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United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: **4/17/2018**

Subject: **Analytical Testing Results - Project R18S50**
SDG: 18093C

From: **Peter Husby, Director**
EPA Region 9 Laboratory
EMD-3-1

To: **Alana Lee**
California Site Cleanup Section 3
SFD-7-3

Attached are the results from the analysis of samples from the **MEW OU3 2018 Air and Sewer Gas Investigation** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Volatile Organic Compounds by GC/MS

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18093C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	04/17/18 08:06
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
F5-054-4ft-7d-wet	1804005-01	Radiello 130	04/02/18 11:50	04/02/18 17:00
F5-054-D-4ft-7d-wet	1804005-02	Radiello 130	04/02/18 11:51	04/02/18 17:00
F5-060-4ft-7d	1804005-03	Radiello 130	04/02/18 12:56	04/02/18 17:00
F5-062-4ft-7d-wet	1804005-04	Radiello 130	04/02/18 12:51	04/02/18 17:00
F6-017-4ft-7d	1804005-05	Radiello 130	04/02/18 13:05	04/02/18 17:00

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Region 9 Laboratory
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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Alana Lee	**California Site Cleanup Section 3**	**SDG:** 18093C
Project Number:	R18S50	**75 Hawthorne Street**	**Reported:** 04/17/18 08:06
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1804005-01									**Radiello 130 - Sampled: 04/02/18 11:50**
Sample ID: F5-054-4ft-7d-wet									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		0.71		0.14	ug/m³ Air	B18D036	04/13/18	04/14/18	Radiello D1
trans-1,2-Dichloroethene		28		0.17	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.12	C1, J	0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	440		17	"	"	"	04/14/18	Radiello D1
Chloroform		29		0.14	"	"	"	04/14/18	Radiello D1
Trichloroethene	RE1	1,100		15	"	"	"	04/14/18	Radiello D1
Tetrachloroethene	RE1	780		17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			101 %	*90-110%*		*"*	*"*	*04/14/18*	
Lab ID: 1804005-02									**Radiello 130 - Sampled: 04/02/18 11:51**
Sample ID: F5-054-D-4ft-7d-wet									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		1.0		0.14	ug/m³ Air	B18D036	04/13/18	04/14/18	Radiello D1
trans-1,2-Dichloroethene		39		0.17	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.17		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	410		17	"	"	"	04/14/18	Radiello D1
Chloroform		39		0.14	"	"	"	04/14/18	Radiello D1
Trichloroethene	RE1	1,100		15	"	"	"	04/14/18	Radiello D1
Tetrachloroethene	RE1	820		17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			102 %	*90-110%*		*"*	*"*	*04/14/18*	
Lab ID: 1804005-03									**Radiello 130 - Sampled: 04/02/18 12:56**
Sample ID: F5-060-4ft-7d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		0.47		0.14	ug/m³ Air	B18D036	04/13/18	04/14/18	Radiello D1
trans-1,2-Dichloroethene		19		0.17	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.08	C1, J	0.17	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	140		17	"	"	"	04/14/18	Radiello D1
Chloroform		30		0.14	"	"	"	04/14/18	Radiello D1
Trichloroethene	RE1	640		15	"	"	"	04/14/18	Radiello D1
Tetrachloroethene	RE1	590		18	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			103 %	*90-110%*		*"*	*"*	*04/14/18*	
Lab ID: 1804005-04									**Radiello 130 - Sampled: 04/02/18 12:51**
Sample ID: F5-062-4ft-7d-wet									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		0.44		0.14	ug/m³ Air	B18D036	04/13/18	04/14/18	Radiello D1
trans-1,2-Dichloroethene		10		0.17	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	0.17	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	110		17	"	"	"	04/14/18	Radiello D1
Chloroform		66		0.14	"	"	"	04/14/18	Radiello D1
Trichloroethene	RE1	300		15	"	"	"	04/14/18	Radiello D1
Tetrachloroethene	RE1	250		18	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			102 %	*90-110%*		*"*	*"*	*04/14/18*	

United States Environmental Protection Agency
Region 9 Laboratory
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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18093C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	04/17/18 08:06
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1804005-05									**Radiello 130 - Sampled: 04/02/18 13:05**
Sample ID: F6-017-4ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.14	ug/m³ Air	B18D036	04/13/18	04/14/18	Radiello D1
trans-1,2-Dichloroethene		ND	U	0.17	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	0.17	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	0.17	"	"	"	"	Radiello D1
Chloroform		33		0.14	"	"	"	"	Radiello D1
Trichloroethene		4.6		0.15	"	"	"	"	Radiello D1
Tetrachloroethene		0.92		0.18	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			104 %	*90-110%*		"	"	"	

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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18093C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	04/17/18 08:06
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

Volatile Organic Compounds Collected on Passive Air Sampling Devices - Quality Control

EPA Region 9 Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B18D036 - Passive Air Sampler										
Blank (B18D036-BLK1)				Prepared: 04/13/18 Analyzed: 04/14/18						
1,1-Dichloroethene	ND	0.13	ug/m³ Air							U
trans-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U
1,1-Dichloroethane	ND	0.16	ug/m³ Air							U
cis-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U
Chloroform	ND	0.13	ug/m³ Air							U
Trichloroethene	ND	0.14	ug/m³ Air							U
Tetrachloroethene	ND	0.17	ug/m³ Air							U
Surrogate: Toluene-d8	*1030*		ug/m³ Air	*992*		*104*	*90-110*			
LCS (B18D036-BS1)				Prepared: 04/13/18 Analyzed: 04/14/18						
1,1-Dichloroethene	11.8	0.13	ug/m³ Air	13.1		90	49-125			
trans-1,2-Dichloroethene	15.1	0.16	ug/m³ Air	16.0		95	47-131			
1,1-Dichloroethane	14.7	0.16	ug/m³ Air	15.7		93	53-126			
cis-1,2-Dichloroethene	15.3	0.16	ug/m³ Air	16.0		96	58-127			
Chloroform	11.9	0.13	ug/m³ Air	13.2		90	61-128			
1,1,1-Trichloroethane	15.0	0.16	ug/m³ Air	16.0		94	60-120			
Carbon tetrachloride	13.6	0.15	ug/m³ Air	14.8		92	65-125			
1,2-Dichloroethane	12.1	0.13	ug/m³ Air	12.9		94	67-127			
Trichloroethene	13.7	0.14	ug/m³ Air	14.4		95	65-116			
Toluene	11.6	0.13	ug/m³ Air	13.4		87	64-124			
1,1,2-Trichloroethane	13.7	0.15	ug/m³ Air	15.0		91	83-110			
Tetrachloroethene	15.5	0.17	ug/m³ Air	16.8		92	58-118			
Chlorobenzene	12.8	0.15	ug/m³ Air	14.6		88	59-119			
1,1,1,2-Tetrachloroethane	15.7	0.17	ug/m³ Air	16.5		95	69-129			
Ethylbenzene	14.4	0.15	ug/m³ Air	14.6		98	69-129			
m&p-Xylene	26.8	0.28	ug/m³ Air	28.3		95	66-126			
o-Xylene	13.6	0.15	ug/m³ Air	15.3		89	59-119			
1,1,2,2-Tetrachloroethane	14.7	0.17	ug/m³ Air	16.5		89	62-122			
1,3,5-Trimethylbenzene	16.9	0.19	ug/m³ Air	18.7		90	68-128			
1,2,4-Trimethylbenzene	17.0	0.20	ug/m³ Air	19.8		86	63-123			
Naphthalene	3.91	0.20	ug/m³ Air	19.8		20	20-110			
Surrogate: Toluene-d8	*1030*		ug/m³ Air	*992*		*103*	*90-110*			

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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18093C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	04/17/18 08:06
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

Volatile Organic Compounds Collected on Passive Air Sampling Devices - Quality Control

EPA Region 9 Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B18D036 - Passive Air Sampler										
LCS Dup (B18D036-BSD1)				Prepared: 04/13/18 Analyzed: 04/14/18						
1,1-Dichloroethene	11.3	0.13	ug/m³ Air	13.1		86	49-125	4	38	
trans-1,2-Dichloroethene	15.1	0.16	ug/m³ Air	16.0		94	47-131	0.2	14	
1,1-Dichloroethane	14.6	0.16	ug/m³ Air	15.7		93	53-126	0.6	31	
cis-1,2-Dichloroethene	15.5	0.16	ug/m³ Air	16.0		97	58-127	1	28	
Chloroform	12.3	0.13	ug/m³ Air	13.2		93	61-128	3	20	
1,1,1-Trichloroethane	15.7	0.16	ug/m³ Air	16.0		98	60-120	5	27	
Carbon tetrachloride	14.5	0.15	ug/m³ Air	14.8		98	65-125	6	20	
1,2-Dichloroethane	12.6	0.13	ug/m³ Air	12.9		98	67-127	4	20	
Trichloroethene	14.4	0.14	ug/m³ Air	14.4		100	65-116	5	22	
Toluene	12.3	0.13	ug/m³ Air	13.4		92	64-124	6	20	
1,1,2-Trichloroethane	14.3	0.15	ug/m³ Air	15.0		95	83-110	5	20	
Tetrachloroethene	16.8	0.17	ug/m³ Air	16.8		100	58-118	8	24	
Chlorobenzene	13.7	0.15	ug/m³ Air	14.6		94	59-119	7	20	
1,1,1,2-Tetrachloroethane	16.9	0.17	ug/m³ Air	16.5		102	69-129	7	20	
Ethylbenzene	15.2	0.15	ug/m³ Air	14.6		104	69-129	6	20	
m&p-Xylene	28.2	0.28	ug/m³ Air	28.3		99	66-126	5	20	
o-Xylene	14.4	0.15	ug/m³ Air	15.3		94	59-119	6	20	
1,1,2,2-Tetrachloroethane	15.7	0.17	ug/m³ Air	16.5		95	62-122	7	20	
1,3,5-Trimethylbenzene	17.9	0.19	ug/m³ Air	18.7		96	68-128	6	20	
1,2,4-Trimethylbenzene	18.0	0.20	ug/m³ Air	19.8		91	63-123	6	20	
Naphthalene	4.26	0.20	ug/m³ Air	19.8		21	20-110	9	20	
Surrogate: Toluene-d8	*1030*		ug/m³ Air	*992*		*104*	*90-110*			
Batch S18D063 - B18D036										
Instrument Blank (S18D063-IBL1)				Prepared & Analyzed: 04/14/18						
1,1-Dichloroethene	ND	0.0	ug/L							U
trans-1,2-Dichloroethene	ND	0.0	ug/L							U
1,1-Dichloroethane	ND	0.0	ug/L							U
cis-1,2-Dichloroethene	ND	0.0	ug/L							U
Chloroform	ND	0.0	ug/L							U
1,1,1-Trichloroethane	ND	0.0	ug/L							U
Carbon tetrachloride	ND	0.0	ug/L							U
1,2-Dichloroethane	ND	0.0	ug/L							U
Trichloroethene	ND	0.0	ug/L							U
Toluene	ND	0.0	ug/L							U
1,1,2-Trichloroethane	ND	0.0	ug/L							U
Tetrachloroethene	ND	0.0	ug/L							U
Chlorobenzene	ND	0.0	ug/L							U
1,1,1,2-Tetrachloroethane	ND	0.0	ug/L							U
Ethylbenzene	ND	0.0	ug/L							U
m&p-Xylene	ND	0.0	ug/L							U
o-Xylene	ND	0.0	ug/L							U

United States Environmental Protection Agency
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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18093C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	04/17/18 08:06
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

Volatile Organic Compounds Collected on Passive Air Sampling Devices - Quality Control

EPA Region 9 Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch S18D063 - B18D036										
Instrument Blank (S18D063-IBL1)				Prepared & Analyzed: 04/14/18						
1,1,2,2-Tetrachloroethane	ND	0.0	ug/L							U
1,3,5-Trimethylbenzene	ND	0.0	ug/L							U
1,2,4-Trimethylbenzene	ND	0.0	ug/L							U
Surrogate: Toluene-d8	*0.00*		ug/L				*90-110*			*U*

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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18093C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	04/17/18 08:06
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

Qualifiers and Comments

J	The reported result for this analyte should be considered an estimated value.
C1	The reported concentration for this analyte is below the quantitation limit.
U	Not Detected
NR	Not Reported
RE1, RE2, etc:	Result is from a sample re-analysis.

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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	18093C
Project Number:	R18S50	**75 Hawthorne Street**		**Reported:**	04/17/18 08:06
Project:	MEW OU3 2018 Air and Sewer Gas Investigation	**San Francisco CA, 94105**			

WORK ORDER

Printed: 4/3/2018 5:36:39PM

1804005

EPA Region 9 Laboratory

Client: **California Site Cleanup Section 3**
Project: **MEW OU3 2018 Air and Sewer Gas Investigation**
Project Number: **R18S50**

Report To:
California Site Cleanup Section 3
Alana Lee
75 Hawthorne Street
San Francisco, CA 94105
Phone: (415) 972-3141
Fax: (415) 947-3526

Project Contact
California Site Cleanup Section 3
Alana Lee
75 Hawthorne Street
San Francisco, CA 94105
Phone :(415) 972-3141
Fax: (415) 947-3526

Shipping Containers	Description	Temp C	Custody Seals?	Containers Intact?	Labels COC Agree?	Preservation Confirmed?	Received on Ice?	Comments
Cooler 1	Cooler	25	Yes	Yes	Yes	No	No	

Date Due:	04/16/18 17:00 (14 day TAT)	SDG:	18093C
Received By:	Richard Bauer	Date Received:	04/02/18 17:00
Logged In By:	Junn Masongsong	Date Logged In:	04/03/18 16:42

Analysis	Hold Time Expires	Comments
1804005-01 F5-054-4ft-7d-wet [Radiello 130] Sampled 04/02/18 11:50 (GMT-08:00) Pacific Time (US &		**XI088**
VOCs, Passive Samplers	09/29/18	7 analytes
1804005-02 F5-054-D-4ft-7d-wet [Radiello 130] Sampled 04/02/18 11:51 (GMT-08:00) Pacific Time (US &		**XI089**
VOCs, Passive Samplers	09/29/18	7 analytes
1804005-03 F5-060-4ft-7d [Radiello 130] Sampled 04/02/18 12:56 (GMT-08:00) Pacific Time (US &		**XI090**
VOCs, Passive Samplers	09/29/18	7 analytes
1804005-04 F5-062-4ft-7d-wet [Radiello 130] Sampled 04/02/18 12:51 (GMT-08:00) Pacific Time (US &		**XI091**
VOCs, Passive Samplers	09/29/18	7 analytes
1804005-05 F6-017-4ft-7d [Radiello 130] Sampled 04/02/18 13:05 (GMT-08:00) Pacific Time (US &		**XI092**
VOCs, Passive Samplers	09/29/18	7 analytes

Reviewed By

Date

U.S. Environmental Protection Agency

CHAIN OF CUSTODY RECORD

EPA REGION 9
75 Hawthorne Street
San Francisco, California 94105

EPA R9 Case Number: R18S50 - MEW (M6) - OU3

Project Name: **2018 MEW OU3 Sewer**

EPA Project Manager contact: Alana Lee, 415-972-3141 Lee.Alana@epa.gov

Laboratory: **EPA R9 Richmond Lab**

Samplers: *(Signature)* Alana Lee

COMMENTS: TCE, PCE, 1,1- DCA, cis- and trans-1,2-DCE,1,1-DCE, chloroform - Report in ug/m3

Start Date End Date	Start End Time Time	Matrix	Comp	EPA ID Number	Unique ID	Number of Containers	RAD130 - Solvent Extraction	Temp (start-avg) - degree F	Temp (stop-avg) - degree F	TCE screen (ug/m3-if available)	
03/26/18 04/02/18	12:55 11:50	AIR	X	F5-054-4ft-7d-wet	XI088	1	1	66	68	200-1200	wet
03/26/18 04/02/18	12:56 11:51	AIR	X	F5-054-D-4ft-7d-wet	XI089	1	1	66	68	250-1200	wet
03/26/18 04/02/18	16:20 12:56	AIR	X	F5-060-4ft-7d	XI090	1	1	66	68	300-700	dry
03/26/18 04/02/18	16:10 12:51	AIR	X	F5-062-4ft-7d-wet	XI091	1	1	66	68	40-180	wet
03/26/18 04/02/18	16:35 13:05	AIR	X	F6-017-4ft-7d	XI092	1	1	66	68	20-40	dry

4/2/2018

Relinquished by: *(Signature)* Alana Lee Date/Time 4/2/18 1700 Hand Delivery

Received for Laboratory by: *(Signature)* RMM Date/Time 4/2/18 1700

Relinquished by: *(Signature)* Date/Time

Temp 24.7 | Seals Intact? (Y/N) | Conditions / Remarks

Table of Contents

Cooler/Box/Env 1 of 1

U.S. Environmental Protection Agency
Region 9 Richmond Laboratory

1337 South 46th Street
Richmond, CA 94804

Sample Receipt Checklist

Note in WO memo any items outside acceptable limits.

