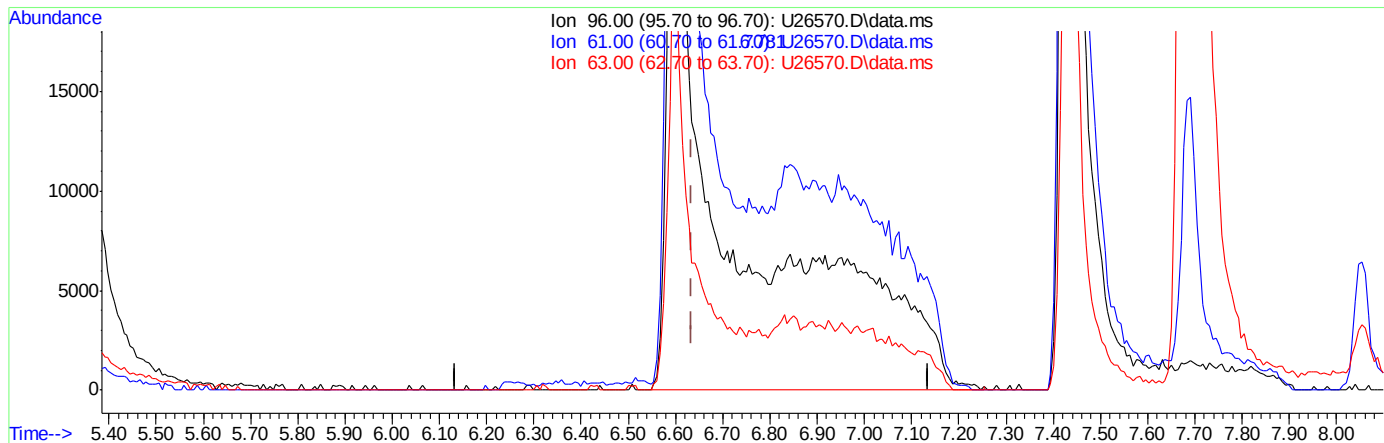
response 275038

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	150.69#
63.00	57.60	49.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.783min (+0.148) 44.77ppb m

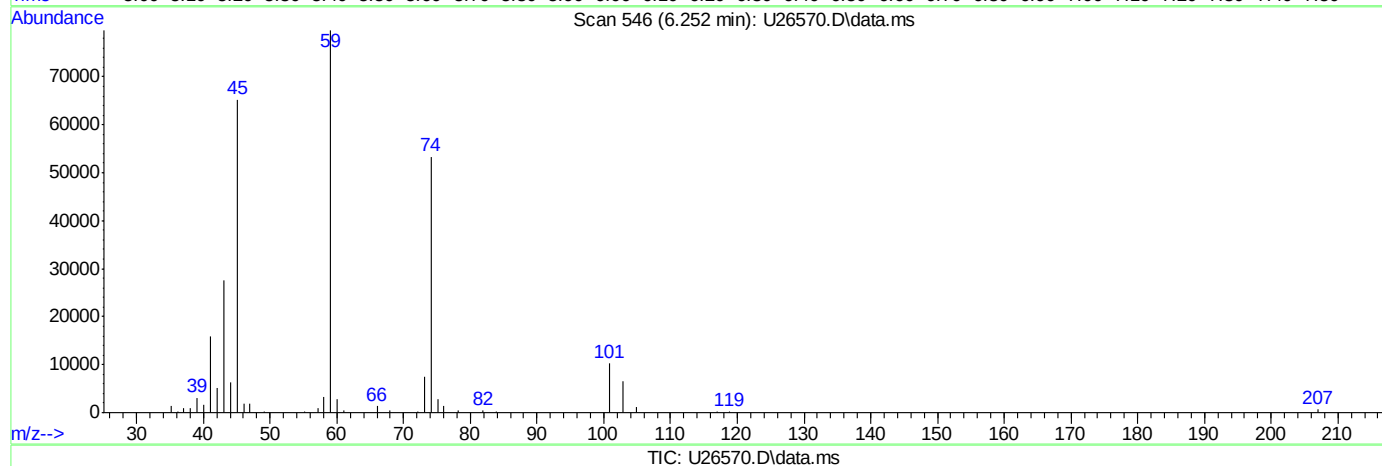
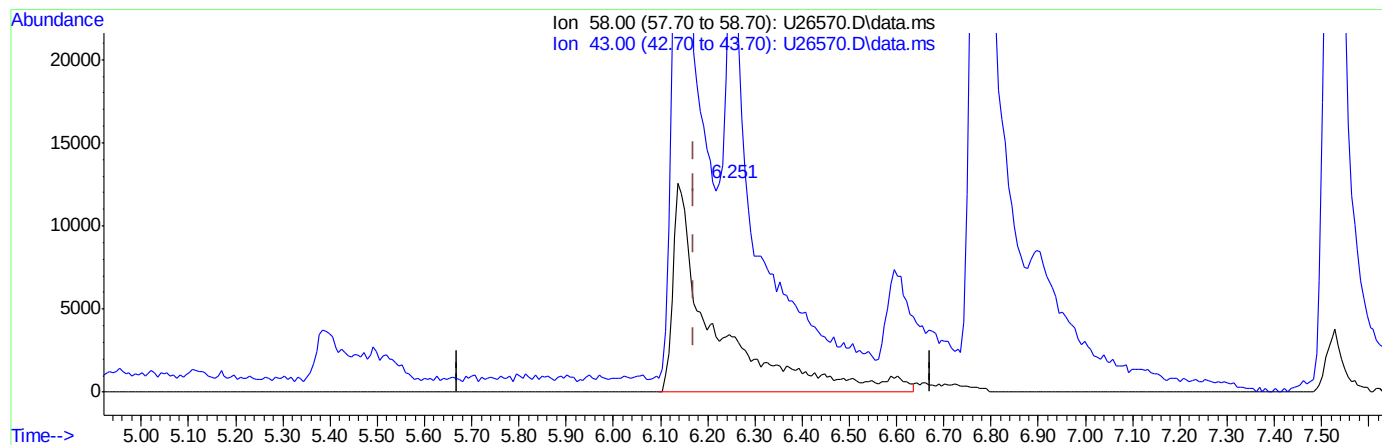
response 289600

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	161.42
63.00	57.60	47.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.251min (+0.080) 161.05ppb

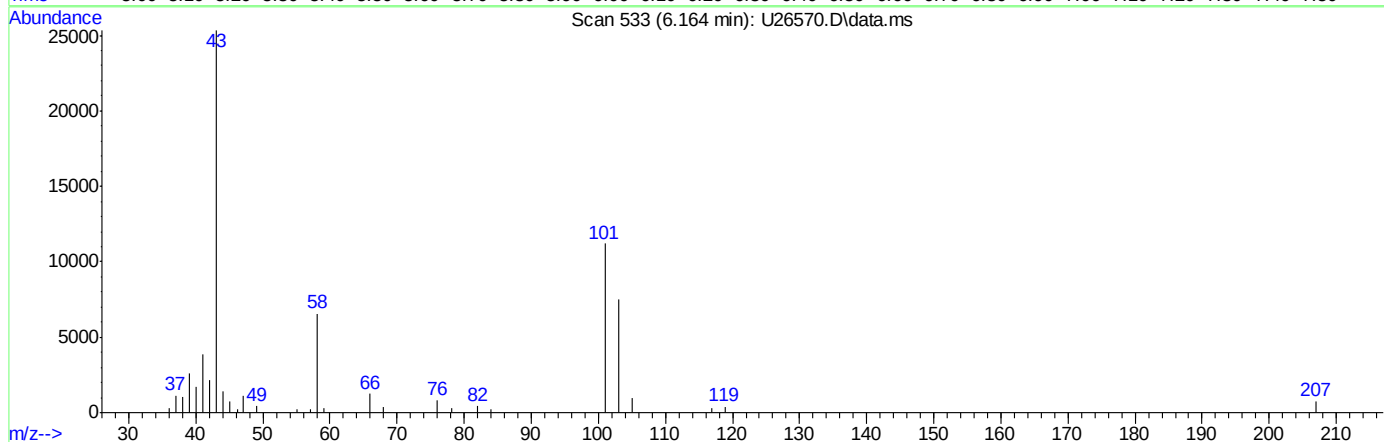
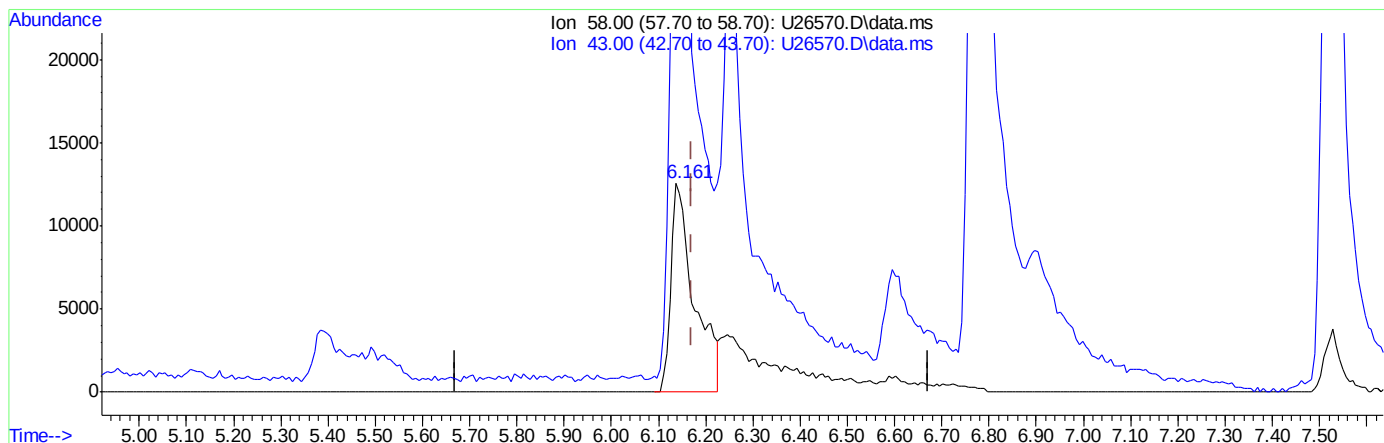
response 75774

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	799.04#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.164min (-0.007) 91.55ppb m

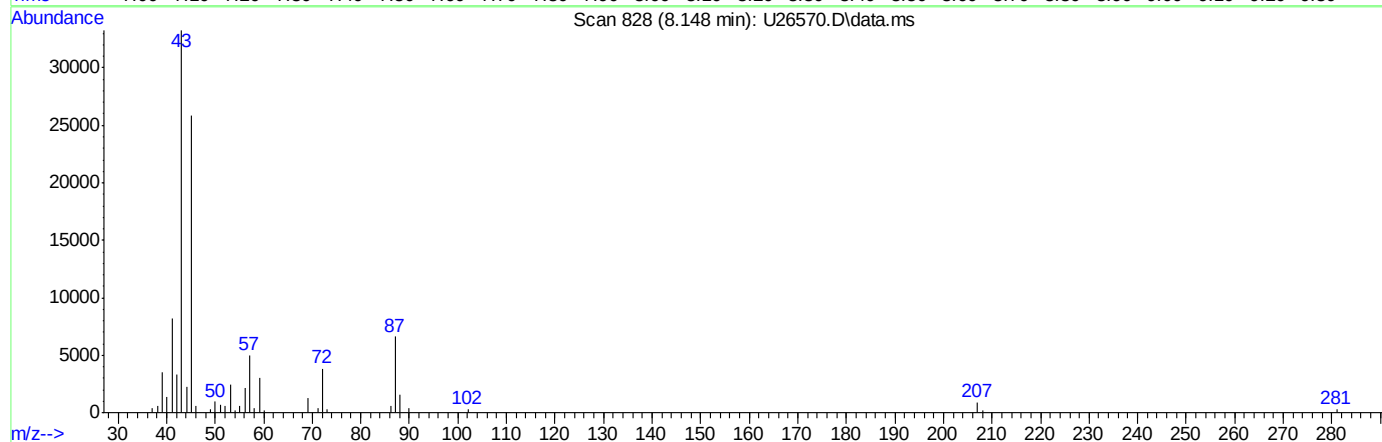
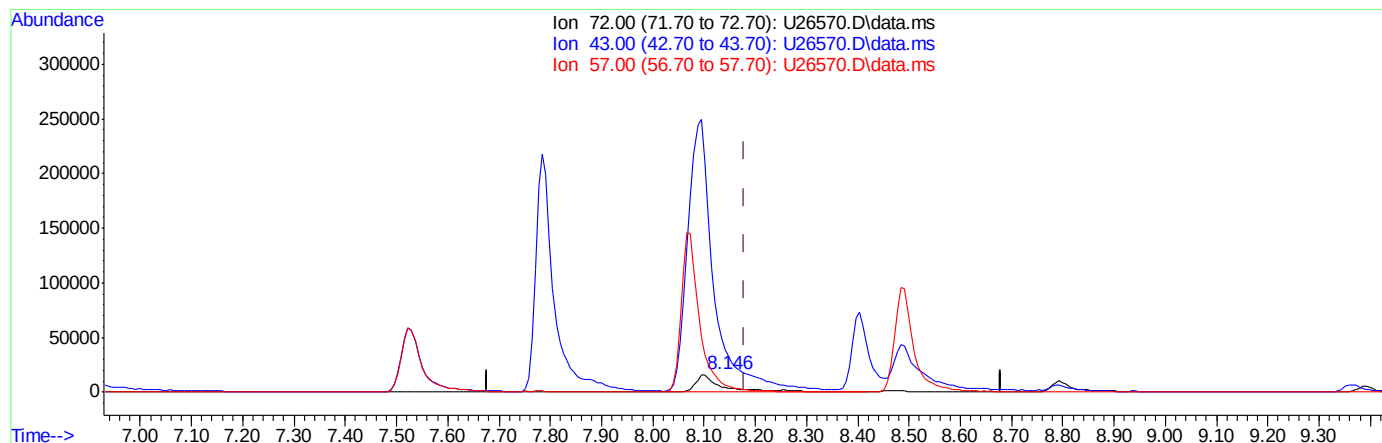
response 43073

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	386.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(30) 2-butanone (P)

8.146min (-0.033) 91.55ppb

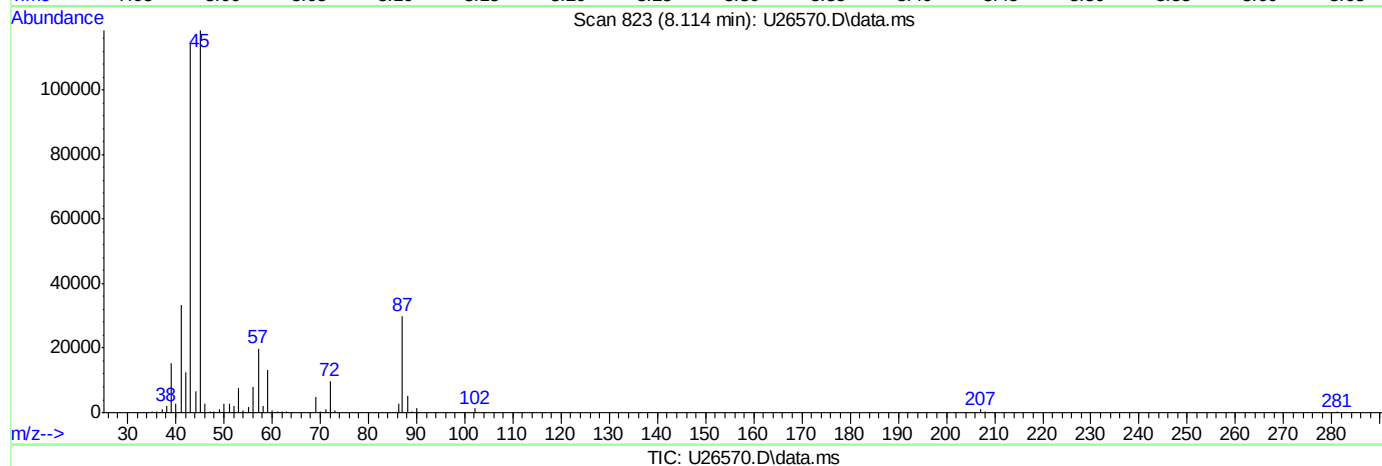
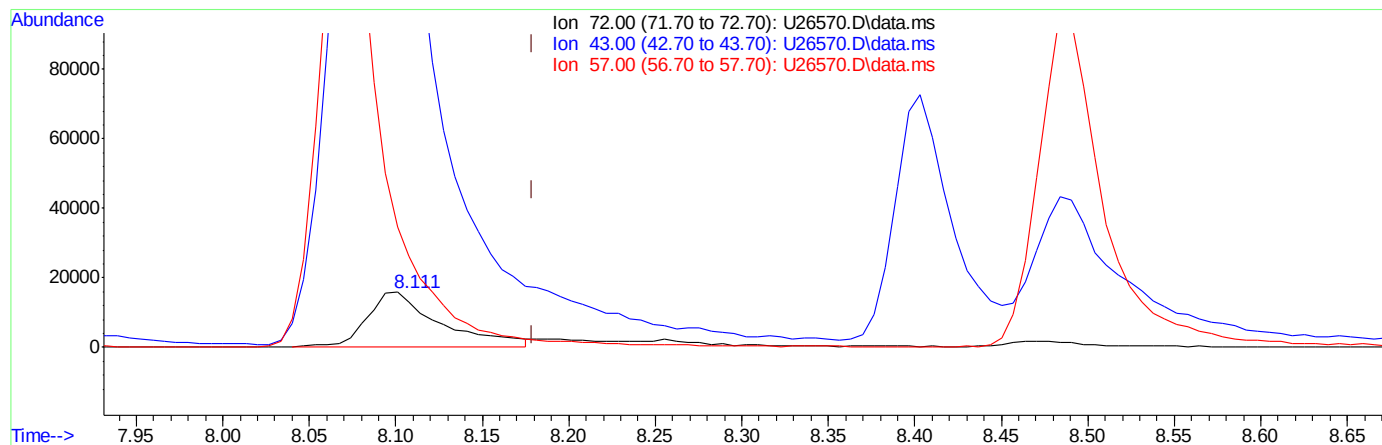
response 63327

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(30) 2-butanone (P)

8.114min (-0.065) 68.30ppb m

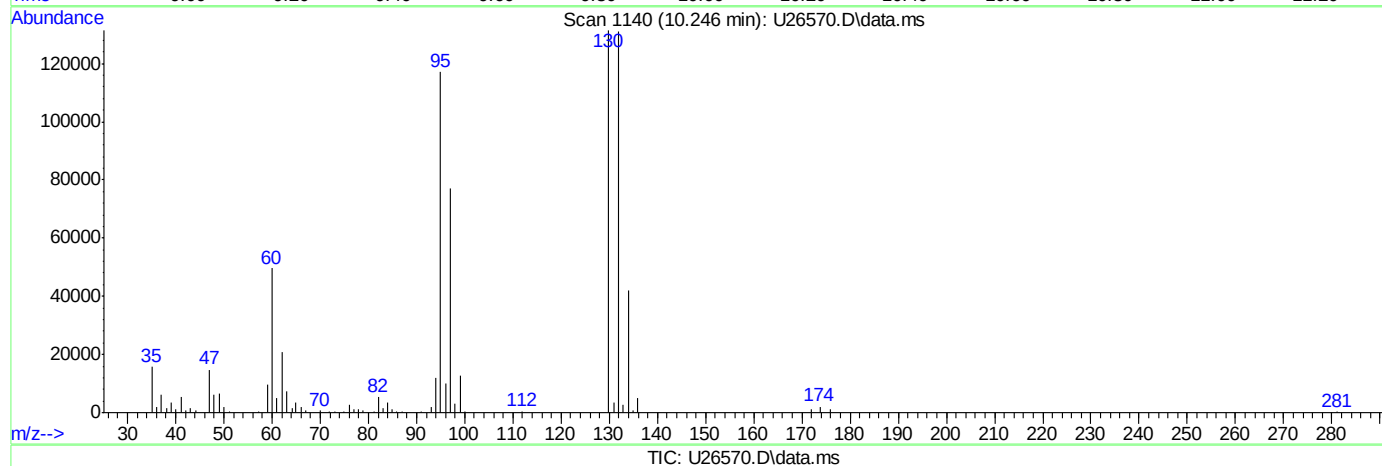
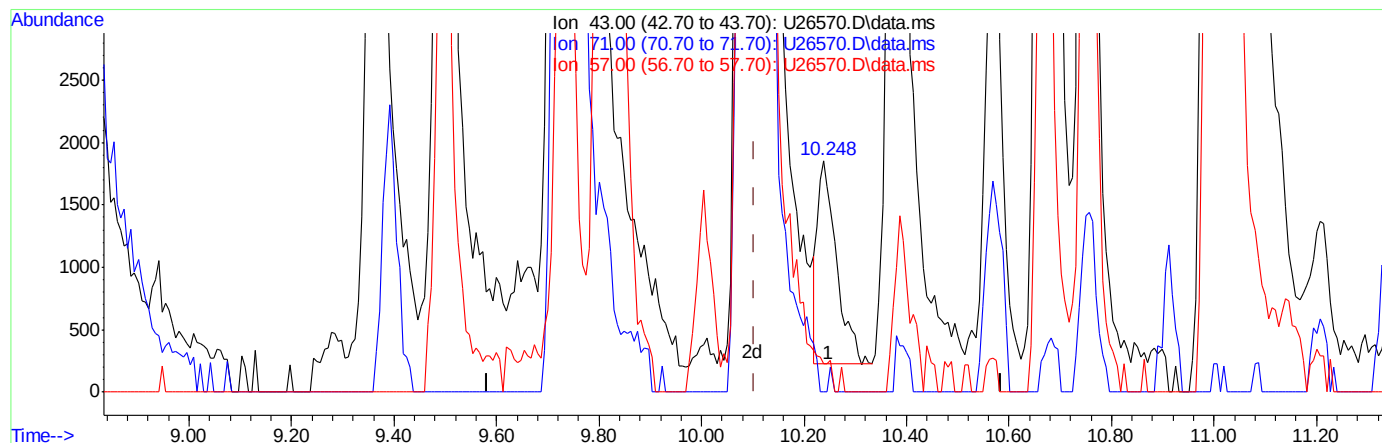
response 47243

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(50) heptane (P)

10.248min (+0.144) 0.71ppb

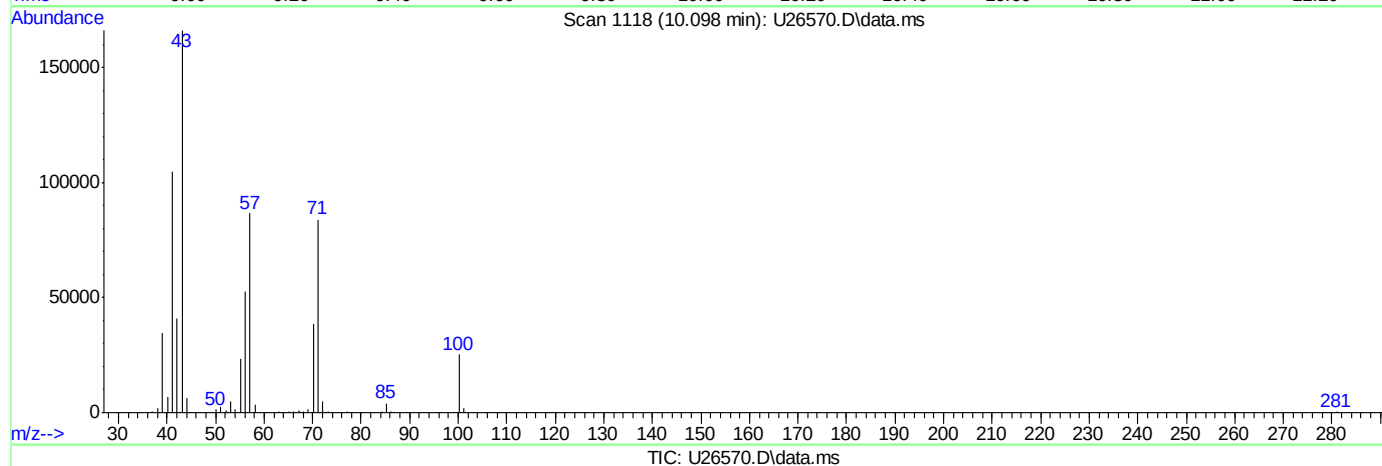
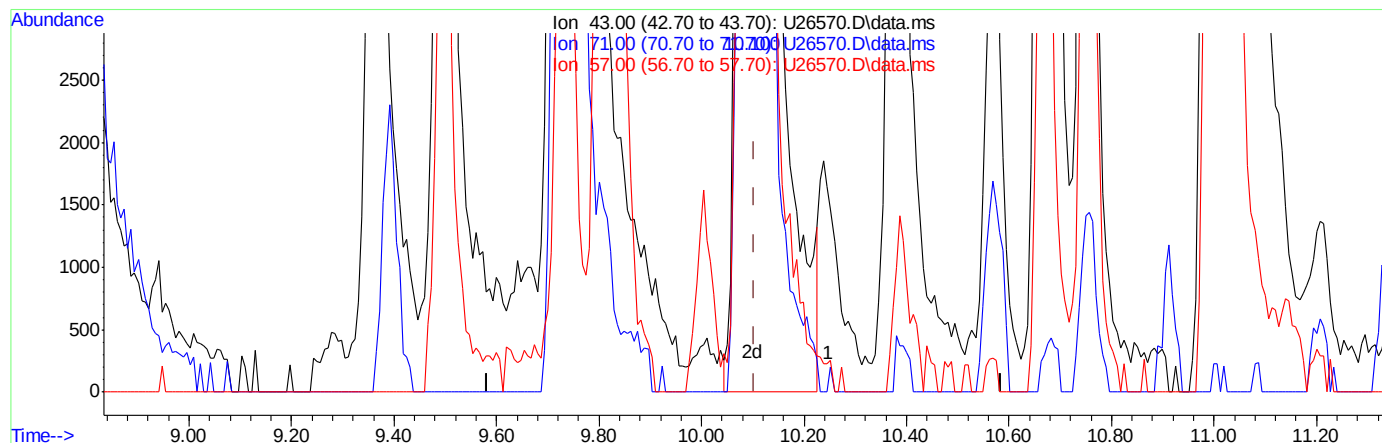
response 4146

Ion	Exp%	Act%
43.00	100	100
71.00	26.10	0.00
57.00	5.80	15.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(50) heptane (P)

10.098min (-0.006) 59.71ppb m

response 347791

Ion	Exp%	Act%
43.00	100	100
71.00	26.10	50.54
57.00	5.80	52.12#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26601.D
 Acq On : 10 Mar 2015 9:56 am
 Operator : GaryK
 Sample : bs
 Misc : ms33945,msu1117,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:59:16 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.730	65	155676	500.00	ppb	-0.01
4) pentafluorobenzene	8.955	168	468546	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.823	114	740008	50.00	ppb	0.00
66) chlorobenzene-d5	13.078	82	287534	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.642	152	312951	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.597	113	260938	48.68	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	97.36%		
60) toluene-d8 (s)	11.620	98	752079	50.46	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.92%		
82) bromofluorobenzene (s)	14.308	95	231207	52.57	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	105.14%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.803	59	232841m	502.91	ppb	
3) Ethanol	5.746	45	161845	6274.33	ppb	97
5) dichlorodifluoromethane	4.342	85	432922	72.00	ppb	96
6) chloromethane	4.559	50	488969	60.18	ppb	98
7) vinyl chloride	4.828	62	415919	61.14	ppb	100
8) bromomethane	5.298	96	279170	58.46	ppb	94
9) chloroethane	5.463	64	171712	59.94	ppb	79
10) ethyl ether	6.279	59	179487	47.67	ppb	86
11) acetonitrile	6.104	41	29378m	50.57	ppb	
12) trichlorofluoromethane	6.205	101	480049m	55.34	ppb	
13) freon-113	6.978	101	211427m	31.14	ppb	
15) 1,1-dichloroethene	6.776	96	278969m	46.10	ppb	
16) acetone	6.171	58	19760m	44.89	ppb	
17) Methyl Acetate	6.863	43	237403	35.55	ppb	# 48
18) methylene chloride	6.830	84	305124	50.22	ppb	97
19) methyl tert butyl ether	7.558	73	633517	46.50	ppb	94
20) acrylonitrile	6.757	53	91807	45.56	ppb	93
21) allyl chloride	6.897	41	398863	53.92	ppb	97
22) trans-1,2-dichloroethene	7.462	96	250277	45.51	ppb	# 79
23) iodomethane	6.758	142	578032	49.76	ppb	100
24) carbon disulfide	7.137	76	869695	45.17	ppb	93
25) propionitrile	8.063	54	19983	49.94	ppb	100
26) vinyl acetate	7.811	43	467749	88.39	ppb	97
27) chloroprene	8.064	53	334840	47.50	ppb	90
28) di-isopropyl ether	8.106	45	775377	50.29	ppb	86
29) methacrylonitrile	8.233	41	137746	44.39	ppb	90
30) 2-butanone	8.134	72	34772m	53.73	ppb	
31) Ethyl Acetate	8.108	43	739167	53.57	ug/L	# 74
32) Hexane	8.085	41	376790	52.88	ppb	# 77
33) 1,1-dichloroethane	7.704	63	397546	45.49	ppb	95
34) tert-butyl ethyl ether	8.505	59	734405	47.74	ppb	90
35) isobutyl alcohol	8.527	43	147352	264.74	ppb	# 20
36) 2,2-dichloropropane	8.574	77	230574	41.40	ppb	89
37) cis-1,2-dichloroethene	8.270	96	280649	46.18	ppb	# 79

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26601.D
 Acq On : 10 Mar 2015 9:56 am
 Operator : GaryK
 Sample : bs
 Misc : ms33945,msu1117,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:59:16 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.442	128	154106	44.51	ppb	# 63
39) chloroform	8.475	83	439164	47.33	ppb	93
41) Tetrahydrofuran	8.851	42	72474	44.98	ppb	90
42) 1,1,1-trichloroethane	9.245	97	327982	40.41	ppb	93
44) Cyclohexane	9.541	56	300325	32.61	ppb	# 84
45) carbon tetrachloride	9.601	117	315895	42.15	ppb	96
46) 1,1-dichloropropene	9.396	75	292011	48.94	ppb	89
47) benzene	9.621	78	868460	48.56	ppb	99
48) 1,2-dichloroethane	9.141	62	343257	49.24	ppb	97
49) tert-amyl methyl ether	9.749	73	651402	49.25	ppb	96
50) heptane	10.103	43	327094	60.64	ppb	# 33
51) trichloroethene	10.242	95	280963	51.09	ppb	81
52) 1,2-dichloropropane	10.210	63	217406	49.18	ppb	98
53) dibromomethane	10.186	93	154125	46.41	ppb	94
54) bromodichloromethane	10.298	83	329369	49.09	ppb	95
55) Methylcyclohexane	10.765	83	339170	41.28	ppb	# 83
56) 2-chloroethyl vinyl ether	10.689	63	39366	50.44	ppb	90
57) methyl methacrylate	10.409	69	106310	47.09	ppb	89
59) cis-1,3-dichloropropene	10.918	75	336578	53.06	ppb	87
61) 4-methyl-2-pentanone	11.030	43	240713	52.81	ppb	96
62) toluene	11.692	92	499538	49.37	ppb	97
63) trans-1,3-dichloropropene	11.339	75	255718	51.91	ppb	95
64) 1,1,2-trichloroethane	11.512	83	146529	48.46	ppb	97
65) ethyl methacrylate	11.723	69	199688	49.61	ppb	# 63
67) tetrachloroethene	12.434	166	231669	48.17	ppb	95
68) 1,3-dichloropropane	11.746	76	265940	51.48	ppb	94
69) dibromochloromethane	12.036	129	257837	48.06	ppb	94
70) 1,2-dibromoethane	12.289	107	191528	45.85	ppb	98
71) 2-hexanone	11.895	43	191073	65.97	ppb	97
72) chlorobenzene	13.114	112	551868	44.18	ppb	87
73) 1,1,1,2-tetrachloroethane	13.034	131	268227	48.78	ppb	95
74) ethylbenzene	13.290	91	909224	48.01	ppb	95
75) m,p-xylene	13.474	106	724794	94.75	ppb	89
76) o-xylene	13.887	106	393297	45.50	ppb	89
77) styrene	13.815	104	533026	44.20	ppb	94
78) bromoform	13.643	173	142446	42.97	ppb	100
79) trans-1,4-dichloro-2-b...	14.044	53	42669	38.18	ppb	# 38
81) isopropylbenzene	14.251	105	1069281	56.01	ppb	95
83) bromobenzene	14.539	156	248508	50.96	ppb	# 80
84) 1,1,2,2-tetrachloroethane	13.894	83	257417	56.95	ppb	98
85) 1,2,3-trichloropropane	14.043	75	223754	50.19	ppb	99
86) n-propylbenzene	14.696	91	1085499	54.06	ppb	93
87) 2-chlorotoluene	14.813	91	670598	52.51	ppb	87
88) 4-chlorotoluene	14.890	91	611086	51.14	ppb	87
89) 1,3,5-trimethylbenzene	14.973	105	1012193	59.03	ppb	93
90) tert-butylbenzene	15.278	91	564927	59.27	ppb	88
91) 1,2,4-trimethylbenzene	15.382	105	980005	54.70	ppb	97
92) sec-butylbenzene	15.501	105	1314028	57.77	ppb	95
93) 1,3-dichlorobenzene	15.604	146	488180	48.22	ppb	98
94) p-isopropyltoluene	15.675	119	1180303	58.40	ppb	96

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26601.D
 Acq On : 10 Mar 2015 9:56 am
 Operator : GaryK
 Sample : bs
 Misc : ms33945,msu1117,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:59:16 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

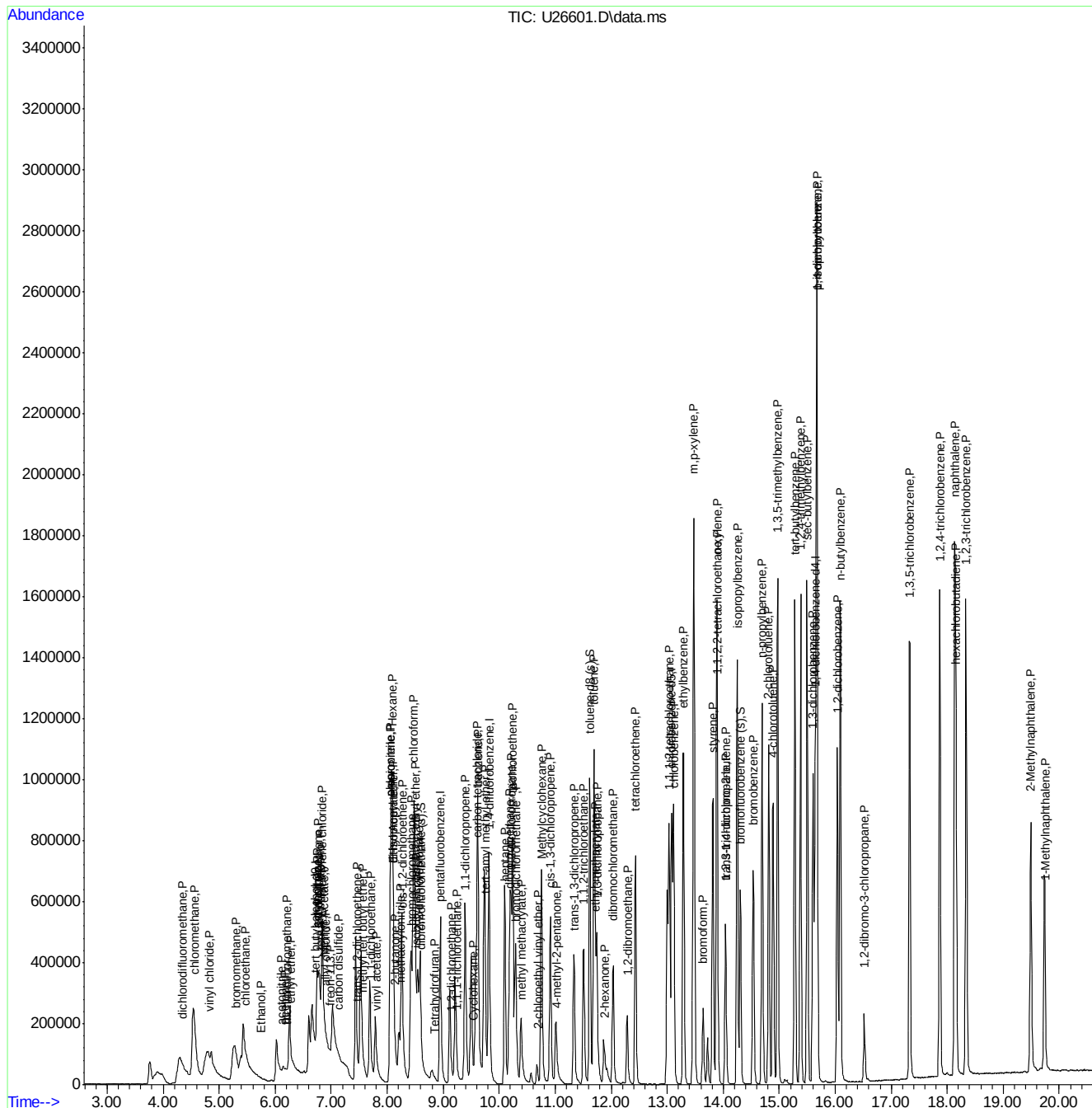
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.671	146	503341	47.80	ppb	100
96) 1,2-dichlorobenzene	16.040	146	551092	47.78	ppb	97
97) n-butylbenzene	16.094	91	998053	57.36	ppb	89
98) 1,2-dibromo-3-chloropr...	16.522	75	58539	47.45	ppb	79
99) 1,3,5-trichlorobenzene	17.331	180	522066	51.26	ug/L	95
100) 1,2,4-trichlorobenzene	17.869	180	563750	49.58	ppb	94
101) hexachlorobutadiene	18.158	225	214628	61.41	ppb	94
102) naphthalene	18.134	128	1490698	53.79	ppb	100
103) 2-Methylnaphthalene	19.497	142	529803	32.10	ug/L	96
104) 1-Methylnaphthalene	19.743	142	427866	33.89	ug/L	96
105) 1,2,3-trichlorobenzene	18.341	180	579930	57.60	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,5,1
ALS Vial : 3 Sample Multiplier: 1

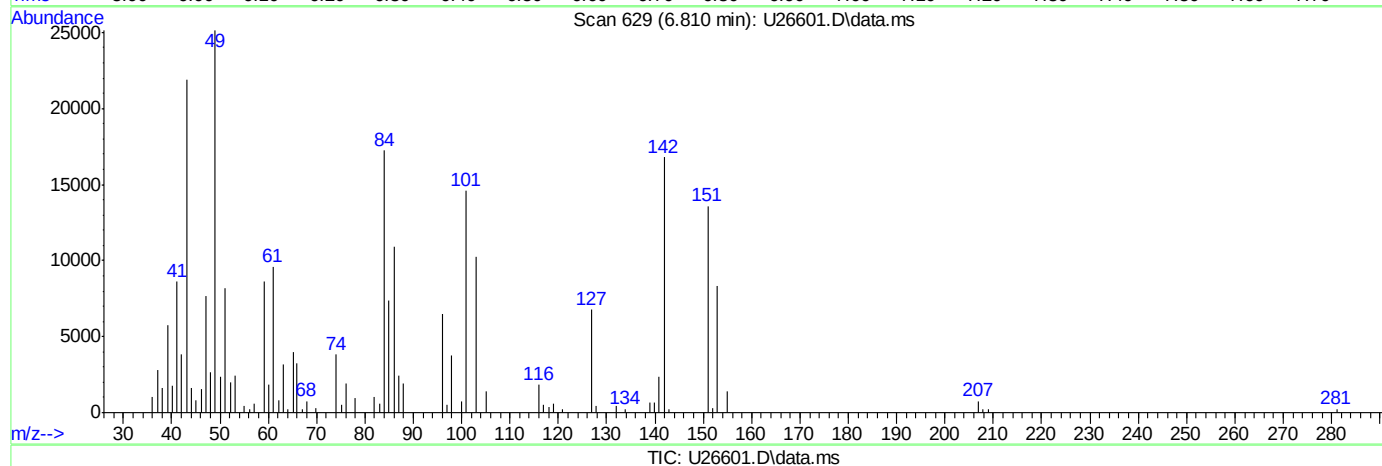
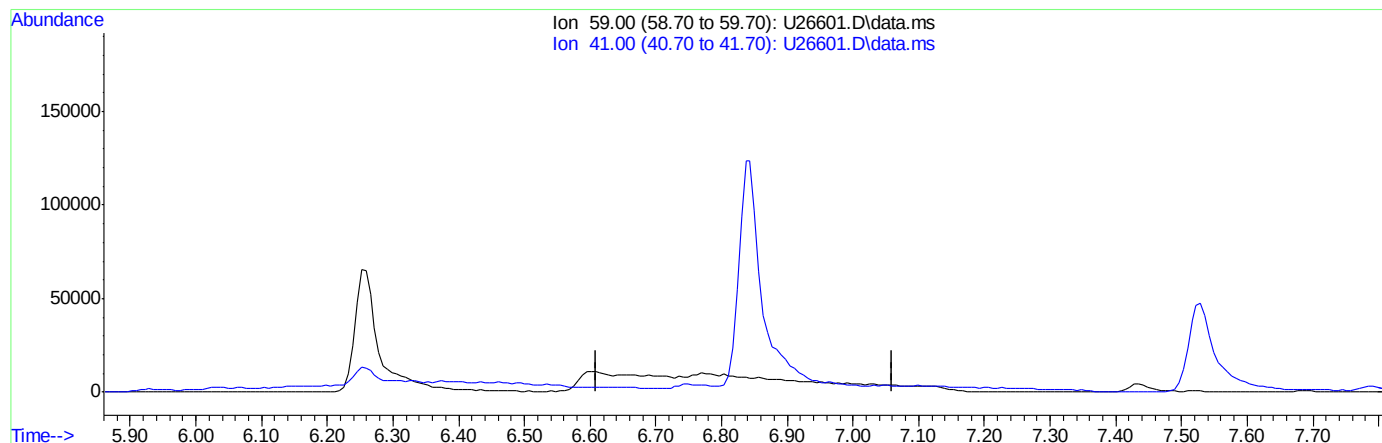
Quant Time: Mar 10 10:59:16 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.810min (-6.810) 0.00ppb

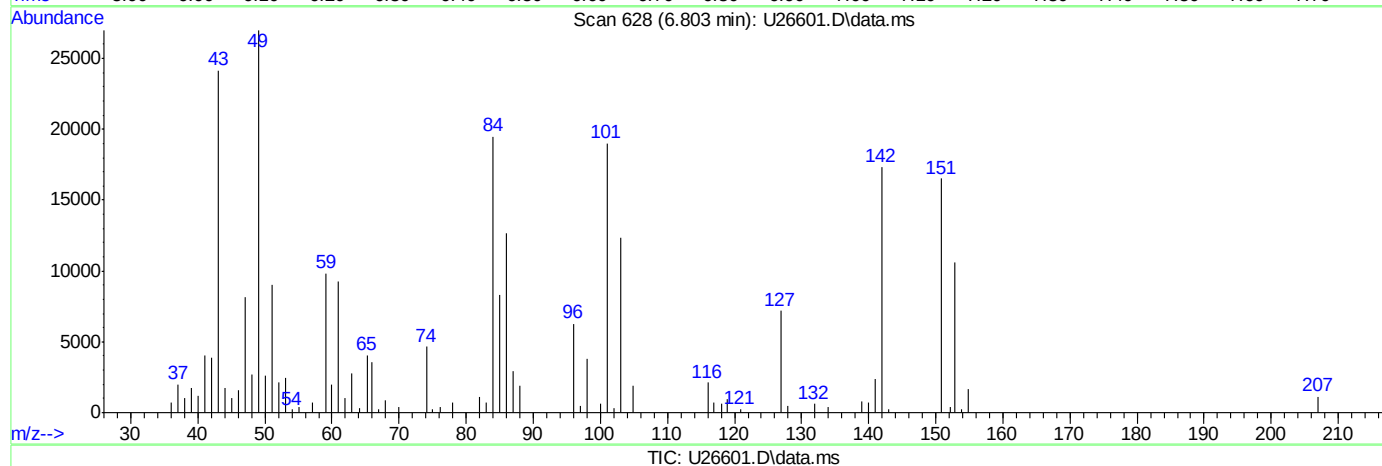
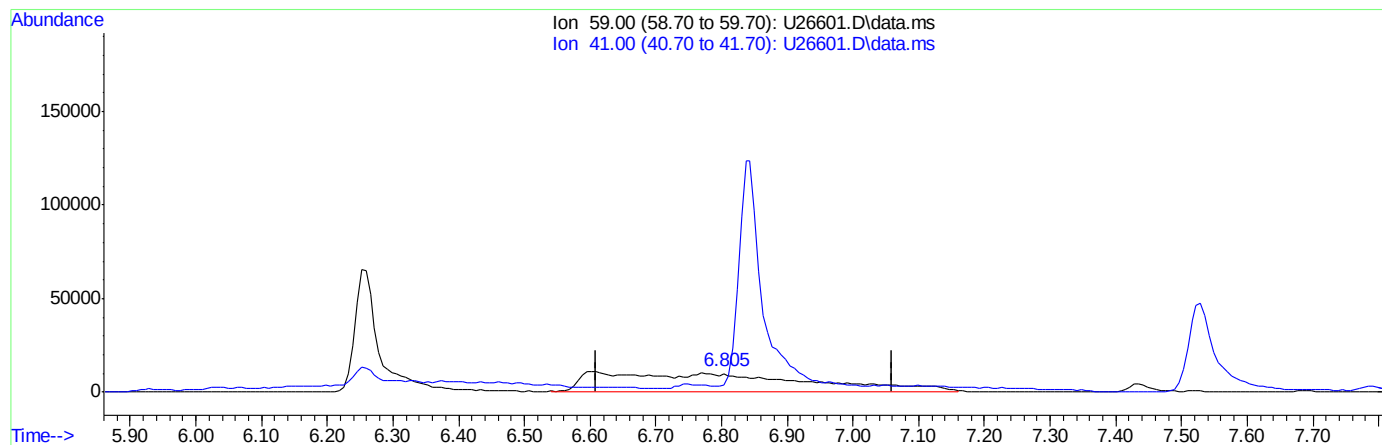
response 0

Ion	Exp%	Act%
59.00	100	0.00
41.00	23.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.803min (-0.007) 502.91ppb m

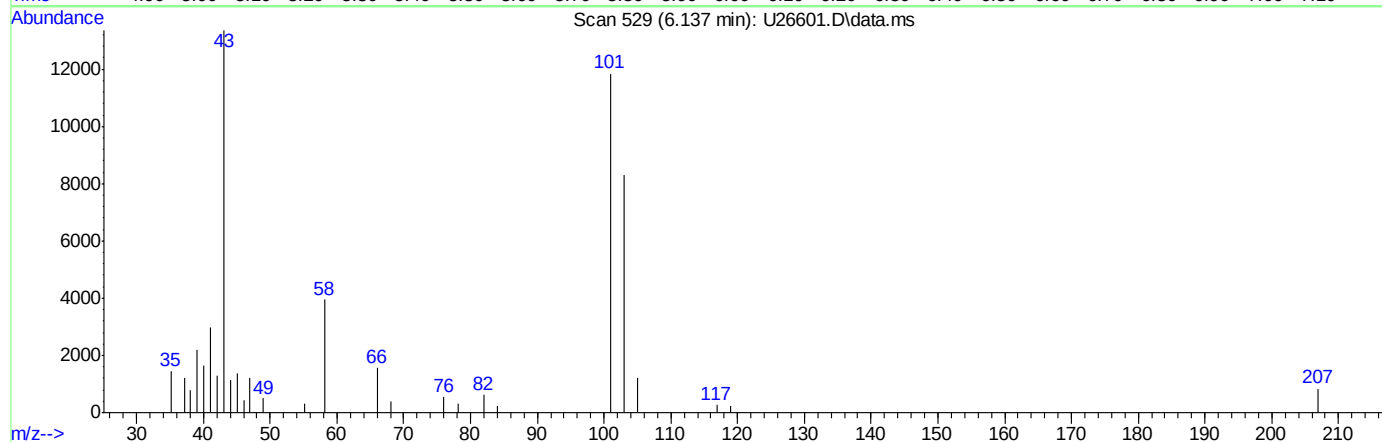
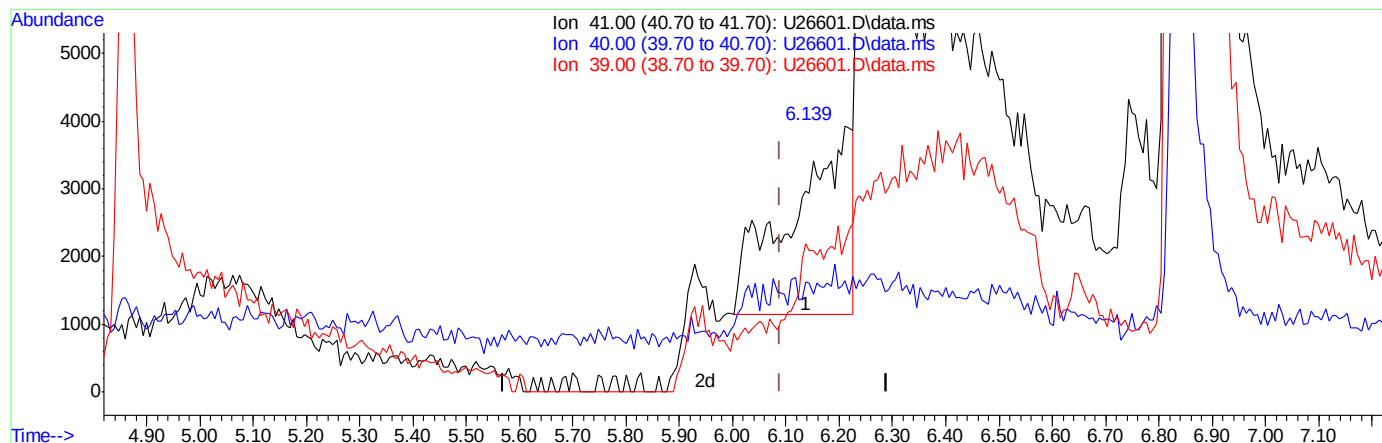
response 232841

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	41.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(11) acetonitrile (P)

6.139min (+0.049) 36.37ppb

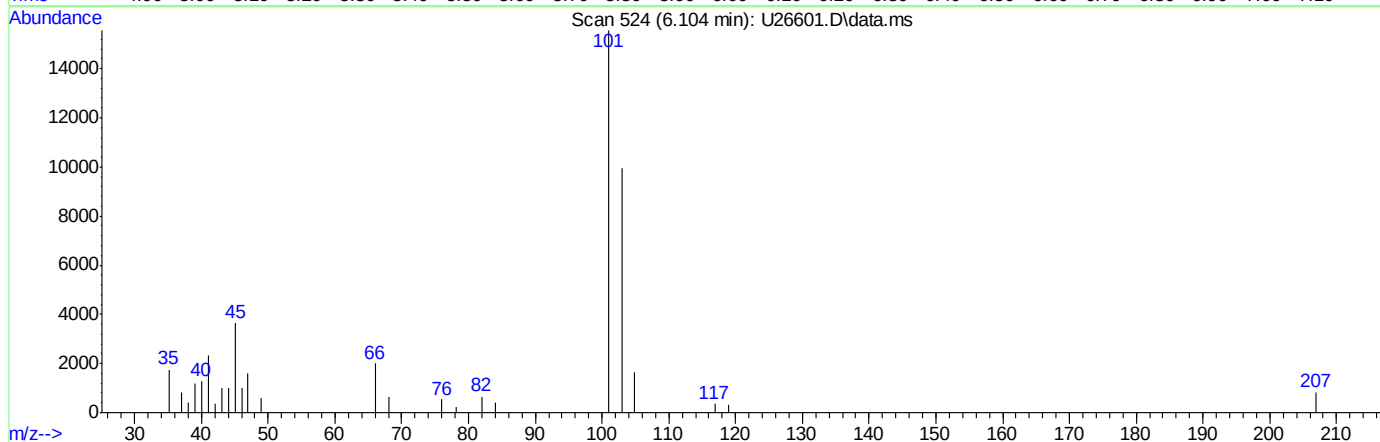
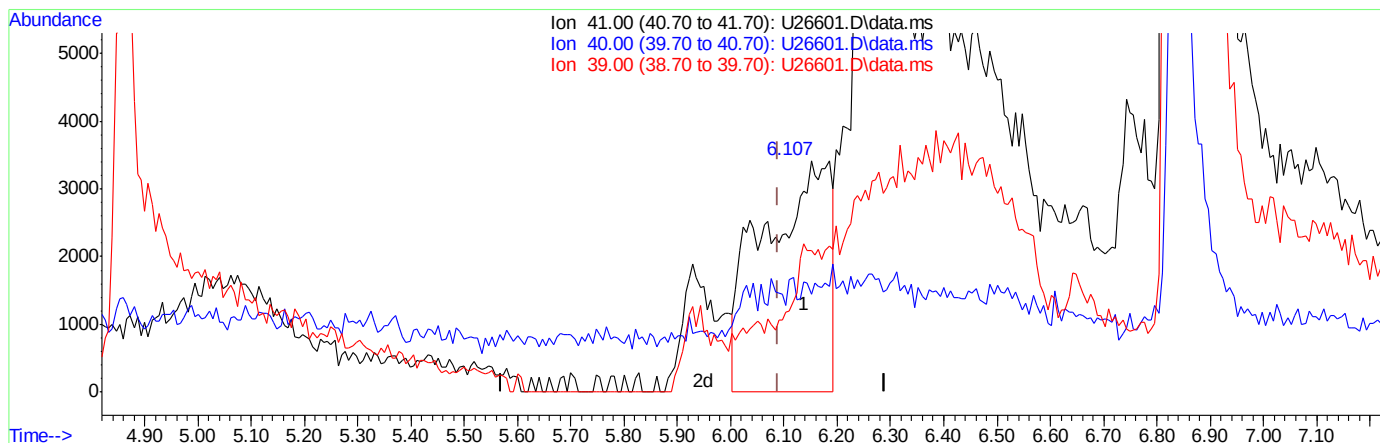
response 21705

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	34.87#
39.00	24.50	72.47#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(11) acetonitrile (P)

6.104min (+0.014) 50.57ppb m

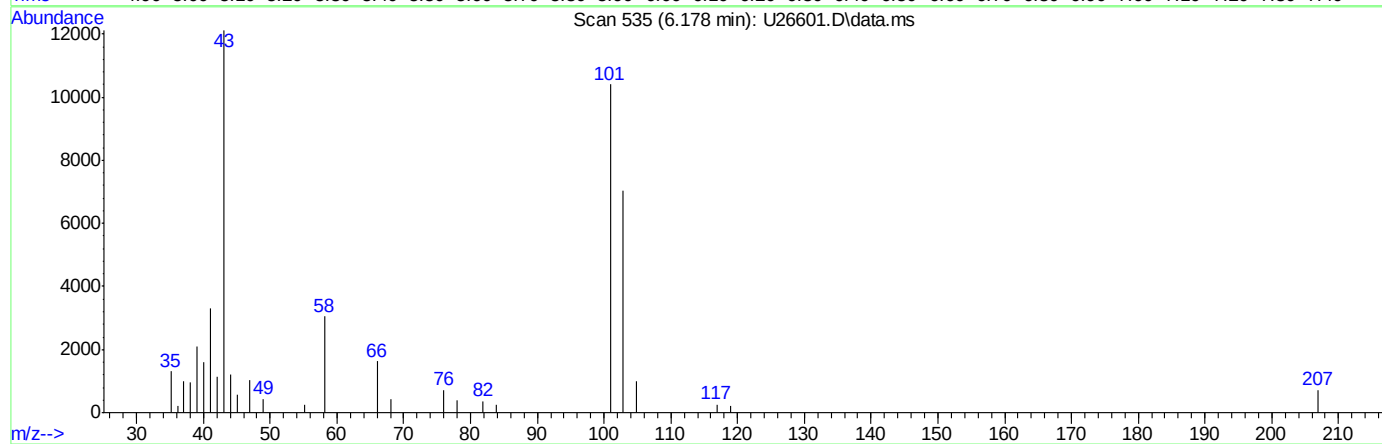
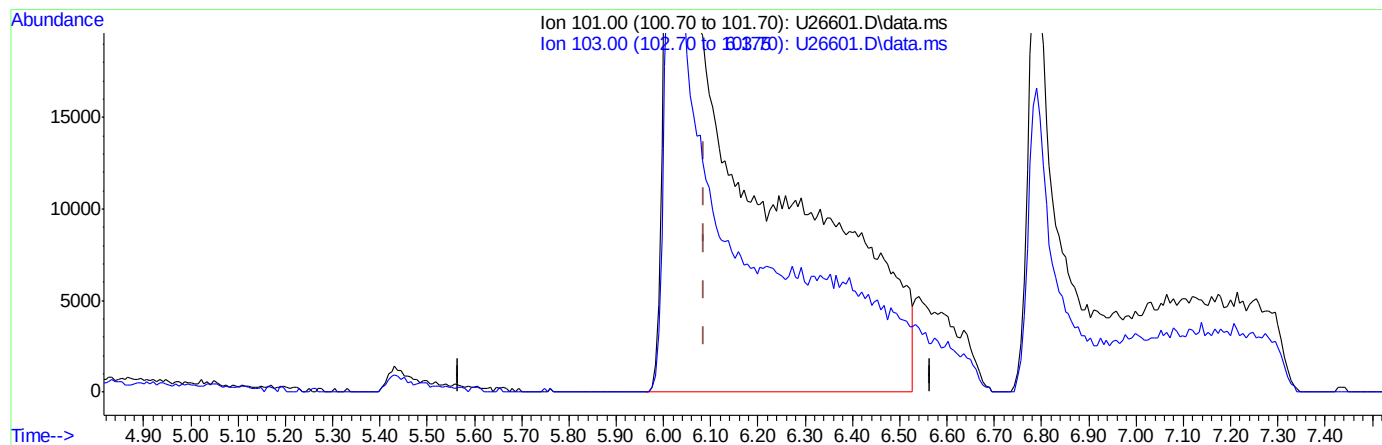
response 29378

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	54.90#
39.00	24.50	50.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.175min (+0.089) 51.71ppb

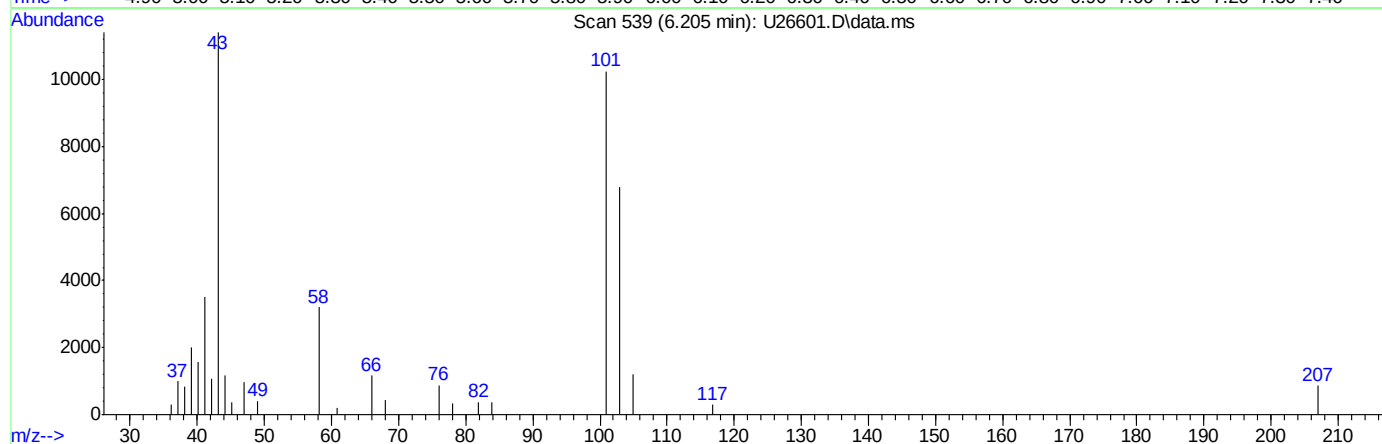
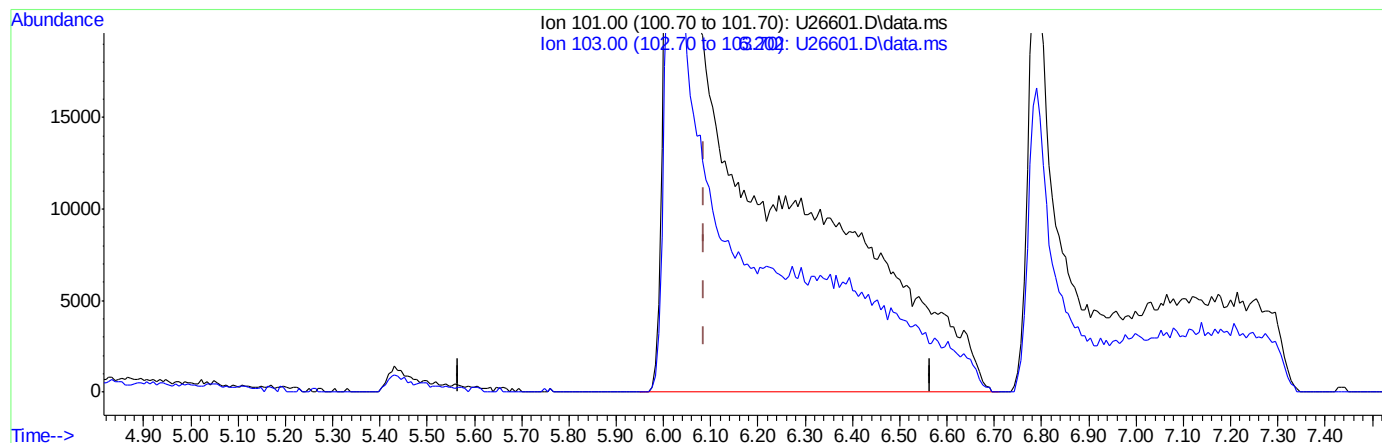
response 448546

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	67.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.205min (+0.119) 55.34ppb m

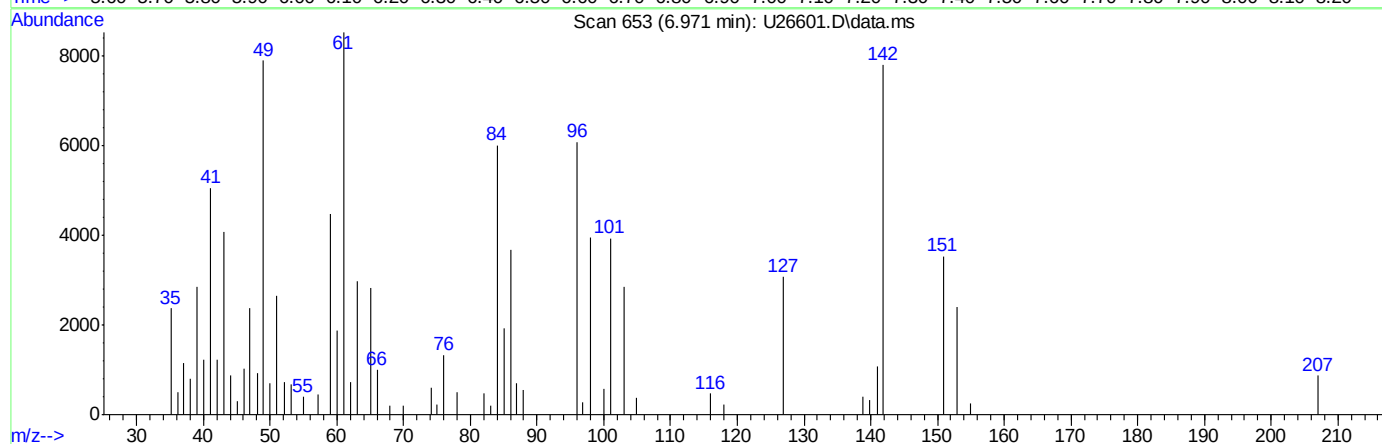
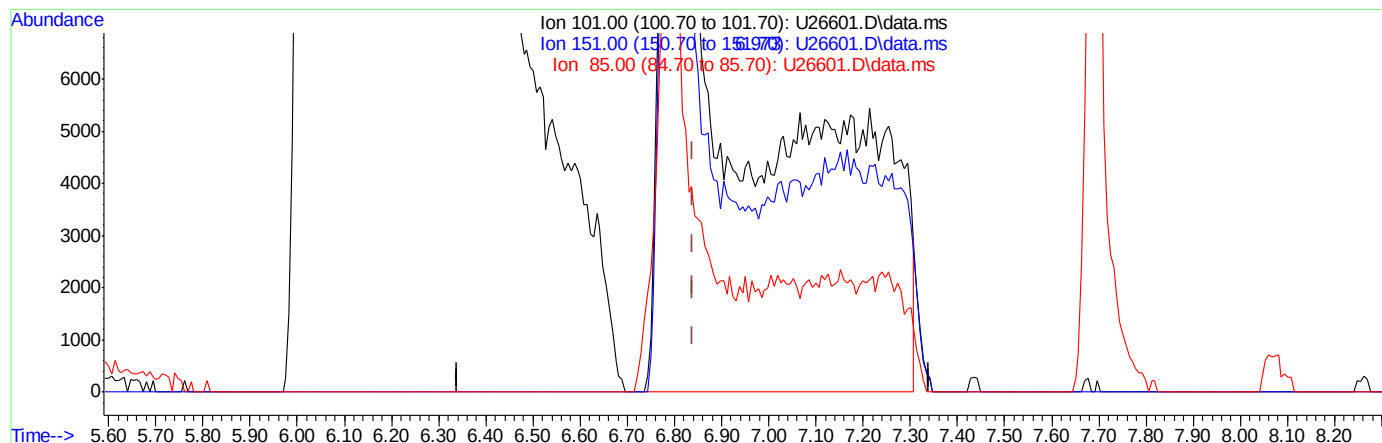
response 480049

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	66.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(13) freon-113 (P)

6.973min (+0.133) 30.88ppb

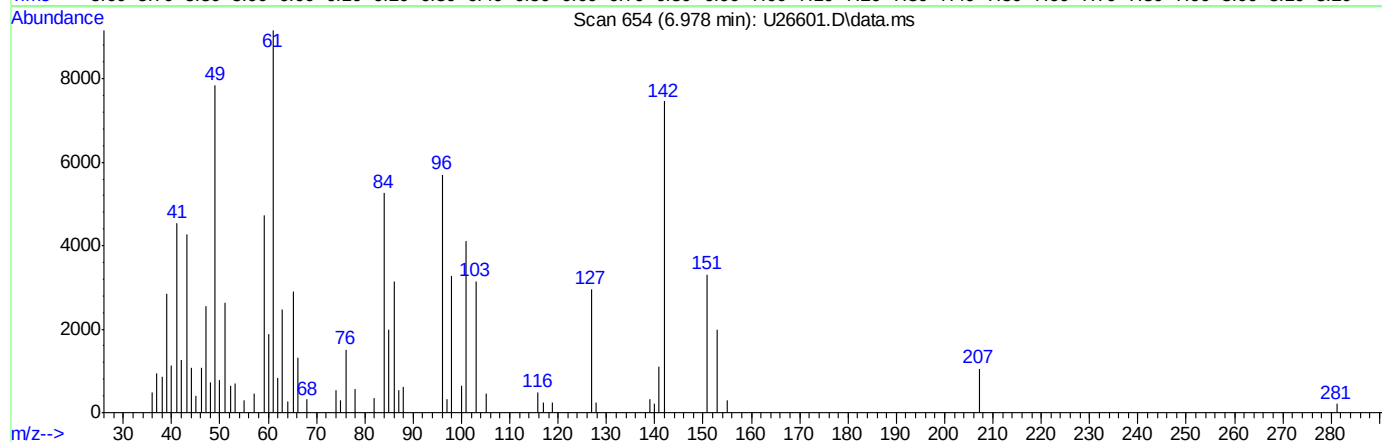
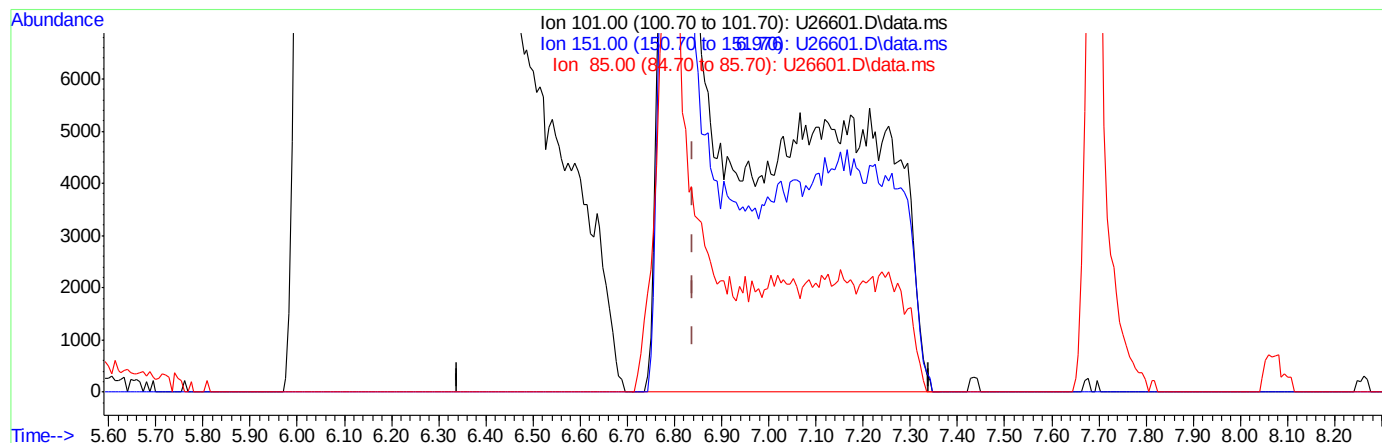
response 209659

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	89.63
85.00	45.00	29.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.978min (+0.138) 31.14ppb m

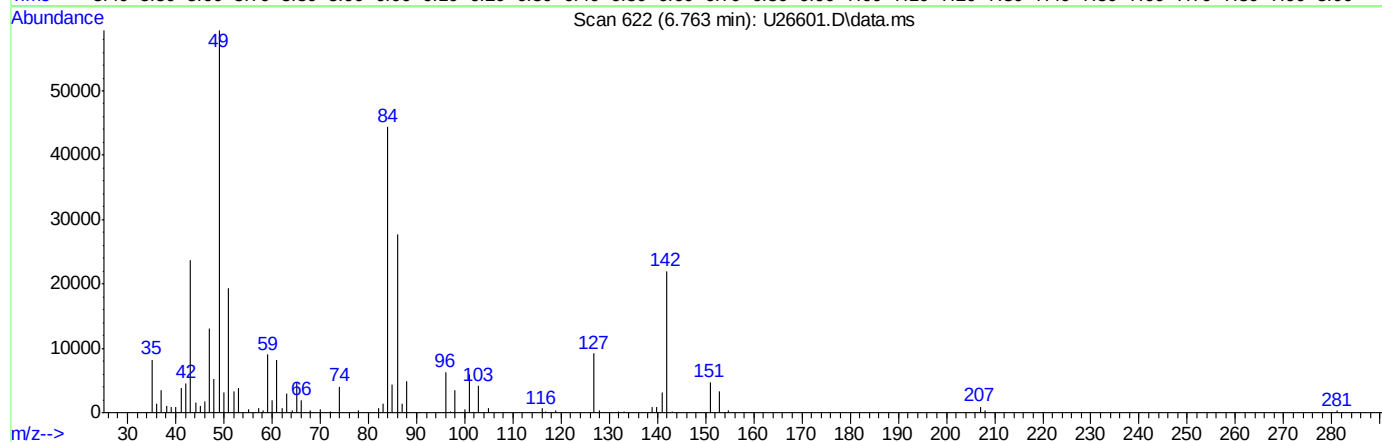
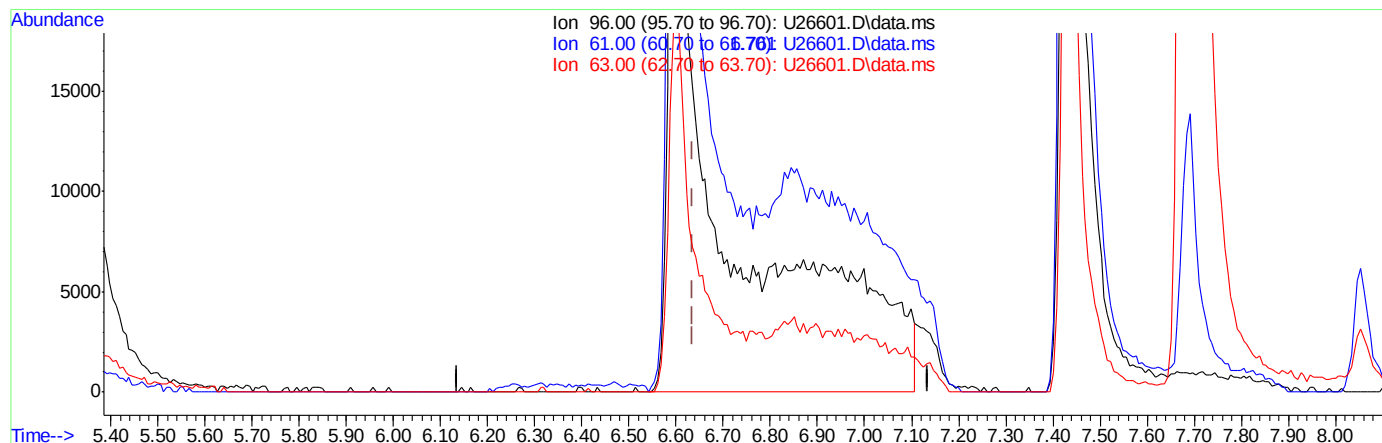
response 211427

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	80.46
85.00	45.00	48.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.761min (+0.126) 44.31ppb

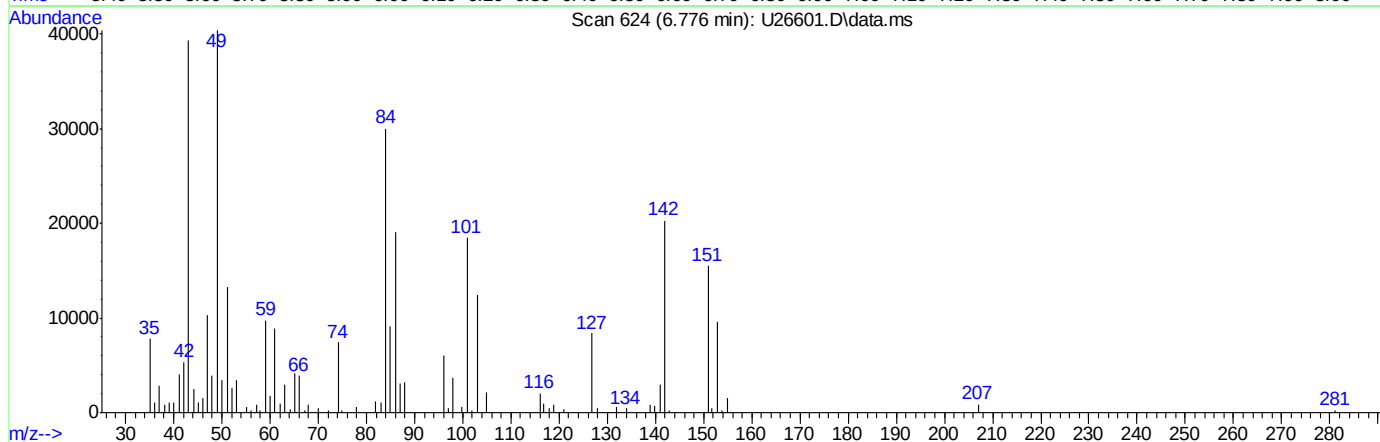
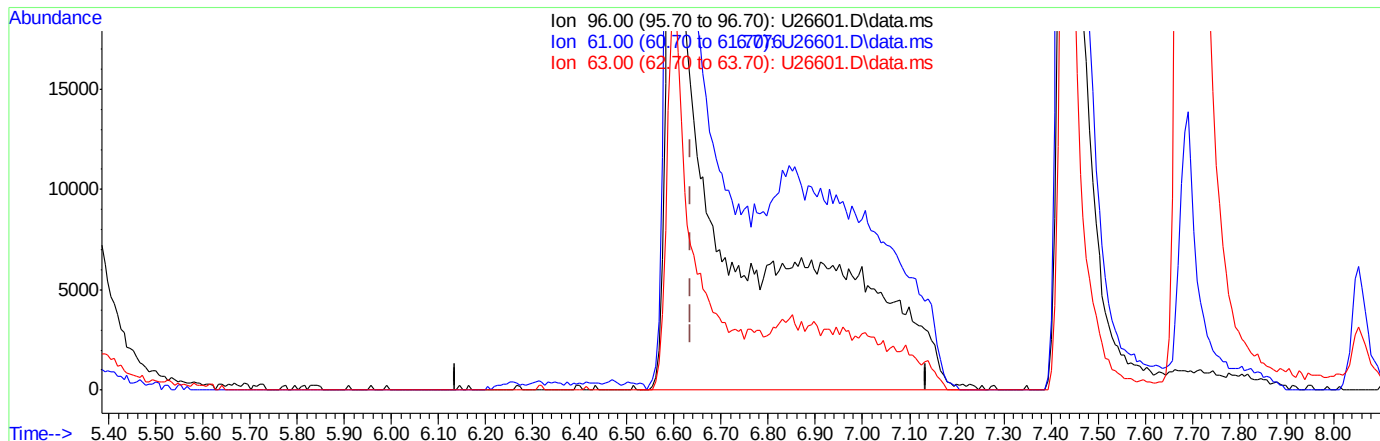
response 268147

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	128.21#
63.00	57.60	47.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.776min (+0.141) 46.10ppb m

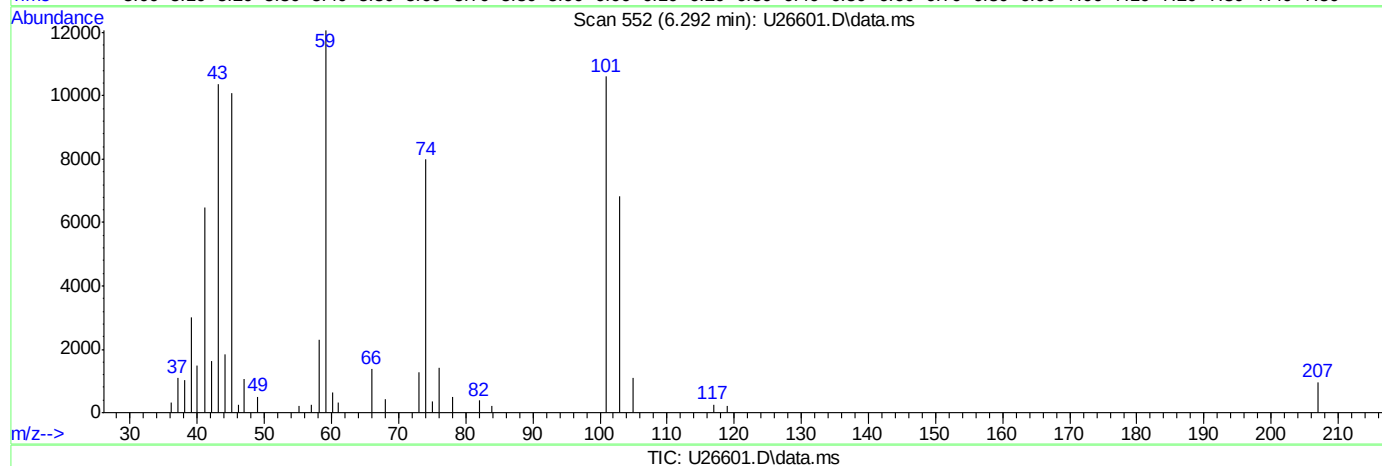
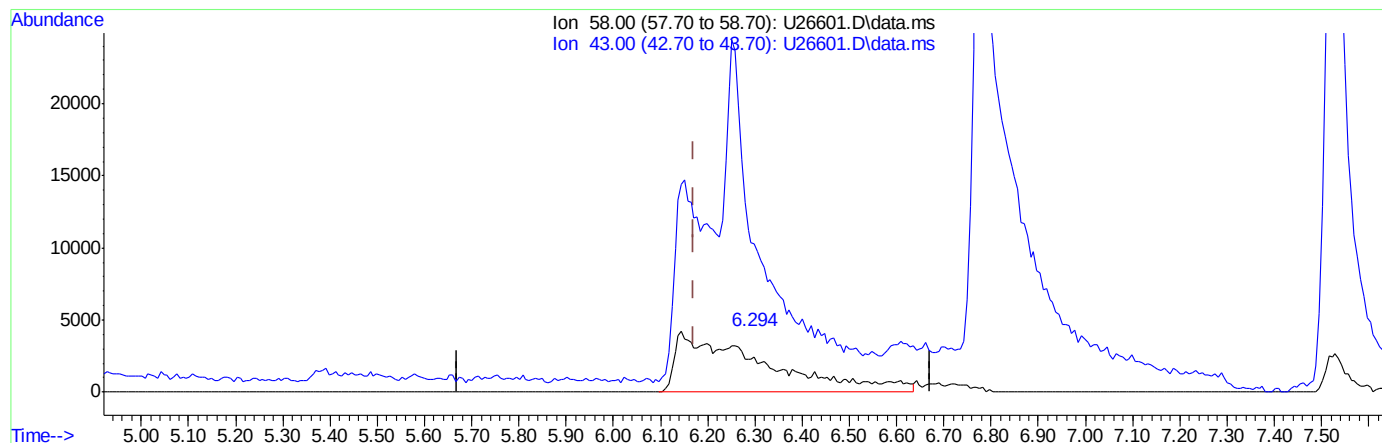
response 278969

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	146.71#
63.00	57.60	49.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.294min (+0.123) 123.21ppb

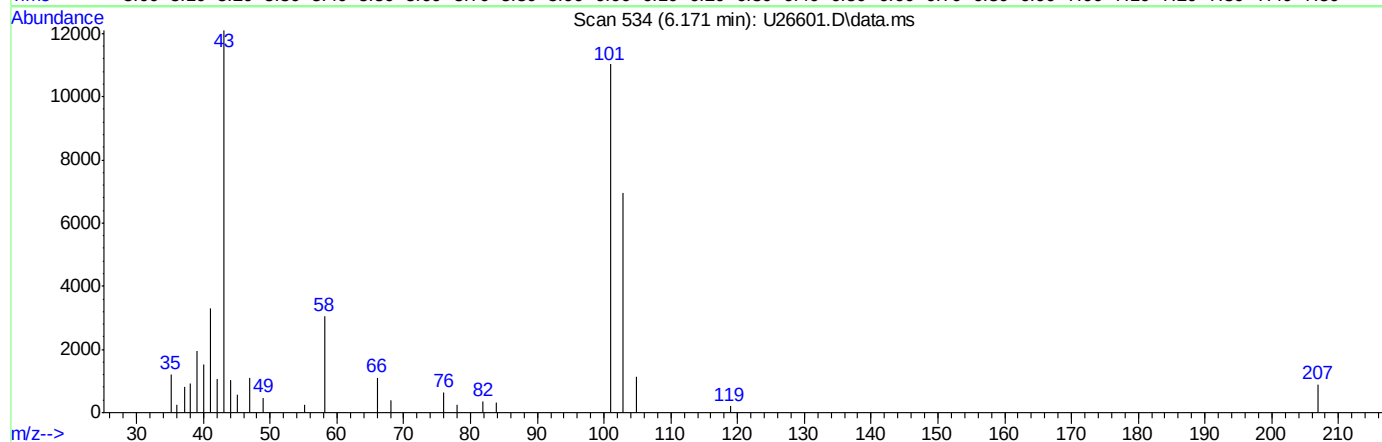
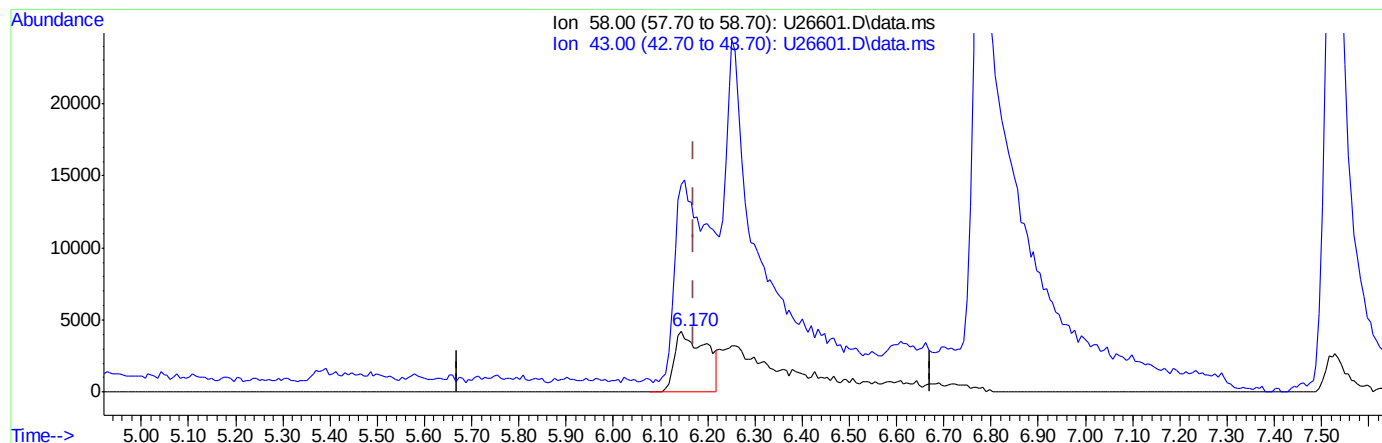
response 54236

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	415.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.171min (+0.000) 44.89ppb m

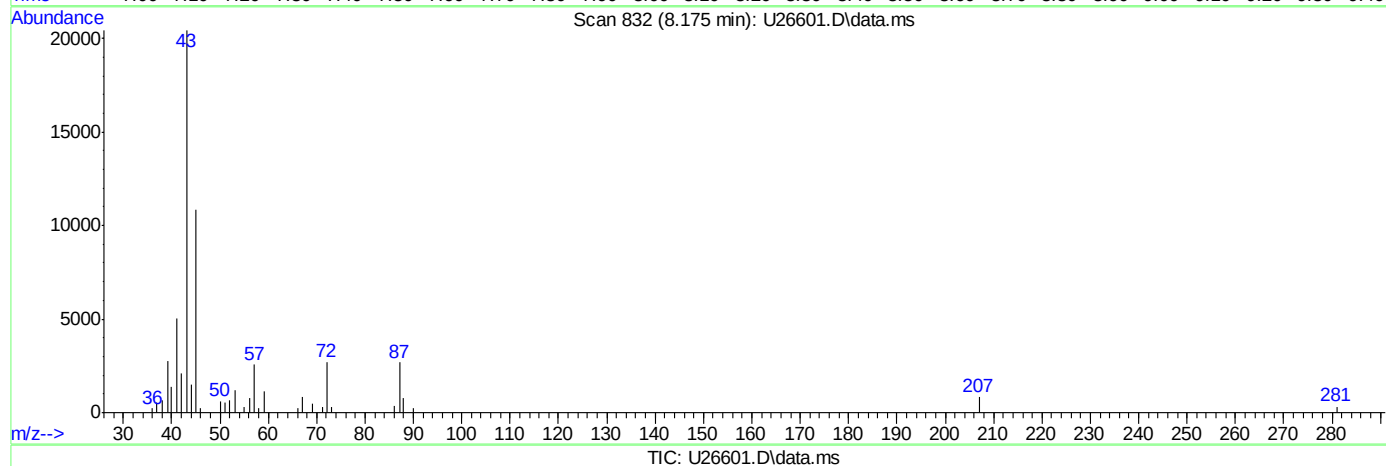
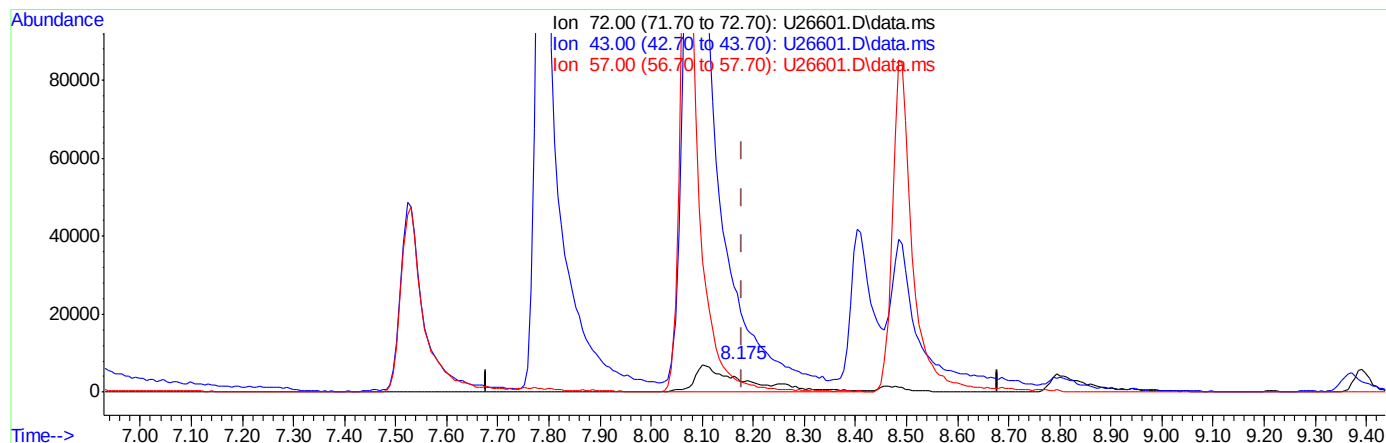
response 19760

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	394.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(30) 2-butanone (P)

8.175min (-0.004) 74.96ppb

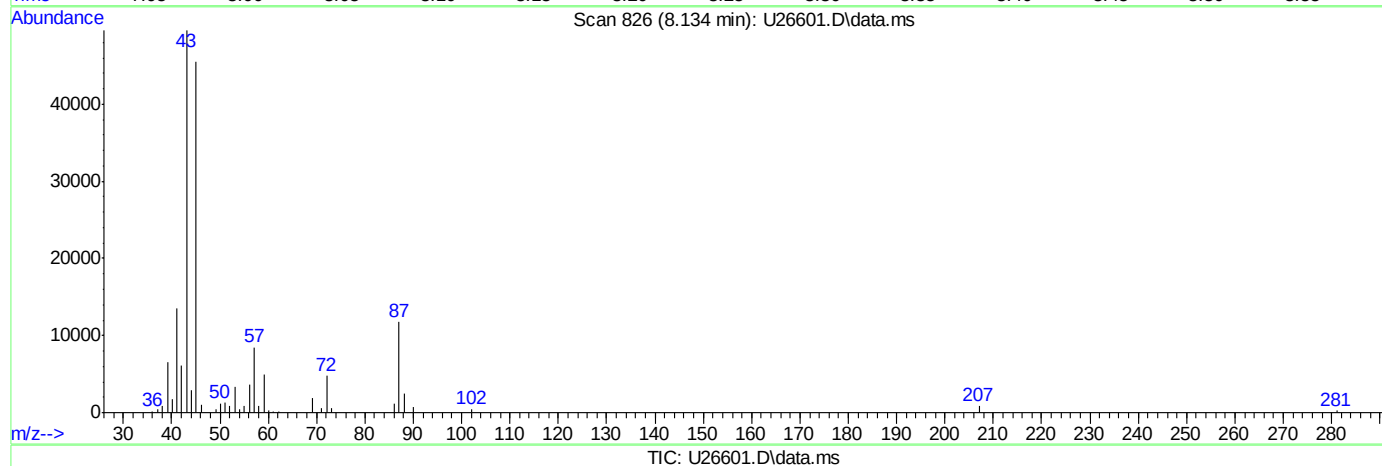
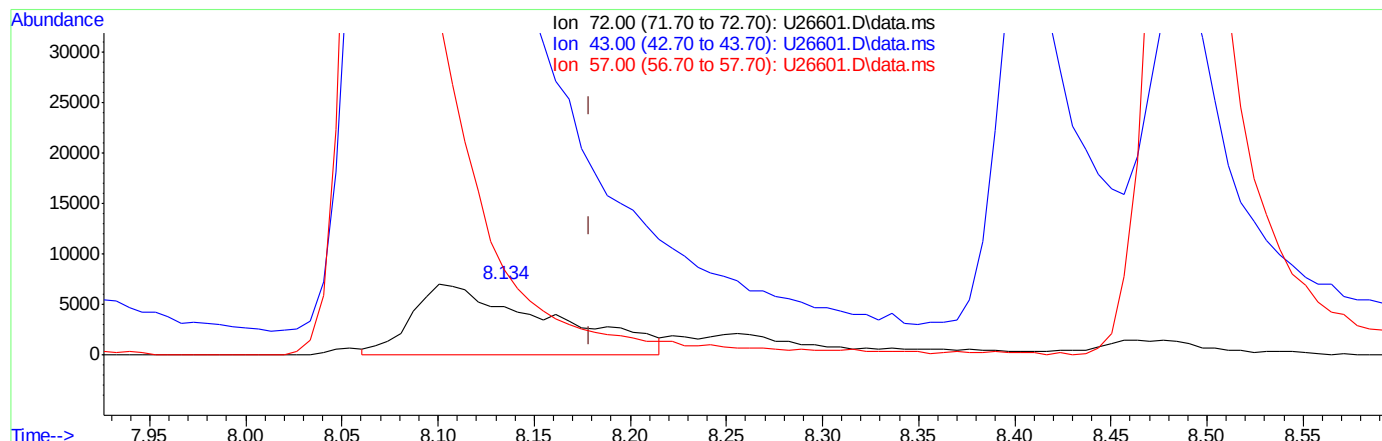
response 48508

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(30) 2-butanone (P)

8.134min (-0.045) 53.73ppb m

response 34772

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26584.D
 Acq On : 9 Mar 2015 4:17 pm
 Operator : GaryK
 Sample : mc37093-6ms
 Misc : ms33945,msu1116,,,,5,5
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:15:41 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.672	65	204643	500.00	ppb	-0.07
4) pentafluorobenzene	8.955	168	501246	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.823	114	793646	50.00	ppb	0.00
66) chlorobenzene-d5	13.078	82	319218	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.642	152	358290	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.594	113	267948	46.72	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.44%		
60) toluene-d8 (s)	11.619	98	815105	51.00	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	102.00%		
82) bromofluorobenzene (s)	14.308	95	270222	53.67	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.34%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.736	59	238308m	391.56	ppb	
3) Ethanol	5.666	45	134682	3971.93	ppb	85
5) dichlorodifluoromethane	4.337	85	404428	62.87	ppb	97
6) chloromethane	4.549	50	467104	53.73	ppb	100
7) vinyl chloride	4.820	62	395779	54.39	ppb	97
8) bromomethane	5.291	96	278858	54.58	ppb	98
9) chloroethane	5.462	64	173306	56.55	ppb	74
10) ethyl ether	6.275	59	193804	48.12	ppb	82
11) acetonitrile	6.097	41	42539m	71.28	ppb	
12) trichlorofluoromethane	6.198	101	472748m	50.94	ppb	
13) freon-113	6.975	101	206135	28.38	ppb	84
15) 1,1-dichloroethene	6.769	96	273184m	42.20	ppb	
16) acetone	6.164	58	14021m	29.77	ppb	
17) Methyl Acetate	6.829	43	243875	34.14	ppb	# 67
18) methylene chloride	6.823	84	314919	48.45	ppb	85
19) methyl tert butyl ether	7.549	73	681829	46.78	ppb	95
20) acrylonitrile	6.716	53	88197	40.92	ppb	95
21) allyl chloride	6.886	41	312190	39.45	ppb	96
22) trans-1,2-dichloroethene	7.459	96	253659	43.12	ppb	# 78
23) iodomethane	6.753	142	589400	47.42	ppb	96
24) carbon disulfide	7.134	76	773552	37.56	ppb	96
25) propionitrile	8.062	54	17953	41.94	ppb	100
26) vinyl acetate	7.805	43	530597	93.72	ppb	94
27) chloroprene	8.063	53	322836	42.81	ppb	89
28) di-isopropyl ether	8.104	45	807117	48.93	ppb	95
29) methacrylonitrile	8.226	41	154923	46.67	ppb	91
30) 2-butanone	8.152	72	31292	45.20	ppb	# 1
31) Ethyl Acetate	8.102	43	688659	46.65	ug/L	# 61
32) Hexane	8.085	41	362267	47.53	ppb	# 76
33) 1,1-dichloroethane	7.701	63	403977	43.21	ppb	95
34) tert-butyl ethyl ether	8.501	59	777287	47.23	ppb	88
35) isobutyl alcohol	8.523	43	157694	264.85	ppb	# 60
36) 2,2-dichloropropane	8.572	77	230340	38.66	ppb	88
37) cis-1,2-dichloroethene	8.269	96	291835	44.89	ppb	# 79

7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26584.D
 Acq On : 9 Mar 2015 4:17 pm
 Operator : GaryK
 Sample : mc37093-6ms
 Misc : ms33945,msu1116,,,,5,5
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:15:41 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.435	128	163377	44.11	ppb	# 54
39) chloroform	8.473	83	452601	45.60	ppb	100
41) Tetrahydrofuran	8.833	42	84330	48.92	ppb	93
42) 1,1,1-trichloroethane	9.244	97	330102	38.02	ppb	97
44) Cyclohexane	9.545	56	302834	30.66	ppb	# 77
45) carbon tetrachloride	9.598	117	296251	36.86	ppb	100
46) 1,1-dichloropropene	9.396	75	283548	44.31	ppb	90
47) benzene	9.620	78	888936	46.35	ppb	98
48) 1,2-dichloroethane	9.131	62	358888	48.00	ppb	95
49) tert-amyl methyl ether	9.746	73	699346	49.30	ppb	94
50) heptane	10.102	43	319479	55.23	ppb	# 30
51) trichloroethene	10.241	95	294635	49.96	ppb	81
52) 1,2-dichloropropane	10.209	63	228532	48.20	ppb	96
53) dibromomethane	10.184	93	168180	47.22	ppb	91
54) bromodichloromethane	10.296	83	337282	46.87	ppb	96
55) Methylcyclohexane	10.766	83	330787	37.54	ppb	# 84
57) methyl methacrylate	10.404	69	122076	50.42	ppb	84
59) cis-1,3-dichloropropene	10.917	75	311402	45.77	ppb	87
61) 4-methyl-2-pentanone	11.021	43	237753	48.64	ppb	97
62) toluene	11.692	92	517960	47.73	ppb	95
63) trans-1,3-dichloropropene	11.338	75	234933	44.47	ppb	91
64) 1,1,2-trichloroethane	11.510	83	163577	50.44	ppb	97
65) ethyl methacrylate	11.722	69	228019	52.82	ppb	# 64
67) tetrachloroethene	12.435	166	235768	44.16	ppb	97
68) 1,3-dichloropropane	11.745	76	295254	51.48	ppb	93
69) dibromochloromethane	12.035	129	255866	42.96	ppb	95
70) 1,2-dibromoethane	12.288	107	215828	46.54	ppb	96
71) 2-hexanone	11.907	43	131099	40.77	ppb	91
72) chlorobenzene	13.115	112	593574	42.80	ppb	87
73) 1,1,1,2-tetrachloroethane	13.033	131	279240	45.74	ppb	97
74) ethylbenzene	13.290	91	964831	45.89	ppb	94
75) m,p-xylene	13.474	106	762160	89.74	ppb	91
76) o-xylene	13.887	106	415472	43.29	ppb	91
77) styrene	13.815	104	585231	43.71	ppb	95
78) bromoform	13.642	173	132915	36.12	ppb	99
79) trans-1,4-dichloro-2-b...	14.048	53	5731	4.62	ppb	# 1
81) isopropylbenzene	14.251	105	1090794	49.91	ppb	95
83) bromobenzene	14.539	156	277899	49.77	ppb	# 77
84) 1,1,2,2-tetrachloroethane	13.893	83	257147	49.69	ppb	99
85) 1,2,3-trichloropropane	14.043	75	207052	40.56	ppb	100
86) n-propylbenzene	14.696	91	1132200	49.26	ppb	93
87) 2-chlorotoluene	14.813	91	715795	48.96	ppb	87
88) 4-chlorotoluene	14.890	91	672102	49.13	ppb	88
89) 1,3,5-trimethylbenzene	14.973	105	1054758	53.73	ppb	95
90) tert-butylbenzene	15.278	91	572693	52.48	ppb	85
91) 1,2,4-trimethylbenzene	15.382	105	1044956	50.95	ppb	97
92) sec-butylbenzene	15.501	105	1324317	50.85	ppb	96
93) 1,3-dichlorobenzene	15.604	146	540112	46.60	ppb	99
94) p-isopropyltoluene	15.674	119	1208865	52.24	ppb	96
95) 1,4-dichlorobenzene	15.671	146	555271	46.06	ppb	99

7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:15:41 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

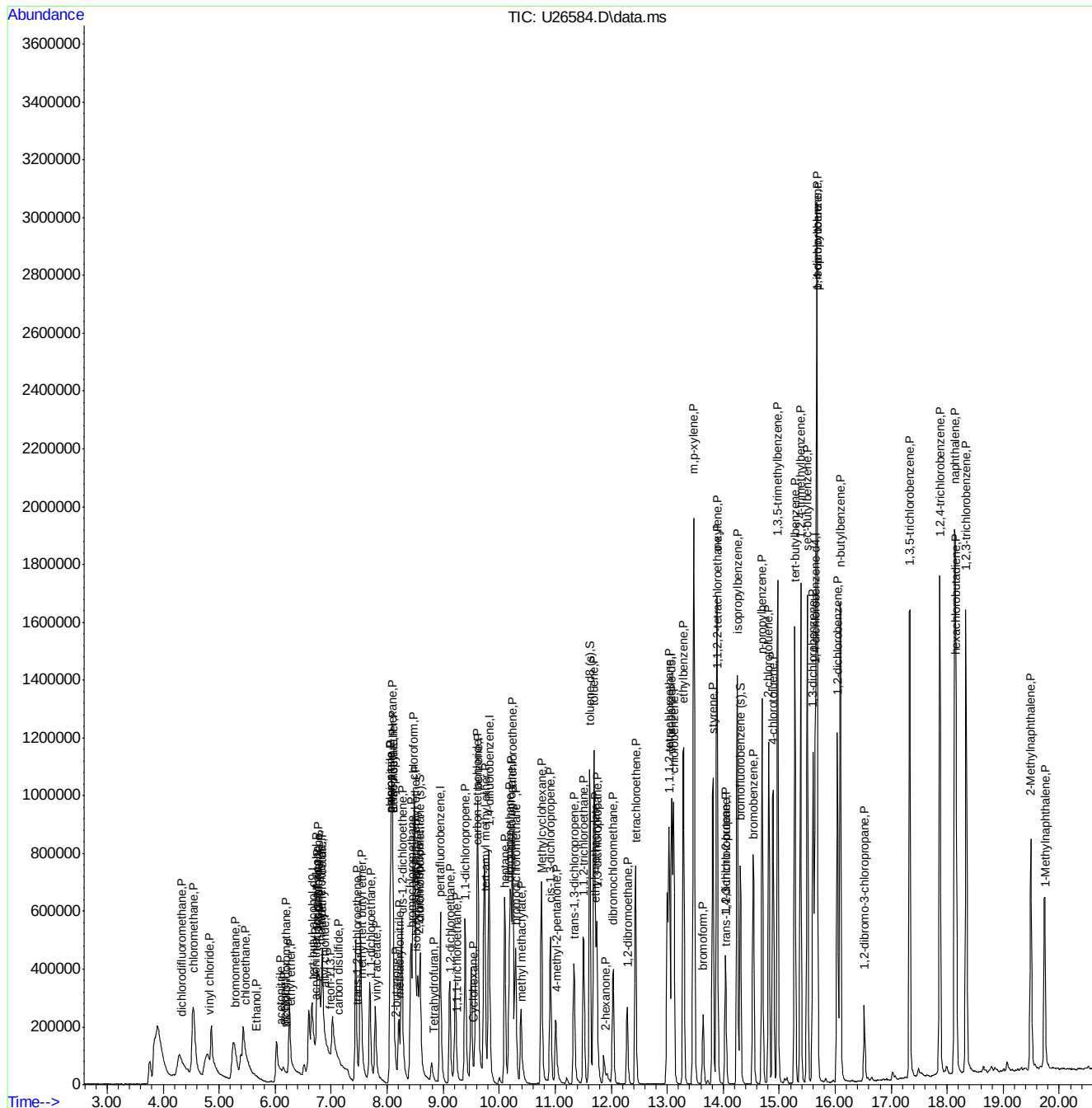
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2-dichlorobenzene	16.040	146	610642	46.24	ppb	97
97) n-butylbenzene	16.094	91	1052704	52.85	ppb	89
98) 1,2-dibromo-3-chloropr...	16.523	75	68208	48.29	ppb #	67
99) 1,3,5-trichlorobenzene	17.331	180	575150	49.33	ug/L	97
100) 1,2,4-trichlorobenzene	17.869	180	611729	46.99	ppb	94
101) hexachlorobutadiene	18.158	225	233075	58.25	ppb	91
102) naphthalene	18.135	128	1631716	51.43	ppb	100
103) 2-Methylnaphthalene	19.498	142	511669	27.08	ug/L	97
104) 1-Methylnaphthalene	19.744	142	402781	27.86	ug/L	97
105) 1,2,3-trichlorobenzene	18.341	180	598694	51.94	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,5,5
ALS Vial : 17 Sample Multiplier: 1

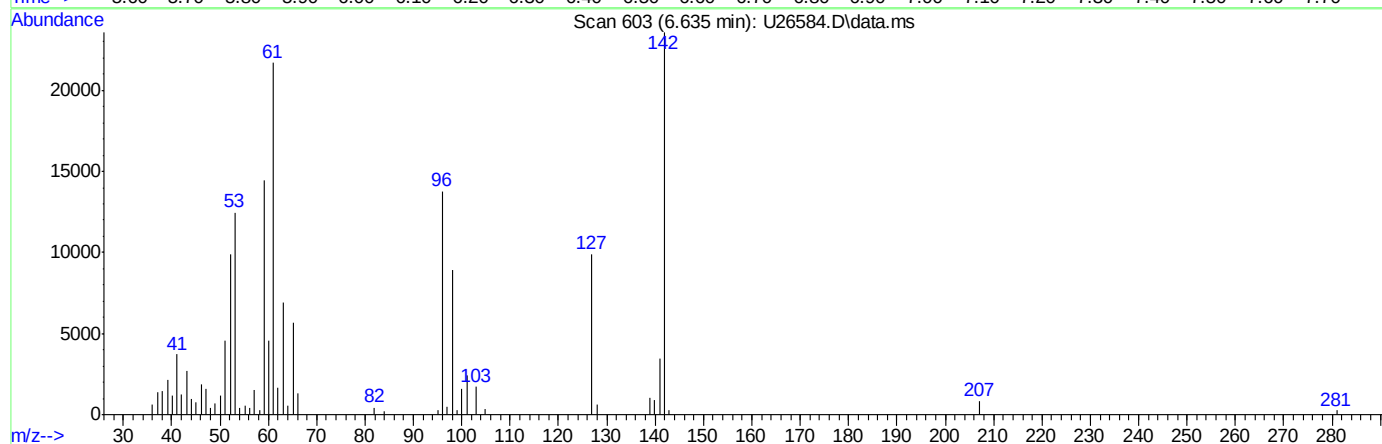
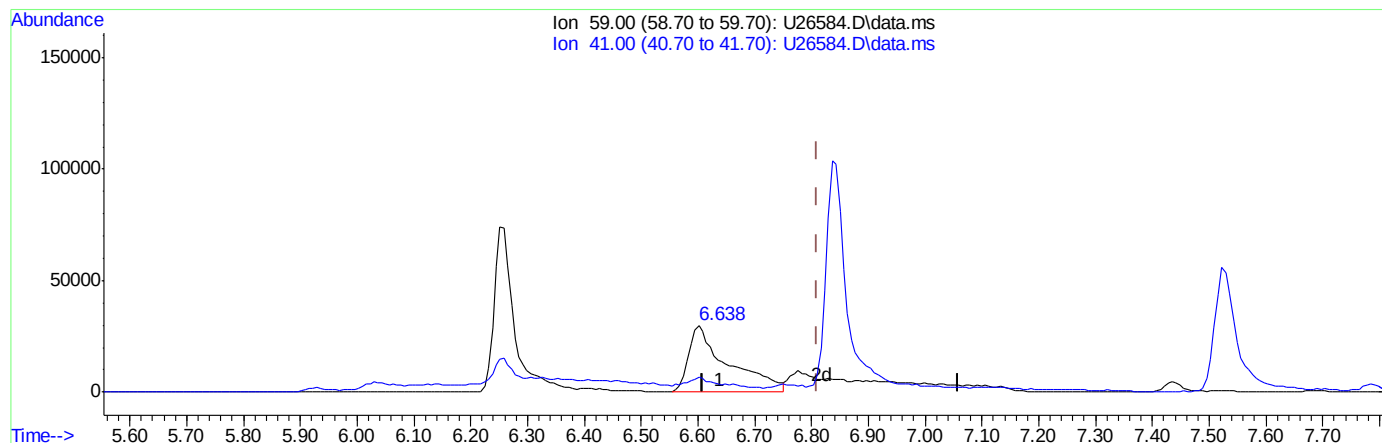
Quant Time: Mar 10 09:15:41 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.638min (-0.172) 228.40ppb

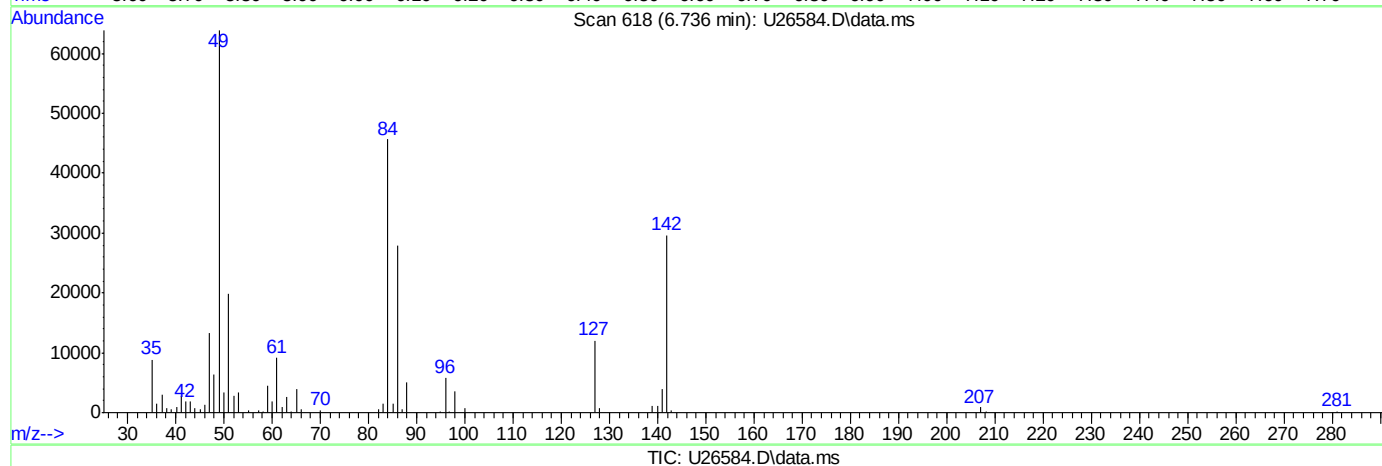
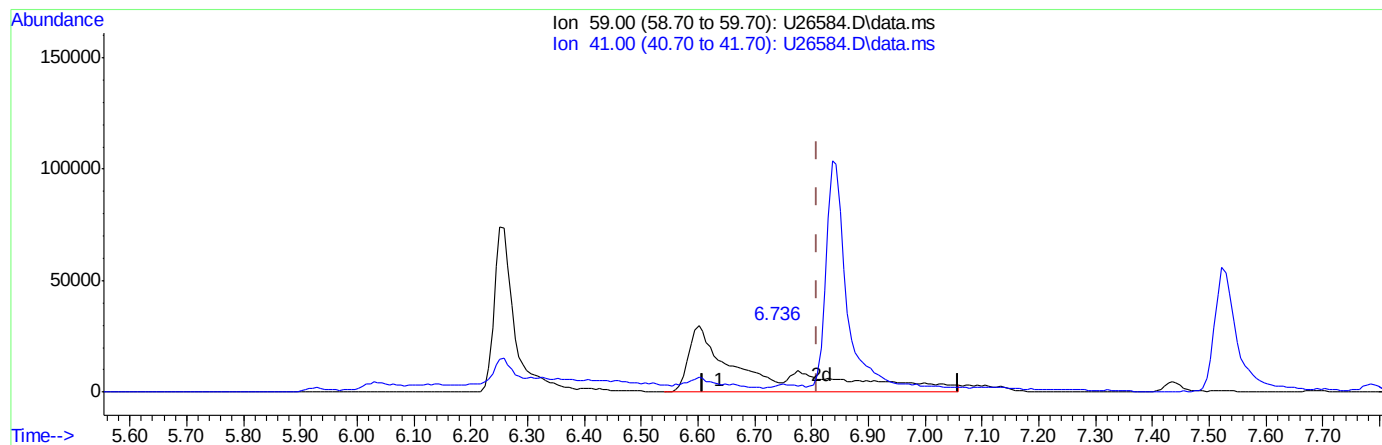
response 139008

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	6.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.736min (-0.074) 391.56ppb m

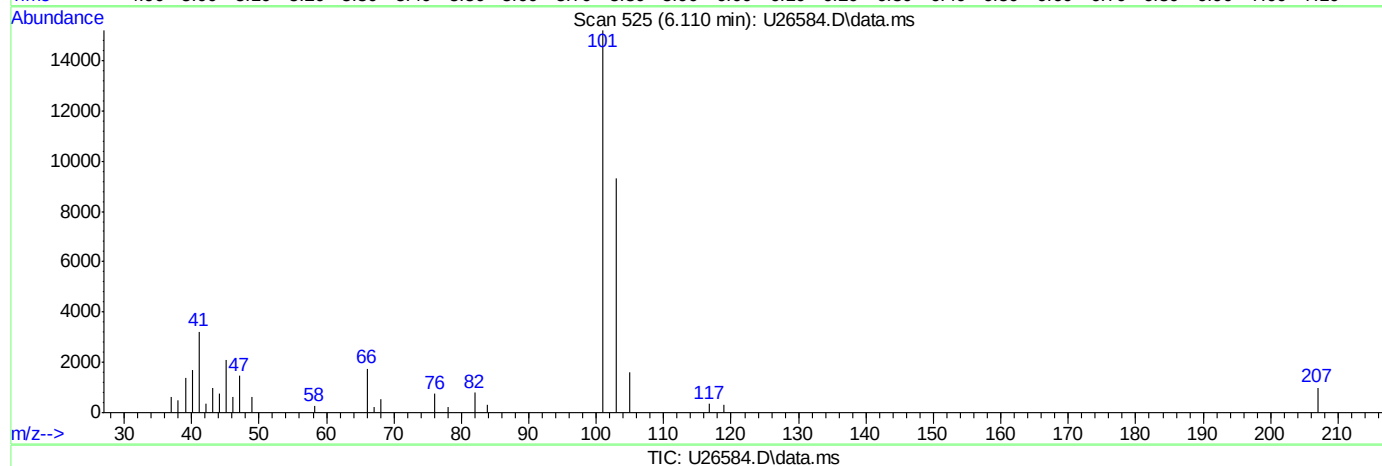
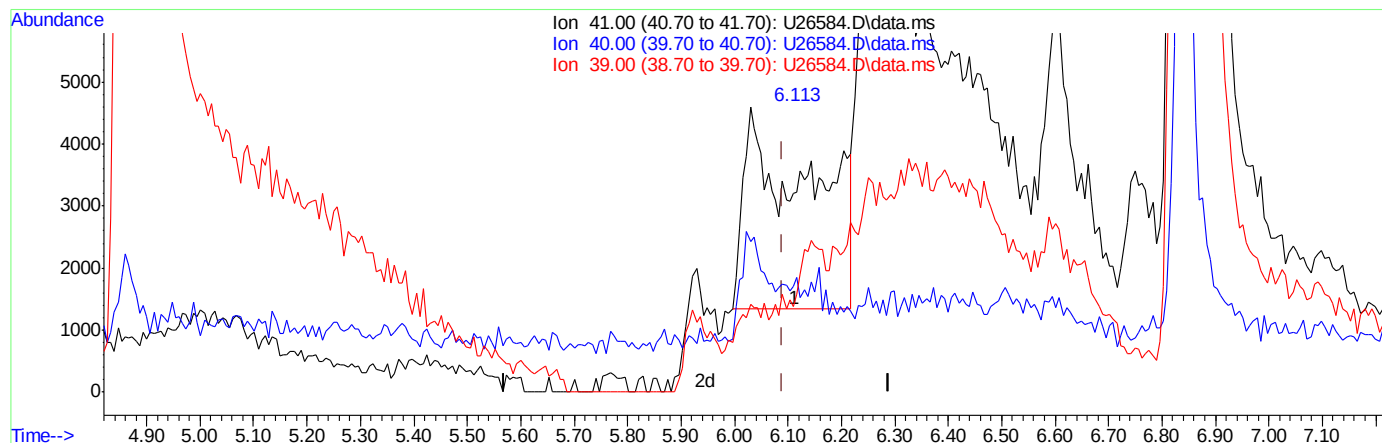
response 238308

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	60.41#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(11) acetonitrile (P)

6.113min (+0.023) 44.16ppb

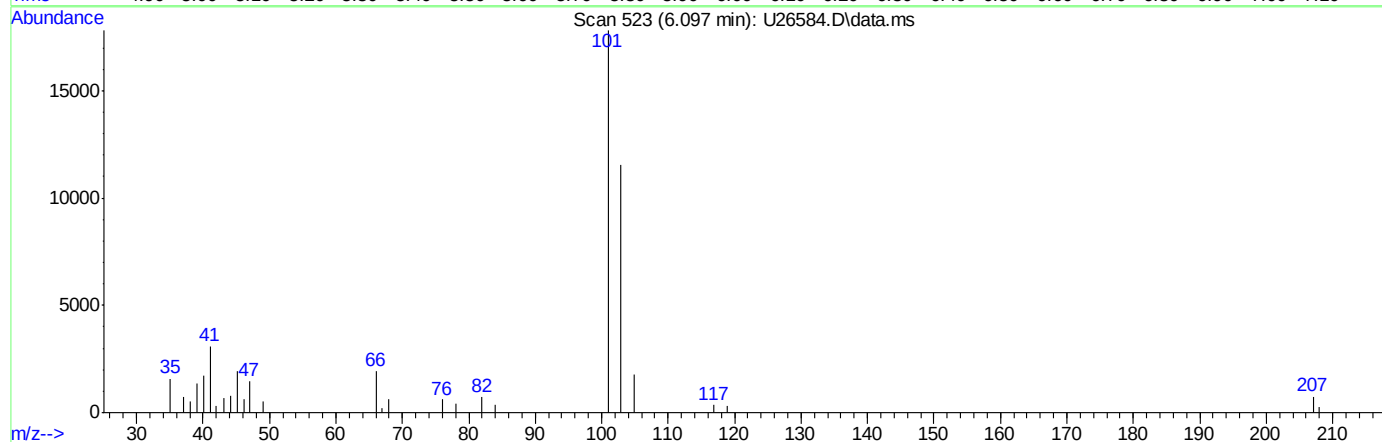
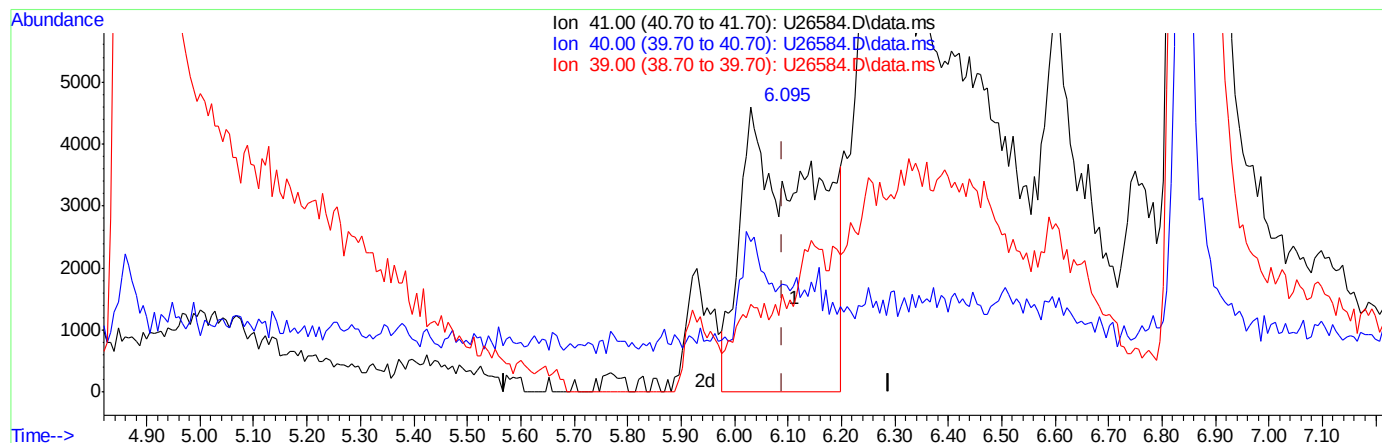
response 27785

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	45.67#
39.00	24.50	31.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26584.D\data.ms

(11) acetonitrile (P)

6.097min (+0.007) 71.28ppb m

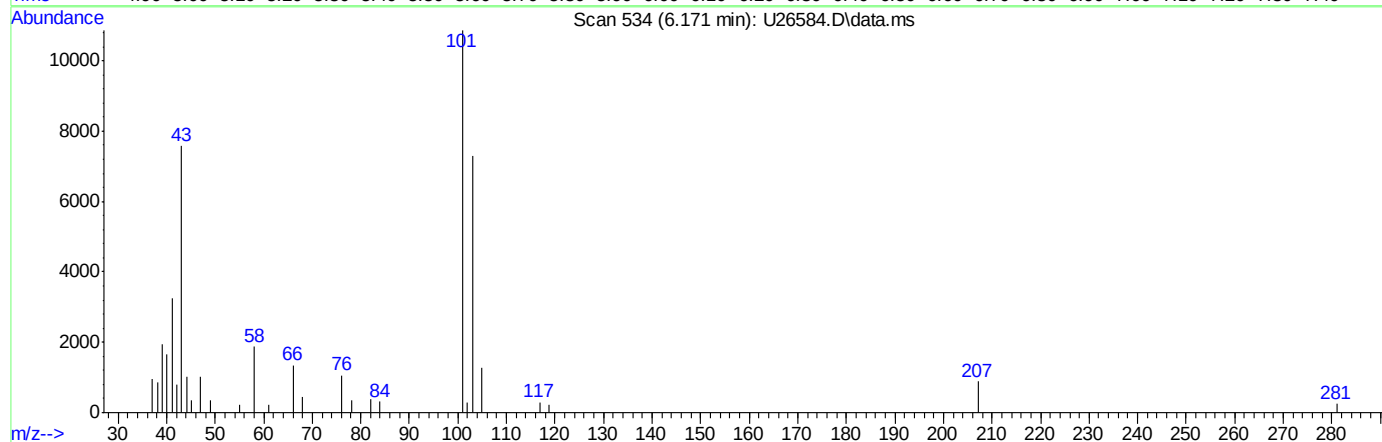
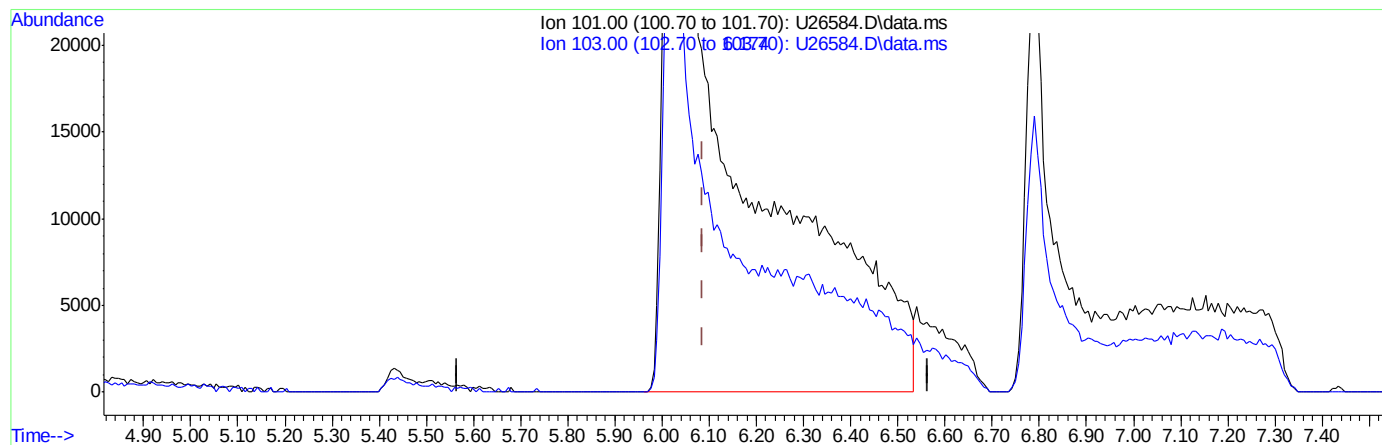
response 42539

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	55.37#
39.00	24.50	43.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.174min (+0.088) 48.16ppb

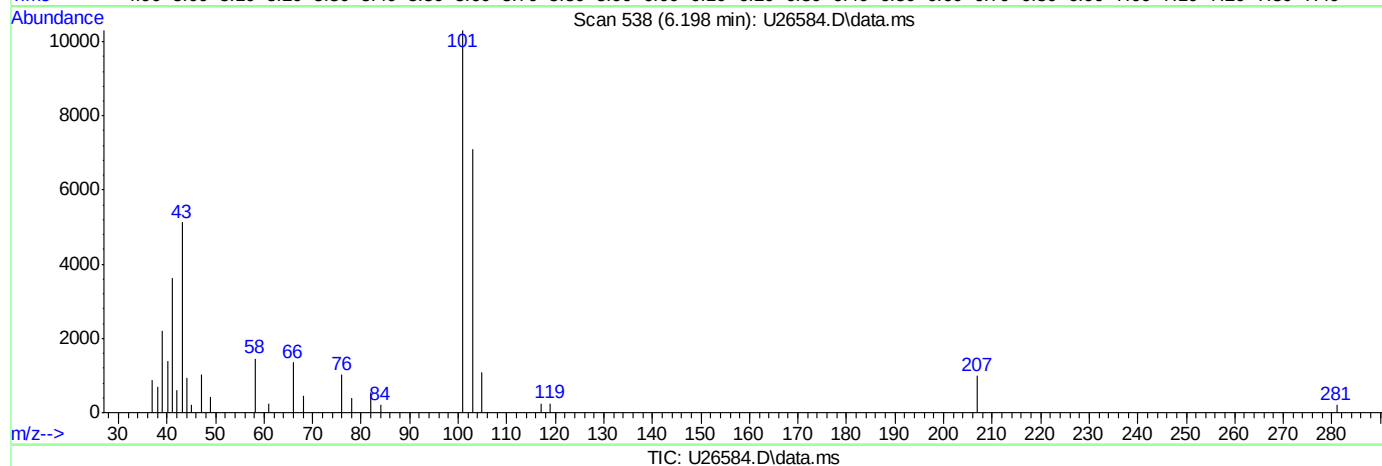
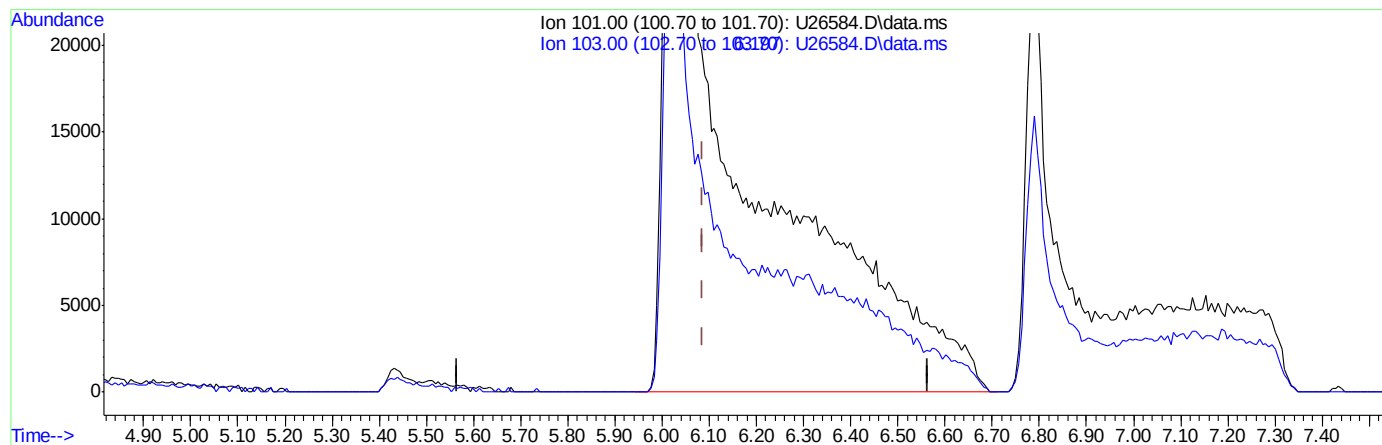
response 446924

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	67.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.198min (+0.112) 50.94ppb m

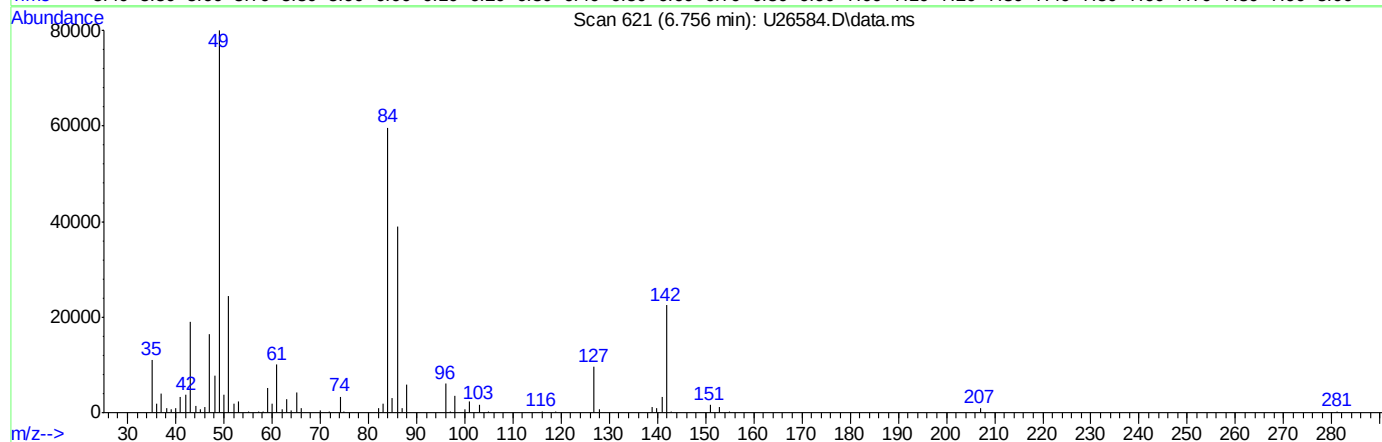
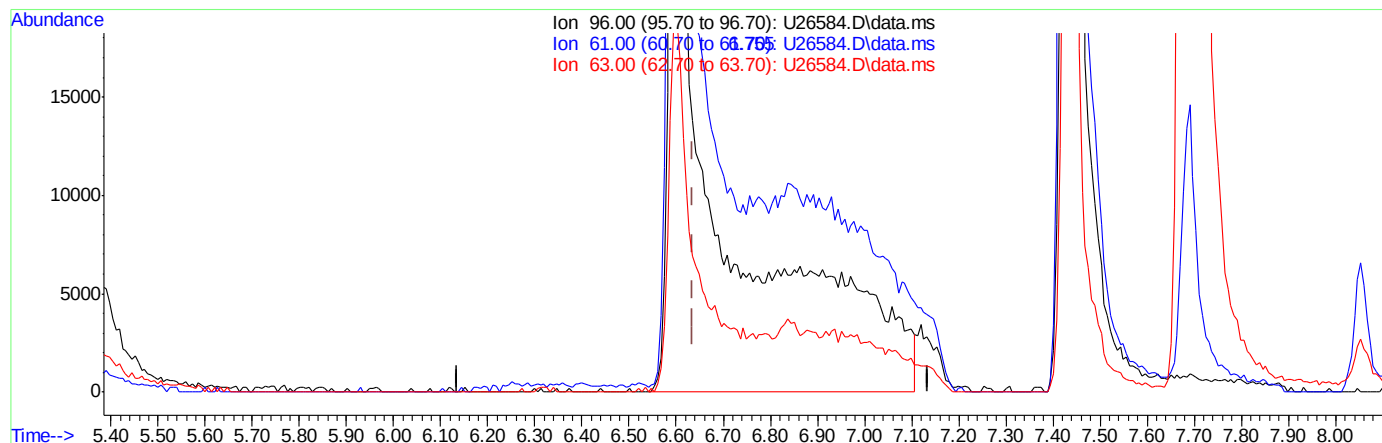
response 472748

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	68.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.755min (+0.120) 40.67ppb

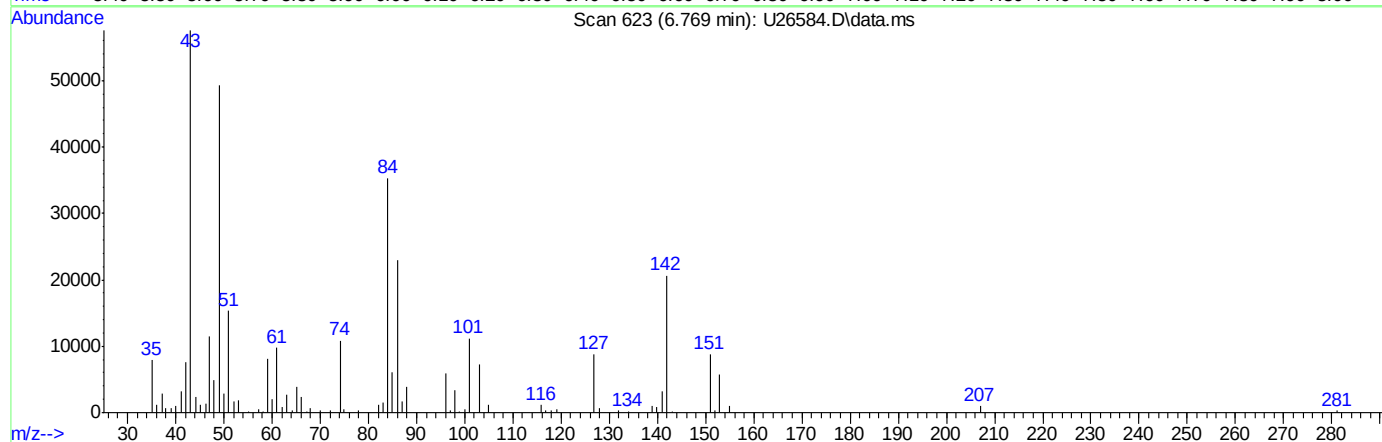
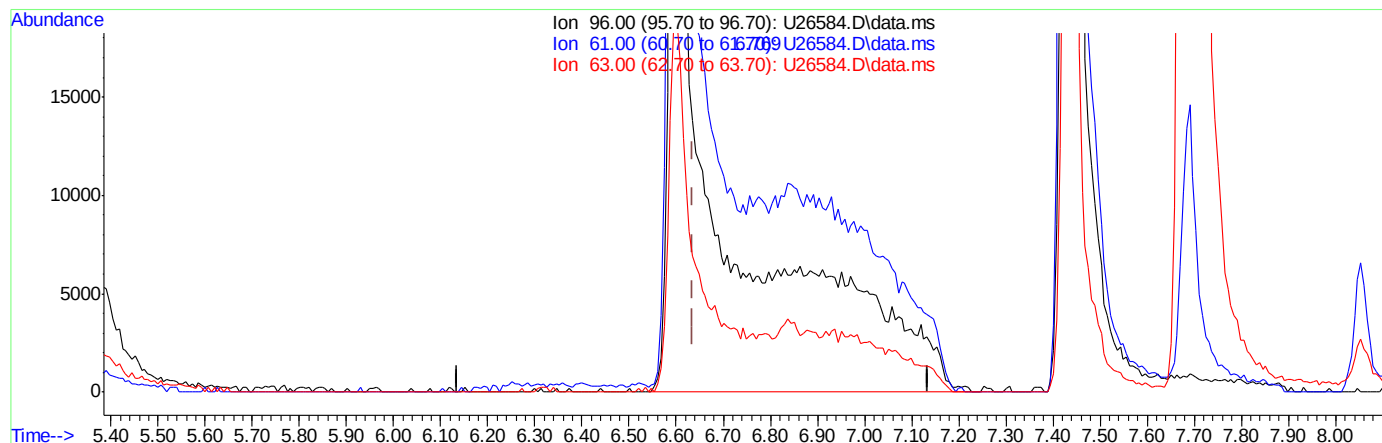
response 263271

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	160.51
63.00	57.60	46.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.769min (+0.134) 42.20ppb m

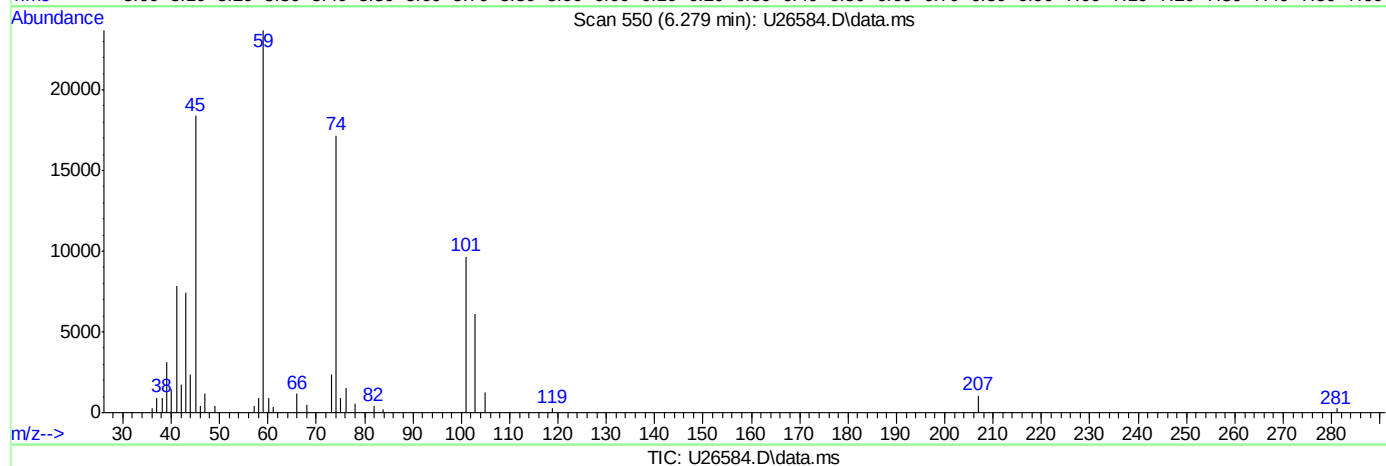
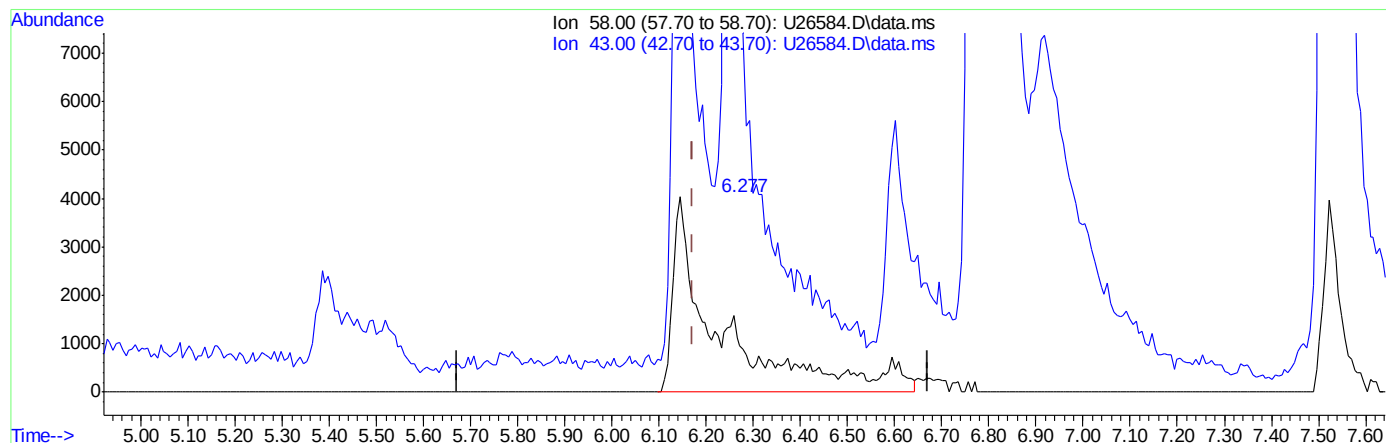
response 273184

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	165.85
63.00	57.60	45.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.277min (+0.106) 58.10ppb

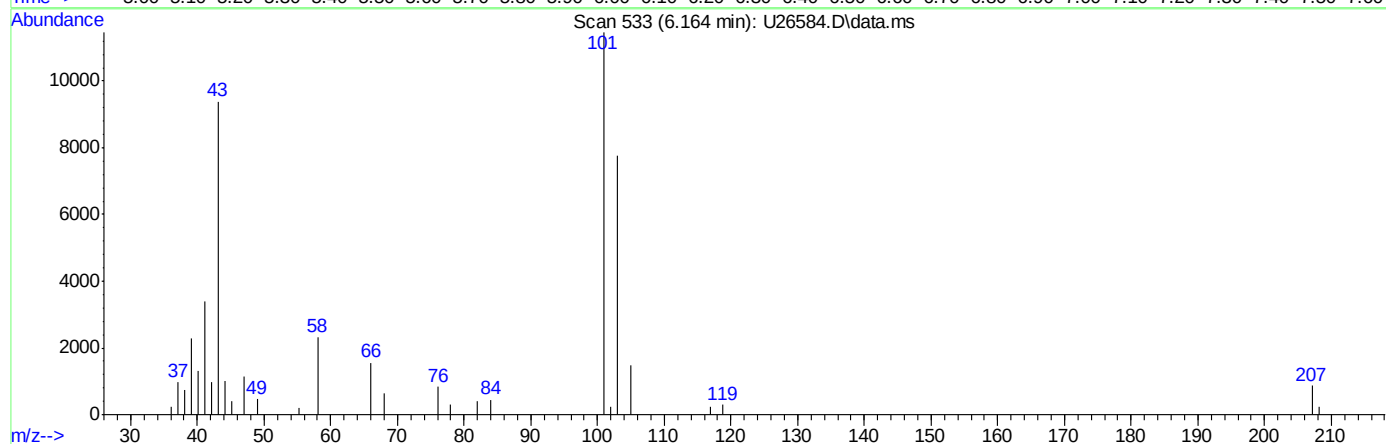
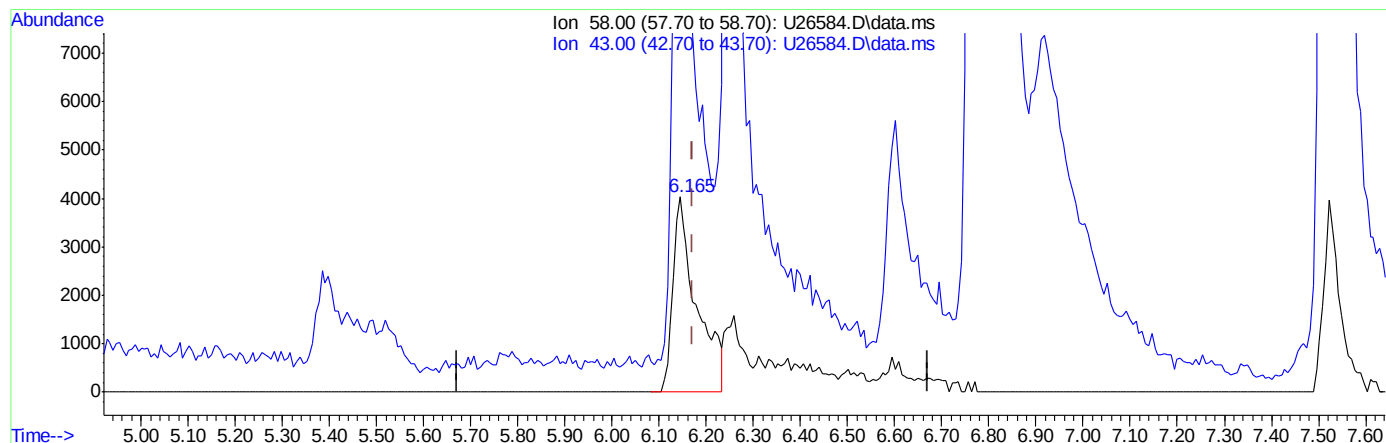
response 27360

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	759.55#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26584.D
Acq On : 9 Mar 2015 4:17 pm
Operator : GaryK
Sample : mc37093-6ms
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 10 09:14:26 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26584.D\data.ms

(16) acetone (P)

6.164min (-0.007) 29.77ppb m

response 14021

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	402.84#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26585.D
 Acq On : 9 Mar 2015 4:44 pm
 Operator : GaryK
 Sample : mc37093-6msd
 Misc : ms33945,msu1116,,,,,5,5
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 10 09:17:19 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.737	65	165982	500.00	ppb	0.00
4) pentafluorobenzene	8.960	168	466851	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.825	114	740573	50.00	ppb	0.00
66) chlorobenzene-d5	13.079	82	291307	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.643	152	346372	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.598	113	278623	52.16	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	104.32%		
60) toluene-d8 (s)	11.621	98	752447	50.45	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.90%		
82) bromofluorobenzene (s)	14.309	95	246675	50.68	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.36%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.810	59	237228m	480.57	ppb	
3) Ethanol	5.739	45	152857	5557.94	ppb	92
5) dichlorodifluoromethane	4.327	85	382085	63.78	ppb	97
6) chloromethane	4.544	50	428561	52.93	ppb	98
7) vinyl chloride	4.805	62	360013	53.12	ppb	97
8) bromomethane	5.281	96	258059	54.23	ppb	98
9) chloroethane	5.451	64	162298	56.86	ppb	78
10) ethyl ether	6.282	59	187431	49.96	ppb	89
11) acetonitrile	6.077	41	24357m	41.35	ppb	
12) trichlorofluoromethane	6.164	101	428402	49.56	ppb	94
13) freon-113	6.973	101	210088	31.06	ppb	90
15) 1,1-dichloroethene	6.734	96	253644	42.07	ppb	# 76
16) acetone	6.178	58	9943m	22.67	ppb	
17) Methyl Acetate	6.867	43	245353	36.88	ppb	# 32
18) methylene chloride	6.800	84	287313	47.46	ppb	# 78
19) methyl tert butyl ether	7.559	73	661342	48.72	ppb	95
20) acrylonitrile	6.759	53	99950	49.79	ppb	98
21) allyl chloride	6.870	41	321036	43.56	ppb	89
22) trans-1,2-dichloroethene	7.454	96	241576	44.09	ppb	# 73
23) iodomethane	6.732	142	553089	47.78	ppb	99
24) carbon disulfide	7.109	76	722841	37.68	ppb	96
25) propionitrile	8.063	54	18245	45.76	ppb	100
26) vinyl acetate	7.814	43	504428	95.66	ppb	97
27) chloroprene	8.068	53	304529	43.36	ppb	87
28) di-isopropyl ether	8.110	45	765882	49.85	ppb	93
29) methacrylonitrile	8.238	41	159800	51.69	ppb	83
30) 2-butanone	8.174	72	28950	44.90	ppb	# 1
31) Ethyl Acetate	8.110	43	625900	45.52	ug/L	# 50
32) Hexane	8.085	41	312668	44.04	ppb	# 69
33) 1,1-dichloroethane	7.704	63	387432	44.49	ppb	96
34) tert-butyl ethyl ether	8.507	59	750684	48.98	ppb	88
35) isobutyl alcohol	8.531	43	156120	282.89	ppb	# 1
36) 2,2-dichloropropane	8.571	77	228452	41.16	ppb	89
37) cis-1,2-dichloroethene	8.273	96	280121	46.26	ppb	# 81

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26585.D
 Acq On : 9 Mar 2015 4:44 pm
 Operator : GaryK
 Sample : mc37093-6msd
 Misc : ms33945,msu1116,,,,,5,5
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 10 09:17:19 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.442	128	158814	46.04	ppb	# 60
39) chloroform	8.477	83	434462	47.00	ppb	93
41) Tetrahydrofuran	8.855	42	78716	49.03	ppb	99
42) 1,1,1-trichloroethane	9.243	97	325087	40.20	ppb	98
44) Cyclohexane	9.548	56	294577	31.96	ppb	# 82
45) carbon tetrachloride	9.598	117	286518	38.20	ppb	95
46) 1,1-dichloropropene	9.400	75	263738	44.17	ppb	90
47) benzene	9.623	78	826169	46.16	ppb	98
48) 1,2-dichloroethane	9.137	62	344795	49.42	ppb	94
49) tert-amyl methyl ether	9.750	73	669958	50.62	ppb	95
50) heptane	10.098	43	247073	45.77	ppb	# 32
51) trichloroethene	10.243	95	261423	47.50	ppb	80
52) 1,2-dichloropropane	10.212	63	209844	47.43	ppb	97
53) dibromomethane	10.188	93	156016	46.94	ppb	91
54) bromodichloromethane	10.299	83	315040	46.92	ppb	94
55) Methylcyclohexane	10.769	83	331084	40.27	ppb	# 82
57) methyl methacrylate	10.411	69	108573	48.06	ppb	83
59) cis-1,3-dichloropropene	10.919	75	297818	46.91	ppb	87
61) 4-methyl-2-pentanone	11.030	43	225826	49.51	ppb	96
62) toluene	11.693	92	466138	46.04	ppb	96
63) trans-1,3-dichloropropene	11.341	75	224148	45.46	ppb	92
64) 1,1,2-trichloroethane	11.513	83	146518	48.42	ppb	95
65) ethyl methacrylate	11.726	69	205702	51.06	ppb	# 71
67) tetrachloroethene	12.436	166	208504	42.79	ppb	96
68) 1,3-dichloropropane	11.747	76	263310	50.31	ppb	92
69) dibromochloromethane	12.037	129	238169	43.82	ppb	97
70) 1,2-dibromoethane	12.290	107	195813	46.27	ppb	97
71) 2-hexanone	11.904	43	110253	37.57	ppb	99
72) chlorobenzene	13.116	112	525345	41.51	ppb	89
73) 1,1,1,2-tetrachloroethane	13.035	131	269350	48.35	ppb	96
74) ethylbenzene	13.291	91	857691	44.70	ppb	93
75) m,p-xylene	13.475	106	689263	88.94	ppb	89
76) o-xylene	13.888	106	385661	44.04	ppb	90
77) styrene	13.816	104	528077	43.22	ppb	95
78) bromoform	13.643	173	128174	38.16	ppb	98
79) trans-1,4-dichloro-2-b...	14.048	53	9955	8.79	ppb	# 1
81) isopropylbenzene	14.252	105	1025381	48.53	ppb	96
83) bromobenzene	14.540	156	254245	47.10	ppb	# 76
84) 1,1,2,2-tetrachloroethane	13.895	83	272709	54.51	ppb	99
85) 1,2,3-trichloropropane	14.044	75	198658	40.26	ppb	99
86) n-propylbenzene	14.697	91	1042038	46.89	ppb	93
87) 2-chlorotoluene	14.814	91	664339	47.00	ppb	88
88) 4-chlorotoluene	14.891	91	611805	46.26	ppb	88
89) 1,3,5-trimethylbenzene	14.974	105	991592	52.25	ppb	95
90) tert-butylbenzene	15.278	91	535785	50.79	ppb	84
91) 1,2,4-trimethylbenzene	15.382	105	981885	49.52	ppb	97
92) sec-butylbenzene	15.502	105	1238806	49.21	ppb	96
93) 1,3-dichlorobenzene	15.604	146	508159	45.35	ppb	98
94) p-isopropyltoluene	15.675	119	1139291	50.93	ppb	94
95) 1,4-dichlorobenzene	15.672	146	528332	45.33	ppb	100

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26585.D
Acq On : 9 Mar 2015 4:44 pm
Operator : GaryK
Sample : mc37093-6msd
Misc : ms33945,msu1116,,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 10 09:17:19 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

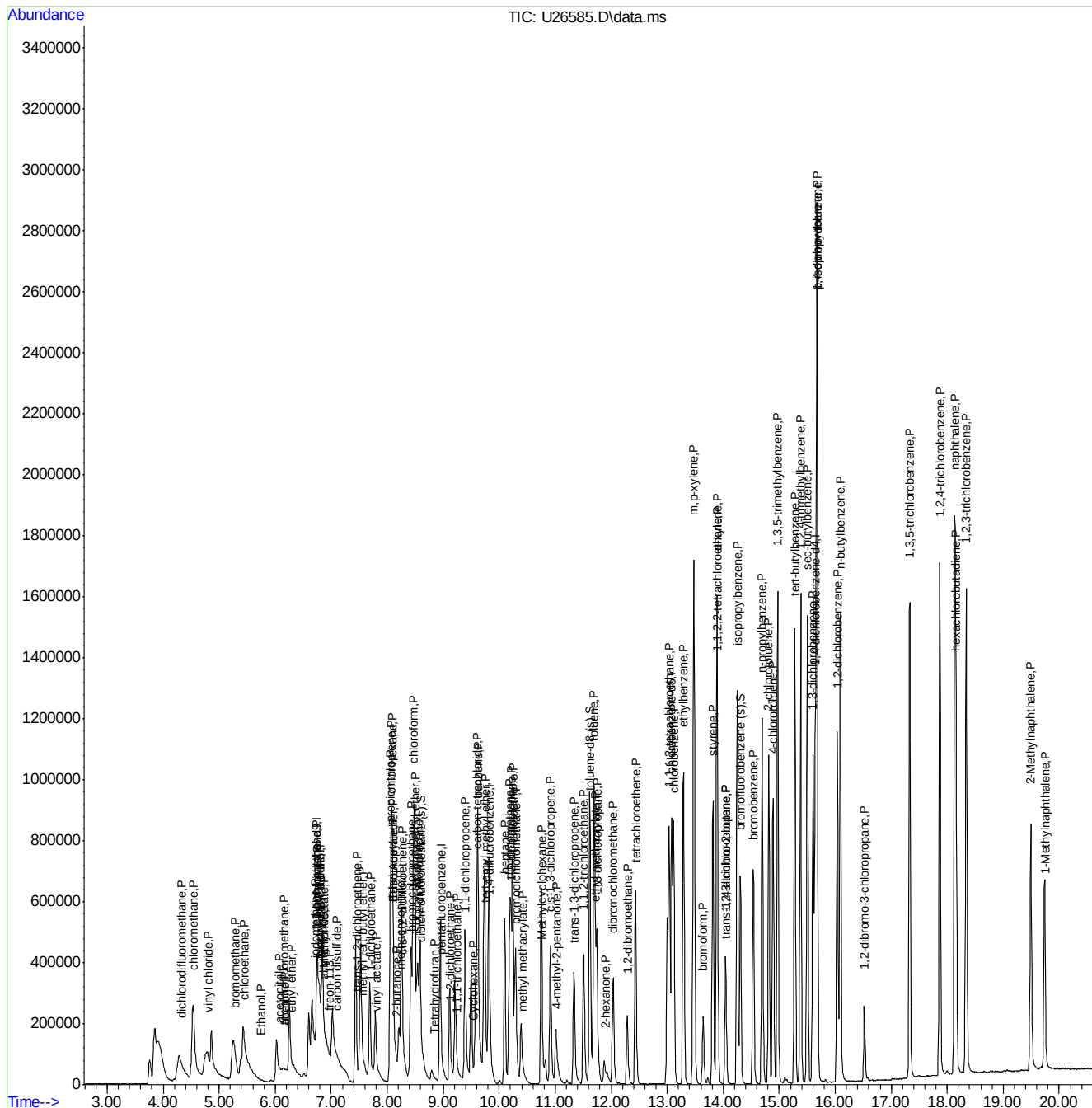
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2-dichlorobenzene	16.040	146	584311	45.77	ppb	97
97) n-butylbenzene	16.095	91	986449	51.22	ppb	91
98) 1,2-dibromo-3-chloropr...	16.523	75	65771	48.17	ppb #	73
99) 1,3,5-trichlorobenzene	17.332	180	556938	49.41	ug/L	96
100) 1,2,4-trichlorobenzene	17.870	180	607385	48.26	ppb	94
101) hexachlorobutadiene	18.158	225	222394	57.49	ppb	92
102) naphthalene	18.135	128	1570149	51.19	ppb	100
103) 2-Methylnaphthalene	19.498	142	523674	28.67	ug/L	97
104) 1-Methylnaphthalene	19.744	142	417845	29.90	ug/L	96
105) 1,2,3-trichlorobenzene	18.342	180	599447	53.80	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26585.D
Acq On : 9 Mar 2015 4:44 pm
Operator : GaryK
Sample : mc37093-6msd
Misc : ms33945,msu1116,,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

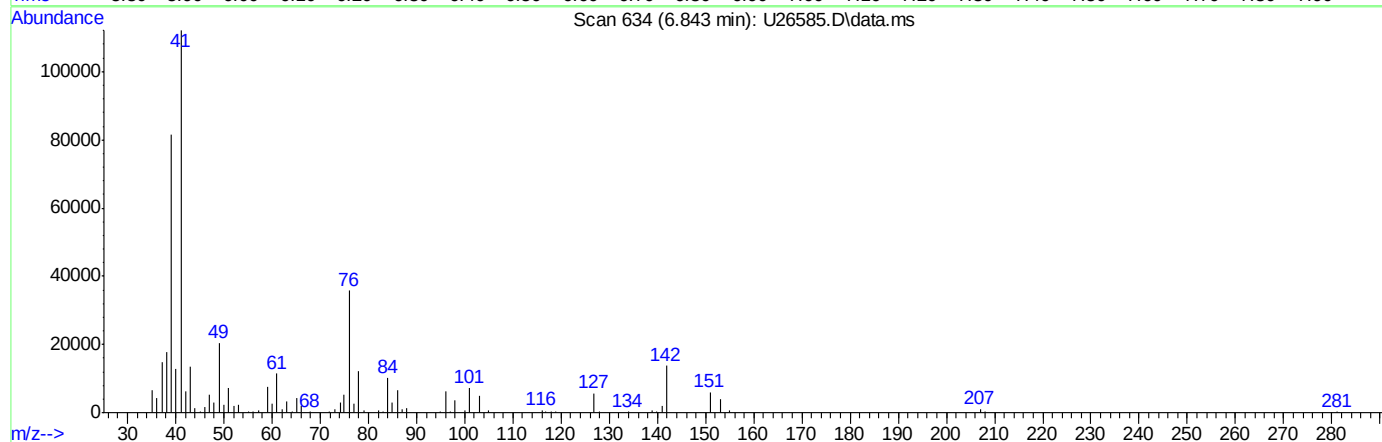
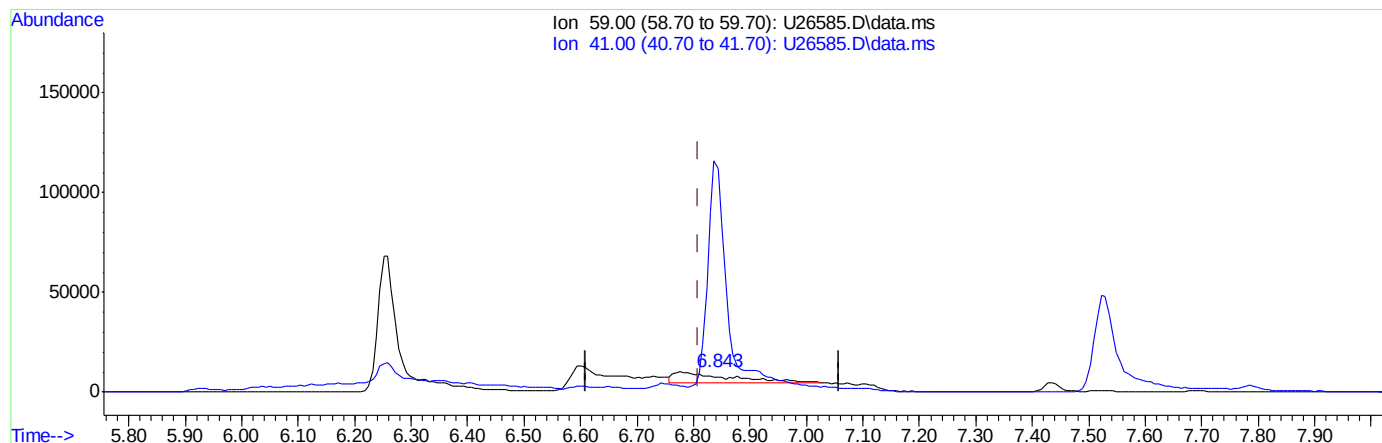
Quant Time: Mar 10 09:17:19 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26585.D
Acq On : 9 Mar 2015 4:44 pm
Operator : GaryK
Sample : mc37093-6msd
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 10 09:16:17 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26585.D\data.ms

(2) tertiary butyl alcohol (P)

6.843min (+0.033) 75.83ppb

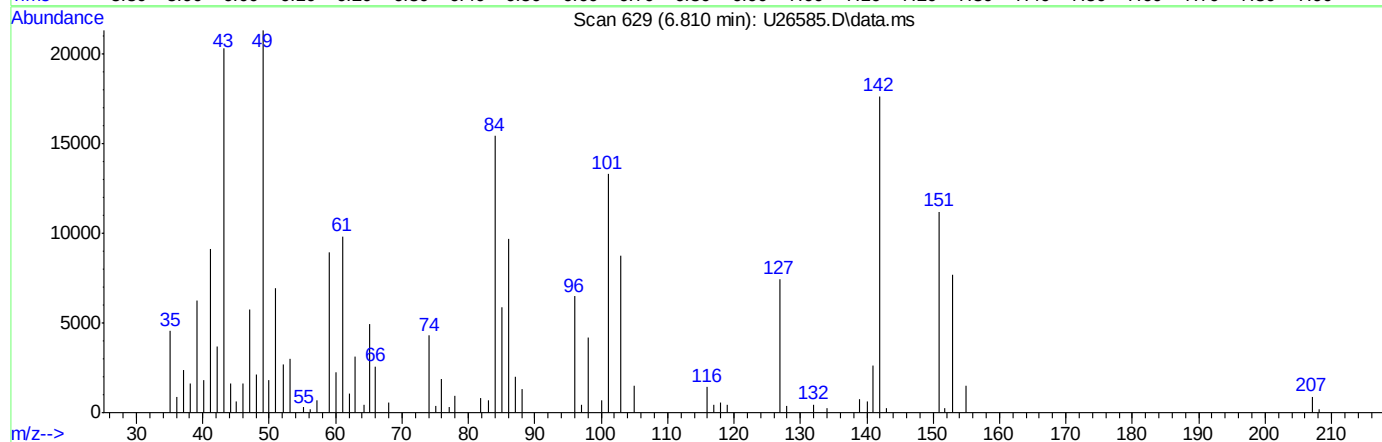
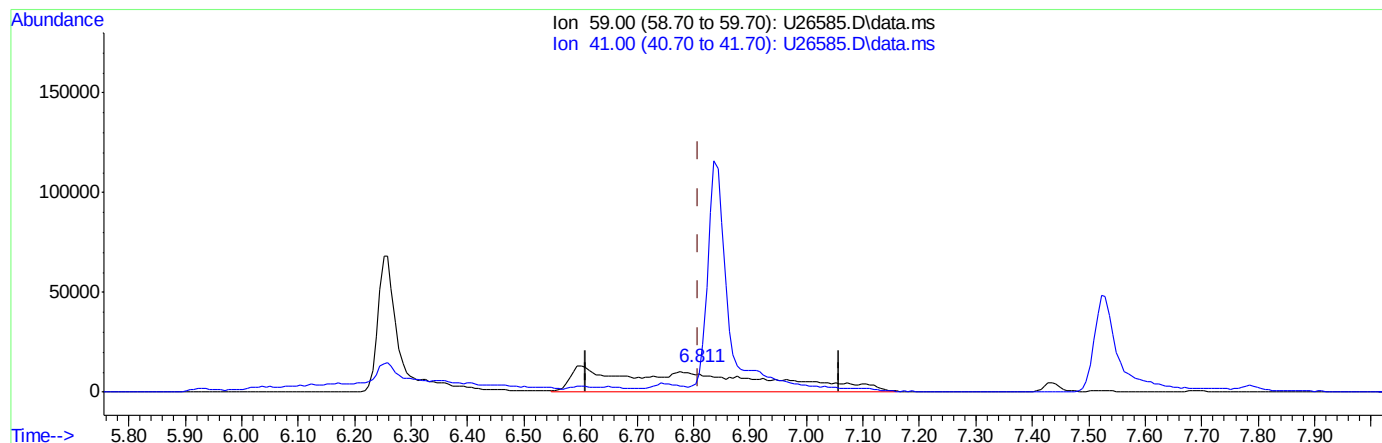
response 37434

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	3952.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26585.D
Acq On : 9 Mar 2015 4:44 pm
Operator : GaryK
Sample : mc37093-6msd
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 10 09:16:17 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26585.D\data.ms

(2) tertiary butyl alcohol (P)

6.810min (-0.000) 480.57ppb m

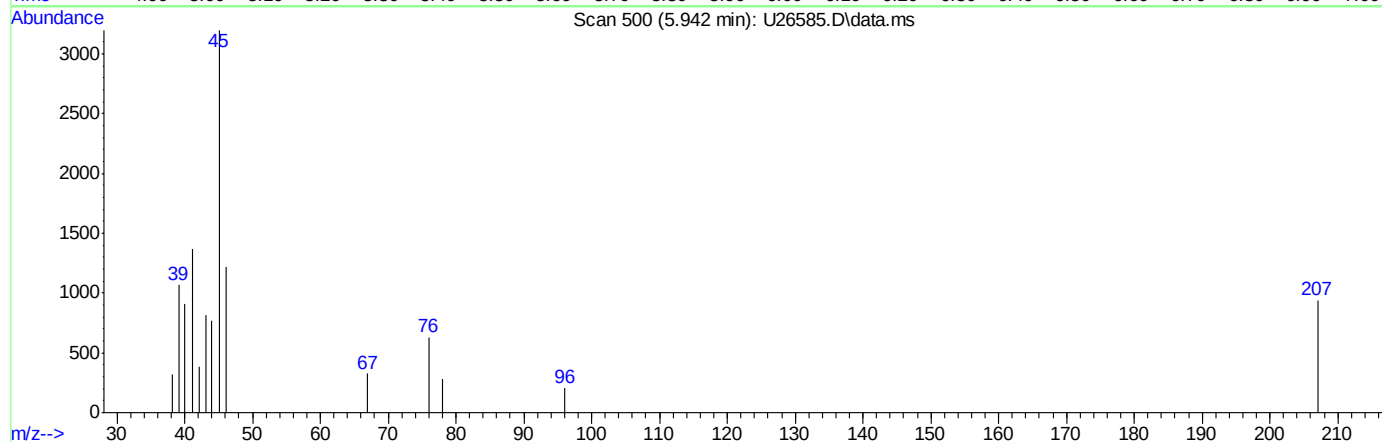
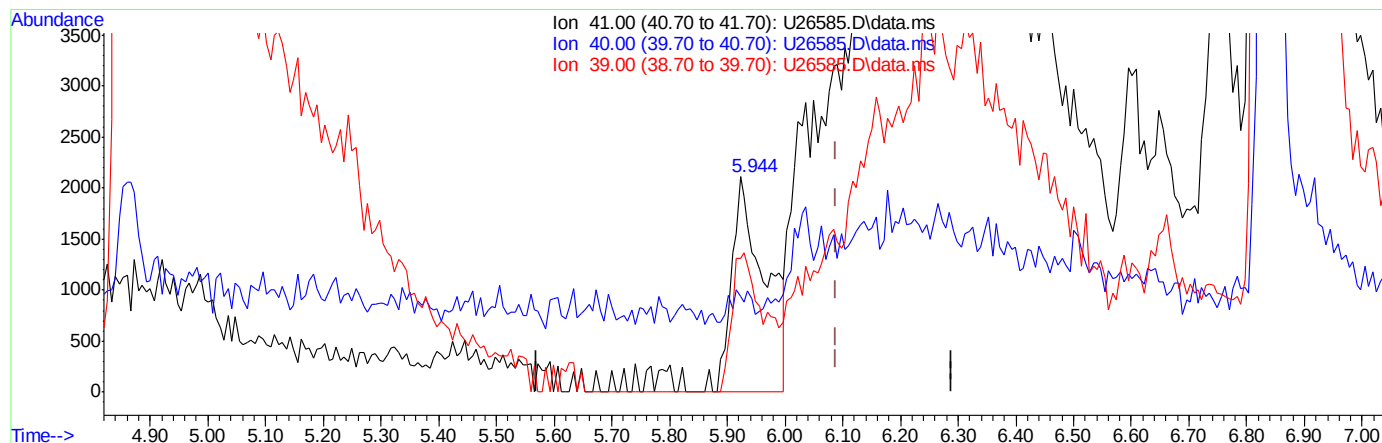
response 237228

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	101.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26585.D
Acq On : 9 Mar 2015 4:44 pm
Operator : GaryK
Sample : mc37093-6msd
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 10 09:16:17 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26585.D\data.ms

(11) acetonitrile (P)

5.944min (-0.146) 13.45ppb

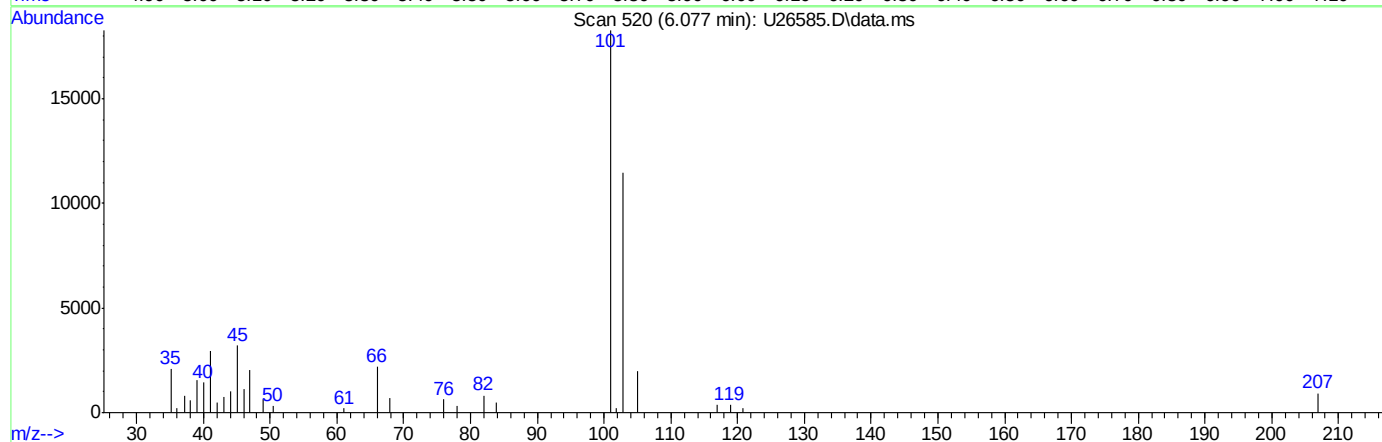
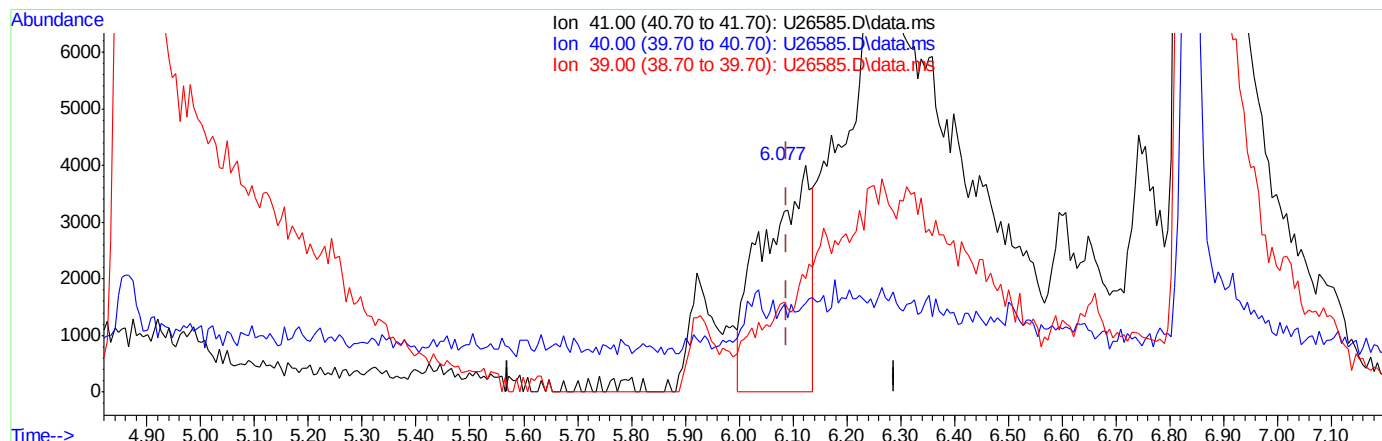
response 8337

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	16.42#
39.00	24.50	78.23#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26585.D
Acq On : 9 Mar 2015 4:44 pm
Operator : GaryK
Sample : mc37093-6msd
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 10 09:16:17 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26585.D\data.ms

(11) acetonitrile (P)

6.077min (-0.013) 41.35ppb m

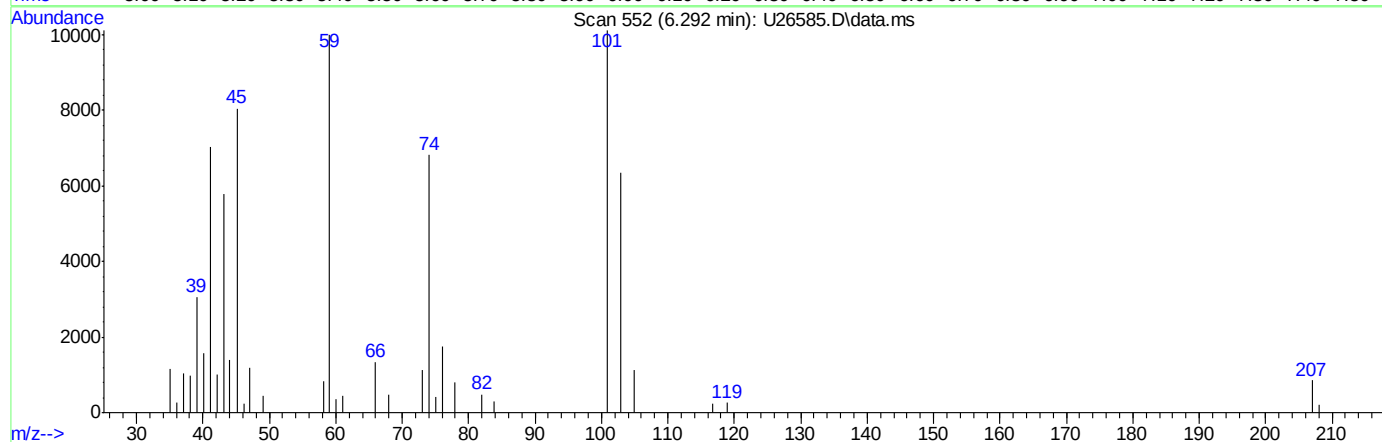
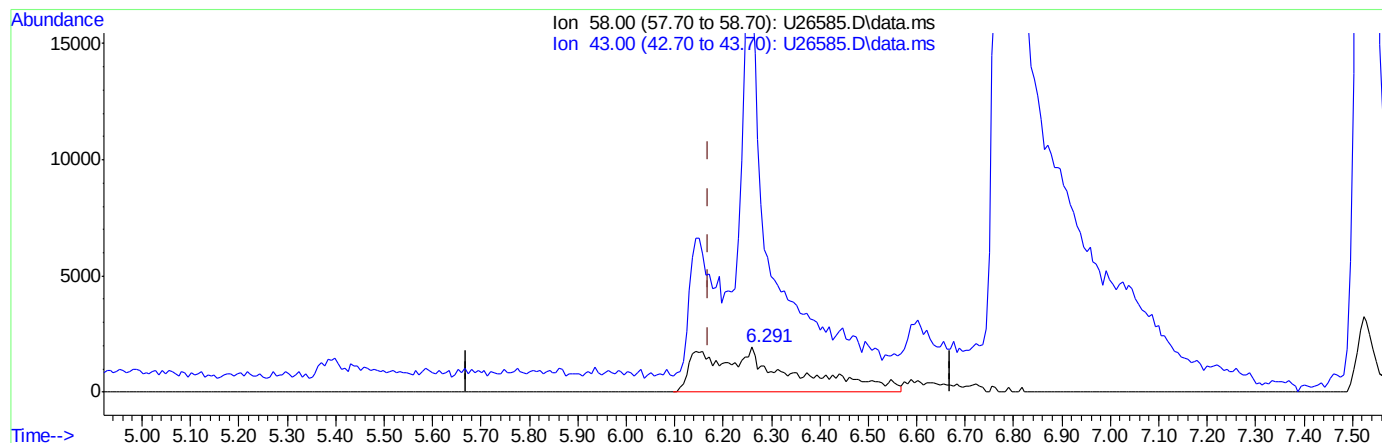
response 24357