Project No: R18550 **Work Order No(s):** 1804005 **Date:** 4/3/18 **by** JDM

CUSTODY SEALS Are Intact? ☒ Yes ☐ No ☐ N/A-none

Check if applies: ☒ External Seals ☐ Internal Seals ☒ Hand Delivered

TEMPERATURE 24.7 °C

Within Acceptable Range? (If preservation is "store cool at 4°C," use 0-6°C for acceptable range.) ☐ Yes ☐ No ☒ Ambient OK

Measured by: ☒ IR thermometer ☐ Probe thermometer inserted in provided temp. blank

☐ Provided Temp Blank was not used because _____

Check if applies: ☐ No ice present ☐ Insufficient/Melted Ice ☐ Tissue Received Frozen

☐ Still cooling (sampled today & iced) ☐ Delivery Delay ☐ Previously Frozen

SAMPLE CONTAINERS Are Intact? ☒ Yes ☐ No

Check if applies and identify sample IDs in comments:

☐ Bottle/Jar/Vial broken ☐ Cap broken or loose ☐ Insufficient sample amount

☐ Other _____

CHAIN OF CUSTODY

COC forms are present? ☒ Yes ☐ No

COC forms are consistent with sample labels? ☒ Yes ☐ No ☐ N/A-no COC form

Check if applies: ☐ Missing "relinquished by" signature

TAT and analyses match TDF or scheduling? ☒ Yes ☐ No

Check if applies: ☐ Preliminary Results ☐ Rush Request ☐ 7-day TAT

Samples are received within hold times? ☒ Yes ☐ No ☐ N/A-no hold times

Check if applies: ☐ Expires today; notify analyst ☐ Expired

All shipping and sample containers are accounted for? ☒ Yes ☐ No

PRESERVATION / FILTRATION

Samples were filtered in field? ☐ Yes ☐ No ☒ N/A

Filtration is correctly identified on samples? ☐ Yes ☐ No ☒ N/A

Check if applies: ☐ Analyst to filter

Samples were preserved in field? ☐ Yes ☐ No ☒ N/A

Check if applies: ☐ Analyst to preserve ☐ Sample Receiving to preserve (see page 2)

Preservation is correctly identified on samples? ☐ Yes ☐ No ☒ N/A

Field-preserved samples (excluding VOA vials for VOC analyses) have correct pH? ☐ Yes ☐ No ☒ N/A

Check if applies: ☐ Notify analyst to check for methyl mercury analysis

Check if verified:

Sulfide: ☐ pH >9 NaOH/Zinc acetate

Cyanide: ☐ pH >12 NaOH

Cr6: ☐ pH >8.5 (if <8.5, adjust to 8.5-9.5)

Metals: ☐ pH <2 HNO_3

TOC/DOC: ☐ pH <2 H_2SO_4/H_3PO_4 (not HCl)

Ammonia / Nitrate/Nitrite / TKN / Phosphorus: ☐ pH <2 H2SO4

Ferrous Iron: ☐ pH <2 HCl

Other: _____

FOLLOW-UP / COMMENTS / UNUSUAL CHARACTERISTICS OBSERVED (for example, sample is pink):

_____

FORM #: Q016
REV #: DRAFT
REV. DATE: 12/15/17

Exposure Time in Minutes

	Sample number	Retrieved Date (XX/XX/XXXX)	Retrieved Time	Deployed Date	Deployed Time	Minutes	Start temp C	End temp C	Avg temp K	Plate #
1	F5-054-4ft-7d-wet	04/02/18	11:50	03/26/18	12:55	10015	18.89	20.00	292.60	XI088
2	F5-054-D-4ft-7d-wet	04/02/18	11:51	03/26/18	12:56	10015	18.89	20.00	292.60	XI089
3	F5-060-4ft-7d	04/02/18	12:56	03/26/18	16:20	9876	18.89	20.00	292.60	XI090
4	F5-062-4ft-7d-wet	04/02/18	12:51	03/26/18	16:10	9881	18.89	20.00	292.60	XI091
5	F6-017-4ft-7d	04/02/18	13:05	03/26/18	16:35	9870	18.89	20.00	292.60	XI092

Table of Contents

BATCH

B18D036

Batch Date: 04/05/2018

Batch Matrix: Radiello 130

Batch Analyses:

VOCs, Passive Samplers

PREPARATION BENCH SHEET

B18D036

EPA Region 9 Laboratory

Project: R18S49
Project: R18S50

Printed: 4/13/2018 10:03:06AM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sample** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 1745041**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Prepared by	Extraction Comments
1804003-01 A	RES158-FR1-BZ-7d	04/13/18 10:27	1	2				50	RH	7 analytes
1804003-02 A	RES10-FR1-BZ-7d	04/13/18 10:27	1	2				50	RH	7 analytes
1804003-03 A	RES10-OUT-7d	04/13/18 10:27	1	2				50	RH	7 analytes
1804004-01 A	F6-006-4ft-7d-wet	04/13/18 10:27	1	2				50	RH	7 analytes
1804004-02 A	F6-010-4ft-7d	04/13/18 10:27	1	2				50	RH	7 analytes
1804004-03 A	F6-055-3ft-7d	04/13/18 10:27	1	2				50	RH	7 analytes
1804004-04 A	G6-010-3ft-7d	04/13/18 10:27	1	2				50	RH	7 analytes
1804005-01 A	F5-054-4ft-7d-wet	04/13/18 10:27	1	2				50	RH	7 analytes
1804005-02 A	F5-054-D-4ft-7d-wet	04/13/18 10:27	1	2				50	RH	7 analytes
1804005-03 A	F5-060-4ft-7d	04/13/18 10:27	1	2				50	RH	7 analytes
1804005-04 A	F5-062-4ft-7d-wet	04/13/18 10:27	1	2				50	RH	7 analytes
1804005-05 A	F6-017-4ft-7d	04/13/18 10:27	1	2				50	RH	7 analytes
B18D036-BLK1	Blank	04/13/18 10:27	1	2				50	RH	
B18D036-BS1	LCS	04/13/18 10:27	1	2		1652067	5	50	RH	
B18D036-BSD1	LCS Dup	04/13/18 10:27	1	2		1652067	5	50	RH	
B18D036-MRL1	MRL Check	04/13/18 10:27	1	2		1806048	5	50	RH	

Batch Comments

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PREPARATION BENCH SHEET

B18D036

EPA Region 9 Laboratory

Project: R18S49
Project: R18S50

Printed: 4/13/2018 10:03:06AM

Matrix: Radiello 13 **Analysis: QC** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 1745041**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Prepared by	Extraction Comments

Reagents

Reagent #	Description
1727126	passive air Radiello tubes
1810050	Carbon disulfide

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Calibration

1804008

Calibration Date: 04/16/2018

Instrument: AG5975CV

Calibration Analyses:

VOCs, Passive Samplers

Response Factor Report AG5975C

Method Path : C:\msdchem\1\Ravioli Methods\2018\
Method File : 041418.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Mon Apr 16 09:30:40 2018
Response Via : Initial Calibration

Calibration Files
25 =04141803.D 10 =04141804.D 5 =04141805.D 1 =04141806.D .15 =04141807.D .05 =04141808.D

		Compound	25	10	5	1	.15	.05	Avg	%RSD
1)	I	2-Fluorotoluene	----------ISTD----------							
2)	T	1,1-Dichloroet...	0.233	0.218	0.195	0.206	0.238	0.227	0.219	7.39
3)	T	trans-1,2-Dich...	0.225	0.223	0.201	0.219	0.254	0.223	0.224	7.64
4)	T	1,1-Dichloroet...	0.292	0.292	0.265	0.290	0.321	0.332	0.299	8.06
5)	T	cis-1,2-Dichlo...	0.271	0.277	0.254	0.276	0.300	0.279	0.276	5.43
6)	T	Chloroform	0.300	0.311	0.286	0.311	0.351	0.391	0.325	12.01
7)	T	1,1,1-Trichlor...	0.299	0.312	0.289	0.309	0.354	0.340	0.317	7.84
8)	T	Carbon tetrach...	0.274	0.286	0.268	0.289	0.311	0.310	0.289	6.16
9)	T	Benzene	0.730	0.772	0.729	0.806	0.968		0.801	12.31
10)	T	1,2-Dichloroet...	0.258	0.275	0.260	0.286	0.300	0.297	0.279	6.52
11)	T	Trichloroethene	0.209	0.221	0.210	0.225	0.228	0.231	0.221	4.16
12)	S	Toluene-d8	0.789	0.846	0.824	0.851	0.859	0.865	0.839	3.35
13)	T	Toluene	0.910	0.982	0.982	1.027	1.131	1.306	1.056	13.47
14)	T	1,1,2-Trichlor...	0.217	0.229	0.224	0.230	0.247	0.253	0.233	5.96
15)	T	Tetrachloroethene	0.266	0.293	0.286	0.295	0.297	0.300	0.290	4.25
16)	T	Chlorobenzene	0.679	0.769	0.753	0.769	0.731	0.765	0.744	4.71
17)	T	1,1,1,2-Tetrac...	0.225	0.253	0.247	0.253	0.255	0.254	0.248	4.56
18)	T	Ethylbenzene	1.035	1.228	1.222	1.265	1.194	1.251	1.199	7.01
19)	T	m&p-Xylene	0.788	0.949	0.951	0.989	0.934	1.019	0.938	8.53
)	T	o-Xylene	0.844	1.022	1.020	1.028	0.981	1.037	0.989	7.42
)	T	1,1,2,2-Tetrac...	0.404	0.482	0.475	0.476	0.454	0.463	0.459	6.24
)	T	1,3,5-Trimethy...	0.960	1.124	1.249	1.126	1.325	1.158	1.157	10.78
)	T	1,2,4-Trimethy...	0.998	1.144	1.308	1.150	1.240	1.223	1.177	9.09
)	T	Naphthalene	1.743	1.826	2.360	1.923	2.244	2.130	2.038	12.01
)		2-Fluorotoluen...			0.483				0.483	0.00
)		1,1-Dichloroet...			0.107				0.107	0.00
)		trans-1,2-Dich...			0.105				0.105	0.00
)		1,1-Dichloroet...			0.161				0.161	0.00
)		cis-1,2-Dichlo...			0.126				0.126	0.00
)		Chloroform SCAN			0.152				0.152	0.00
)		1,1,1-Trichlor...			0.191				0.191	0.00
)		Carbon tetrach...			0.137				0.137	0.00
)		Benzene SCAN			0.416				0.416	0.00
)		1,2-Dichloroet...			0.158				0.158	0.00
)		Trichloroethen...			0.105				0.105	0.00
)		Toluene-d8 SCAN			0.424				0.424	0.00
)		Toluene SCAN			0.474				0.474	0.00
)		1,1,2-Trichlor...			0.145				0.145	0.00
)		Tetrachloroeth...			0.155				0.155	0.00
)		Chlorobenzene ...			0.373				0.373	0.00
)		1,1,1,2-Tetrac...			0.121				0.121	0.00
)		Ethylbenzene SCAN			0.622				0.622	0.00

All results reported from SIM (compounds #1-24). SCAN (compounds #25-48) are for qualitative purposes only. RH 4/16/18

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Response Factor Report AG5975C

Method Path : C:\msdchem\1\Ravioli Methods\2018\
Method File : 041418.M

43)	m&p-Xylene SCAN	1.012	1.012	0.00
44)	o-Xylene SCAN	0.548	0.548	0.00
45)	1,1,2,2-Tetrac...	0.287	0.287	0.00
46)	1,3,5-Trimethy...	0.630	0.630	0.00
47)	1,2,4-Trimethy...	0.635	0.635	0.00
48)	Naphthalene SCAN	1.023	1.023	0.00

49) I Fluorobenzene ----------ISTD----------

(#) = Out of Range

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Table of Contents

Method Path : C:\msdchem\1\Ravioli Methods\2018\
Method File : 041418.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Mon Apr 16 09:30:40 2018
Response Via : Initial Calibration

Total Cpnds : 49

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	2-Fluorotoluene	-109	11.033	1.000	A	1	A	B
2	T	1,1-Dichloroethene	-61	3.097	0.281	A	1	A	B
3	T	trans-1,2-Dichloroethene	-61	4.303	0.390	A	1	A	B
4	T	1,1-Dichloroethane	-63	5.066	0.459	A	1	A	B
5	T	cis-1,2-Dichloroethene	-61	6.101	0.553	A	1	A	B
6	T	Chloroform	-83	6.676	0.605	A	1	A	B
7	T	1,1,1-Trichloroethane	-97	6.932	0.628	A	2	A	B
8	T	Carbon tetrachloride	-117	7.211	0.654	A	1	A	B
9	T	Benzene	-78	7.540	0.683	A	1	A	B
10	T	1,2-Dichloroethane	-62	7.588	0.688	A	1	A	B
11	T	Trichloroethene	-130	8.619	0.781	A	3	A	B
12	S	Toluene-d8	-98	10.540	0.955	A	1	A	B
13	T	Toluene	-91	10.634	0.964	A	1	A	B
14	T	1,1,2-Trichloroethane	-97	11.296	1.024	A	1	A	B
15	T	Tetrachloroethene	-166	11.495	1.042	A	1	A	B
16	T	Chlorobenzene	-112	12.829	1.163	A	1	A	B
17	T	1,1,1,2-Tetrachloroethane	-131	12.980	1.176	A	1	A	B
18	T	Ethylbenzene	-91	13.036	1.182	A	2	A	B
19	T	m&p-Xylene	-91	13.226	1.199	A	2	A	B
20	T	o-Xylene	-91	13.846	1.255	A	1	A	B
21	T	1,1,2,2-Tetrachloroethane	-83	14.944	1.354	A	1	A	B
22	T	1,3,5-Trimethylbenzene	-105	15.408	1.397	A	1	A	B
23	T	1,2,4-Trimethylbenzene	-105	15.949	1.446	A	1	A	B
24	T	Naphthalene	-128	17.932	1.625	A	1	A	B
25		2-Fluorotoluene SCAN	109	11.032	1.000	A	1	A	B
26		1,1-Dichloroethene SCAN	61	3.092	0.280	A	2	A	B
27		trans-1,2-Dichloroethene SCAN	61	4.308	0.390	A	2	A	B
28		1,1-Dichloroethane SCAN	63	5.065	0.459	A	2	A	B
29		cis-1,2-Dichloroethene SCAN	61	6.106	0.553	A	3	A	B
30		Chloroform SCAN	83	6.675	0.605	A	2	A	B
31		1,1,1-Trichloroethane SCAN	97	6.930	0.628	A	2	A	B
32		Carbon tetrachloride SCAN	117	7.222	0.655	A	3	A	B
33		Benzene SCAN	78	7.538	0.683	A	3	A	B
34		1,2-Dichloroethane SCAN	62	7.587	0.688	A	2	A	B
35		Trichloroethene SCAN	130	8.617	0.781	A	3	A	B
36		Toluene-d8 SCAN	98	10.539	0.955	A	1	A	B
37		Toluene SCAN	91	10.644	0.965	A	2	A	B
38		1,1,2-Trichloroethane SCAN	97	11.284	1.023	A	3	A	B
39		Tetrachloroethene SCAN	166	11.494	1.042	A	3	A	B
40		Chlorobenzene SCAN	112	12.836	1.163	A	3	A	B
41		1,1,1,2-Tetrachloroethane SCAN	131	12.979	1.176	A	3	A	B
42		Ethylbenzene SCAN	91	13.034	1.181	A	2	A	B
43		m&p-Xylene SCAN	91	13.233	1.199	A	3	A	B
44		o-Xylene SCAN	91	13.845	1.255	A	2	A	B
45		1,1,2,2-Tetrachloroethane SCAN	83	14.935	1.354	A	2	A	B
46		1,3,5-Trimethylbenzene SCAN	105	15.412	1.397	A	2	A	B
47		1,2,4-Trimethylbenzene SCAN	105	15.948	1.445	A	3	A	B
48		Naphthalene SCAN	128	17.931	1.625	A	2	A	B
49	I	Fluorobenzene	-96	8.025	1.000	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