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	48.39#
39.00	24.50	52.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26585.D
Acq On : 9 Mar 2015 4:44 pm
Operator : GaryK
Sample : mc37093-6msd
Misc : ms33945,msu1116,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 10 09:16:17 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.291min (+0.120) 55.52ppb

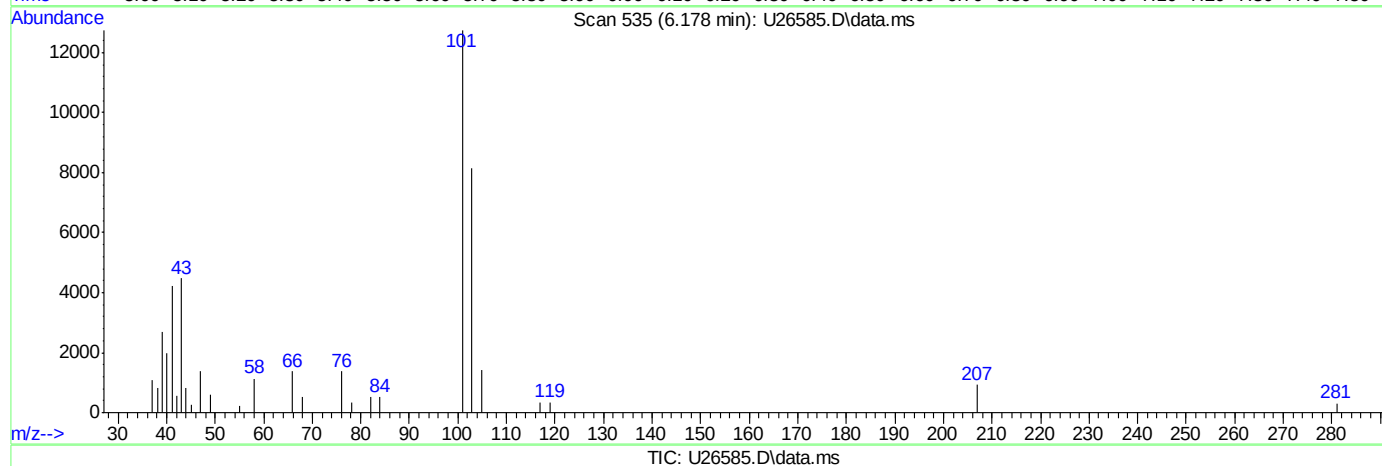
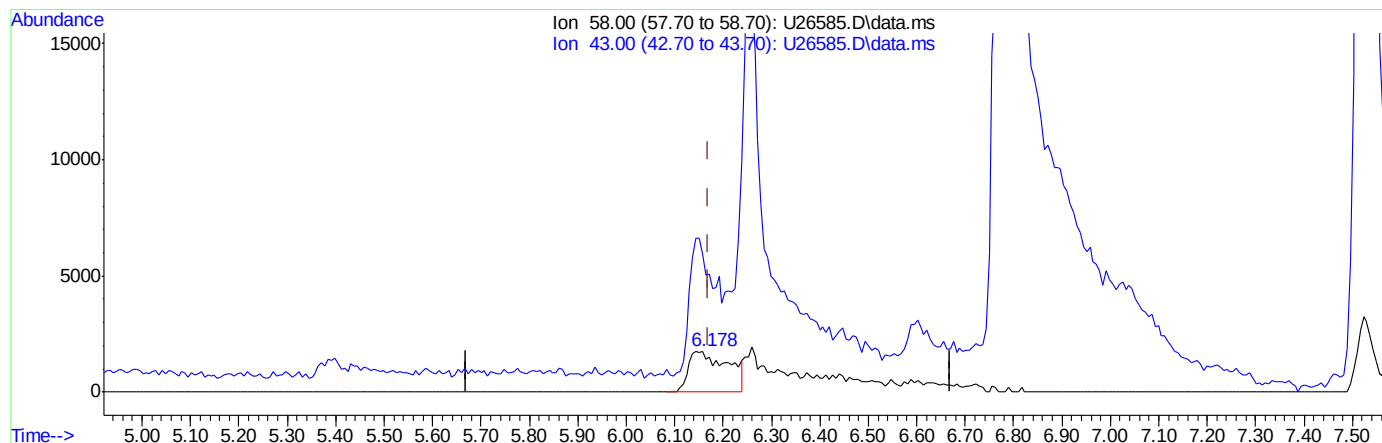
response 24350

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	615.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26585.D
Acq On : 9 Mar 2015 4:44 pm
Operator : GaryK
Sample : mc37093-6msd
Misc : ms33945,msu1116,,,,,5,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 10 09:16:17 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.178min (+0.007) 22.67ppb m

response 9943

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	395.23#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26607.D
 Acq On : 10 Mar 2015 12:39 pm
 Operator : GaryK
 Sample : d68173-1ms
 Misc : ms33938,msu1117,,,,5,5
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:28:03 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.712	65	107334	500.00	ppb	-0.03
4) pentafluorobenzene	8.954	168	409149	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.823	114	654307	50.00	ppb	0.00
66) chlorobenzene-d5	13.077	82	265310	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.642	152	297331	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.594	113	227998	48.71	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	97.42%		
60) toluene-d8 (s)	11.619	98	684861	51.97	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	103.94%		
82) bromofluorobenzene (s)	14.307	95	220065	52.67	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	105.34%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.776	59	142972m	447.89	ppb	
3) Ethanol	5.712	45	77127	4336.69	ppb	91
5) dichlorodifluoromethane	4.333	85	391814	74.62	ppb	96
6) chloromethane	4.558	50	454360	64.03	ppb	98
7) vinyl chloride	4.818	62	374881	63.11	ppb	97
8) bromomethane	5.293	96	263067	63.08	ppb	96
9) chloroethane	5.455	64	153184	61.24	ppb	78
10) ethyl ether	6.280	59	156572	47.62	ppb	86
12) trichlorofluoromethane	6.191	101	426332m	56.28	ppb	
13) freon-113	6.971	101	187416m	31.61	ppb	
15) 1,1-dichloroethene	6.756	96	235856m	44.63	ppb	
16) acetone	6.178	58	6407m	16.67	ppb	
17) Methyl Acetate	6.850	43	182322	31.27	ppb	# 73
18) methylene chloride	6.812	84	265649	50.07	ppb	83
19) methyl tert butyl ether	7.554	73	543774	45.70	ppb	96
20) acrylonitrile	6.723	53	65624	37.30	ppb	90
21) allyl chloride	6.875	41	314382	48.67	ppb	90
22) trans-1,2-dichloroethene	7.455	96	221174	46.06	ppb	# 75
23) iodomethane	6.745	142	504122	49.69	ppb	98
24) carbon disulfide	7.123	76	680198	40.46	ppb	92
25) propionitrile	8.059	54	15535	44.46	ppb	100
26) vinyl acetate	7.812	43	415623	89.94	ppb	98
27) chloroprene	8.062	53	281658	45.75	ppb	89
28) di-isopropyl ether	8.104	45	689603	51.22	ppb	97
29) methacrylonitrile	8.235	41	116848	43.12	ppb	96
30) 2-butanone	8.158	72	21936	38.82	ppb	# 1
31) Ethyl Acetate	8.101	43	579884	48.13	ug/L	# 50
32) Hexane	8.085	41	323816	52.05	ppb	# 74
33) 1,1-dichloroethane	7.701	63	350384	45.91	ppb	96
34) tert-butyl ethyl ether	8.503	59	647354	48.19	ppb	90
35) isobutyl alcohol	8.519	43	126198	259.25	ppb	# 72
36) 2,2-dichloropropane	8.571	77	209978	43.17	ppb	89
37) cis-1,2-dichloroethene	8.270	96	254438	47.94	ppb	# 79
38) bromochloromethane	8.437	128	136019	44.99	ppb	# 57

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26607.D
 Acq On : 10 Mar 2015 12:39 pm
 Operator : GaryK
 Sample : d68173-1ms
 Misc : ms33938,msu1117,,,,,5,5
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:28:03 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) chloroform	8.473	83	390722	48.22	ppb	100
41) Tetrahydrofuran	8.844	42	57656	40.97	ppb	100
42) 1,1,1-trichloroethane	9.242	97	293535	41.41	ppb	98
44) Cyclohexane	9.541	56	264237	32.45	ppb #	77
45) carbon tetrachloride	9.599	117	271846	41.02	ppb	97
46) 1,1-dichloropropene	9.395	75	242688	46.00	ppb	90
47) benzene	9.620	78	753880	47.68	ppb	98
48) 1,2-dichloroethane	9.134	62	295065	47.87	ppb	94
49) tert-amyl methyl ether	9.747	73	561930	48.05	ppb	97
50) heptane	10.101	43	279889	58.69	ppb #	35
51) trichloroethene	10.241	95	246271	50.65	ppb	82
52) 1,2-dichloropropane	10.209	63	191789	49.07	ppb	97
53) dibromomethane	10.186	93	136814	46.59	ppb	93
54) bromodichloromethane	10.297	83	282321	47.59	ppb	96
55) Methylcyclohexane	10.764	83	293633	40.42	ppb #	84
56) 2-chloroethyl vinyl ether	10.686	63	2843	4.12	ppb	90
57) methyl methacrylate	10.408	69	93753	46.97	ppb	83
59) cis-1,3-dichloropropene	10.918	75	285368	50.88	ppb	88
61) 4-methyl-2-pentanone	11.029	43	178646	44.33	ppb	98
62) toluene	11.691	92	445086	49.75	ppb	97
63) trans-1,3-dichloropropene	11.339	75	220065	50.52	ppb	94
64) 1,1,2-trichloroethane	11.511	83	131941	49.35	ppb	97
65) ethyl methacrylate	11.723	69	181302	50.94	ppb #	67
67) tetrachloroethene	12.434	166	200647	45.21	ppb	93
68) 1,3-dichloropropane	11.746	76	242845	50.95	ppb	96
69) dibromochloromethane	12.035	129	222353	44.92	ppb	96
70) 1,2-dibromoethane	12.288	107	172036	44.63	ppb	95
71) 2-hexanone	11.912	43	98878	37.00	ppb	94
72) chlorobenzene	13.114	112	498503	43.25	ppb	87
73) 1,1,1,2-tetrachloroethane	13.033	131	242081	47.71	ppb	95
74) ethylbenzene	13.290	91	832277	47.63	ppb	94
75) m,p-xylene	13.474	106	666029	94.36	ppb	89
76) o-xylene	13.886	106	358646	44.96	ppb	92
77) styrene	13.814	104	500609	44.98	ppb	92
78) bromoform	13.642	173	121793	39.82	ppb	98
79) trans-1,4-dichloro-2-b...	14.044	53	28754	27.89	ppb #	1
81) isopropylbenzene	14.250	105	970600	53.51	ppb	96
83) bromobenzene	14.538	156	230434	49.73	ppb #	80
84) 1,1,2,2-tetrachloroethane	13.893	83	213419	49.70	ppb	99
85) 1,2,3-trichloropropane	14.043	75	191014	45.10	ppb	98
86) n-propylbenzene	14.695	91	1009744	52.93	ppb	92
87) 2-chlorotoluene	14.813	91	621729	51.24	ppb	87
88) 4-chlorotoluene	14.890	91	572693	50.45	ppb	88
89) 1,3,5-trimethylbenzene	14.973	105	922916	56.65	ppb	94
90) tert-butylbenzene	15.278	91	485770	53.65	ppb	87
91) 1,2,4-trimethylbenzene	15.381	105	914673	53.74	ppb	97
92) sec-butylbenzene	15.501	105	1193670	55.23	ppb	95
93) 1,3-dichlorobenzene	15.603	146	457525	47.57	ppb	99
94) p-isopropyltoluene	15.674	119	1092571	56.90	ppb	96
95) 1,4-dichlorobenzene	15.671	146	468538	46.83	ppb	100

7.4.3

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:28:03 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

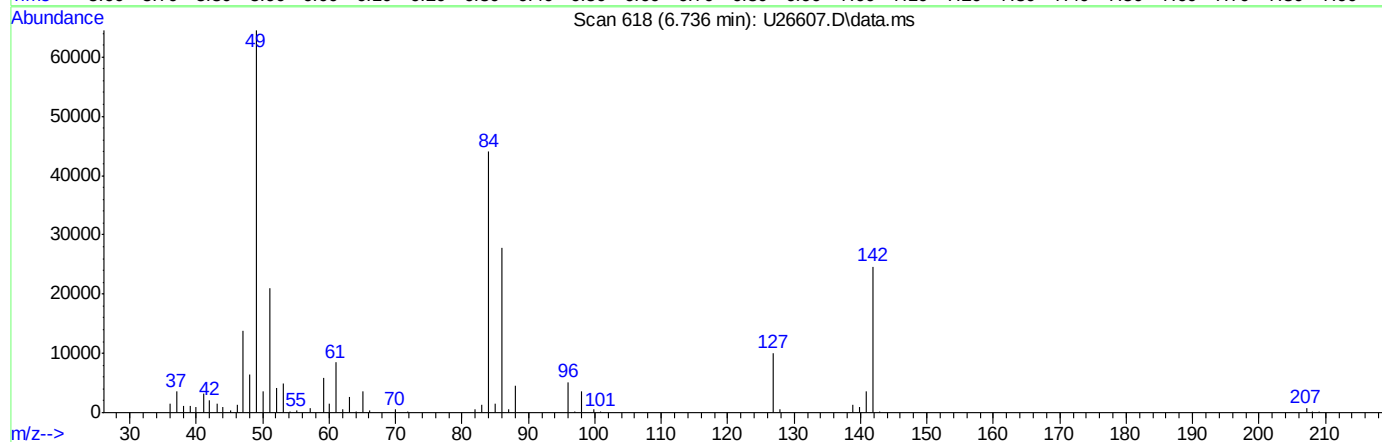
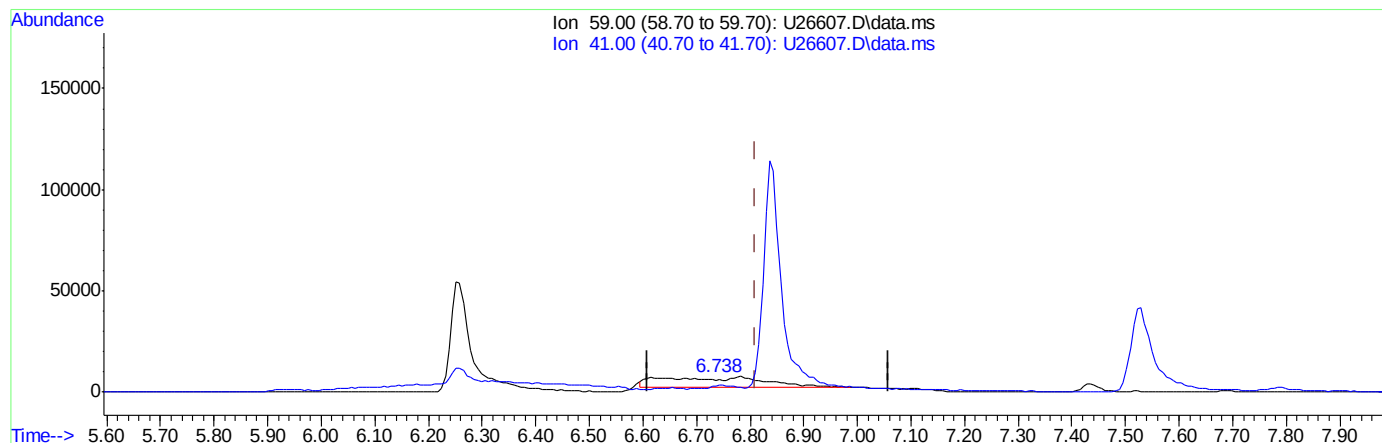
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2-dichlorobenzene	16.039	146	512063	46.73	ppb	96
97) n-butylbenzene	16.093	91	948573	57.38	ppb	91
98) 1,2-dibromo-3-chloropr...	16.522	75	48449	41.34	ppb	83
99) 1,3,5-trichlorobenzene	17.331	180	490133	50.66	ug/L	96
100) 1,2,4-trichlorobenzene	17.869	180	503630	46.62	ppb	95
101) hexachlorobutadiene	18.157	225	192196	57.88	ppb	90
102) naphthalene	18.134	128	1168702	44.39	ppb	100
103) 2-Methylnaphthalene	19.498	142	360913	23.02	ug/L	97
104) 1-Methylnaphthalene	19.744	142	275961	23.00	ug/L	97
105) 1,2,3-trichlorobenzene	18.340	180	496364	51.89	ppb	94

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

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.738min (-0.072) 228.96ppb

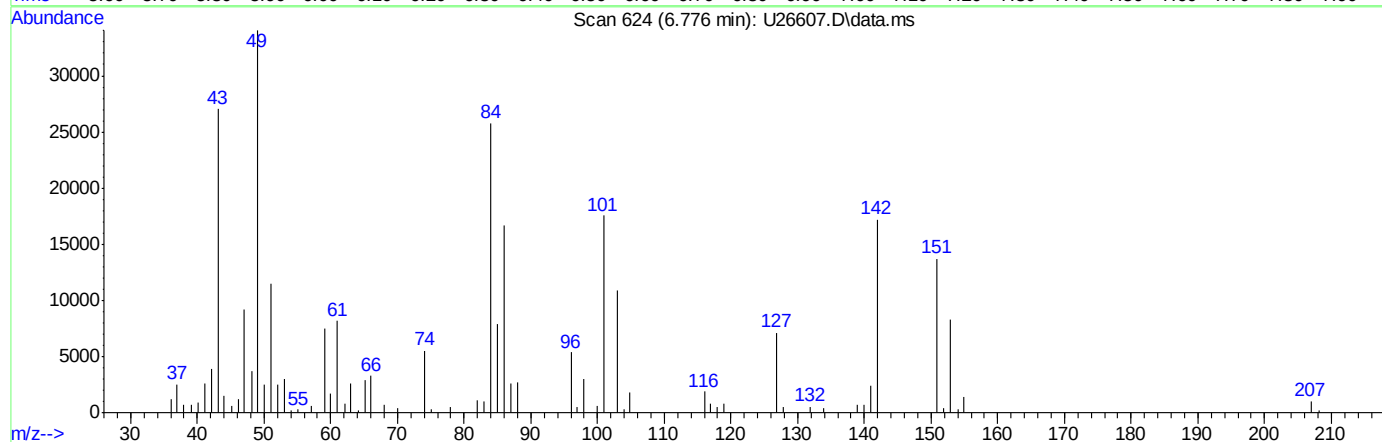
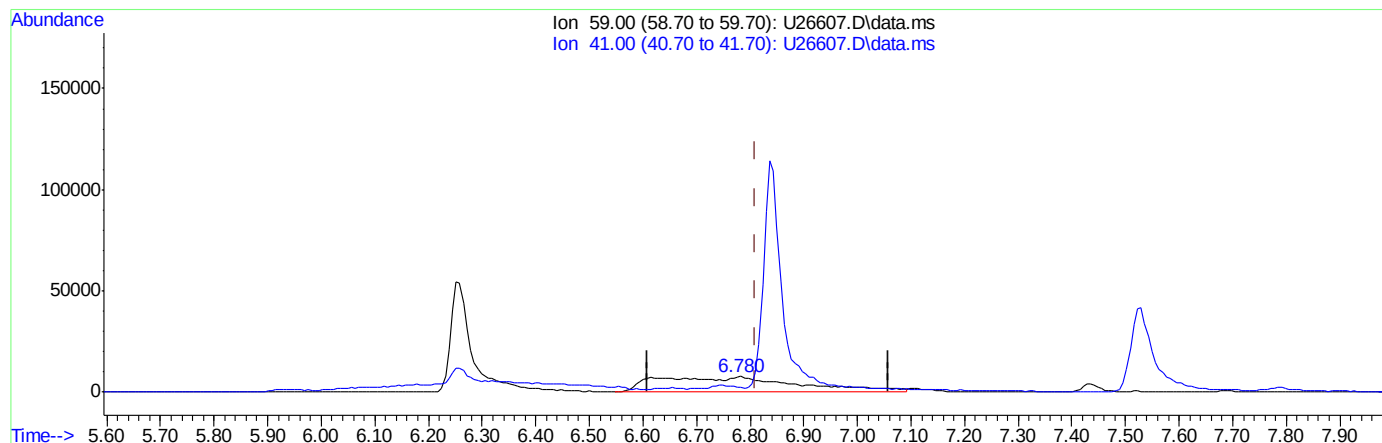
response 73088

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	52.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26607.D\data.ms

(2) tertiary butyl alcohol (P)

6.776min (-0.034) 447.89ppb m

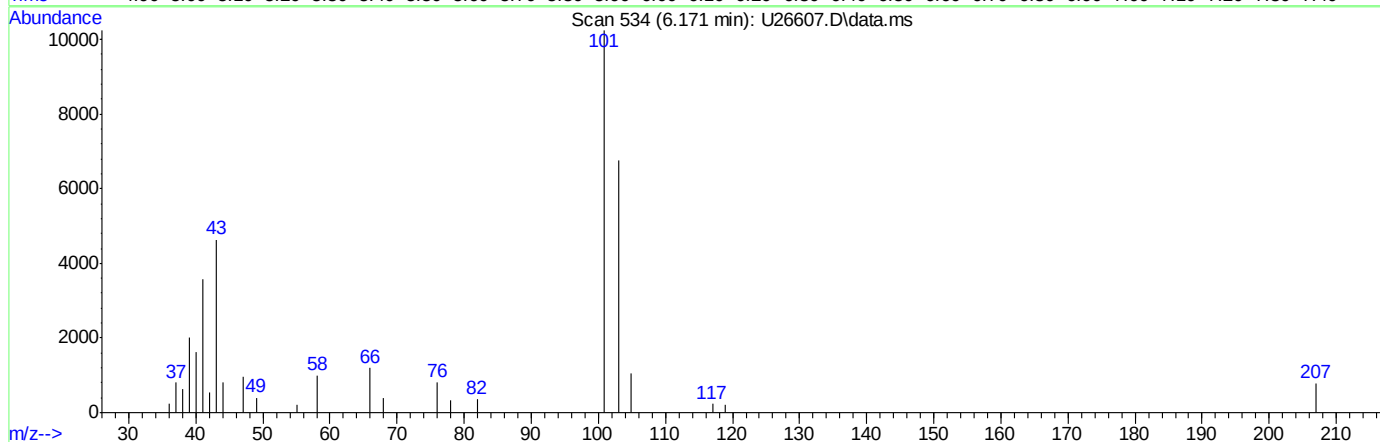
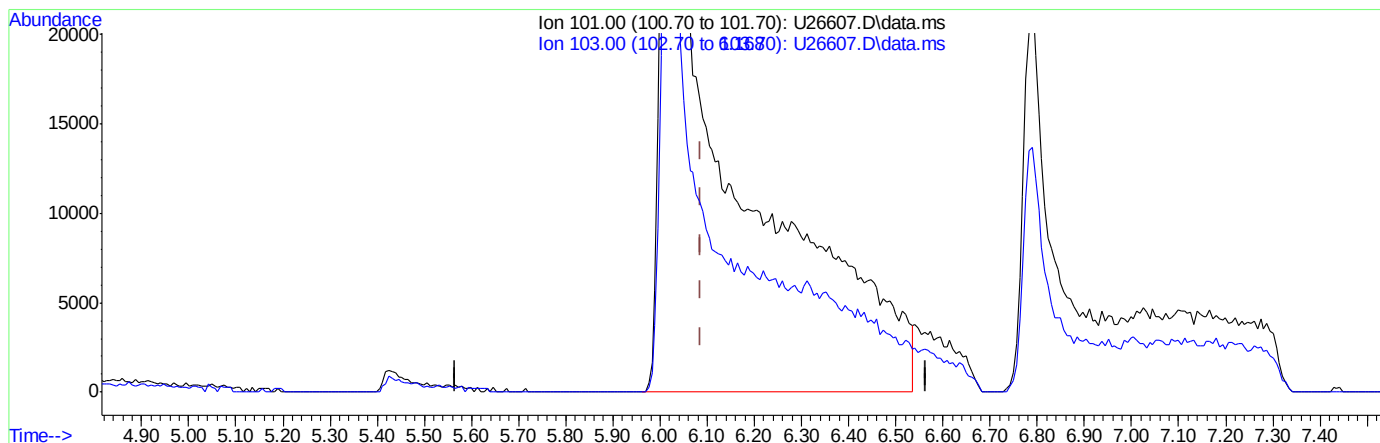
response 142972

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	33.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26607.D\data.ms

(12) trichlorofluoromethane (P)

6.168min (+0.082) 53.50ppb

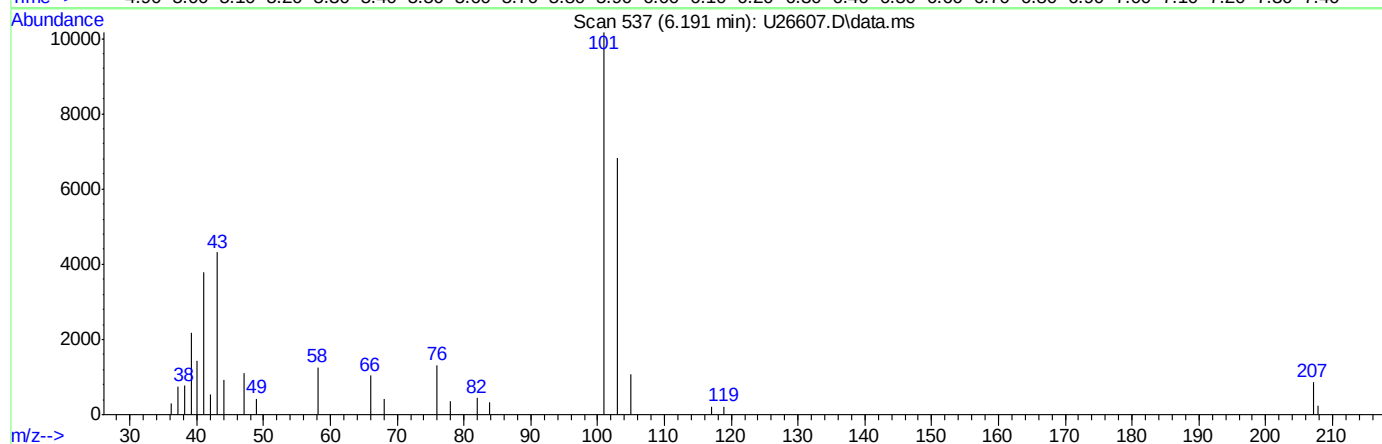
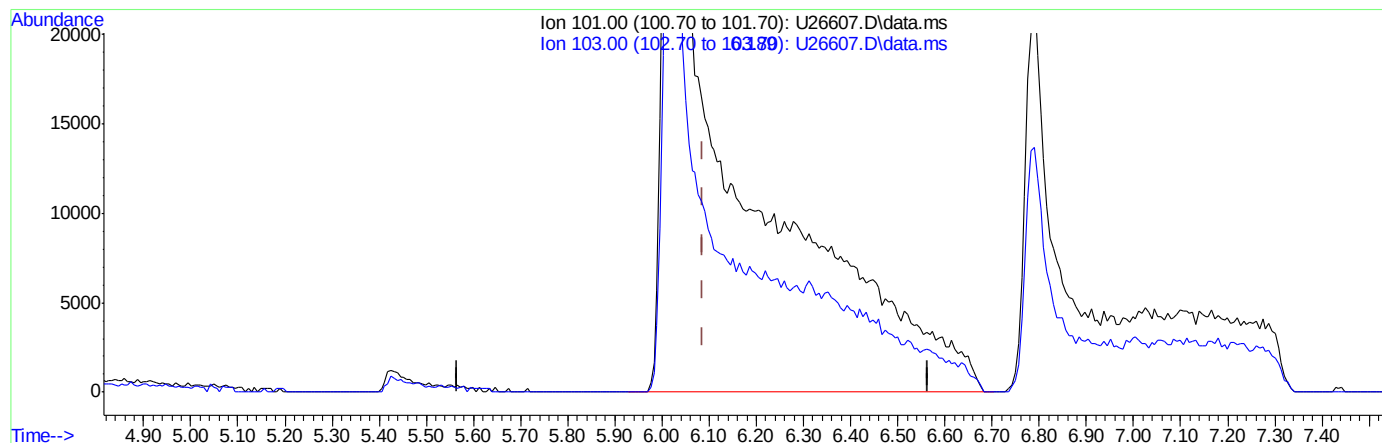
response 405230

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	65.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26607.D\data.ms

(12) trichlorofluoromethane (P)

6.191min (+0.105) 56.28ppb m

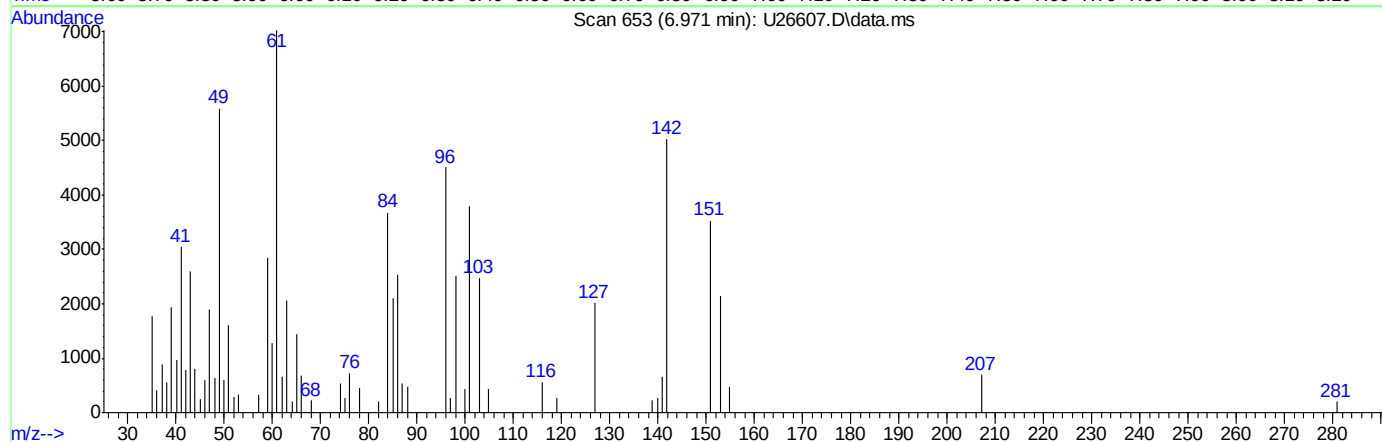
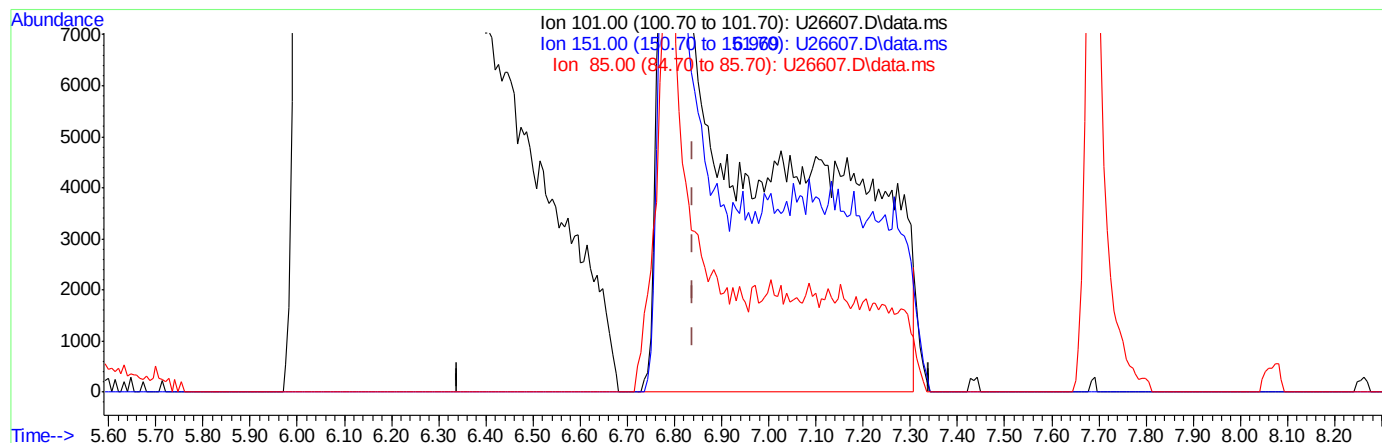
response 426332

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	67.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.969min (+0.129) 31.39ppb

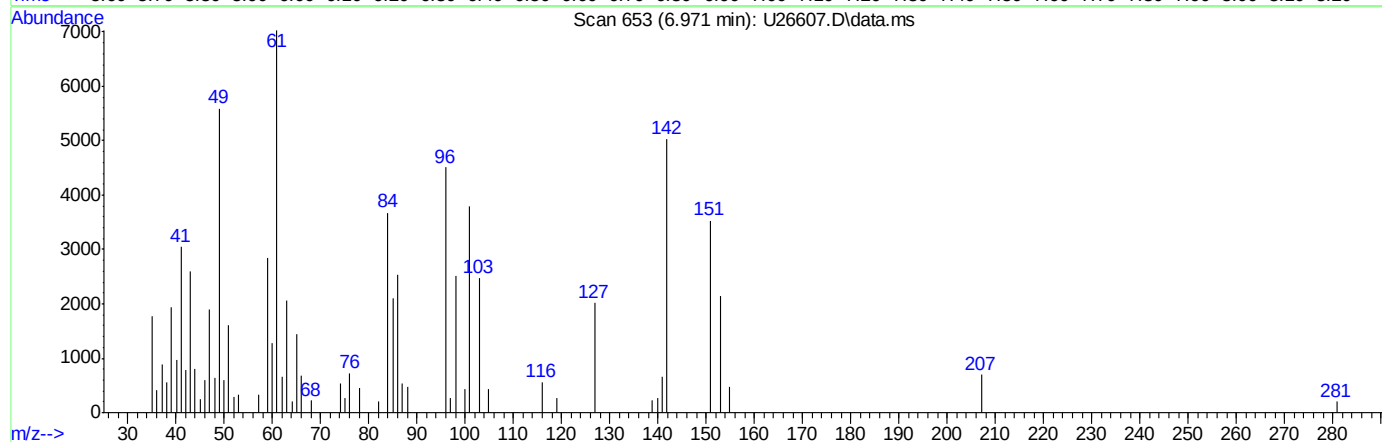
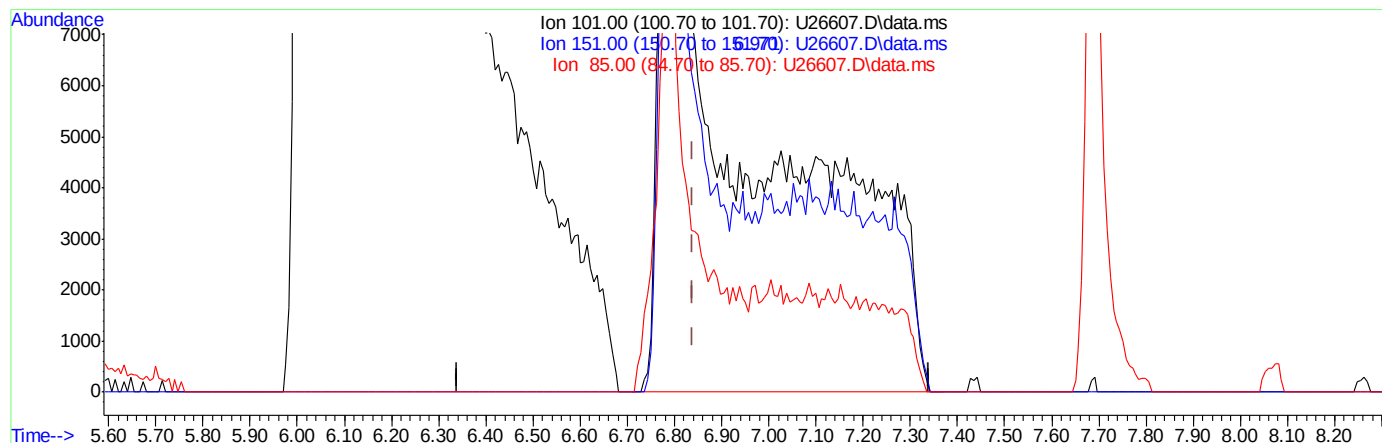
response 186083

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	93.07
85.00	45.00	41.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.971min (+0.131) 31.61ppb m

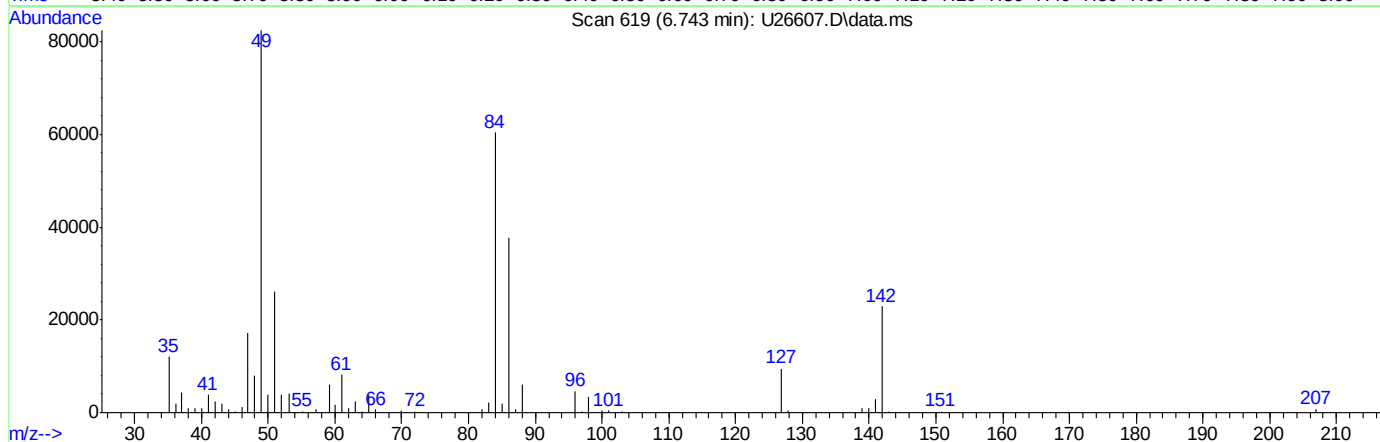
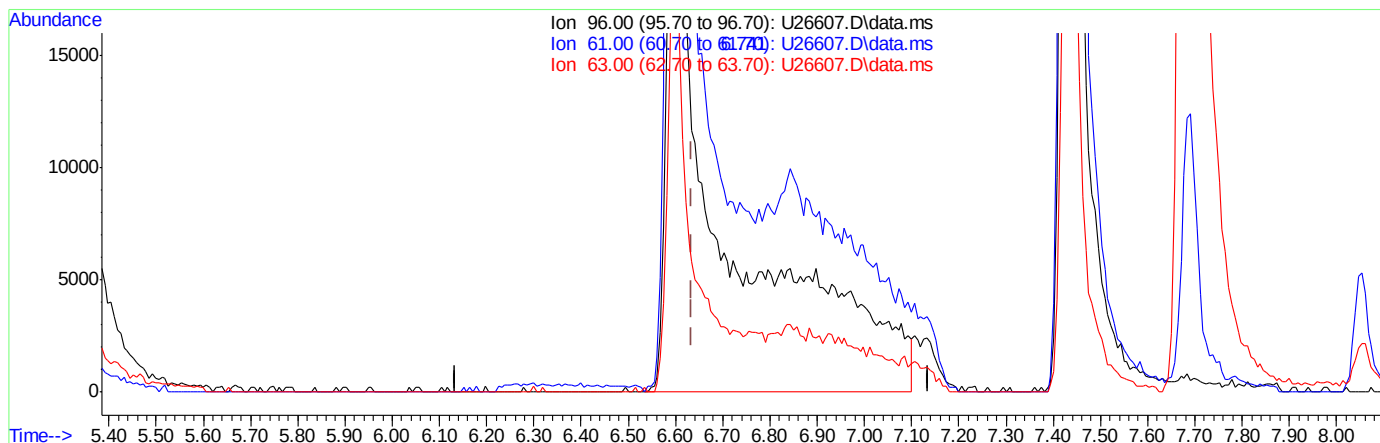
response 187416

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	93.07
85.00	45.00	55.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26607.D\data.ms

(15) 1,1-dichloroethene (P)

6.741min (+0.106) 43.03ppb

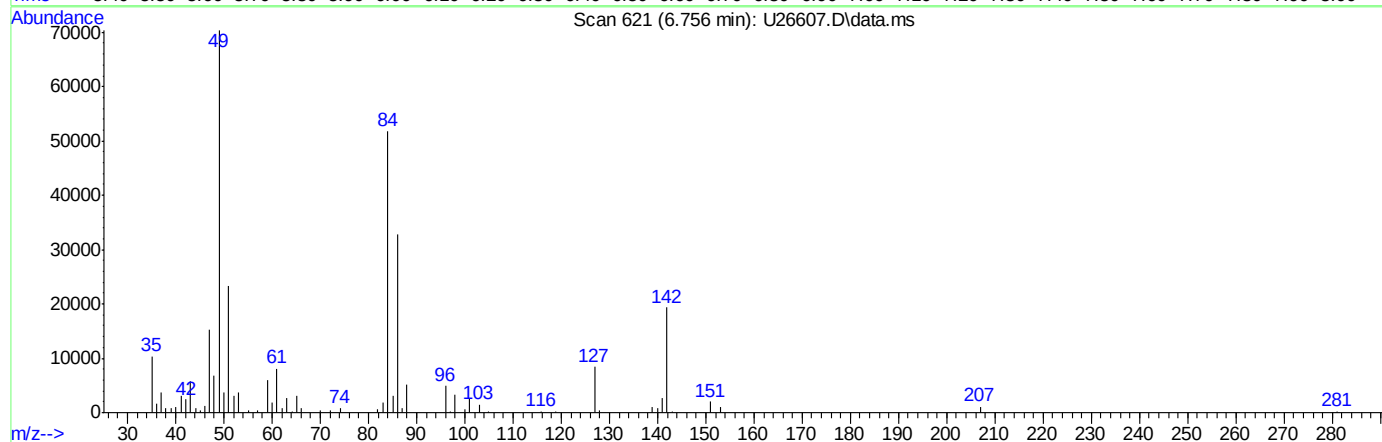
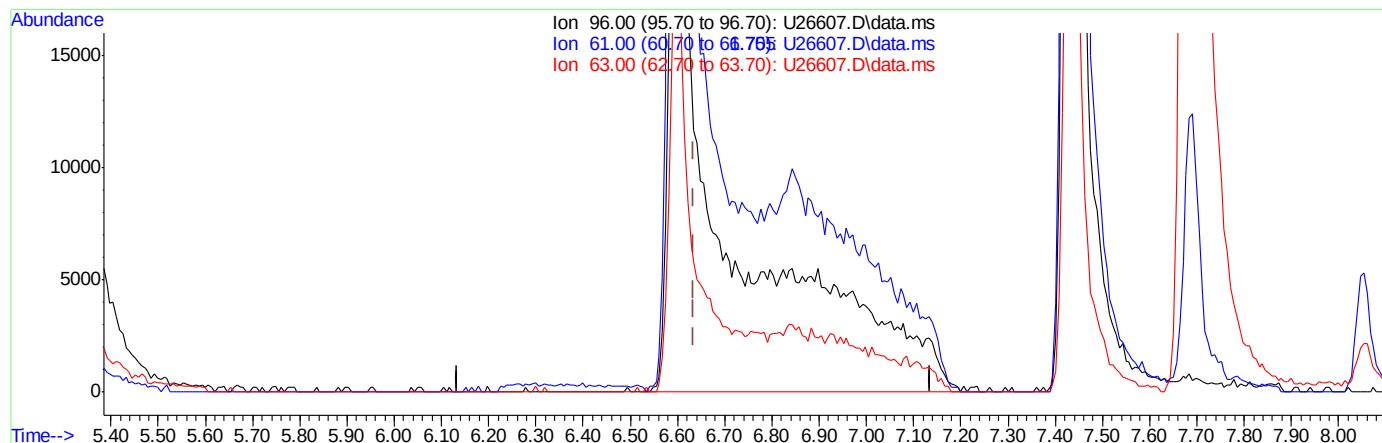
response 227384

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	173.71
63.00	57.60	47.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26607.D\data.ms

(15) 1,1-dichloroethene (P)

6.756min (+0.121) 44.63ppb m

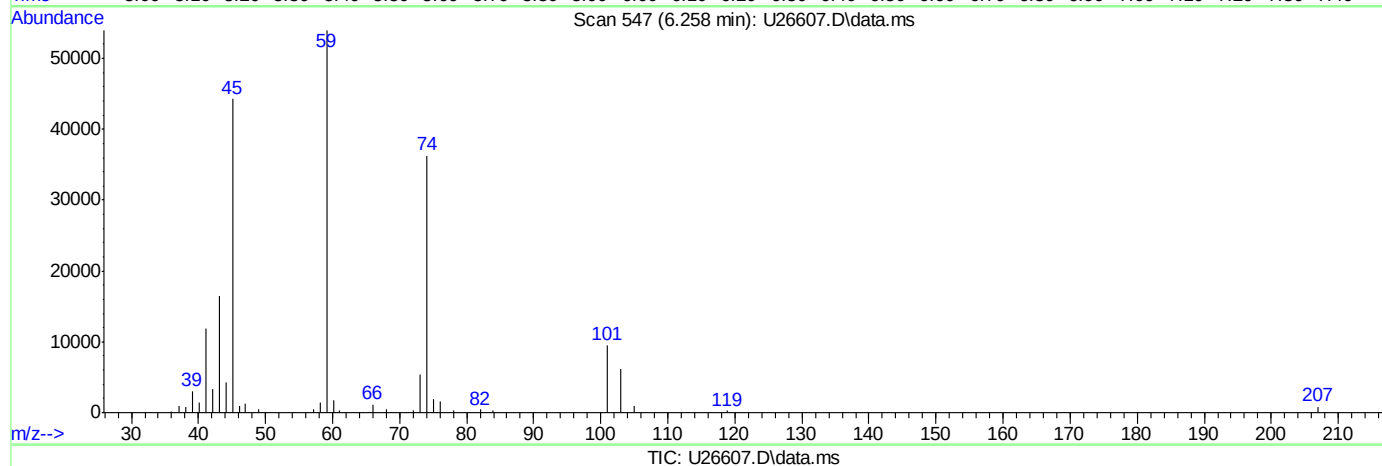
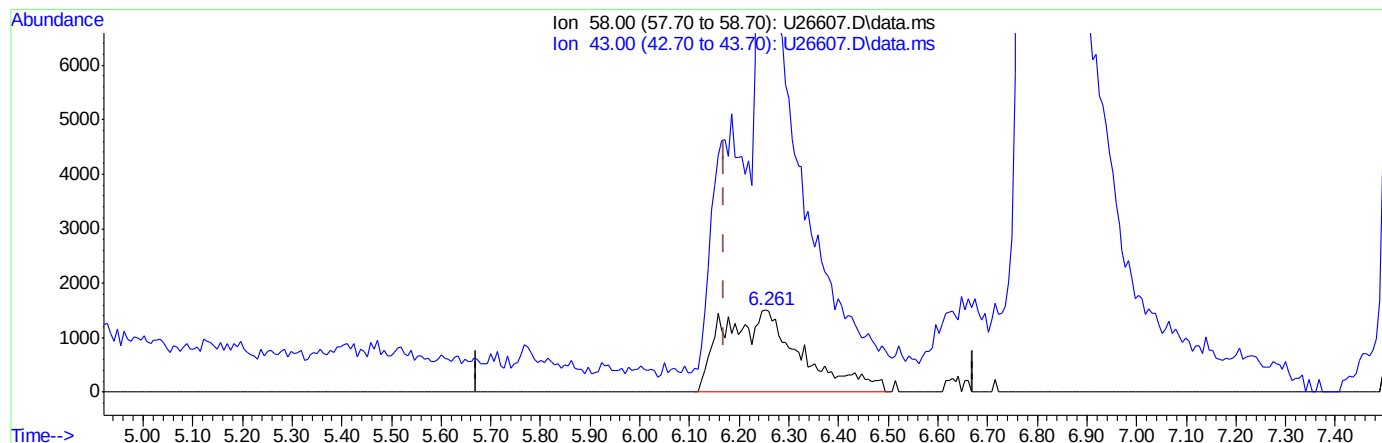
response 235856

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	165.78
63.00	57.60	55.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.261min (+0.090) 42.42ppb

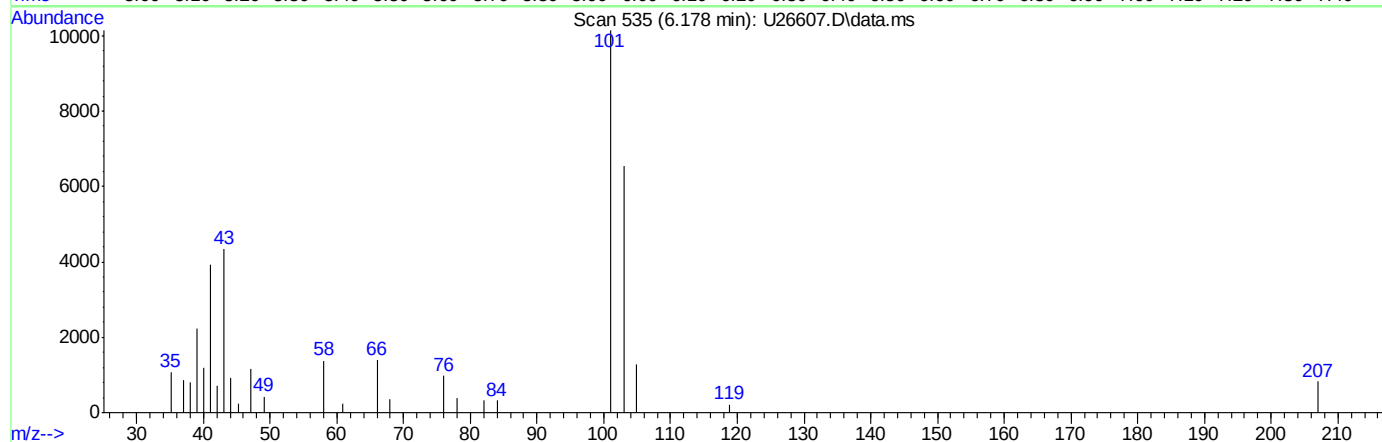
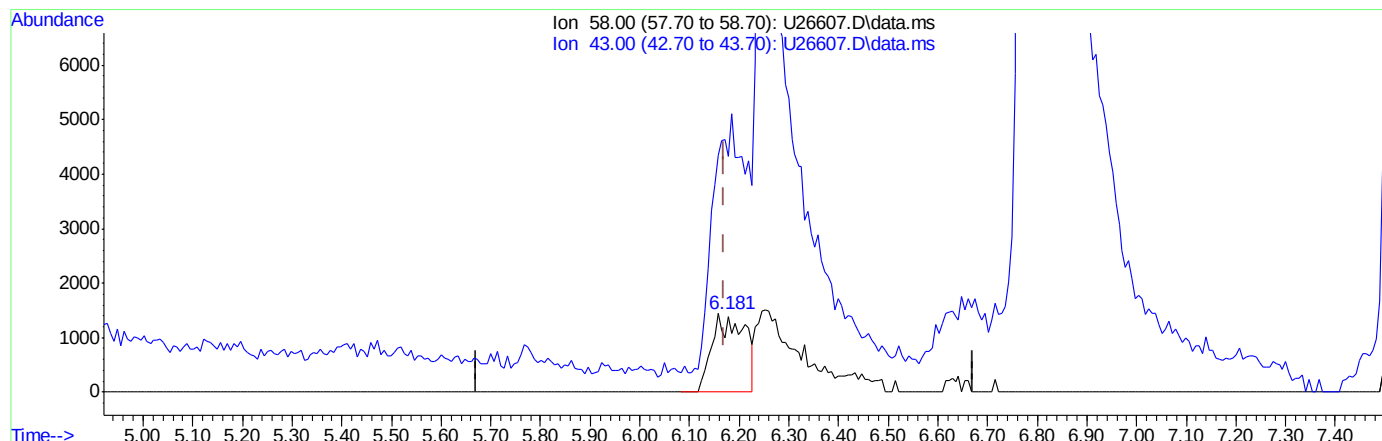
response 16304

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	1069.27#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26607.D
Acq On : 10 Mar 2015 12:39 pm
Operator : GaryK
Sample : d68173-1ms
Misc : ms33938,msu1117,,,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 13:26:59 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26607.D\data.ms

(16) acetone (P)

6.178min (+0.007) 16.67ppb m

response 6407

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	313.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26608.D
 Acq On : 10 Mar 2015 1:06 pm
 Operator : GaryK
 Sample : d68173-1msd
 Misc : ms33938,msu1117,,,,,5,5
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:30:44 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.689	65	122582	500.00	ppb	-0.05
4) pentafluorobenzene	8.958	168	408708	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.825	114	639208	50.00	ppb	0.00
66) chlorobenzene-d5	13.078	82	268000	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.642	152	319974	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.598	113	231740	49.56	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	99.12%		
60) toluene-d8 (s)	11.620	98	666426	51.77	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	103.54%		
82) bromofluorobenzene (s)	14.308	95	231297	51.44	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	102.88%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.763	59	178622m	489.96	ppb	
3) Ethanol	5.680	45	119221	5869.69	ppb	96
5) dichlorodifluoromethane	4.337	85	382490	72.93	ppb	100
6) chloromethane	4.564	50	446425	62.98	ppb	98
7) vinyl chloride	4.822	62	365186	61.55	ppb	99
8) bromomethane	5.298	96	257009	61.69	ppb	90
9) chloroethane	5.460	64	152833	61.16	ppb	82
10) ethyl ether	6.284	59	170661	51.96	ppb	88
11) acetonitrile	6.084	41	23840m	46.69	ppb	
12) trichlorofluoromethane	6.191	101	416457m	55.04	ppb	
13) freon-113	6.971	101	180039	30.40	ppb	89
15) 1,1-dichloroethene	6.756	96	232265m	44.00	ppb	
16) acetone	6.178	58	8583m	22.35	ppb	
17) Methyl Acetate	6.850	43	214710	36.86	ppb	# 70
18) methylene chloride	6.814	84	268605	50.68	ppb	86
19) methyl tert butyl ether	7.557	73	599263	50.42	ppb	94
20) acrylonitrile	6.732	53	75342	42.87	ppb	99
21) allyl chloride	6.879	41	322344	49.95	ppb	94
22) trans-1,2-dichloroethene	7.454	96	218891	45.63	ppb	# 75
23) iodomethane	6.747	142	498818	49.22	ppb	98
24) carbon disulfide	7.125	76	671266	39.97	ppb	93
25) propionitrile	8.065	54	15671	44.90	ppb	100
26) vinyl acetate	7.814	43	427605	92.63	ppb	98
27) chloroprene	8.067	53	282160	45.89	ppb	89
28) di-isopropyl ether	8.108	45	721980	53.68	ppb	96
29) methacrylonitrile	8.235	41	137168	50.68	ppb	92
30) 2-butanone	8.161	72	25852	45.80	ppb	# 1
31) Ethyl Acetate	8.107	43	603621	50.15	ug/L	# 53
32) Hexane	8.090	41	317714	51.12	ppb	# 72
33) 1,1-dichloroethane	7.705	63	354479	46.50	ppb	95
34) tert-butyl ethyl ether	8.505	59	689118	51.36	ppb	89
35) isobutyl alcohol	8.523	43	145683	303.08	ppb	# 40
36) 2,2-dichloropropane	8.573	77	203418	41.87	ppb	88
37) cis-1,2-dichloroethene	8.273	96	256930	48.46	ppb	# 80

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26608.D
 Acq On : 10 Mar 2015 1:06 pm
 Operator : GaryK
 Sample : d68173-1msd
 Misc : ms33938,msu1117,,,,5,5
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:30:44 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.442	128	143776	47.61	ppb	# 61
39) chloroform	8.477	83	396778	49.02	ppb	98
41) Tetrahydrofuran	8.843	42	67915	48.32	ppb	91
42) 1,1,1-trichloroethane	9.245	97	288373	40.73	ppb	95
44) Cyclohexane	9.543	56	260731	32.77	ppb	# 78
45) carbon tetrachloride	9.601	117	268973	41.55	ppb	94
46) 1,1-dichloropropene	9.399	75	239573	46.49	ppb	89
47) benzene	9.623	78	742676	48.08	ppb	98
48) 1,2-dichloroethane	9.137	62	302748	50.27	ppb	94
49) tert-amyl methyl ether	9.748	73	610268	53.42	ppb	96
50) heptane	10.105	43	263224	56.49	ppb	# 32
51) trichloroethene	10.243	95	247786	52.16	ppb	79
52) 1,2-dichloropropane	10.211	63	188894	49.47	ppb	97
53) dibromomethane	10.188	93	138814	48.39	ppb	91
54) bromodichloromethane	10.299	83	280365	48.37	ppb	98
55) Methylcyclohexane	10.766	83	291381	41.06	ppb	# 82
57) methyl methacrylate	10.409	69	101731	52.17	ppb	89
59) cis-1,3-dichloropropene	10.919	75	278413	50.81	ppb	88
61) 4-methyl-2-pentanone	11.027	43	209187	53.14	ppb	95
62) toluene	11.693	92	422754	48.37	ppb	96
63) trans-1,3-dichloropropene	11.340	75	223988	52.64	ppb	95
64) 1,1,2-trichloroethane	11.512	83	134407	51.46	ppb	94
65) ethyl methacrylate	11.724	69	197326	56.75	ppb	# 67
67) tetrachloroethene	12.435	166	190953	42.60	ppb	96
68) 1,3-dichloropropane	11.747	76	249738	51.87	ppb	95
69) dibromochloromethane	12.036	129	228703	45.74	ppb	98
70) 1,2-dibromoethane	12.289	107	185210	47.57	ppb	97
71) 2-hexanone	11.905	43	123383	45.70	ppb	94
72) chlorobenzene	13.115	112	493501	42.38	ppb	87
73) 1,1,1,2-tetrachloroethane	13.034	131	243208	47.46	ppb	97
74) ethylbenzene	13.290	91	814334	46.13	ppb	95
75) m,p-xylene	13.474	106	650900	91.29	ppb	90
76) o-xylene	13.887	106	358574	44.50	ppb	90
77) styrene	13.815	104	506008	45.01	ppb	94
78) bromoform	13.642	173	135942	44.00	ppb	97
79) trans-1,4-dichloro-2-b...	14.044	53	35206	33.80	ppb	# 1
81) isopropylbenzene	14.250	105	949450	48.64	ppb	96
83) bromobenzene	14.539	156	243488	48.83	ppb	# 77
84) 1,1,2,2-tetrachloroethane	13.893	83	221530	47.94	ppb	99
85) 1,2,3-trichloropropane	14.043	75	225140	49.39	ppb	99
86) n-propylbenzene	14.696	91	1010540	49.23	ppb	93
87) 2-chlorotoluene	14.813	91	625157	47.88	ppb	85
88) 4-chlorotoluene	14.890	91	588615	48.18	ppb	87
89) 1,3,5-trimethylbenzene	14.973	105	928145	52.94	ppb	94
90) tert-butylbenzene	15.278	91	459768	47.18	ppb	89
91) 1,2,4-trimethylbenzene	15.382	105	923355	50.41	ppb	98
92) sec-butylbenzene	15.501	105	1170452	50.33	ppb	95
93) 1,3-dichlorobenzene	15.603	146	481099	46.48	ppb	97
94) p-isopropyltoluene	15.674	119	1082112	52.36	ppb	96
95) 1,4-dichlorobenzene	15.671	146	498348	46.29	ppb	100

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:30:44 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

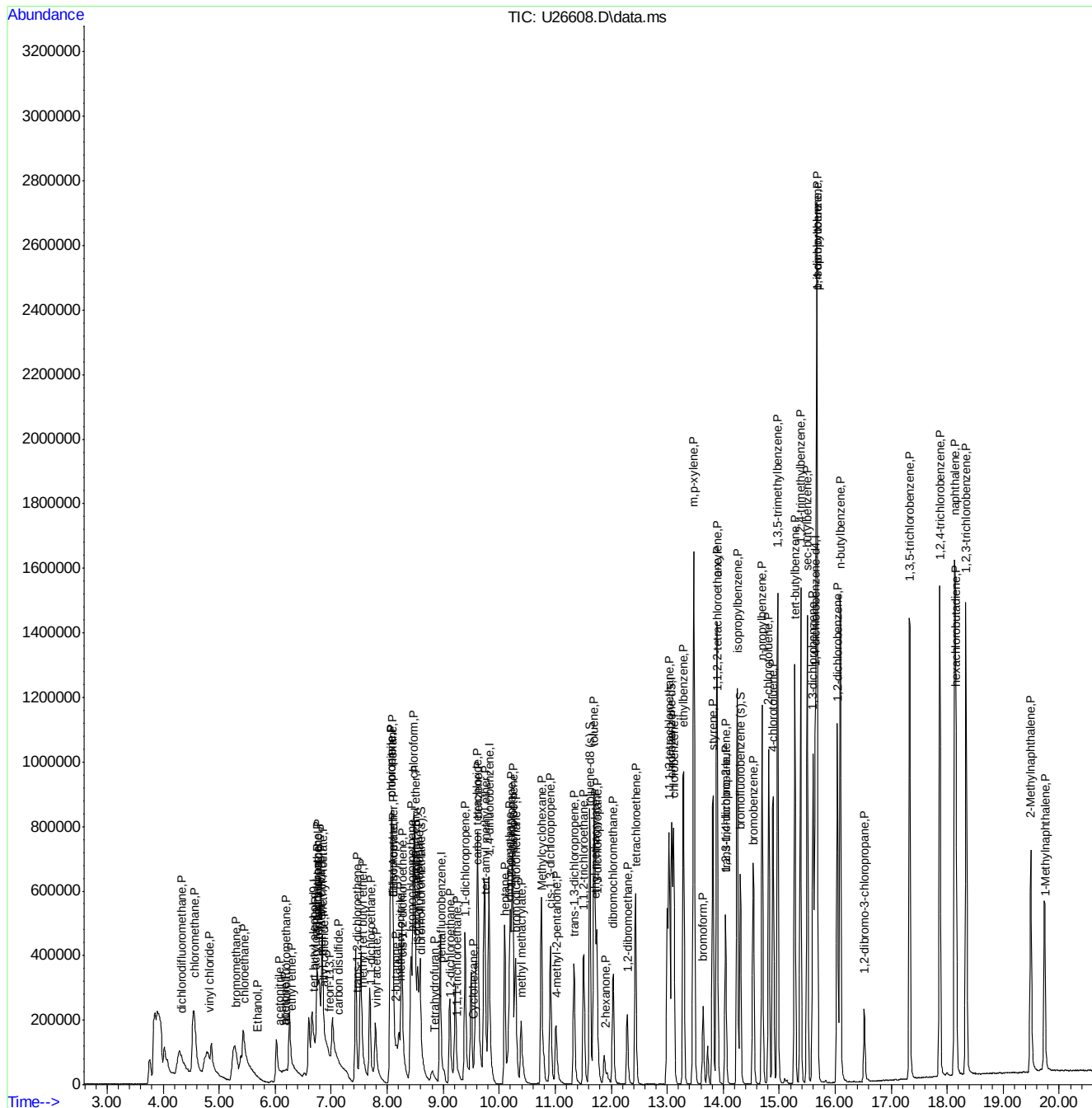
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2-dichlorobenzene	16.039	146	547914	46.46	ppb	97
97) n-butylbenzene	16.093	91	963930	54.18	ppb	89
98) 1,2-dibromo-3-chloropr...	16.522	75	60534	47.99	ppb #	68
99) 1,3,5-trichlorobenzene	17.331	180	504021	48.40	ug/L	98
100) 1,2,4-trichlorobenzene	17.869	180	538320	46.30	ppb	94
101) hexachlorobutadiene	18.157	225	188436	52.73	ppb	89
102) naphthalene	18.134	128	1371500	48.41	ppb	100
103) 2-Methylnaphthalene	19.497	142	446897	26.48	ug/L	96
104) 1-Methylnaphthalene	19.744	142	358251	27.75	ug/L	96
105) 1,2,3-trichlorobenzene	18.340	180	543817	52.83	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:30:44 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



U150219w.m Tue Mar 10 13:31:17 2015

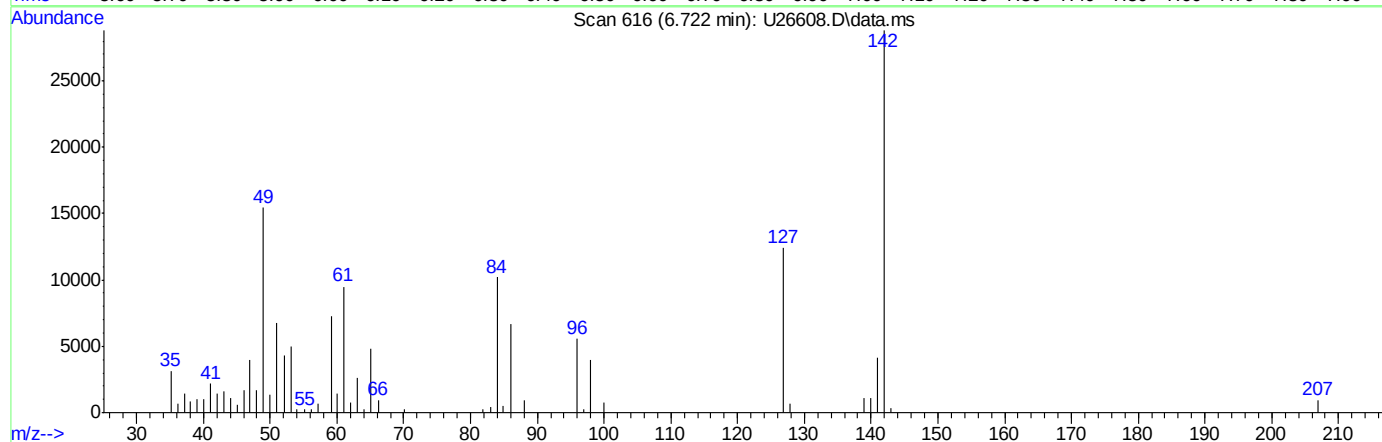
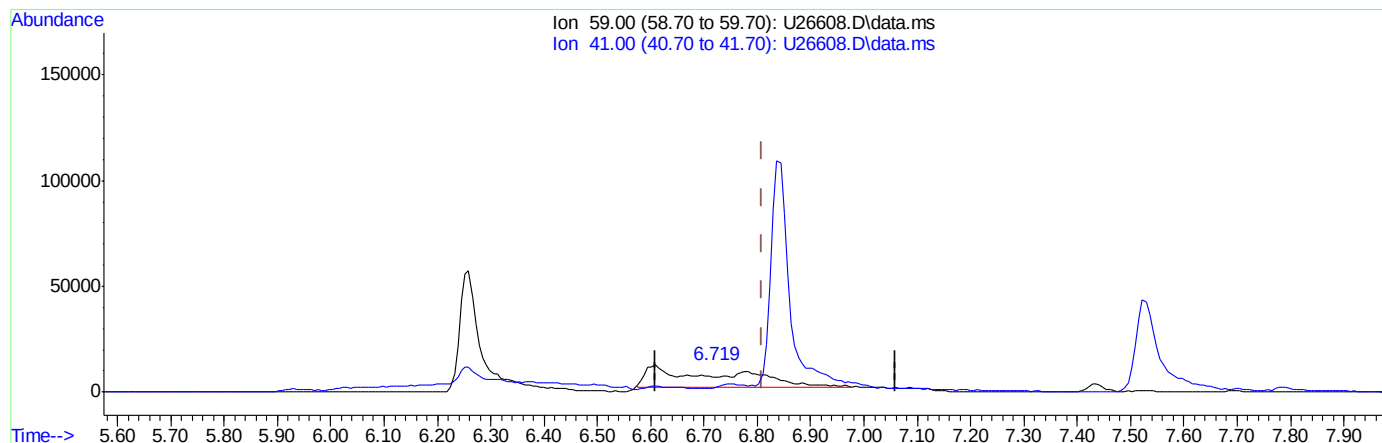
Page: 4

7.4.4

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.719min (-0.091) 272.98ppb

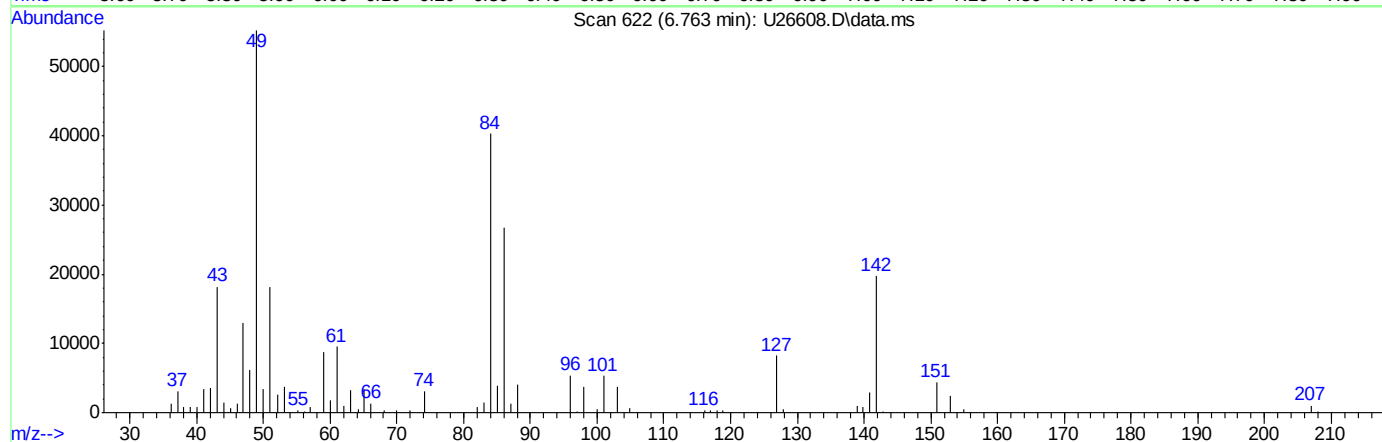
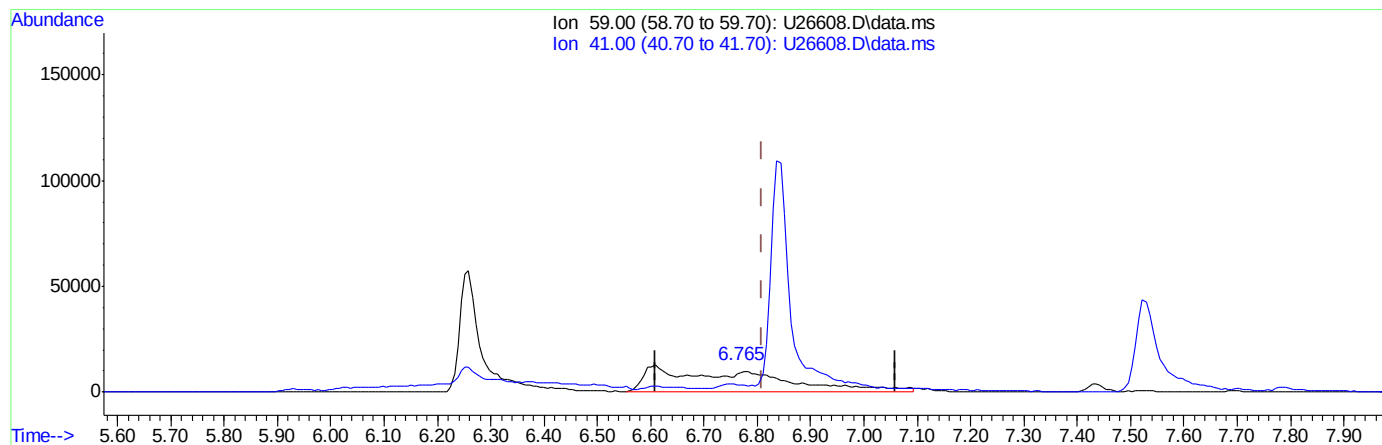
response 99518

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	17.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26608.D\data.ms

(2) tertiary butyl alcohol (P)

6.763min (-0.047) 489.96ppb m

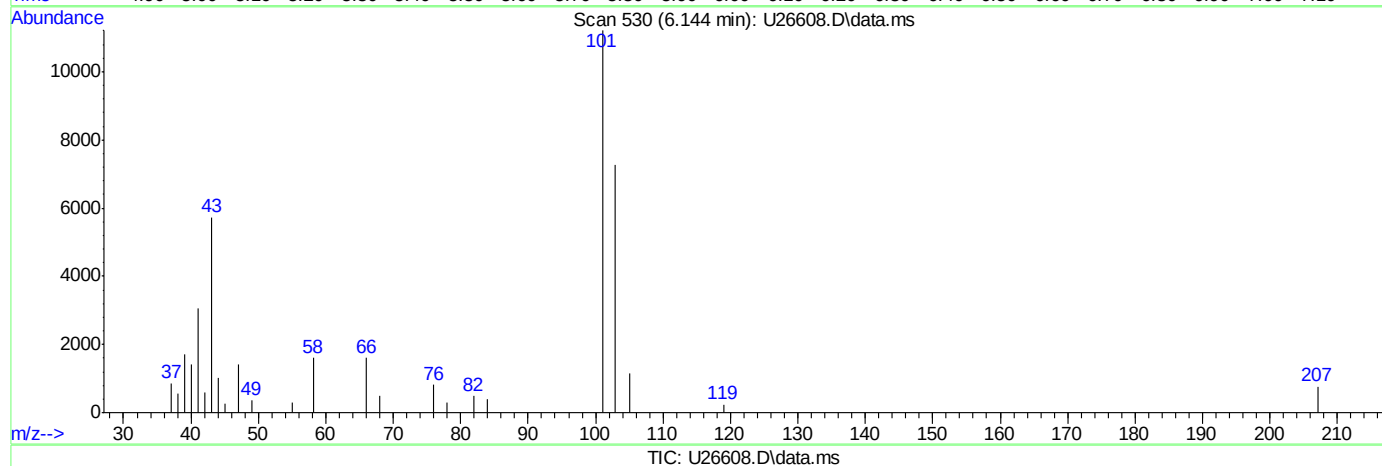
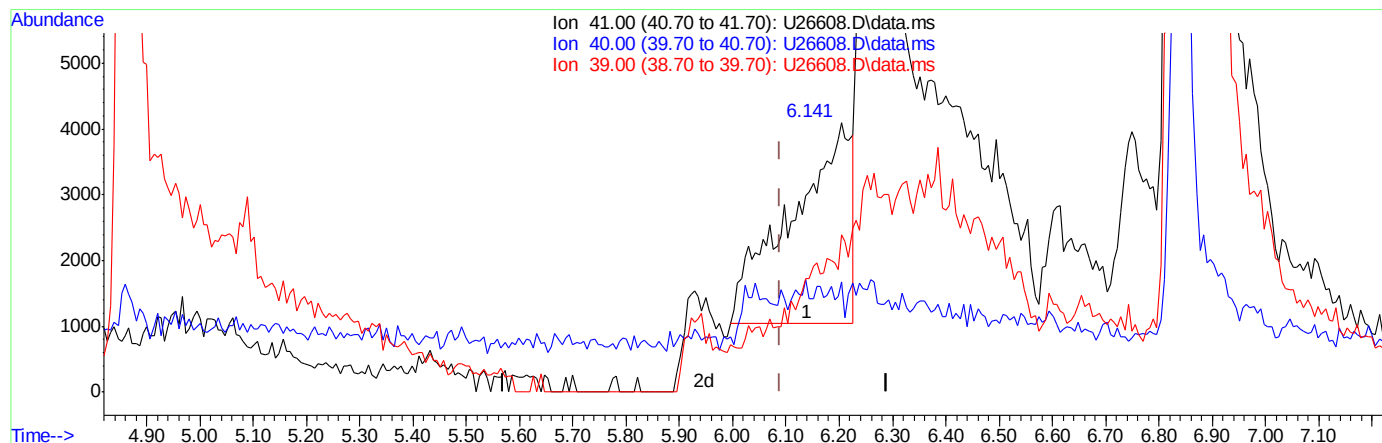
response 178622

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	38.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(11) acetonitrile (P)

6.141min (+0.051) 46.24ppb

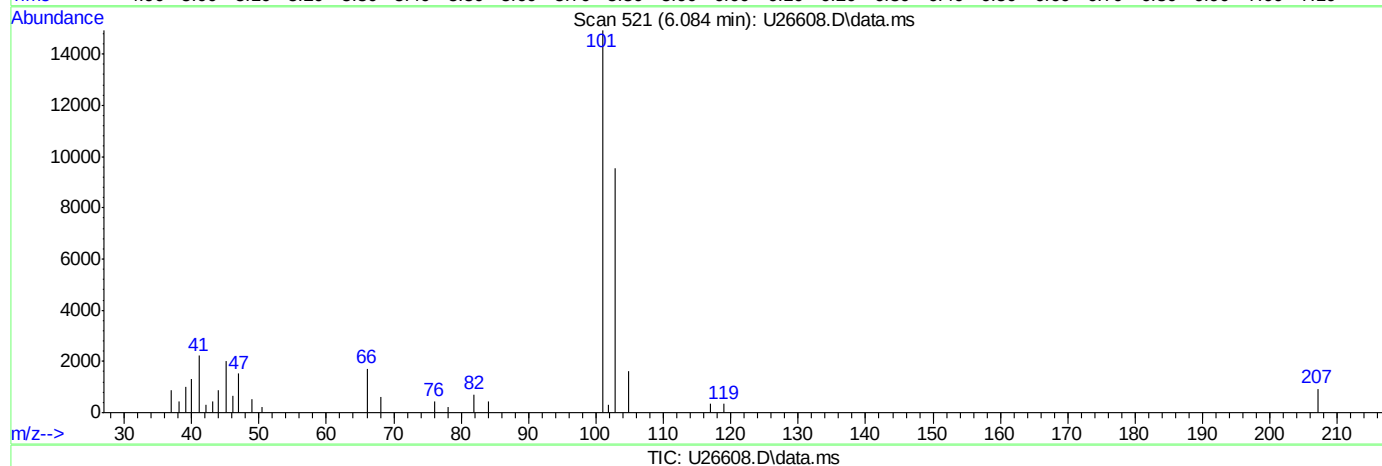
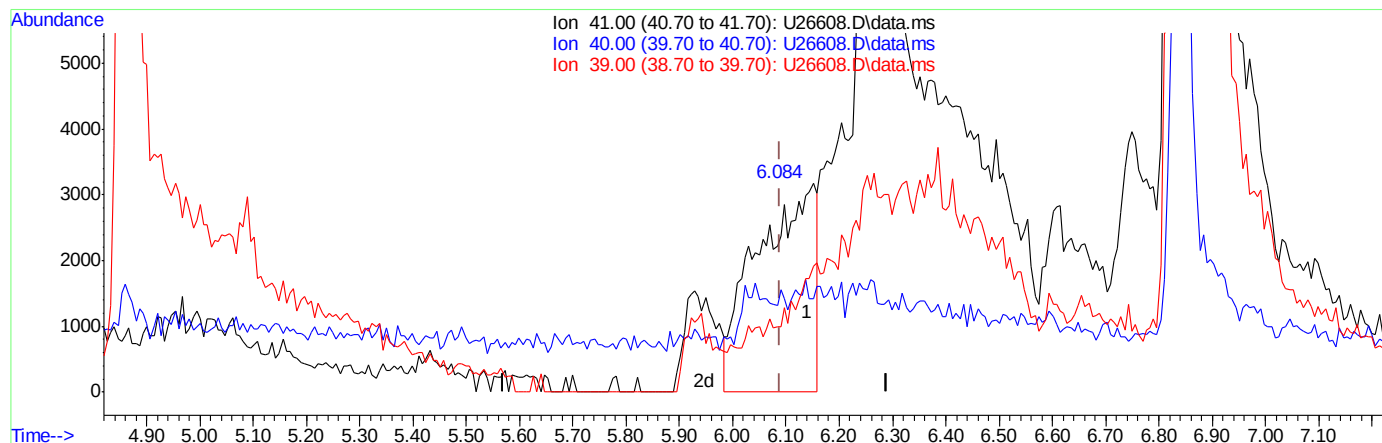
response 23627

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	28.64#
39.00	24.50	49.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(11) acetonitrile (P)

6.084min (-0.006) 46.69ppb m

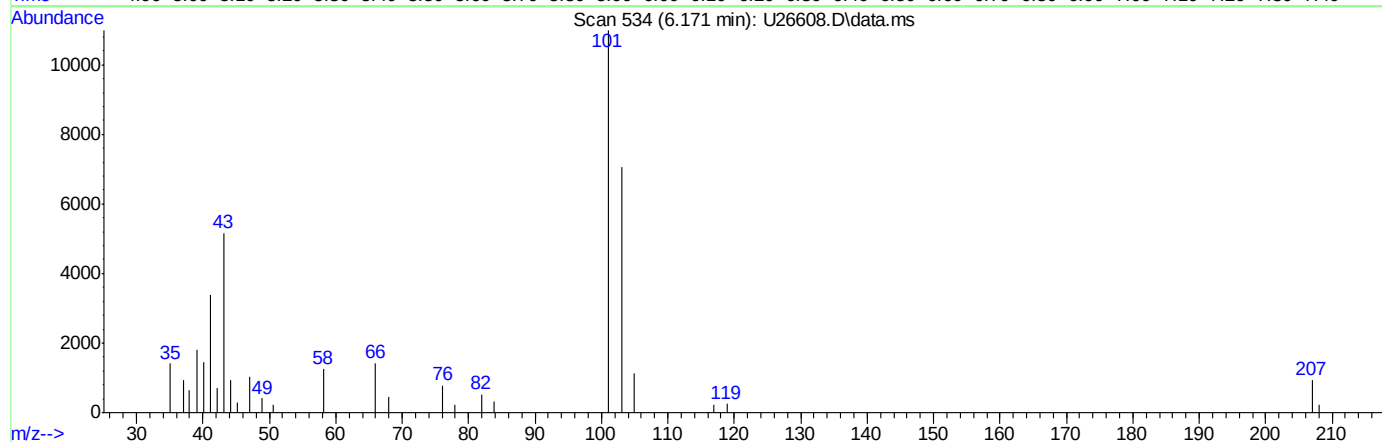
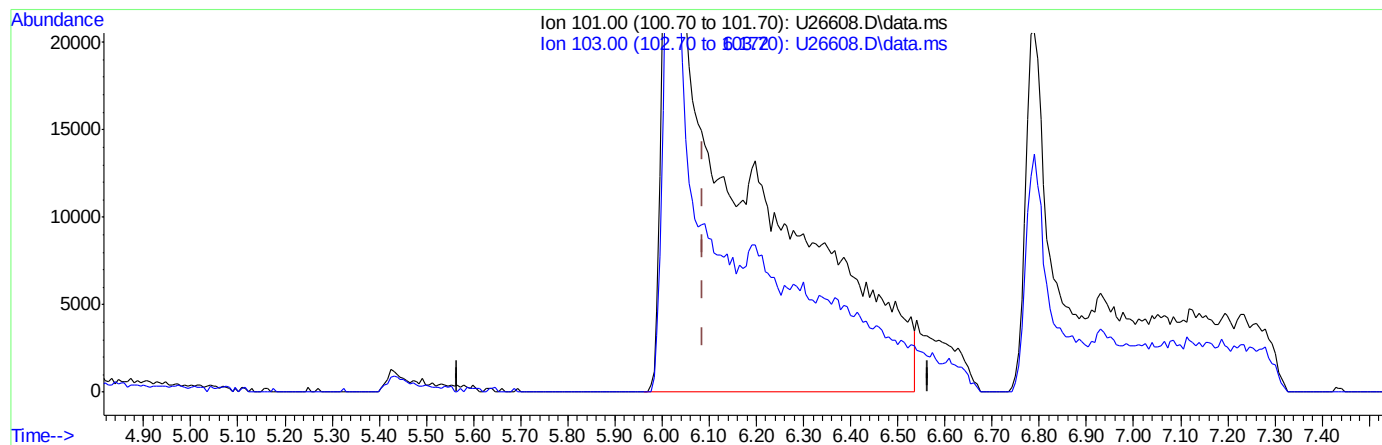
response 23840

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	59.58#
39.00	24.50	44.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26608.D\data.ms

(12) trichlorofluoromethane (P)

6.172min (+0.086) 52.41ppb

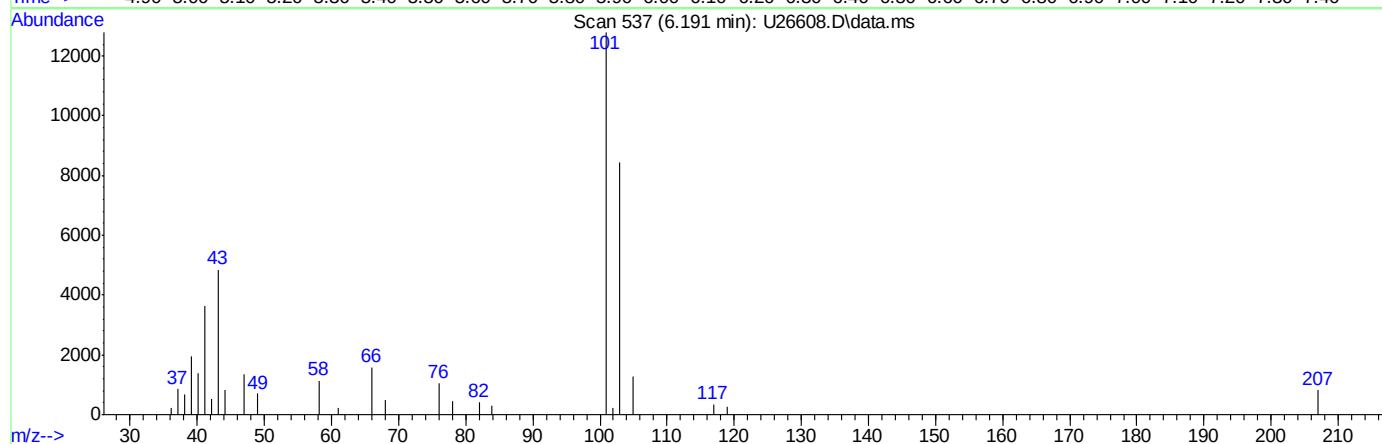
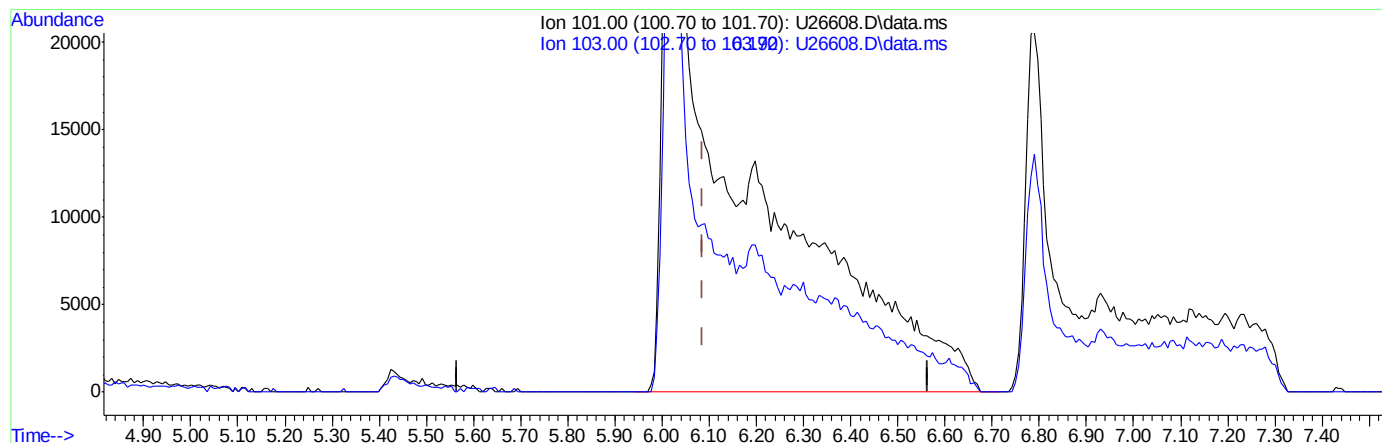
response 396617

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	64.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26608.D\data.ms

(12) trichlorofluoromethane (P)

6.191min (+0.105) 55.04ppb m

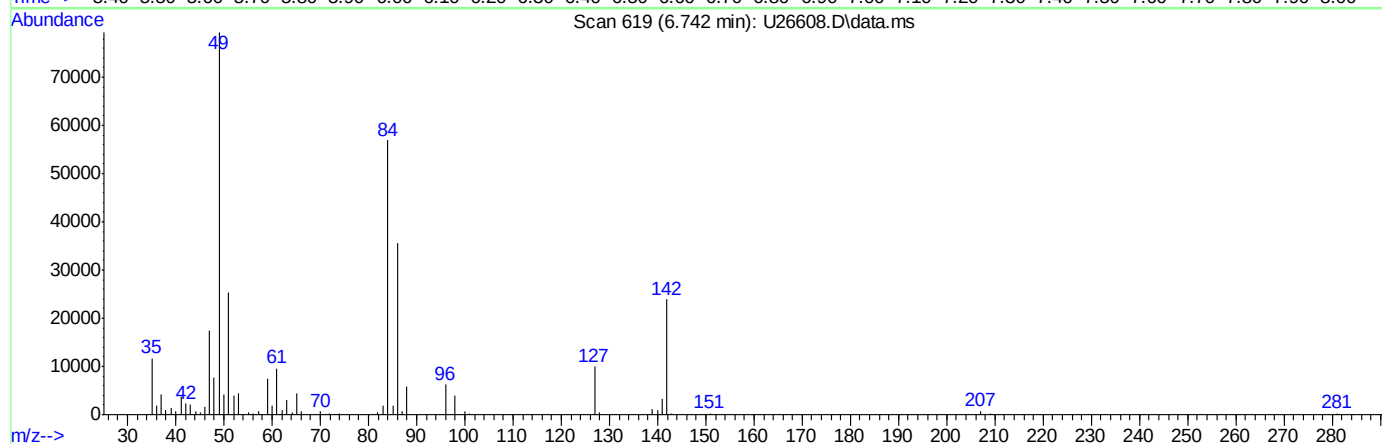
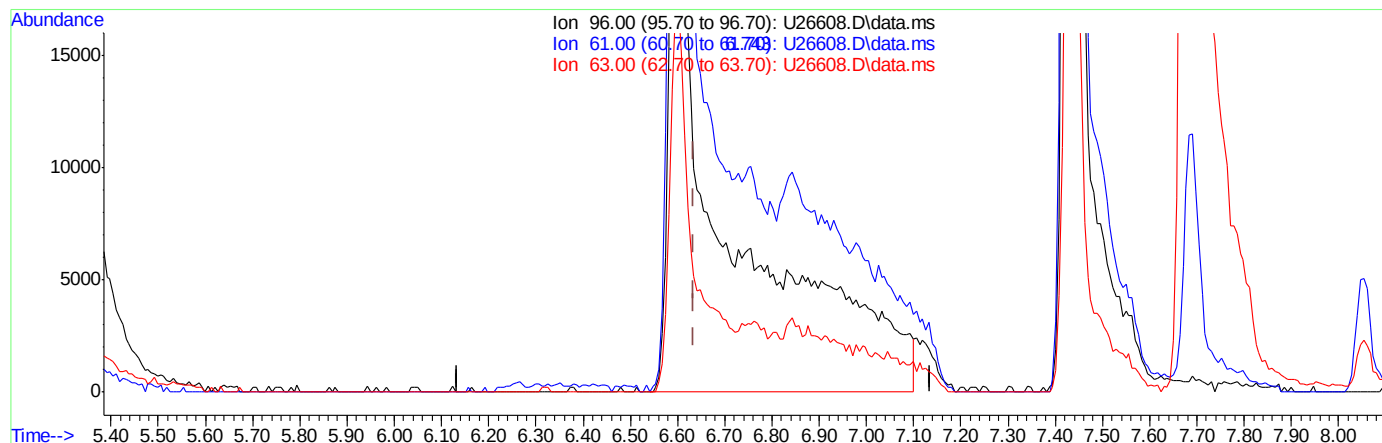
response 416457

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	65.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26608.D\data.ms

(15) 1,1-dichloroethene (P)

6.743min (+0.108) 42.70ppb

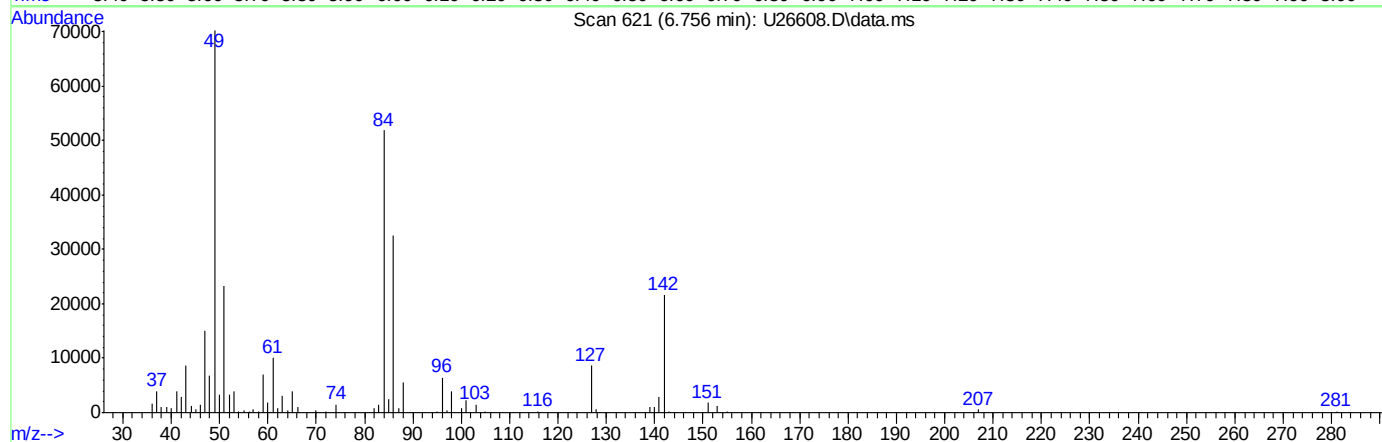
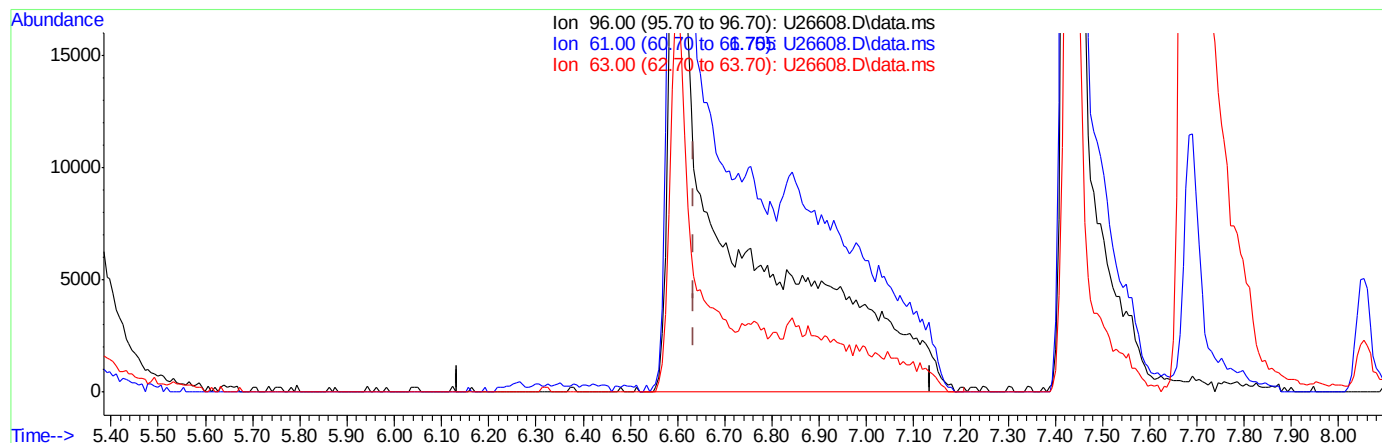
response 225391

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	155.40#
63.00	57.60	47.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.756min (+0.121) 44.00ppb m

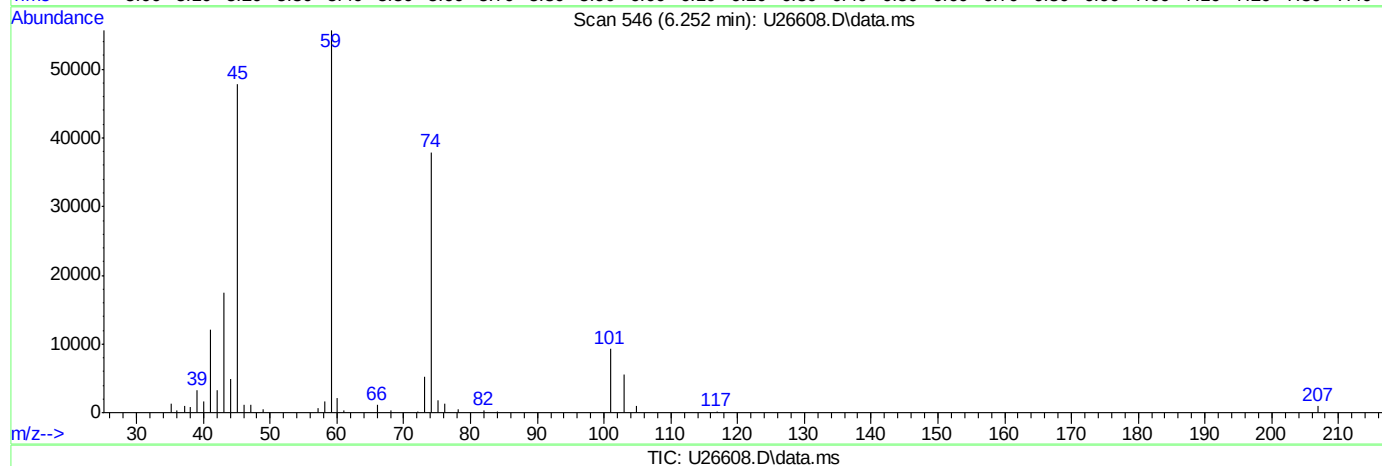
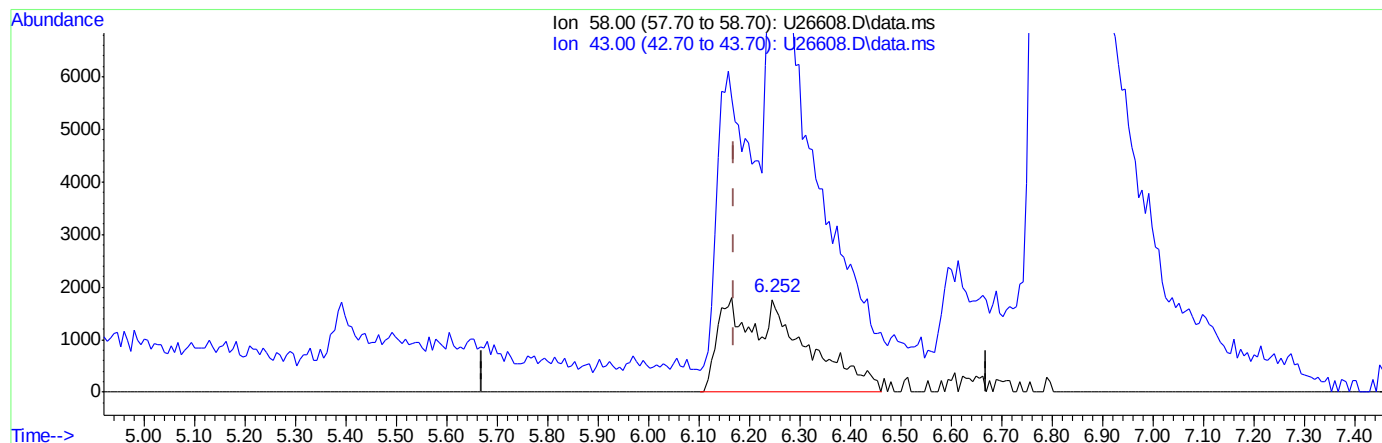
response 232265

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	156.26#
63.00	57.60	47.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.252min (+0.081) 49.03ppb

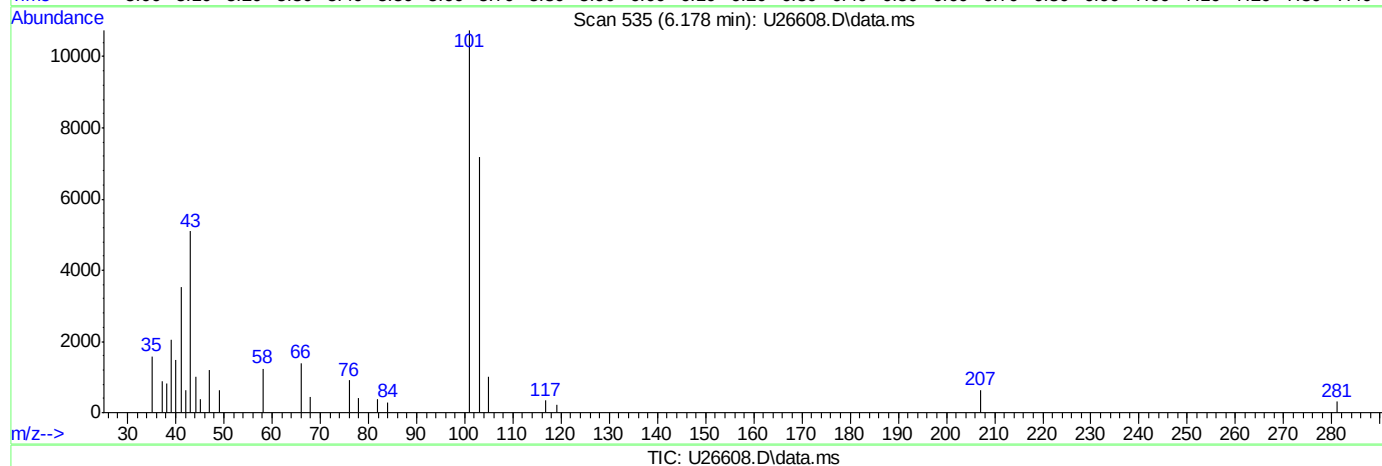
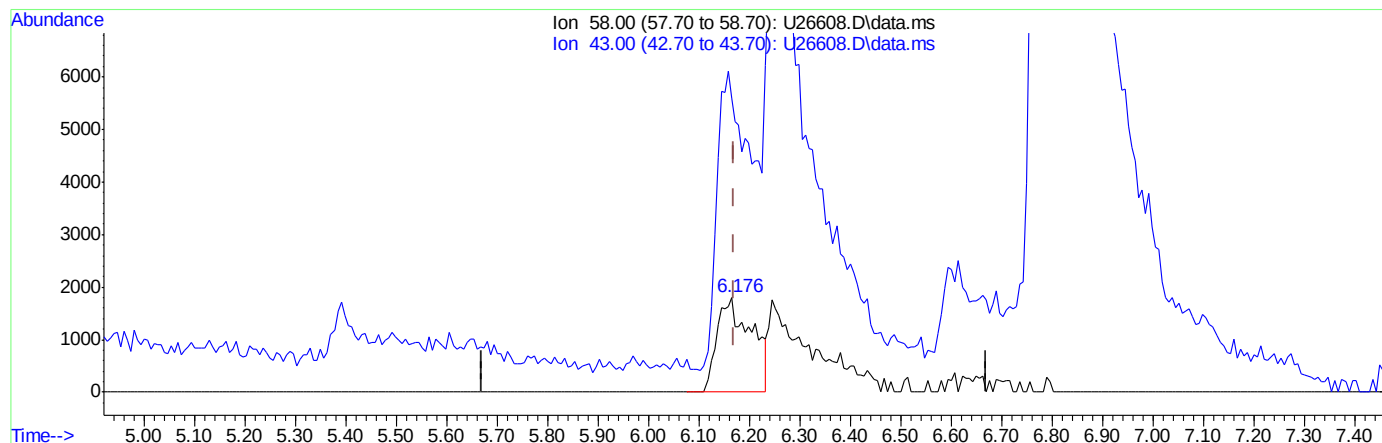
response 18824

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	1072.40#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26608.D
Acq On : 10 Mar 2015 1:06 pm
Operator : GaryK
Sample : d68173-1msd
Misc : ms33938,msu1117,,,,,5,5
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 13:29:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.178min (+0.007) 22.35ppb m

response 8583

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	410.32#
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8260

Data File : D:\msdchem\1\data\U150219\U26285.D

Vial: 2

Acq On : 19 Feb 2015 1:39 pm

Operator: GaryK

Sample : bfb

Inst : MSU

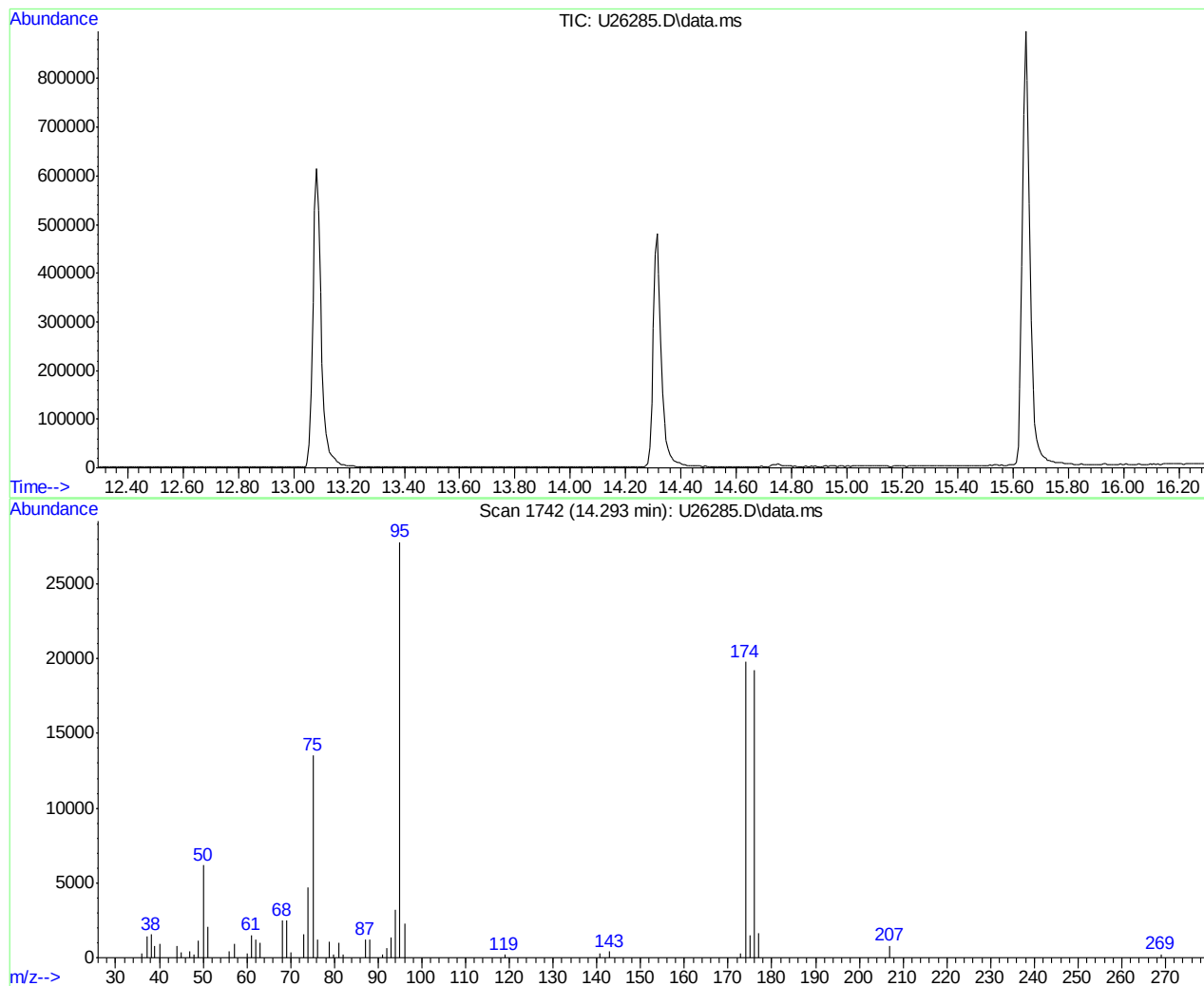
Misc : ms33880,msu1106,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U150115w.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Scan 1742

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.2	6176	PASS
75	95	30	60	48.7	13542	PASS
95	95	100	100	100.0	27808	PASS
96	95	5	9	8.1	2253	PASS
173	174	0.00	2	1.3	256	PASS
174	95	50	150	71.1	19768	PASS
175	174	5	9	7.4	1471	PASS
176	174	95	101	97.3	19232	PASS
177	176	5	9	8.6	1660	PASS

Scan 1742 (14.293 min): U26285.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	313	51.10	2100	74.00	4698	93.00	1364
37.10	1406	56.00	444	75.10	13542	94.00	3199
38.10	1539	57.10	918	76.10	1247	95.00	27808
39.00	773	60.00	268	78.90	1078	96.10	2253
40.00	940	61.00	1528	79.90	222	119.00	203
44.00	756	62.10	1240	81.00	1005	140.80	267
45.00	354	63.10	1000	82.00	212	142.90	416
47.00	452	68.00	2484	87.00	1232	172.90	256
48.00	220	69.00	2478	88.00	1182	174.00	19768
49.00	1107	70.00	344	91.00	222	175.00	1471
50.10	6176	73.10	1550	92.00	651	176.00	19232

Scan 1742 (14.293 min): U26285.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	1660						
207.00	815						
269.00	236						

SW-846 Method 8260

Data File : D:\msdchem\1\data\U150220\U26307.D

Vial: 7

Acq On : 20 Feb 2015 12:07 pm

Operator: GaryK

Sample : bfb

Inst : MSU

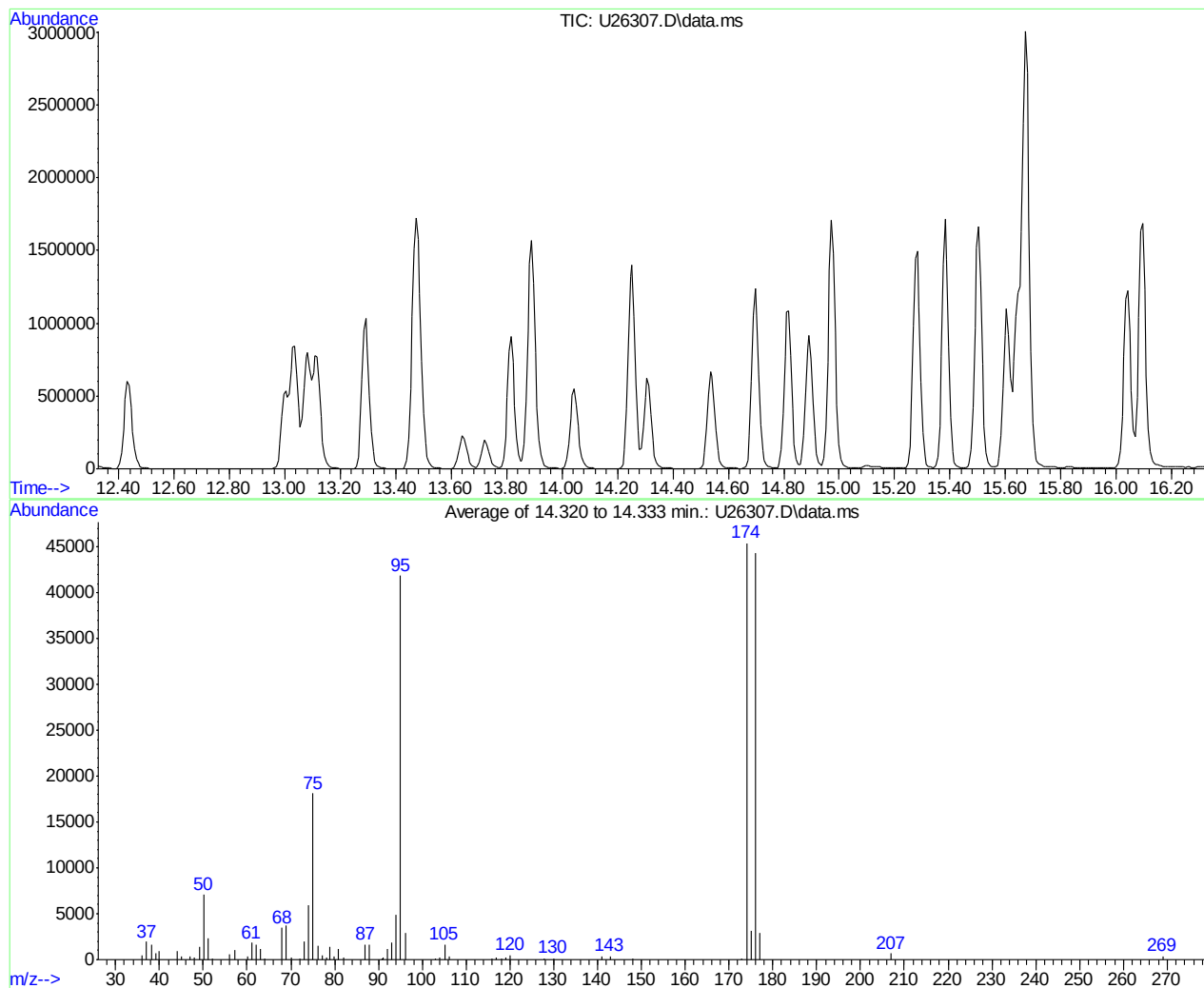
Misc : ms33880,msu1106,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U150219w.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Average of 14.320 to 14.333 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	7070	PASS
75	95	30	60	43.3	18145	PASS
95	95	100	100	100.0	41877	PASS
96	95	5	9	6.9	2909	PASS
173	174	0.00	2	0.2	104	PASS
174	95	50	150	108.5	45424	PASS
175	174	5	9	7.0	3173	PASS
176	174	95	101	97.5	44291	PASS
177	176	5	9	6.6	2943	PASS

U26307.D U150219w.m Fri Feb 20 14:26:47 2015

Average of 14.320 to 14.333 min.: U26307.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	504	51.10	2345	70.10	255.333	81.95	251
37.10	1947.33	52.10	175	72.10	137.333	87.00	1682
38.10	1684.33	56.00	604.333	73.00	1935.67	88.00	1665.33
39.10	677.333	57.10	1106.67	74.10	5988.33	90.90	148.333
40.00	895	60.05	325.333	75.10	18144.7	91.10	180
44.10	917.333	61.10	1819.67	76.10	1472.33	92.00	1140
45.05	321	62.05	1683.67	77.10	437.667	93.00	1874
47.00	396	63.05	1207	78.05	292	94.10	4854.33
47.95	185.333	64.10	91	78.95	1378.33	95.05	41877.3
49.10	1433.33	68.00	3444.33	79.95	310.667	96.05	2909
50.10	7069.67	69.00	3679.33	80.95	1213	103.10	93.3333

Average of 14.320 to 14.333 min.: U26307.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
104.00	233.333	142.90	411				
105.10	1647.67	148.00	77				
106.05	351	172.90	104				
115.90	96.6667	174.00	45424				
116.90	288.667	175.00	3173				
118.00	81.3333	176.00	44290.7				
118.95	243	177.00	2942.67				
120.10	520	207.05	690				
127.90	103	269.05	368.667				
129.90	123						
140.90	368.333						

SW-846 Method 8260

Data File : D:\msdchem\1\data\U150223\U26336.D

Vial: 1

Acq On : 23 Feb 2015 8:27 am

Operator: GaryK

Sample : bfb

Inst : MSU

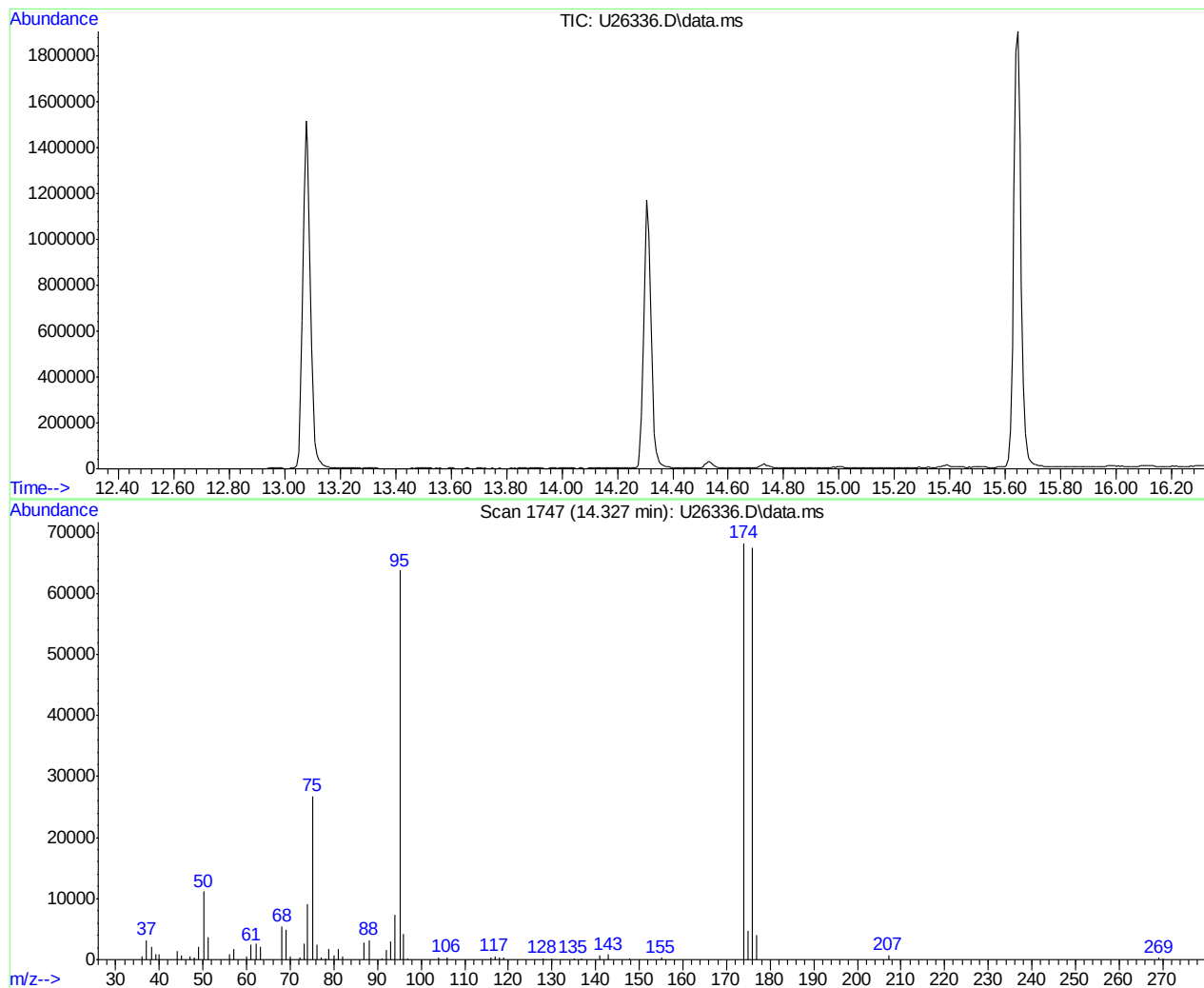
Misc : ms33891,msu1107,,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U150219w.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Scan 1747

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	11148	PASS
75	95	30	60	42.0	26824	PASS
95	95	100	100	100.0	63800	PASS
96	95	5	9	6.7	4260	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	107.0	68256	PASS
175	174	5	9	6.9	4718	PASS
176	174	95	101	98.8	67440	PASS
177	176	5	9	5.9	3970	PASS

U26336.D U150219w.m Mon Feb 23 10:46:42 2015

Scan 1747 (14.327 min): U26336.D\data.ms
blk

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	460	51.10	3620	73.10	2550	88.00	3191
37.10	3181	56.00	873	74.00	9126	91.00	252
38.10	2143	57.00	1782	75.10	26824	92.10	1523
39.10	916	60.10	468	76.10	2381	93.00	2980
40.00	903	61.00	2428	77.00	292	94.00	7419
44.10	1332	62.10	2577	78.00	261	95.10	63800
45.00	692	63.10	2020	78.90	1768	96.00	4260
47.10	569	68.10	5430	80.00	620	96.90	214
48.10	370	69.00	4896	81.00	1710	104.00	297
49.10	2084	70.10	447	82.00	444	105.90	360
50.10	11148	72.10	361	87.00	2840	115.90	301

Scan 1747 (14.327 min): U26336.D\data.ms
blk

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.90	540	174.00	68256				
117.90	311	175.00	4718				
118.90	340	176.00	67440				
127.90	254	177.00	3970				
130.00	231	207.10	791				
135.00	211	269.10	275				
136.90	259	270.10	210				
140.90	723						
143.00	837						
147.90	202						
155.00	300						

SW-846 Method 8260

Data File : D:\msdchem\1\data\U150309\U26570.D

Vial: 3

Acq On : 9 Mar 2015 9:51 am

Operator: GaryK

Sample : bfb

Inst : MSU

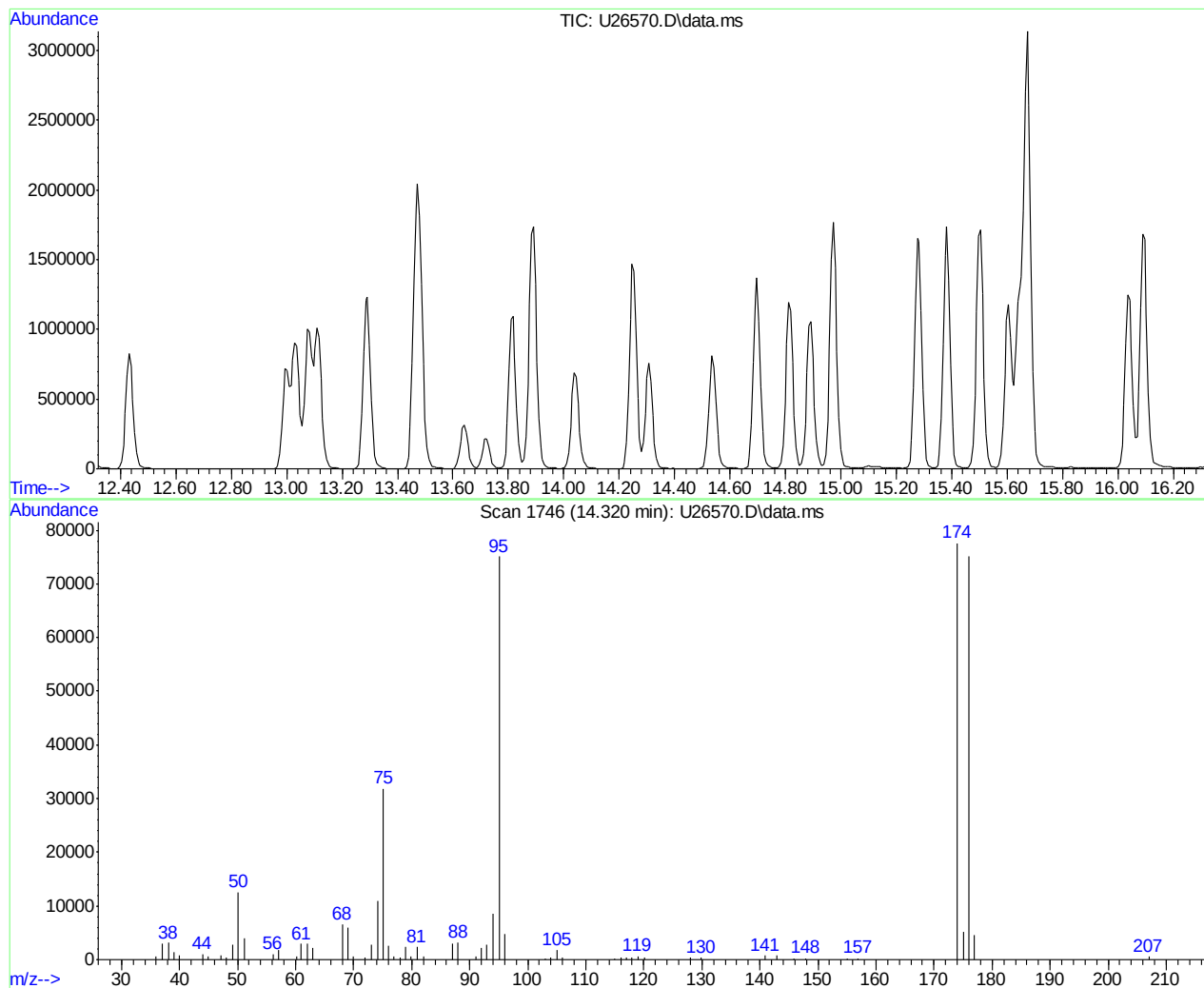
Misc : ms33941,msu1116,,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U150219w.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Scan 1746

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	12548	PASS
75	95	30	60	42.5	31896	PASS
95	95	100	100	100.0	75112	PASS
96	95	5	9	6.4	4829	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	103.3	77608	PASS
175	174	5	9	6.7	5211	PASS
176	174	95	101	96.8	75112	PASS
177	176	5	9	6.2	4665	PASS

Scan 1746 (14.320 min): U26570.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	627	51.10	4081	73.10	2824	88.00	3255
37.10	3006	56.10	1079	74.10	10840	91.00	557
38.10	3115	57.10	1846	75.10	31896	92.00	2099
39.10	1360	60.10	643	76.00	2628	93.00	2875
40.00	745	61.00	2945	77.00	690	94.10	8514
44.00	1085	62.10	2937	78.00	474	95.10	75112
45.00	570	63.00	2255	79.00	2387	96.00	4829
47.10	720	68.00	6585	79.90	589	103.10	206
48.00	424	69.10	6029	80.90	2359	104.00	466
49.10	2803	70.00	572	82.00	583	105.10	1878
50.10	12548	72.00	377	87.00	3064	106.00	492

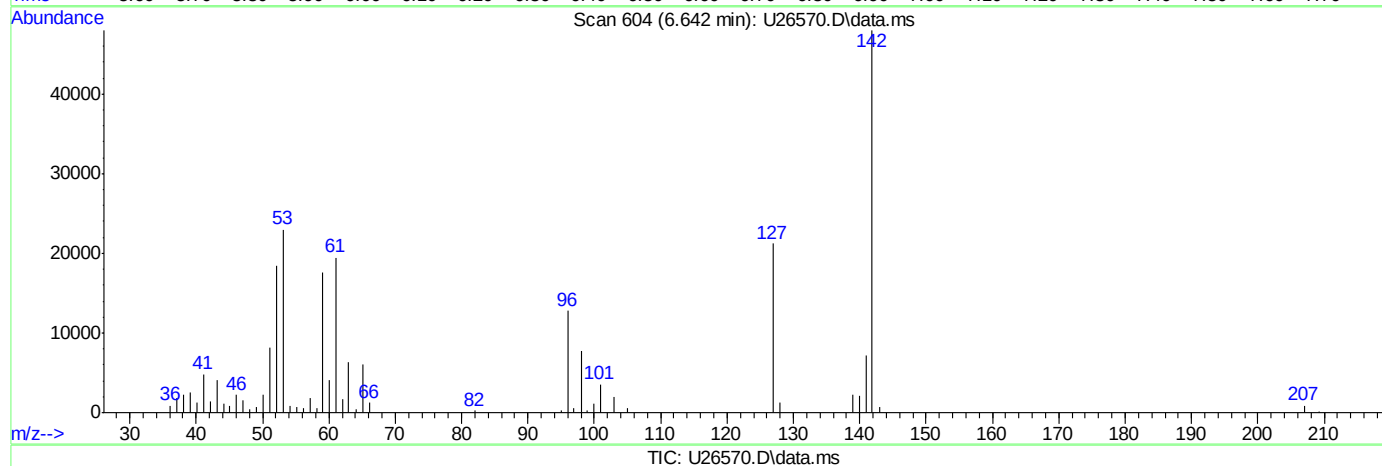
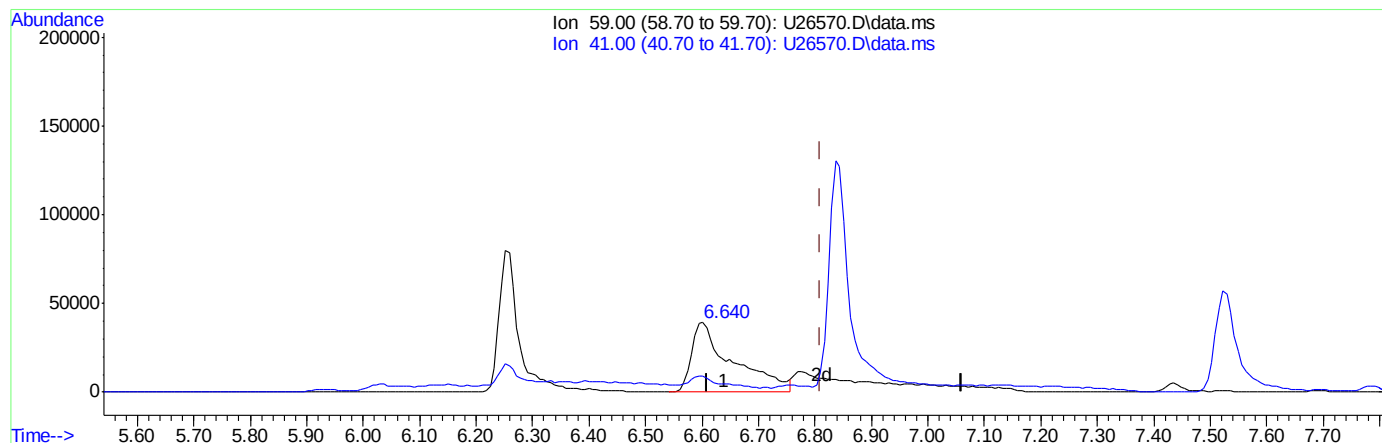
Scan 1746 (14.320 min): U26570.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
114.90	209	147.90	277				
116.00	402	155.00	249				
117.00	477	156.90	265				
117.90	371	174.00	77608				
119.00	610	175.00	5211				
120.10	398	176.00	75112				
128.00	337	177.00	4665				
129.90	393	207.00	590				
140.90	783						
142.90	745						
145.90	221						

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.640min (-0.170) 299.88ppb

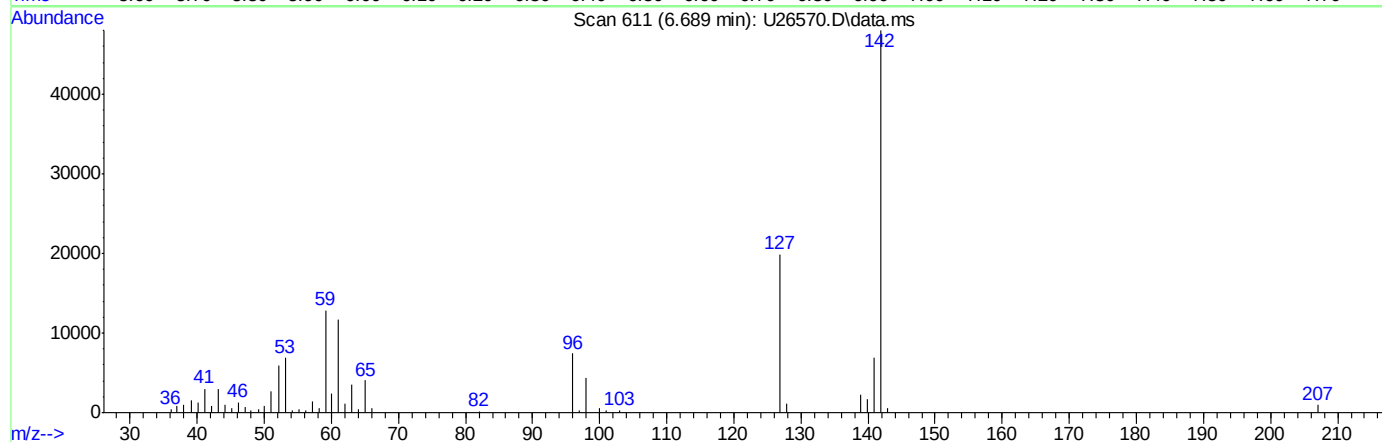
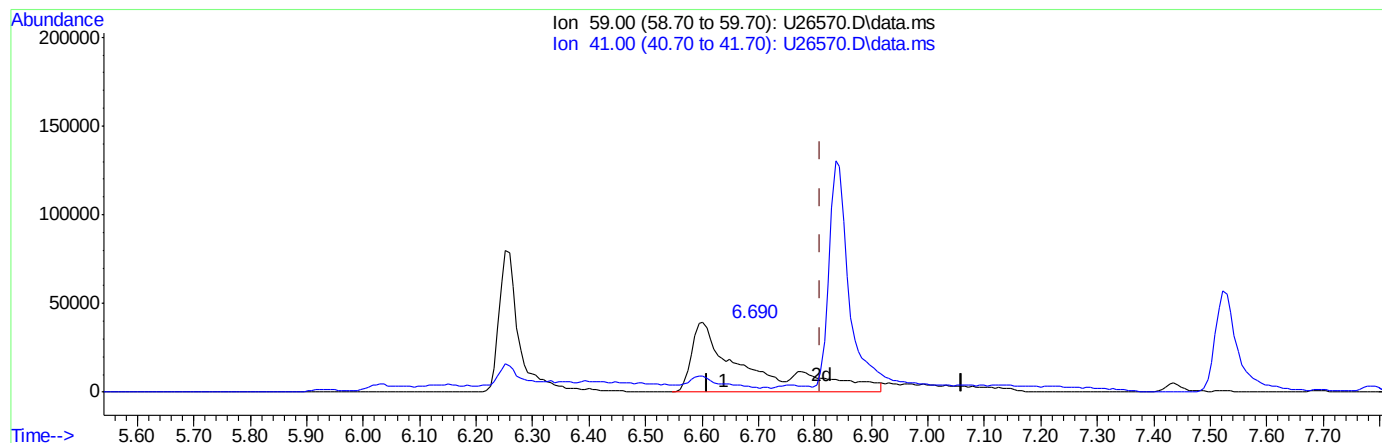
response 199799

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	5.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(2) tertiary butyl alcohol (P)

6.689min (-0.121) 407.48ppb m

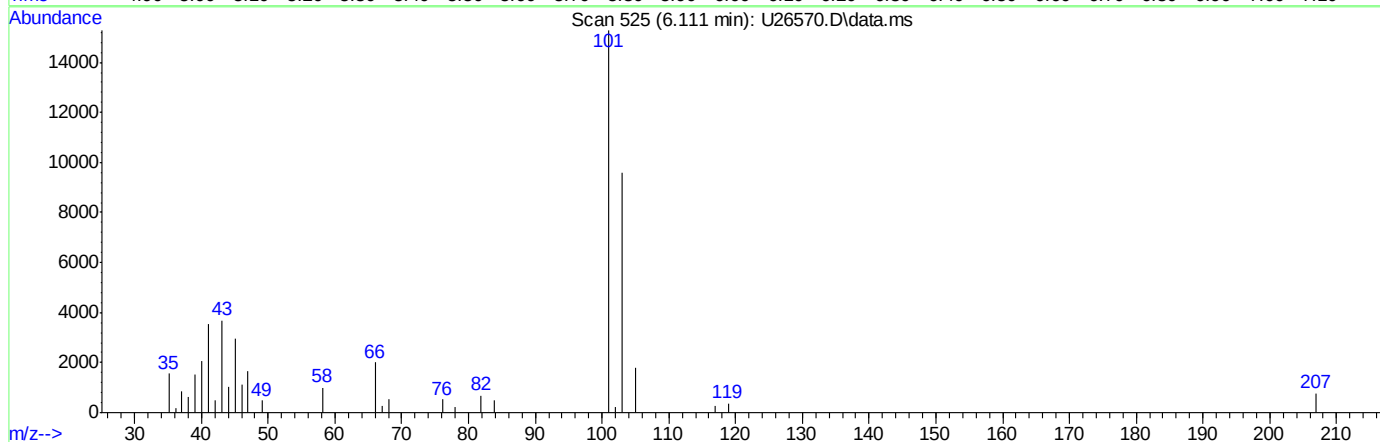
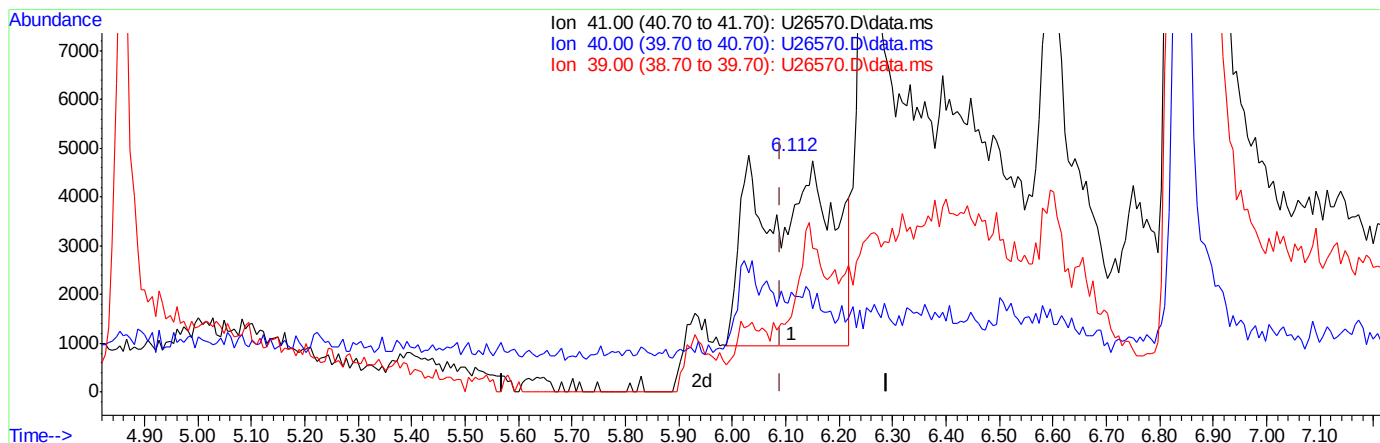
response 271489

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	23.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(11) acetonitrile (P)

6.112min (+0.022) 59.80ppb

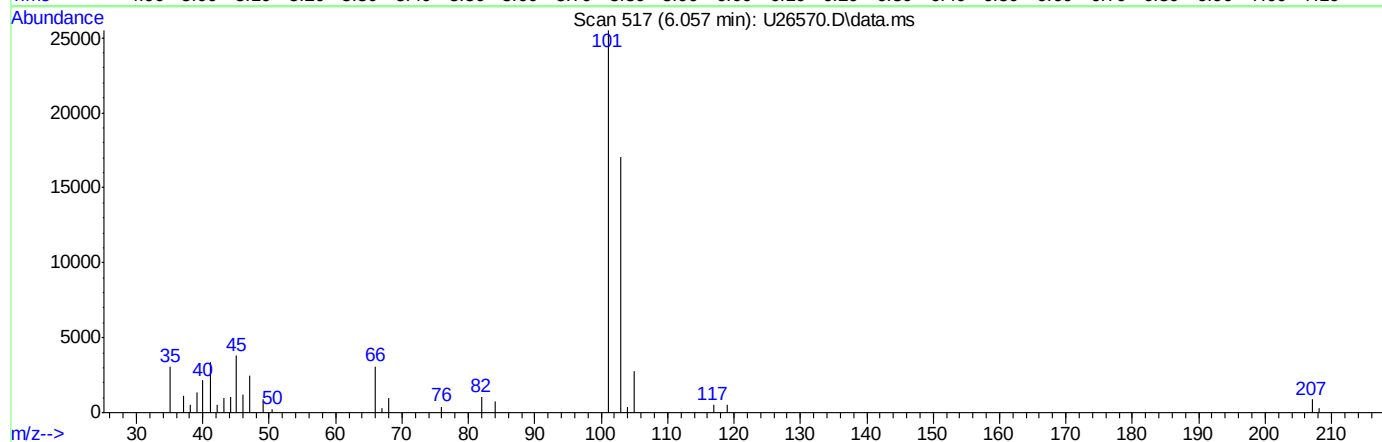
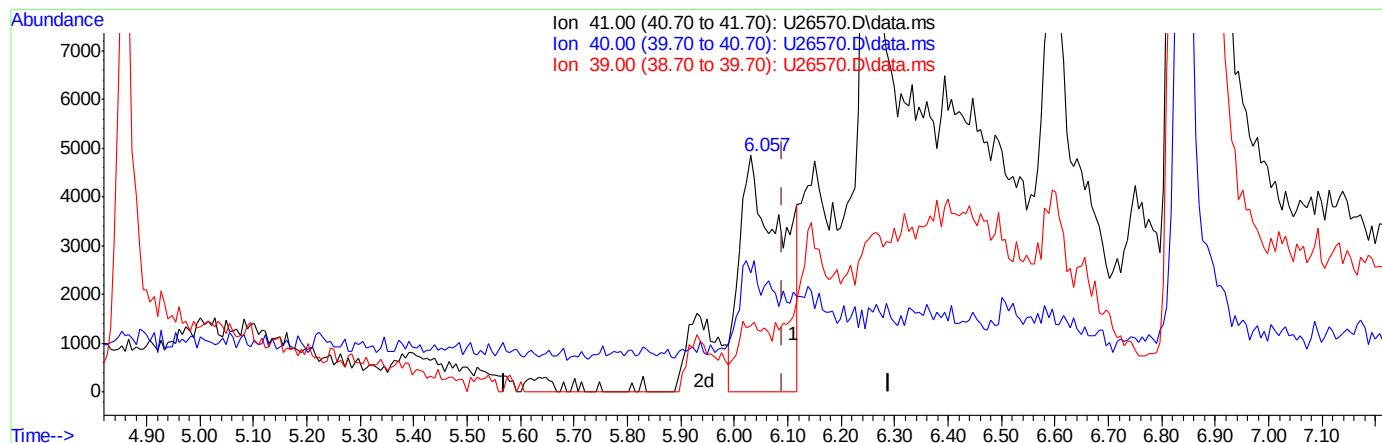
response 36476

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	41.48#
39.00	24.50	38.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(11) acetonitrile (P)

6.057min (-0.033) 41.54ppb m

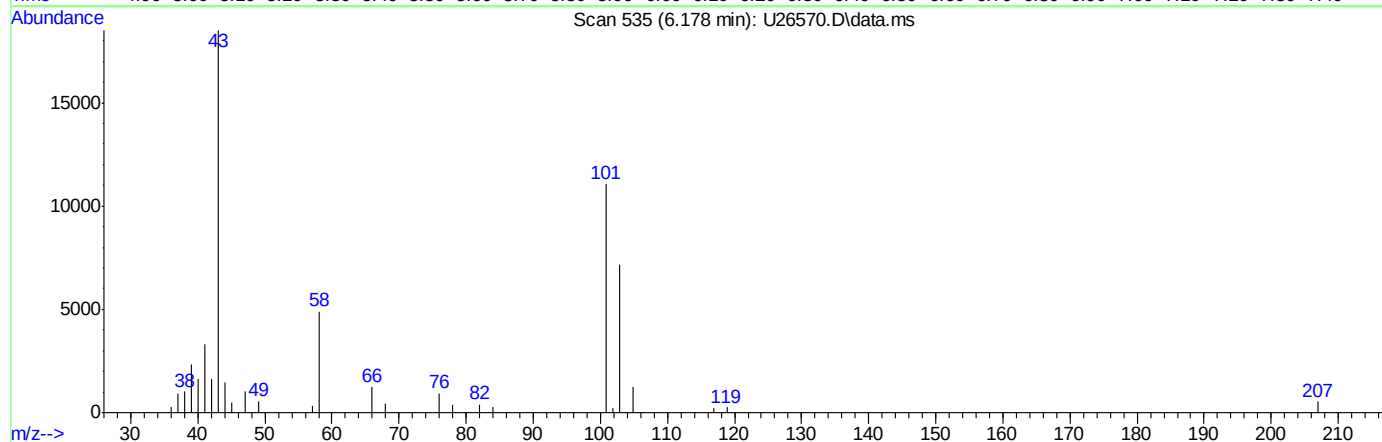
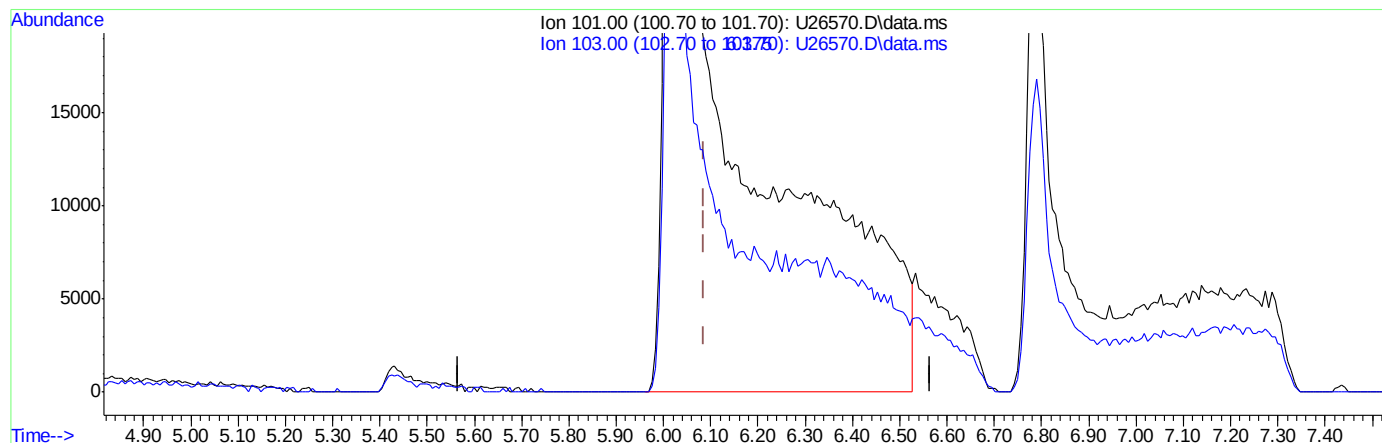
response 26243

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	63.95
39.00	24.50	39.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(12) trichlorofluoromethane (P)

6.175min (+0.089) 51.79ppb

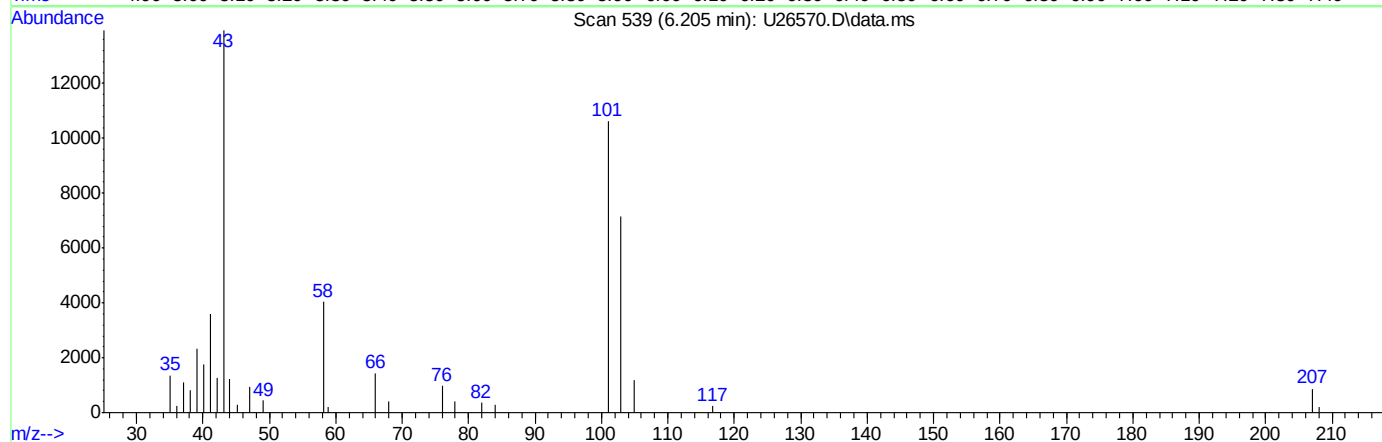
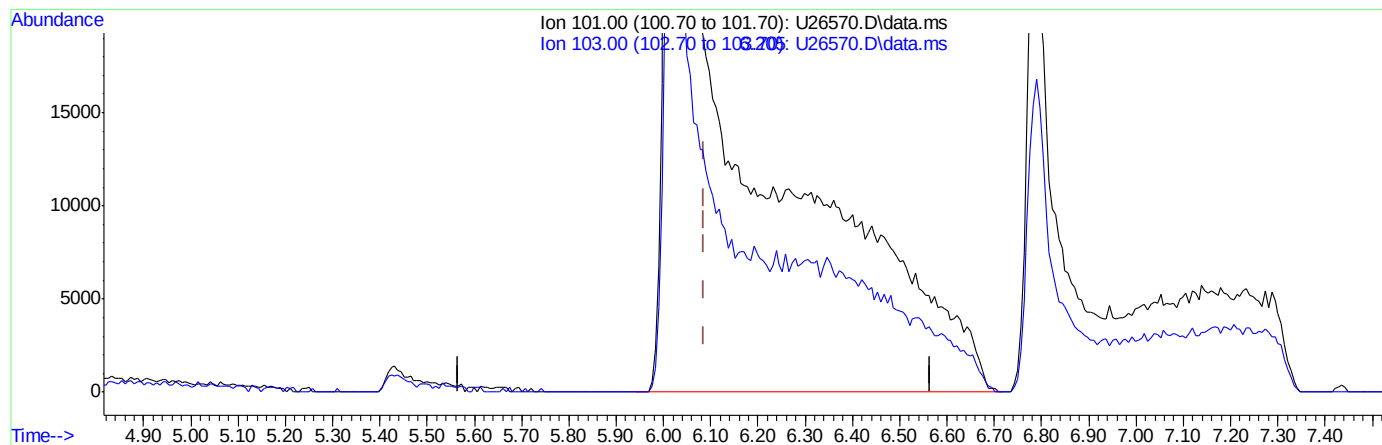
response 480220

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	64.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.205min (+0.119) 55.73ppb m

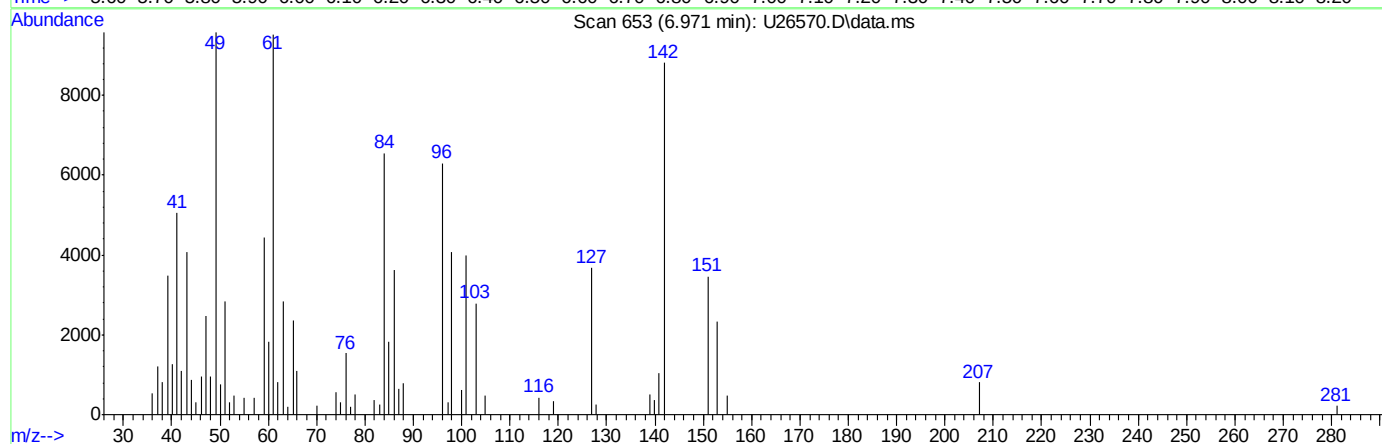
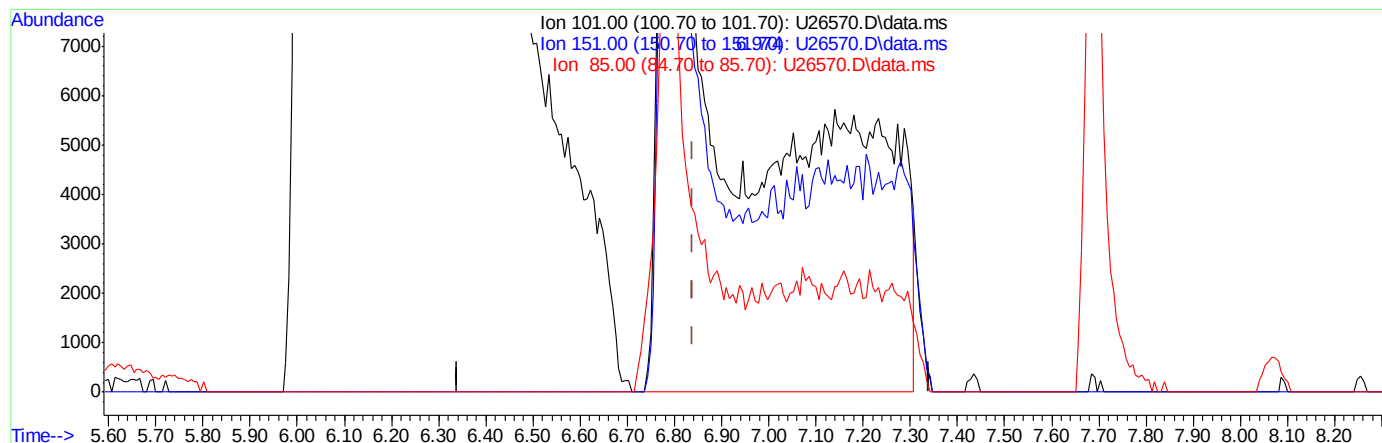
response 516701

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	67.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.974min (+0.134) 29.97ppb

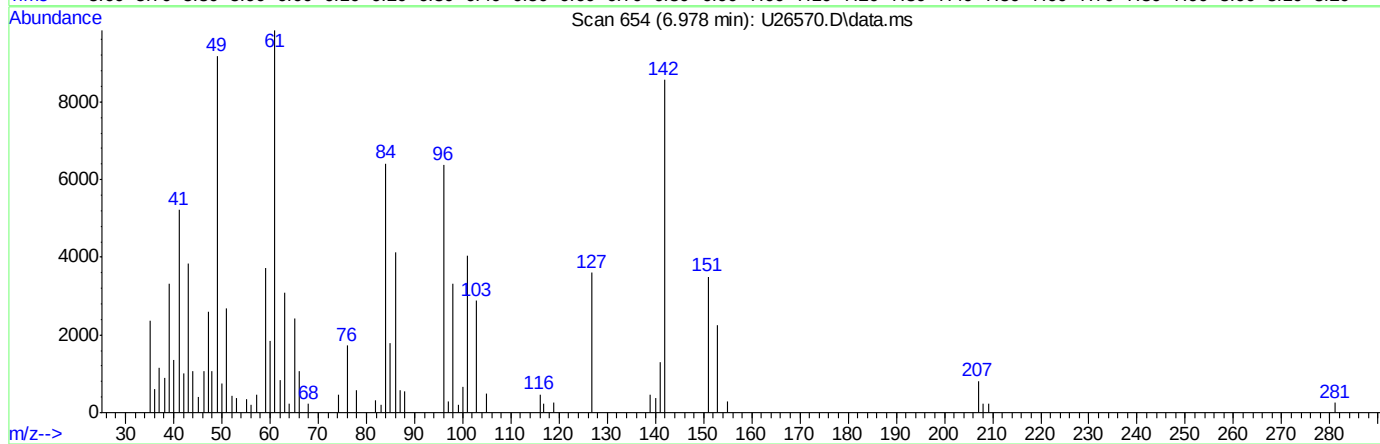
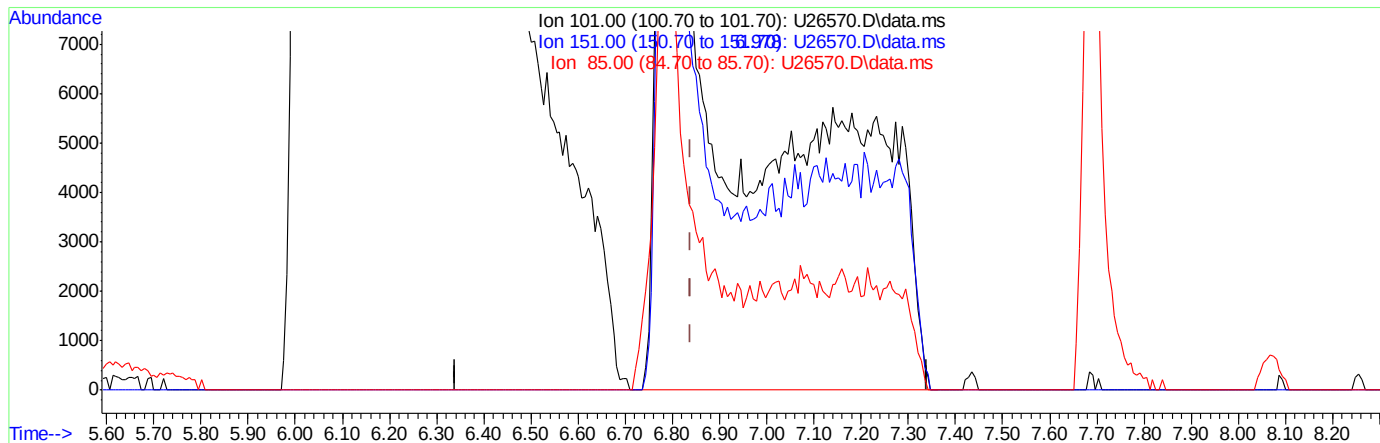
response 217484

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	86.99
85.00	45.00	25.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.978min (+0.138) 30.31ppb m

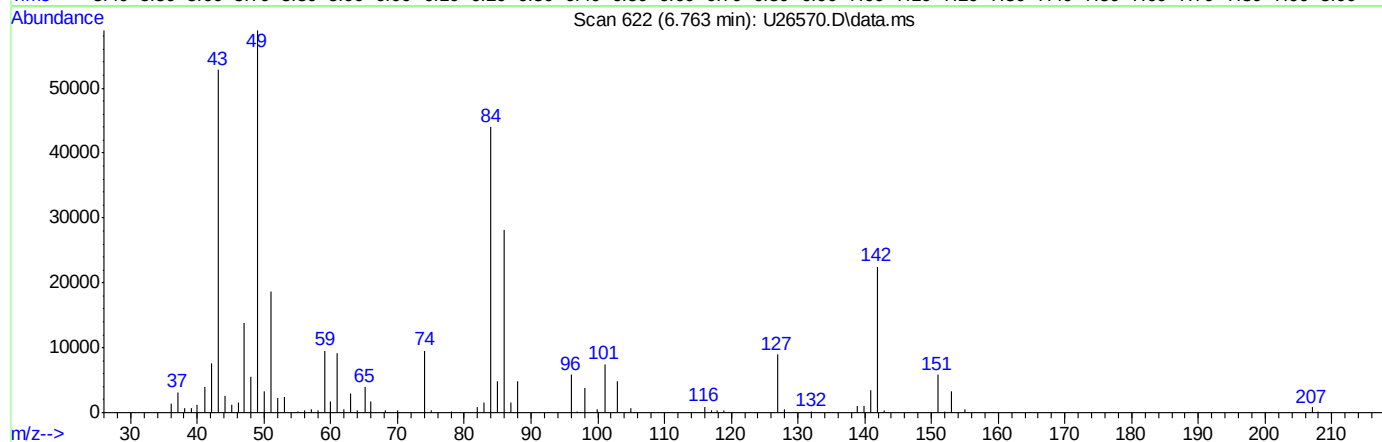
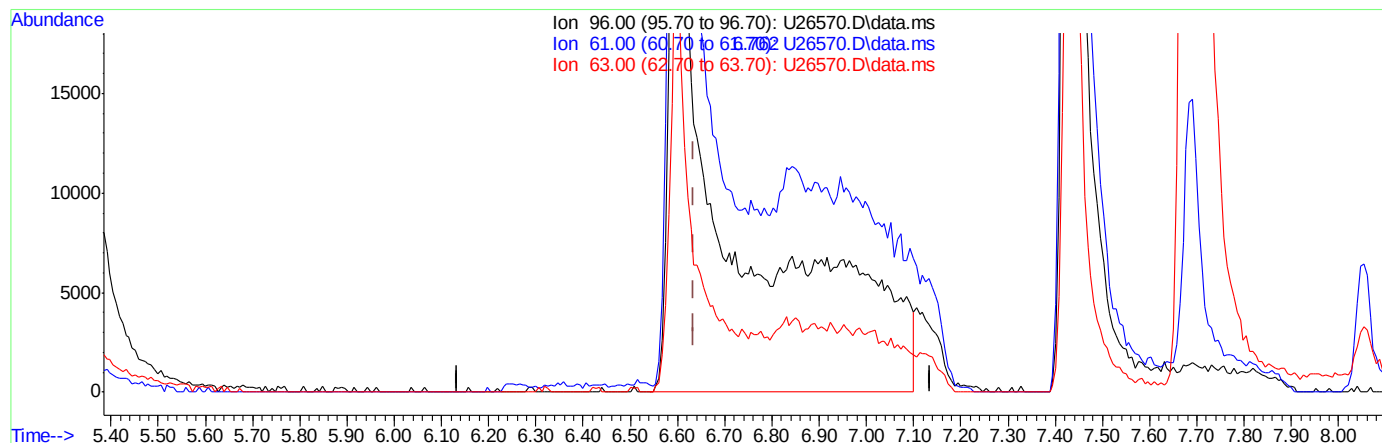
response 219936

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	86.26
85.00	45.00	44.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(15) 1,1-dichloroethene (P)

6.762min (+0.127) 42.52ppb

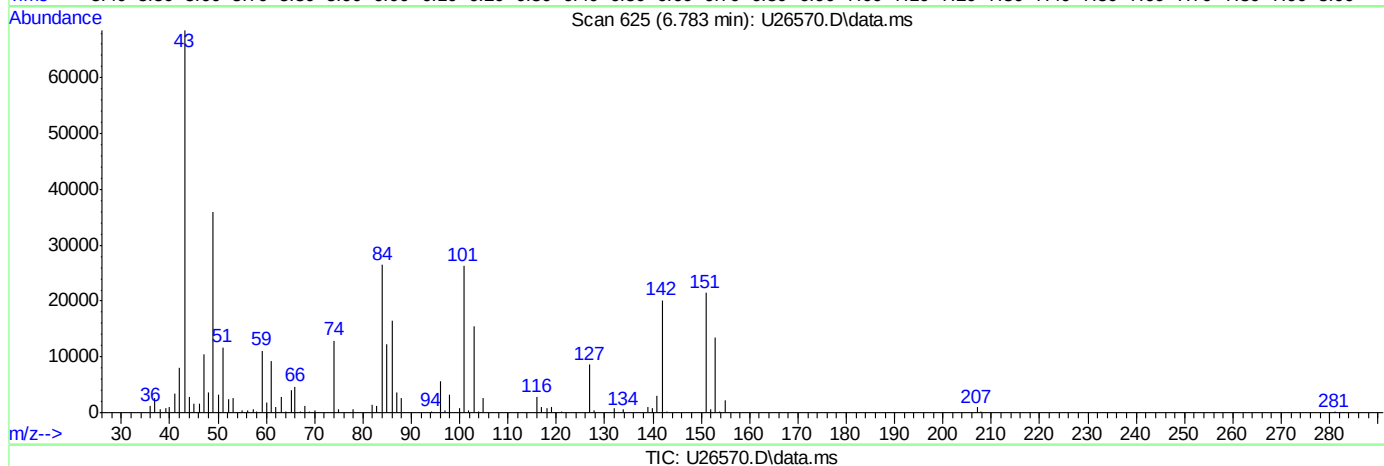
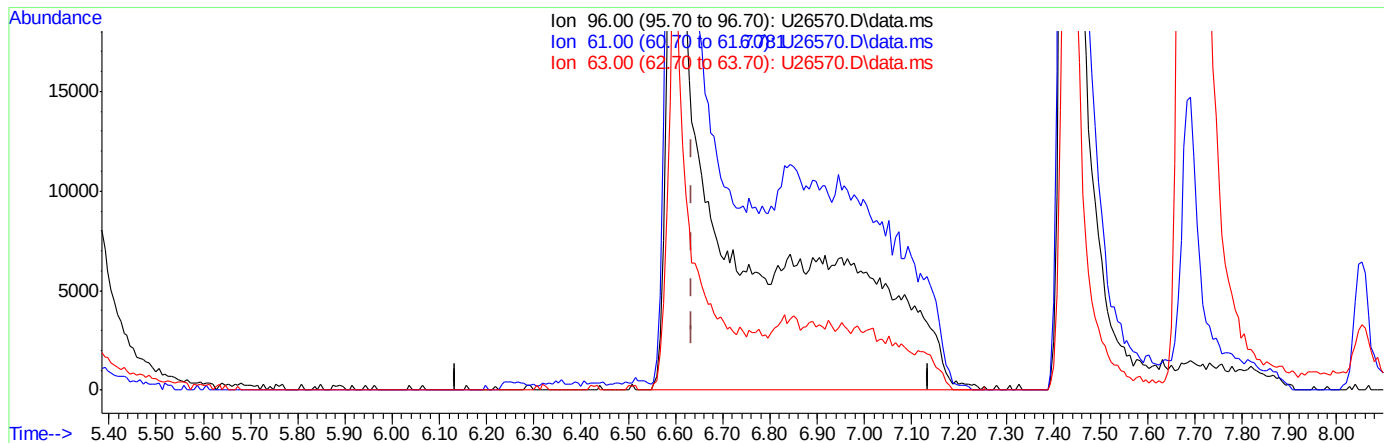
response 275038

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	150.69#
63.00	57.60	49.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.783min (+0.148) 44.77ppb m

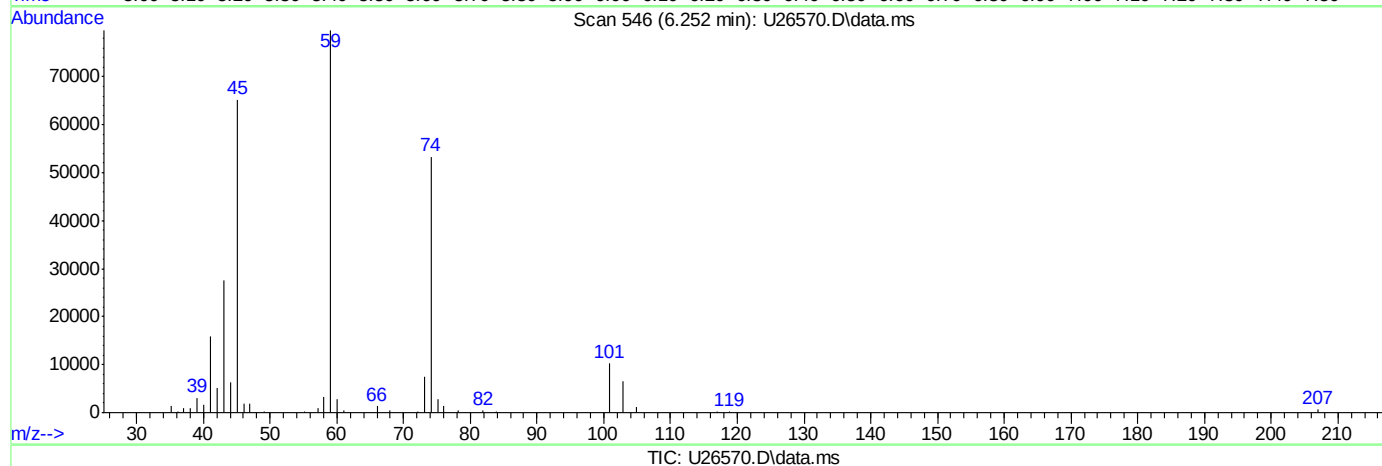
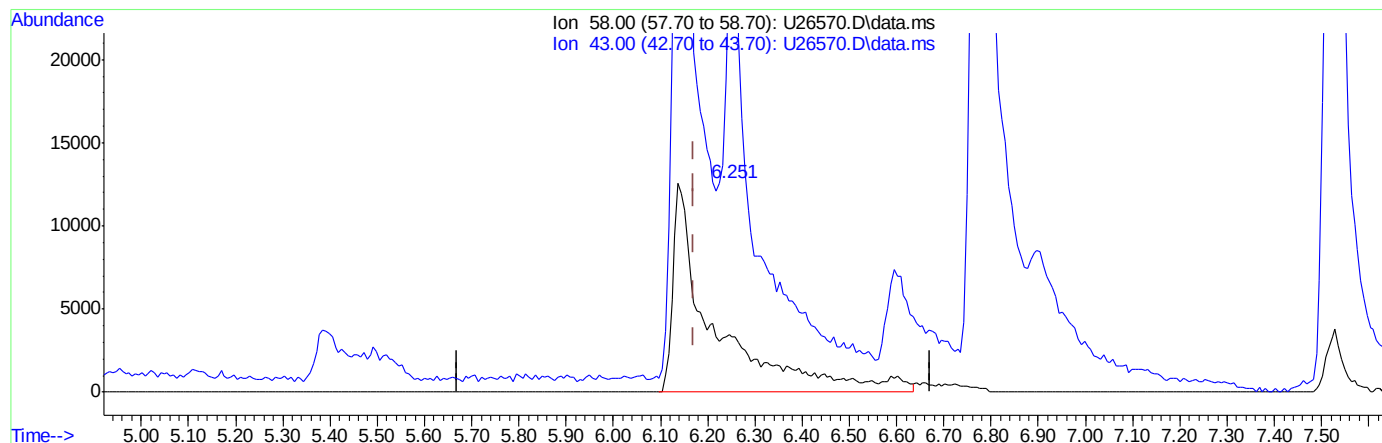
response 289600

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	161.42
63.00	57.60	47.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.251min (+0.080) 161.05ppb

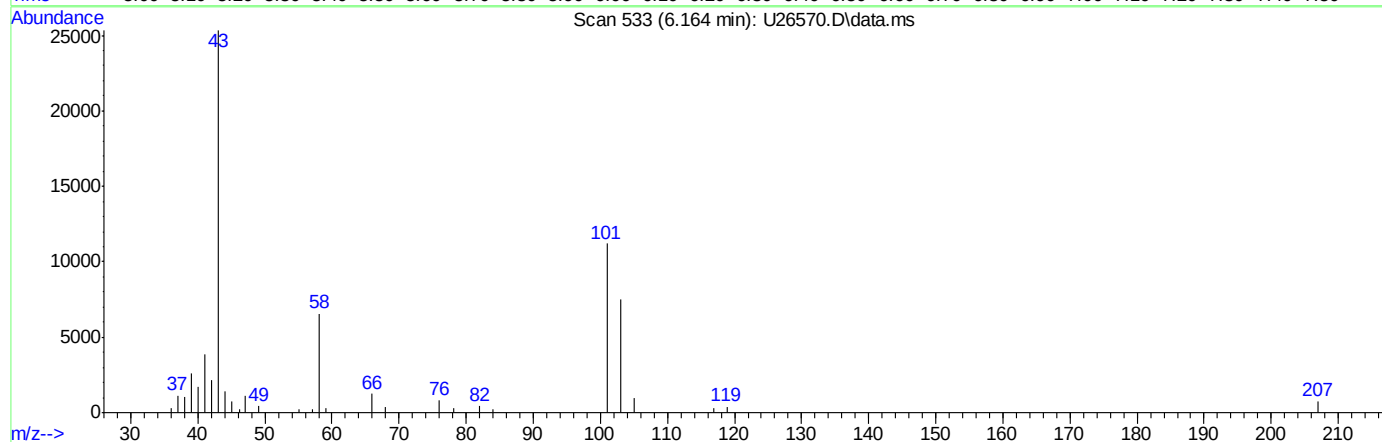
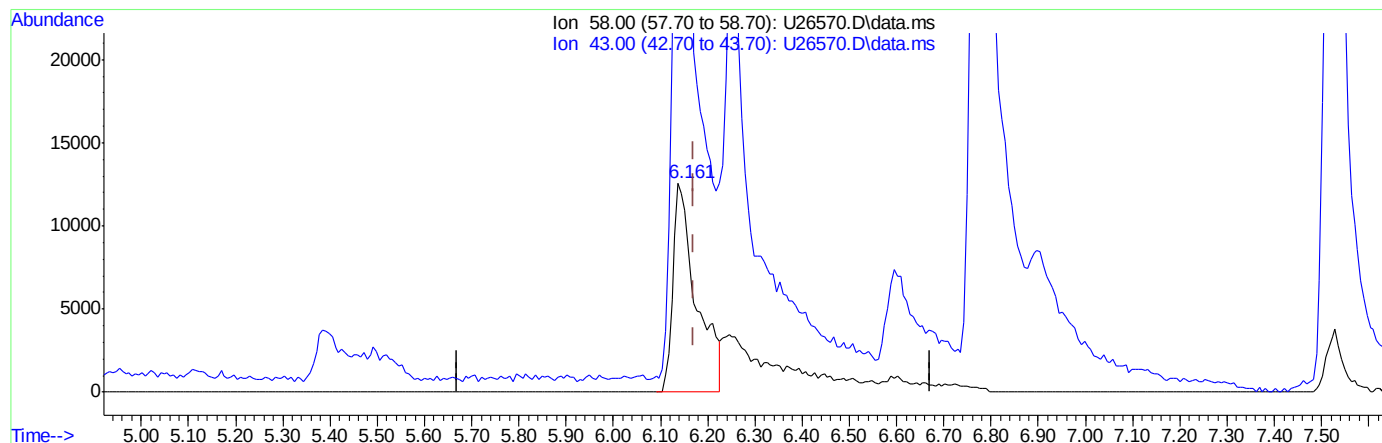
response 75774

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	799.04#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.164min (-0.007) 91.55ppb m

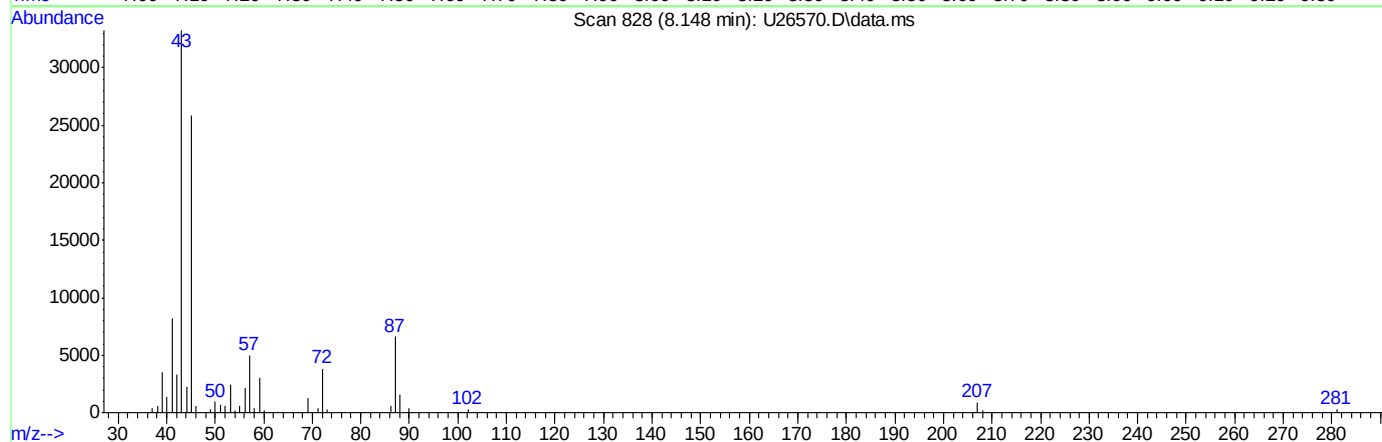
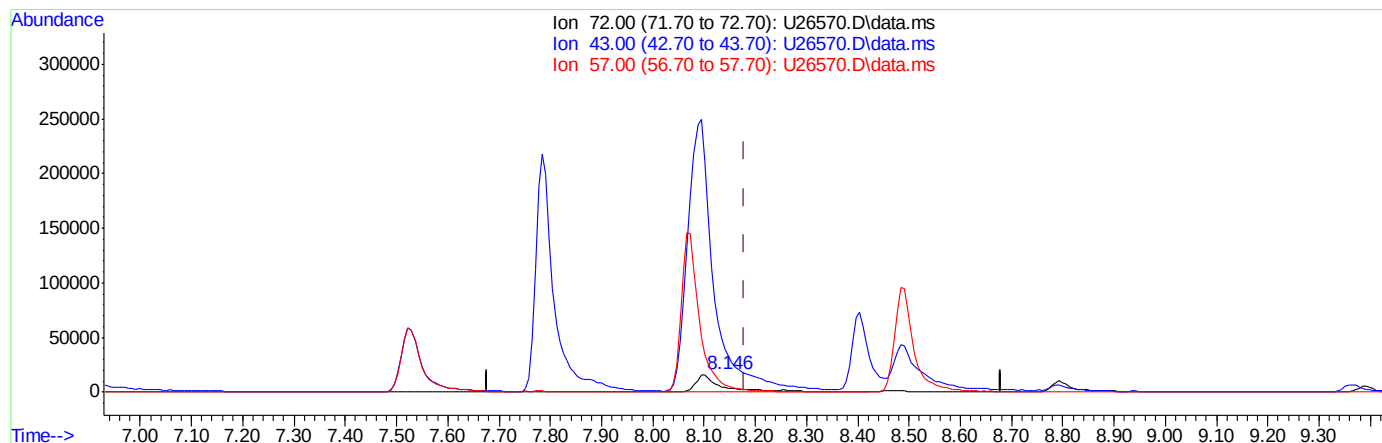
response 43073

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	386.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(30) 2-butanone (P)