041418.M Mon Apr 16 10:02:39 2018

CHEMSTATION CONCENTRATION REPORT

AG5975C
S18D063-SCV1
1745051 5 mg/L
4/14/2018
Mon Apr 16 09:30:40 2018
RH

#	Name	L1	L2	L3	L4	L5	L6
1)	2-Fluorotoluene	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00
2)	1,1-Dichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
3)	trans-1,2-Dichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
4)	1,1-Dichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
5)	cis-1,2-Dichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
6)	Chloroform	25000.00	10000.00	5000.00	1000.00	150.00	50.00
7)	1,1,1-Trichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
8)	Carbon tetrachloride	25000.00	10000.00	5000.00	1000.00	150.00	50.00
9)	Benzene	25000.00	10000.00	5000.00	1000.00	150.00	1.00
10)	1,2-Dichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
11)	Trichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
12)	Toluene-d8	25000.00	10000.00	5000.00	1000.00	150.00	50.00
13)	Toluene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
14)	1,1,2-Trichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
15)	Tetrachloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
16)	Chlorobenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
17)	1,1,1,2-Tetrachloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
18)	Ethylbenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
19)	m&p-Xylene	50000.00	20000.00	10000.00	2000.00	300.00	100.00
20)	o-Xylene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
21)	1,1,2,2-Tetrachloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
22)	1,3,5-Trimethylbenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
23)	1,2,4-Trimethylbenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
24)	Naphthalene	25000.00	10000.00	5000.00	1000.00	150.00	50.00

CHEMSTATION AREA COUNT REPORT

AG5975C
S18D063-SCV1
1745051 5 mg/L
4/14/2018
Mon Apr 16 09:30:40 2018
RH

#	Name	L1	L2	L3	L4	L5	L6
1)	2-Fluorotoluene	75456	130045	92093	121605	75985	139779
2)	1,1-Dichloroethene	87825	56603	17999	5021	542	317
3)	trans-1,2-Dichloroethene	84765	57885	18530	5338	580	312
4)	1,1-Dichloroethane	110037	75913	24443	7043	732	464
5)	cis-1,2-Dichloroethene	102159	72090	23382	6716	685	390
6)	Chloroform	113332	80772	26311	7560	799	547
7)	1,1,1-Trichloroethane	112990	81259	26574	7518	807	475
8)	Carbon tetrachloride	103210	74353	24674	7024	708	433
9)	Benzene	275460	200746	67155	19596	2206	1734
10)	1,2-Dichloroethane	97196	71494	23952	6946	685	415
11)	Trichloroethene	78956	57371	19357	5468	520	323
12)	Toluene-d8	297821	220160	75926	20692	1959	1209
13)	Toluene	343191	255410	90448	24977	2579	1825
14)	1,1,2-Trichloroethane	81802	59606	20663	5586	563	354
15)	Tetrachloroethene	100466	76130	26343	7172	678	419
16)	Chlorobenzene	256188	199991	69377	18703	1666	1069
17)	1,1,1,2-Tetrachloroethane	85032	65741	22765	6142	581	355
18)	Ethylbenzene	390511	319437	112498	30762	2721	1749
19)	m&p-Xylene	594431	493558	175108	48124	4259	2848
20)	o-Xylene	318461	265853	93889	24994	2237	1450
21)	1,1,2,2-Tetrachloroethane	152478	125267	43713	11577	1035	647
22)	1,3,5-Trimethylbenzene	362124	292358	115065	27391	3021	1619
23)	1,2,4-Trimethylbenzene	376341	297452	120456	27979	2826	1710
24)	Naphthalene	657736	474858	217368	46780	5115	2977

SEQUENCE

S18D063

Sequence Date: 04/14/2018

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B18D036	SEQUENCE #:	S18D063 4/14/18
BATCH #:	ICAL	ANALYSIS:	VOA Passive Air.

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
DOCUMENTATION	ANALYST: Bench sheet(s) attached? REVIEWER: Bench sheet(s) reviewed?	☐	Y	Y	
	ANALYST: Sequence log(s) attached? REVIEWER: Sequence log(s) reviewed?	☐	Y	Y	
	ANALYST: Every run has a PDF in LIMS? REVIEWER: Every PDF reviewed?	☐	Y	Y	
INITIAL CALIBRATION	Date of Initial Calibration used: If applicable, note date of "Last Update" in Comments.	Mon Apr 16 09:30:40 2018			
	Initial Calibration ID (LIMS number):	1804008			
	ICAL within QC criteria?	☐	Y	Y	
	SCV within QC criteria?	☐	Y	Y	
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?	☐	Y	Y	
	CCV(s) within QC criteria?	☑			
	QLS(s) within QC criteria?	☑			
	CB(s) or storage blank(s) within QC criteria?	☑			
	Other instrument checks within QC criteria? Specify if applicable.	☑			
BATCH QCs	Method blanks < 1/2 QL?	☐	Y	Y	
	LCS(s) or SRM(s) within QC criteria?	☐	Y	Y	
	MSs/MSDs and/or DUPs within QC criteria?	☑			
	Other method-specific QCs within QC criteria? Specify if applicable.	☑			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B18D036	SEQUENCE #:	S18D063 4/14/18
BATCH #:	ICAL	ANALYSIS:	VOA Passive Air.

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☐	Y	Y	
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	☐	Y	Y	
	Do any samples need to be re-digested or re-extracted?	✔			
	Were all data qualifiers appropriately applied?	☐	Y	Y	
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	✔			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	

APPROVALS	ANALYST INITIALS & DATE:	RH 4/16/18
	REVIEWED BY:	Ziyad Rajabi (affiliate) Digitally signed by Ziyad Rajabi (affiliate) Date: 2018.04.16 15:19:03 -07'00' SIGN HERE

COMMENTS

FORM #: Q015
REV #: 1

Injection Log

Operator: RH
Directory: C:\msdchem\1\Ravioli Data\2018\041418\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	04141801.D	1	S18D063-IBL1		14 Apr 2018 11:08
2	04141802.D	1	S18D063-TUN1	BFB 1806045	14 Apr 2018 11:30
3	04141803.D	1	S18D063-CAL1	1745073 25 mg/L	14 Apr 2018 11:39
4	04141804.D	1	S18D063-CAL2	1745074 10 mg/L	14 Apr 2018 12:03
5	04141805.D	1	S18D063-CAL3	1745075 5 mg/L	14 Apr 2018 12:27
6	04141806.D	1	S18D063-CAL4	1745076 1 mg/L	14 Apr 2018 12:50
7	04141807.D	1	S18D063-CAL5	1745077 0.15 mg/L	14 Apr 2018 13:14
8	04141808.D	1	S18D063-CAL6	1745078 0.05 mg/L	14 Apr 2018 13:38
9	04141809.D	1	S18D063-SCV1	1745051 5 mg/L	14 Apr 2018 14:02
10	04141810.D	1	B18D036-BLK1		14 Apr 2018 14:25
11	04141811.D	1	B18D036-BS1		14 Apr 2018 14:49
12	04141812.D	1	B18D036-BSD1		14 Apr 2018 15:13
13	04141813.D	1	B18D036-MRL1		14 Apr 2018 15:36
14	04141814.D	1	1804003-01		14 Apr 2018 16:00
15	04141815.D	1	1804003-02		14 Apr 2018 16:24
16	04141816.D	1	1804003-03		14 Apr 2018 16:48
17	04141817.D	1	1804004-03		14 Apr 2018 17:12
18	04141818.D	1	1804005-05		14 Apr 2018 17:35
19	04141819.D	100	1804004-01RE1	10 UL- 1 ML	14 Apr 2018 17:59
20	04141820.D	100	1804004-02RE1	10 UL- 1 ML	14 Apr 2018 18:23
21	04141821.D	5	1804004-04RE1	50 UL- 250 UL	14 Apr 2018 18:47
22	04141822.D	100	1804005-01RE1	10 UL- 1 ML	14 Apr 2018 19:10
23	04141823.D	100	1804005-02RE1	10 UL- 1 ML	14 Apr 2018 19:34
24	04141824.D	100	1804005-03RE1	10 UL- 1 ML	14 Apr 2018 19:58
25	04141825.D	100	1804005-04RE1	10 UL- 1 ML	14 Apr 2018 20:21
26	04141826.D	1	1804004-01		14 Apr 2018 20:45
27	04141827.D	1	1804004-02		14 Apr 2018 21:09
28	04141828.D	1	1804004-04		14 Apr 2018 21:33
29	04141829.D	1	1804005-01		14 Apr 2018 21:57
30	04141830.D	1	1804005-02		14 Apr 2018 22:20
31	04141831.D	1	1804005-03		14 Apr 2018 22:44
32	04141832.D	1	1804005-04		14 Apr 2018 23:08

GC/MS QA-QC Check Report

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Tune File : C:\msdchem\1\Ravioli Data\2018\041418\04141802.D
Tune Time : 14 Apr 2018 11:30

Daily Calibration File : C:\msdchem\1\Ravioli Data\2018\041418\04141806.D

File	Sample	Surrogate Recovery %	Internal Standard Responses	
			121605	82290
04141803.D	S18D063-CA	487*	75456	52536
04141804.D	S18D063-CA	209*	130045	100546
04141805.D	S18D063-CA	102	92093	65072
04141806.D	S18D063-CA	21*	121605	82290
04141807.D	S18D063-CA	3*	75985	59057
04141808.D	S18D063-CA	1*	139779	104972
04141809.D	S18D063-SC	101	185572	151656
04141810.D	B18D036-BL	104	97999	65612
04141811.D	B18D036-BS	103	85999	62286
04141812.D	B18D036-BS	104	154829	110016
04141813.D	B18D036-MR	104	74798	52821
04141814.D	1804003-01	105	81350	54380
04141815.D	1804003-02	104	61514	45983
04141816.D	1804003-03	104	100104	69505
04141817.D	1804004-03	103	102502	69065
04141818.D	1804005-05	104	124741	93862
04141819.D	1804004-01	100	84776	66581
04141820.D	1804004-02	100	115562	89702
04141821.D	1804004-04	101	133407	102723
04141822.D	1804005-01	100	157484	121237
04141823.D	1804005-02	99	84519	58209

```
04141824.D
         1804005-03  100                      91387      68036
--------------------------------------------------------------------------
04141825.D
         1804005-04  101                      96302      69088
--------------------------------------------------------------------------
04141826.D
         1804004-01  104                      97398      68285
--------------------------------------------------------------------------
04141827.D
         1804004-02  102                     100409      68409
--------------------------------------------------------------------------
04141828.D
         1804004-04  103                      86416      63894
--------------------------------------------------------------------------
04141829.D
         1804005-01  101                     112450      81201
--------------------------------------------------------------------------
04141830.D
         1804005-02  102                     117453      88934
--------------------------------------------------------------------------
04141831.D
         1804005-03  103                      77631      63916
--------------------------------------------------------------------------
04141832.D
         1804005-04  102                     104243      67386
--------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

    Created: Mon Apr 16 10:04:43 2018  AG5975C
```

Analysis Sequence

S18D063

Project: R18S49
R18S50
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 1804008 Printed: 04/16/2018 12:06 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S18D063-IBL1	Instrument Blank	1	4/14/18 11:08			RH	04141801.D	
S18D063-TUN1	BFB	2	4/14/18 11:30	1806045		RH	04141802.D	
S18D063-CAL1	Cal Standard	3	4/14/18 11:39	1745073		RH	04141803.D	
S18D063-CAL2	Cal Standard	4	4/14/18 12:03	1745074		RH	04141804.D	
S18D063-CAL3	Cal Standard	5	4/14/18 12:27	1745075		RH	04141805.D	
S18D063-CAL4	Cal Standard	6	4/14/18 12:50	1745076		RH	04141806.D	
S18D063-CAL5	Cal Standard	7	4/14/18 13:14	1745077		RH	04141807.D	
S18D063-CAL6	Cal Standard	8	4/14/18 13:38	1745078		RH	04141808.D	
S18D063-SCV1	Secondary Cal Check	9	4/14/18 14:02	1745051		RH	04141809.D	
B18D036-BLK1	Blank	10	4/14/18 14:25			RH	04141810.D	
B18D036-BS1	LCS	11	4/14/18 14:49			RH	04141811.D	
B18D036-BSD1	LCS Dup	12	4/14/18 15:13			RH	04141812.D	
B18D036-MRL1	MRL Check	13	4/14/18 15:36			RH	04141813.D	
1804003-01 A	RES158-FR1-BZ-7d	14	4/14/18 16:00			RH	04141814.D	
1804003-02 A	RES10-FR1-BZ-7d	15	4/14/18 16:24			RH	04141815.D	
1804003-03 A	RES10-OUT-7d	16	4/14/18 16:48			RH	04141816.D	
1804004-03 A	F6-055-3ft-7d	17	4/14/18 17:12			RH	04141817.D	
1804005-05 A	F6-017-4ft-7d	18	4/14/18 17:35			RH	04141818.D	
1804004-01RE1 A	F6-006-4ft-7d-wet	19	4/14/18 17:59			RH	04141819.D	
1804004-02RE1 A	F6-010-4ft-7d	20	4/14/18 18:23			RH	04141820.D	
1804004-04RE1 A	G6-010-3ft-7d	21	4/14/18 18:47			RH	04141821.D	

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Analysis Sequence

S18D063

(Continued)

Project: R18S49
R18S50

Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 1804008 Printed: 04/16/2018 12:06 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
1804005-01RE1 A	F5-054-4ft-7d-wet	22	4/14/18 19:10			RH	04141822.D	
1804005-02RE1 A	F5-054-D-4ft-7d-wet	23	4/14/18 19:34			RH	04141823.D	
1804005-03RE1 A	F5-060-4ft-7d	24	4/14/18 19:58			RH	04141824.D	
1804005-04RE1 A	F5-062-4ft-7d-wet	25	4/14/18 20:21			RH	04141825.D	
1804004-01 A	F6-006-4ft-7d-wet	26	4/14/18 20:45			RH	04141826.D	
1804004-02 A	F6-010-4ft-7d	27	4/14/18 21:09			RH	04141827.D	
1804004-04 A	G6-010-3ft-7d	28	4/14/18 21:33			RH	04141828.D	
1804005-01 A	F5-054-4ft-7d-wet	29	4/14/18 21:57			RH	04141829.D	
1804005-02 A	F5-054-D-4ft-7d-wet	30	4/14/18 22:20			RH	04141830.D	
1804005-03 A	F5-060-4ft-7d	31	4/14/18 22:44			RH	04141831.D	
1804005-04 A	F5-062-4ft-7d-wet	32	4/14/18 23:08			RH	04141832.D	

Sequence Comments

Reagents

Reagent #	Description

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SEQUENCE DATA

S18D063

S18D063-IBL1

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141801.D
Acq On : 14 Apr 2018 11:08
InstName : AG5975C
Operator : RH
Sample : S18D063-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 09:34:07 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