8.146min (-0.033) 91.55ppb

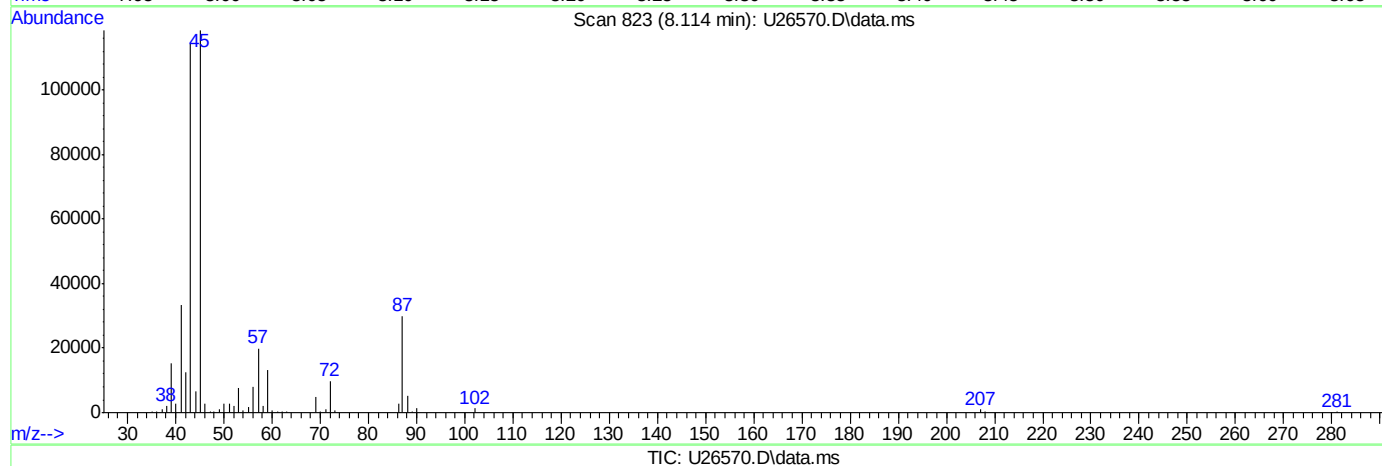
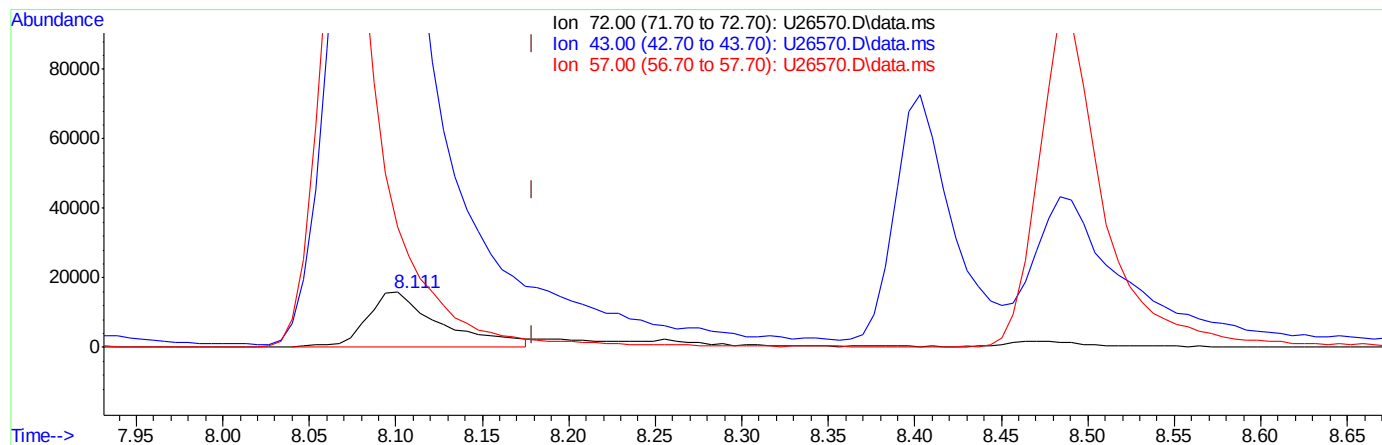
response 63327

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(30) 2-butanone (P)

8.114min (-0.065) 68.30ppb m

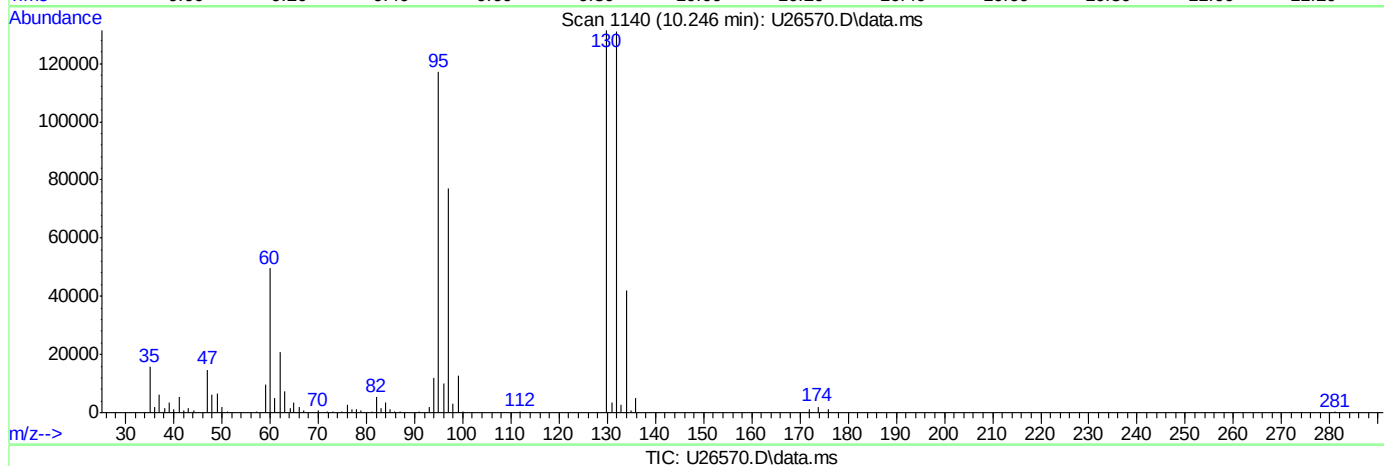
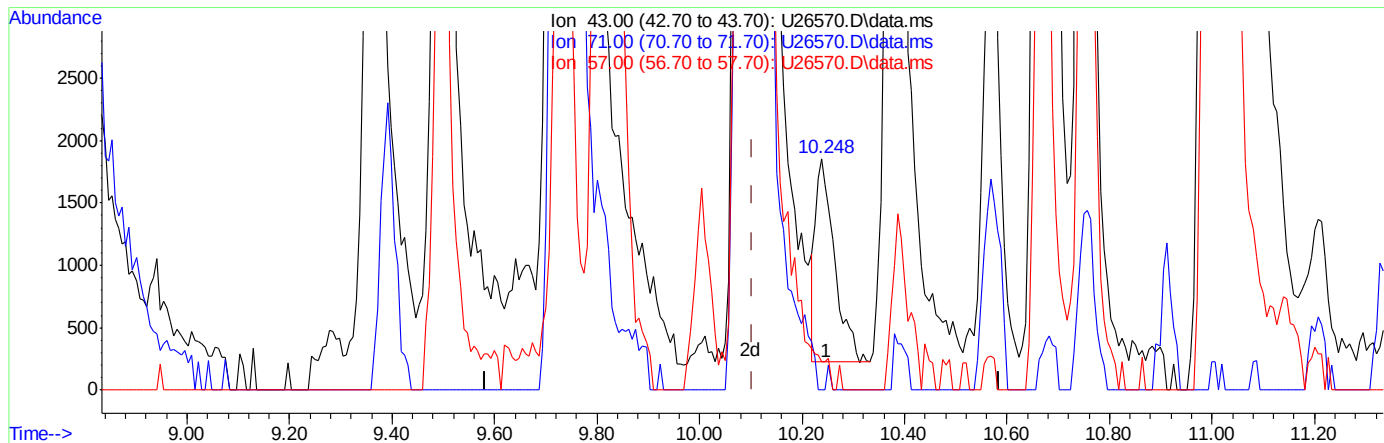
response 47243

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(50) heptane (P)

10.248min (+0.144) 0.71ppb

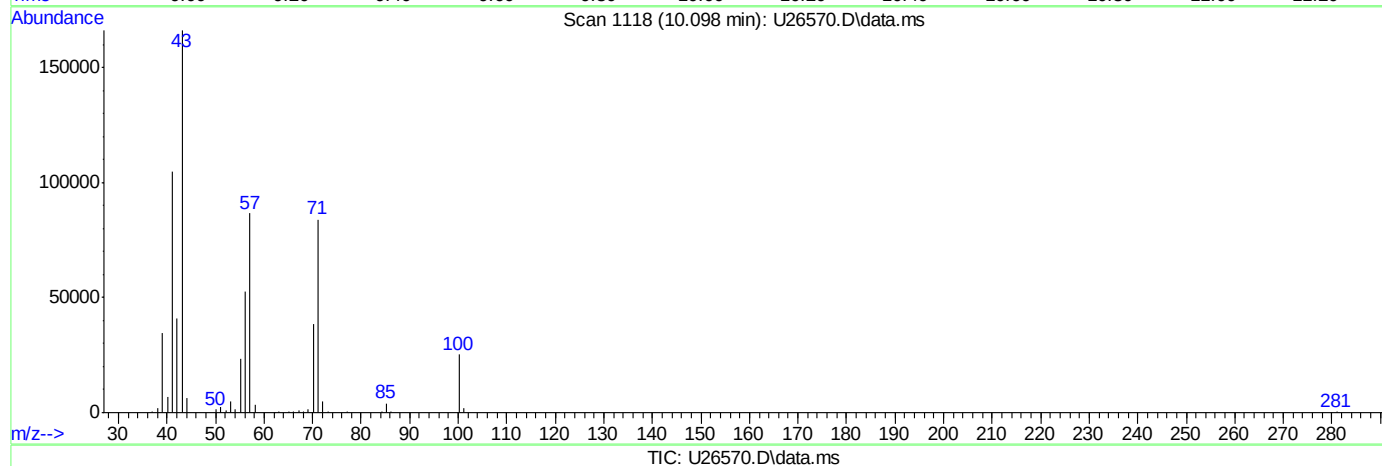
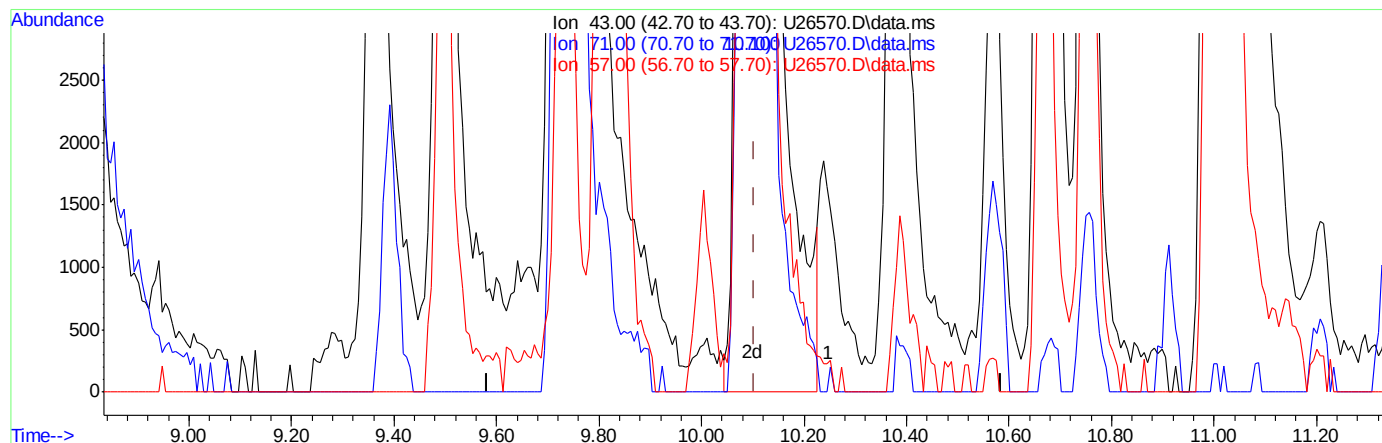
response 4146

Ion	Exp%	Act%
43.00	100	100
71.00	26.10	0.00
57.00	5.80	15.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(50) heptane (P)

10.098min (-0.006) 59.71ppb m

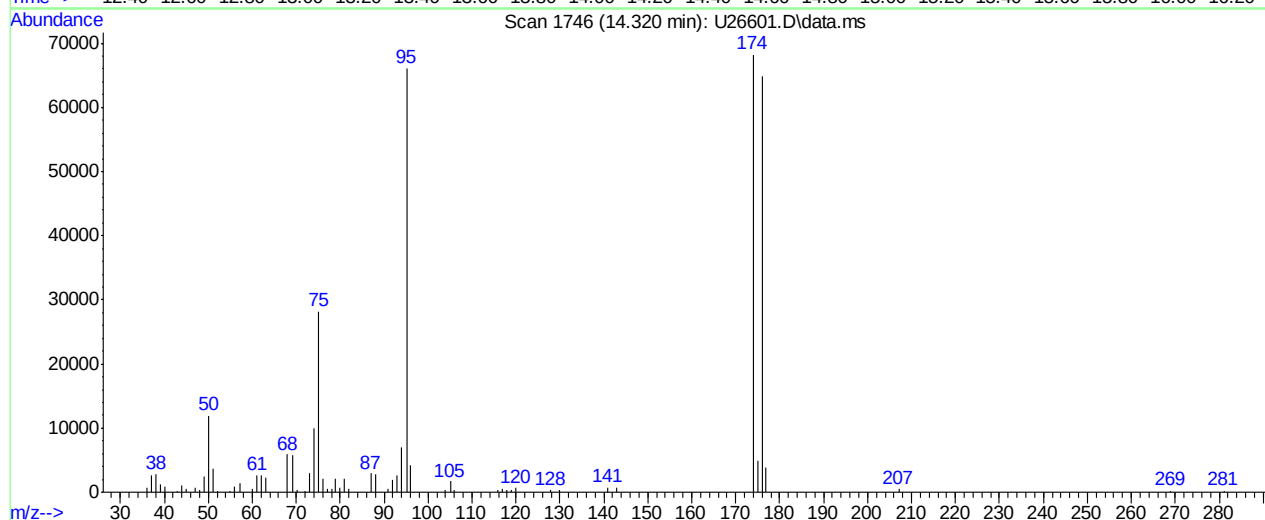
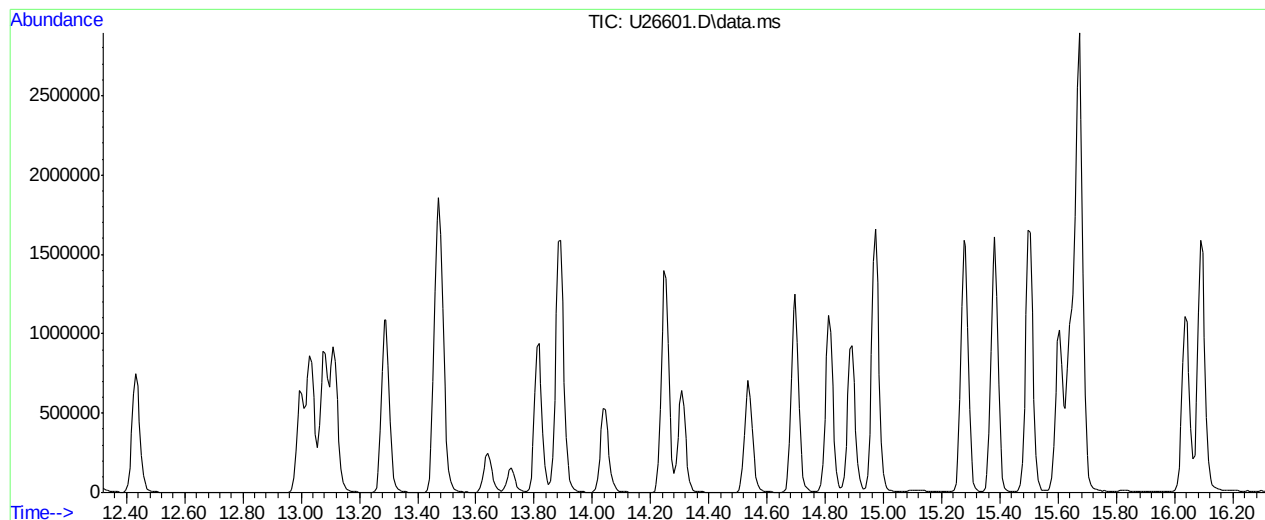
response 347791

Ion	Exp%	Act%
43.00	100	100
71.00	26.10	50.54
57.00	5.80	52.12#
0.00	0.00	0.00

SW-846 Method 8260

Data File : D:\msdchem\1\data\U150310\U26601.D Vial: 3
Acq On : 10 Mar 2015 9:56 am Operator: GaryK
Sample : bfb Inst : MSU
Misc : ms33945,msu1117,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U150219w.m (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Scan 1746

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	11949	PASS
75	95	30	60	42.6	28160	PASS
95	95	100	100	100.0	66168	PASS
96	95	5	9	6.3	4168	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	103.2	68264	PASS
175	174	5	9	7.1	4873	PASS
176	174	95	101	95.0	64872	PASS
177	176	5	9	6.0	3913	PASS

Scan 1746 (14.320 min): U26601.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	701	50.10	11949	69.10	5742	80.90	2141
37.10	2574	51.10	3663	70.10	391	82.00	447
38.10	2839	52.10	266	72.10	217	87.00	2930
39.10	1297	54.90	225	73.00	2933	88.00	2718
40.00	828	56.00	953	74.00	9937	91.00	522
43.00	204	57.10	1481	75.10	28160	92.00	1984
44.00	989	60.00	476	76.10	2166	93.00	2679
45.00	558	61.10	2669	77.00	586	94.00	7068
47.10	638	62.10	2571	78.10	456	95.10	66168
48.00	396	63.10	2212	78.90	2067	96.00	4168
49.10	2374	68.00	5885	79.90	631	104.00	408

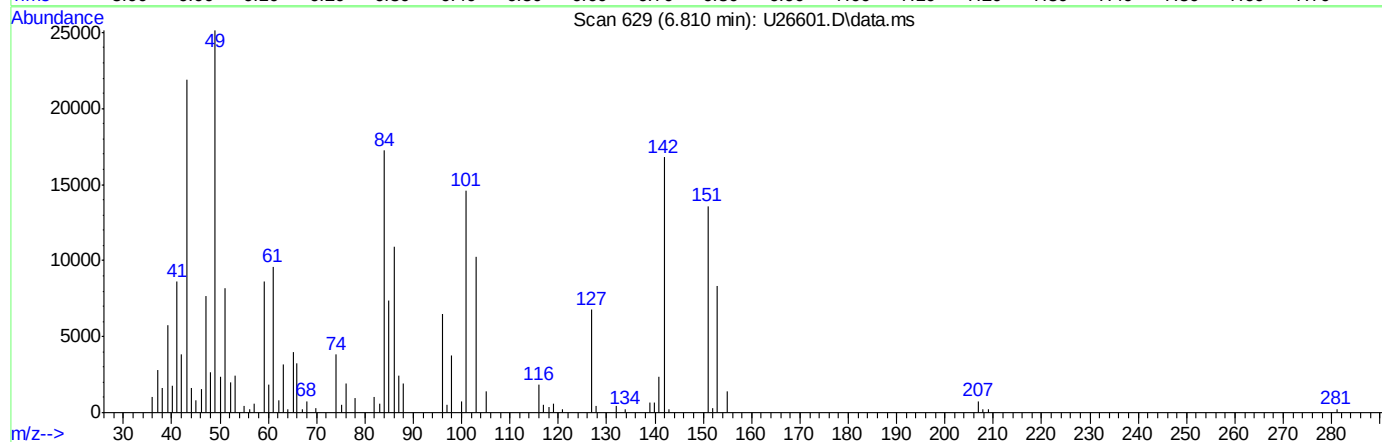
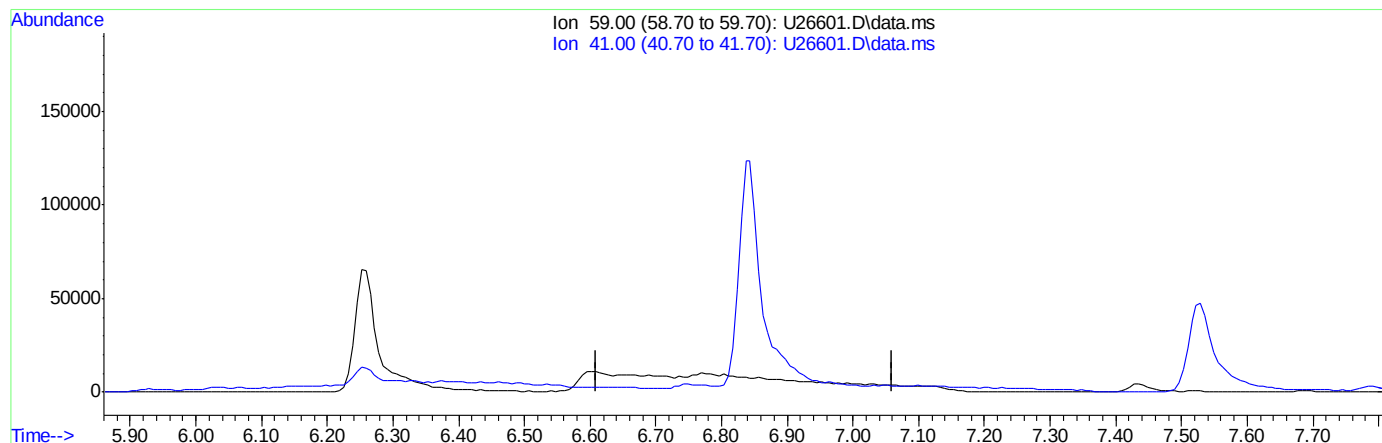
Scan 1746 (14.320 min): U26601.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.10	1719	174.00	68264				
106.00	441	175.00	4873				
115.90	270	176.00	64872				
117.00	507	176.90	3913				
118.00	273	207.10	497				
119.00	398	269.00	217				
120.00	649	281.10	202				
127.90	299						
129.90	292						
140.90	764						
142.90	630						

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.810min (-6.810) 0.00ppb

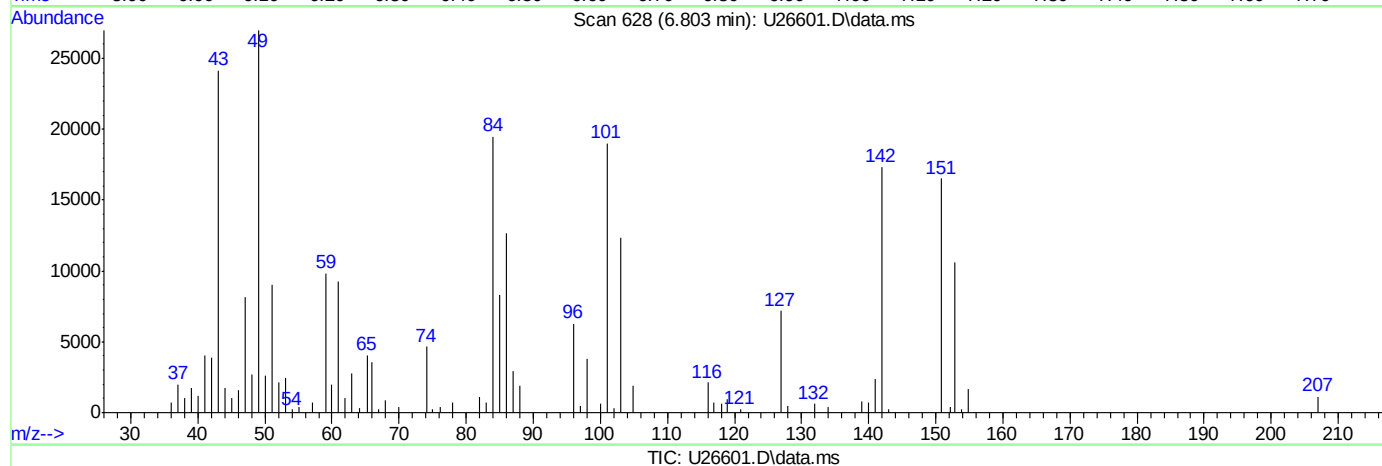
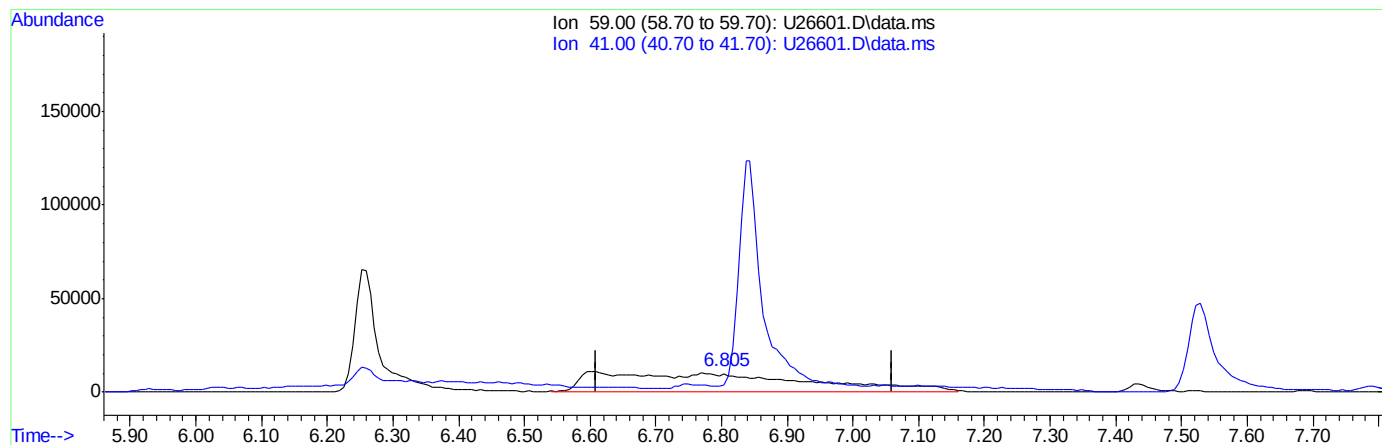
response 0

Ion	Exp%	Act%
59.00	100	0.00
41.00	23.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.803min (-0.007) 502.91ppb m

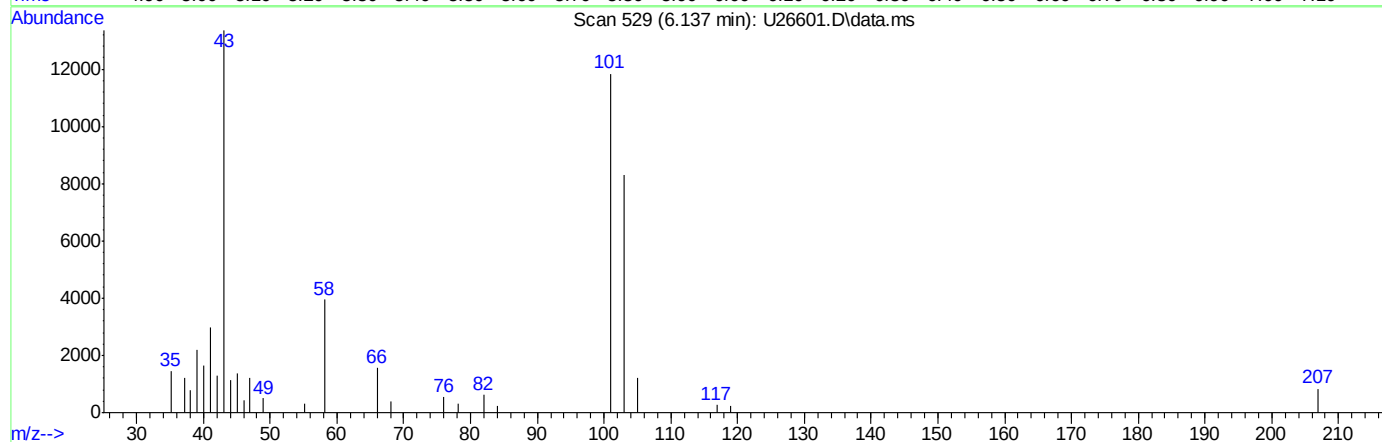
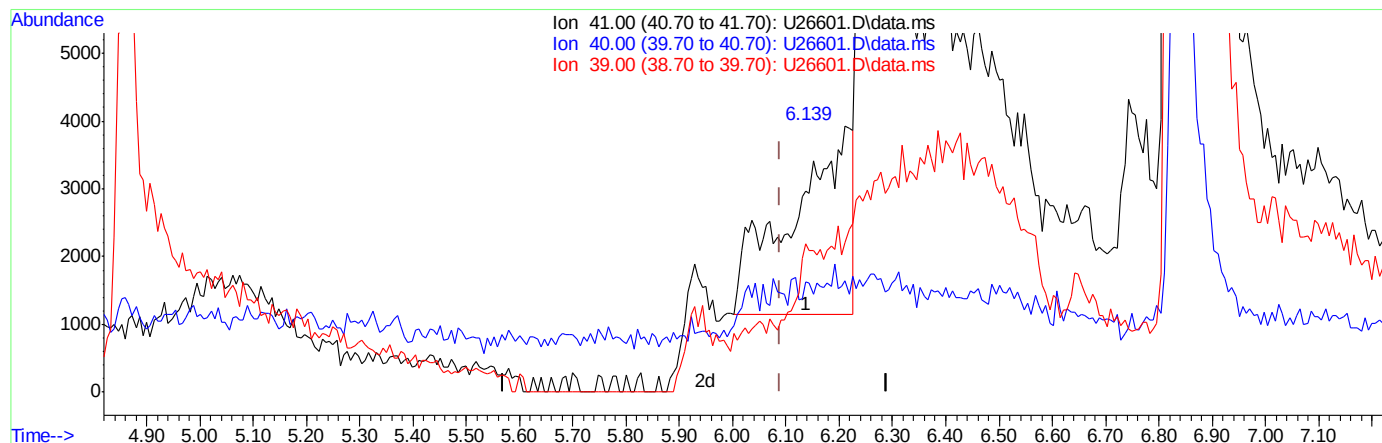
response 232841

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	41.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(11) acetonitrile (P)

6.139min (+0.049) 36.37ppb

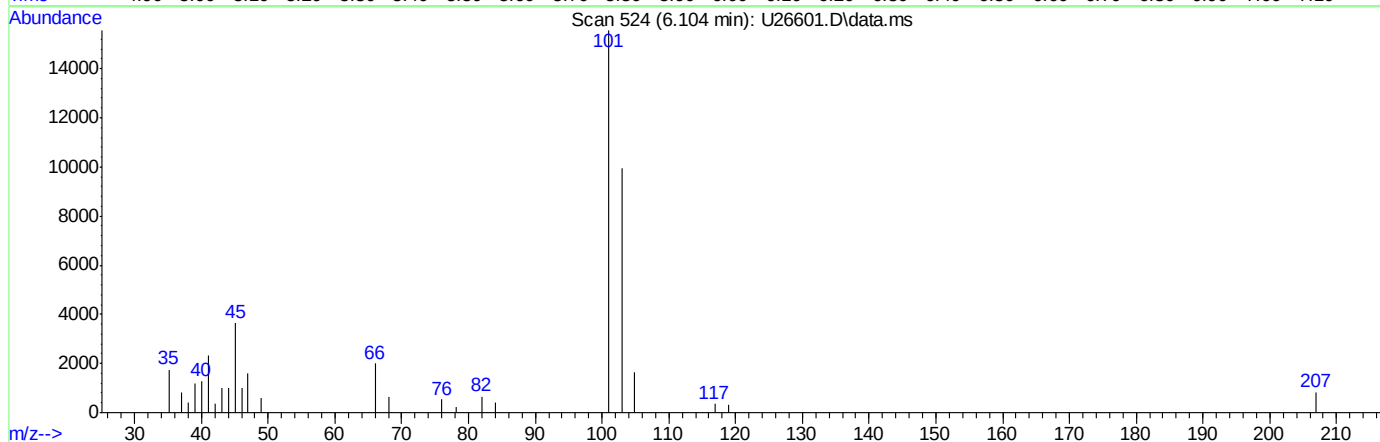
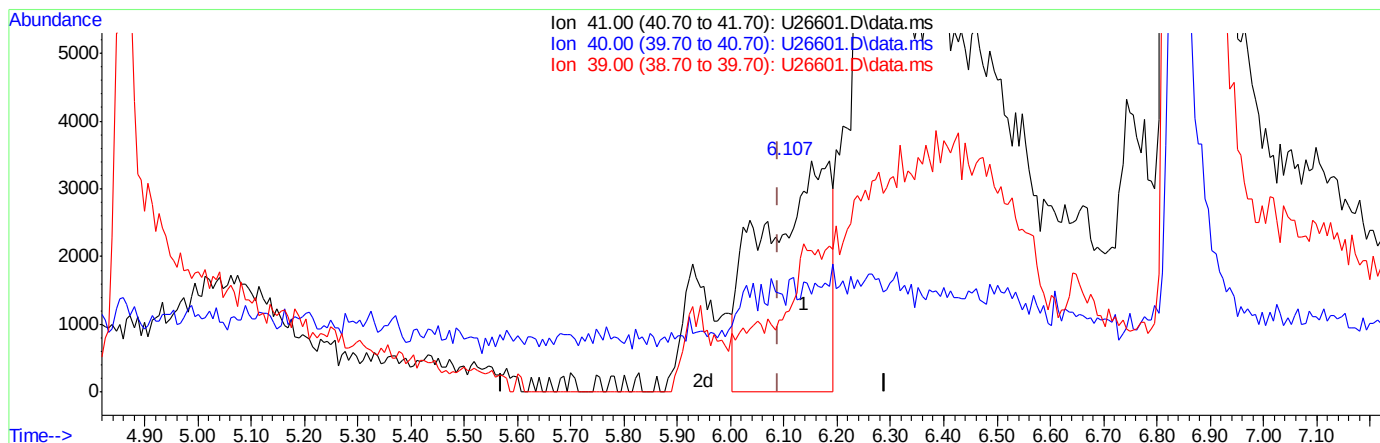
response 21705

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	34.87#
39.00	24.50	72.47#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(11) acetonitrile (P)

6.104min (+0.014) 50.57ppb m

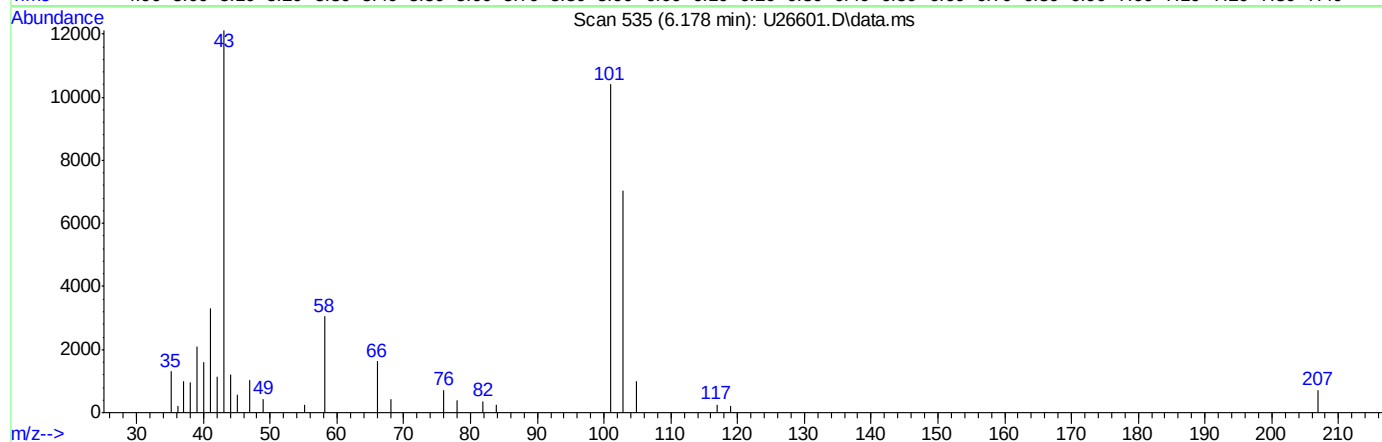
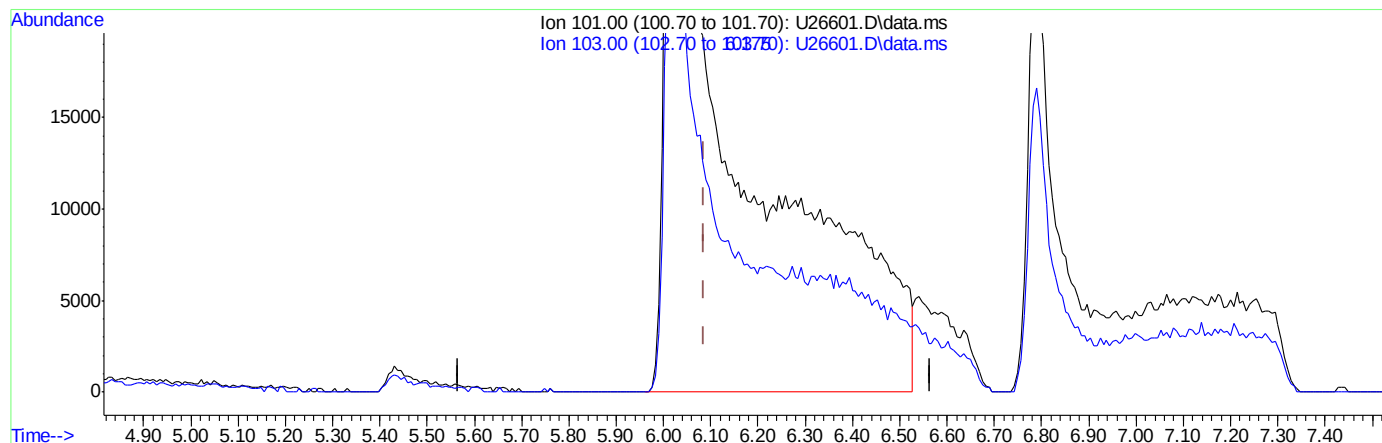
response 29378

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	54.90#
39.00	24.50	50.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.175min (+0.089) 51.71ppb

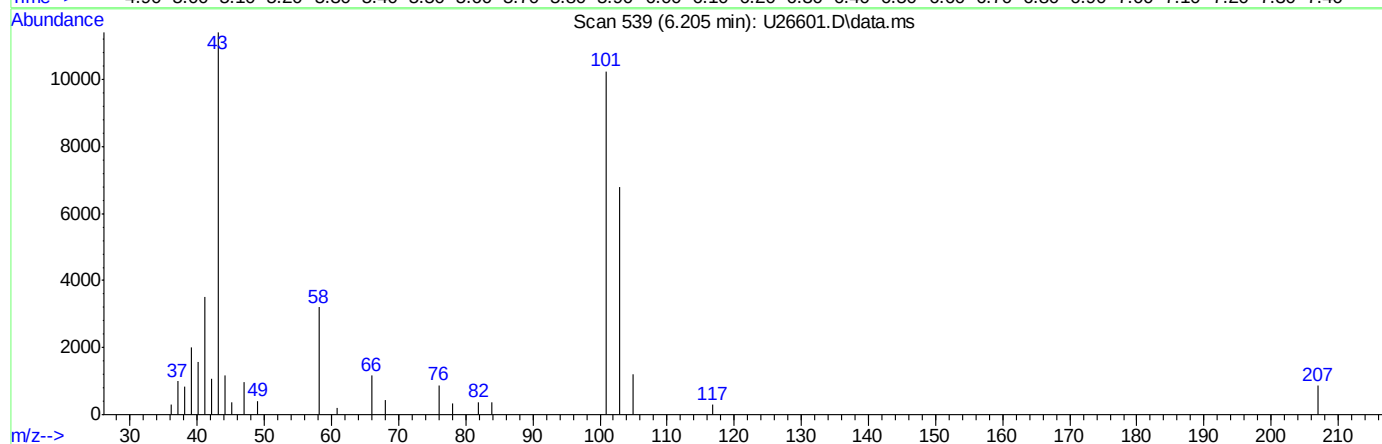
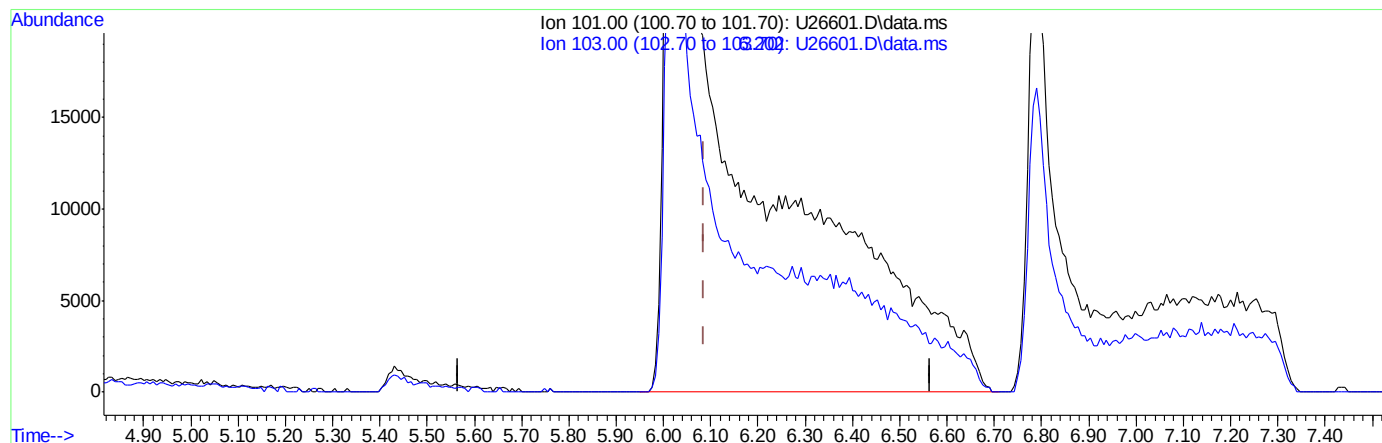
response 448546

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	67.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.205min (+0.119) 55.34ppb m

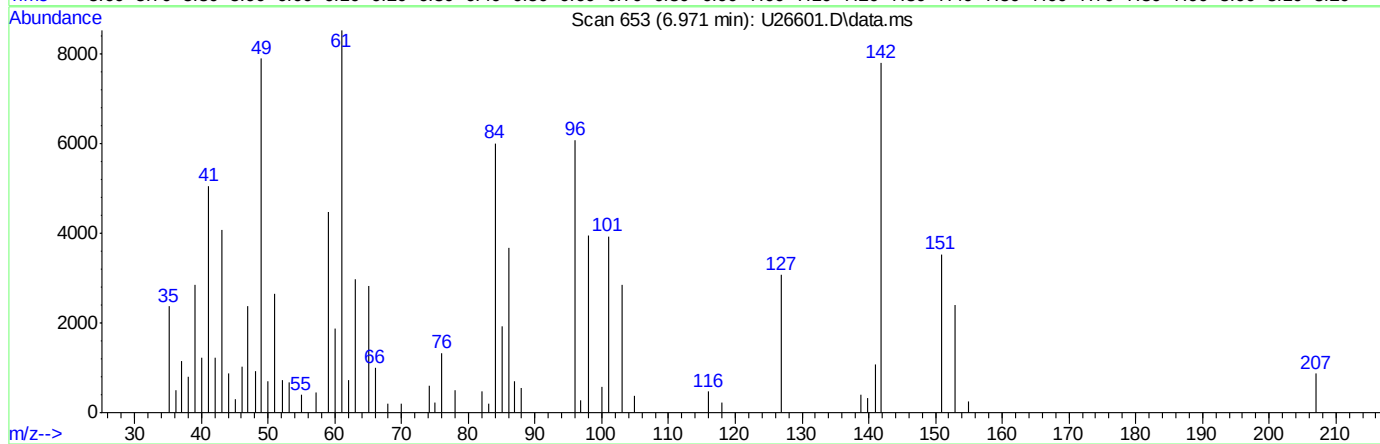
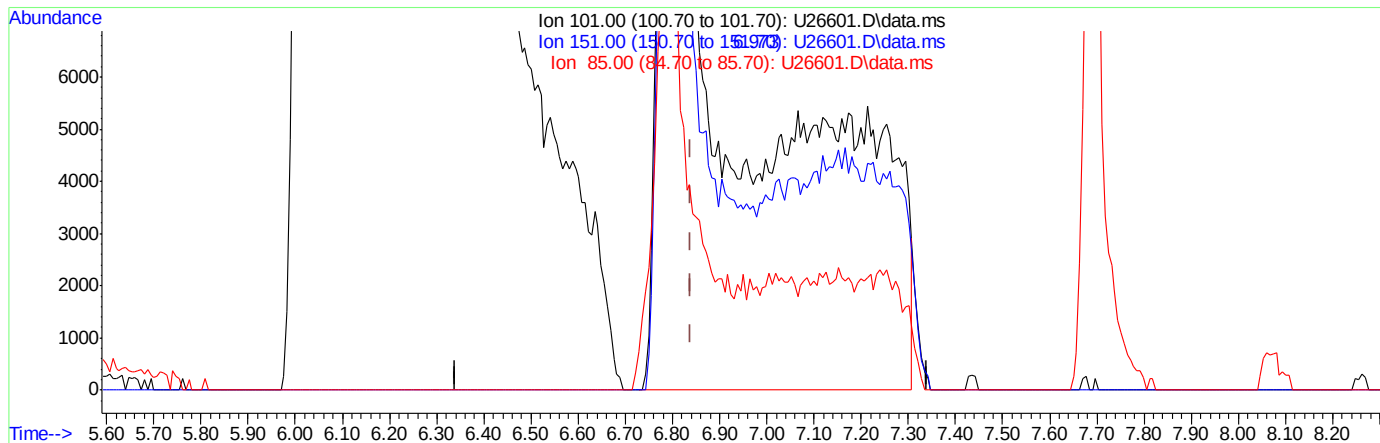
response 480049

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	66.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(13) freon-113 (P)

6.973min (+0.133) 30.88ppb

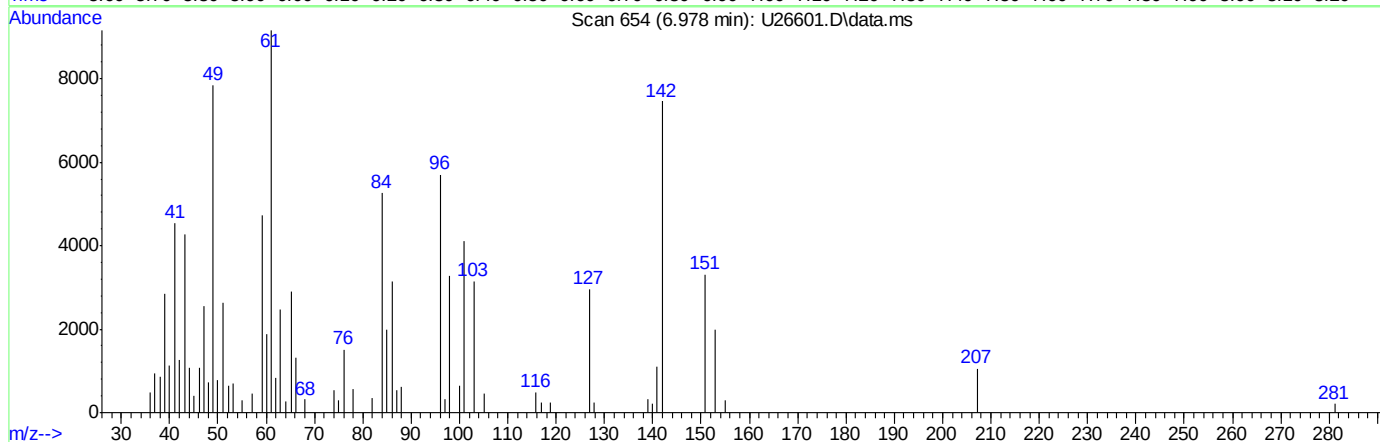
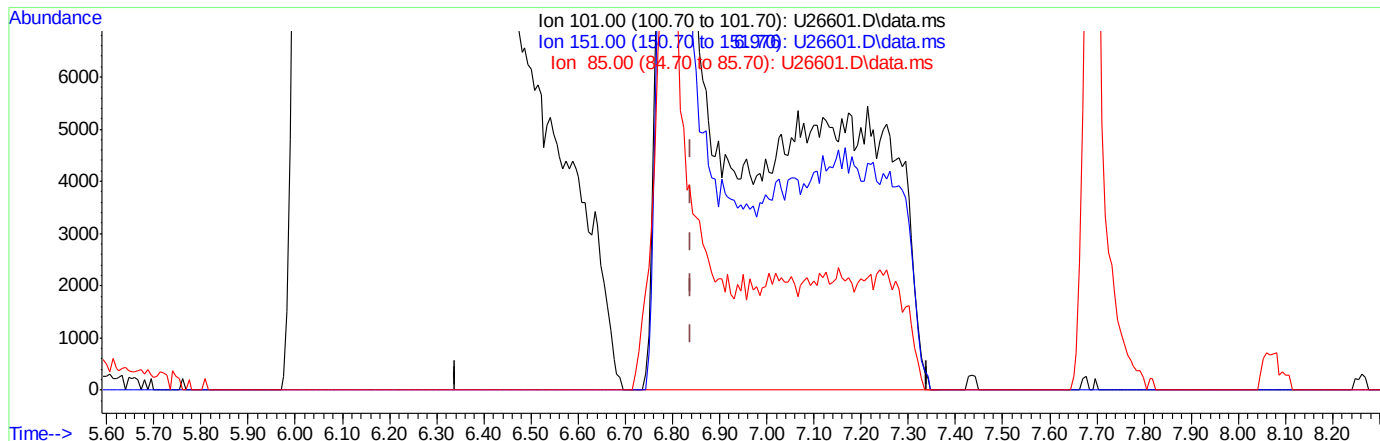
response 209659

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	89.63
85.00	45.00	29.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(13) freon-113 (P)

6.978min (+0.138) 31.14ppb m

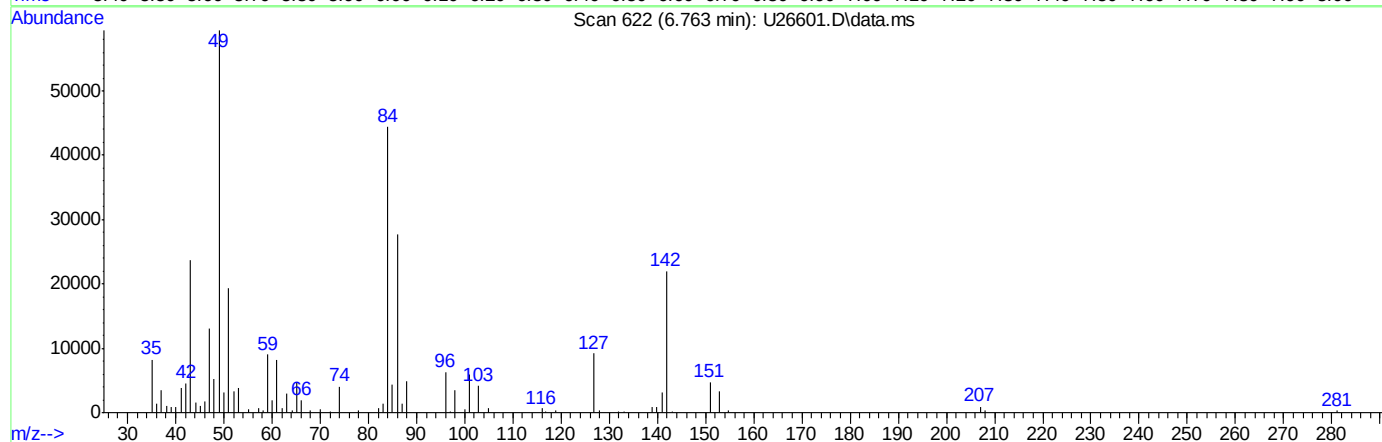
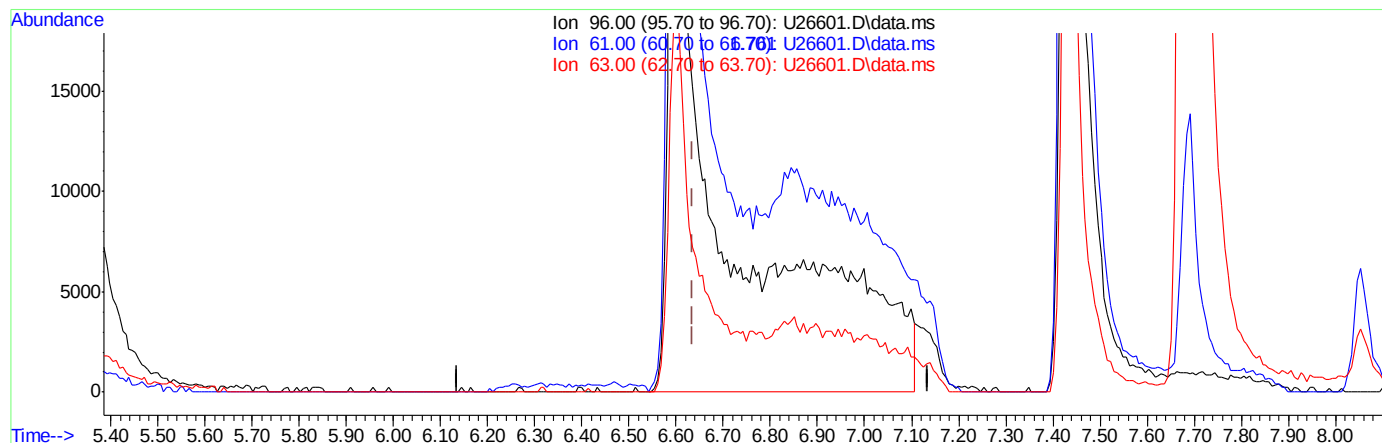
response 211427

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	80.46
85.00	45.00	48.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(15) 1,1-dichloroethene (P)

6.761min (+0.126) 44.31ppb

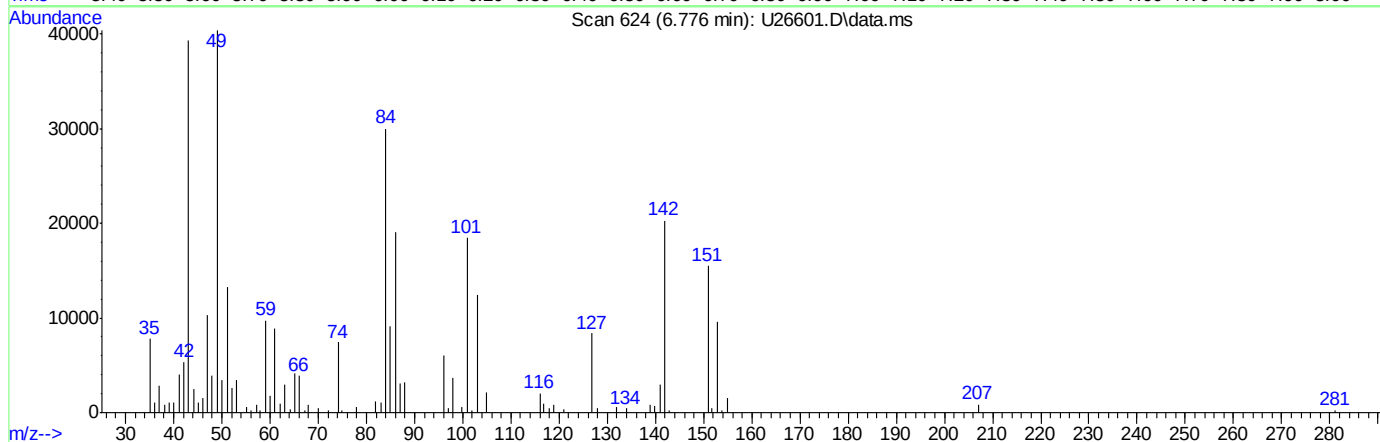
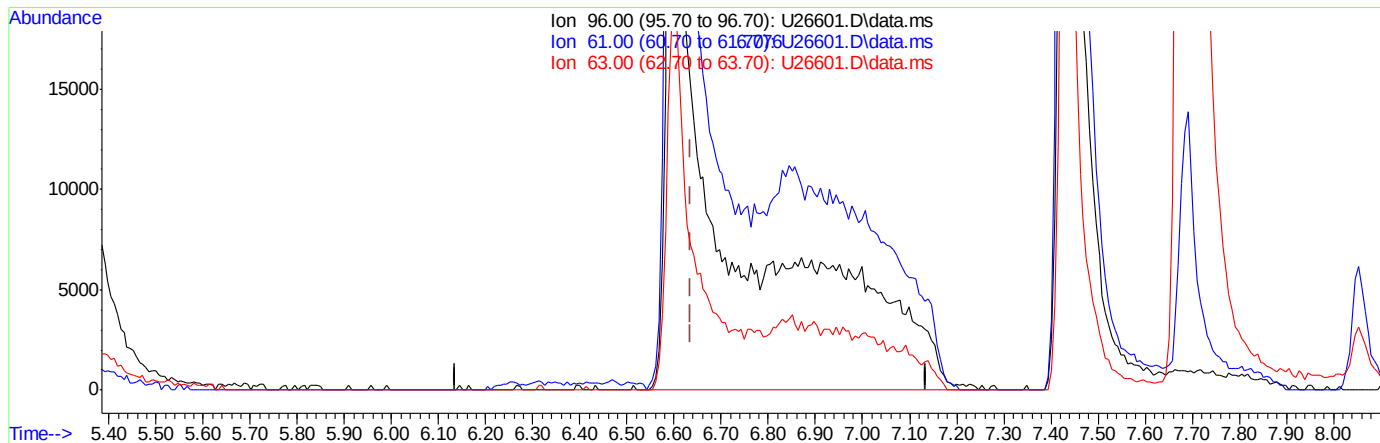
response 268147

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	128.21#
63.00	57.60	47.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.776min (+0.141) 46.10ppb m

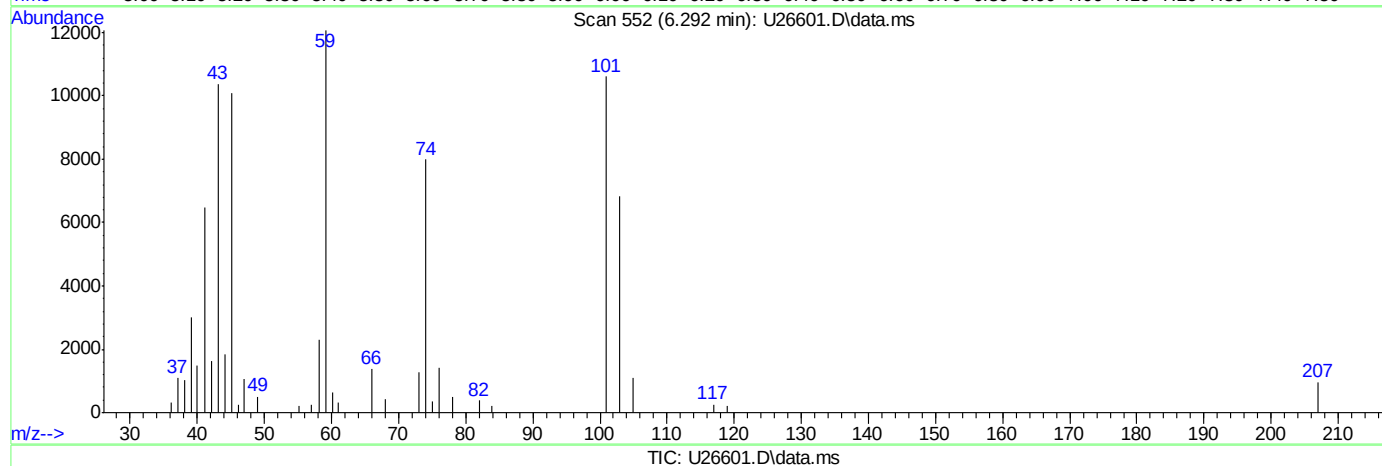
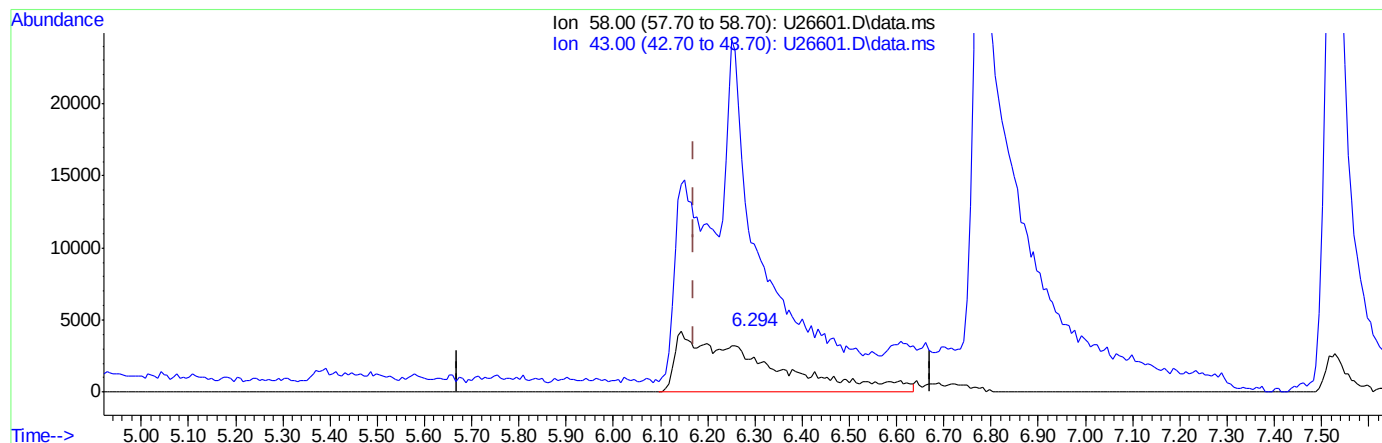
response 278969

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	146.71#
63.00	57.60	49.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.294min (+0.123) 123.21ppb

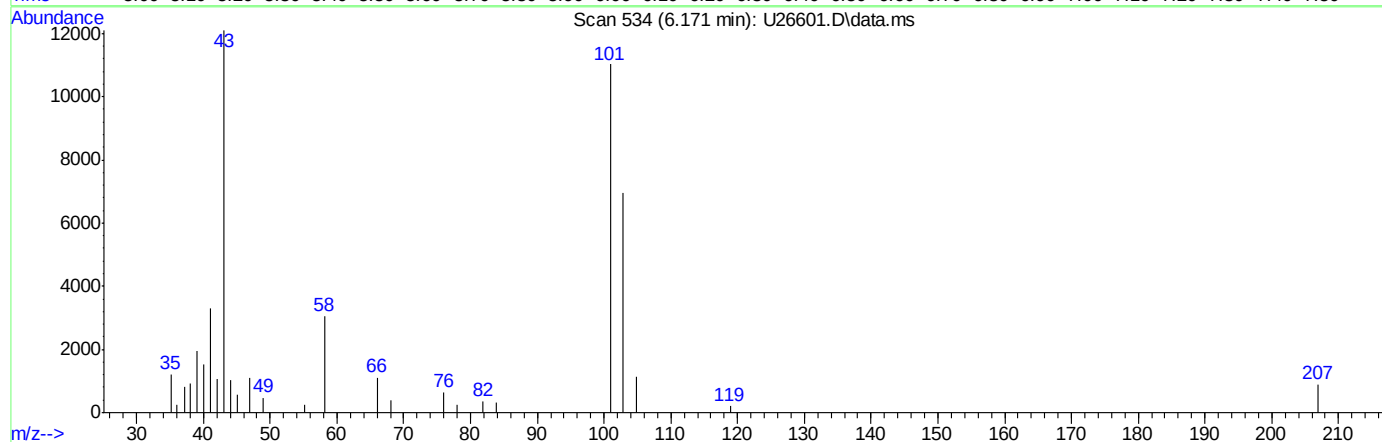
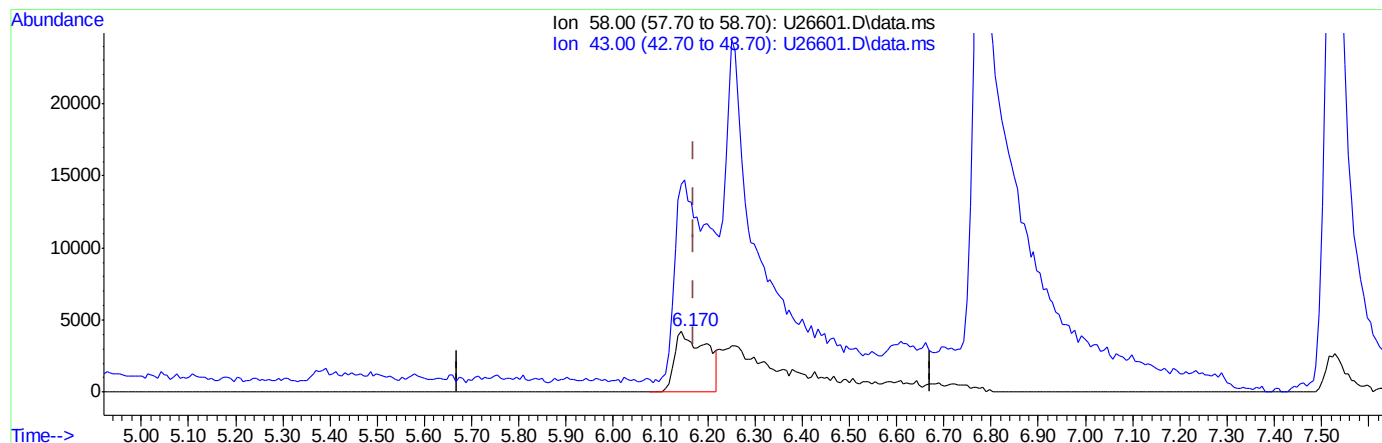
response 54236

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	415.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.171min (+0.000) 44.89ppb m

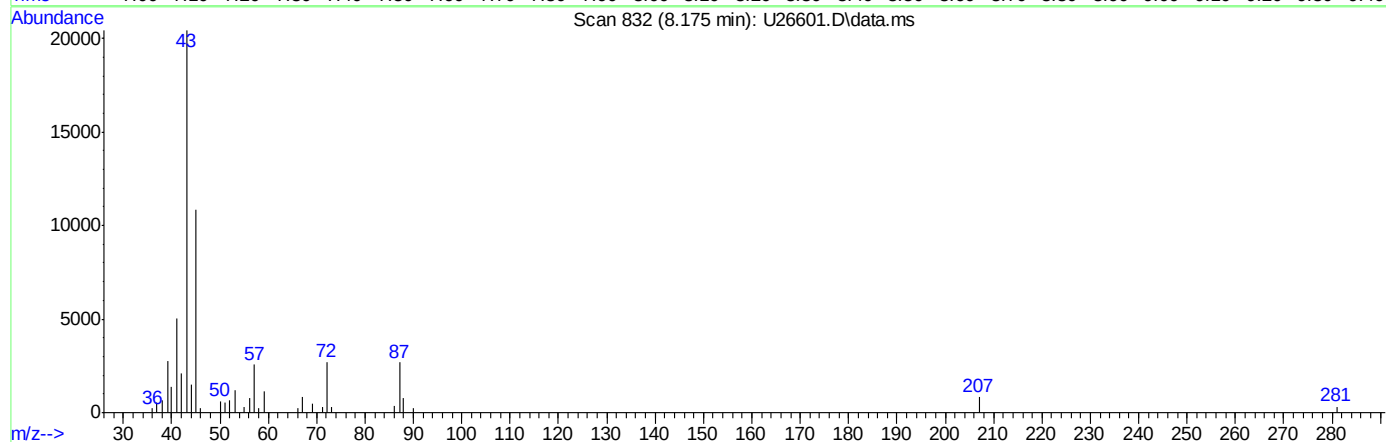
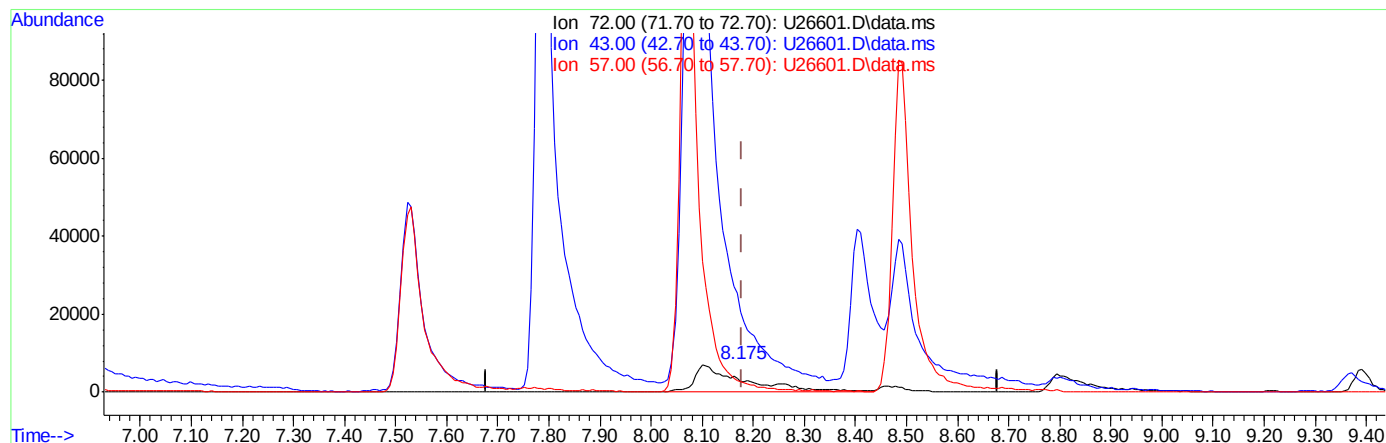
response 19760

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	394.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(30) 2-butanone (P)

8.175min (-0.004) 74.96ppb

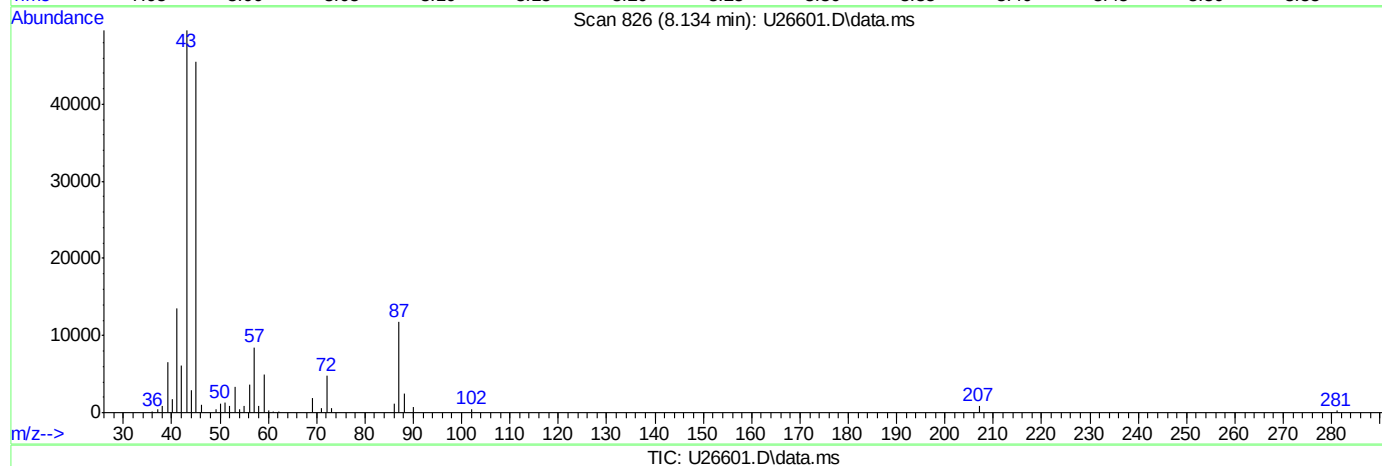
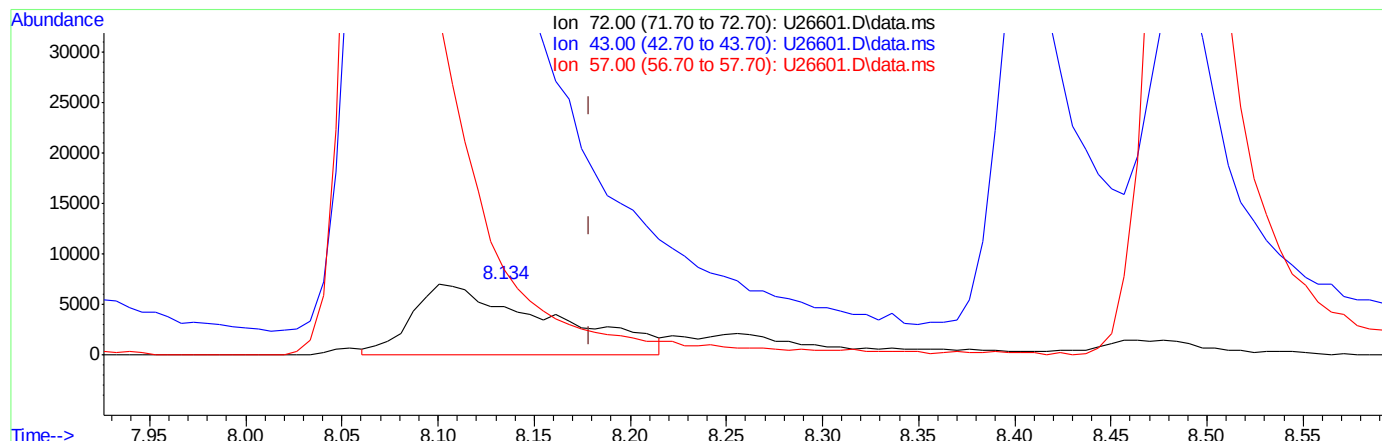
response 48508

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(30) 2-butanone (P)

8.134min (-0.045) 53.73ppb m

response 34772

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26286.D
 Acq On : 19 Feb 2015 2:07 pm
 Operator : GaryK
 Sample : ic1106-0.5
 Misc : ms33880,msu1106,,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 20 09:17:22 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.700	65	147831	500.00	ppb	-0.04
4) pentafluorobenzene	8.961	168	462682	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.828	114	711106	50.00	ppb	0.00
66) chlorobenzene-d5	13.086	82	243812	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.650	152	327559	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.599	113	252711	48.05	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.10%		
60) toluene-d8 (s)	11.626	98	680549	47.58	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.16%		
82) bromofluorobenzene (s)	14.316	95	219947	47.18	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.36%		
Target Compounds						
						Qvalue
47) benzene	9.628	78	7875	0.48	ppb	97
51) trichloroethene	10.246	95	2310	0.45	ppb	# 58
59) cis-1,3-dichloropropene	10.935	75	2824	0.48	ppb	85
63) trans-1,3-dichloropropene	11.360	75	1851	0.40	ppb	97
67) tetrachloroethene	12.444	166	1671	0.43	ppb	96
69) dibromochloromethane	12.045	129	2113	0.49	ppb	78
75) m,p-xylene	13.509	106	5984	0.98	ppb	# 78
76) o-xylene	13.907	106	3464	0.51	ppb	91
84) 1,1,2,2-tetrachloroethane	13.910	83	1848	0.39	ppb	88

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

7.6.1

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26287.D
 Acq On : 19 Feb 2015 2:35 pm
 Operator : GaryK
 Sample : ic1106-1
 Misc : ms33880,msu1106,,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 09:25:49 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.747	65	126989	500.00	ppb	0.00
4) pentafluorobenzene	8.959	168	421416	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.828	114	650824	50.00	ppb	0.00
66) chlorobenzene-d5	13.086	82	225443	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.649	152	322537	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.601	113	260339	54.35	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.70%		
60) toluene-d8 (s)	11.626	98	626699	47.87	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.74%		
82) bromofluorobenzene (s)	14.315	95	208882	45.51	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.02%		
Target Compounds						
					Qvalue	
6) chloromethane	4.524	50	8348m	1.23	ppb	
7) vinyl chloride	4.783	62	6849	1.15	ppb	86
8) bromomethane	5.250	96	4987	1.23	ppb	72
9) chloroethane	5.384	64	2579m	1.01	ppb	
12) trichlorofluoromethane	6.065	101	7572	0.97	ppb	95
15) 1,1-dichloroethene	6.617	96	7096	1.41	ppb	# 72
18) methylene chloride	6.763	84	6825m	1.33	ppb	
19) methyl tert butyl ether	7.552	73	15120	1.32	ppb	98
22) trans-1,2-dichloroethene	7.452	96	7259	1.64	ppb	# 68
33) 1,1-dichloroethane	7.699	63	10271	1.40	ppb	83
37) cis-1,2-dichloroethene	8.274	96	7683	1.56	ppb	# 68
38) bromochloromethane	8.437	128	3914m	1.33	ppb	
39) chloroform	8.473	83	10796	1.39	ppb	99
42) 1,1,1-trichloroethane	9.225	97	9130	1.32	ppb	92
45) carbon tetrachloride	9.589	117	8360	1.33	ppb	91
47) benzene	9.626	78	20095	1.35	ppb	94
48) 1,2-dichloroethane	9.139	62	7803	1.36	ppb	86
51) trichloroethene	10.245	95	5823	1.24	ppb	# 63
52) 1,2-dichloropropane	10.219	63	4647m	1.27	ppb	
54) bromodichloromethane	10.301	83	6871	1.22	ppb	98
59) cis-1,3-dichloropropene	10.932	75	6267	1.16	ppb	65
62) toluene	11.699	92	10510	1.25	ppb	# 77
63) trans-1,3-dichloropropene	11.358	75	4709	1.11	ppb	98
64) 1,1,2-trichloroethane	11.520	83	2853	1.13	ppb	91
67) tetrachloroethene	12.444	166	4998	1.40	ppb	95
69) dibromochloromethane	12.045	129	5101	1.27	ppb	85
70) 1,2-dibromoethane	12.310	107	3892m	1.28	ppb	
72) chlorobenzene	13.120	112	12249	1.36	ppb	79
74) ethylbenzene	13.314	91	18702	1.36	ppb	89
75) m,p-xylene	13.499	106	15016	2.67	ppb	93
76) o-xylene	13.901	106	8377	1.32	ppb	89
77) styrene	13.849	104	11090m	1.30	ppb	
78) bromoform	13.655	173	3197	1.36	ppb	98
84) 1,1,2,2-tetrachloroethane	13.908	83	5485	1.19	ppb	89

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26287.D
Acq On : 19 Feb 2015 2:35 pm
Operator : GaryK
Sample : ic1106-1
Misc : ms33880,msu1106,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 09:25:49 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration

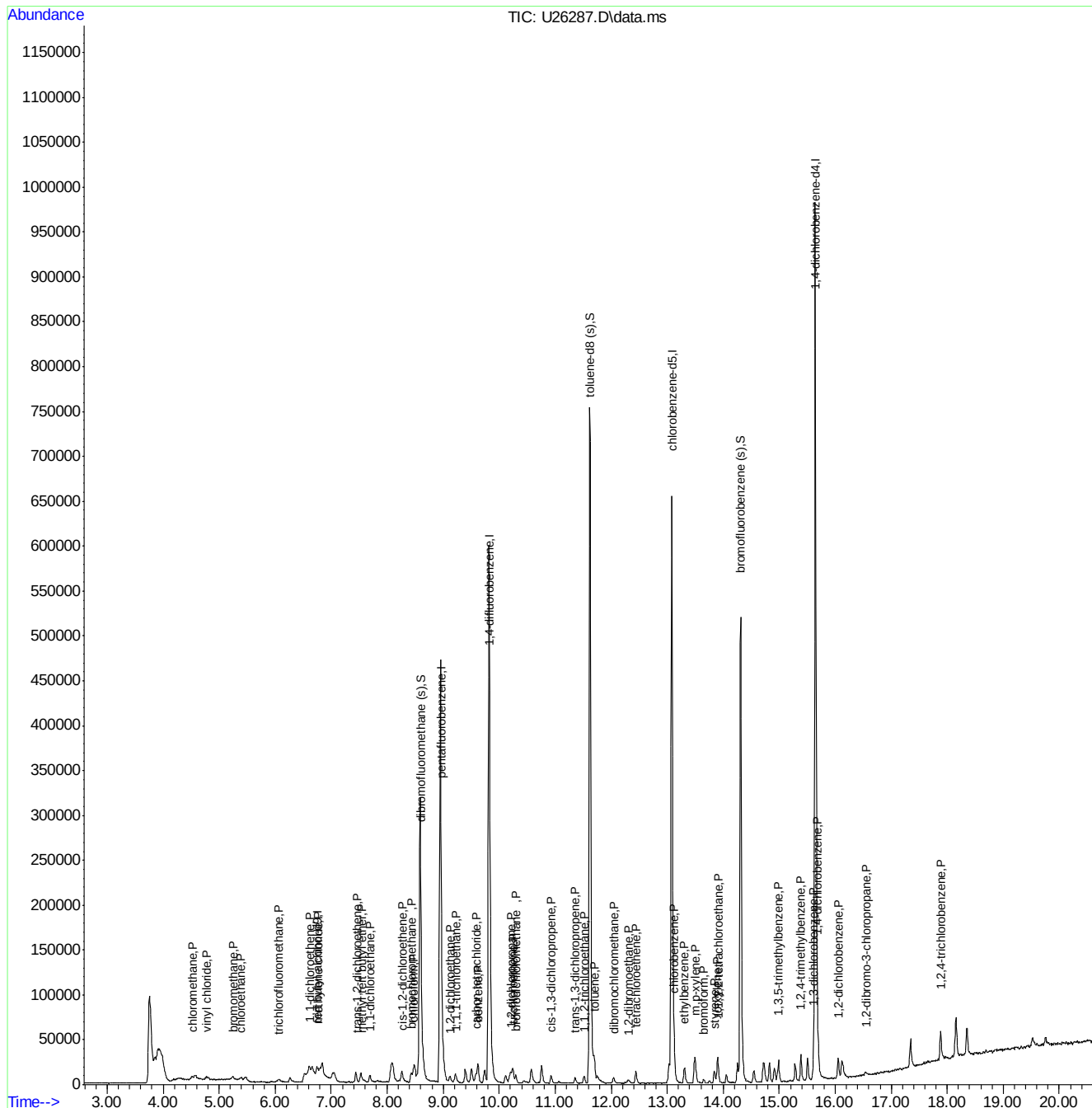
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	1,3,5-trimethylbenzene	14.988	105	18885	1.04	ppb	94
91)	1,2,4-trimethylbenzene	15.391	105	20533	1.10	ppb	93
93)	1,3-dichlorobenzene	15.612	146	12335	1.22	ppb	94
95)	1,4-dichlorobenzene	15.676	146	13446	1.30	ppb	92
96)	1,2-dichlorobenzene	16.058	146	14611	1.27	ppb	89
98)	1,2-dibromo-3-chloropr...	16.546	75	1647m	1.48	ppb	
100)	1,2,4-trichlorobenzene	17.890	180	14674m	1.33	ppb	

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26287.D
Acq On : 19 Feb 2015 2:35 pm
Operator : GaryK
Sample : ic1106-1
Misc : ms33880,msu1106,,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 09:25:49 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration



U150219w.m Fri Feb 20 11:37:36 2015

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7.6.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26288.D
 Acq On : 19 Feb 2015 3:03 pm
 Operator : GaryK
 Sample : ic1106-2
 Misc : ms33880,msu1106,,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 20 09:58:00 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.734	65	128562	500.00	ppb	0.00
4) pentafluorobenzene	8.959	168	461333	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.828	114	713469	50.00	ppb	0.00
66) chlorobenzene-d5	13.085	82	234569	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.649	152	317726	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.602	113	262791	50.11	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.22%		
60) toluene-d8 (s)	11.625	98	670047	46.69	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.38%		
82) bromofluorobenzene (s)	14.315	95	213818	47.29	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.58%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.749	59	7452m	20.30	ppb	
3) Ethanol	5.741	45	2786m	128.98	ppb	
5) dichlorodifluoromethane	4.316	85	12555	2.16	ppb	97
6) chloromethane	4.533	50	16645	2.23	ppb	91
7) vinyl chloride	4.793	62	13934	2.14	ppb	95
8) bromomethane	5.259	96	9732	2.20	ppb	82
9) chloroethane	5.394	64	5354	1.92	ppb	80
12) trichlorofluoromethane	6.076	101	16947	1.97	ppb	91
15) 1,1-dichloroethene	6.631	96	13313	2.41	ppb	# 66
18) methylene chloride	6.768	84	12541	2.24	ppb	# 75
19) methyl tert butyl ether	7.555	73	26528	2.12	ppb	81
22) trans-1,2-dichloroethene	7.450	96	11014	2.27	ppb	# 70
28) di-isopropyl ether	8.114	45	31294	2.11	ppb	82
33) 1,1-dichloroethane	7.699	63	17073	2.13	ppb	94
34) tert-butyl ethyl ether	8.508	59	30180	2.05	ppb	88
37) cis-1,2-dichloroethene	8.274	96	12683	2.35	ppb	# 63
38) bromochloromethane	8.437	128	6643m	2.06	ppb	
39) chloroform	8.475	83	17935	2.11	ppb	99
42) 1,1,1-trichloroethane	9.226	97	14015	1.85	ppb	95
45) carbon tetrachloride	9.589	117	12757	1.85	ppb	84
47) benzene	9.627	78	35039	2.15	ppb	96
48) 1,2-dichloroethane	9.139	62	13989	2.22	ppb	88
49) tert-amyl methyl ether	9.745	73	23977	1.96	ppb	98
51) trichloroethene	10.246	95	11431	2.22	ppb	86
52) 1,2-dichloropropane	10.216	63	8675	2.17	ppb	91
53) dibromomethane	10.191	93	6854	2.24	ppb	90
54) bromodichloromethane	10.302	83	12799	2.07	ppb	97
59) cis-1,3-dichloropropene	10.930	75	12123	2.05	ppb	89
62) toluene	11.698	92	18004	1.95	ppb	94
63) trans-1,3-dichloropropene	11.356	75	9001	1.94	ppb	92
64) 1,1,2-trichloroethane	11.518	83	5287	1.91	ppb	89
67) tetrachloroethene	12.442	166	8169	2.19	ppb	90
69) dibromochloromethane	12.045	129	9167	2.19	ppb	99
70) 1,2-dibromoethane	12.303	107	7094m	2.24	ppb	

7.6.3

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26288.D
Acq On : 19 Feb 2015 3:03 pm
Operator : GaryK
Sample : ic1106-2
Misc : ms33880,msu1106,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 20 09:58:00 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) chlorobenzene	13.120	112	21891	2.34	ppb	83
73) 1,1,1,2-tetrachloroethane	13.037	131	9894	2.33	ppb	88
74) ethylbenzene	13.309	91	31110	2.17	ppb	94
75) m,p-xylene	13.493	106	25187	4.31	ppb	88
76) o-xylene	13.898	106	14501	2.20	ppb	98
77) styrene	13.841	104	19745	2.22	ppb	86
78) bromoform	13.651	173	5138	2.10	ppb	94
84) 1,1,2,2-tetrachloroethane	13.906	83	9571	2.10	ppb	98
89) 1,3,5-trimethylbenzene	14.986	105	31316	1.75	ppb	98
91) 1,2,4-trimethylbenzene	15.390	105	34145	1.86	ppb	96
93) 1,3-dichlorobenzene	15.612	146	20545	2.07	ppb	94
95) 1,4-dichlorobenzene	15.676	146	22629	2.22	ppb	98
96) 1,2-dichlorobenzene	16.055	146	24224	2.14	ppb	99
98) 1,2-dibromo-3-chloropr...	16.539	75	2657m	2.42	ppb	
100) 1,2,4-trichlorobenzene	17.883	180	24216m	2.22	ppb	