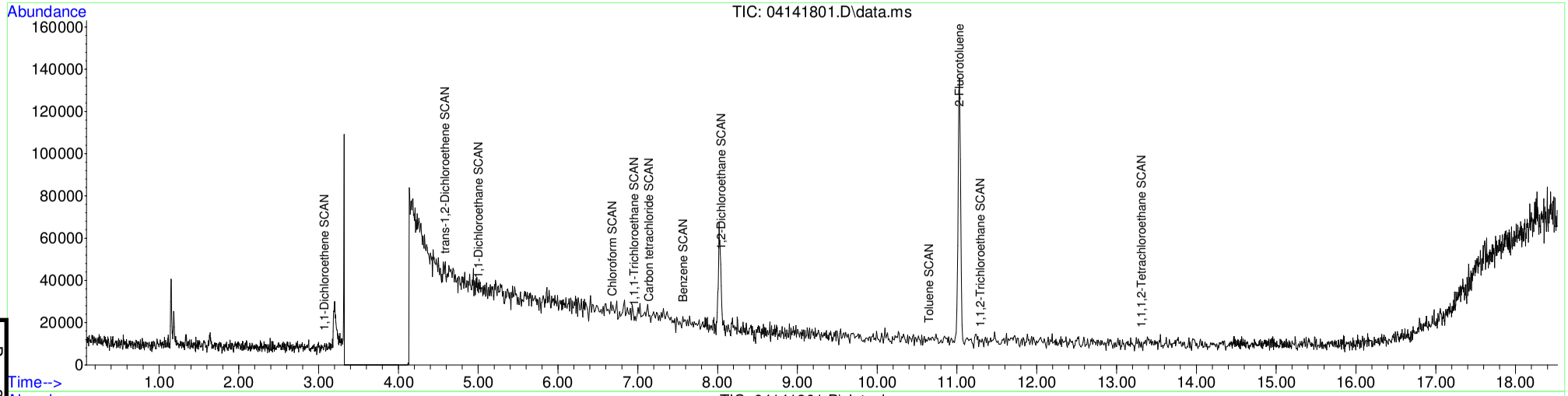
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	206736	5000.00	ug/L	0.00
49) Fluorobenzene	8.025	96	87885	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	0.000	98	0	0.00	ug/L	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
25) 2-Fluorotoluene SCAN	11.032	109	101326	5072.36	ug/L	92
26) 1,1-Dichloroethene SCAN	3.070	61	94	21.23	ug/L #	31
27) trans-1,2-Dichloroethe...	4.580	61	155	35.73	ug/L #	37
28) 1,1-Dichloroethane SCAN	5.005	63	228	34.35	ug/L #	16
30) Chloroform SCAN	6.675	83	407	64.74	ug/L #	38
31) 1,1,1-Trichloroethane ...	6.955	97	474	60.08	ug/L #	29
32) Carbon tetrachloride SCAN	7.137	117	271	47.76	ug/L #	22
33) Benzene SCAN	7.563	78	6294	365.94	ug/L #	50
34) 1,2-Dichloroethane SCAN	8.040	62	770	118.07	ug/L	91
37) Toluene SCAN	10.644	91	459	23.40	ug/L #	18
38) 1,1,2-Trichloroethane ...	11.294	97	377	62.76	ug/L #	17
41) 1,1,1,2-Tetrachloroeth...	13.312	131	195	38.91	ug/L #	6

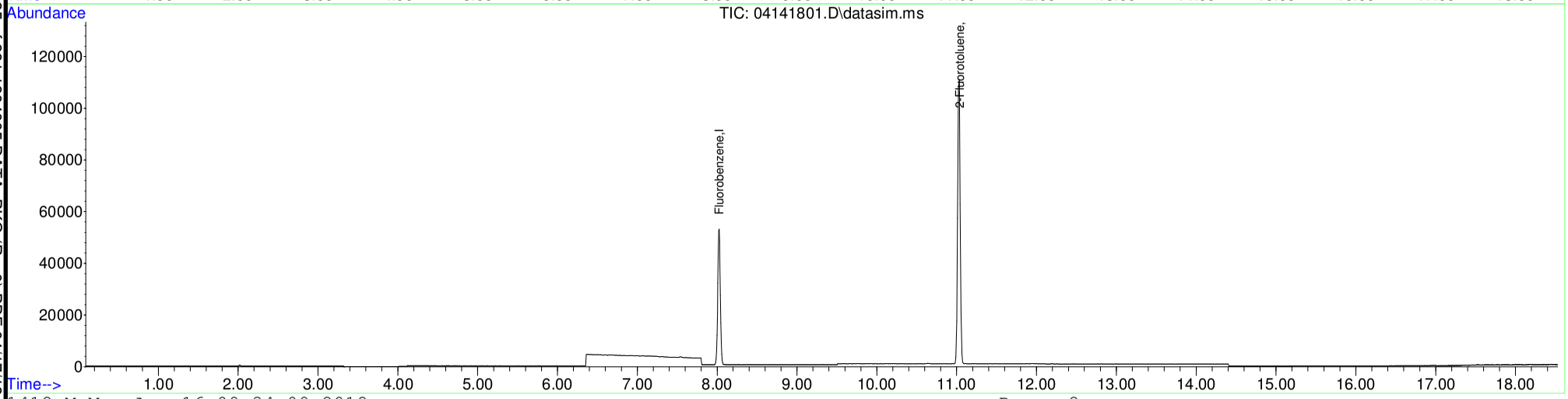
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141801.D
Acq On : 14 Apr 2018 11:08
InstName : AG5975C
Operator : RH
Sample : S18D063-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 09:34:07 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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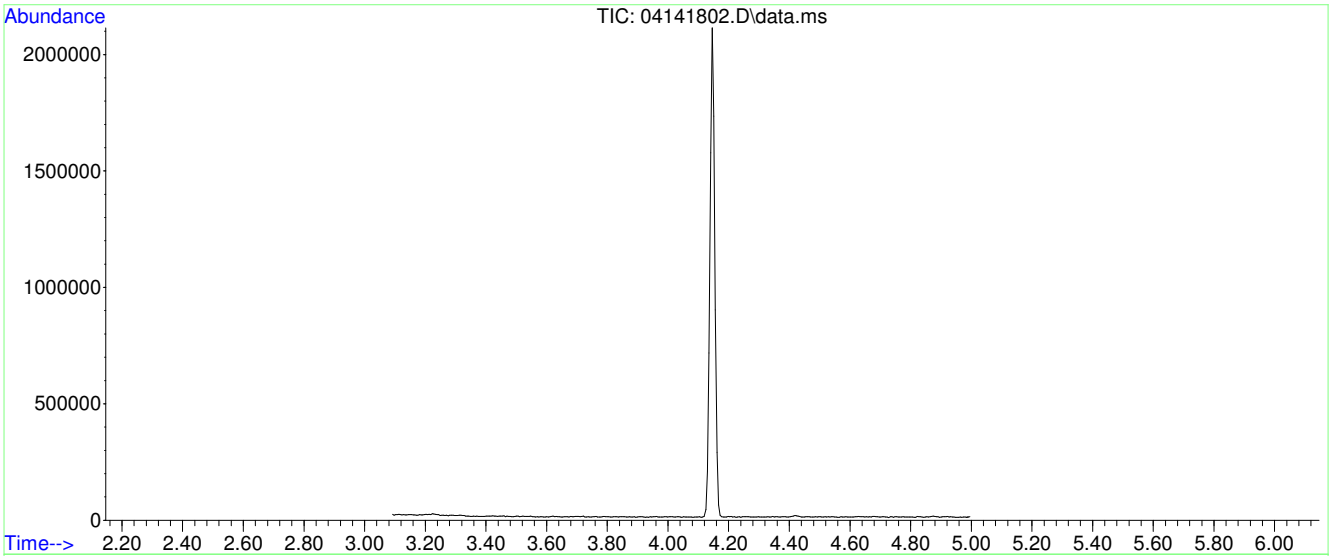
S18D063-TUN1

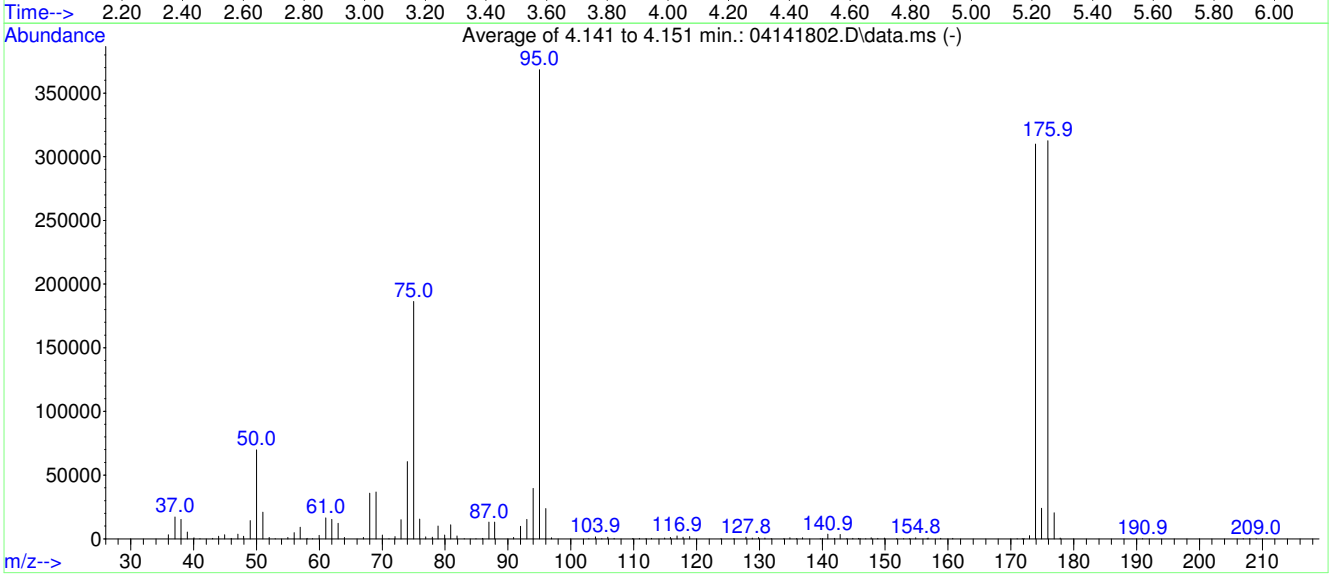
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141802.D
Acq On : 14 Apr 2018 11:30
Operator : RH
Sample : S18D063-TUN1
Misc : BFB 1806045
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Fri Apr 13 14:09:28 2018





AutoFind: Scans 201, 202, 203; Background Corrected with Scan 194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	69731	PASS
75	95	30	60	50.6	186325	PASS
95	95	100	100	100.0	368235	PASS
96	95	5	9	6.5	23832	PASS
173	174	0.00	2	0.8	2532	PASS
174	95	50	120	84.2	309995	PASS
175	174	5	9	7.8	24037	PASS
176	174	95	101	100.8	312469	PASS
177	176	5	9	6.5	20347	PASS

Average of 4.141 to 4.151 min.: 04141802.D\data.ms
S18D063-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	3320	47.95	2086	59.95	2831	73.00	15050
37.05	17261	49.00	14389	61.00	16376	74.00	60637
38.00	15216	50.00	69731	62.00	15219	75.00	186325
39.00	5440	51.00	20931	63.00	12148	75.95	15507
40.05	941	52.00	1116	64.00	1194	76.90	1586
41.00	54	53.00	85	67.00	1115	77.95	1246
43.00	319	55.00	983	68.00	35803	78.90	9941
44.00	2012	56.00	4957	69.00	36712	79.95	3085
44.95	3313	56.95	9066	70.00	3028	80.90	11059
46.00	301	58.05	478	71.10	41	81.90	2351
47.05	3689	58.90	85	72.05	1896	83.05	169

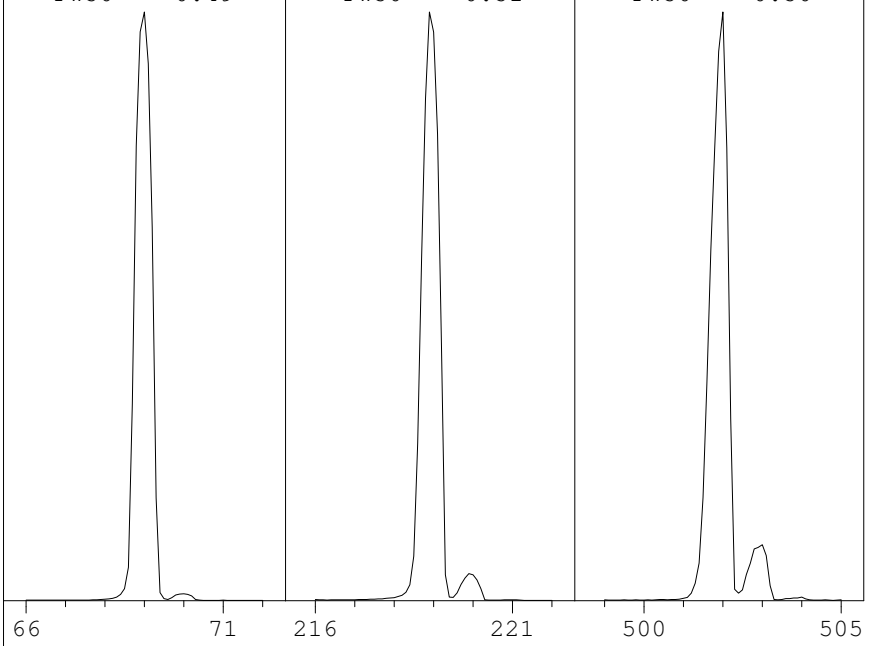
Average of 4.141 to 4.151 min.: 04141802.D\data.ms
S18D063-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
84.90	38	102.85	223	116.90	2378	134.85	743
85.95	280	103.90	1471	117.85	1353	135.90	140
86.95	13104	104.95	250	118.90	1721	136.85	771
87.90	13111	105.90	1390	123.90	231	139.70	93
90.90	1093	106.90	378	125.95	150	140.00	88
92.00	9912	109.80	84	127.85	1226	140.90	3585
93.00	15197	110.90	319	128.85	685	141.95	484
94.00	39581	111.95	229	129.85	1080	142.85	3498
95.00	368235	112.85	444	130.90	539	143.90	220
96.00	23832	114.95	500	131.90	57	144.85	395
96.95	865	115.85	1105	133.90	56	145.75	425

Average of 4.141 to 4.151 min.: 04141802.D\data.ms
S18D063-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
146.00	92	158.85	344	190.95	119		
146.90	205	160.75	483	206.95	56		
147.80	871	171.00	59	208.00	57		
148.85	336	171.80	131	209.00	74		
149.90	507	172.10	95				
151.80	104	172.95	2532				
152.95	149	173.90	309995				
153.85	195	174.90	24037				
154.85	836	175.90	312469				
156.70	136	176.90	20347				
156.85	502	177.85	534				

Mass	69.00	Mass	218.90	Mass	502.00
Ab	835759	Ab	483655	Ab	16689
Pw50	0.49	Pw50	0.51	Pw50	0.50

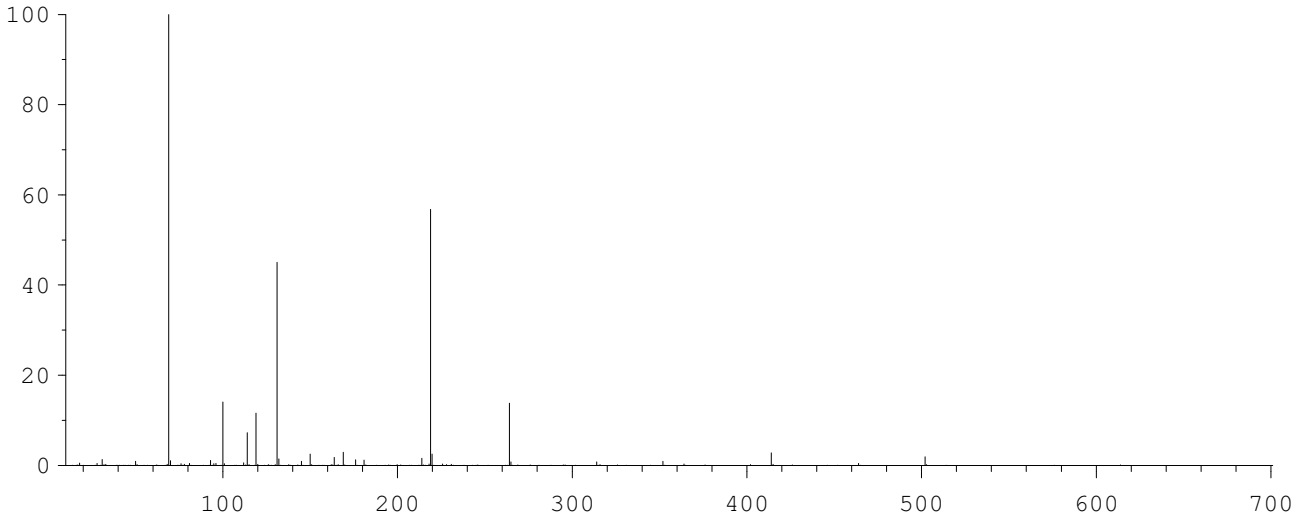


Ion Pol	Pos	MassGain	-1187
		MassOffs	-40
Emission	34.6	AmuGain	970
EIEnrgy	69.9	AmuOffs	129.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	70.2	HEDEnab	On
EntLens	0.0	EMVolts	1188
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
164 peaks Base: 69.00 Abundance: 793664



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	793664	100.00	70.00	8451	1.06
219.00	450816	56.80	219.90	19920	4.42
502.00	15202	1.92	503.00	1582	10.41

Air/Water Check: H20~0.52% N2~0.42% O2~0.21% CO2~0.04% N2/H2O~80.68%

Column(1) Flow: 1 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 51051
Repeller Maximum 30 volts using ion 219; Gain Factor 0.51

MassGain Values(Samples): -1179(3) -1174(2) -1159(1) -1120(0) -1077(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	129.9	129.9	129.9	129.9	129.9	129.9	129.9
Entrance Lens Offset:	15.3	14.8	15.3	16.8	17.6	18.6	18.6
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	0.9	100.0	45.0	56.8	2.8	1.9	

S18D063-CAL1

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141803.D
Acq On : 14 Apr 2018 11:39
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL1
Misc : 1745073 25 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 16 09:25:21 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

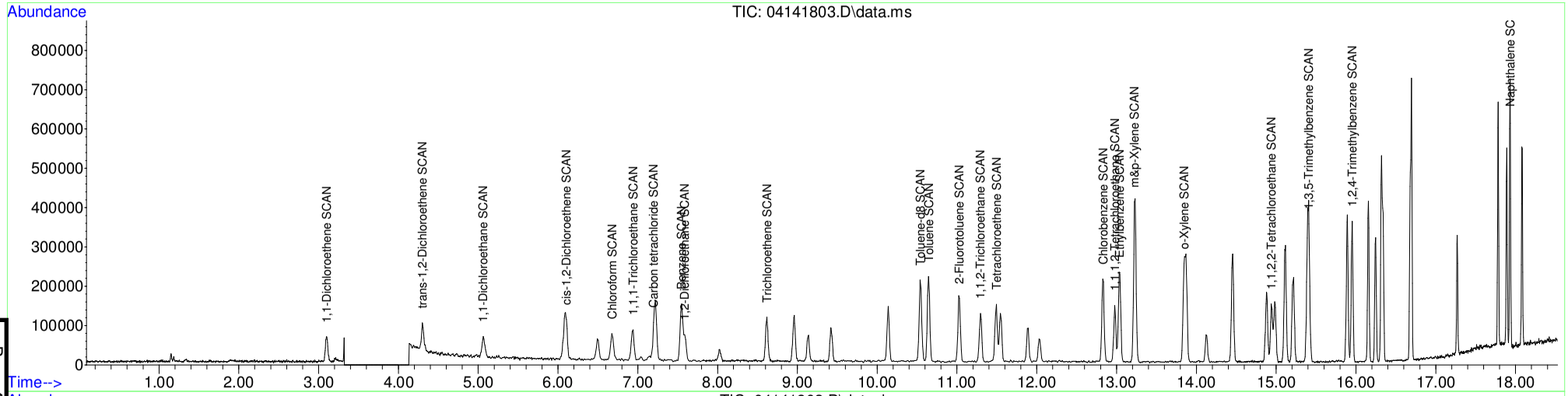
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	75456	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	52536	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	297821	24360.99 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 487.22%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	87825	24321.05 ug/L	99
3] trans-1,2-Dichloroethene	4.303	61	84765	22967.12 ug/L	100
4] 1,1-Dichloroethane	5.066	63	110037	23969.26 ug/L	100
5] cis-1,2-Dichloroethene	6.094	61	102159	22460.90 ug/L	100
6] Chloroform	6.676	83	113332	22285.47 ug/L	99
7] 1,1,1-Trichloroethane	6.931	97	112990	23418.63 ug/L	100
8] Carbon tetrachloride	7.211	117	103210	23272.51 ug/L	99
9] Benzene	7.540	78	275460	22231.05 ug/L	99
10] 1,2-Dichloroethane	7.588	62	97196	21364.18 ug/L	99
11] Trichloroethene	8.618	130	78956	24247.82 ug/L	100
13] Toluene	10.634	91	343191	21261.79 ug/L	99
14] 1,1,2-Trichloroethane	11.295	97	81802	22553.96 ug/L	100
15] Tetrachloroethene	11.495	166	100466	21614.65 ug/L	100
16] Chlorobenzene	12.829	112	256188	22949.45 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	85032	24387.69 ug/L	99
18] Ethylbenzene	13.035	91	390511	20556.26 ug/L	99
19] m&p-Xylene	13.226	91	594431	40226.56 ug/L	99
20] o-Xylene	13.846	91	318461	20349.95 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.940	83	152478	20311.41 ug/L	100
22] 1,3,5-Trimethylbenzene	15.408	105	362124	21709.38 ug/L	99
23] 1,2,4-Trimethylbenzene	15.949	105	376341	22901.69 ug/L	100
24] Naphthalene	17.932	128	657736	25477.82 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	39080	4338.13 ug/L	96
26) 1,1-Dichloroethene SCAN	3.096	61	49671	20961.09 ug/L	89
27) trans-1,2-Dichloroethe...	4.302	61	45650	17675.81 ug/L	78
28) 1,1-Dichloroethane SCAN	5.065	63	61210	20830.91 ug/L	88
29) cis-1,2-Dichloroethene...	6.106	61	63197	21746.31 ug/L	85
30) Chloroform SCAN	6.675	83	67293	22035.11 ug/L	78
31) 1,1,1-Trichloroethane ...	6.942	97	60284	20805.63 ug/L	83
32) Carbon tetrachloride SCAN	7.198	117	56404	26375.07 ug/L #	75
33) Benzene SCAN	7.551	78	151944	18412.61 ug/L	89
34) 1,2-Dichloroethane SCAN	7.587	62	57494	18413.31 ug/L	91
35) Trichloroethene SCAN	8.617	130	40069	23324.86 ug/L	93
36) Toluene-d8 SCAN	10.539	98	156922	22028.68 ug/L	99
37) Toluene SCAN	10.644	91	179976	18411.78 ug/L	93
38) 1,1,2-Trichloroethane ...	11.294	97	44394	19077.31 ug/L	88
39) Tetrachloroethene SCAN	11.494	166	48956	25440.93 ug/L	94
40) Chlorobenzene SCAN	12.828	112	127777	20129.22 ug/L	98
41) 1,1,1,2-Tetrachloroeth...	12.979	131	41363	19407.66 ug/L	90
42) Ethylbenzene SCAN	13.034	91	205474	20275.86 ug/L	94
43) m&p-Xylene SCAN	13.225	91	303522	17898.64 ug/L	95
44) o-Xylene SCAN	13.844	91	161600	16951.31 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.939	83	84235	13212956.17 ug/L	93
46) 1,3,5-Trimethylbenzene...	15.412	105	178821	21916.22 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.953	105	178215	21455.46 ug/L	94
48) Naphthalene SCAN	17.931	128	292975	25390.53 ug/L	98

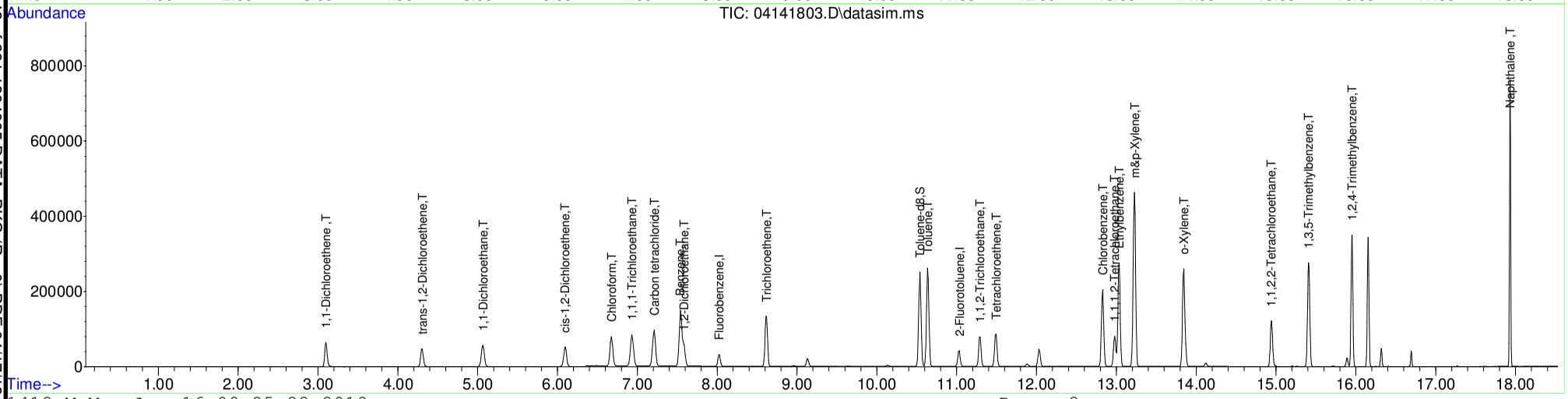
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141803.D
Acq On : 14 Apr 2018 11:39
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL1
Misc : 1745073 25 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 16 09:25:21 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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S18D063-CAL2

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141804.D
Acq On : 14 Apr 2018 12:03
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL2
Misc : 1745074 10 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 16 09:25:29 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

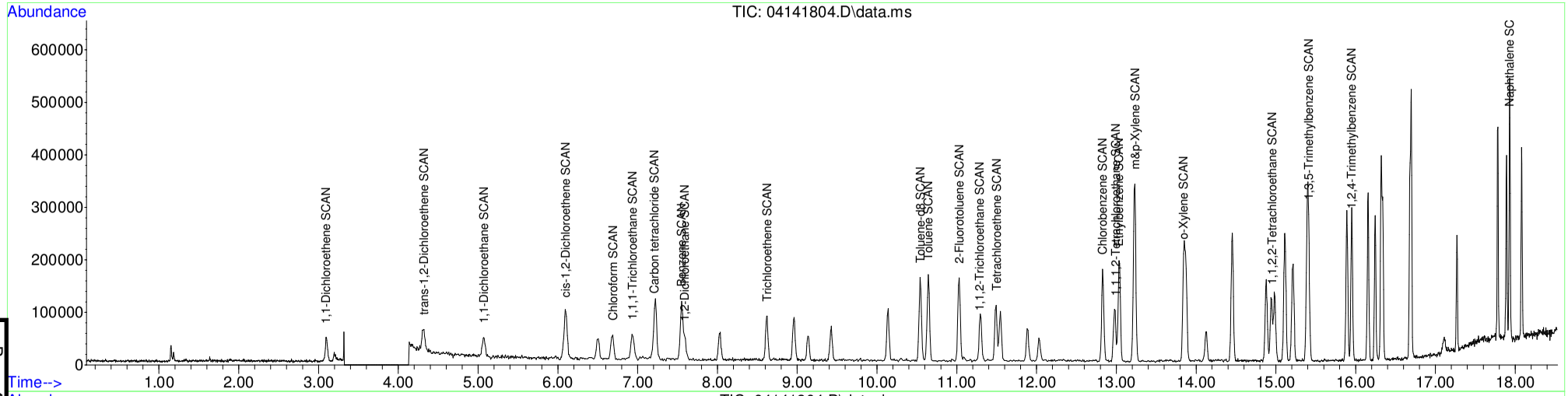
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	130045	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	100546	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	220160	10449.08 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 208.98%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	56603	9095.02 ug/L	99
3] trans-1,2-Dichloroethene	4.310	61	57885	9100.31 ug/L	100
4] 1,1-Dichloroethane	5.073	63	75913	9594.72 ug/L	100
5] cis-1,2-Dichloroethene	6.101	61	72090	9196.57 ug/L	100
6] Chloroform	6.676	83	80772	9215.74 ug/L	100
7] 1,1,1-Trichloroethane	6.932	97	81259	9772.21 ug/L	100
8] Carbon tetrachloride	7.211	117	74353	9727.92 ug/L	99
9] Benzene	7.540	78	200746	9400.45 ug/L	99
10] 1,2-Dichloroethane	7.588	62	71494	9118.17 ug/L	100
11] Trichloroethene	8.619	130	57371	10223.04 ug/L	100
13] Toluene	10.634	91	255410	9181.25 ug/L	99
14] 1,1,2-Trichloroethane	11.296	97	59606	9535.62 ug/L	99
15] Tetrachloroethene	11.495	166	76130	9503.53 ug/L	100
16] Chlorobenzene	12.829	112	199991	10394.99 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	65741	10940.19 ug/L	100
18] Ethylbenzene	13.036	91	319437	9756.55 ug/L	99
19] m&p-Xylene	13.226	91	493558	19379.82 ug/L	100
20] o-Xylene	13.846	91	265853	9857.09 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.944	83	125267	9682.10 ug/L	100
22] 1,3,5-Trimethylbenzene	15.408	105	292358	10169.63 ug/L	99
23] 1,2,4-Trimethylbenzene	15.949	105	297452	10502.75 ug/L	100
24] Naphthalene	17.932	128	474858	10672.70 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	66466	4281.03 ug/L	91
26) 1,1-Dichloroethene SCAN	3.092	61	30166	7386.33 ug/L	93
27) trans-1,2-Dichloroethe...	4.315	61	31157	6999.94 ug/L	83
28) 1,1-Dichloroethane SCAN	5.071	63	46601	9201.98 ug/L	96
29) cis-1,2-Dichloroethene...	6.100	61	43592	8703.54 ug/L	83
30) Chloroform SCAN	6.687	83	41726	7927.79 ug/L	86
31) 1,1,1-Trichloroethane ...	6.930	97	45745	9160.57 ug/L	93
32) Carbon tetrachloride SCAN	7.210	117	32716	8876.55 ug/L	76
33) Benzene SCAN	7.551	78	111575	7845.11 ug/L	86
34) 1,2-Dichloroethane SCAN	7.587	62	42630	7921.82 ug/L	100
35) Trichloroethene SCAN	8.623	130	28686	9689.04 ug/L	94
36) Toluene-d8 SCAN	10.539	98	115584	9414.62 ug/L	95
37) Toluene SCAN	10.644	91	138414	8216.02 ug/L	84
38) 1,1,2-Trichloroethane ...	11.284	97	30080	7500.16 ug/L #	72
39) Tetrachloroethene SCAN	11.494	166	35220	10619.80 ug/L	91
40) Chlorobenzene SCAN	12.828	112	100159	9155.13 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.987	131	33930	9237.30 ug/L	87
42) Ethylbenzene SCAN	13.034	91	159810	9150.11 ug/L	97
43) m&p-Xylene SCAN	13.233	91	244927	8380.44 ug/L	95
44) o-Xylene SCAN	13.845	91	135588	8252.46 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.946	83	69711	6344667.20 ug/L	98
46) 1,3,5-Trimethylbenzene...	15.412	105	139962	9953.08 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.948	105	147416	10297.65 ug/L	98
48) Naphthalene SCAN	17.931	128	214254	10773.83 ug/L	97

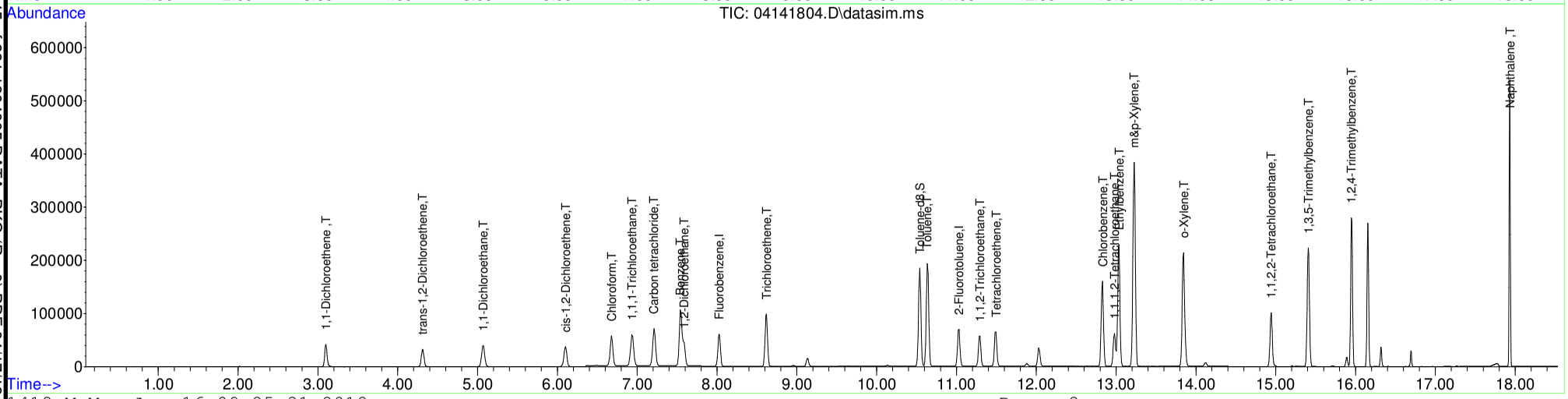
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141804.D
Acq On : 14 Apr 2018 12:03
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL2
Misc : 1745074 10 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 16 09:25:29 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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S18D063-CAL3