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

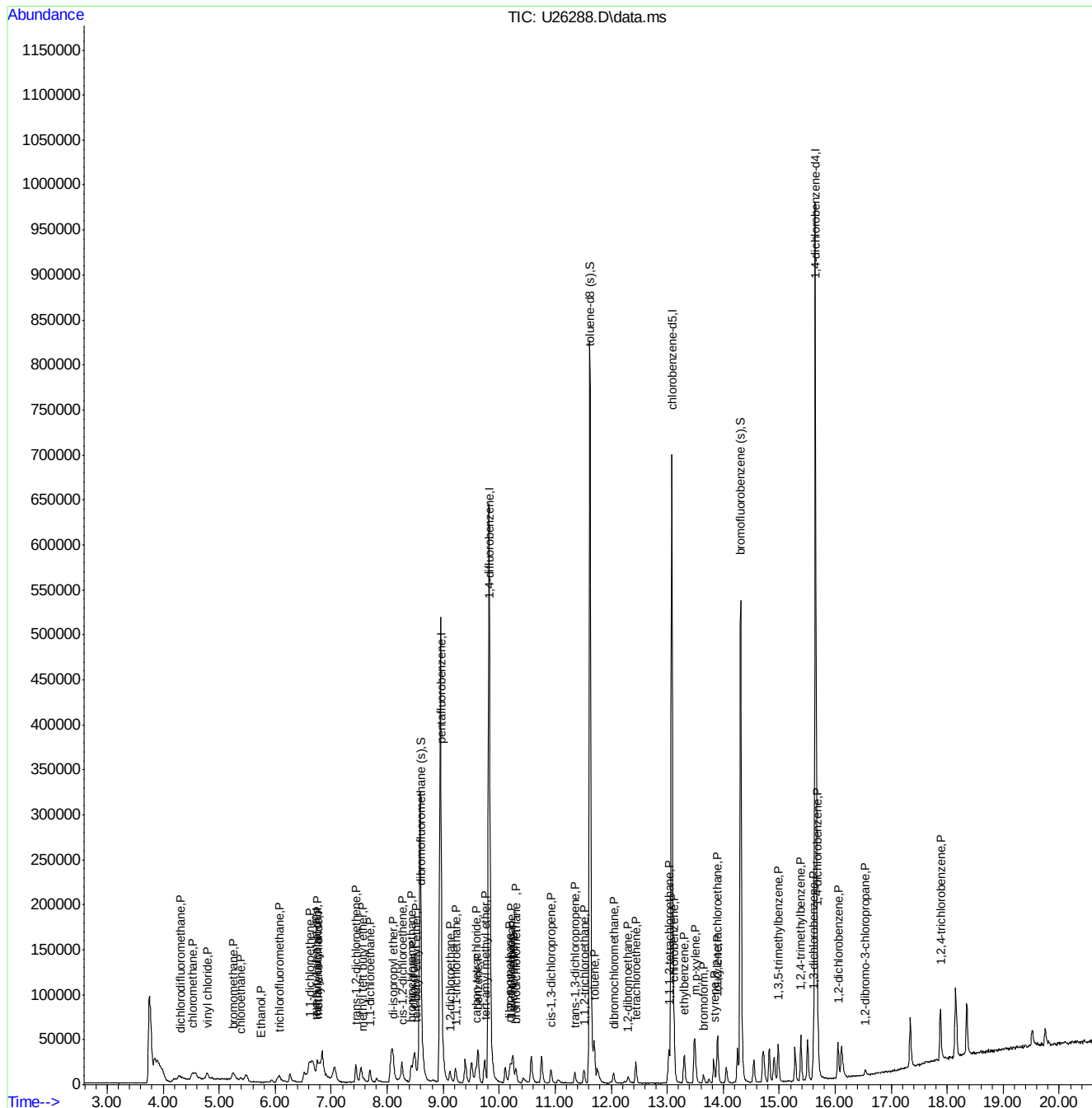
Quantitation Report (QT Reviewed)

```

Data Path   : D:\msdchem\1\data\U150219\
Data File   : U26288.D
Acq On      : 19 Feb 2015    3:03 pm
Operator    : GaryK
Sample      : ic1106-2
Misc        : ms33880,msu1106,,,,,5,1
ALS Vial    : 5      Sample Multiplier: 1

```

Quant Time: Feb 20 09:58:00 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration



U150219w.m Fri Feb 20 11:37:42 2015

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Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26289.D
 Acq On : 19 Feb 2015 3:30 pm
 Operator : GaryK
 Sample : ic1106-5
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 20 10:03:15 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.765	65	171694	500.00	ppb	0.02
4) pentafluorobenzene	8.959	168	427651	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.827	114	660892	50.00	ppb	0.00
66) chlorobenzene-d5	13.084	82	228997	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.647	152	321720	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.600	113	265710	54.66	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	109.32%		
60) toluene-d8 (s)	11.624	98	646044	48.60	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	97.20%		
82) bromofluorobenzene (s)	14.313	95	211542	46.21	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.42%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.830	59	25526m	52.08	ppb	
3) Ethanol	5.768	45	16988m	588.91	ppb	
5) dichlorodifluoromethane	4.318	85	27363	5.07	ppb	94
6) chloromethane	4.537	50	38415	5.56	ppb	100
7) vinyl chloride	4.789	62	30956	5.13	ppb	95
8) bromomethane	5.259	96	22066	5.37	ppb	89
9) chloroethane	5.397	64	13236	5.12	ppb	88
10) ethyl ether	6.284	59	18845	5.62	ppb	92
11) acetonitrile	6.104	41	2972m	5.81	ppb	
12) trichlorofluoromethane	6.072	101	37230	4.68	ppb	98
13) freon-113	6.830	101	33042	5.38	ppb	83
15) 1,1-dichloroethene	6.623	96	27341	5.35	ppb	# 80
17) Methyl Acetate	6.894	43	39663	7.34	ppb	# 69
18) methylene chloride	6.768	84	29154	5.61	ppb	# 80
19) methyl tert butyl ether	7.561	73	67879	5.86	ppb	97
20) acrylonitrile	6.749	53	10626m	5.92	ppb	
21) allyl chloride	6.863	41	41019	6.00	ppb	99
22) trans-1,2-dichloroethene	7.451	96	26841	5.97	ppb	# 77
23) iodomethane	6.678	142	56125	5.32	ppb	97
24) carbon disulfide	7.052	76	92230	5.30	ppb	98
25) propionitrile	8.063	54	1922	5.07	ppb	100
26) vinyl acetate	7.845	43	27352	5.81	ppb	88
27) chloroprene	8.067	53	34314	5.43	ppb	93
28) di-isopropyl ether	8.114	45	75636	5.51	ppb	94
29) methacrylonitrile	8.267	41	16592	6.09	ppb	94
30) 2-butanone	8.161	72	1991m	3.17	ppb	
31) Ethyl Acetate	8.122	43	68341	5.68	ug/L	64
32) Hexane	8.093	41	35602	5.50	ppb	# 74
33) 1,1-dichloroethane	7.703	63	41662	5.61	ppb	95
34) tert-butyl ethyl ether	8.509	59	75548	5.54	ppb	87
35) isobutyl alcohol	8.524	43	21833m	45.77	ppb	
36) 2,2-dichloropropane	8.563	77	29513	6.08	ppb	99
37) cis-1,2-dichloroethene	8.273	96	29623	5.91	ppb	# 80
38) bromochloromethane	8.441	128	16781	5.62	ppb	# 53

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26289.D
 Acq On : 19 Feb 2015 3:30 pm
 Operator : GaryK
 Sample : ic1106-5
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 20 10:03:15 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) chloroform	8.477	83	44619	5.67	ppb	99
41) Tetrahydrofuran	8.868	42	8832	6.54	ppb	81
42) 1,1,1-trichloroethane	9.229	97	37966	5.40	ppb	93
44) Cyclohexane	9.518	56	44087	5.40	ppb #	78
45) carbon tetrachloride	9.590	117	34876	5.46	ppb	95
46) 1,1-dichloropropene	9.401	75	29135	5.56	ppb	88
47) benzene	9.625	78	83693	5.54	ppb	96
48) 1,2-dichloroethane	9.142	62	33200	5.69	ppb	93
49) tert-amyl methyl ether	9.760	73	71180	6.29	ppb	96
50) heptane	10.111	43	26066m	5.47	ppb	
51) trichloroethene	10.245	95	25030	5.25	ppb	72
52) 1,2-dichloropropane	10.216	63	19020	5.14	ppb	91
53) dibromomethane	10.193	93	16267	5.74	ppb	77
54) bromodichloromethane	10.302	83	29733	5.18	ppb	90
55) Methylcyclohexane	10.762	83	38508	5.33	ppb #	82
56) 2-chloroethyl vinyl ether	10.708	63	3783	4.76	ppb	43
57) methyl methacrylate	10.432	69	9054	4.68	ppb #	72
59) cis-1,3-dichloropropene	10.926	75	26520	4.83	ppb	78
61) 4-methyl-2-pentanone	11.078	43	23066	6.21	ppb	93
62) toluene	11.698	92	42718	5.00	ppb	97
63) trans-1,3-dichloropropene	11.351	75	20139	4.69	ppb	98
64) 1,1,2-trichloroethane	11.518	83	12932	5.04	ppb	89
65) ethyl methacrylate	11.761	69	16363	4.91	ppb #	1
67) tetrachloroethene	12.439	166	20418	5.62	ppb	98
68) 1,3-dichloropropane	11.757	76	21082	5.26	ppb	95
69) dibromochloromethane	12.043	129	21459	5.25	ppb	97
70) 1,2-dibromoethane	12.299	107	17127	5.53	ppb	96
71) 2-hexanone	11.980	43	14280	7.26	ppb	92
72) chlorobenzene	13.119	112	49311	5.41	ppb	88
73) 1,1,1,2-tetrachloroethane	13.037	131	24577	5.93	ppb	95
74) ethylbenzene	13.302	91	79096	5.66	ppb	98
75) m,p-xylene	13.486	106	63177	11.07	ppb	89
76) o-xylene	13.895	106	36808	5.72	ppb	86
77) styrene	13.832	104	48365	5.58	ppb	94
78) bromoform	13.650	173	13699	5.72	ppb	94
79) trans-1,4-dichloro-2-b...	14.059	53	4914	5.85	ppb #	57
81) isopropylbenzene	14.258	105	95705	4.70	ppb	94
83) bromobenzene	14.547	156	24053	4.92	ppb #	76
84) 1,1,2,2-tetrachloroethane	13.902	83	25763	5.59	ppb	95
85) 1,2,3-trichloropropane	14.055	75	24179	5.46	ppb	98
86) n-propylbenzene	14.709	91	103651	4.92	ppb	92
87) 2-chlorotoluene	14.821	91	65074	4.95	ppb	93
88) 4-chlorotoluene	14.904	91	60315	5.07	ppb	82
89) 1,3,5-trimethylbenzene	14.982	105	83013	4.57	ppb	93
90) tert-butylbenzene	15.284	91	39753	3.84	ppb	88
91) 1,2,4-trimethylbenzene	15.387	105	88631	4.77	ppb	99
92) sec-butylbenzene	15.507	105	110661	4.50	ppb	93
93) 1,3-dichlorobenzene	15.610	146	52515	5.22	ppb	95
94) p-isopropyltoluene	15.687	119	102893	4.75	ppb	94
95) 1,4-dichlorobenzene	15.676	146	55815	5.40	ppb	97

7.6.4

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26289.D
Acq On : 19 Feb 2015 3:30 pm
Operator : GaryK
Sample : ic1106-5
Misc : ms33880,msu1106,,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 20 10:03:15 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2-dichlorobenzene	16.049	146	59658	5.21	ppb	95
97) n-butylbenzene	16.114	91	94030	5.18	ppb	82
98) 1,2-dibromo-3-chloropr...	16.536	75	7005	6.30	ppb #	78
99) 1,3,5-trichlorobenzene	17.341	180	58903	5.36	ug/L	97
100) 1,2,4-trichlorobenzene	17.880	180	61545	5.58	ppb	88
101) hexachlorobutadiene	18.162	225	17406	4.68	ppb	94
102) naphthalene	18.146	128	163604	5.41	ppb	100
105) 1,2,3-trichlorobenzene	18.349	180	60796	5.55	ppb	94

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

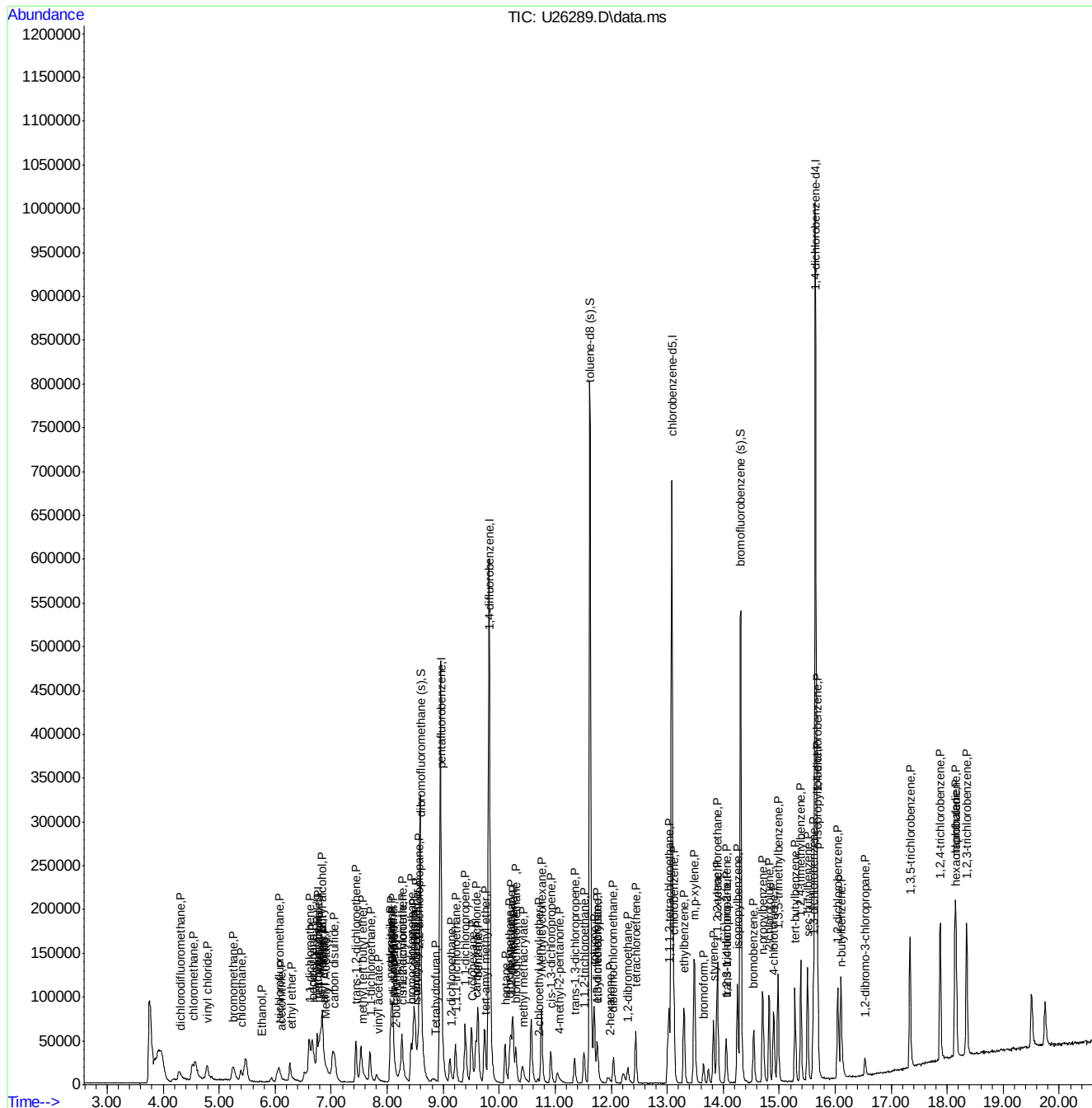
7.6.4

7

Quantitation Report (QT Reviewed)

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Data Path   : D:\msdchem\1\data\U150219\  
Data File   : U26289.D  
Acq On      : 19 Feb 2015    3:30 pm  
Operator    : GaryK  
Sample      : ic1106-5  
Misc        : ms33880,msu1106,,,,,5,1  
ALS Vial    : 6      Sample Multiplier: 1
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Quant Time: Feb 20 10:03:15 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration



U150219w.m Fri Feb 20 11:37:47 2015

Page: 4

7.6.4

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26290.D
 Acq On : 19 Feb 2015 3:58 pm
 Operator : GaryK
 Sample : ic1106-10
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 11:06:10 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.675	65	176768	500.00	ppb	-0.07
4) pentafluorobenzene	8.957	168	465523	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.825	114	727777	50.00	ppb	0.00
66) chlorobenzene-d5	13.082	82	261953	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.646	152	333170	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.594	113	249193	47.09	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.18%		
60) toluene-d8 (s)	11.622	98	718832	49.10	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	98.20%		
82) bromofluorobenzene (s)	14.311	95	232359	49.01	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	98.02%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.749	59	51171m	101.40	ppb	
3) Ethanol	5.747	45	36216m	1219.44	ppb	
5) dichlorodifluoromethane	4.323	85	57968	9.86	ppb	94
6) chloromethane	4.545	50	81049	10.78	ppb	97
7) vinyl chloride	4.798	62	65040	9.91	ppb	100
8) bromomethane	5.267	96	46955	10.50	ppb	97
9) chloroethane	5.398	64	27814	9.88	ppb	97
10) ethyl ether	6.273	59	37178	10.19	ppb	88
11) acetonitrile	6.097	41	7996m	14.36	ppb	
12) trichlorofluoromethane	6.081	101	82417	9.52	ppb	92
13) freon-113	6.840	101	61039	9.12	ppb	89
14) acrolein	6.016	56	94m	7.74	ppb	
15) 1,1-dichloroethene	6.630	96	57359	10.31	ppb	# 80
16) acetone	6.164	58	4564m	16.54	ppb	
17) Methyl Acetate	6.832	43	66482	11.31	ppb	# 83
18) methylene chloride	6.769	84	60658	10.73	ppb	# 80
19) methyl tert butyl ether	7.548	73	129129	10.24	ppb	92
20) acrylonitrile	6.697	53	19078	9.77	ppb	77
21) allyl chloride	6.859	41	77211	10.37	ppb	86
22) trans-1,2-dichloroethene	7.449	96	50999	10.43	ppb	# 71
23) iodomethane	6.684	142	116434	10.15	ppb	99
24) carbon disulfide	7.068	76	193601	10.22	ppb	99
25) propionitrile	8.065	54	3544	8.58	ppb	100
26) vinyl acetate	7.820	43	52978	10.34	ppb	94
27) chloroprene	8.064	53	65606	9.54	ppb	90
28) di-isopropyl ether	8.108	45	154380	10.33	ppb	92
29) methacrylonitrile	8.234	41	31153	10.50	ppb	89
30) 2-butanone	8.134	72	6380m	9.32	ppb	
31) Ethyl Acetate	8.110	43	139593	10.67	ug/L	# 67
32) Hexane	8.090	41	69309	9.83	ppb	85
33) 1,1-dichloroethane	7.699	63	83677	10.34	ppb	92
34) tert-butyl ethyl ether	8.503	59	151236	10.18	ppb	89
35) isobutyl alcohol	8.517	43	26536	51.11	ppb	90
36) 2,2-dichloropropane	8.565	77	52147	9.86	ppb	92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26290.D
 Acq On : 19 Feb 2015 3:58 pm
 Operator : GaryK
 Sample : ic1106-10
 Misc : ms33880,msu1106,,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 11:06:10 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.270	96	57381	10.52	ppb	# 80
38) bromochloromethane	8.434	128	33417	10.27	ppb	# 56
39) chloroform	8.472	83	88395	10.31	ppb	95
41) Tetrahydrofuran	8.827	42	16009	10.90	ppb	93
42) 1,1,1-trichloroethane	9.231	97	73945	9.67	ppb	97
44) Cyclohexane	9.521	56	83376	9.28	ppb	# 83
45) carbon tetrachloride	9.591	117	66404	9.44	ppb	94
46) 1,1-dichloropropene	9.398	75	57006	9.88	ppb	91
47) benzene	9.623	78	173305	10.43	ppb	97
48) 1,2-dichloroethane	9.132	62	68249	10.61	ppb	92
49) tert-amyl methyl ether	9.751	73	133268	10.69	ppb	95
50) heptane	10.111	43	49134m	9.36	ppb	
51) trichloroethene	10.244	95	52259	9.96	ppb	74
52) 1,2-dichloropropane	10.210	63	42131	10.34	ppb	95
53) dibromomethane	10.185	93	33633	10.78	ppb	94
54) bromodichloromethane	10.298	83	64318	10.18	ppb	97
55) Methylcyclohexane	10.768	83	71553	9.00	ppb	# 81
56) 2-chloroethyl vinyl ether	10.696	63	6675	7.63	ppb	95
57) methyl methacrylate	10.411	69	19905	9.35	ppb	97
59) cis-1,3-dichloropropene	10.921	75	60231	9.97	ppb	86
61) 4-methyl-2-pentanone	11.049	43	41844	10.23	ppb	95
62) toluene	11.696	92	94022	10.00	ppb	95
63) trans-1,3-dichloropropene	11.345	75	47840	10.11	ppb	92
64) 1,1,2-trichloroethane	11.512	83	28389	10.04	ppb	96
65) ethyl methacrylate	11.737	69	34662	9.44	ppb	# 1
67) tetrachloroethene	12.438	166	44216	10.64	ppb	98
68) 1,3-dichloropropane	11.750	76	49972	10.90	ppb	99
69) dibromochloromethane	12.039	129	49455	10.59	ppb	94
70) 1,2-dibromoethane	12.292	107	38894	10.98	ppb	98
71) 2-hexanone	11.938	43	28429	12.64	ppb	93
72) chlorobenzene	13.118	112	114055	10.93	ppb	87
73) 1,1,1,2-tetrachloroethane	13.036	131	51069	10.77	ppb	98
74) ethylbenzene	13.298	91	166462	10.42	ppb	91
75) m,p-xylene	13.481	106	135618	20.77	ppb	86
76) o-xylene	13.892	106	75748	10.29	ppb	89
77) styrene	13.825	104	106586	10.75	ppb	91
78) bromoform	13.646	173	29199	10.66	ppb	100
79) trans-1,4-dichloro-2-b...	14.051	53	9931	10.33	ppb	# 45
81) isopropylbenzene	14.256	105	195360	9.27	ppb	95
83) bromobenzene	14.545	156	51000	10.07	ppb	# 76
84) 1,1,2,2-tetrachloroethane	13.898	83	44094	9.23	ppb	99
85) 1,2,3-trichloropropane	14.050	75	47914	10.44	ppb	100
86) n-propylbenzene	14.704	91	206819	9.48	ppb	91
87) 2-chlorotoluene	14.818	91	133167	9.78	ppb	83
88) 4-chlorotoluene	14.899	91	124287	10.08	ppb	86
89) 1,3,5-trimethylbenzene	14.979	105	174474	9.28	ppb	93
90) tert-butylbenzene	15.282	91	89558	8.36	ppb	83
91) 1,2,4-trimethylbenzene	15.385	105	181392	9.43	ppb	95
92) sec-butylbenzene	15.506	105	223505	8.77	ppb	94
93) 1,3-dichlorobenzene	15.607	146	104537	10.04	ppb	99

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26290.D
Acq On : 19 Feb 2015 3:58 pm
Operator : GaryK
Sample : ic1106-10
Misc : ms33880,msu1106,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 11:06:10 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration

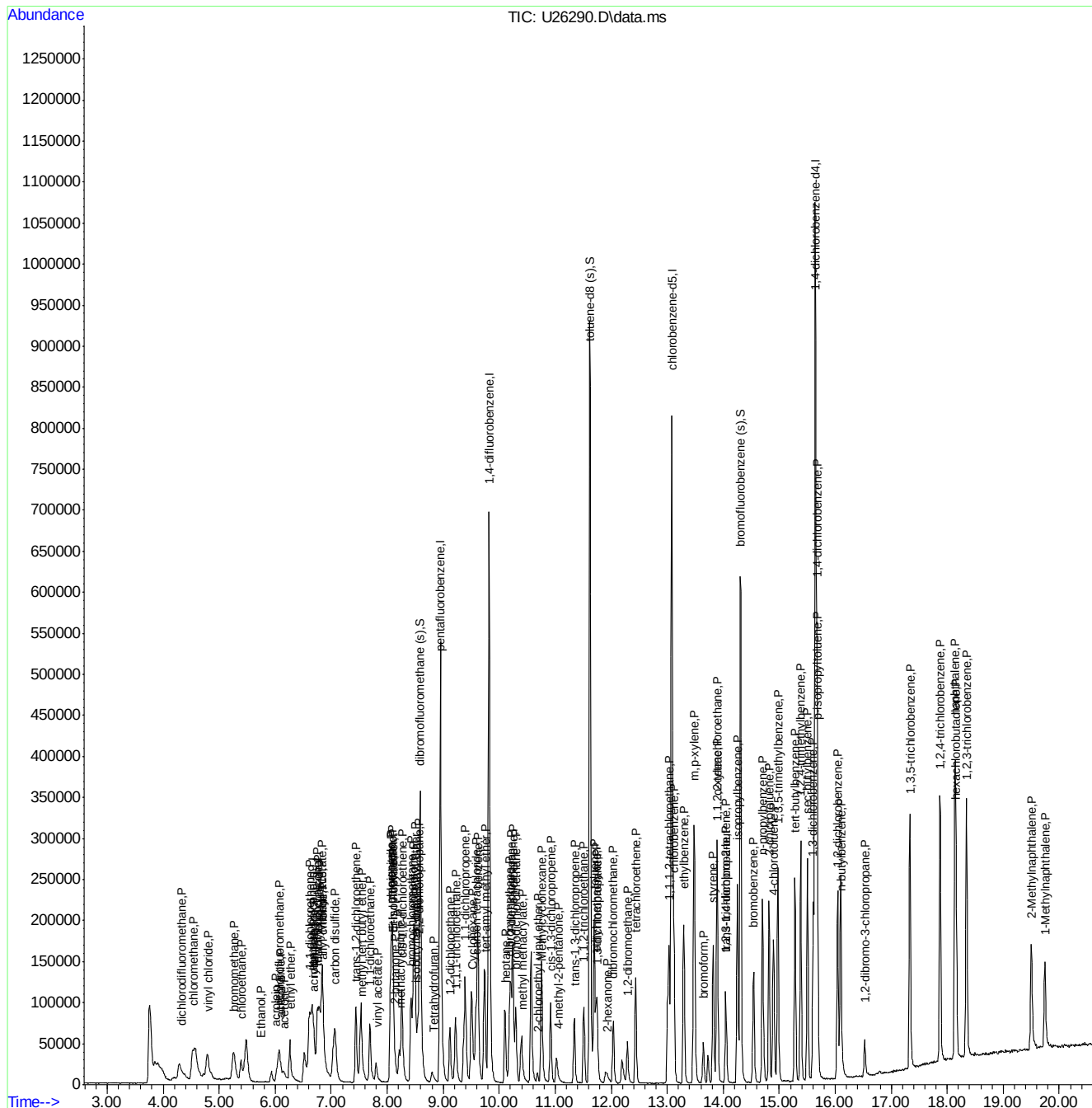
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.682	119	205925	9.19	ppb	93
95) 1,4-dichlorobenzene	15.674	146	112383	10.49	ppb	99
96) 1,2-dichlorobenzene	16.046	146	120202	10.14	ppb	94
97) n-butylbenzene	16.106	91	179792	9.56	ppb	87
98) 1,2-dibromo-3-chloropr...	16.529	75	12540	10.89	ppb #	62
99) 1,3,5-trichlorobenzene	17.338	180	116985	10.28	ug/L	100
100) 1,2,4-trichlorobenzene	17.876	180	121956	10.67	ppb	96
101) hexachlorobutadiene	18.161	225	35866	9.31	ppb	94
102) naphthalene	18.141	128	329355	10.52	ppb	100
103) 2-Methylnaphthalene	19.511	142	97216	5.14	ug/L	96
104) 1-Methylnaphthalene	19.751	142	75905	5.25	ug/L	96
105) 1,2,3-trichlorobenzene	18.346	180	121477	10.71	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26290.D
Acq On : 19 Feb 2015 3:58 pm
Operator : GaryK
Sample : ic1106-10
Misc : ms33880,msu1106,,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 11:06:10 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration



U150219w.m Fri Feb 20 11:37:56 2015

Page: 4

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26291.D
 Acq On : 19 Feb 2015 4:25 pm
 Operator : GaryK
 Sample : ic1106-25
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 20 10:09:16 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.739	65	158668	500.00	ppb	0.00
4) pentafluorobenzene	8.956	168	447338	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.824	114	704504	50.00	ppb	0.00
66) chlorobenzene-d5	13.080	82	261459	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.645	152	341932	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.596	113	269013	52.90	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	105.80%		
60) toluene-d8 (s)	11.621	98	699078	49.33	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	98.66%		
82) bromofluorobenzene (s)	14.310	95	232156	47.71	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.42%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.810	59	115189m	254.29	ppb	
3) Ethanol	5.766	45	66487	2494.08	ppb	# 71
5) dichlorodifluoromethane	4.322	85	146464	25.94	ppb	99
6) chloromethane	4.548	50	193828	26.83	ppb	95
7) vinyl chloride	4.796	62	157275	24.93	ppb	99
8) bromomethane	5.269	96	109330	25.44	ppb	97
9) chloroethane	5.401	64	67708	25.02	ppb	98
10) ethyl ether	6.280	59	94086	26.85	ppb	77
11) acetonitrile	6.097	41	13272m	24.80	ppb	
12) trichlorofluoromethane	6.080	101	200996	24.15	ppb	99
13) freon-113	6.836	101	167233	26.01	ppb	93
14) acrolein	6.070	56	3252m	278.58	ppb	
15) 1,1-dichloroethene	6.625	96	135187	25.28	ppb	# 77
16) acetone	6.185	58	11261m	42.47	ppb	
17) Methyl Acetate	6.870	43	169025	29.92	ppb	# 67
18) methylene chloride	6.770	84	138924	25.57	ppb	# 76
19) methyl tert butyl ether	7.558	73	323959	26.73	ppb	96
20) acrylonitrile	6.746	53	51263	27.32	ppb	79
21) allyl chloride	6.861	41	186729	26.10	ppb	89
22) trans-1,2-dichloroethene	7.448	96	122565	26.08	ppb	# 76
23) iodomethane	6.682	142	281674	25.54	ppb	99
24) carbon disulfide	7.059	76	461528	25.36	ppb	100
25) propionitrile	8.062	54	10067	25.36	ppb	100
26) vinyl acetate	7.818	43	120289	24.42	ppb	97
27) chloroprene	8.064	53	170582	25.81	ppb	85
28) di-isopropyl ether	8.108	45	372092	25.91	ppb	91
29) methacrylonitrile	8.244	41	73524	25.80	ppb	96
30) 2-butanone	8.175	72	18452m	28.04	ppb	
31) Ethyl Acetate	8.112	43	338396	26.91	ug/L	# 74
32) Hexane	8.087	41	175072	25.85	ppb	84
33) 1,1-dichloroethane	7.700	63	202218	26.01	ppb	95
34) tert-butyl ethyl ether	8.505	59	371930	26.07	ppb	90
35) isobutyl alcohol	8.516	43	67037	134.36	ppb	99
36) 2,2-dichloropropane	8.565	77	138112	27.19	ppb	87

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26291.D
 Acq On : 19 Feb 2015 4:25 pm
 Operator : GaryK
 Sample : ic1106-25
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 20 10:09:16 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.270	96	136418	26.04	ppb	# 82
38) bromochloromethane	8.438	128	81578	26.10	ppb	# 55
39) chloroform	8.474	83	215894	26.21	ppb	98
41) Tetrahydrofuran	8.862	42	39638	28.08	ppb	91
42) 1,1,1-trichloroethane	9.230	97	189563	25.79	ppb	94
44) Cyclohexane	9.519	56	224538	25.82	ppb	87
45) carbon tetrachloride	9.591	117	175363	25.75	ppb	98
46) 1,1-dichloropropene	9.398	75	144887	25.95	ppb	90
47) benzene	9.622	78	414329	25.75	ppb	96
48) 1,2-dichloroethane	9.136	62	162084	26.04	ppb	89
49) tert-amyl methyl ether	9.750	73	320467	26.56	ppb	95
50) heptane	10.104	43	131182m	25.83	ppb	
51) trichloroethene	10.241	95	126268	24.85	ppb	82
52) 1,2-dichloropropane	10.210	63	99410	25.20	ppb	96
53) dibromomethane	10.188	93	78099	25.85	ppb	93
54) bromodichloromethane	10.298	83	155008	25.35	ppb	96
55) Methylcyclohexane	10.766	83	199654	25.93	ppb	84
56) 2-chloroethyl vinyl ether	10.684	63	13244	15.64	ppb	88
57) methyl methacrylate	10.409	69	48952	23.75	ppb	82
58) 1,4-dioxane	10.434	88	1686m	97.24	ppb	
59) cis-1,3-dichloropropene	10.920	75	141528	24.19	ppb	85
61) 4-methyl-2-pentanone	11.040	43	107560	27.17	ppb	98
62) toluene	11.694	92	227005	24.94	ppb	100
63) trans-1,3-dichloropropene	11.342	75	110885	24.20	ppb	96
64) 1,1,2-trichloroethane	11.514	83	68052	24.87	ppb	96
65) ethyl methacrylate	11.728	69	87707	24.69	ppb	87
67) tetrachloroethene	12.436	166	107981	26.02	ppb	96
68) 1,3-dichloropropane	11.749	76	115360	25.22	ppb	93
69) dibromochloromethane	12.038	129	118697	25.46	ppb	96
70) 1,2-dibromoethane	12.292	107	90451	25.58	ppb	94
71) 2-hexanone	11.910	43	69240	30.84	ppb	93
72) chlorobenzene	13.117	112	266791	25.63	ppb	87
73) 1,1,1,2-tetrachloroethane	13.035	131	125561	26.52	ppb	94
74) ethylbenzene	13.294	91	414532	25.99	ppb	94
75) m,p-xylene	13.477	106	340767	52.28	ppb	87
76) o-xylene	13.889	106	192468	26.19	ppb	92
77) styrene	13.821	104	263017	26.58	ppb	92
78) bromoform	13.645	173	71193	26.05	ppb	99
79) trans-1,4-dichloro-2-b...	14.048	53	26889	28.02	ppb	# 50
81) isopropylbenzene	14.253	105	517898	23.93	ppb	95
83) bromobenzene	14.542	156	125711	24.18	ppb	# 77
84) 1,1,2,2-tetrachloroethane	13.897	83	128731	26.26	ppb	98
85) 1,2,3-trichloropropane	14.047	75	119973	25.48	ppb	98
86) n-propylbenzene	14.699	91	541452	24.17	ppb	93
87) 2-chlorotoluene	14.816	91	337425	24.14	ppb	84
88) 4-chlorotoluene	14.894	91	308190	24.37	ppb	87
89) 1,3,5-trimethylbenzene	14.976	105	463750	24.05	ppb	91
90) tert-butylbenzene	15.280	91	252458	22.96	ppb	79
91) 1,2,4-trimethylbenzene	15.384	105	478212	24.23	ppb	98
92) sec-butylbenzene	15.504	105	631408	24.14	ppb	97

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26291.D
Acq On : 19 Feb 2015 4:25 pm
Operator : GaryK
Sample : ic1106-25
Misc : ms33880,msu1106,,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 20 10:09:16 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.606	146	265140	24.81	ppb	98
94) p-isopropyltoluene	15.678	119	558080	24.26	ppb	94
95) 1,4-dichlorobenzene	15.673	146	277830	25.27	ppb	99
96) 1,2-dichlorobenzene	16.043	146	307079	25.24	ppb	98
97) n-butylbenzene	16.099	91	496602	25.73	ppb	88
98) 1,2-dibromo-3-chloropr...	16.526	75	31705	26.83	ppb #	65
99) 1,3,5-trichlorobenzene	17.334	180	303834	26.01	ug/L	96
100) 1,2,4-trichlorobenzene	17.873	180	309615	26.39	ppb	94
101) hexachlorobutadiene	18.160	225	105320	26.65	ppb	92
102) naphthalene	18.138	128	836207	26.03	ppb	100
103) 2-Methylnaphthalene	19.504	142	252652	13.01	ug/L	97
104) 1-Methylnaphthalene	19.746	142	191822m	12.92	ug/L	
105) 1,2,3-trichlorobenzene	18.344	180	304739	26.17	ppb	96

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

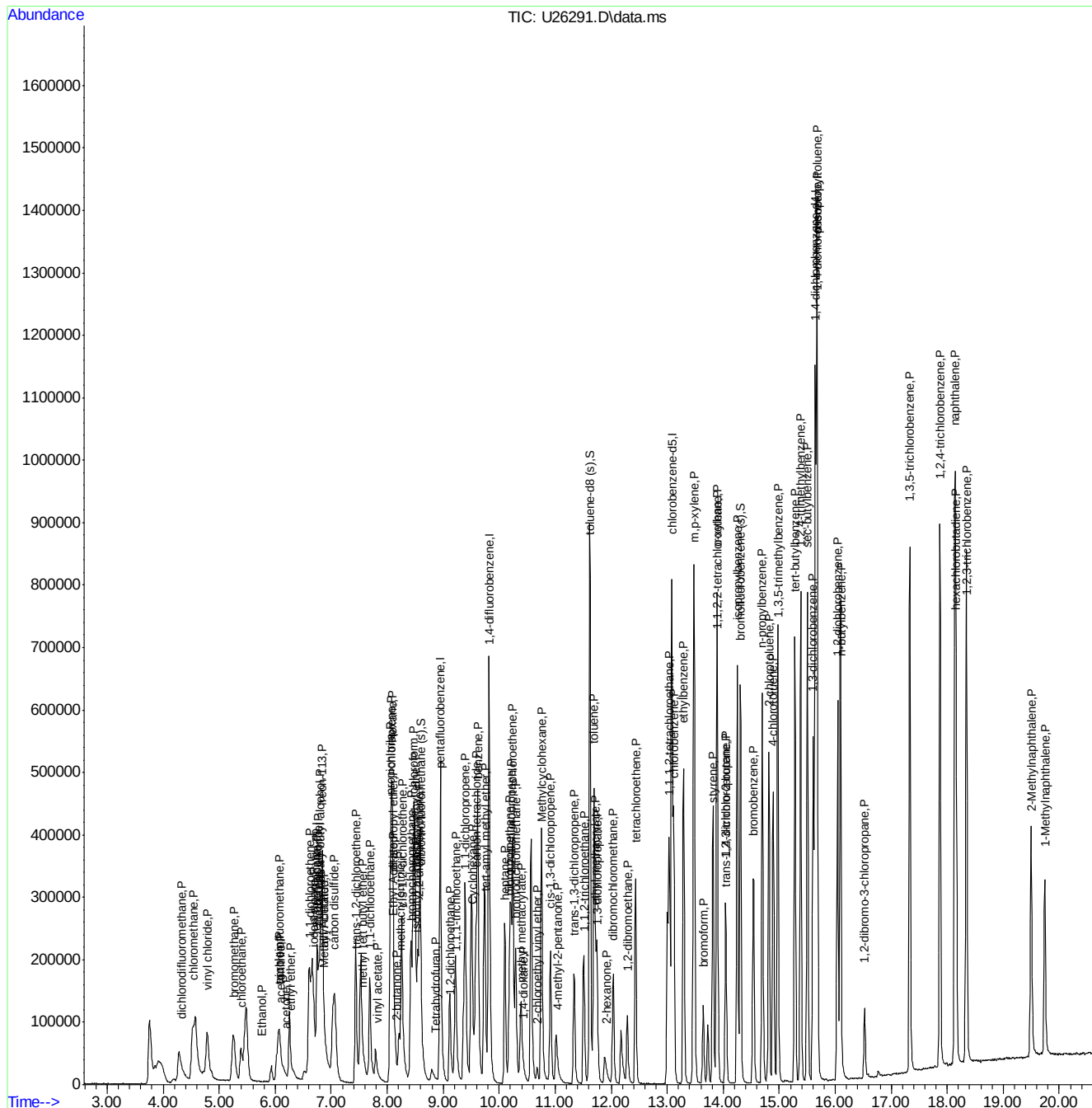
Quantitation Report (QT Reviewed)

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Data Path   : D:\msdchem\1\data\U150219\
Data File   : U26291.D
Acq On      : 19 Feb 2015    4:25 pm
Operator    : GaryK
Sample      : ic1106-25
Misc        : ms33880,msu1106,,,,,5,1
ALS Vial    : 8      Sample Multiplier: 1

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Quant Time: Feb 20 10:09:16 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration



U150219w.m Fri Feb 20 11:38:02 2015

Page: 4

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Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26292.D
 Acq On : 19 Feb 2015 4:52 pm
 Operator : GaryK
 Sample : icc1106-50
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 20 11:07:47 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.741	65	153189	500.00	ppb	0.00
4) pentafluorobenzene	8.960	168	475490	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.826	114	759644	50.00	ppb	0.00
66) chlorobenzene-d5	13.079	82	295912	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.644	152	352055	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.599	113	270248	50.00	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
60) toluene-d8 (s)	11.622	98	764031	50.00	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
82) bromofluorobenzene (s)	14.309	95	250499	50.00	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.810	59	218944m	500.62	ppb	
3) Ethanol	5.785	45	128687	5000.00	ppb	99
5) dichlorodifluoromethane	4.323	85	300134	50.00	ppb	94
6) chloromethane	4.548	50	384190	50.04	ppb	99
7) vinyl chloride	4.803	62	335297	50.00	ppb	100
8) bromomethane	5.276	96	228412	50.00	ppb	99
9) chloroethane	5.411	64	143805	50.00	ppb	97
10) ethyl ether	6.284	59	186255	50.00	ppb	92
11) acetonitrile	6.104	41	27461m	48.27	ppb	
12) trichlorofluoromethane	6.086	101	442270	50.00	ppb	100
13) freon-113	6.840	101	341667	50.00	ppb	89
14) acrolein	6.044	56	3102	250.00	ppb	92
15) 1,1-dichloroethene	6.635	96	284246	50.00	ppb	# 77
16) acetone	6.205	58	22640m	80.32	ppb	
17) Methyl Acetate	6.863	43	314278	52.34	ppb	# 65
18) methylene chloride	6.777	84	288733	50.00	ppb	# 80
19) methyl tert butyl ether	7.560	73	644069	50.00	ppb	96
20) acrylonitrile	6.758	53	99973	50.12	ppb	92
21) allyl chloride	6.867	41	380162	50.00	ppb	91
22) trans-1,2-dichloroethene	7.456	96	249745	50.00	ppb	# 72
23) iodomethane	6.690	142	586101	50.00	ppb	99
24) carbon disulfide	7.067	76	967312	50.00	ppb	99
25) propionitrile	8.069	54	21094	50.00	ppb	100
26) vinyl acetate	7.814	43	261791	50.00	ppb	93
27) chloroprene	8.069	53	351248	50.00	ppb	86
28) di-isopropyl ether	8.110	45	763244	50.00	ppb	96
29) methacrylonitrile	8.240	41	150763	49.76	ppb	97
30) 2-butanone	8.161	72	32429m	46.37	ppb	
31) Ethyl Acetate	8.111	43	668406	50.00	ug/L	# 57
32) Hexane	8.092	41	359928	50.00	ppb	# 57
33) 1,1-dichloroethane	7.705	63	413190	50.00	ppb	96
34) tert-butyl ethyl ether	8.508	59	758352	50.00	ppb	89
35) isobutyl alcohol	8.517	43	132317	249.49	ppb	96
36) 2,2-dichloropropane	8.569	77	269997	50.00	ppb	85

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26292.D
 Acq On : 19 Feb 2015 4:52 pm
 Operator : GaryK
 Sample : icc1106-50
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 20 11:07:47 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.274	96	278444	50.00	ppb	# 80
38) bromochloromethane	8.443	128	166118	50.00	ppb	# 56
39) chloroform	8.478	83	437804	50.00	ppb	94
41) Tetrahydrofuran	8.857	42	75032	50.00	ppb	88
42) 1,1,1-trichloroethane	9.234	97	390702	50.00	ppb	94
44) Cyclohexane	9.523	56	468893	50.00	ppb	# 85
45) carbon tetrachloride	9.595	117	367145	50.00	ppb	95
46) 1,1-dichloropropene	9.401	75	301002	50.00	ppb	87
47) benzene	9.623	78	867501	50.00	ppb	98
48) 1,2-dichloroethane	9.137	62	335557	50.00	ppb	97
49) tert-amyl methyl ether	9.750	73	650551	50.00	ppb	94
50) heptane	10.104	43	274285m	50.00	ppb	
51) trichloroethene	10.244	95	273921	50.00	ppb	77
52) 1,2-dichloropropane	10.212	63	212706	50.00	ppb	98
53) dibromomethane	10.187	93	162897	50.00	ppb	89
54) bromodichloromethane	10.299	83	329709	50.00	ppb	97
55) Methylcyclohexane	10.770	83	415069	50.00	ppb	# 82
56) 2-chloroethyl vinyl ether	10.689	63	45653	50.00	ppb	85
57) methyl methacrylate	10.405	69	111105	50.00	ppb	81
58) 1,4-dioxane	10.452	88	4674	250.00	ppb	# 40
59) cis-1,3-dichloropropene	10.919	75	315404	50.00	ppb	86
61) 4-methyl-2-pentanone	11.031	43	213466	50.00	ppb	97
62) toluene	11.694	92	490742	50.00	ppb	94
63) trans-1,3-dichloropropene	11.341	75	246986	50.00	ppb	92
64) 1,1,2-trichloroethane	11.513	83	147549	50.00	ppb	95
65) ethyl methacrylate	11.723	69	191552	50.00	ppb	79
67) tetrachloroethene	12.436	166	234802	50.00	ppb	97
68) 1,3-dichloropropane	11.748	76	258889	50.00	ppb	95
69) dibromochloromethane	12.038	129	263844	50.00	ppb	95
70) 1,2-dibromoethane	12.291	107	200136	50.00	ppb	97
71) 2-hexanone	11.896	43	127044	50.00	ppb	99
72) chlorobenzene	13.116	112	589137	50.00	ppb	86
73) 1,1,1,2-tetrachloroethane	13.035	131	267923	50.00	ppb	97
74) ethylbenzene	13.292	91	902648	50.00	ppb	94
75) m,p-xylene	13.476	106	737724	100.00	ppb	90
76) o-xylene	13.889	106	415867	50.00	ppb	88
77) styrene	13.816	104	559924	50.00	ppb	93
78) bromoform	13.644	173	154651	50.00	ppb	99
79) trans-1,4-dichloro-2-b...	14.045	53	54302	50.00	ppb	# 62
81) isopropylbenzene	14.252	105	1113942	50.00	ppb	94
83) bromobenzene	14.540	156	267667	50.00	ppb	# 76
84) 1,1,2,2-tetrachloroethane	13.895	83	252337	50.00	ppb	99
85) 1,2,3-trichloropropane	14.045	75	242379	50.00	ppb	98
86) n-propylbenzene	14.698	91	1153182	50.00	ppb	91
87) 2-chlorotoluene	14.815	91	719530	50.00	ppb	84
88) 4-chlorotoluene	14.892	91	651136	50.00	ppb	87
89) 1,3,5-trimethylbenzene	14.975	105	992818	50.00	ppb	93
90) tert-butylbenzene	15.280	91	565955	50.00	ppb	82
91) 1,2,4-trimethylbenzene	15.384	105	1016059	50.00	ppb	96
92) sec-butylbenzene	15.503	105	1346395	50.00	ppb	95

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26292.D
Acq On : 19 Feb 2015 4:52 pm
Operator : GaryK
Sample : icc1106-50
Misc : ms33880,msu1106,,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 20 11:07:47 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration

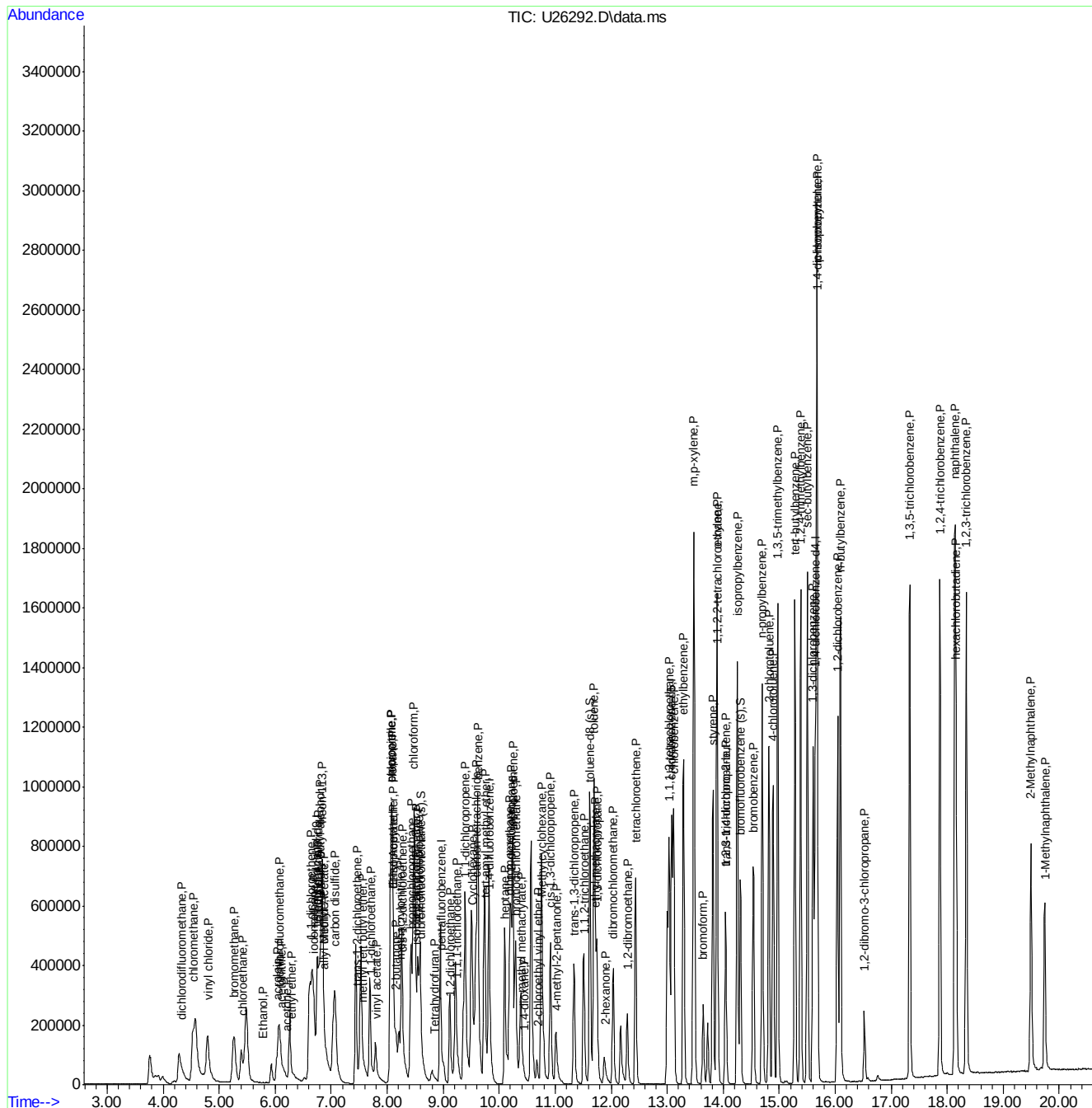
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.605	146	550119	50.00	ppb	98
94) p-isopropyltoluene	15.676	119	1184331	50.00	ppb	94
95) 1,4-dichlorobenzene	15.673	146	566000	50.00	ppb	100
96) 1,2-dichlorobenzene	16.041	146	626366	50.00	ppb	97
97) n-butylbenzene	16.095	91	993563	50.00	ppb	91
98) 1,2-dibromo-3-chloropr...	16.523	75	60824	50.00	ppb #	68
99) 1,3,5-trichlorobenzene	17.333	180	601298	50.00	ug/L	96
100) 1,2,4-trichlorobenzene	17.871	180	603870	50.00	ppb	93
101) hexachlorobutadiene	18.160	225	203462	50.00	ppb	92
102) naphthalene	18.137	128	1653780	50.00	ppb	100
103) 2-Methylnaphthalene	19.501	142	500058	25.00	ug/L	96
104) 1-Methylnaphthalene	19.747	142	382026	25.00	ug/L	95
105) 1,2,3-trichlorobenzene	18.343	180	599496	50.00	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26292.D
Acq On : 19 Feb 2015 4:52 pm
Operator : GaryK
Sample : icc1106-50
Misc : ms33880,msu1106,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 20 11:07:47 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration



U150219w.m Fri Feb 20 11:38:10 2015

Page: 4

7.6.7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26293.D
 Acq On : 19 Feb 2015 5:20 pm
 Operator : GaryK
 Sample : ic1106-100
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 20 11:08:17 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.726	65	162897	500.00	ppb	-0.01
4) pentafluorobenzene	8.955	168	471625	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.824	114	768529	50.00	ppb	0.00
66) chlorobenzene-d5	13.079	82	312154	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.644	152	385152	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.596	113	270728	50.50	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.00%		
60) toluene-d8 (s)	11.620	98	805713	52.12	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	104.24%		
82) bromofluorobenzene (s)	14.308	95	276833	50.51	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.02%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.796	59	466196m	1002.44	ppb	
3) Ethanol	5.773	45	256191	9360.82	ppb	95
5) dichlorodifluoromethane	4.320	85	640498	107.58	ppb	97
6) chloromethane	4.549	50	809876	106.35	ppb	99
7) vinyl chloride	4.803	62	705423	106.06	ppb	97
8) bromomethane	5.276	96	480757	106.10	ppb	97
9) chloroethane	5.407	64	304203	106.64	ppb	96
10) ethyl ether	6.278	59	383803	103.88	ppb	86
11) acetonitrile	6.097	41	54684m	96.90	ppb	
12) trichlorofluoromethane	6.080	101	949625	108.24	ppb	98
13) freon-113	6.833	101	694679	102.49	ppb	91
14) acrolein	6.088	56	10102	820.82	ppb	92
15) 1,1-dichloroethene	6.627	96	569450	100.99	ppb	# 78
16) acetone	6.178	58	39386m	140.88	ppb	
17) Methyl Acetate	6.855	43	661062	110.99	ppb	# 69
18) methylene chloride	6.772	84	579495	101.17	ppb	# 78
19) methyl tert butyl ether	7.555	73	1346979	105.42	ppb	96
20) acrylonitrile	6.747	53	209354	105.81	ppb	99
21) allyl chloride	6.862	41	758790	100.62	ppb	89
22) trans-1,2-dichloroethene	7.448	96	513536	103.65	ppb	# 75
23) iodomethane	6.683	142	1180418	101.53	ppb	99
24) carbon disulfide	7.057	76	1920719	100.09	ppb	98
25) propionitrile	8.063	54	41169	98.38	ppb	100
26) vinyl acetate	7.810	43	537913	103.58	ppb	93
27) chloroprene	8.064	53	728701	104.58	ppb	86
28) di-isopropyl ether	8.105	45	1568895	103.62	ppb	93
29) methacrylonitrile	8.236	41	315126	104.87	ppb	91
30) 2-butanone	8.154	72	75500m	108.83	ppb	
31) Ethyl Acetate	8.108	43	1407149	106.12	ug/L	# 65
32) Hexane	8.086	41	705801	98.85	ppb	# 81
33) 1,1-dichloroethane	7.701	63	854132	104.21	ppb	95
34) tert-butyl ethyl ether	8.504	59	1582662	105.20	ppb	88
35) isobutyl alcohol	8.513	43	265748	505.19	ppb	89
36) 2,2-dichloropropane	8.565	77	560373	104.62	ppb	89

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26293.D
 Acq On : 19 Feb 2015 5:20 pm
 Operator : GaryK
 Sample : ic1106-100
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 20 11:08:17 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.270	96	568856	102.99	ppb	# 79
38) bromochloromethane	8.441	128	342788	104.02	ppb	# 58
39) chloroform	8.475	83	909876	104.77	ppb	94
41) Tetrahydrofuran	8.849	42	164481	110.51	ppb	84
42) 1,1,1-trichloroethane	9.230	97	819443	105.73	ppb	96
44) Cyclohexane	9.518	56	959383	101.12	ppb	# 86
45) carbon tetrachloride	9.592	117	769909	103.64	ppb	96
46) 1,1-dichloropropene	9.397	75	620541	101.89	ppb	89
47) benzene	9.621	78	1801945	102.66	ppb	97
48) 1,2-dichloroethane	9.140	62	704222	103.72	ppb	95
49) tert-amyl methyl ether	9.747	73	1365765	103.76	ppb	95
50) heptane	10.098	43	547928m	98.89	ppb	
51) trichloroethene	10.241	95	570322	102.90	ppb	78
52) 1,2-dichloropropane	10.210	63	453762	105.43	ppb	96
53) dibromomethane	10.186	93	340538	103.32	ppb	90
54) bromodichloromethane	10.297	83	695692	104.28	ppb	96
55) Methylcyclohexane	10.768	83	858347	102.20	ppb	# 82
56) 2-chloroethyl vinyl ether	10.684	63	98376	106.50	ppb	86
57) methyl methacrylate	10.399	69	252405	112.28	ppb	83
58) 1,4-dioxane	10.449	88	9714	513.57	ppb	# 26
59) cis-1,3-dichloropropene	10.917	75	679333	106.45	ppb	85
61) 4-methyl-2-pentanone	11.022	43	488446	113.09	ppb	97
62) toluene	11.692	92	1062795	107.03	ppb	96
63) trans-1,3-dichloropropene	11.338	75	552916	110.64	ppb	91
64) 1,1,2-trichloroethane	11.511	83	326251	109.28	ppb	95
65) ethyl methacrylate	11.717	69	440757	113.72	ppb	94
67) tetrachloroethene	12.434	166	503836	101.71	ppb	97
68) 1,3-dichloropropane	11.745	76	570145	104.38	ppb	95
69) dibromochloromethane	12.036	129	578468	103.92	ppb	98
70) 1,2-dibromoethane	12.288	107	444467	105.26	ppb	93
71) 2-hexanone	11.880	43	316604	118.12	ppb	94
72) chlorobenzene	13.115	112	1301578	104.72	ppb	87
73) 1,1,1,2-tetrachloroethane	13.034	131	589276	104.25	ppb	97
74) ethylbenzene	13.290	91	1990584	104.53	ppb	93
75) m,p-xylene	13.475	106	1652526	212.35	ppb	88
76) o-xylene	13.888	106	927633	105.73	ppb	87
77) styrene	13.815	104	1278120	108.19	ppb	94
78) bromoform	13.642	173	356034	109.12	ppb	98
79) trans-1,4-dichloro-2-b...	14.042	53	123986	108.22	ppb	# 47
81) isopropylbenzene	14.251	105	2446010	100.36	ppb	96
83) bromobenzene	14.539	156	608508	103.90	ppb	# 74
84) 1,1,2,2-tetrachloroethane	13.894	83	558777	101.21	ppb	99
85) 1,2,3-trichloropropane	14.042	75	553721	104.41	ppb	99
86) n-propylbenzene	14.697	91	2518576	99.82	ppb	92
87) 2-chlorotoluene	14.814	91	1599951	101.63	ppb	84
88) 4-chlorotoluene	14.890	91	1472931	103.39	ppb	86
89) 1,3,5-trimethylbenzene	14.974	105	2224715	102.41	ppb	94
90) tert-butylbenzene	15.279	91	1257351	101.54	ppb	82
91) 1,2,4-trimethylbenzene	15.383	105	2312333	104.01	ppb	96
92) sec-butylbenzene	15.503	105	2951258	100.18	ppb	94

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26293.D
Acq On : 19 Feb 2015 5:20 pm
Operator : GaryK
Sample : ic1106-100
Misc : ms33880,msu1106,,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 20 11:08:17 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration

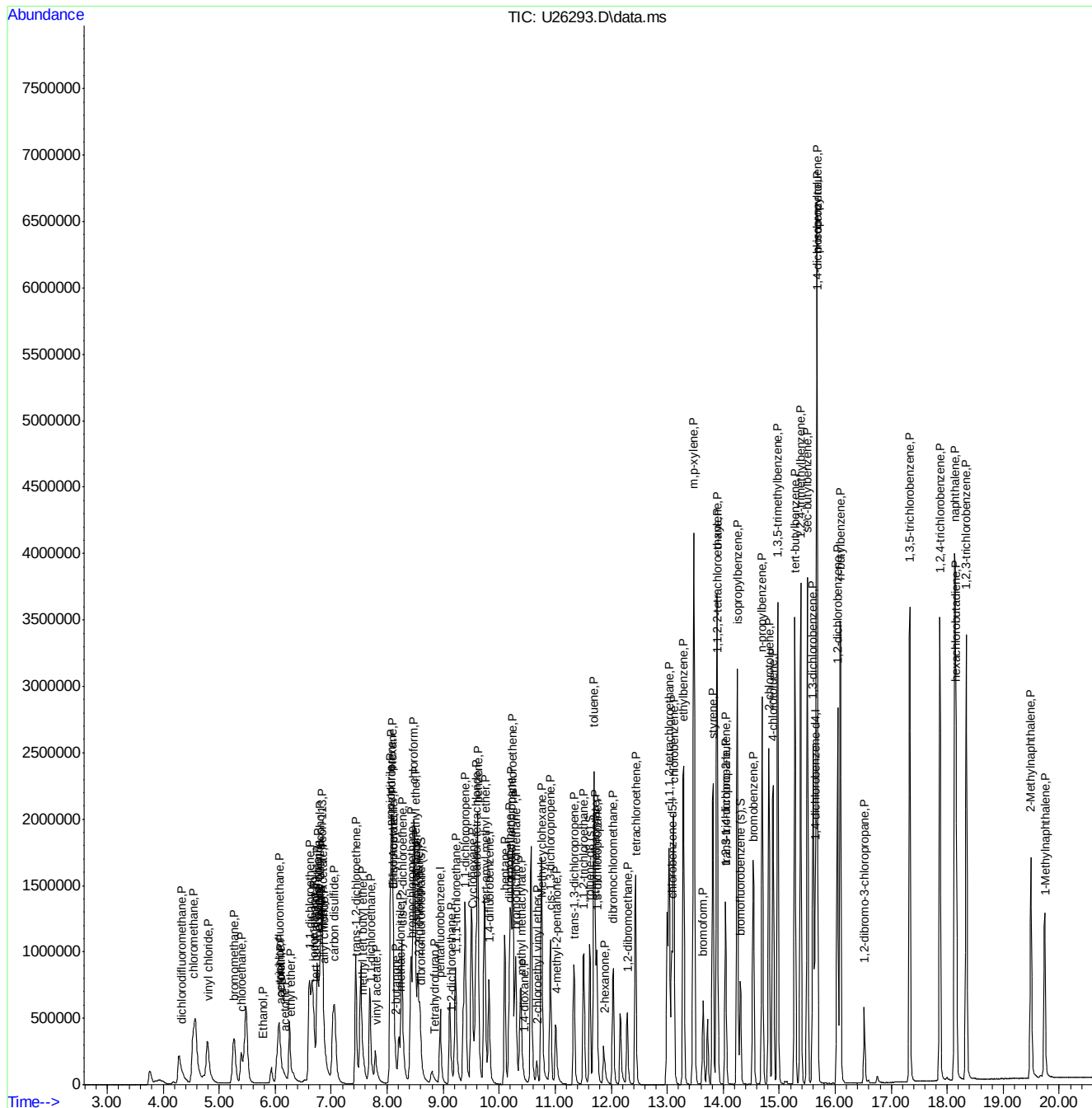
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.605	146	1229547	102.15	ppb	98
94) p-isopropyltoluene	15.675	119	2633158	101.61	ppb	94
95) 1,4-dichlorobenzene	15.672	146	1255976	101.42	ppb	100
96) 1,2-dichlorobenzene	16.040	146	1419831	103.60	ppb	97
97) n-butylbenzene	16.093	91	2171750	99.90	ppb	89
98) 1,2-dibromo-3-chloropr...	16.521	75	141200	106.10	ppb	71
99) 1,3,5-trichlorobenzene	17.332	180	1272839	96.75	ug/L	96
100) 1,2,4-trichlorobenzene	17.871	180	1244464	94.19	ppb	93
101) hexachlorobutadiene	18.160	225	453682	101.91	ppb	92
102) naphthalene	18.136	128	3510273	97.01	ppb	100
103) 2-Methylnaphthalene	19.498	142	1074538	49.10	ug/L	95
104) 1-Methylnaphthalene	19.746	142	825801	49.40	ug/L	96
105) 1,2,3-trichlorobenzene	18.343	180	1229228	93.71	ppb	94

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

7.6.7
7

(QT Reviewed)

Quant Time: Feb 20 11:08:17 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration



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7.6.8

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26294.D
 Acq On : 19 Feb 2015 5:47 pm
 Operator : GaryK
 Sample : ic1106-200
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 20 11:09:08 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.737	65	147111	500.00	ppb	0.00
4) pentafluorobenzene	8.955	168	509631	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.823	114	835530	50.00	ppb	0.00
66) chlorobenzene-d5	13.080	82	355155	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.644	152	430363	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.596	113	286528	49.46	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	98.92%		
60) toluene-d8 (s)	11.620	98	900489	53.58	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.16%		
82) bromofluorobenzene (s)	14.308	95	320186	52.28	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	104.56%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.803	59	844085m	2009.76	ppb	
3) Ethanol	5.778	45	458559	18552.95	ppb	96
5) dichlorodifluoromethane	4.324	85	1295005	201.29	ppb	97
6) chloromethane	4.562	50	1688886	205.24	ppb	96
7) vinyl chloride	4.813	62	1455442	202.50	ppb	99
8) bromomethane	5.285	96	1016182	207.54	ppb	98
9) chloroethane	5.411	64	645045	209.25	ppb	99
10) ethyl ether	6.274	59	771506	193.24	ppb	90
11) acetonitrile	6.097	41	89734m	147.16	ppb	
12) trichlorofluoromethane	6.086	101	2006487	211.64	ppb	99
13) freon-113	6.836	101	1493123	203.87	ppb	91
14) acrolein	6.113	56	29046	2184.09	ppb	92
15) 1,1-dichloroethene	6.630	96	1214559	199.33	ppb	# 78
16) acetone	6.211	58	94032m	311.26	ppb	
17) Methyl Acetate	6.861	43	1246549	193.68	ppb	# 64
18) methylene chloride	6.773	84	1192467	192.67	ppb	# 77
19) methyl tert butyl ether	7.555	73	2722806	197.21	ppb	95
20) acrylonitrile	6.752	53	395528	185.00	ppb	94
21) allyl chloride	6.860	41	1433291	175.88	ppb	90
22) trans-1,2-dichloroethene	7.449	96	1060021	198.00	ppb	# 77
23) iodomethane	6.687	142	2457414	195.60	ppb	100
24) carbon disulfide	7.062	76	4130842	199.22	ppb	98
25) propionitrile	8.063	54	87466	193.44	ppb	100
26) vinyl acetate	7.805	43	1116396	198.94	ppb	95
27) chloroprene	8.062	53	1525957	202.67	ppb	87
28) di-isopropyl ether	8.104	45	3201646	195.69	ppb	95
29) methacrylonitrile	8.233	41	594591	183.11	ppb	90
30) 2-butanone	8.155	72	130745m	174.42	ppb	
31) Ethyl Acetate	8.103	43	2811118	196.20	ug/L	# 57
32) Hexane	8.084	41	1497406	194.08	ppb	99
33) 1,1-dichloroethane	7.700	63	1740300	196.49	ppb	94
34) tert-butyl ethyl ether	8.504	59	3251040	199.99	ppb	88
35) isobutyl alcohol	8.513	43	560170	985.48	ppb	92
36) 2,2-dichloropropane	8.567	77	1211379	209.30	ppb	88

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26294.D
 Acq On : 19 Feb 2015 5:47 pm
 Operator : GaryK
 Sample : ic1106-200
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 20 11:09:08 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.269	96	1154151	193.37	ppb	# 80
38) bromochloromethane	8.440	128	691093	194.08	ppb	# 55
39) chloroform	8.474	83	1855490	197.71	ppb	92
41) Tetrahydrofuran	8.853	42	303424	188.65	ppb	92
42) 1,1,1-trichloroethane	9.232	97	1776655	212.14	ppb	95
44) Cyclohexane	9.520	56	2084182	202.06	ppb	# 84
45) carbon tetrachloride	9.593	117	1687919	208.99	ppb	98
46) 1,1-dichloropropene	9.396	75	1314882	198.58	ppb	88
47) benzene	9.620	78	3796580	198.95	ppb	97
48) 1,2-dichloroethane	9.140	62	1448040	196.17	ppb	96
49) tert-amyl methyl ether	9.747	73	2797906	195.51	ppb	94
50) heptane	10.098	43	1219497m	202.44	ppb	
51) trichloroethene	10.242	95	1182084	196.17	ppb	83
52) 1,2-dichloropropane	10.210	63	978581	209.14	ppb	96
53) dibromomethane	10.184	93	694662	193.86	ppb	89
54) bromodichloromethane	10.297	83	1469423	202.60	ppb	97
55) Methylcyclohexane	10.770	83	1896553	207.71	ppb	# 82
56) 2-chloroethyl vinyl ether	10.683	63	202844	201.98	ppb	87
57) methyl methacrylate	10.398	69	543490	222.37	ppb	83
58) 1,4-dioxane	10.442	88	16949	824.22	ppb	# 42
59) cis-1,3-dichloropropene	10.916	75	1486501	214.25	ppb	84
61) 4-methyl-2-pentanone	11.019	43	958135	204.04	ppb	97
62) toluene	11.693	92	2358231	218.45	ppb	98
63) trans-1,3-dichloropropene	11.337	75	1218293	224.23	ppb	93
64) 1,1,2-trichloroethane	11.511	83	711940	219.34	ppb	97
65) ethyl methacrylate	11.715	69	970461	230.31	ppb	95
67) tetrachloroethene	12.435	166	1122293	199.12	ppb	98
68) 1,3-dichloropropane	11.745	76	1248439	200.89	ppb	93
69) dibromochloromethane	12.036	129	1271324	200.74	ppb	97
70) 1,2-dibromoethane	12.288	107	965233	200.92	ppb	96
71) 2-hexanone	11.876	43	601694	197.30	ppb	94
72) chlorobenzene	13.115	112	2912247	205.93	ppb	87
73) 1,1,1,2-tetrachloroethane	13.035	131	1266609	196.95	ppb	97
74) ethylbenzene	13.290	91	4382637	202.27	ppb	93
75) m,p-xylene	13.475	106	3614833	408.26	ppb	88
76) o-xylene	13.888	106	1991344	199.48	ppb	90
77) styrene	13.815	104	2933357	218.25	ppb	94
78) bromoform	13.643	173	784629	211.36	ppb	100
79) trans-1,4-dichloro-2-b...	14.041	53	254902	195.56	ppb	# 50
81) isopropylbenzene	14.251	105	5228986	192.00	ppb	95
83) bromobenzene	14.538	156	1372059	209.66	ppb	# 80
84) 1,1,2,2-tetrachloroethane	13.894	83	1266086	205.22	ppb	99
85) 1,2,3-trichloropropane	14.042	75	1161898	196.07	ppb	99
86) n-propylbenzene	14.696	91	5469059	193.98	ppb	91
87) 2-chlorotoluene	14.815	91	3479179	197.78	ppb	84
88) 4-chlorotoluene	14.890	91	3340290	209.83	ppb	87
89) 1,3,5-trimethylbenzene	14.974	105	4929672	203.09	ppb	94
90) tert-butylbenzene	15.279	91	2870091	207.42	ppb	86
91) 1,2,4-trimethylbenzene	15.383	105	5085005	204.70	ppb	97
92) sec-butylbenzene	15.503	105	6669215	202.60	ppb	94

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26294.D
 Acq On : 19 Feb 2015 5:47 pm
 Operator : GaryK
 Sample : ic1106-200
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 20 11:09:08 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

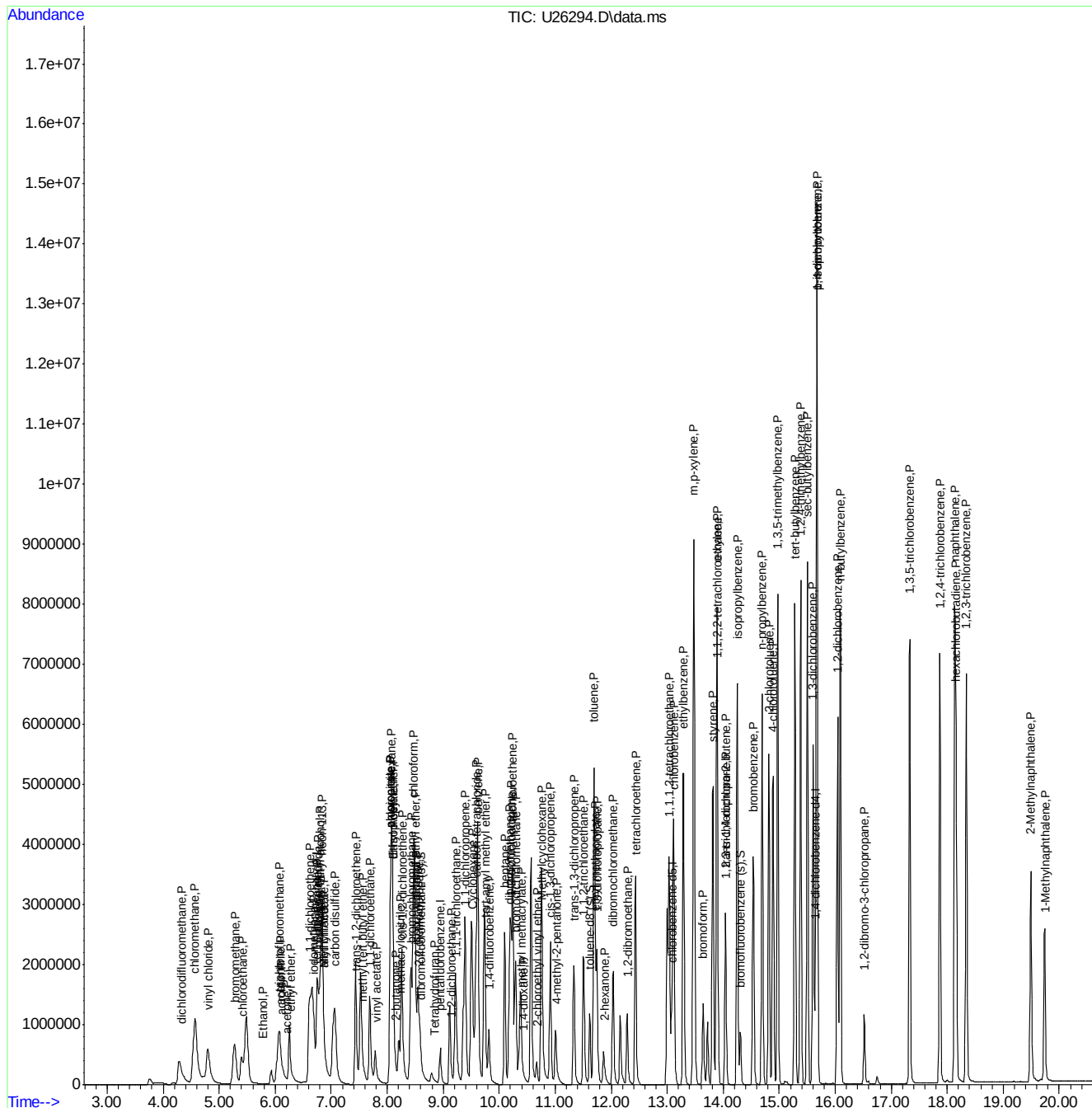
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.605	146	2692691	200.21	ppb	99
94) p-isopropyltoluene	15.675	119	5885514	203.26	ppb	96
95) 1,4-dichlorobenzene	15.672	146	2697899	194.96	ppb	99
96) 1,2-dichlorobenzene	16.040	146	3008767	196.47	ppb	97
97) n-butylbenzene	16.093	91	4857292	199.96	ppb	88
98) 1,2-dibromo-3-chloropr...	16.520	75	284006	190.98	ppb	75
99) 1,3,5-trichlorobenzene	17.332	180	2619741	178.20	ug/L	95
100) 1,2,4-trichlorobenzene	17.871	180	2528895	171.29	ppb	93
101) hexachlorobutadiene	18.160	225	1030934	207.25	ppb	93
102) naphthalene	18.135	128	6882583	170.22	ppb	100
103) 2-Methylnaphthalene	19.497	142	2229562	91.18	ug/L	97
104) 1-Methylnaphthalene	19.743	142	1689321	90.43	ug/L	96
105) 1,2,3-trichlorobenzene	18.343	180	2491912	170.02	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26294.D
Acq On : 19 Feb 2015 5:47 pm
Operator : GaryK
Sample : ic1106-200
Misc : ms33880,msu1106,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 20 11:09:08 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration



U150219w.m Fri Feb 20 11:38:25 2015

Page: 4

7.6.9

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26295.D
 Acq On : 19 Feb 2015 6:14 pm
 Operator : GaryK
 Sample : ic1106-400
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 20 11:09:38 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.534	65	190886m	500.00	ppb	-0.21
4) pentafluorobenzene	8.952	168	552876	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.821	114	926960	50.00	ppb	0.00
66) chlorobenzene-d5	13.079	82	444260	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.646	152	526399	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.592	113	289904	46.13	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.26%		
60) toluene-d8 (s)	11.618	98	1039319	55.74	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	111.48%		
82) bromofluorobenzene (s)	14.308	95	434881	58.05	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	116.10%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.669	59	2697332m	4949.52	ppb	
3) Ethanol	5.694	45	2064432m	64370.88	ppb	
5) dichlorodifluoromethane	4.316	85	2609538	373.88	ppb	97
6) chloromethane	4.561	50	3455050	387.03	ppb	97
7) vinyl chloride	4.806	62	2975310	381.58	ppb	99
8) bromomethane	5.281	96	2078693	391.34	ppb	97
9) chloroethane	5.408	64	1338914	400.37	ppb	98
10) ethyl ether	6.265	59	1657688	382.72	ppb	87
11) acetonitrile	6.077	41	360364m	544.74	ppb	
12) trichlorofluoromethane	6.082	101	4153339	403.83	ppb	98
13) freon-113	6.830	101	3132069	394.20	ppb	93
14) acrolein	6.033	56	31456	2180.30	ppb	89
15) 1,1-dichloroethene	6.628	96	2615875	395.74	ppb	# 78
16) acetone	6.158	58	277037m	845.31	ppb	
17) Methyl Acetate	6.801	43	2732243	391.31	ppb	# 89
18) methylene chloride	6.767	84	2589153	385.61	ppb	# 76
19) methyl tert butyl ether	7.544	73	5809174	387.85	ppb	96
20) acrylonitrile	6.677	53	868213	374.32	ppb	94
21) allyl chloride	6.855	41	2634140	297.96	ppb	86
22) trans-1,2-dichloroethene	7.443	96	2257221	388.65	ppb	# 76
23) iodomethane	6.683	142	5158286	378.46	ppb	98
24) carbon disulfide	7.060	76	8780945	390.35	ppb	98
25) propionitrile	8.062	54	176783	360.38	ppb	100
26) vinyl acetate	7.792	43	2380585	391.03	ppb	94
27) chloroprene	8.060	53	3257109	398.75	ppb	86
28) di-isopropyl ether	8.101	45	6798999	383.06	ppb	86
29) methacrylonitrile	8.215	41	1432039	406.51	ppb	90
30) 2-butanone	8.109	72	324820	399.42	ppb	# 1
31) Ethyl Acetate	8.097	43	6282832	404.20	ug/L	# 71
32) Hexane	8.084	41	3196386	381.88	ppb	97
33) 1,1-dichloroethane	7.696	63	3736163	388.83	ppb	95
34) tert-butyl ethyl ether	8.498	59	6968295	395.13	ppb	89
35) isobutyl alcohol	8.504	43	954807	1548.36	ppb	92
36) 2,2-dichloropropane	8.564	77	2374883	378.24	ppb	88

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
 Data File : U26295.D
 Acq On : 19 Feb 2015 6:14 pm
 Operator : GaryK
 Sample : ic1106-400
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 20 11:09:38 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 09:13:16 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.266	96	2496586	385.56	ppb	# 79
38) bromochloromethane	8.433	128	1473089	381.33	ppb	# 55
39) chloroform	8.471	83	4001609	393.04	ppb	95
41) Tetrahydrofuran	8.808	42	738543	423.27	ppb	89
42) 1,1,1-trichloroethane	9.230	97	3810299	419.37	ppb	96
44) Cyclohexane	9.519	56	4550721	397.67	ppb	# 85
45) carbon tetrachloride	9.593	117	3688785	411.68	ppb	97
46) 1,1-dichloropropene	9.394	75	2853127	388.39	ppb	89
47) benzene	9.618	78	8312069	392.61	ppb	98
48) 1,2-dichloroethane	9.120	62	2856822	348.85	ppb	96
49) tert-amyl methyl ether	9.743	73	6114881	385.15	ppb	95
50) heptane	10.098	43	2702101m	404.32	ppb	
51) trichloroethene	10.240	95	2679786	400.86	ppb	84
52) 1,2-dichloropropane	10.207	63	2223328	428.29	ppb	97
53) dibromomethane	10.181	93	1573407	395.77	ppb	93
54) bromodichloromethane	10.295	83	3305552	410.80	ppb	96
55) Methylcyclohexane	10.771	83	4245916	419.15	ppb	# 83
56) 2-chloroethyl vinyl ether	10.668	63	323367	290.23	ppb	89
57) methyl methacrylate	10.388	69	1349122	497.55	ppb	86
58) 1,4-dioxane	10.417	88	69507	3046.69	ppb	# 56
59) cis-1,3-dichloropropene	10.913	75	3438888	446.76	ppb	86
61) 4-methyl-2-pentanone	11.006	43	2434704	467.34	ppb	96
62) toluene	11.691	92	5445968	454.72	ppb	99
63) trans-1,3-dichloropropene	11.334	75	2918616	484.20	ppb	93
64) 1,1,2-trichloroethane	11.507	83	1711841	475.39	ppb	97
65) ethyl methacrylate	11.710	69	2520208	539.10	ppb	83
67) tetrachloroethene	12.433	166	2653697	376.40	ppb	95
68) 1,3-dichloropropane	11.743	76	3070800	395.03	ppb	93
69) dibromochloromethane	12.034	129	3025823	381.94	ppb	98
70) 1,2-dibromoethane	12.285	107	2375517	395.30	ppb	96
71) 2-hexanone	11.863	43	1669538	437.66	ppb	94
72) chlorobenzene	13.114	112	7122726	402.65	ppb	90
73) 1,1,1,2-tetrachloroethane	13.035	131	3004169	373.43	ppb	96
74) ethylbenzene	13.289	91	10842141	400.03	ppb	91
75) m,p-xylene	13.475	106	8874216	801.24	ppb	81
76) o-xylene	13.889	106	4938422	395.48	ppb	89
77) styrene	13.815	104	7636473	454.21	ppb	98
78) bromoform	13.642	173	2083130	448.60	ppb	100
79) trans-1,4-dichloro-2-b...	14.040	53	671510	411.84	ppb	# 49
81) isopropylbenzene	14.252	105	12790969	383.98	ppb	90
83) bromobenzene	14.539	156	3616058	451.76	ppb	# 82
84) 1,1,2,2-tetrachloroethane	13.896	83	2782818	368.78	ppb	100
85) 1,2,3-trichloropropane	14.041	75	3080557	425.01	ppb	99
86) n-propylbenzene	14.698	91	13643750	395.64	ppb	85
87) 2-chlorotoluene	14.816	91	9035600	419.93	ppb	86
88) 4-chlorotoluene	14.891	91	8920383	458.12	ppb	88
89) 1,3,5-trimethylbenzene	14.975	105	11715562	394.60	ppb	91
90) tert-butylbenzene	15.281	91	7141675	421.97	ppb	99
91) 1,2,4-trimethylbenzene	15.386	105	11682736	384.50	ppb	95
92) sec-butylbenzene	15.506	105	14412977	357.97	ppb	88

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26295.D
Acq On : 19 Feb 2015 6:14 pm
Operator : GaryK
Sample : ic1106-400
Misc : ms33880,msu1106,,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 20 11:09:38 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration

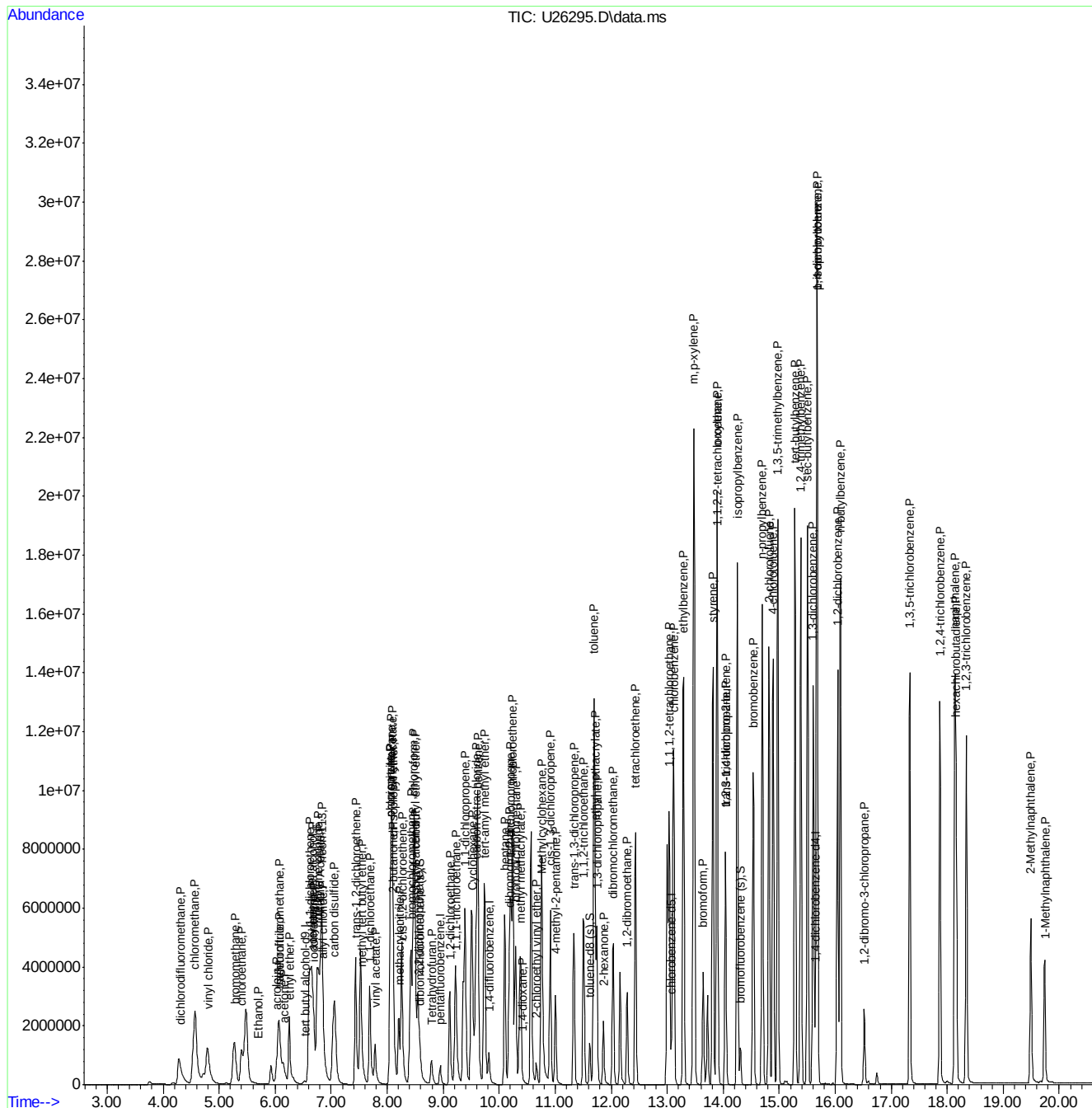
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.607	146	6542566	397.70	ppb	99
94) p-isopropyltoluene	15.677	119	12003429	338.92	ppb	95
95) 1,4-dichlorobenzene	15.674	146	6001563	354.58	ppb	97
96) 1,2-dichlorobenzene	16.042	146	6693122	357.33	ppb	95
97) n-butylbenzene	16.093	91	10402679	350.12	ppb	88
98) 1,2-dibromo-3-chloropr...	16.520	75	634582	348.88	ppb	75
99) 1,3,5-trichlorobenzene	17.333	180	4817369	267.91	ug/L	95
100) 1,2,4-trichlorobenzene	17.871	180	4544374	251.65	ppb	92
101) hexachlorobutadiene	18.161	225	1884884	309.79	ppb	95
102) naphthalene	18.136	128	11877478	240.17	ppb	100
103) 2-Methylnaphthalene	19.497	142	3637979	121.64	ug/L	97
104) 1-Methylnaphthalene	19.743	142	2747484	120.25	ug/L	96
105) 1,2,3-trichlorobenzene	18.343	180	4287498	239.16	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150219\
Data File : U26295.D
Acq On : 19 Feb 2015 6:14 pm
Operator : GaryK
Sample : ic1106-400
Misc : ms33880,msu1106,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 20 11:09:38 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 09:13:16 2015
Response via : Initial Calibration