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141805.D
Acq On : 14 Apr 2018 12:27
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL3
Misc : 1745075 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 09:25:42 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

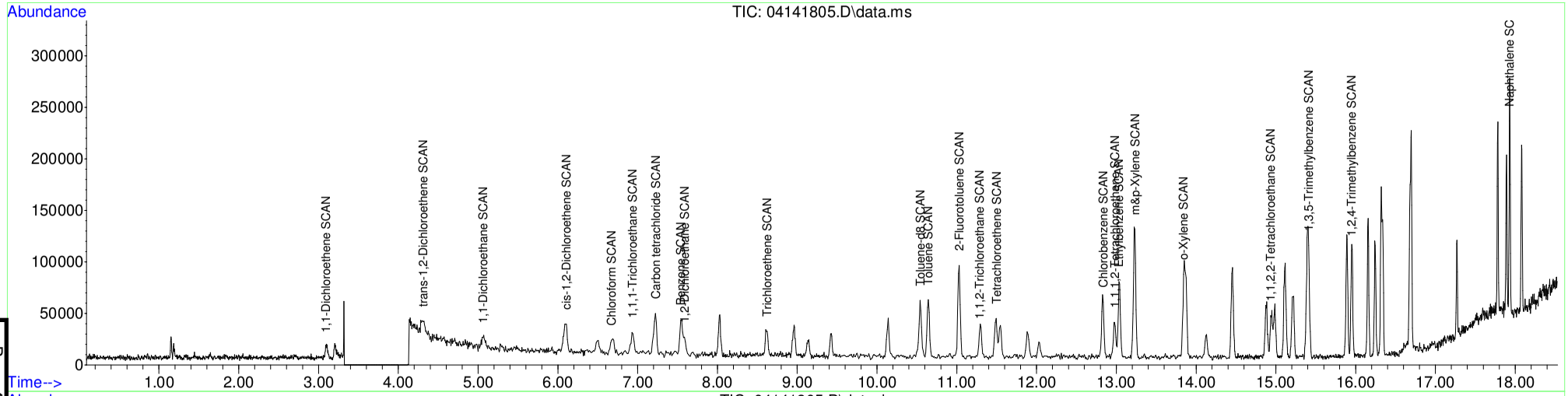
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	92093	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	65072	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	75926	5088.59 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.77%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	18564	4212.14 ug/L	100
3] trans-1,2-Dichloroethene	4.303	61	18530	4113.70 ug/L	100
4] 1,1-Dichloroethane	5.066	63	24443	4362.52 ug/L	100
5] cis-1,2-Dichloroethene	6.101	61	23382	4212.11 ug/L	100
6] Chloroform	6.676	83	26311	4239.10 ug/L	100
7] 1,1,1-Trichloroethane	6.932	97	26574	4512.79 ug/L	100
8] Carbon tetrachloride	7.211	117	24674	4558.56 ug/L	100
9] Benzene	7.540	78	67155	4440.66 ug/L	100
10] 1,2-Dichloroethane	7.588	62	23952	4313.67 ug/L	100
11] Trichloroethene	8.619	130	19357	4870.72 ug/L	100
13] Toluene	10.634	91	90448	4591.24 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	20663	4667.88 ug/L	100
15] Tetrachloroethene	11.495	166	26343	4643.67 ug/L	100
16] Chlorobenzene	12.829	112	69377	5092.09 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	22765	5349.62 ug/L	100
18] Ethylbenzene	13.036	91	112498	4852.02 ug/L	100
19] m&p-Xylene	13.226	91	175108	9709.23 ug/L	100
20] o-Xylene	13.846	91	93889	4915.74 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.944	83	43713	4771.01 ug/L	100
22] 1,3,5-Trimethylbenzene	15.408	105	115065	5651.98 ug/L	100
23] 1,2,4-Trimethylbenzene	15.949	105	120456	6005.95 ug/L	100
24] Naphthalene	17.932	128	217368	6898.80 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	44493	4046.76 ug/L	100
26) 1,1-Dichloroethene SCAN	3.092	61	9861	3409.57 ug/L	100
27) trans-1,2-Dichloroethe...	4.308	61	9662	3065.30 ug/L	100
28) 1,1-Dichloroethane SCAN	5.065	63	14784	4122.35 ug/L	100
29) cis-1,2-Dichloroethene...	6.106	61	11605	3271.91 ug/L	100
30) Chloroform SCAN	6.675	83	14002	3756.67 ug/L	100
31) 1,1,1-Trichloroethane ...	6.930	97	17571	4968.70 ug/L	100
32) Carbon tetrachloride SCAN	7.222	117	12638	4842.05 ug/L	100
33) Benzene SCAN	7.538	78	38309	3803.64 ug/L	100
34) 1,2-Dichloroethane SCAN	7.587	62	14526	3811.73 ug/L	100
35) Trichloroethene SCAN	8.617	130	9625	4590.70 ug/L	100
36) Toluene-d8 SCAN	10.539	98	39065	4493.24 ug/L	100
37) Toluene SCAN	10.644	91	43690	3662.10 ug/L	100
38) 1,1,2-Trichloroethane ...	11.284	97	13380	4711.03 ug/L	100
39) Tetrachloroethene SCAN	11.494	166	14248	6066.64 ug/L	100
40) Chlorobenzene SCAN	12.836	112	34334	4431.65 ug/L	100
41) 1,1,1,2-Tetrachloroeth...	12.979	131	11162	4291.12 ug/L	100
42) Ethylbenzene SCAN	13.034	91	57269	4630.30 ug/L	100
43) m&p-Xylene SCAN	13.233	91	93199	4503.07 ug/L	100
44) o-Xylene SCAN	13.845	91	50466	4337.39 ug/L	100
45) 1,1,2,2-Tetrachloroeth...	14.935	83	26415	3394885.94 ug/L	100
46) 1,3,5-Trimethylbenzene...	15.412	105	58005	5824.78 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.948	105	58469	5767.48 ug/L	100
48) Naphthalene SCAN	17.931	128	94206	6689.40 ug/L	100

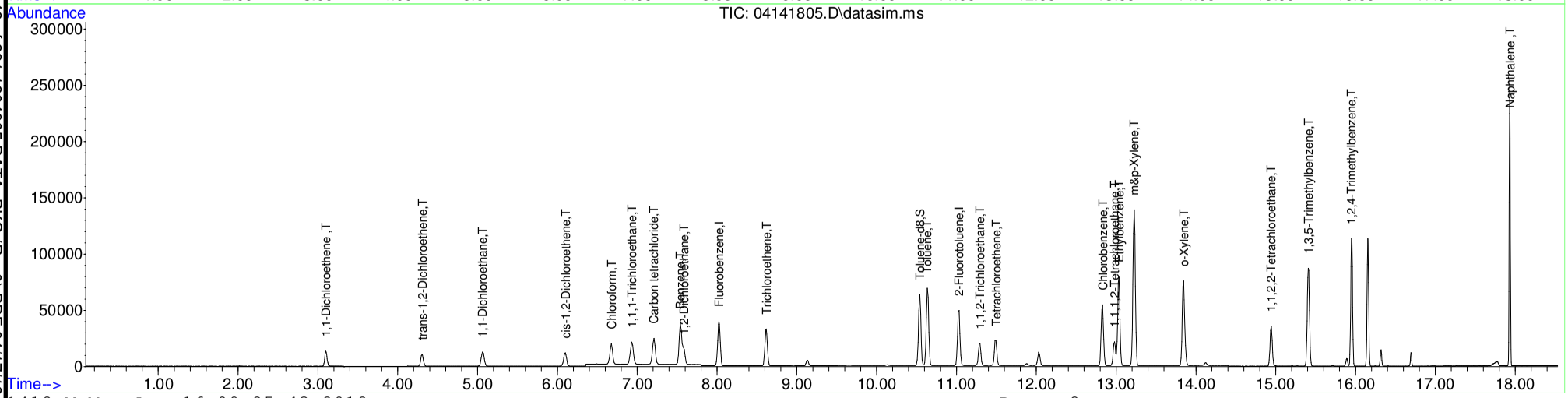
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141805.D
Acq On : 14 Apr 2018 12:27
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL3
Misc : 1745075 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 09:25:42 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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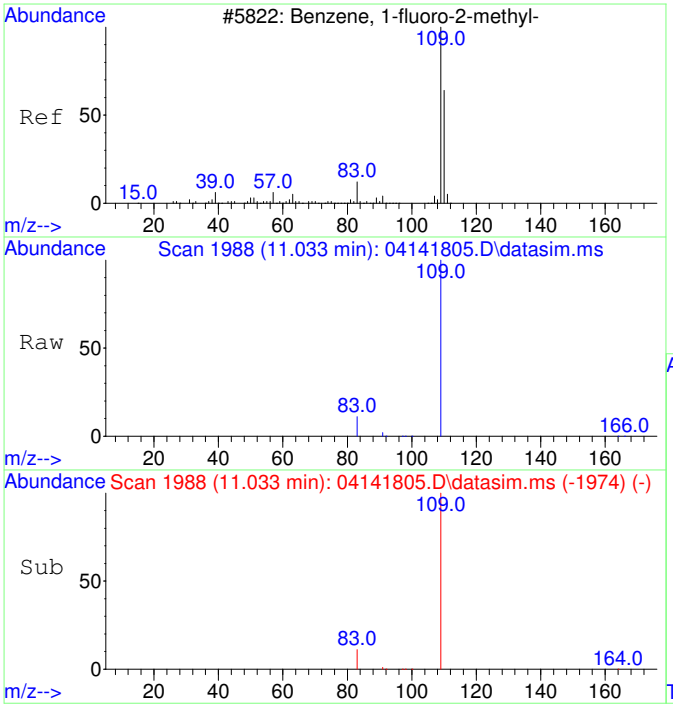
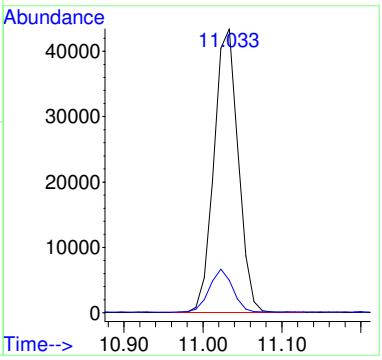
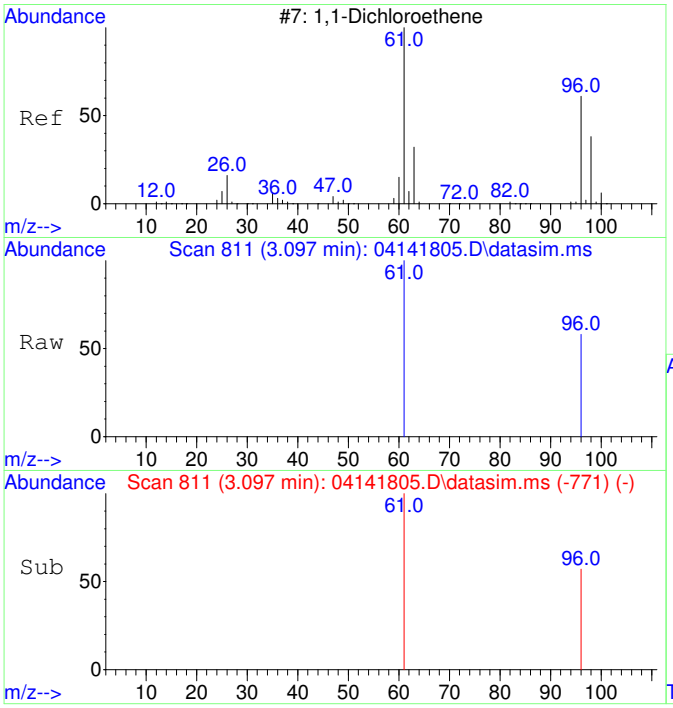


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:109 Resp: 92093

Ion	Ratio	Lower	Upper
109	100		
83	14.4	0.0	44.4

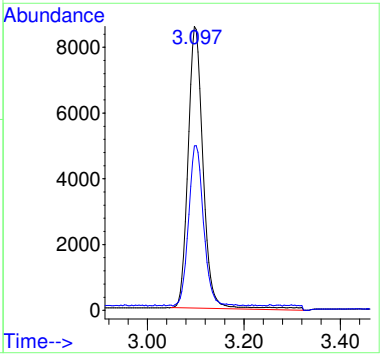




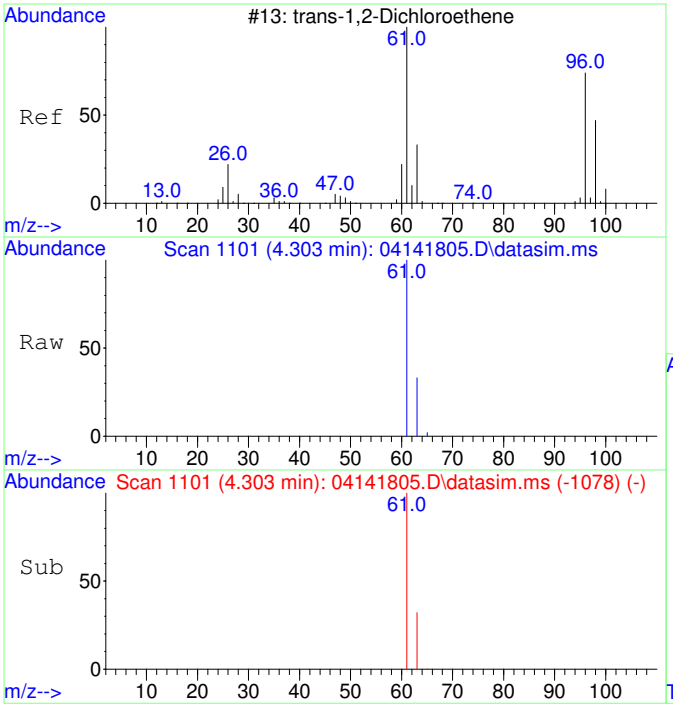
#2
1,1-Dichloroethene
Concen: 4212.14 ug/L
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 18564

Ion	Ratio	Lower	Upper
61	100		
96	56.1	26.1	86.1



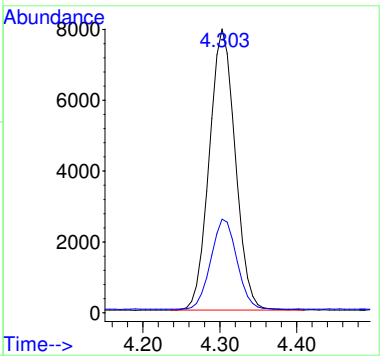
Before MI:
IMPROPER
BASELINE

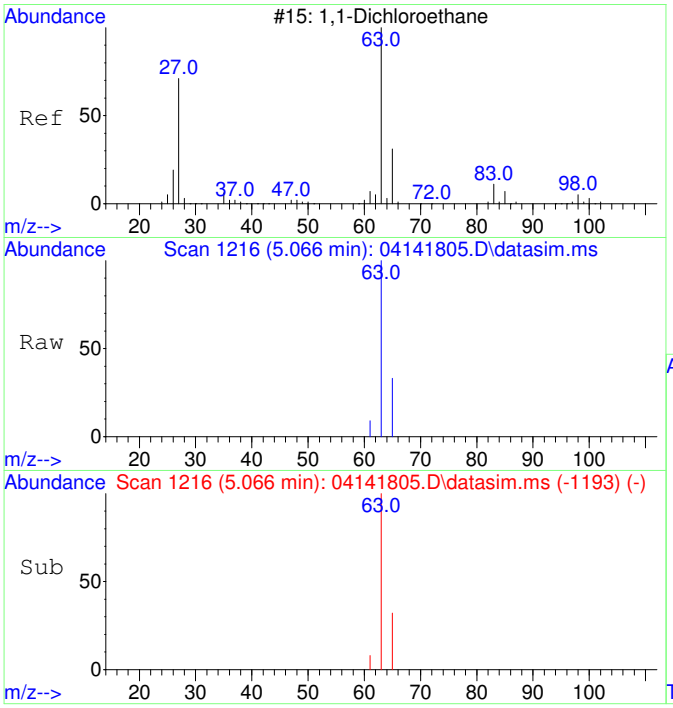


#3
trans-1,2-Dichloroethene
Concen: 4113.70 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 18530

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

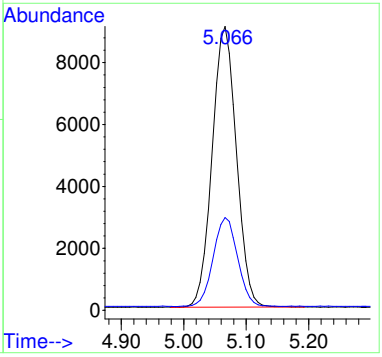


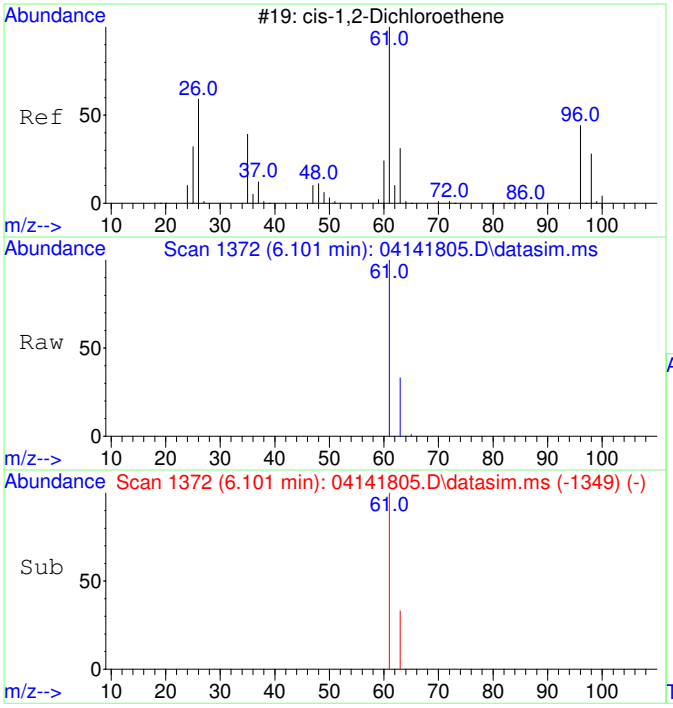


#4
1,1-Dichloroethane
Concen: 4362.52 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 63 Resp: 24443

Ion	Ratio	Lower	Upper
63	100		
65	31.8	1.8	61.8

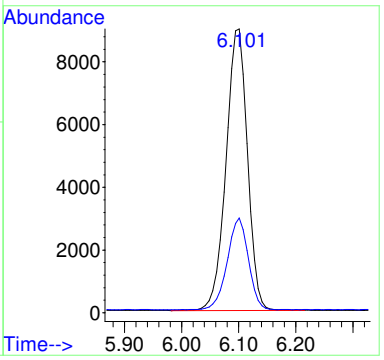


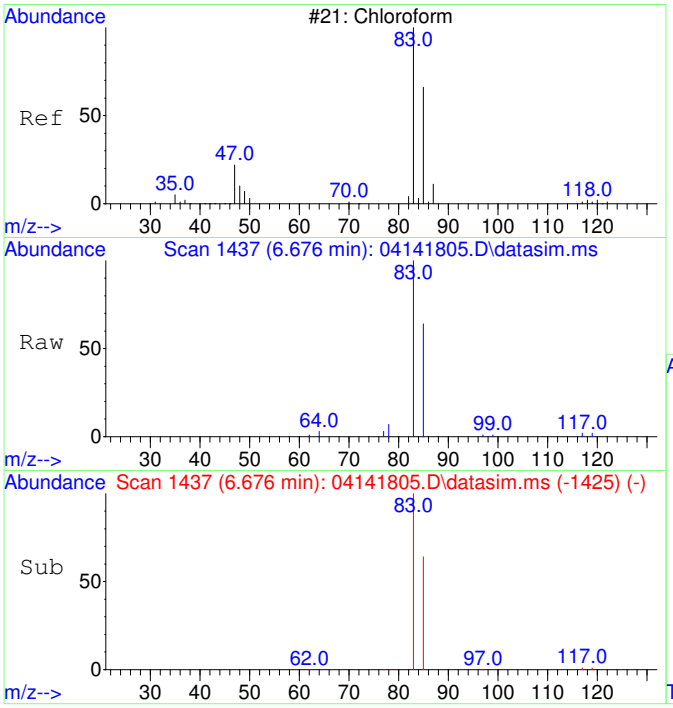


#5
cis-1,2-Dichloroethene
Concen: 4212.11 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 23382

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

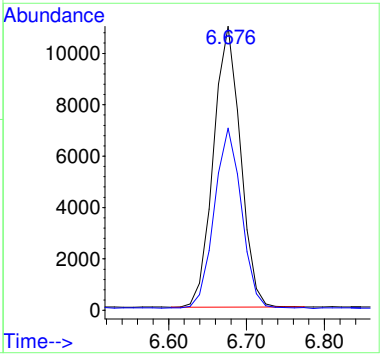


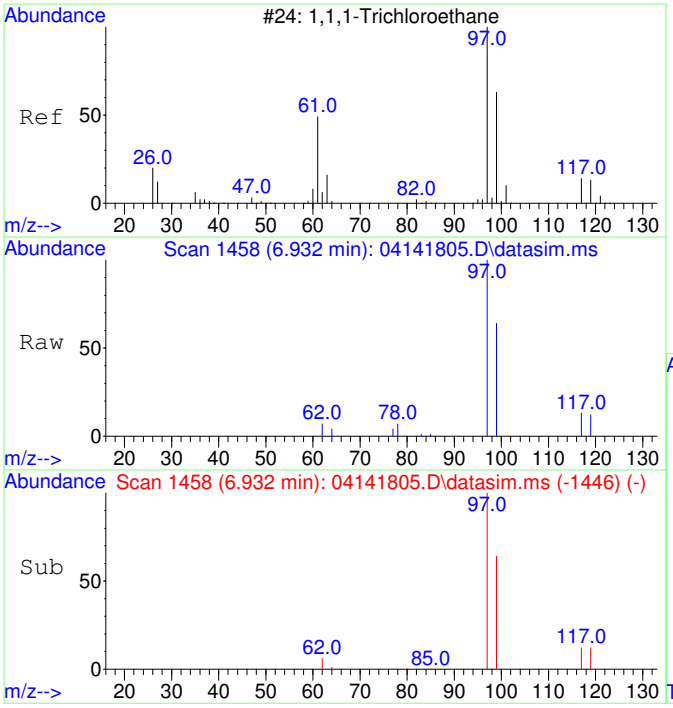


#6
Chloroform
Concen: 4239.10 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 83 Resp: 26311

Ion	Ratio	Lower	Upper
83	100		
85	64.2	34.2	94.2

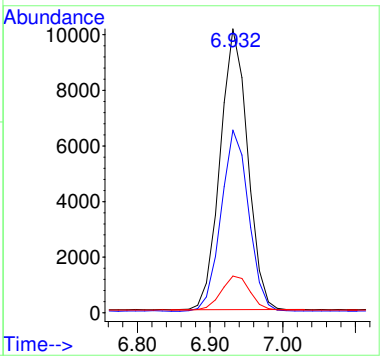


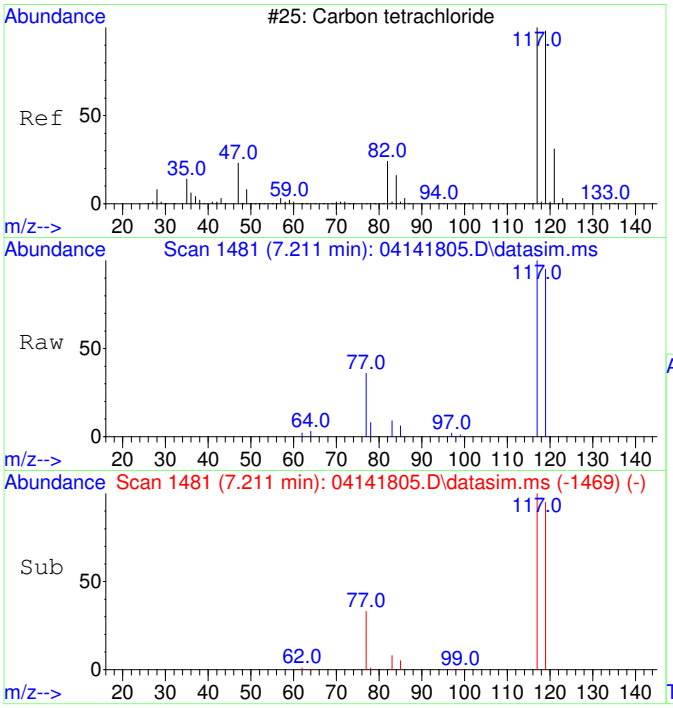


#7
1,1,1-Trichloroethane
Concen: 4512.79 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 97 Resp: 26574

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.5	94.5
117	12.6	0.0	42.6

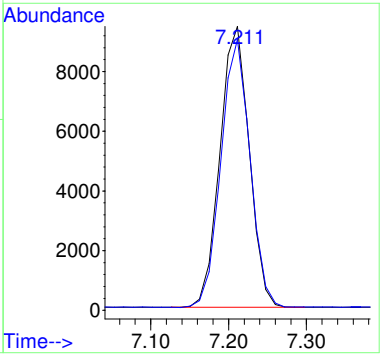


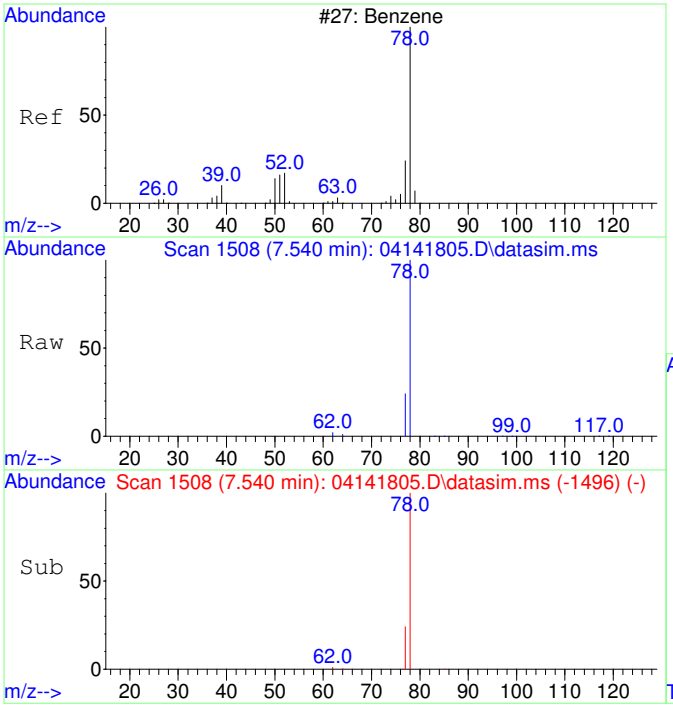


#8
Carbon tetrachloride
Concen: 4558.56 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:117 Resp: 24674

Ion	Ratio	Lower	Upper
117	100		
119	94.5	64.5	124.5

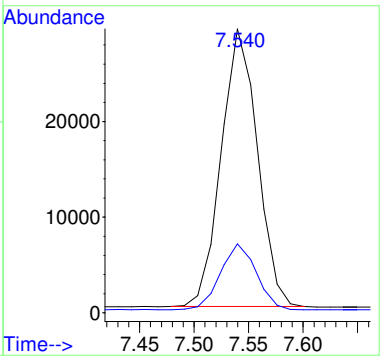


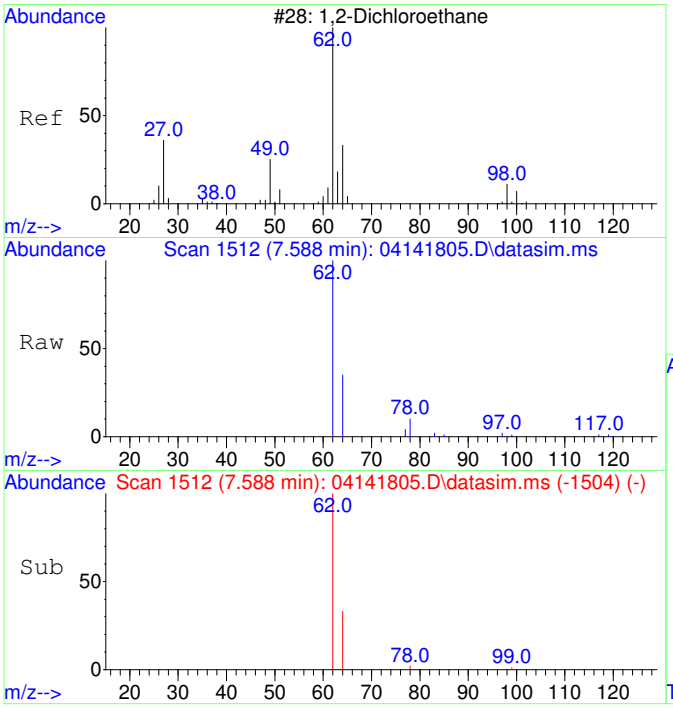


#9
Benzene
Concen: 4440.66 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 78 Resp: 67155

Ion	Ratio	Lower	Upper
78	100		
77	23.6	0.0	53.6

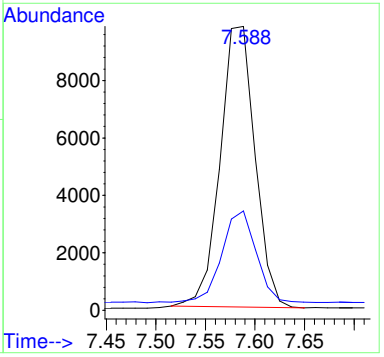


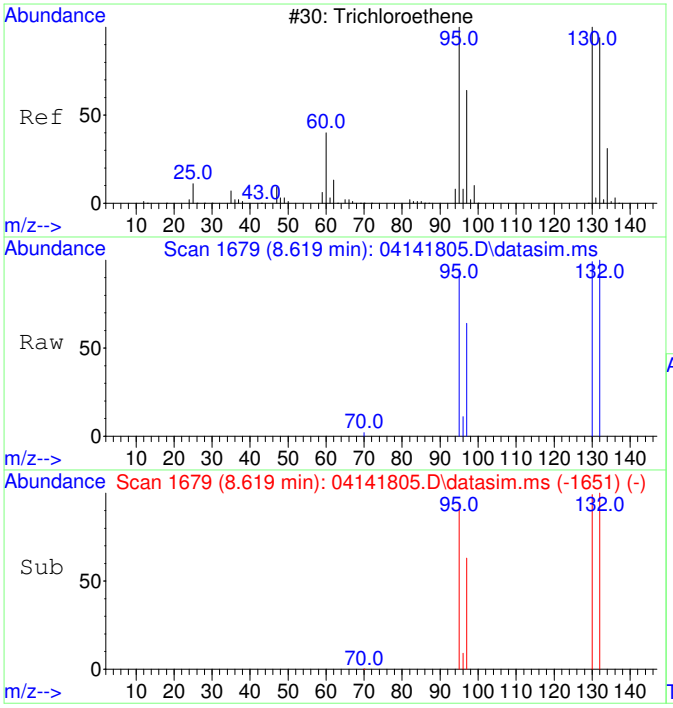


#10
1,2-Dichloroethane
Concen: 4313.67 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 62 Resp: 23952

Ion	Ratio	Lower	Upper
62	100		
64	31.8	1.8	61.8

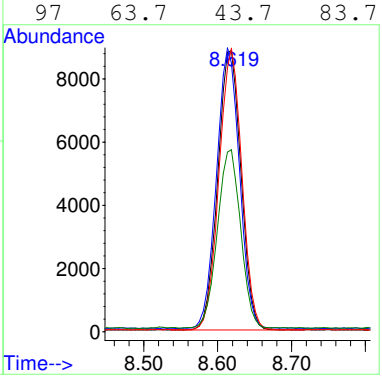


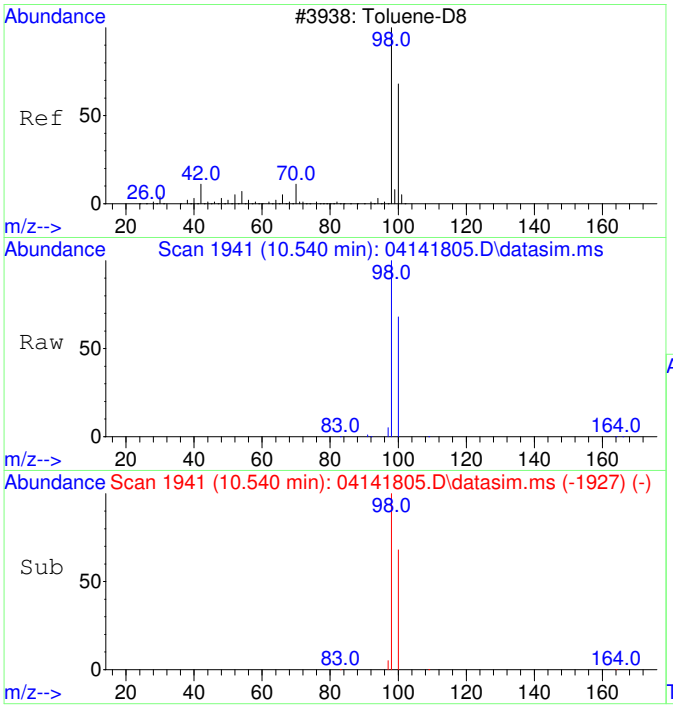


#11
Trichloroethene
Concen: 4870.72 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:130 Resp: 19357