U150219w.m Fri Feb 20 11:38:31 2015

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Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150220\
 Data File : U26307.D
 Acq On : 20 Feb 2015 12:07 pm
 Operator : GaryK
 Sample : bs
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 13:08:30 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.749	65	100497	500.00	ppb	0.00
4) pentafluorobenzene	8.960	168	418104	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.827	114	667814	50.00	ppb	0.00
66) chlorobenzene-d5	13.080	82	263315	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.644	152	337616	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.601	113	265415	55.48	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	110.96%		
60) toluene-d8 (s)	11.622	98	685087	50.94	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.88%		
82) bromofluorobenzene (s)	14.309	95	225966	47.63	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.26%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.810	59	132655m	443.84	ppb	
3) Ethanol	5.733	45	72195	4335.54	ppb	95
5) dichlorodifluoromethane	4.313	85	421437	78.55	ppb	97
6) chloromethane	4.536	50	453524	62.55	ppb	98
7) vinyl chloride	4.789	62	408918	67.37	ppb	97
8) bromomethane	5.266	96	261951	61.47	ppb	96
9) chloroethane	5.407	64	154500	60.44	ppb	96
10) ethyl ether	6.288	59	174106	51.82	ppb	86
11) acetonitrile	6.104	41	23018m	43.83	ppb	
12) trichlorofluoromethane	6.073	101	508282	65.66	ppb	98
13) freon-113	6.830	101	325773	53.77	ppb	91
15) 1,1-dichloroethene	6.627	96	248832	46.08	ppb	# 78
16) acetone	6.184	58	15722m	40.03	ppb	
17) Methyl Acetate	6.879	43	211530	35.50	ppb	# 70
18) methylene chloride	6.775	84	283581	52.30	ppb	# 77
19) methyl tert butyl ether	7.567	73	626820	51.56	ppb	99
20) acrylonitrile	6.774	53	90727	50.46	ppb	89
21) allyl chloride	6.864	41	385189	58.35	ppb	90
22) trans-1,2-dichloroethene	7.455	96	259606	52.90	ppb	# 76
23) iodomethane	6.683	142	558706	53.89	ppb	99
24) carbon disulfide	7.048	76	814917	47.43	ppb	98
25) propionitrile	8.068	54	18064	50.59	ppb	100
26) vinyl acetate	7.820	43	407108	86.21	ppb	97
27) chloroprene	8.069	53	309972	49.28	ppb	88
28) di-isopropyl ether	8.111	45	751663	54.63	ppb	92
29) methacrylonitrile	8.249	41	141198m	50.99	ppb	
30) 2-butanone	8.141	72	30026m	52.00	ppb	
31) Ethyl Acetate	8.115	43	657073	53.36	ug/L	# 64
32) Hexane	8.092	41	323173	50.83	ppb	# 55
33) 1,1-dichloroethane	7.705	63	391884	50.25	ppb	94
34) tert-butyl ethyl ether	8.510	59	717472	52.27	ppb	88
35) isobutyl alcohol	8.526	43	125020	250.71	ppb	# 1
36) 2,2-dichloropropane	8.566	77	308811	62.13	ppb	88
37) cis-1,2-dichloroethene	8.275	96	295021	54.40	ppb	# 76

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150220\
 Data File : U26307.D
 Acq On : 20 Feb 2015 12:07 pm
 Operator : GaryK
 Sample : bs
 Misc : ms33880,msu1106,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 13:08:30 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.447	128	165760	53.65	ppb	# 69
39) chloroform	8.479	83	442421	53.44	ppb	98
41) Tetrahydrofuran	8.866	42	64855	45.10	ppb	94
42) 1,1,1-trichloroethane	9.231	97	391529	54.06	ppb	96
44) Cyclohexane	9.519	56	434548	52.28	ppb	# 83
45) carbon tetrachloride	9.593	117	358520	53.01	ppb	95
46) 1,1-dichloropropene	9.400	75	262375	48.73	ppb	89
47) benzene	9.624	78	818213	50.70	ppb	97
48) 1,2-dichloroethane	9.144	62	325903	51.80	ppb	95
49) tert-amyl methyl ether	9.752	73	621560	52.07	ppb	95
50) heptane	10.107	43	270180	55.50	ppb	# 32
51) trichloroethene	10.244	95	264831	53.36	ppb	81
52) 1,2-dichloropropane	10.213	63	198631	49.79	ppb	97
53) dibromomethane	10.190	93	143391	47.85	ppb	86
54) bromodichloromethane	10.301	83	299705	49.50	ppb	96
55) Methylcyclohexane	10.766	83	399500	53.88	ppb	# 83
56) 2-chloroethyl vinyl ether	10.694	63	45431	64.51	ppb	90
57) methyl methacrylate	10.415	69	88170	43.28	ppb	81
59) cis-1,3-dichloropropene	10.921	75	290325	50.72	ppb	84
61) 4-methyl-2-pentanone	11.039	43	211931	51.53	ppb	92
62) toluene	11.695	92	443071	48.53	ppb	94
63) trans-1,3-dichloropropene	11.343	75	209620	47.15	ppb	93
64) 1,1,2-trichloroethane	11.515	83	128481	47.09	ppb	97
65) ethyl methacrylate	11.728	69	175339	48.27	ppb	# 17
67) tetrachloroethene	12.436	166	205445	46.65	ppb	96
68) 1,3-dichloropropane	11.749	76	225392	47.65	ppb	93
69) dibromochloromethane	12.039	129	227718	46.35	ppb	98
70) 1,2-dibromoethane	12.292	107	171182	44.75	ppb	98
71) 2-hexanone	11.899	43	174490m	65.79	ppb	
72) chlorobenzene	13.117	112	493674	43.15	ppb	87
73) 1,1,1,2-tetrachloroethane	13.036	131	277343	55.08	ppb	96
74) ethylbenzene	13.292	91	857934	49.47	ppb	94
75) m,p-xylene	13.476	106	690957	98.63	ppb	90
76) o-xylene	13.889	106	397711	50.24	ppb	92
77) styrene	13.817	104	514982	46.63	ppb	92
78) bromoform	13.645	173	133223	43.88	ppb	97
79) trans-1,4-dichloro-2-b...	14.046	53	50063	48.92	ppb	# 49
81) isopropylbenzene	14.252	105	1076562	52.27	ppb	96
83) bromobenzene	14.540	156	248528	47.24	ppb	# 78
84) 1,1,2,2-tetrachloroethane	13.896	83	227428	46.64	ppb	98
85) 1,2,3-trichloropropane	14.046	75	229604	47.74	ppb	98
86) n-propylbenzene	14.698	91	1082391	49.97	ppb	91
87) 2-chlorotoluene	14.815	91	689236	50.03	ppb	83
88) 4-chlorotoluene	14.892	91	605969	47.01	ppb	88
89) 1,3,5-trimethylbenzene	14.975	105	1060588	57.33	ppb	94
90) tert-butylbenzene	15.279	91	535642	52.09	ppb	83
91) 1,2,4-trimethylbenzene	15.383	105	1040006	53.81	ppb	98
92) sec-butylbenzene	15.503	105	1318155	53.72	ppb	95
93) 1,3-dichlorobenzene	15.605	146	520343	47.64	ppb	97
94) p-isopropyltoluene	15.676	119	1243179	57.01	ppb	94

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150220\
 Data File : U26307.D
 Acq On : 20 Feb 2015 12:07 pm
 Operator : GaryK
 Sample : bs
 Misc : ms33880,msu1106,,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 13:08:30 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

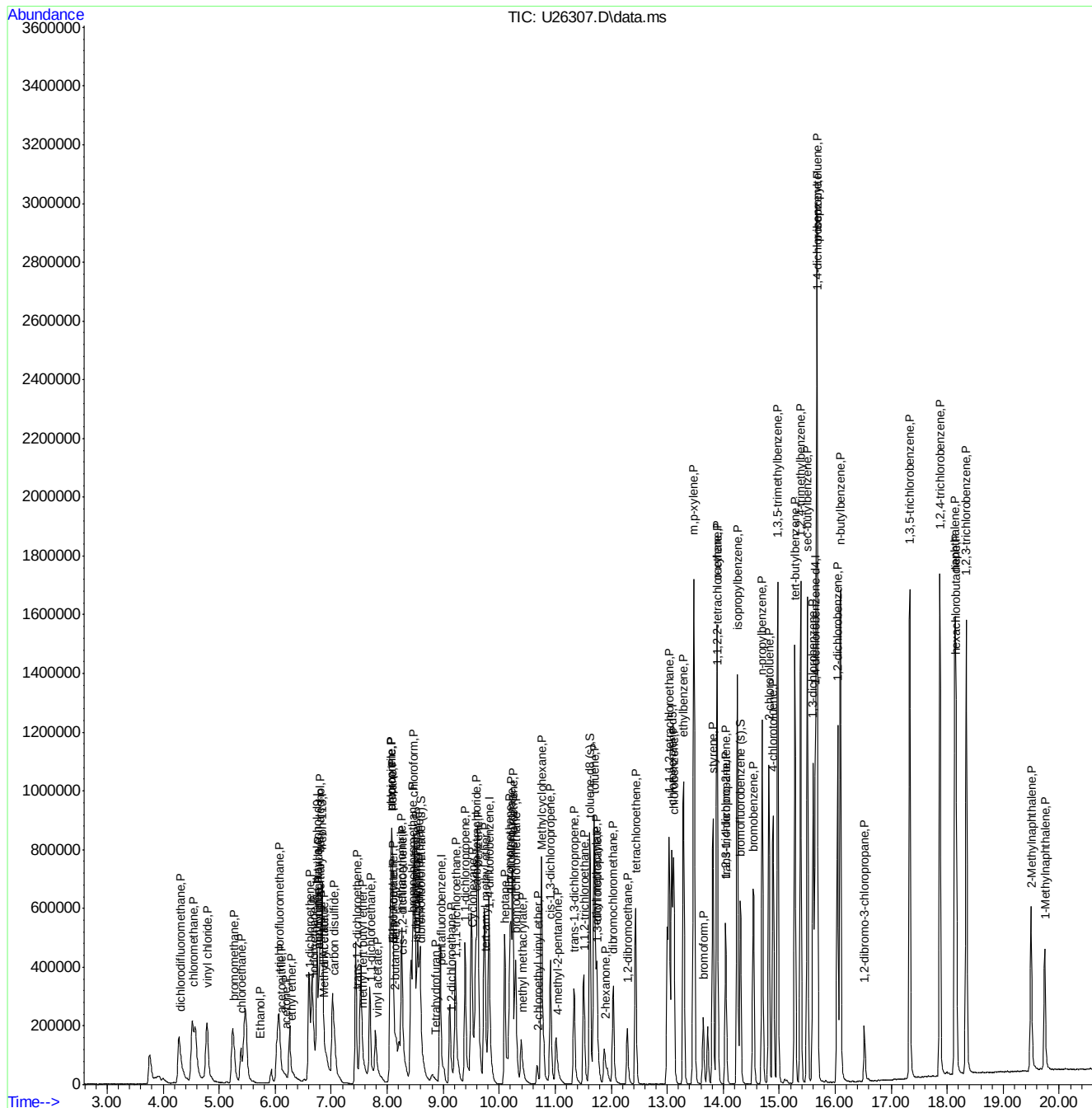
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.673	146	533410	46.95	ppb	99
96) 1,2-dichlorobenzene	16.041	146	614171	49.36	ppb	97
97) n-butylbenzene	16.096	91	1082311	57.66	ppb	89
98) 1,2-dibromo-3-chloropr...	16.525	75	52679	39.58	ppb #	72
99) 1,3,5-trichlorobenzene	17.333	180	600586	54.66	ug/L	98
100) 1,2,4-trichlorobenzene	17.872	180	615845	50.20	ppb	93
101) hexachlorobutadiene	18.160	225	217931	57.80	ppb	93
102) naphthalene	18.137	128	1310712	43.84	ppb	100
103) 2-Methylnaphthalene	19.502	142	369197	20.73	ug/L	96
104) 1-Methylnaphthalene	19.748	142	279149	20.49	ug/L	96
105) 1,2,3-trichlorobenzene	18.343	180	574851	52.93	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150220\
Data File : U26307.D
Acq On : 20 Feb 2015 12:07 pm
Operator : GaryK
Sample : bs
Misc : ms33880,msu1106,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 13:08:30 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



U150219w.m Fri Feb 20 14:29:03 2015

Page: 4

7.6.11

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150223\
 Data File : U26338.D
 Acq On : 23 Feb 2015 9:23 am
 Operator : GaryK
 Sample : bs
 Misc : ms33891,msu1107,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 23 09:59:28 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.651	65	242458	500.00	ppb	-0.09
4) pentafluorobenzene	8.954	168	498512	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.822	114	805843	50.00	ppb	0.00
66) chlorobenzene-d5	13.078	82	330302	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.643	152	371483	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.593	113	263121	46.13	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.26%		
60) toluene-d8 (s)	11.619	98	825292	50.85	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.70%		
82) bromofluorobenzene (s)	14.308	95	276775	53.02	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.04%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.729	59	357560m	495.87	ppb	
3) Ethanol	5.648	45	258707	6439.63	ppb	94
5) dichlorodifluoromethane	4.322	85	356676	55.75	ppb	94
6) chloromethane	4.552	50	482241	55.78	ppb	99
7) vinyl chloride	4.808	62	413849	57.18	ppb	100
8) bromomethane	5.284	96	279295	54.97	ppb	97
9) chloroethane	5.409	64	172274	56.52	ppb	94
10) ethyl ether	6.270	59	207035	51.68	ppb	90
11) acetone	6.070	41	36169m	59.54	ppb	
12) trichlorofluoromethane	6.077	101	550201m	59.61	ppb	
13) freon-113	6.844	101	370629	51.31	ppb	92
15) 1,1-dichloroethene	6.638	96	322191	50.04	ppb	# 79
16) acetone	6.151	58	28424m	60.69	ppb	
17) Methyl Acetate	6.826	43	301017	42.37	ppb	# 79
18) methylene chloride	6.775	84	337211	52.16	ppb	# 80
19) methyl tert butyl ether	7.548	73	729408	50.32	ppb	95
20) acrylonitrile	6.705	53	114711	53.51	ppb	100
21) allyl chloride	6.860	41	434631	55.22	ppb	91
22) trans-1,2-dichloroethene	7.446	96	270110	46.17	ppb	# 78
23) iodomethane	6.691	142	654829	52.98	ppb	99
24) carbon disulfide	7.070	76	1061274	51.81	ppb	97
25) propionitrile	8.061	54	20424	47.97	ppb	100
26) vinyl acetate	7.802	43	539093	95.74	ppb	96
27) chloroprene	8.062	53	356209	47.49	ppb	88
28) di-isopropyl ether	8.103	45	865332	52.75	ppb	86
29) methacrylonitrile	8.223	41	183995	55.73	ppb	93
30) 2-butanone	8.107	72	40366m	58.63	ppb	
31) Ethyl Acetate	8.105	43	866800	59.04	ug/L	# 81
32) Hexane	8.085	41	409082	53.97	ppb	# 78
33) 1,1-dichloroethane	7.699	63	428461	46.08	ppb	96
34) tert-butyl ethyl ether	8.500	59	829684	50.69	ppb	89
35) isobutyl alcohol	8.497	43	147097m	247.15	ppb	
36) 2,2-dichloropropane	8.566	77	293650	49.55	ppb	88
37) cis-1,2-dichloroethene	8.268	96	310103	47.96	ppb	# 80

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150223\
 Data File : U26338.D
 Acq On : 23 Feb 2015 9:23 am
 Operator : GaryK
 Sample : bs
 Misc : ms33891,msu1107,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 23 09:59:28 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.434	128	172319	46.78	ppb	# 58
39) chloroform	8.471	83	465195	47.12	ppb	97
41) Tetrahydrofuran	8.820	42	100156m	58.42	ppb	
42) 1,1,1-trichloroethane	9.232	97	434406	50.30	ppb	97
44) Cyclohexane	9.521	56	510546	50.91	ppb	86
45) carbon tetrachloride	9.593	117	405132	49.64	ppb	97
46) 1,1-dichloropropene	9.396	75	308854	47.54	ppb	89
47) benzene	9.619	78	945785	48.56	ppb	97
48) 1,2-dichloroethane	9.122	62	347614	45.79	ppb	95
49) tert-amyl methyl ether	9.745	73	731661	50.80	ppb	95
50) heptane	10.098	43	350306m	59.64	ppb	
51) trichloroethene	10.241	95	315895	52.75	ppb	81
52) 1,2-dichloropropane	10.208	63	243154	50.51	ppb	98
53) dibromomethane	10.183	93	178524	49.36	ppb	88
54) bromodichloromethane	10.295	83	359619	49.22	ppb	97
55) Methylcyclohexane	10.769	83	460907	51.52	ppb	# 83
56) 2-chloroethyl vinyl ether	10.676	63	65336m	76.88	ppb	
57) methyl methacrylate	10.400	69	141023	57.36	ppb	86
59) cis-1,3-dichloropropene	10.916	75	383743	55.55	ppb	86
61) 4-methyl-2-pentanone	11.019	43	290955	58.62	ppb	96
62) toluene	11.692	92	551390	50.05	ppb	98
63) trans-1,3-dichloropropene	11.337	75	306950	57.22	ppb	92
64) 1,1,2-trichloroethane	11.510	83	176282	53.54	ppb	96
65) ethyl methacrylate	11.719	69	254037	57.95	ppb	96
67) tetrachloroethene	12.434	166	256520	46.43	ppb	96
68) 1,3-dichloropropane	11.744	76	321446	54.17	ppb	94
69) dibromochloromethane	12.034	129	301370	48.90	ppb	99
70) 1,2-dibromoethane	12.287	107	239526	49.92	ppb	96
71) 2-hexanone	11.873	43	197789m	59.45	ppb	
72) chlorobenzene	13.115	112	638744	44.51	ppb	87
73) 1,1,1,2-tetrachloroethane	13.034	131	297399	47.08	ppb	96
74) ethylbenzene	13.290	91	1023705	47.05	ppb	92
75) m,p-xylene	13.475	106	819722	93.28	ppb	88
76) o-xylene	13.887	106	440603	44.37	ppb	90
77) styrene	13.815	104	641631	46.31	ppb	92
78) bromoform	13.642	173	179501	47.14	ppb	100
79) trans-1,4-dichloro-2-b...	14.043	53	63987	49.84	ppb	# 35
81) isopropylbenzene	14.251	105	1169024	51.59	ppb	95
83) bromobenzene	14.539	156	302654	52.28	ppb	# 78
84) 1,1,2,2-tetrachloroethane	13.893	83	275580	51.36	ppb	98
85) 1,2,3-trichloropropane	14.042	75	306830	57.98	ppb	98
86) n-propylbenzene	14.697	91	1210475	50.79	ppb	91
87) 2-chlorotoluene	14.814	91	758266	50.02	ppb	87
88) 4-chlorotoluene	14.891	91	723391	51.00	ppb	88
89) 1,3,5-trimethylbenzene	14.974	105	1111272	54.60	ppb	94
90) tert-butylbenzene	15.278	91	599185	52.96	ppb	84
91) 1,2,4-trimethylbenzene	15.383	105	1091217	51.31	ppb	98
92) sec-butylbenzene	15.502	105	1400178	51.86	ppb	95
93) 1,3-dichlorobenzene	15.605	146	574471	47.80	ppb	99
94) p-isopropyltoluene	15.676	119	1270519	52.96	ppb	95

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150223\
Data File : U26338.D
Acq On : 23 Feb 2015 9:23 am
Operator : GaryK
Sample : bs
Misc : ms33891,msu1107,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 23 09:59:28 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

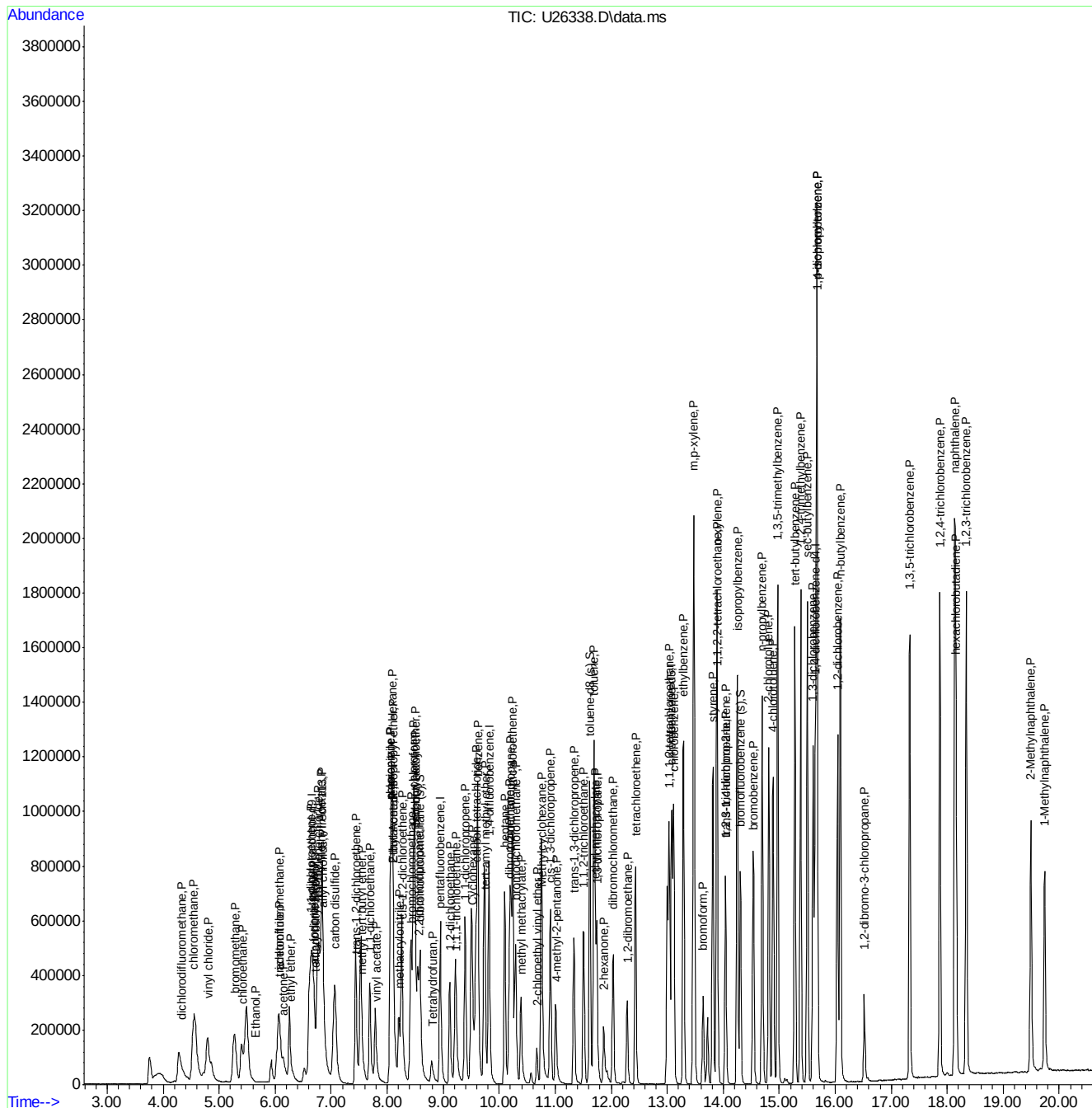
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.672	146	600177	48.01	ppb	100
96) 1,2-dichlorobenzene	16.040	146	649099	47.41	ppb	97
97) n-butylbenzene	16.094	91	1096669	53.10	ppb	90
98) 1,2-dibromo-3-chloropr...	16.522	75	82167	56.11	ppb	77
99) 1,3,5-trichlorobenzene	17.332	180	582409	48.18	ug/L	96
100) 1,2,4-trichlorobenzene	17.871	180	630744	46.73	ppb	93
101) hexachlorobutadiene	18.159	225	230017	55.44	ppb	96
102) naphthalene	18.136	128	1797510	54.64	ppb	100
103) 2-Methylnaphthalene	19.497	142	581040m	29.66	ug/L	
104) 1-Methylnaphthalene	19.739	142	465759m	31.07	ug/L	
105) 1,2,3-trichlorobenzene	18.342	180	649832	54.38	ppb	95

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

Quantitation Report (QT Reviewed)

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Data Path   : D:\msdchem\1\data\U150223\  
Data File  : U26338.D  
Acq On     : 23 Feb 2015    9:23 am  
Operator   : GaryK  
Sample     : bs  
Misc       : ms33891,msu1107,,,,,5,1  
ALS Vial   : 3      Sample Multiplier: 1
```

Quant Time: Feb 23 09:59:28 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



U150219w.m Mon Feb 23 10:48:36 2015

Page: 4

7.6.12



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26570.D
 Acq On : 9 Mar 2015 9:51 am
 Operator : GaryK
 Sample : bs
 Misc : ms33941,msu1116,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:50:52 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.655	65	224025	500.00	ppb	-0.09
4) pentafluorobenzene	8.954	168	500816	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.822	114	799073	50.00	ppb	0.00
66) chlorobenzene-d5	13.077	82	321433	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.643	152	354739	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.592	113	264985	46.25	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.50%		
60) toluene-d8 (s)	11.619	98	821688	51.06	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	102.12%		
82) bromofluorobenzene (s)	14.307	95	269492	54.06	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.12%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.689	59	271489m	407.48	ppb	
3) Ethanol	5.658	45	231464	6235.57	ppb	89
5) dichlorodifluoromethane	4.341	85	450820	70.15	ppb	98
6) chloromethane	4.565	50	526108	60.57	ppb	99
7) vinyl chloride	4.831	62	436361	60.02	ppb	98
8) bromomethane	5.302	96	292082	57.22	ppb	97
9) chloroethane	5.470	64	185312	60.52	ppb	73
10) ethyl ether	6.272	59	202568	50.34	ppb	85
11) acetonitrile	6.057	41	26243m	41.54	ppb	
12) trichlorofluoromethane	6.205	101	516701m	55.73	ppb	
13) freon-113	6.978	101	219936m	30.31	ppb	
15) 1,1-dichloroethene	6.783	96	289600m	44.77	ppb	
16) acetone	6.164	58	43073m	91.55	ppb	
17) Methyl Acetate	6.828	43	283678	39.74	ppb	# 63
18) methylene chloride	6.834	84	326874	50.33	ppb	89
19) methyl tert butyl ether	7.548	73	689050	47.31	ppb	94
20) acrylonitrile	6.705	53	98814	45.88	ppb	93
21) allyl chloride	6.905	41	423785	53.60	ppb	95
22) trans-1,2-dichloroethene	7.467	96	264649	45.02	ppb	# 75
23) iodomethane	6.763	142	604138	48.65	ppb	99
24) carbon disulfide	7.138	76	907083	44.08	ppb	91
25) propionitrile	8.061	54	19394	45.35	ppb	100
26) vinyl acetate	7.801	43	539762	95.42	ppb	95
27) chloroprene	8.062	53	348979	46.31	ppb	89
28) di-isopropyl ether	8.103	45	833208	50.56	ppb	79
29) methacrylonitrile	8.224	41	178187	53.72	ppb	93
30) 2-butanone	8.114	72	47243m	68.30	ppb	
31) Ethyl Acetate	8.106	43	876358	59.42	ug/L	# 87
32) Hexane	8.084	41	396912	52.12	ppb	# 76
33) 1,1-dichloroethane	7.703	63	420697	45.03	ppb	96
34) tert-butyl ethyl ether	8.501	59	795119	48.36	ppb	90
35) isobutyl alcohol	8.524	43	173857	294.54	ppb	# 62
36) 2,2-dichloropropane	8.574	77	238754	40.10	ppb	96
37) cis-1,2-dichloroethene	8.267	96	299201	46.06	ppb	# 80

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26570.D
 Acq On : 9 Mar 2015 9:51 am
 Operator : GaryK
 Sample : bs
 Misc : ms33941,msu1116,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:50:52 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.433	128	165083	44.61	ppb	# 57
39) chloroform	8.472	83	462596	46.64	ppb	98
41) Tetrahydrofuran	8.827	42	94057	54.61	ppb	96
42) 1,1,1-trichloroethane	9.245	97	337817	38.94	ppb	96
44) Cyclohexane	9.542	56	310840	31.26	ppb	# 81
45) carbon tetrachloride	9.602	117	324682	40.12	ppb	94
46) 1,1-dichloropropene	9.396	75	307227	47.69	ppb	87
47) benzene	9.619	78	927718	48.04	ppb	98
48) 1,2-dichloroethane	9.129	62	369410	49.07	ppb	95
49) tert-amyl methyl ether	9.745	73	711349	49.81	ppb	96
50) heptane	10.098	43	347791m	59.71	ppb	
51) trichloroethene	10.241	95	303441	51.10	ppb	79
52) 1,2-dichloropropane	10.208	63	239425	50.16	ppb	98
53) dibromomethane	10.182	93	175028	48.81	ppb	90
54) bromodichloromethane	10.295	83	359810	49.66	ppb	96
55) Methylcyclohexane	10.766	83	341532	38.50	ppb	# 83
56) 2-chloroethyl vinyl ether	10.680	63	64029	75.98	ppb	86
57) methyl methacrylate	10.399	69	135019	55.39	ppb	86
59) cis-1,3-dichloropropene	10.916	75	380347	55.53	ppb	87
61) 4-methyl-2-pentanone	11.020	43	296649	60.28	ppb	94
62) toluene	11.691	92	547551	50.12	ppb	98
63) trans-1,3-dichloropropene	11.337	75	301540	56.68	ppb	92
64) 1,1,2-trichloroethane	11.509	83	170944	52.36	ppb	97
65) ethyl methacrylate	11.718	69	242251	55.73	ppb	99
67) tetrachloroethene	12.434	166	253956	47.23	ppb	96
68) 1,3-dichloropropane	11.744	76	315233	54.59	ppb	93
69) dibromochloromethane	12.034	129	295772	49.32	ppb	96
70) 1,2-dibromoethane	12.286	107	232570	49.80	ppb	99
71) 2-hexanone	11.883	43	261430	80.74	ppb	93
72) chlorobenzene	13.114	112	616263	44.13	ppb	88
73) 1,1,1,2-tetrachloroethane	13.033	131	287121	46.71	ppb	98
74) ethylbenzene	13.290	91	999412	47.20	ppb	95
75) m,p-xylene	13.474	106	796994	93.20	ppb	89
76) o-xylene	13.887	106	422400	43.71	ppb	89
77) styrene	13.815	104	611325	45.34	ppb	95
78) bromoform	13.641	173	171929	46.39	ppb	99
79) trans-1,4-dichloro-2-b...	14.043	53	58270	46.64	ppb	# 44
81) isopropylbenzene	14.251	105	1125341	52.00	ppb	95
83) bromobenzene	14.539	156	284496	51.46	ppb	# 78
84) 1,1,2,2-tetrachloroethane	13.893	83	272142	53.12	ppb	99
85) 1,2,3-trichloropropane	14.042	75	281171	55.64	ppb	99
86) n-propylbenzene	14.696	91	1174968	51.63	ppb	93
87) 2-chlorotoluene	14.814	91	733089	50.64	ppb	88
88) 4-chlorotoluene	14.890	91	696784	51.45	ppb	89
89) 1,3,5-trimethylbenzene	14.973	105	1072527	55.18	ppb	93
90) tert-butylbenzene	15.278	91	587456	54.38	ppb	84
91) 1,2,4-trimethylbenzene	15.382	105	1047301	51.57	ppb	97
92) sec-butylbenzene	15.502	105	1366060	52.98	ppb	95
93) 1,3-dichlorobenzene	15.604	146	550937	48.01	ppb	99
94) p-isopropyltoluene	15.675	119	1234806	53.90	ppb	95

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
 Data File : U26570.D
 Acq On : 9 Mar 2015 9:51 am
 Operator : GaryK
 Sample : bs
 Misc : ms33941,msu1116,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:50:52 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.671	146	572005	47.92	ppb	99
96) 1,2-dichlorobenzene	16.040	146	617448	47.23	ppb	97
97) n-butylbenzene	16.094	91	1064009	53.95	ppb	91
98) 1,2-dibromo-3-chloropr...	16.521	75	77677	55.55	ppb	83
99) 1,3,5-trichlorobenzene	17.332	180	574538	49.77	ug/L	96
100) 1,2,4-trichlorobenzene	17.869	180	619724	48.08	ppb	94
101) hexachlorobutadiene	18.158	225	236946	59.81	ppb	94
102) naphthalene	18.135	128	1742295	55.47	ppb	100
103) 2-Methylnaphthalene	19.497	142	592296	31.66	ug/L	95
104) 1-Methylnaphthalene	19.744	142	484409	33.84	ug/L	97
105) 1,2,3-trichlorobenzene	18.341	180	631124	55.30	ppb	95

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

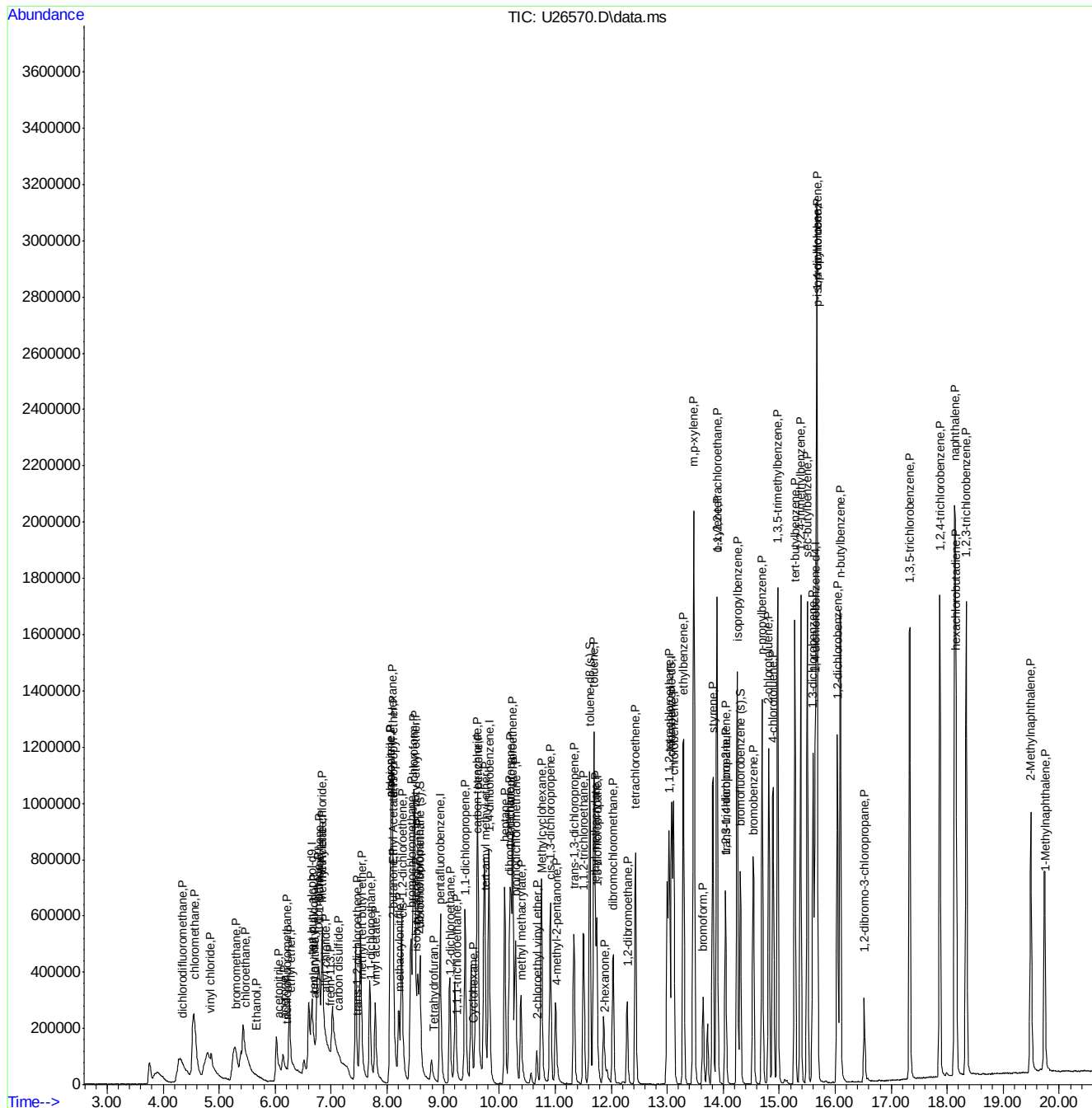
7.6.13

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,5,1
ALS Vial : 3 Sample Multiplier: 1

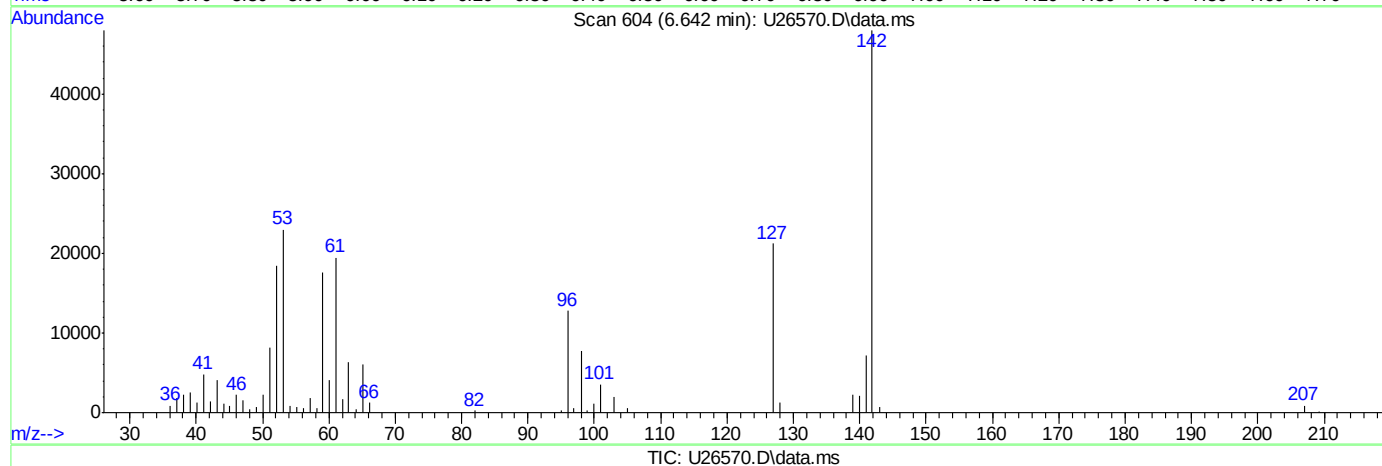
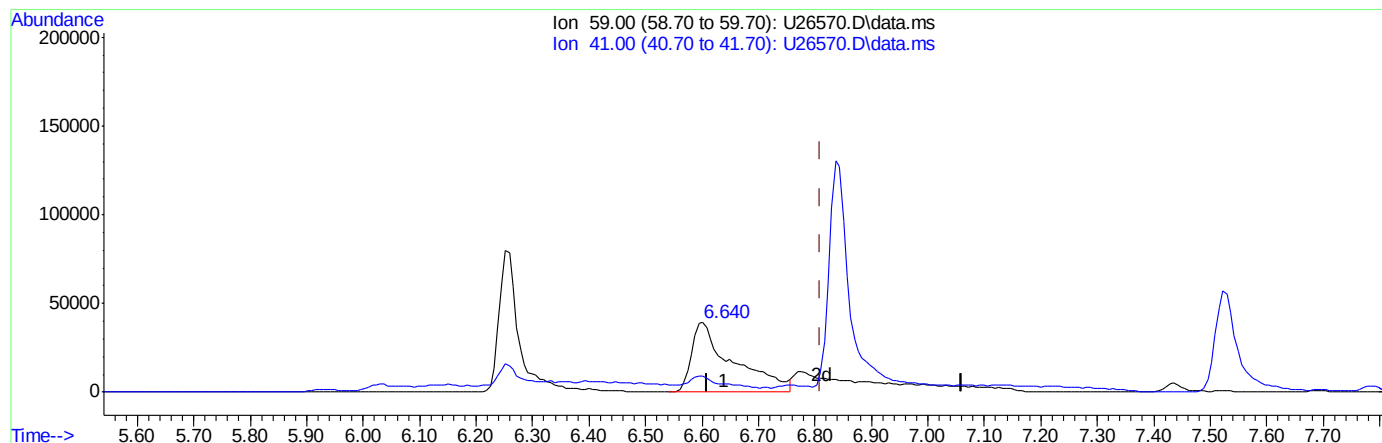
Quant Time: Mar 09 10:50:52 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.640min (-0.170) 299.88ppb

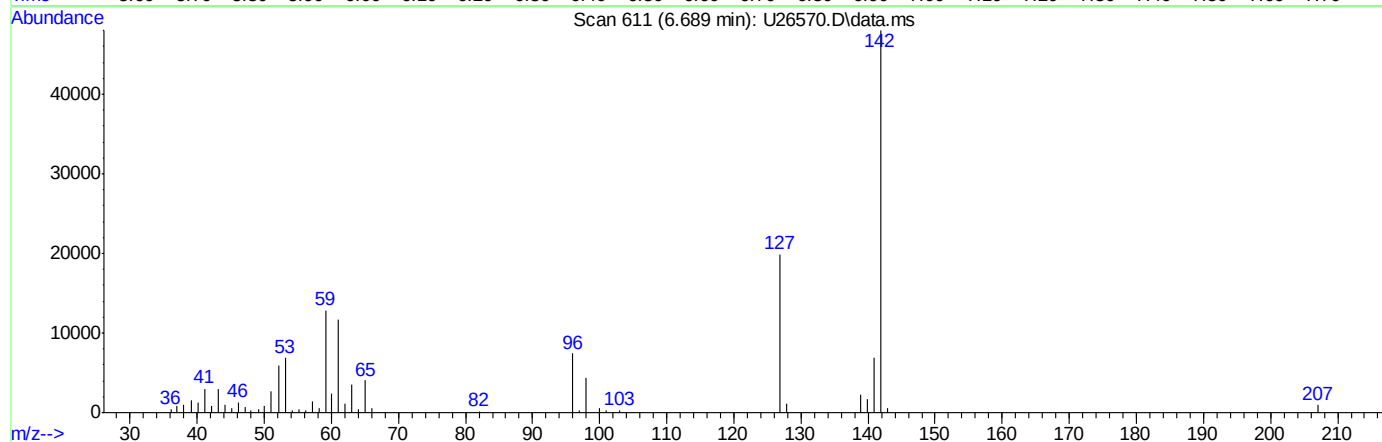
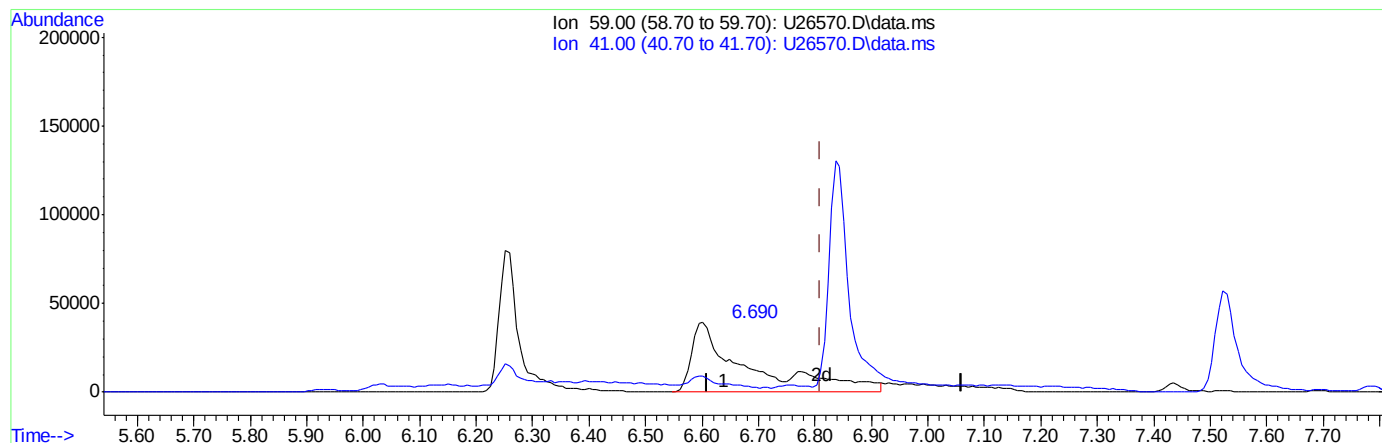
response 199799

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	5.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(2) tertiary butyl alcohol (P)

6.689min (-0.121) 407.48ppb m

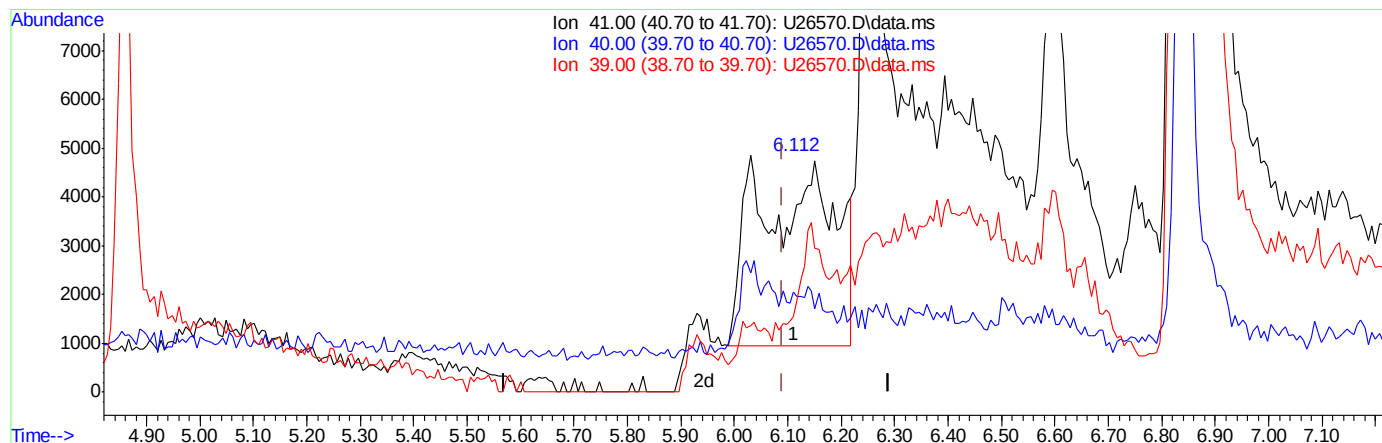
response 271489

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	23.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(11) acetonitrile (P)

6.112min (+0.022) 59.80ppb

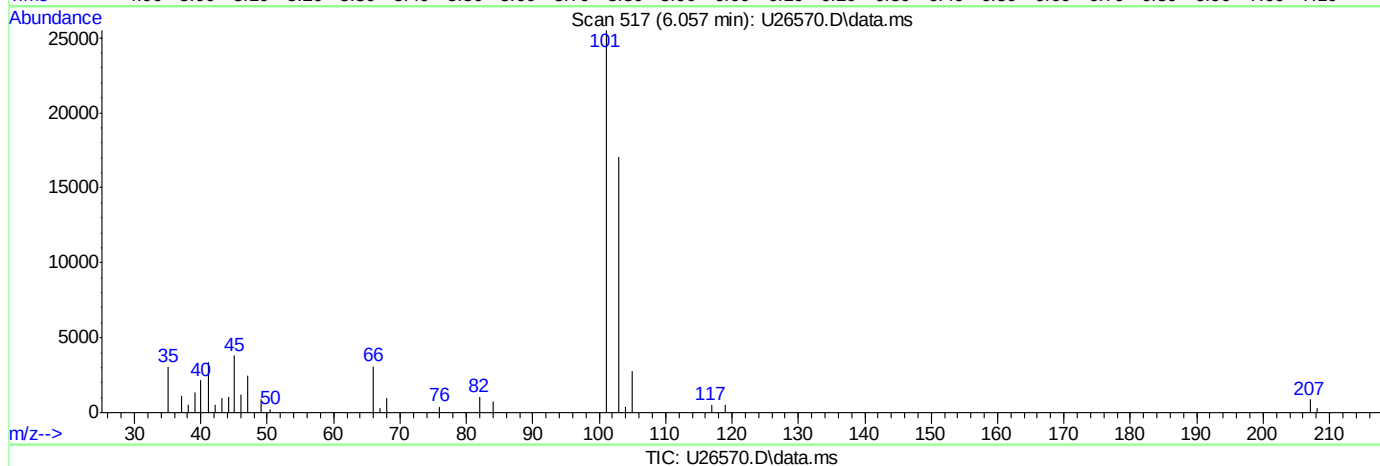
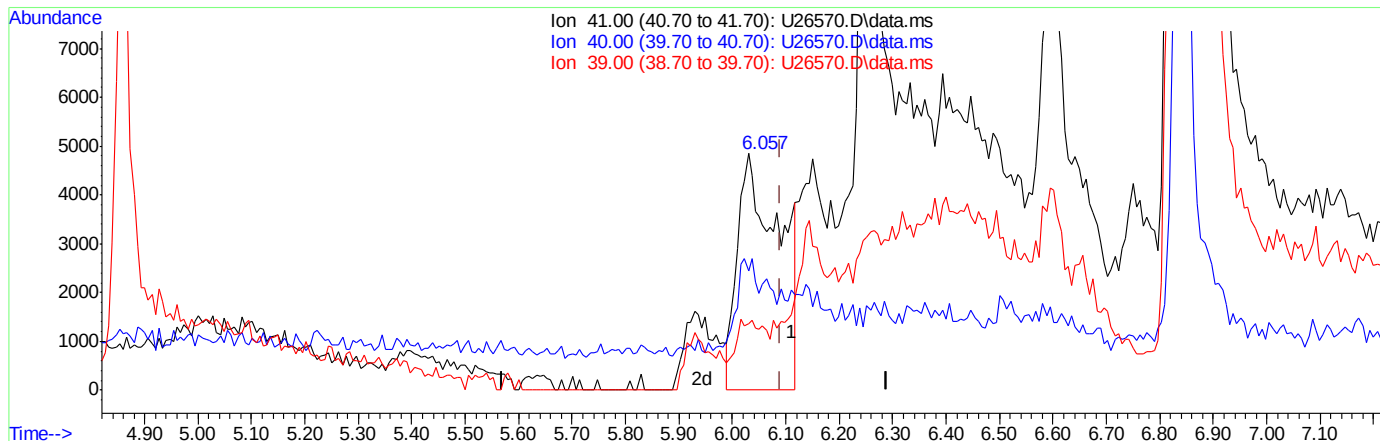
response 36476

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	41.48#
39.00	24.50	38.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(11) acetonitrile (P)

6.057min (-0.033) 41.54ppb m

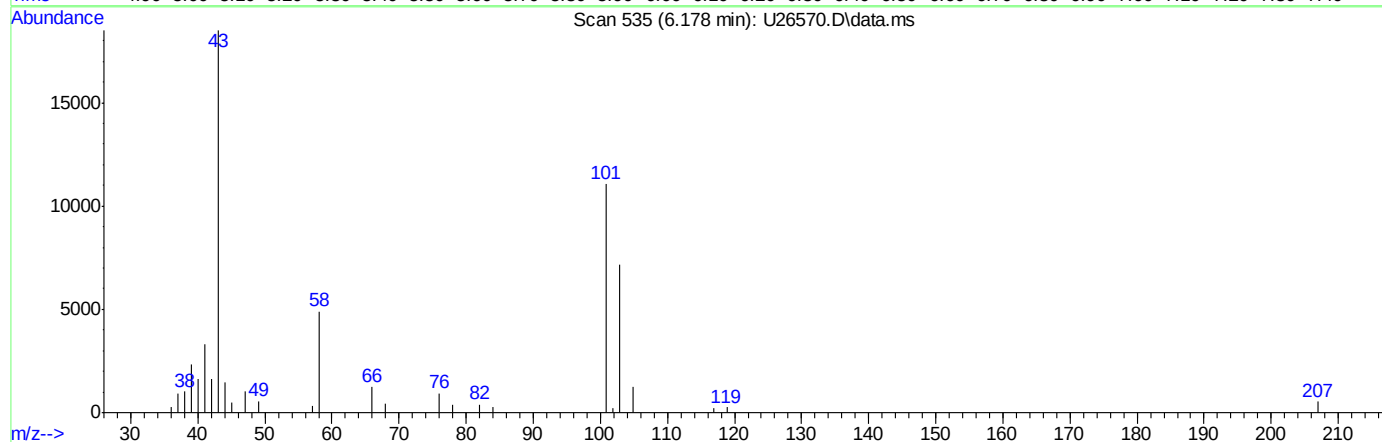
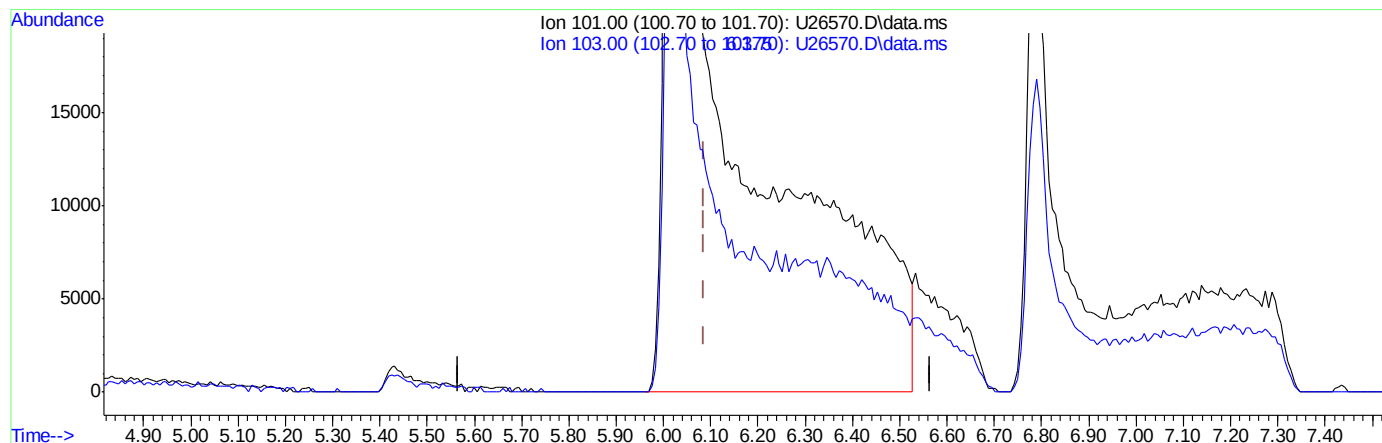
response 26243

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	63.95
39.00	24.50	39.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.175min (+0.089) 51.79ppb

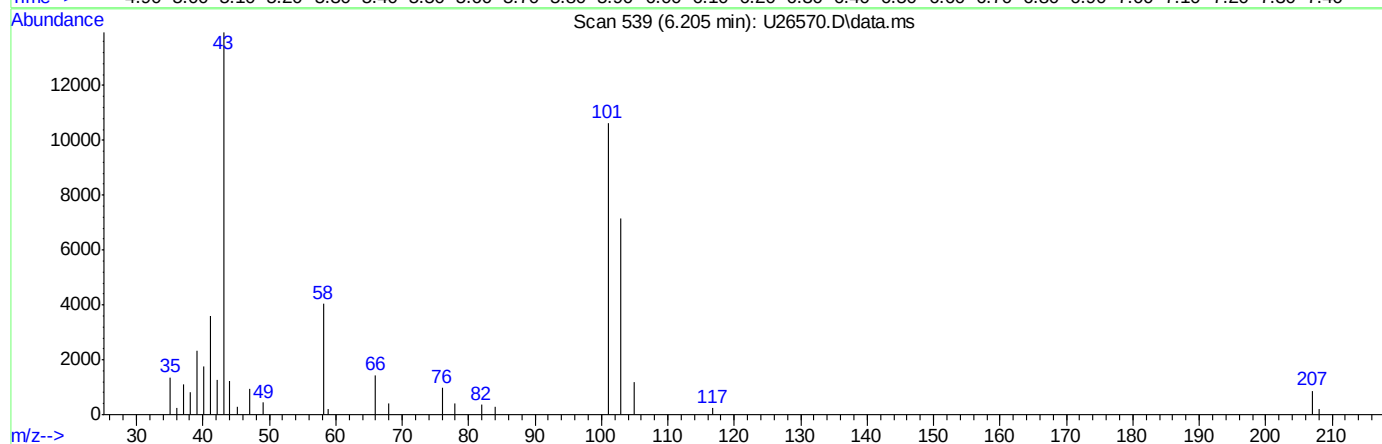
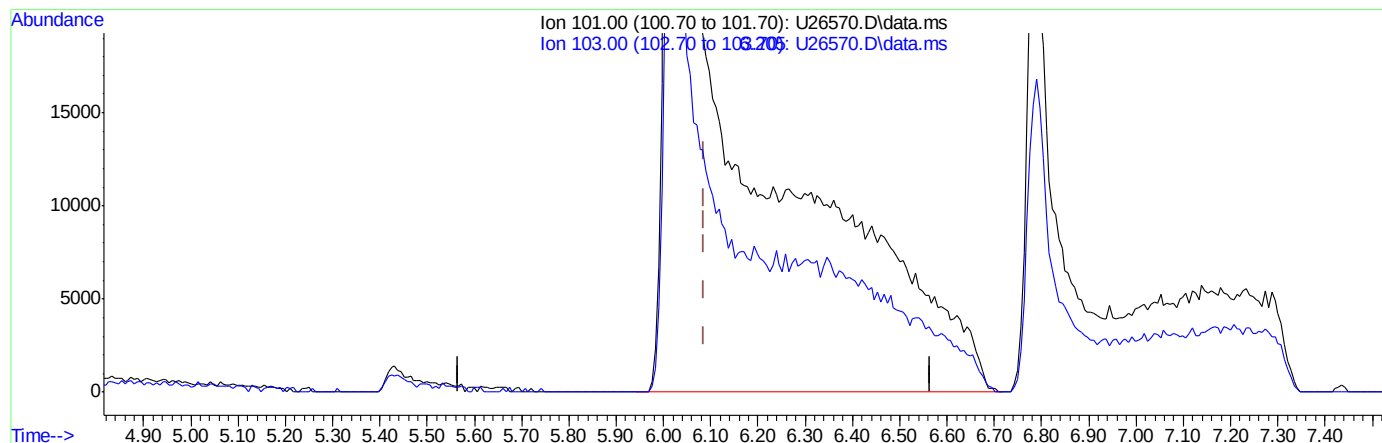
response 480220

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	64.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.205min (+0.119) 55.73ppb m

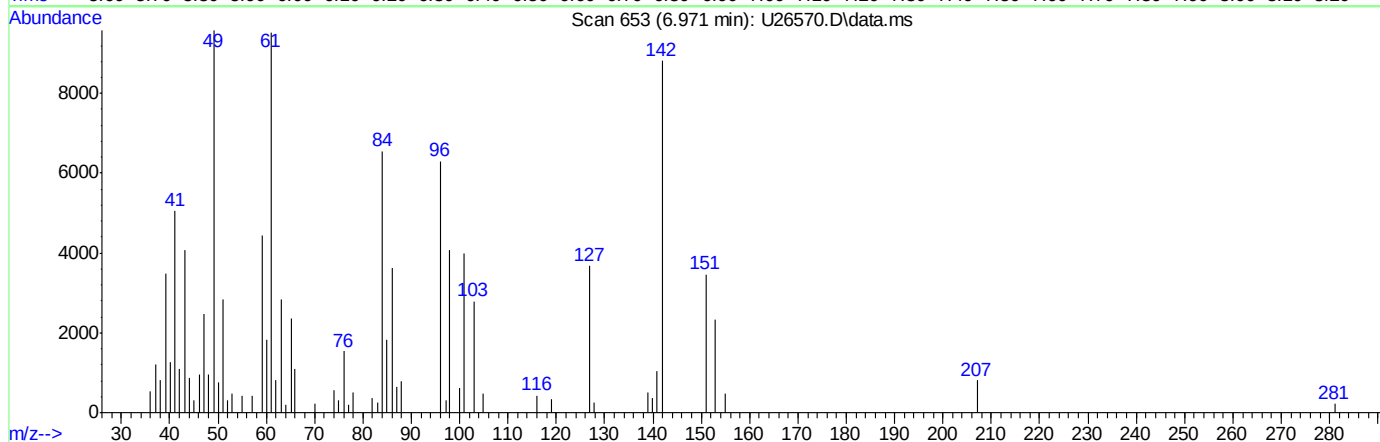
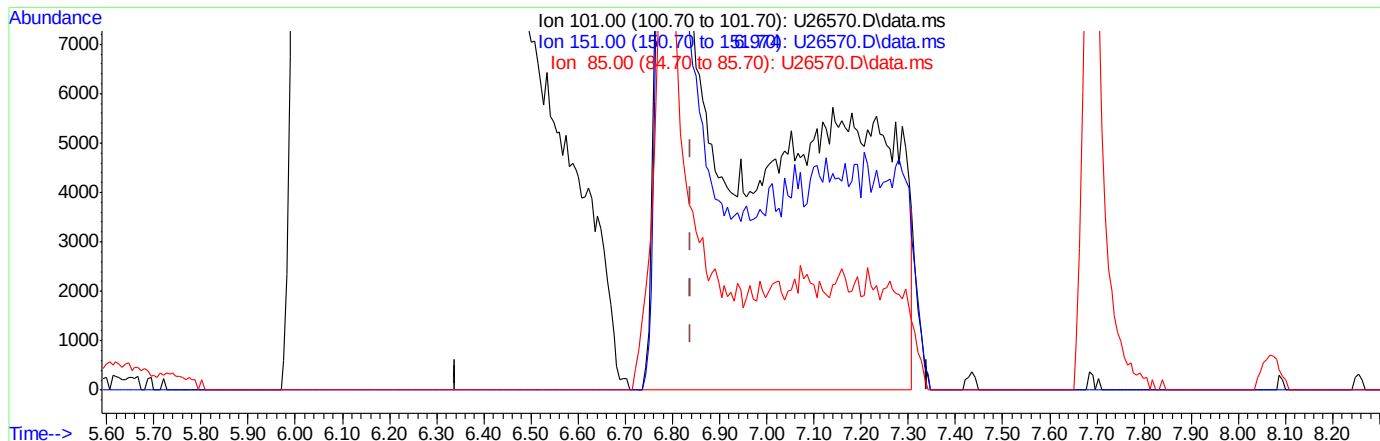
response 516701

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	67.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.974min (+0.134) 29.97ppb

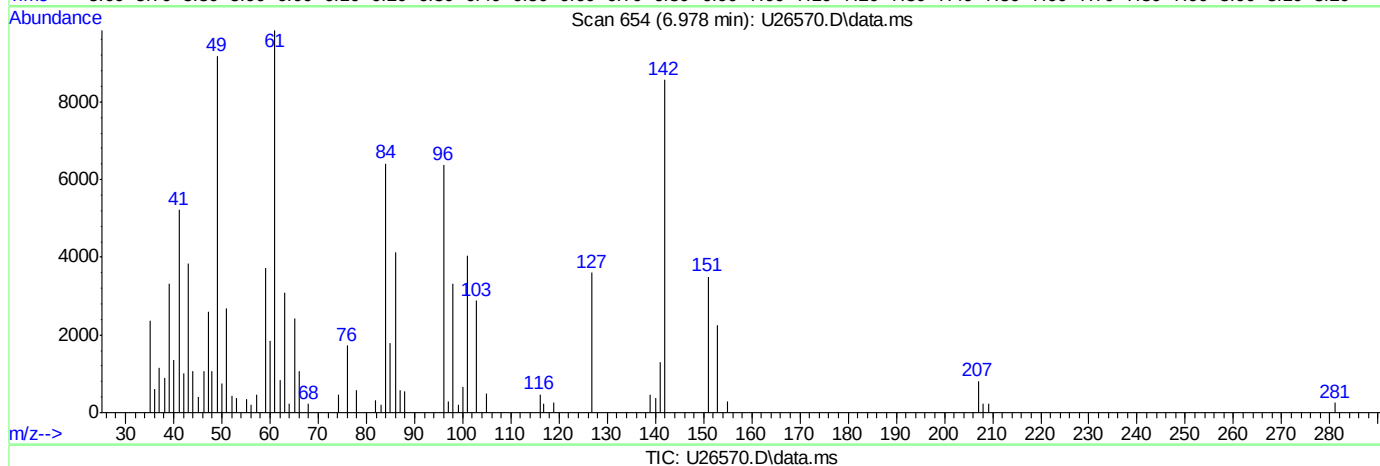
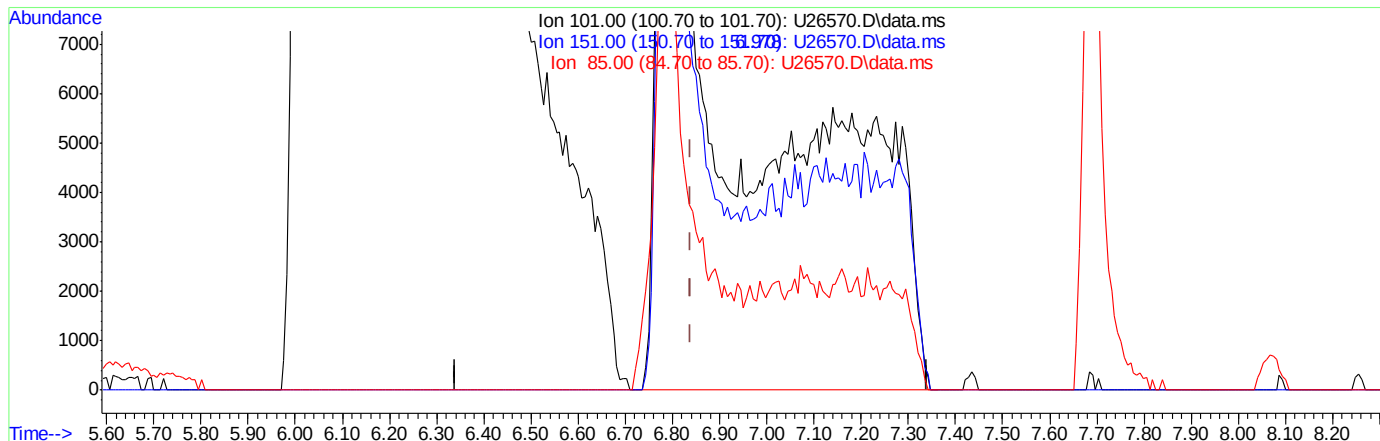
response 217484

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	86.99
85.00	45.00	25.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.978min (+0.138) 30.31ppb m

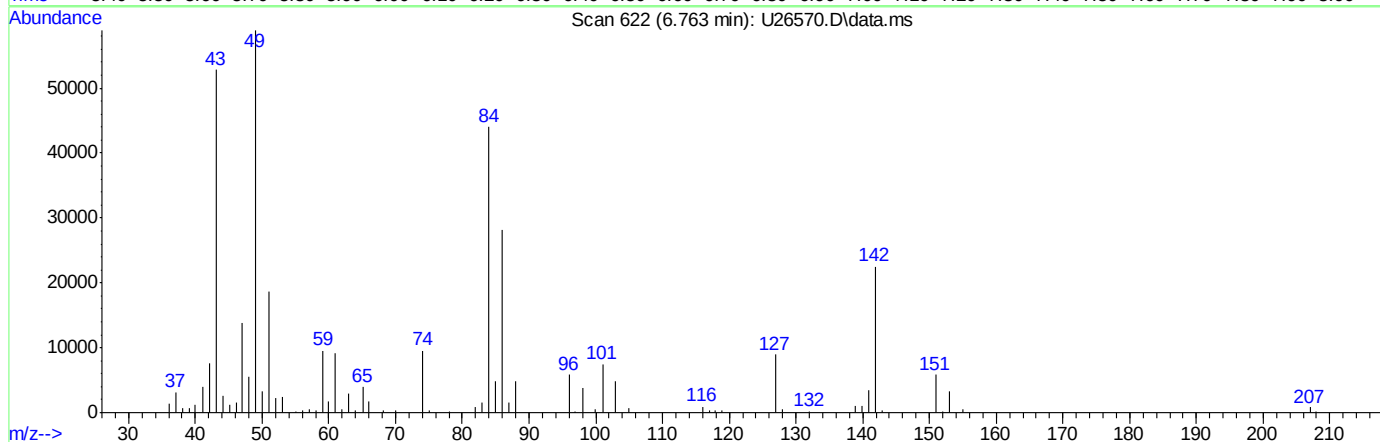
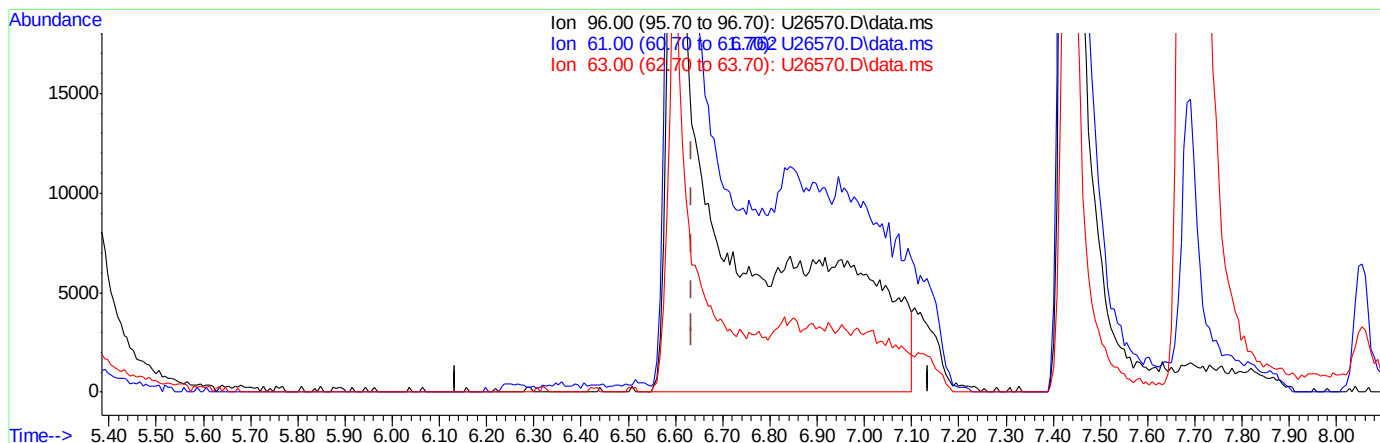
response 219936

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	86.26
85.00	45.00	44.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(15) 1,1-dichloroethene (P)

6.762min (+0.127) 42.52ppb

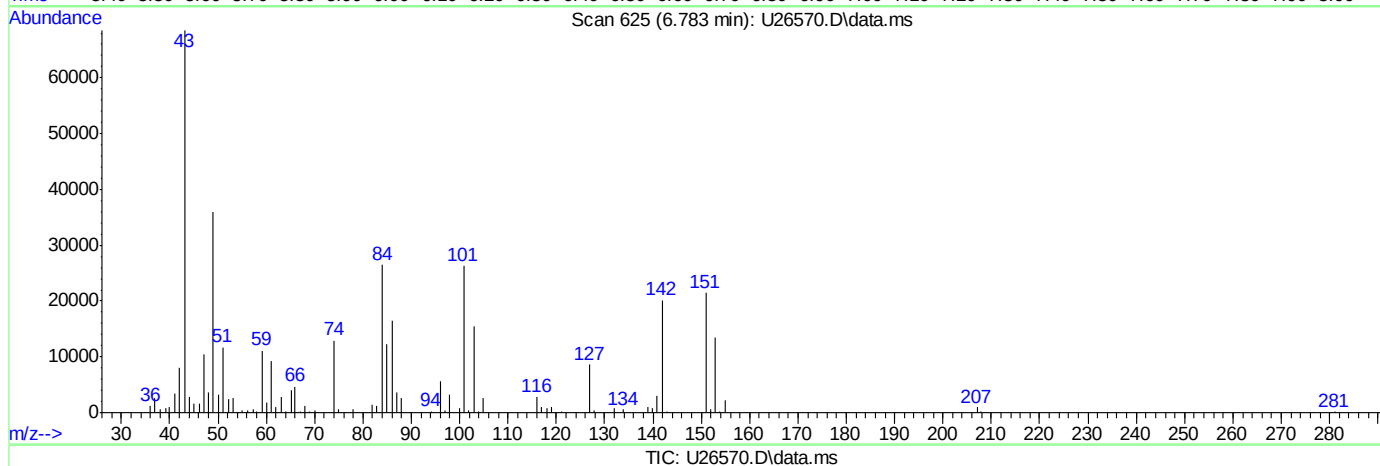
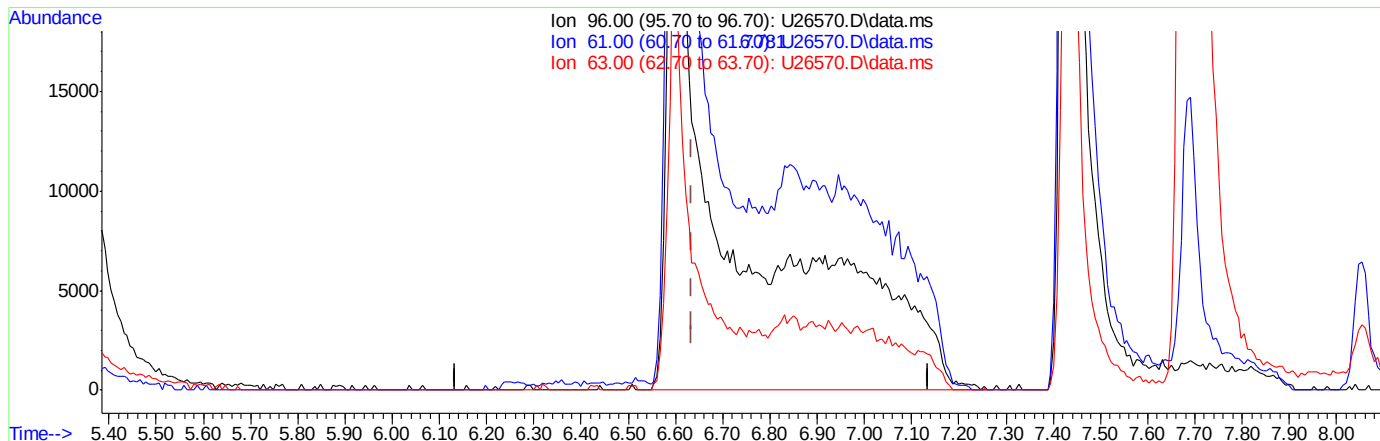
response 275038

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	150.69#
63.00	57.60	49.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.783min (+0.148) 44.77ppb m

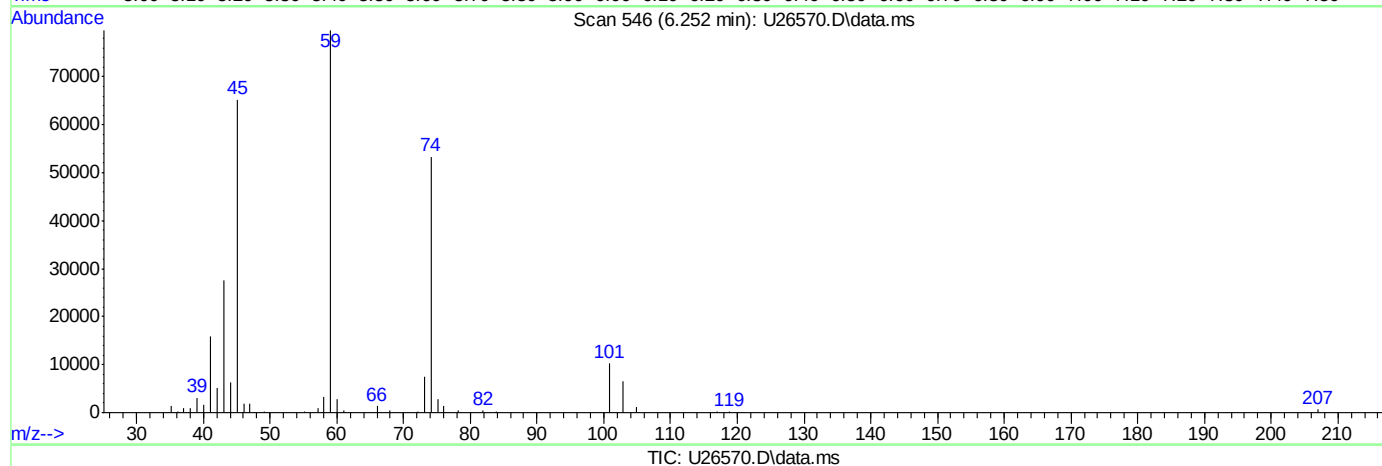
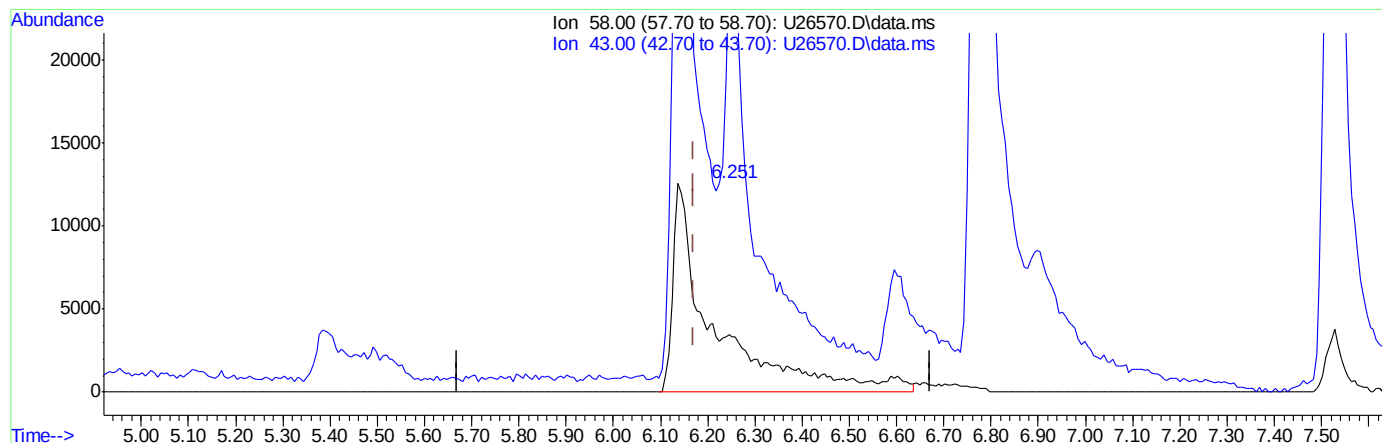
response 289600

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	161.42
63.00	57.60	47.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.251min (+0.080) 161.05ppb

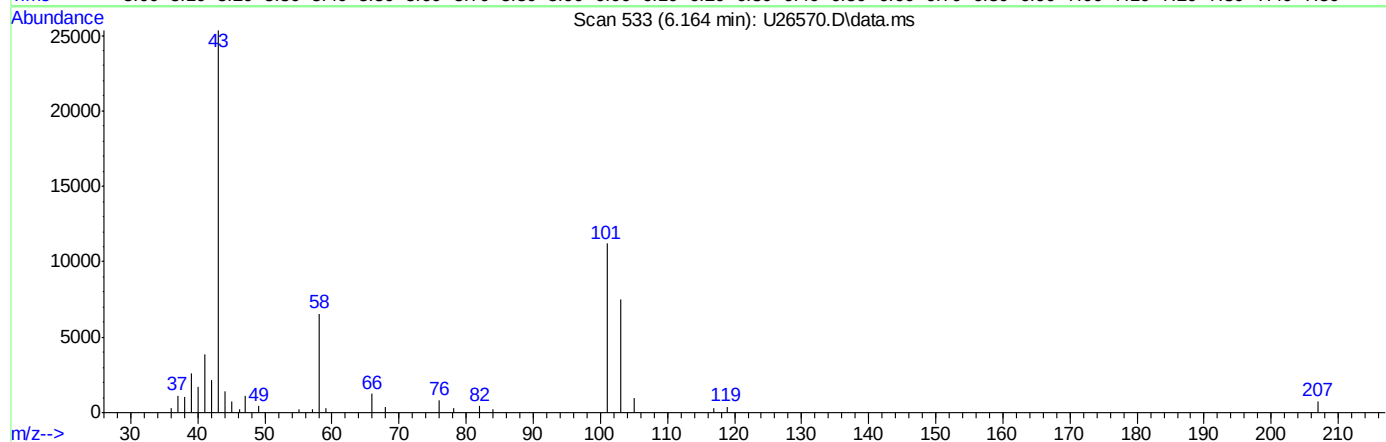
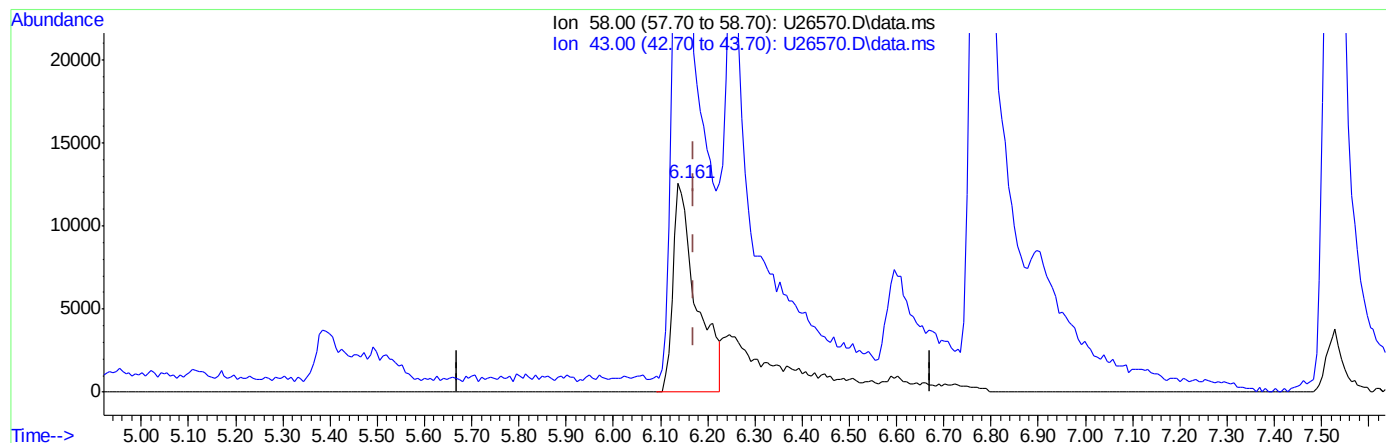
response 75774

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	799.04#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(16) acetone (P)

6.164min (-0.007) 91.55ppb m

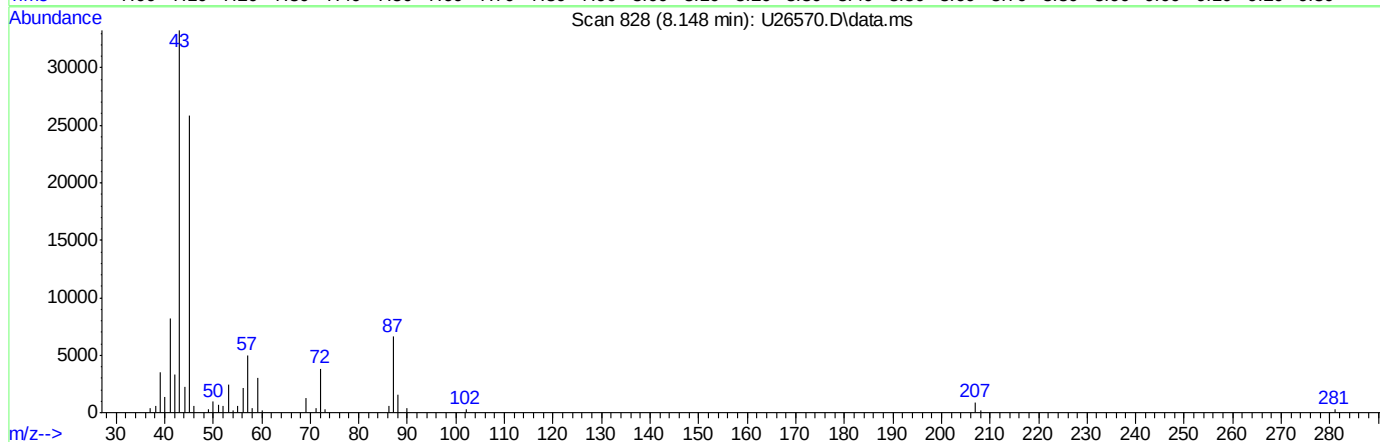
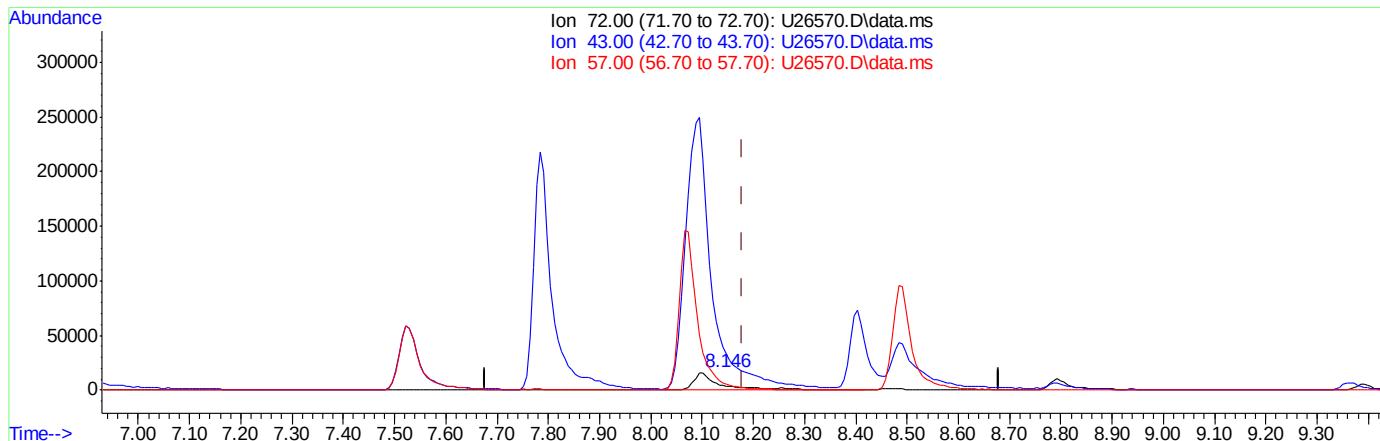
response 43073

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	386.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26570.D\data.ms

(30) 2-butanone (P)

8.146min (-0.033) 91.55ppb

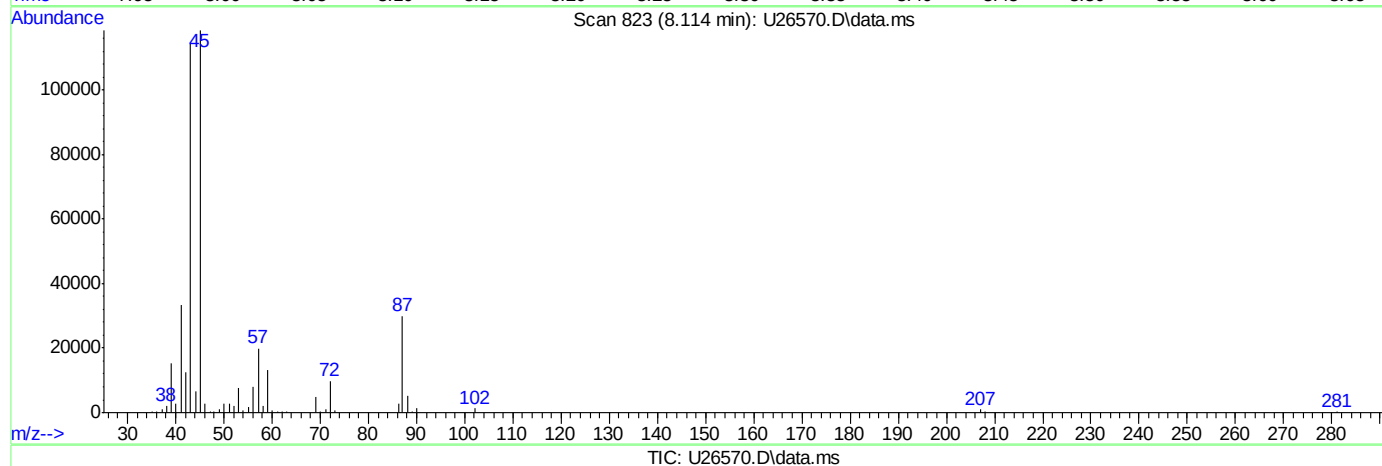
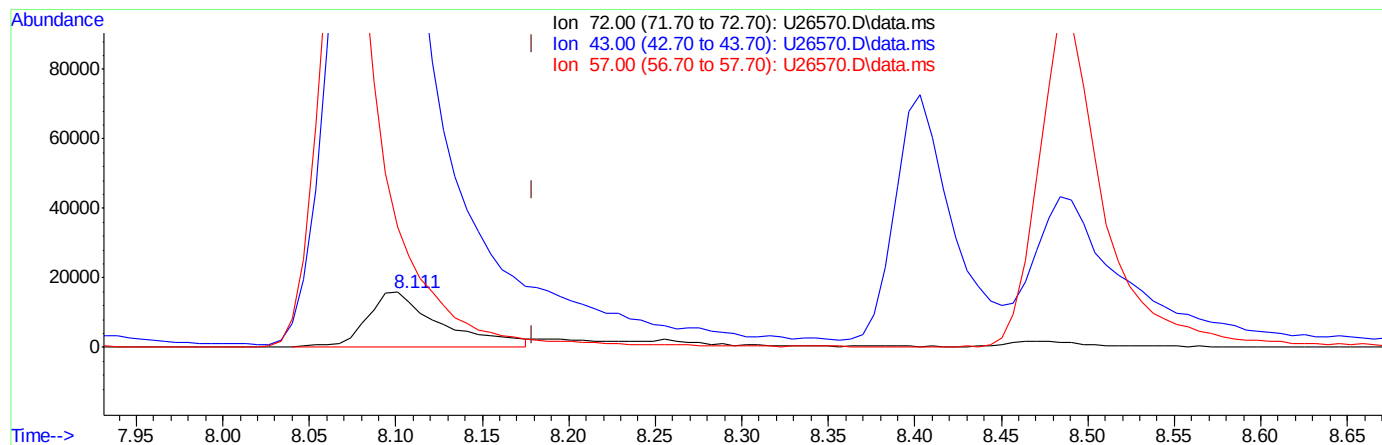
response 63327

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(30) 2-butanone (P)

8.114min (-0.065) 68.30ppb m

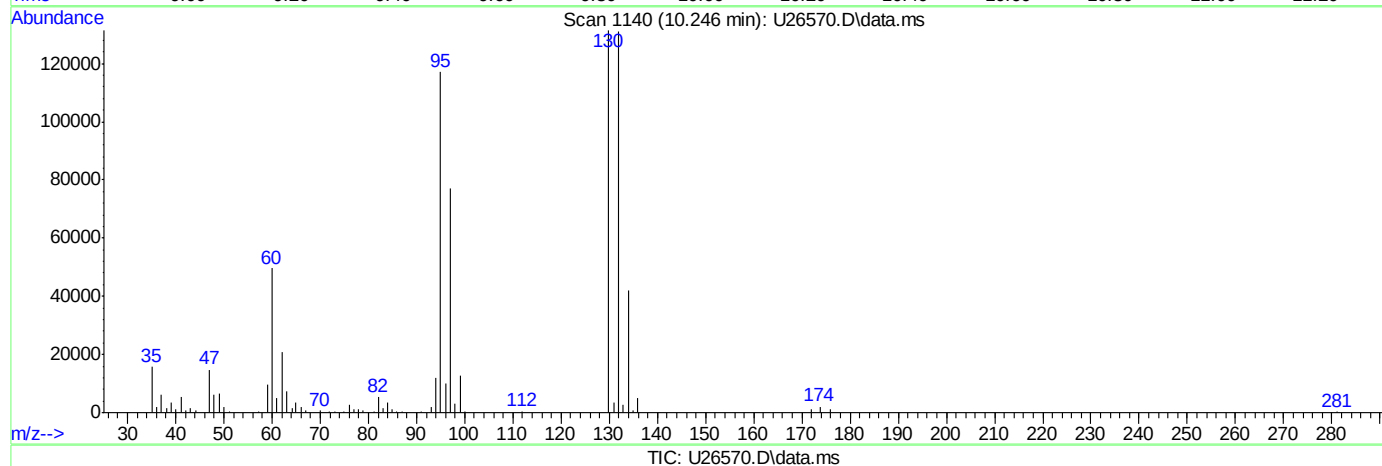
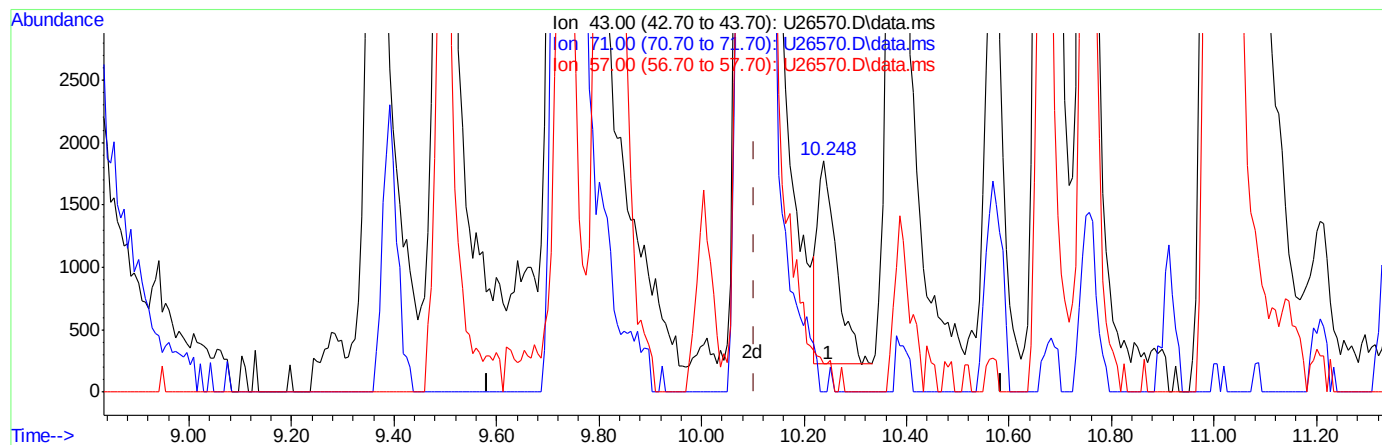
response 47243

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(50) heptane (P)

10.248min (+0.144) 0.71ppb

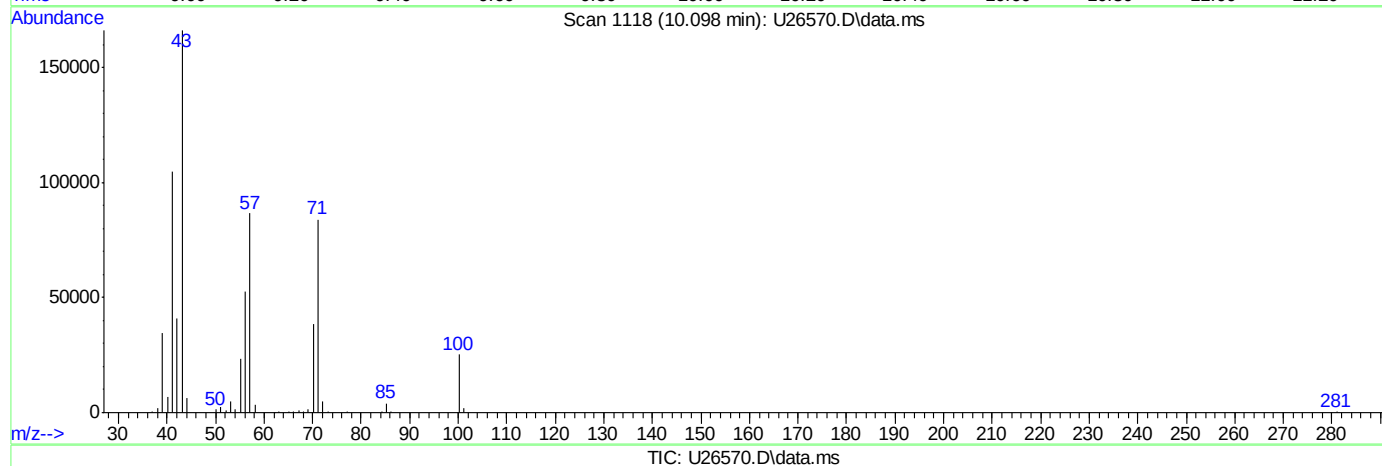
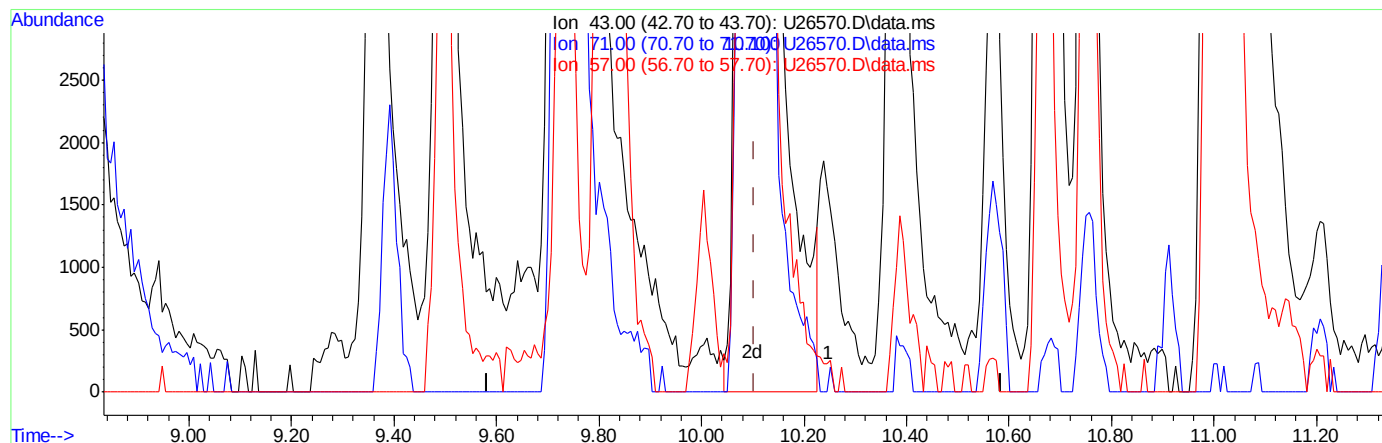
response 4146

Ion	Exp%	Act%
43.00	100	100
71.00	26.10	0.00
57.00	5.80	15.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150309\
Data File : U26570.D
Acq On : 9 Mar 2015 9:51 am
Operator : GaryK
Sample : bs
Misc : ms33941,msu1116,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 10:48:51 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(50) heptane (P)

10.098min (-0.006) 59.71ppb m

response 347791

Ion	Exp%	Act%
43.00	100	100
71.00	26.10	50.54
57.00	5.80	52.12#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26601.D
 Acq On : 10 Mar 2015 9:56 am
 Operator : GaryK
 Sample : bs
 Misc : ms33945,msu1117,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:59:16 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.730	65	155676	500.00	ppb	-0.01
4) pentafluorobenzene	8.955	168	468546	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.823	114	740008	50.00	ppb	0.00
66) chlorobenzene-d5	13.078	82	287534	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.642	152	312951	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.597	113	260938	48.68	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	97.36%		
60) toluene-d8 (s)	11.620	98	752079	50.46	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.92%		
82) bromofluorobenzene (s)	14.308	95	231207	52.57	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	105.14%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.803	59	232841m	502.91	ppb	
3) Ethanol	5.746	45	161845	6274.33	ppb	97
5) dichlorodifluoromethane	4.342	85	432922	72.00	ppb	96
6) chloromethane	4.559	50	488969	60.18	ppb	98
7) vinyl chloride	4.828	62	415919	61.14	ppb	100
8) bromomethane	5.298	96	279170	58.46	ppb	94
9) chloroethane	5.463	64	171712	59.94	ppb	79
10) ethyl ether	6.279	59	179487	47.67	ppb	86
11) acetonitrile	6.104	41	29378m	50.57	ppb	
12) trichlorofluoromethane	6.205	101	480049m	55.34	ppb	
13) freon-113	6.978	101	211427m	31.14	ppb	
15) 1,1-dichloroethene	6.776	96	278969m	46.10	ppb	
16) acetone	6.171	58	19760m	44.89	ppb	
17) Methyl Acetate	6.863	43	237403	35.55	ppb	# 48
18) methylene chloride	6.830	84	305124	50.22	ppb	97
19) methyl tert butyl ether	7.558	73	633517	46.50	ppb	94
20) acrylonitrile	6.757	53	91807	45.56	ppb	93
21) allyl chloride	6.897	41	398863	53.92	ppb	97
22) trans-1,2-dichloroethene	7.462	96	250277	45.51	ppb	# 79
23) iodomethane	6.758	142	578032	49.76	ppb	100
24) carbon disulfide	7.137	76	869695	45.17	ppb	93
25) propionitrile	8.063	54	19983	49.94	ppb	100
26) vinyl acetate	7.811	43	467749	88.39	ppb	97
27) chloroprene	8.064	53	334840	47.50	ppb	90
28) di-isopropyl ether	8.106	45	775377	50.29	ppb	86
29) methacrylonitrile	8.233	41	137746	44.39	ppb	90
30) 2-butanone	8.134	72	34772m	53.73	ppb	
31) Ethyl Acetate	8.108	43	739167	53.57	ug/L	# 74
32) Hexane	8.085	41	376790	52.88	ppb	# 77
33) 1,1-dichloroethane	7.704	63	397546	45.49	ppb	95
34) tert-butyl ethyl ether	8.505	59	734405	47.74	ppb	90
35) isobutyl alcohol	8.527	43	147352	264.74	ppb	# 20
36) 2,2-dichloropropane	8.574	77	230574	41.40	ppb	89
37) cis-1,2-dichloroethene	8.270	96	280649	46.18	ppb	# 79

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
 Data File : U26601.D
 Acq On : 10 Mar 2015 9:56 am
 Operator : GaryK
 Sample : bs
 Misc : ms33945,msu1117,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:59:16 2015
 Quant Method : D:\msdchem\1\methods\U150219w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Feb 20 11:18:57 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.442	128	154106	44.51	ppb	# 63
39) chloroform	8.475	83	439164	47.33	ppb	93
41) Tetrahydrofuran	8.851	42	72474	44.98	ppb	90
42) 1,1,1-trichloroethane	9.245	97	327982	40.41	ppb	93
44) Cyclohexane	9.541	56	300325	32.61	ppb	# 84
45) carbon tetrachloride	9.601	117	315895	42.15	ppb	96
46) 1,1-dichloropropene	9.396	75	292011	48.94	ppb	89
47) benzene	9.621	78	868460	48.56	ppb	99
48) 1,2-dichloroethane	9.141	62	343257	49.24	ppb	97
49) tert-amyl methyl ether	9.749	73	651402	49.25	ppb	96
50) heptane	10.103	43	327094	60.64	ppb	# 33
51) trichloroethene	10.242	95	280963	51.09	ppb	81
52) 1,2-dichloropropane	10.210	63	217406	49.18	ppb	98
53) dibromomethane	10.186	93	154125	46.41	ppb	94
54) bromodichloromethane	10.298	83	329369	49.09	ppb	95
55) Methylcyclohexane	10.765	83	339170	41.28	ppb	# 83
56) 2-chloroethyl vinyl ether	10.689	63	39366	50.44	ppb	90
57) methyl methacrylate	10.409	69	106310	47.09	ppb	89
59) cis-1,3-dichloropropene	10.918	75	336578	53.06	ppb	87
61) 4-methyl-2-pentanone	11.030	43	240713	52.81	ppb	96
62) toluene	11.692	92	499538	49.37	ppb	97
63) trans-1,3-dichloropropene	11.339	75	255718	51.91	ppb	95
64) 1,1,2-trichloroethane	11.512	83	146529	48.46	ppb	97
65) ethyl methacrylate	11.723	69	199688	49.61	ppb	# 63
67) tetrachloroethene	12.434	166	231669	48.17	ppb	95
68) 1,3-dichloropropane	11.746	76	265940	51.48	ppb	94
69) dibromochloromethane	12.036	129	257837	48.06	ppb	94
70) 1,2-dibromoethane	12.289	107	191528	45.85	ppb	98
71) 2-hexanone	11.895	43	191073	65.97	ppb	97
72) chlorobenzene	13.114	112	551868	44.18	ppb	87
73) 1,1,1,2-tetrachloroethane	13.034	131	268227	48.78	ppb	95
74) ethylbenzene	13.290	91	909224	48.01	ppb	95
75) m,p-xylene	13.474	106	724794	94.75	ppb	89
76) o-xylene	13.887	106	393297	45.50	ppb	89
77) styrene	13.815	104	533026	44.20	ppb	94
78) bromoform	13.643	173	142446	42.97	ppb	100
79) trans-1,4-dichloro-2-b...	14.044	53	42669	38.18	ppb	# 38
81) isopropylbenzene	14.251	105	1069281	56.01	ppb	95
83) bromobenzene	14.539	156	248508	50.96	ppb	# 80
84) 1,1,2,2-tetrachloroethane	13.894	83	257417	56.95	ppb	98
85) 1,2,3-trichloropropane	14.043	75	223754	50.19	ppb	99
86) n-propylbenzene	14.696	91	1085499	54.06	ppb	93
87) 2-chlorotoluene	14.813	91	670598	52.51	ppb	87
88) 4-chlorotoluene	14.890	91	611086	51.14	ppb	87
89) 1,3,5-trimethylbenzene	14.973	105	1012193	59.03	ppb	93
90) tert-butylbenzene	15.278	91	564927	59.27	ppb	88
91) 1,2,4-trimethylbenzene	15.382	105	980005	54.70	ppb	97
92) sec-butylbenzene	15.501	105	1314028	57.77	ppb	95
93) 1,3-dichlorobenzene	15.604	146	488180	48.22	ppb	98
94) p-isopropyltoluene	15.675	119	1180303	58.40	ppb	96

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:59:16 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.671	146	503341	47.80	ppb	100
96) 1,2-dichlorobenzene	16.040	146	551092	47.78	ppb	97
97) n-butylbenzene	16.094	91	998053	57.36	ppb	89
98) 1,2-dibromo-3-chloropr...	16.522	75	58539	47.45	ppb	79
99) 1,3,5-trichlorobenzene	17.331	180	522066	51.26	ug/L	95
100) 1,2,4-trichlorobenzene	17.869	180	563750	49.58	ppb	94
101) hexachlorobutadiene	18.158	225	214628	61.41	ppb	94
102) naphthalene	18.134	128	1490698	53.79	ppb	100
103) 2-Methylnaphthalene	19.497	142	529803	32.10	ug/L	96
104) 1-Methylnaphthalene	19.743	142	427866	33.89	ug/L	96
105) 1,2,3-trichlorobenzene	18.341	180	579930	57.60	ppb	95

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

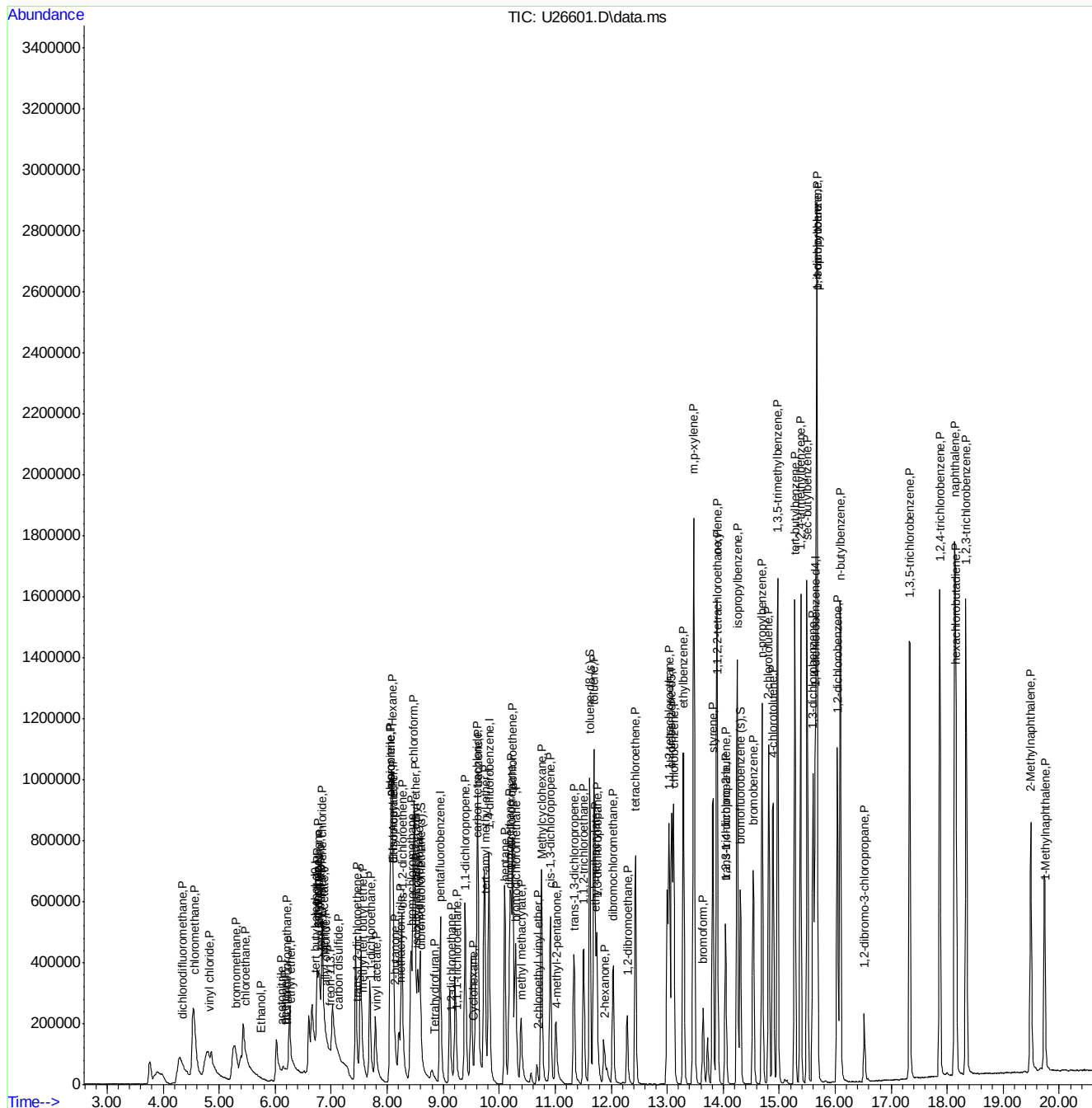
7.6.14

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:59:16 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



U150219w.m Tue Mar 10 12:16:22 2015

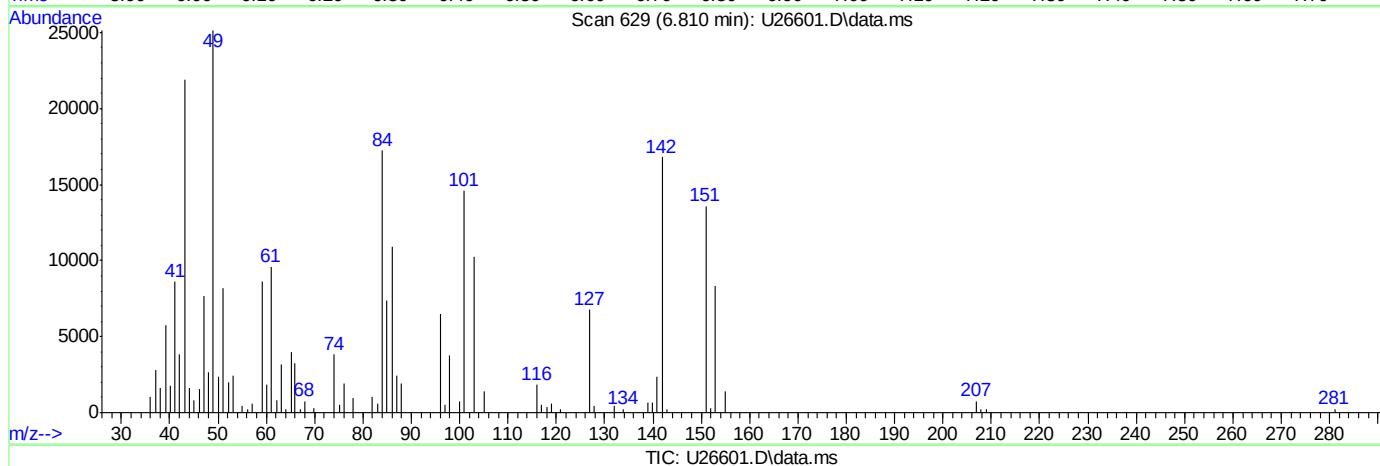
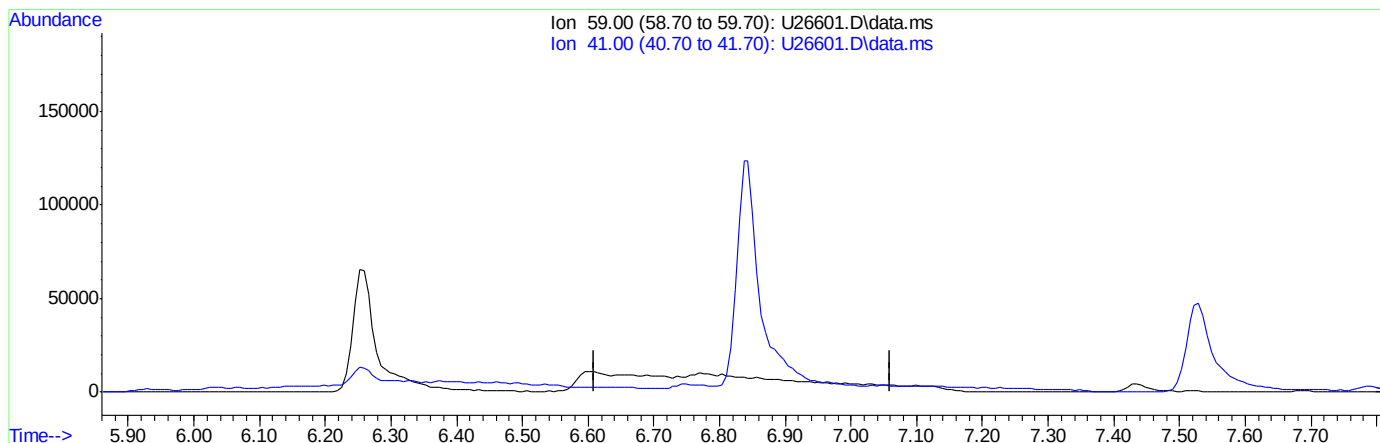
Page: 4

7.6.14

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.810min (-6.810) 0.00ppb

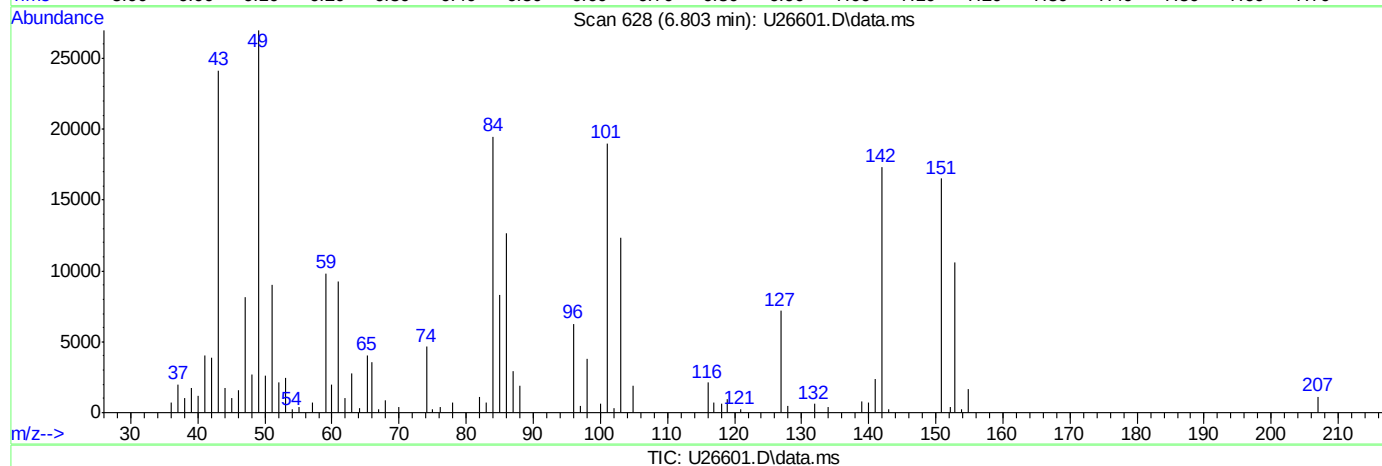
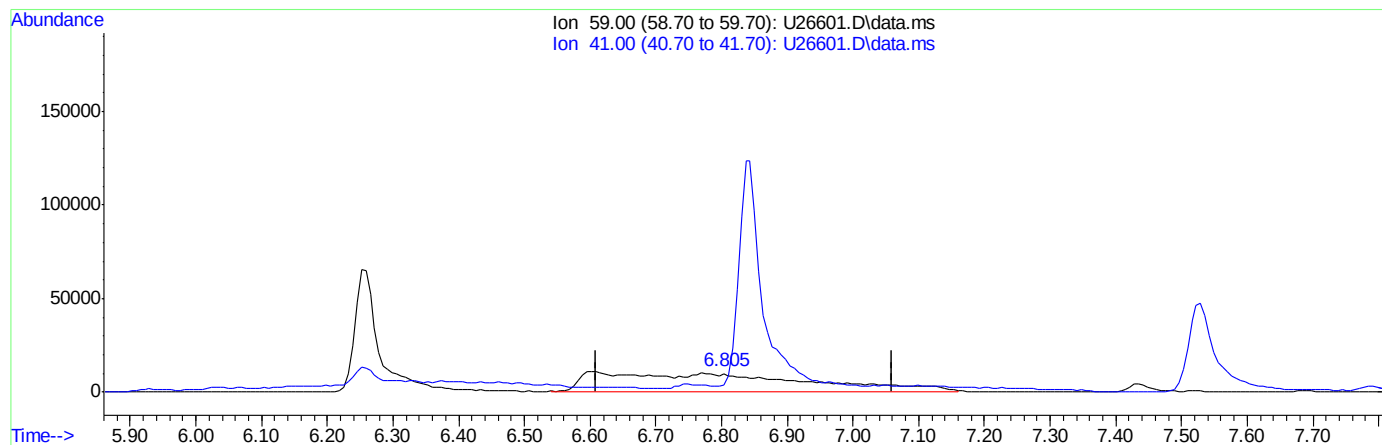
response 0

Ion	Exp%	Act%
59.00	100	0.00
41.00	23.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(2) tertiary butyl alcohol (P)

6.803min (-0.007) 502.91ppb m

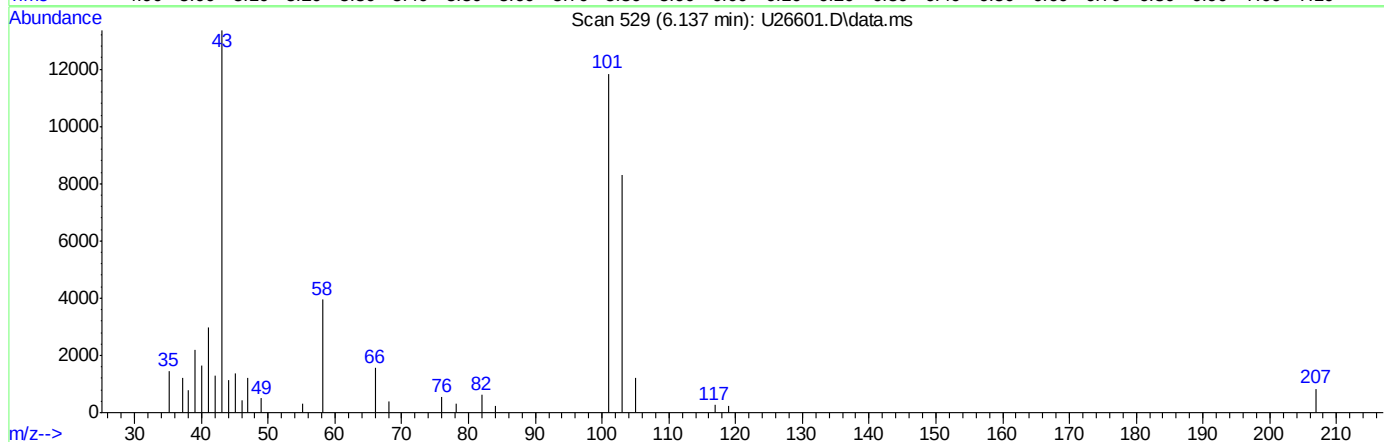
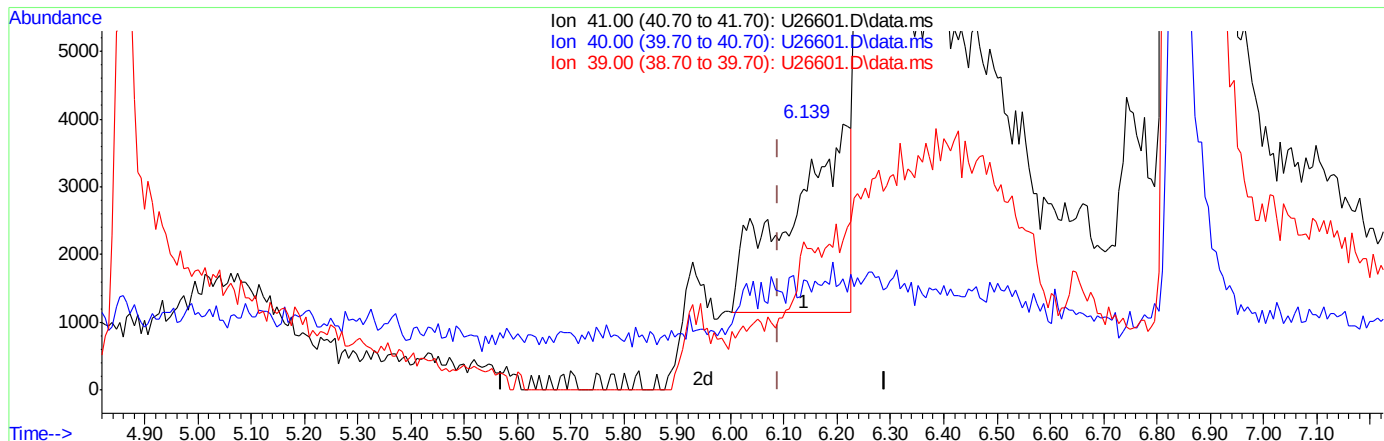
response 232841

Ion	Exp%	Act%
59.00	100	100
41.00	23.90	41.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(11) acetonitrile (P)

6.139min (+0.049) 36.37ppb

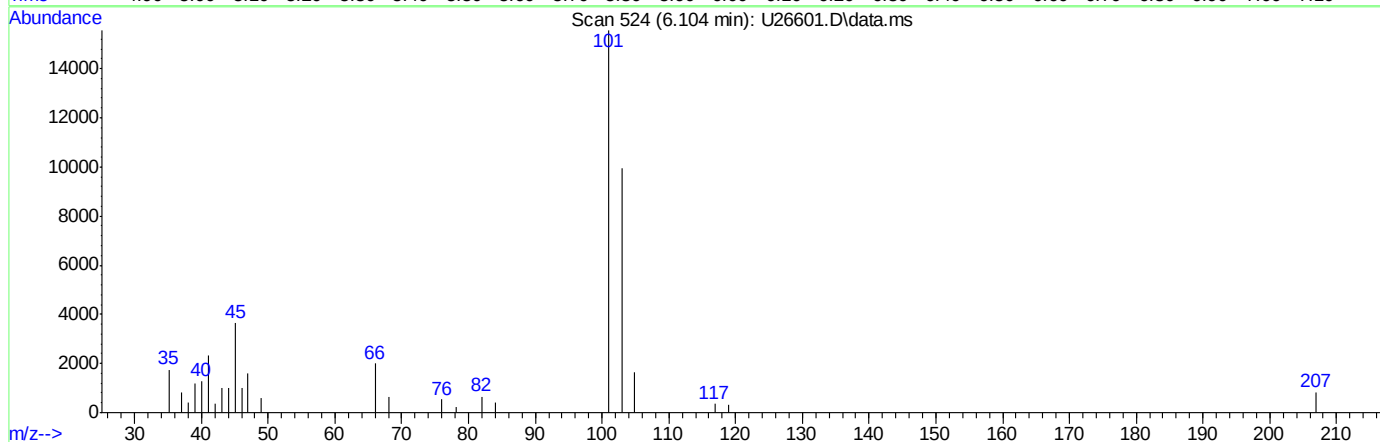
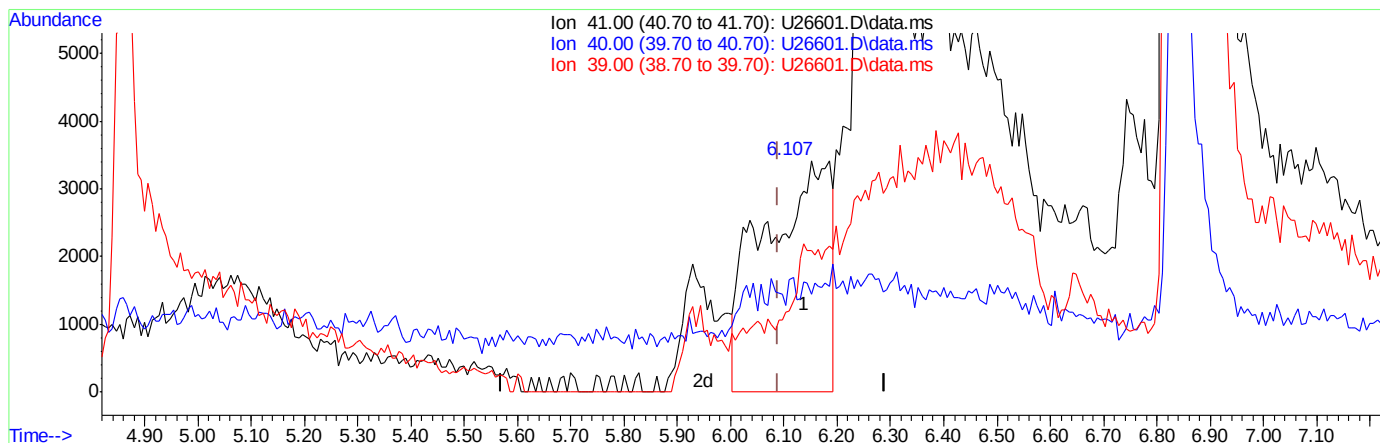
response 21705

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	34.87#
39.00	24.50	72.47#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



TIC: U26601.D\data.ms

(11) acetonitrile (P)

6.104min (+0.014) 50.57ppb m

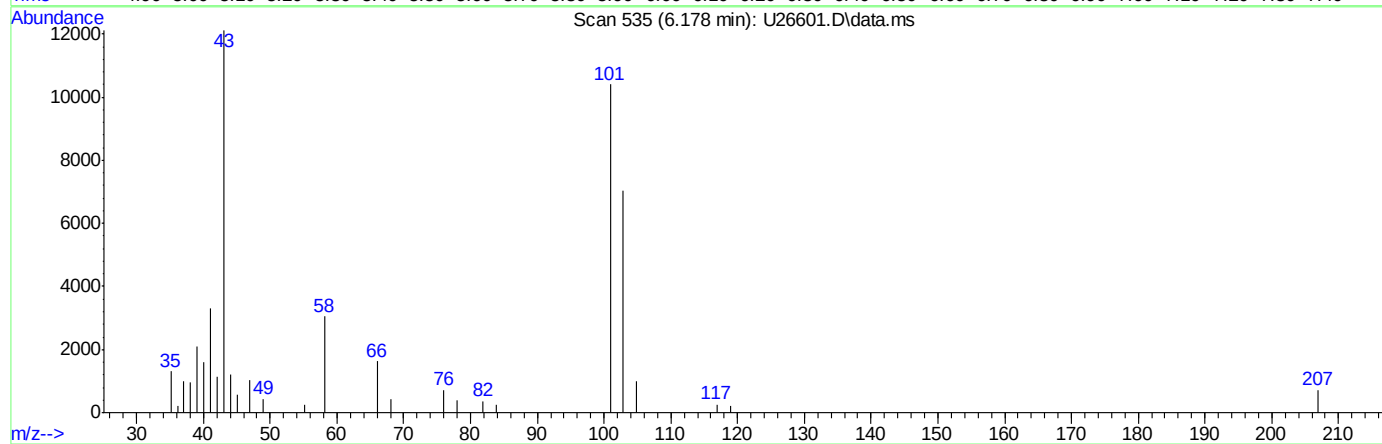
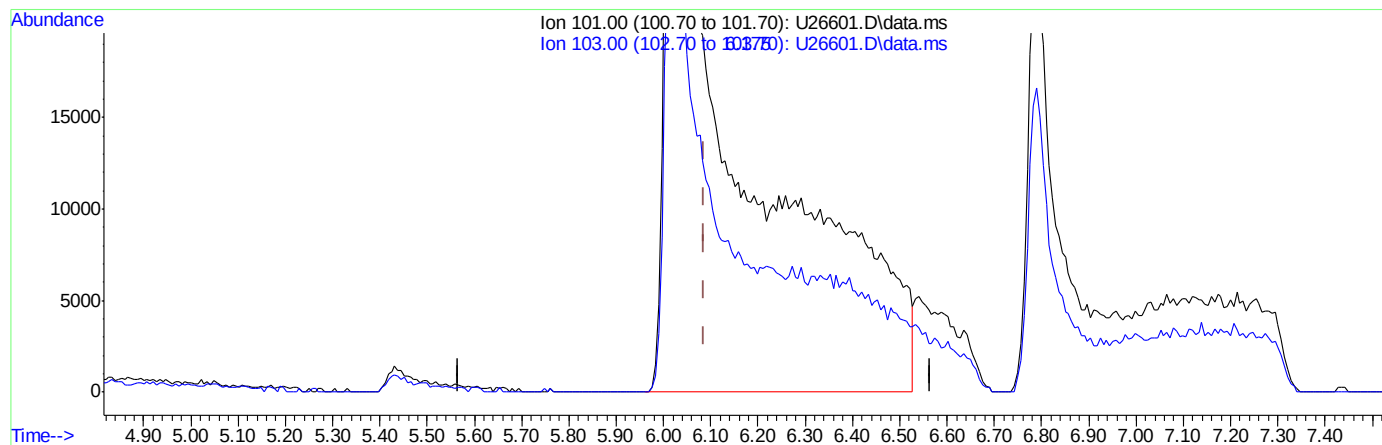
response 29378

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	54.90#
39.00	24.50	50.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.175min (+0.089) 51.71ppb

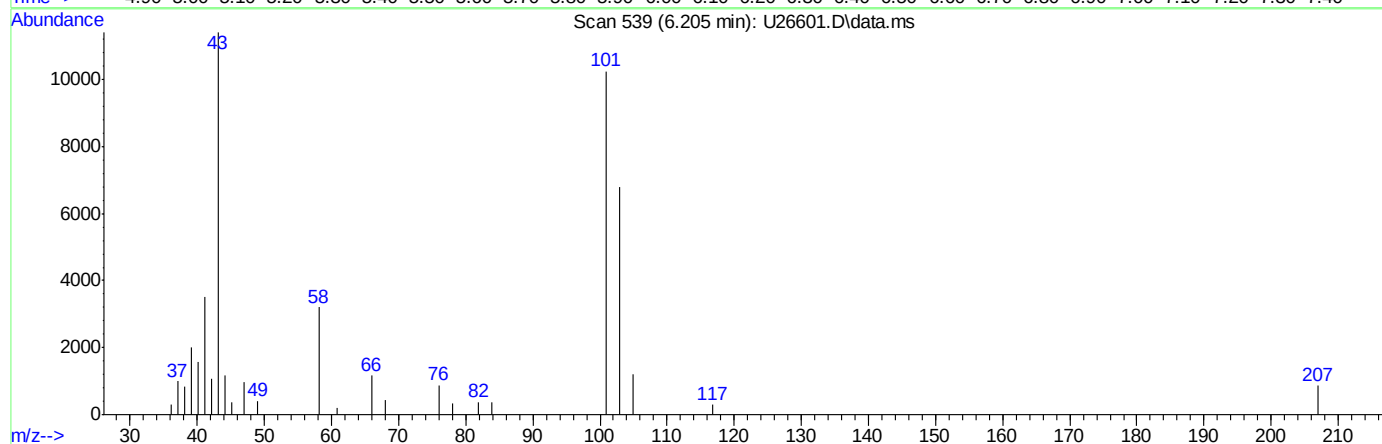
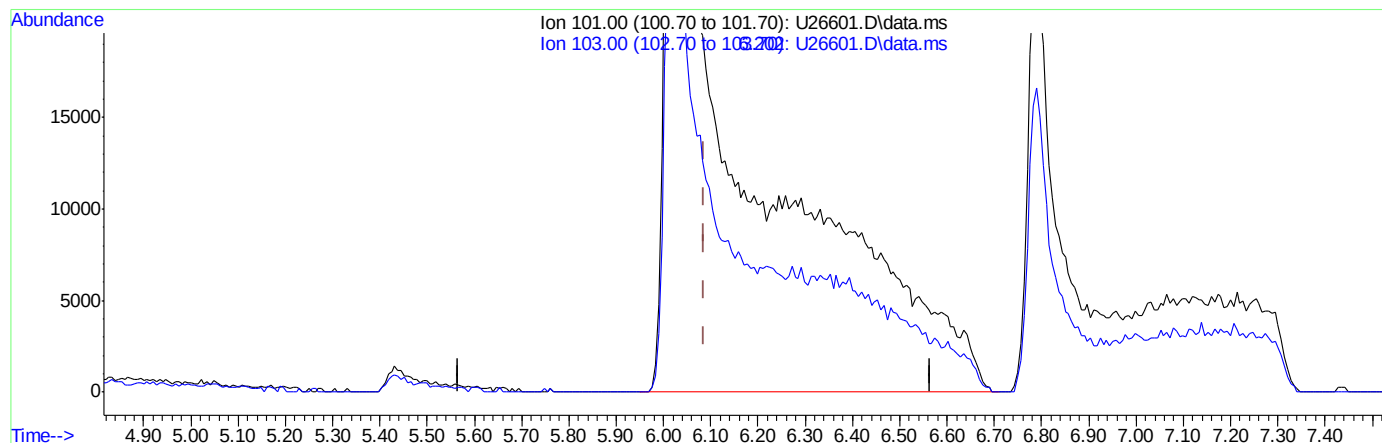
response 448546

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	67.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(12) trichlorofluoromethane (P)

6.205min (+0.119) 55.34ppb m

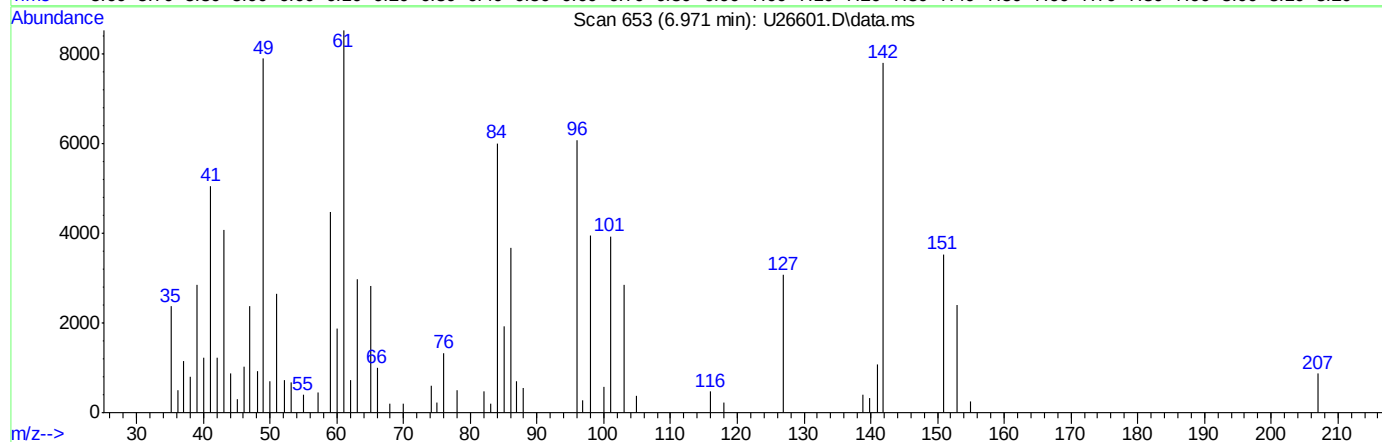
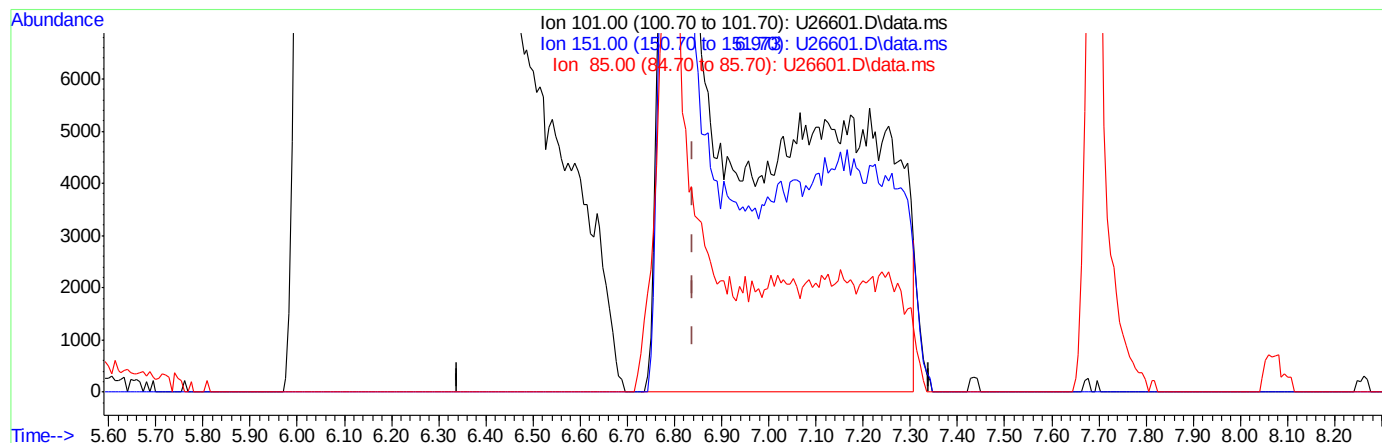
response 480049

Ion	Exp%	Act%
101.00	100	100
103.00	63.80	66.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.973min (+0.133) 30.88ppb

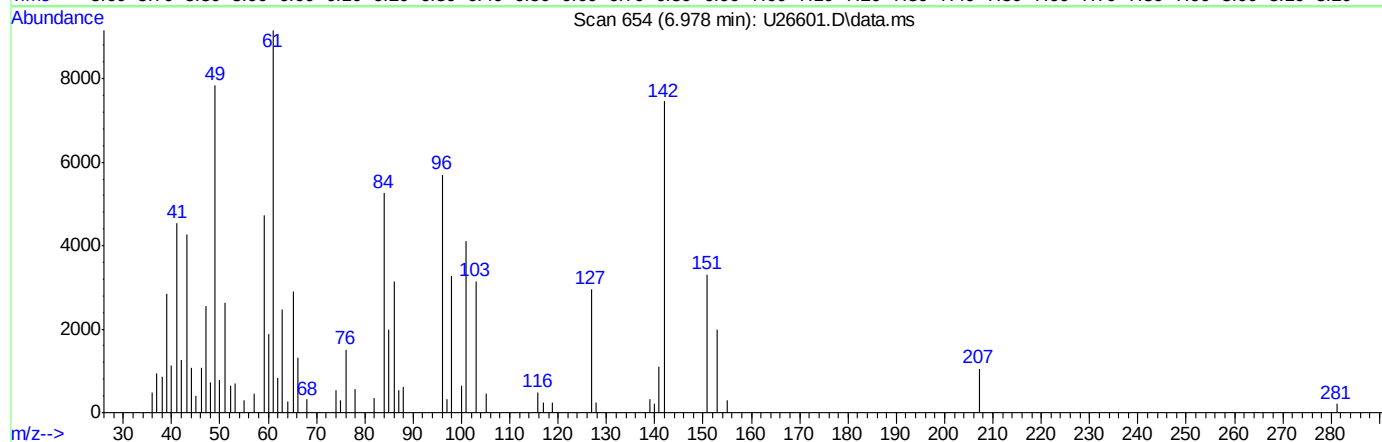
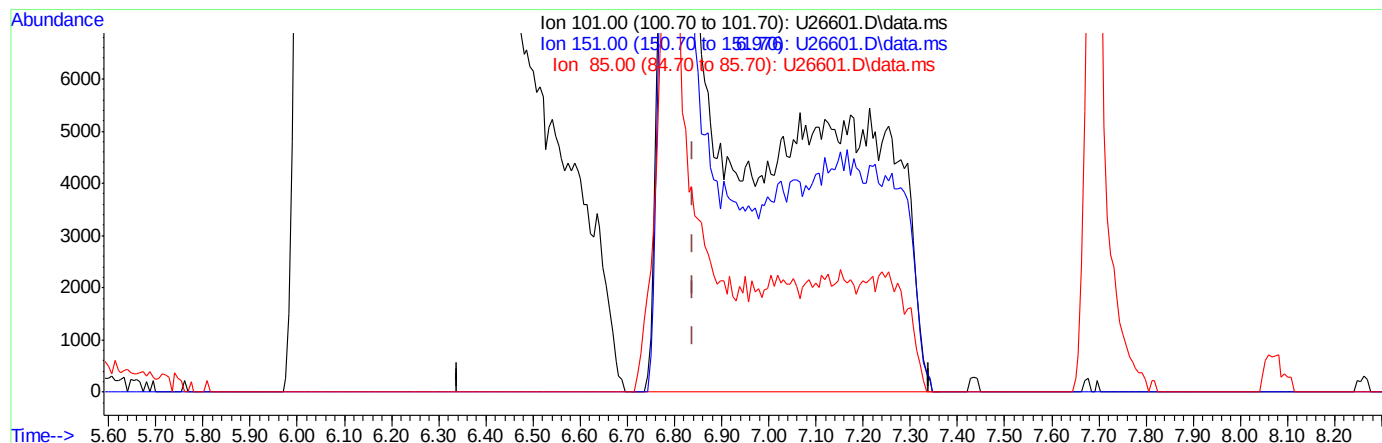
response 209659

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	89.63
85.00	45.00	29.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(13) freon-113 (P)

6.978min (+0.138) 31.14ppb m

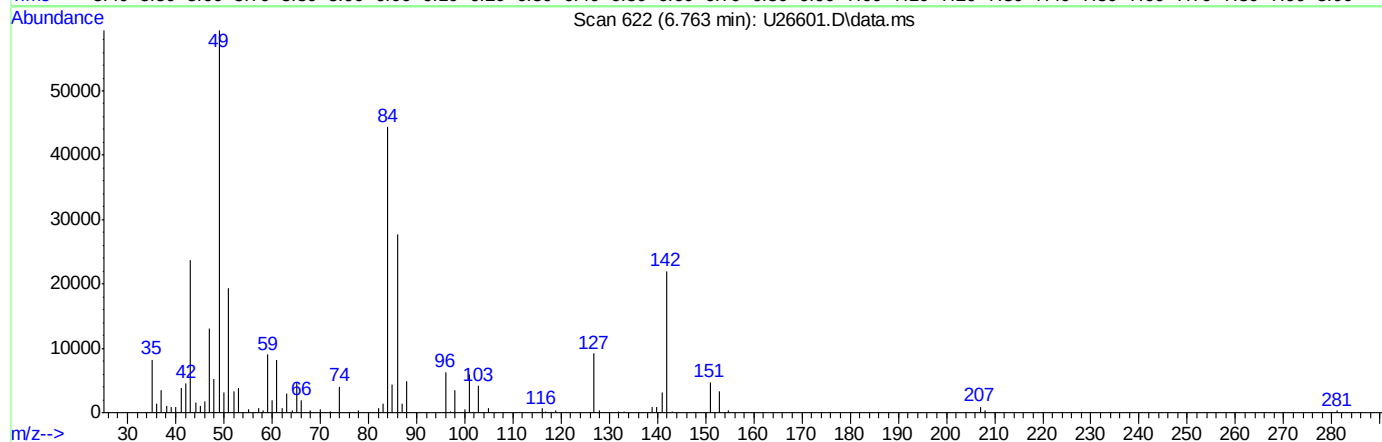
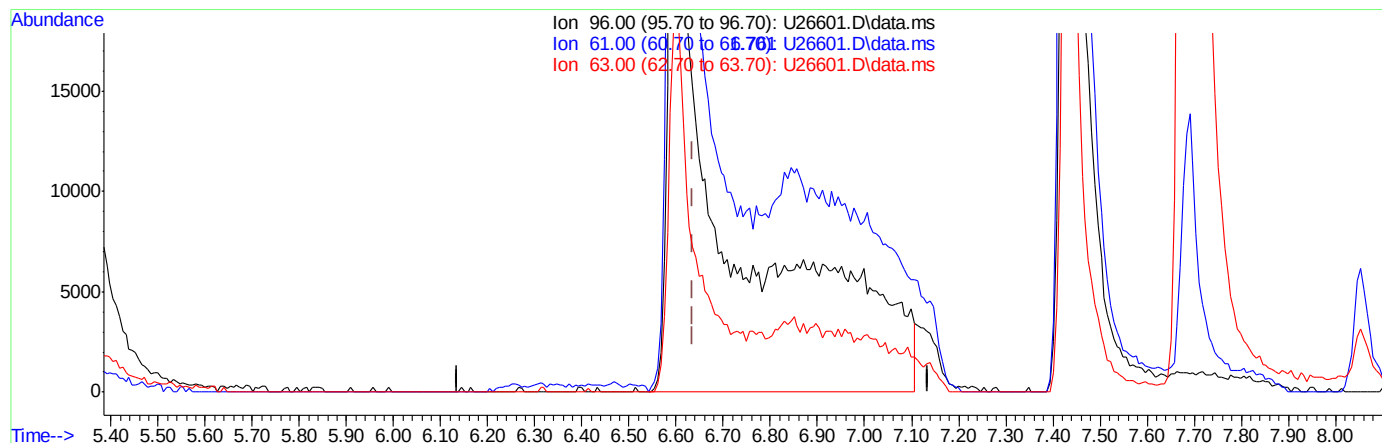
response 211427

Ion	Exp%	Act%
101.00	100	100
151.00	79.40	80.46
85.00	45.00	48.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.761min (+0.126) 44.31ppb

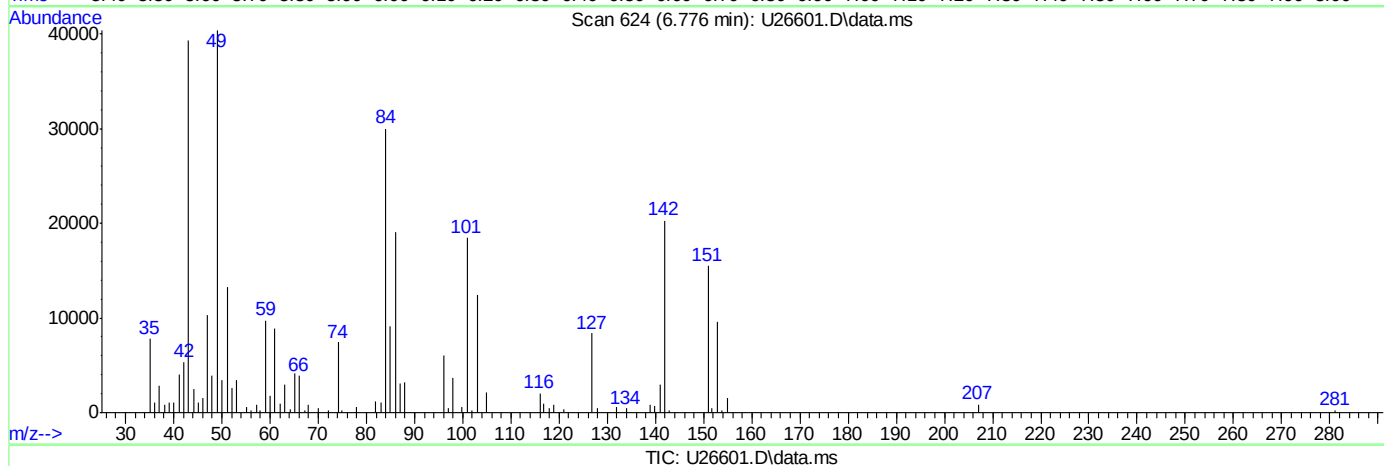
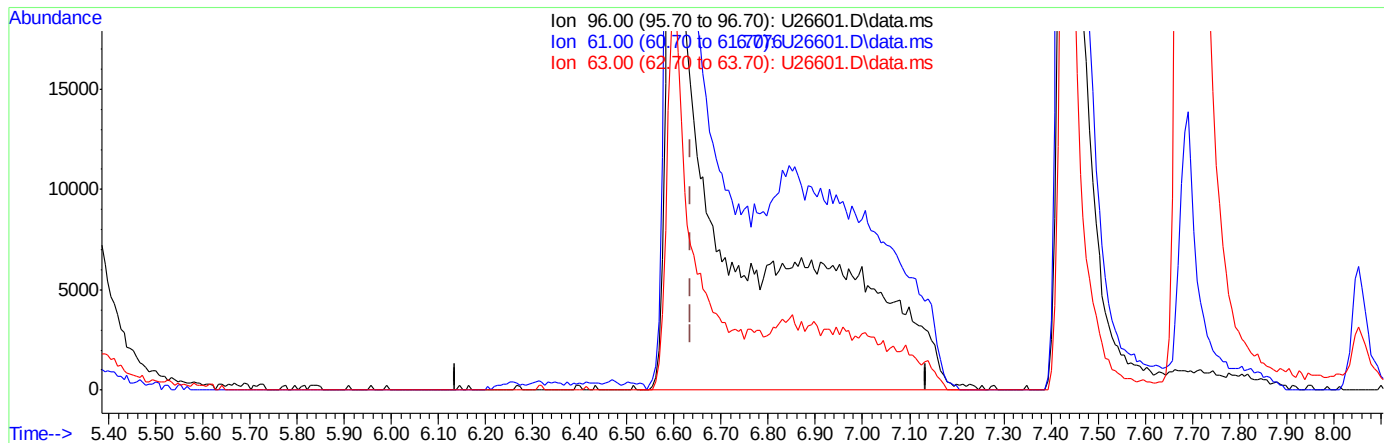
response 268147

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	128.21#
63.00	57.60	47.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(15) 1,1-dichloroethene (P)

6.776min (+0.141) 46.10ppb m

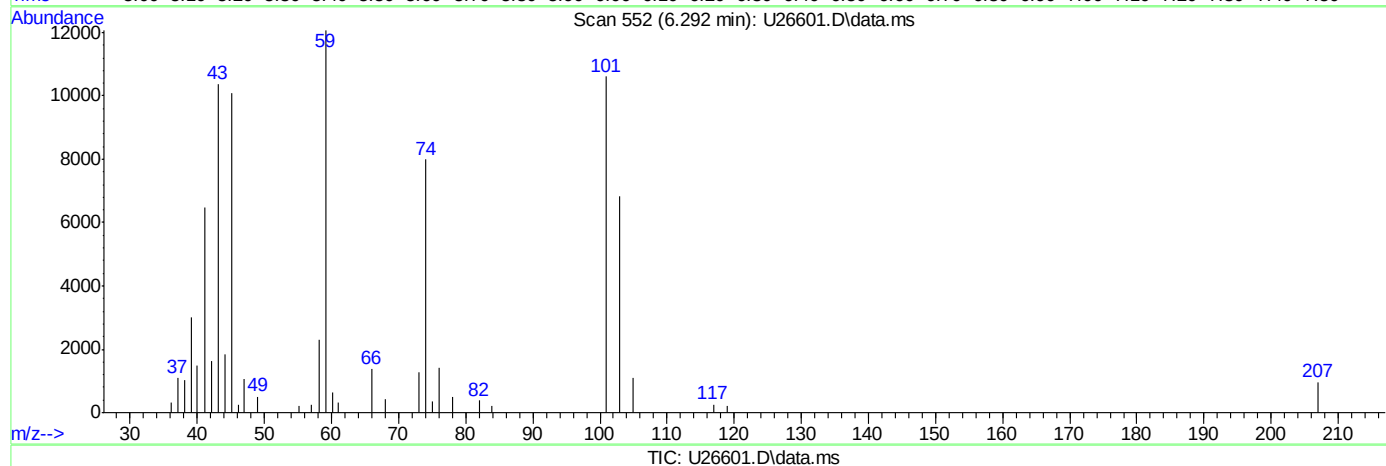
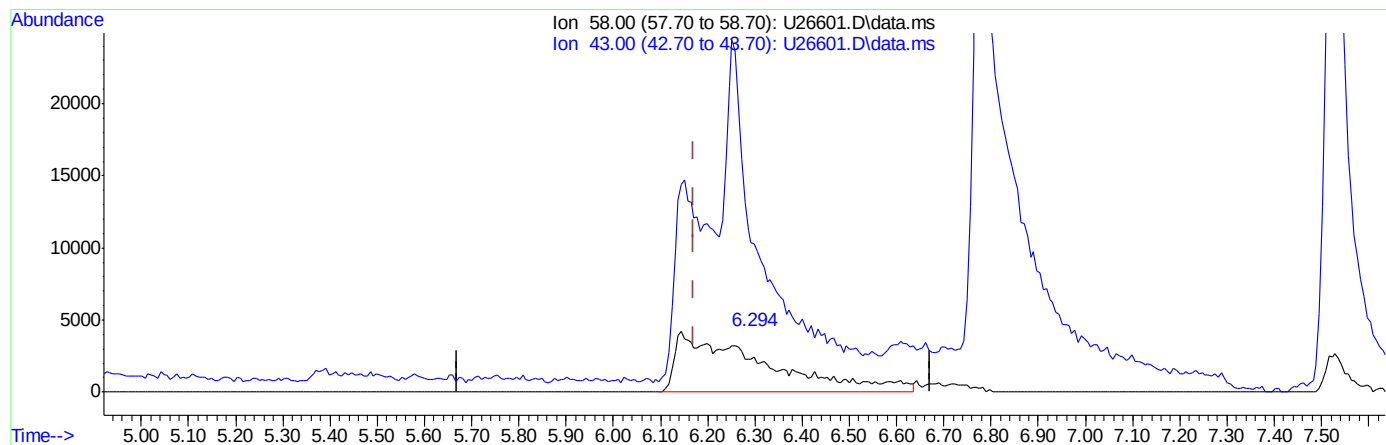
response 278969

Ion	Exp%	Act%
96.00	100	100
61.00	188.70	146.71#
63.00	57.60	49.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.294min (+0.123) 123.21ppb

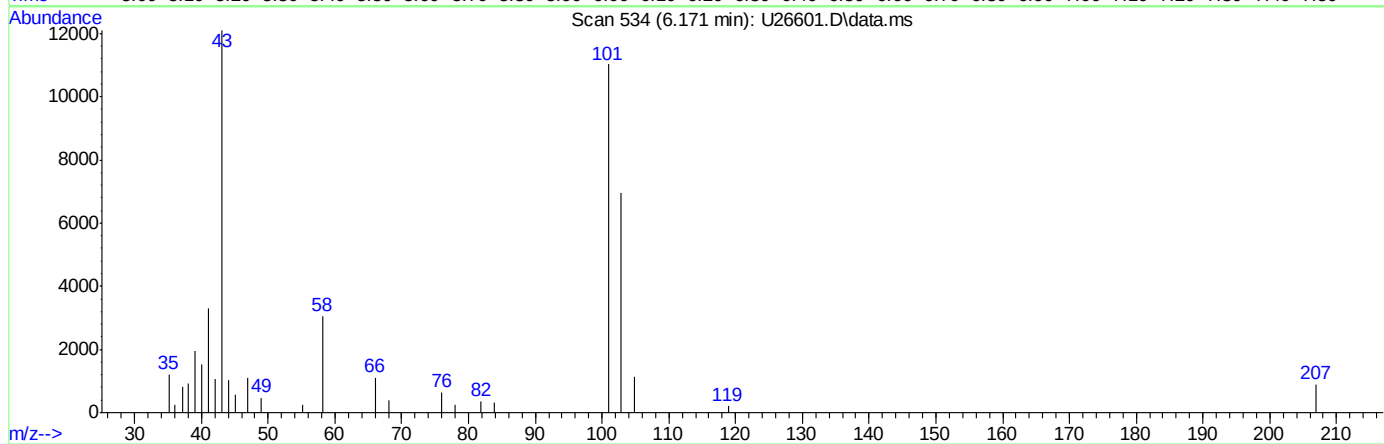
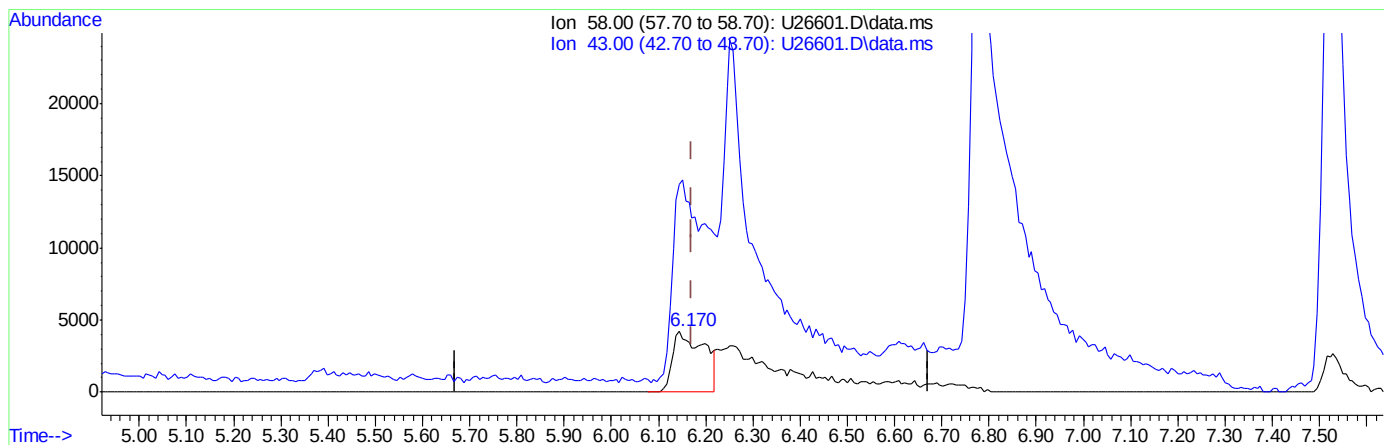
response 54236

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	415.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(16) acetone (P)

6.171min (+0.000) 44.89ppb m

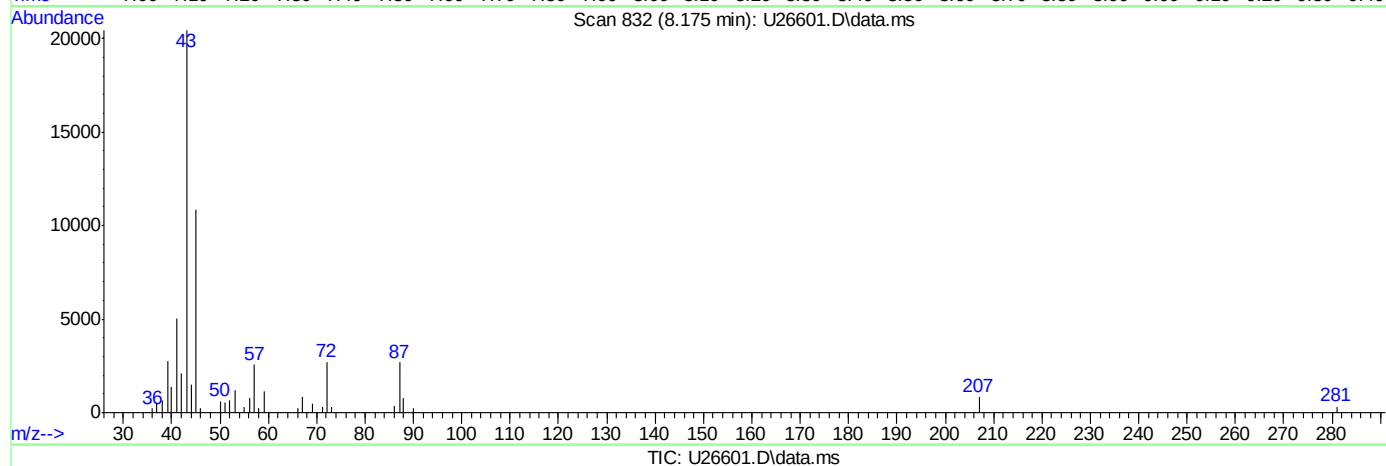
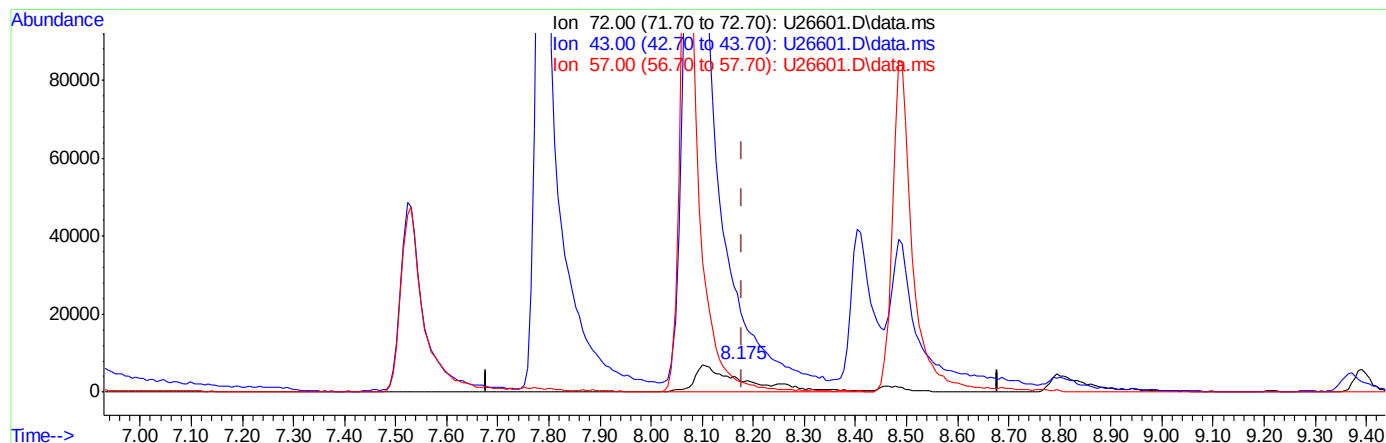
response 19760

Ion	Exp%	Act%
58.00	100	100
43.00	308.80	394.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(30) 2-butanone (P)

8.175min (-0.004) 74.96ppb

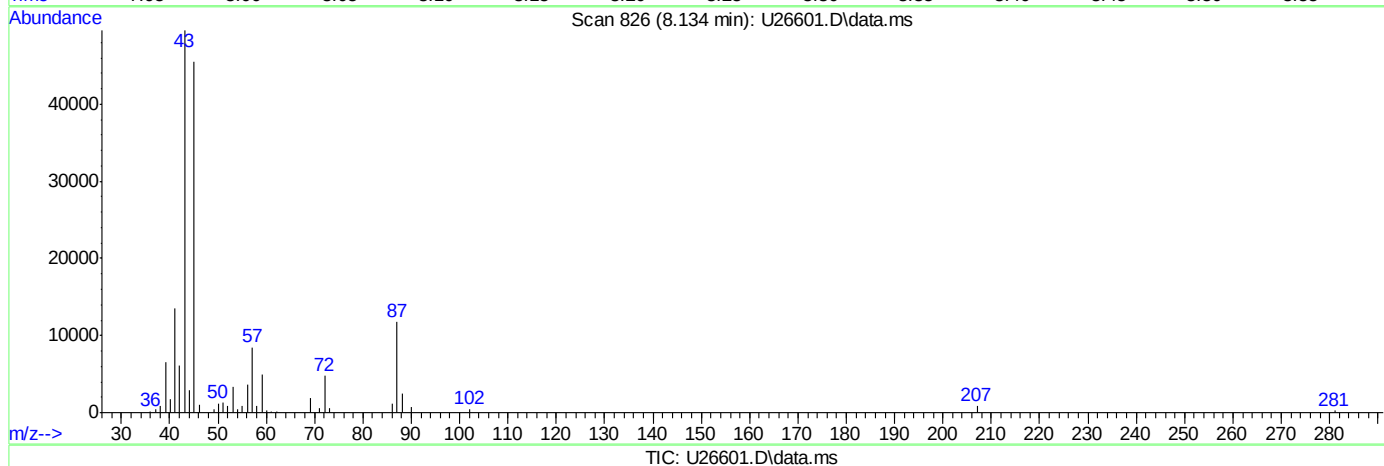
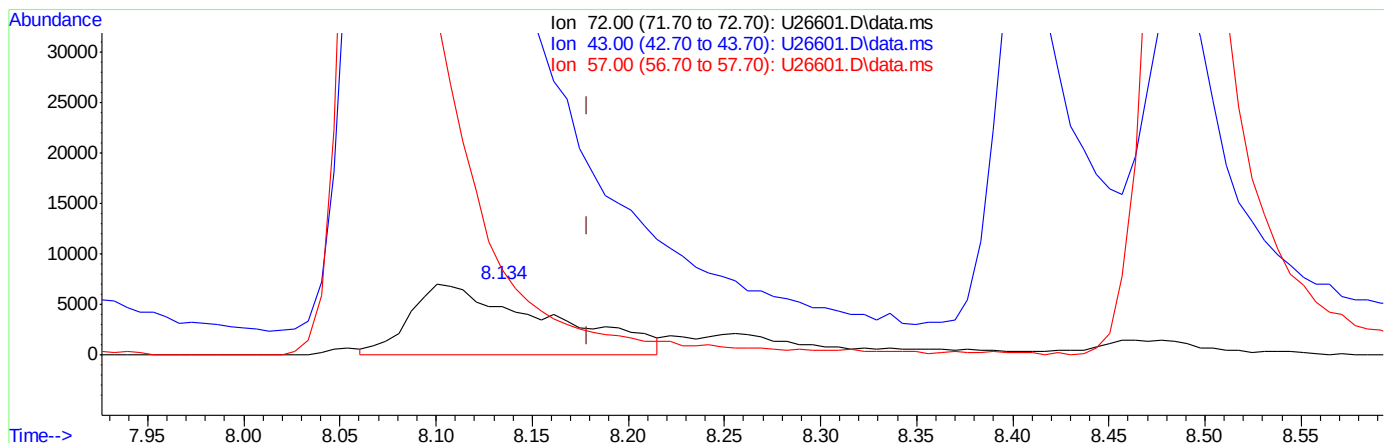
response 48508

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U150310\
Data File : U26601.D
Acq On : 10 Mar 2015 9:56 am
Operator : GaryK
Sample : bs
Misc : ms33945,msu1117,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 10 10:57:31 2015
Quant Method : D:\msdchem\1\methods\U150219w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Feb 20 11:18:57 2015
Response via : Initial Calibration



(30) 2-butanone (P)

8.134min (-0.045) 53.73ppb m

response 34772

Ion	Exp%	Act%
72.00	100	100
43.00	1487.20	0.00#
57.00	99.80	0.00#
0.00	0.00	0.00

Standards Data

Lot #	Description	Conc
MS 10098	V8260 IS/SS	250 µg/ml
10075	cc mix	200 µg/ml
10111	cc gas	
10093	bs mix	
10108	bs gas	

Daily Saved File

Tune file 1:	V26285
Tune file 2:	
Initial Cal:	2-19-15
ID File:	V150219w.m
ICAL Verified:	
Sequence verified:	GK

Date: 2-19-15

Batch ID: MSU 1106

Analysts GK

Signature: Gary Kinnish

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

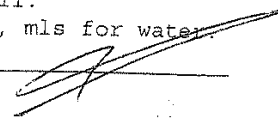
Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	pH paper LOT#	Samp Amt.	% Sol	Dil. Fact.	exp: pH	Comments
V26280	blk	-	-	V8260	1	W		5mL	-	1X	-	
81	test 0.5	3, 2			2							
82	5				3							
83	5				4							
84	blk	-			1							
85	bfb tune				2							
86	ic1106-0.5	3, 2	MS10075 10111		3							✓ 1:39 pm
87	1				4							✓
88	2				5							✓
89	5				6							✓
90	10				7							✓
91	25				8							✓
92	50				9							✓
93	100				10							✓
94	200				11							✓
95	400				12							✓
96	blk	-			13							✓
97					14							✓
98	icv1106-50	3, 2	MS10043 10108		15							✓
99					16							
300	blk	-	-		17							

GK 2-19-15

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14

Review: 

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Standards Data

Daily Saved File

Lot #	Description	Conc
MS 10098	V826035/55	2500ug/ml
10075	cc mix	200ug/ml
10111	cc gas	
10093	bs mix	
10108	bs gas	

Tune file 1:	V26307
Tune file 2:	
Initial Cal:	2-19-15
ID File:	V150219u.m
ICAL Verified:	V26307
Sequence verified:	

Date: 2-20-15

Batch ID: MSU1106

Analysts: GK

Signature:

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	pH paper LOT#	Samp Amt.	% Sol	Dil. Fact.	exp:	pH	Comments
V26306	LK	-	-	8260	6	W		5mL	-	1X		-	
07	ICU100-50 CC100-50	3,1	MS10075 CC111		7								✓✓12:07pm
08	bsd	↓	↓		8								
09	blk	-	-		9								
10	m13	↓	↓		10								
11	MC36938-3	1	MS33891	CTAROM	11							62	✓
12	MC36951-8	5		STAR	12							22	✓
13	MC36938-1	8		CTAROM	13							62	✓
14	↓ 2	↓		↓	14								✓
15	MC36951-13	2		STAR	15								✓
16	-17	4			16								✓
17	9	3			17								✓
18	12	2			18							22	✓
19	11	3			19							62	✓
20	15	5			20								✓
21	16	3			21								✓
22	8MS	4			22					5X		22	✓
23	8MSD	↓			23					↓			✓
24	6	4			24					1X		62	✓
25	5	2			25					2X			✓
26	2	1			26					5X			✓
27	4	3			27					↓			✓
28	14	2			28					↓			✓
29	3	1			29					10X		22	1X % D hits
30	1	↓			30					↓		62	✓
31	10	5			31					↓			5X % hits
32	7	2			32					100X		22	2X % hits
33	blk1	-	-		33					1X			
34	2	↓			34					↓			
35	3	↓			35					↓			

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14

Review:

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VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS10098	V8200 IS/SS	250 µl
10075	cc mix	200 µl
10111	cc gas	↓
10093	cc mix	↓
10108	cc gas	↓

Daily Saved File

Tune file 1:	U26336
Tune file 2:	N/A
Initial Cal:	2-19-15
ID File:	U150219w.m
ICAL Verified:	U26338
Sequence verified:	II

Date: 2-23-15

Batch ID: MSU1107/1108

Analysts: GK

Signature:

Screen

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#

exp:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U26336	bfb Tune	-	-	V8200	1	W	5mL	-	1X	-	✓ V8:27Am
37	CC1106-50	3,2	MS10075 10111	↓	2	↓	↓	↓	↓	↓	✓
38	ICV1106-50/BS	↓	MS10093 10108	↓	3	↓	↓	↓	↓	↓	✓
39	bsd	↓	↓	↓	4	↓	↓	↓	↓	↓	↓
40	blk	-	-	↓	5	↓	↓	↓	↓	↓	↓
41	mb	↓	↓	↓	6	↓	↓	↓	↓	↓	✓
42	MC36964-15	2	DOD MMR SL	MS33893	7	↓	↓	↓	↓	22	✓
43	-1	3	↓	↓	8	↓	↓	↓	↓	↓	✓
44	14	2	↓	↓	9	↓	↓	↓	↓	↓	✓
45	16	1	↓	↓	10	↓	↓	↓	↓	↓	✓
46	17	3	↓	↓	11	↓	↓	↓	↓	↓	✓
47	18	2	↓	↓	12	↓	↓	↓	↓	↓	✓
48	19	3	↓	↓	13	↓	↓	↓	↓	↓	✓
49	20	↓	↓	↓	14	↓	↓	↓	↓	↓	✓
50	21	1	↓	↓	15	↓	↓	↓	↓	↓	✓
51	22	4	↓	↓	16	↓	↓	↓	↓	↓	✓
52	1ms	2	↓	↓	17	↓	↓	↓	5X	↓	✓
53	1ms	↓	↓	↓	18	↓	↓	↓	↓	↓	✓
54	blk	-	-	↓	19	↓	↓	↓	1X	↓	✓
55	ECC1106-50	3,2	MS10093 10108	V8200	20	↓	↓	↓	↓	↓	✓
56	blk/mb	-	-	↓	21	↓	↓	↓	↓	↓	✓
57	MC36966-8	1	DOD Screen	MS33895	22	↓	↓	↓	↓	22	✓
58	1	↓	↓	↓	23	↓	↓	↓	↓	↓	✓
59	2	3	↓	↓	24	↓	↓	↓	↓	↓	✓
60	3	1	↓	↓	25	↓	↓	↓	↓	↓	✓
61	7	3	↓	↓	26	↓	↓	↓	↓	↓	✓
62	10	1	↓	↓	27	↓	↓	↓	↓	↓	✓
63	12	↓	↓	↓	28	↓	↓	↓	↓	↓	✓
64	14	↓	↓	↓	29	↓	↓	↓	↓	↓	✓
65	16	3	↓	↓	30	↓	↓	↓	↓	↓	✓
66	18	↓	↓	↓	31	↓	↓	↓	↓	↓	✓

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14

Review:

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VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS 10098	V8260 35/55	250.0 μm
10075	cc mix	200.0 μm
10111	cc gas	
10093	bs mix	
10108	bs gas	

Daily Saved File

Tune file 1:	U26336
Tune file 2:	N/A
Initial Cal:	2-19-15
ID File:	U150219 w m
ICAL Verified:	U26338
Sequence verified:	IT

Date: 2-23-15

Batch ID: MSU 1107/1108

Analysts GK

Signature: *[Signature]*

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5035 is purge and trap method for soil and water

pH paper LOT#

exp:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U26367	MC36966-19	3	MS33895	bod Screen	32	W	5m	-	1X	22	✓
68		23	1		33						✓
69		24	2		34						✓
70		25	3		35						✓
71		26	2		36						✓
72		4	1		37						✓
73		5	1		38						✓
74		6	3		39						Surf re
75		9	2		40						Surf re
76		11	3		41						Surf re
77		13	1		42						✓
78		15	3		43						✓
79		17	2		44						Surf re
80		20			45						✓
81		21			46						✓
82		22			47						✓
83	blk				48						
84					49						

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14

Review: *[Signature]*

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Standards Data

Lot #	Description	Conc
MS10098	V8200 35/55	250µg/ml
10075	cc mix	200µg/ml
10133	cc gas	
10126	bs mix	
10130	bs gas	

Daily Saved File

Tune file 1:	V26570
Tune file 2:	
Initial Cal:	2-19-15
ID File:	V150219w.m
ICAL Verified:	V26338
Sequence verified:	PM

Date: 3-9-15

Batch ID: MSU1116

Analysts GK

Signature:

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V26568	blk	-	-	V8260	1	W	5mL	-	1X	-	
	69 cc 1106-50	3.1	MS10075 10133		2						
	70 bs	1.1	MS10126 10130		3						✓✓ 9:51AM
	71 bsd	↓	↓		4						
	72 blk	-	-		5						
	73 mb	↓	↓		6						
	74 MC37073-11	1	MS33945	BTXM	7					<2	✓
	75 MC370916-4	↓		STAR	8						✓
	76 ↓ -3	2		↓	9						✓
	77 MC37093-6	3		↓	10						✓ TBA ±3 out
	78 MC37073-10	2		BTXM	11						✓
	79 MC37093-1	↓		STAR	12						✓
	80 ↓ -2	1		↓	13						25X BONTEx 124 NAP
	81 ↓ -4	3		↓	14						4X C/O
	82 MC37094-5	1		BTXM	15						1X H C/O
	83 MC37093-5	2		STAR	16						✓
	84 ↓ -6	1		↓	17				5X		✓
	85 ↓ -6	1		↓	18				↓		✓
	86 MC37073-8		MS33941	EB	19				20X		✓
	87 ↓ -8		↓	↓	20				↓		✓
	88 MC37093-7		MS33945	STAR	21				1X		✓
	89 MC37094-2	↓		BTXM	22						✓ C/O
	90 MC37093-3	2		STAR	23						✓ not targets
	91 MC37096-2	↓		↓	24						20X O ₂ yl
	92 ↓ -1	↓		↓	25						1X C/O
	93 MC37094-1	↓		BTXM	26				↓		✓
	94 ↓ -3	1		↓	27				10X		25X EB, pm, O
	95 ↓ -4	2		↓	28				↓		200X pm L
	96 blk 1	-	-	↓	29				1X	-	9:21pm
	97 ↓ 2	↓		↓	30				↓		
	98 ↓ 3	↓		↓	31				↓		

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14

Review:

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Standards Data

Lot #	Description	Conc
MS10098	V8200 IS/IS	250 µg/ml
10075	CC mix	200 µg/ml
10133	CC GAS	
10126	BS mix	
10130	BS GAS	

Daily Saved File

Tune file 1:	U26661
Tune file 2:	—
Initial Cal:	2-19-15
ID File:	U150219 w.m
ICAL Verified:	U26338
Sequence verified:	<i>my</i>

Date: 3-10-15Batch ID: MSU1117Analysts: GKSignature: *Gay Kinnahan*

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#

exp:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U26599	blk	—	—	V8200	1	w	5ml	—	1X	—	
600	CC100-50	3,1	MS10075 10133		2						
01	bs	1,1	MS10126 10130		3						11/9:56am
02	bsd	↓	↓		4						
03	blk	—	—		5						
04	mb	↓	↓		6						
05	D68173-1	2	MS33938	BTX	7						✓
06	D68174-1	3			8						✓
07	D68173-1	MS			9				5X		✓
08	↓	MSD			10				↓		✓
09	MC37113-3	2			11				20X		✓
10	D68316-1		MS33949		12				1X		✓
11	D68317-1	↓	↓		13						✓
12	D68319-1	↓	↓		14						✓
13	MC37096-2	1	MS33945	STAR	15						✓
14	D68333-1	↓	MS33949	BTX	16						✓
15		2	2		17						✓
16		3	↓		18						✓
17		4	3		19						✓
18		5	↓		20						✓
19		6	1		21						✓
20	D68315-1	3			22						✓
21	D68318-1	1			23						✓
22	D68320-1	↓	↓		24						✓
23	MC37093-2	3	MS33945	BTX 124mg	25				25X		Do not report RSSOX
24		3	1	O xvl	26				20X		✓
25		4	↓	STAR	27				4X		Report RSSOX 124mg
26	MC37094-5	2	↓	BTXm	28				1X		✓
27	blk1	—	—	—	29						9:17pm
28	2	↓	↓		30						
29	3	↓	↓		31						

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14

Review: *[Signature]*

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