Ion	Ratio	Lower	Upper
130	100		
95	98.8	68.8	128.8
132	98.6	78.6	118.6
97	63.7	43.7	83.7

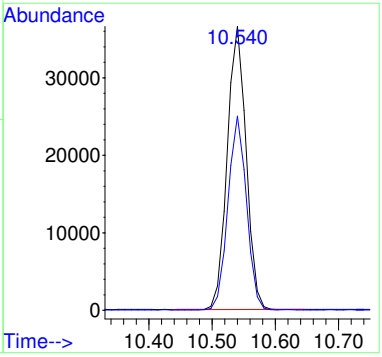


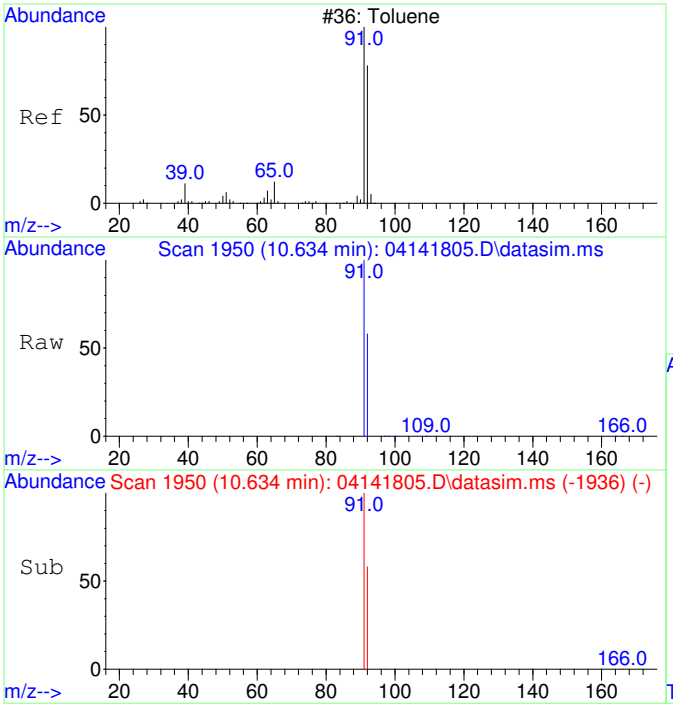


#12
Toluene-d8
Concen: 5088.59 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 98 Resp: 75926

Ion	Ratio	Lower	Upper
98	100		
100	66.9	36.9	96.9

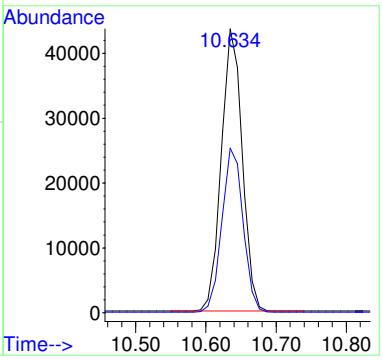


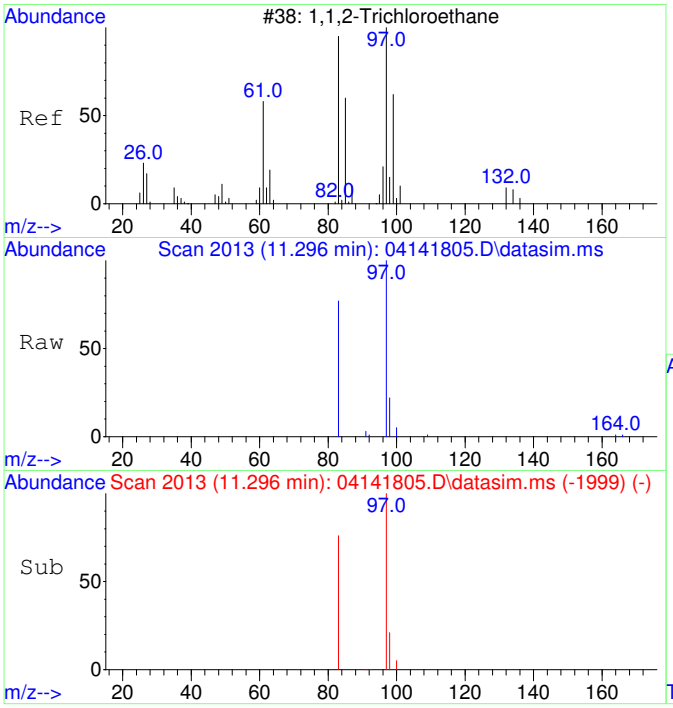


#13
Toluene
Concen: 4591.24 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 90448

Ion	Ratio	Lower	Upper
91	100		
92	58.8	28.8	88.8

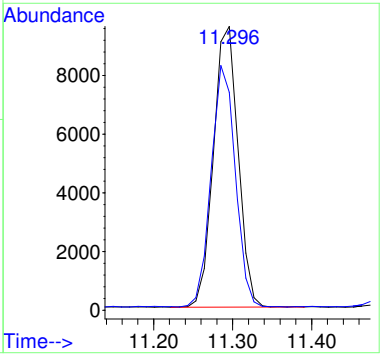


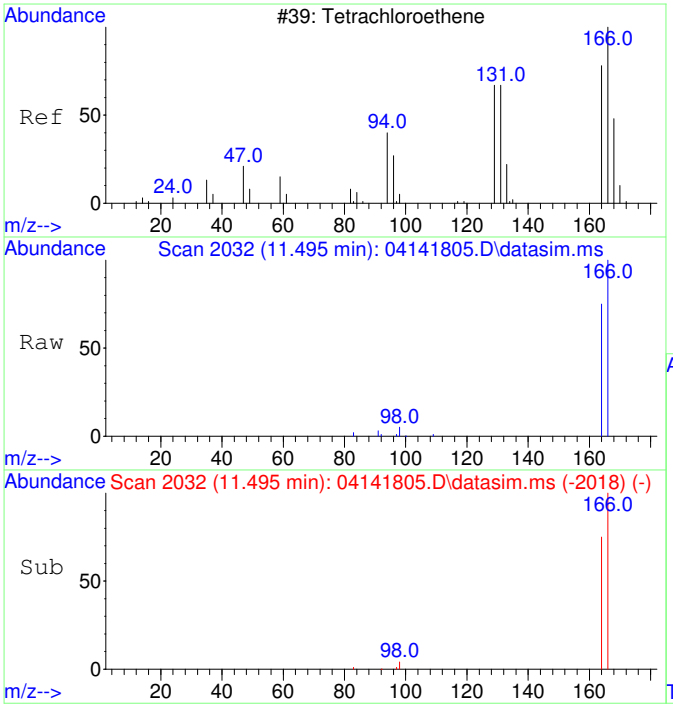


#14
1,1,2-Trichloroethane
Concen: 4667.88 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 97 Resp: 20663

Ion	Ratio	Lower	Upper
97	100		
83	84.3	54.3	114.3

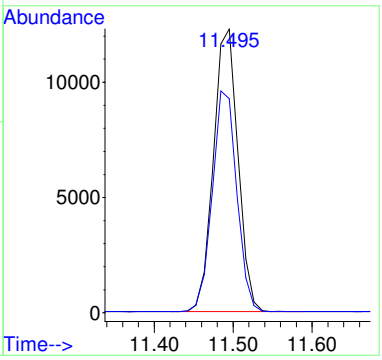


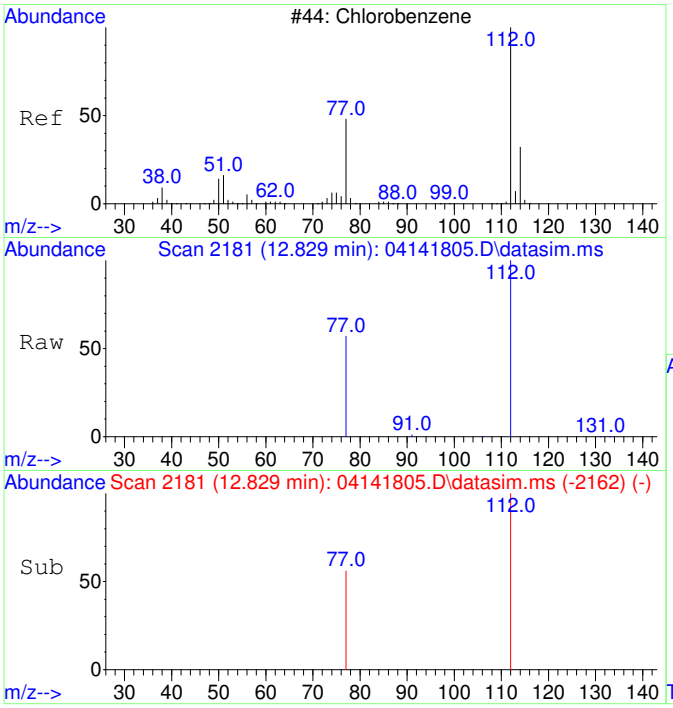


#15
Tetrachloroethene
Concen: 4643.67 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:166 Resp: 26343

Ion	Ratio	Lower	Upper
166	100		
164	78.0	48.0	108.0

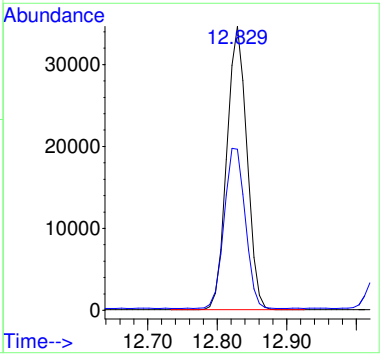


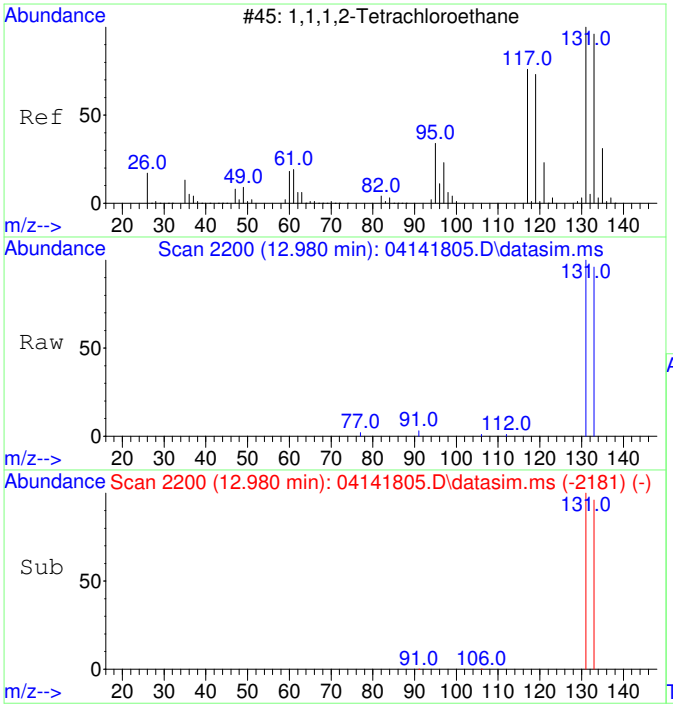


#16
Chlorobenzene
Concen: 5092.09 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:112 Resp: 69377

Ion	Ratio	Lower	Upper
112	100		
77	59.4	29.4	89.4

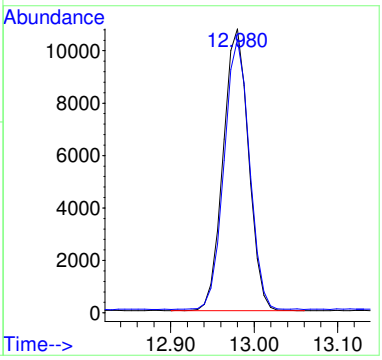


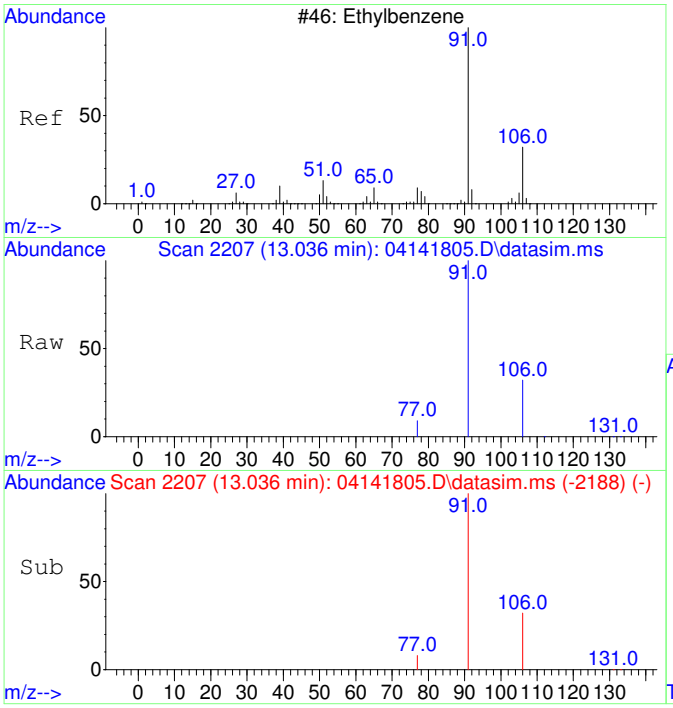


#17
1,1,1,2-Tetrachloroethane
Concen: 5349.62 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:131 Resp: 22765

Ion	Ratio	Lower	Upper
131	100		
133	95.1	65.1	125.1

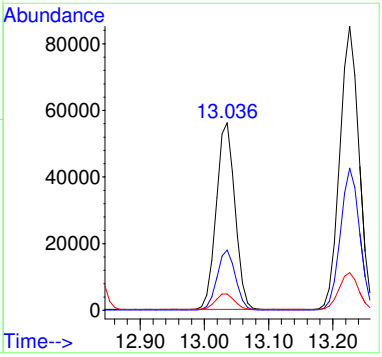


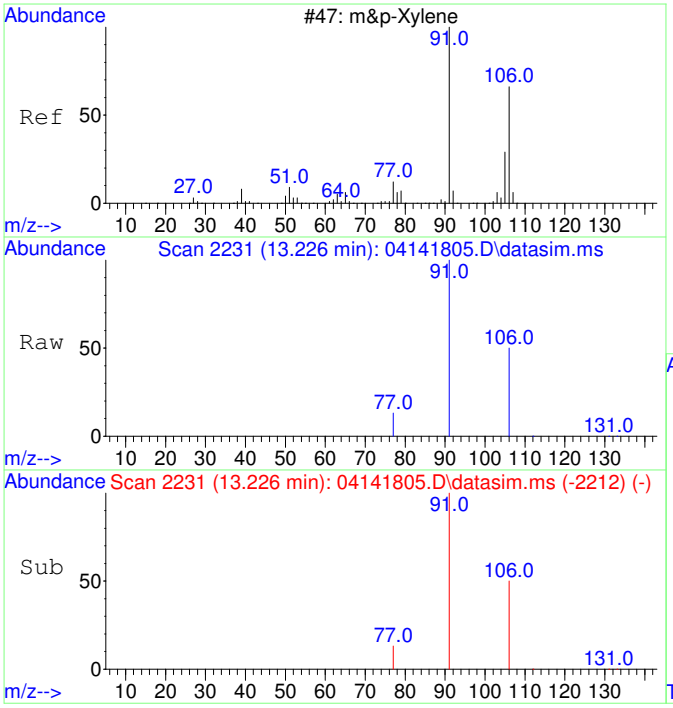


#18
Ethylbenzene
Concen: 4852.02 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 112498

Ion	Ratio	Lower	Upper
91	100		
106	31.8	1.8	61.8
77	8.7	0.0	38.7

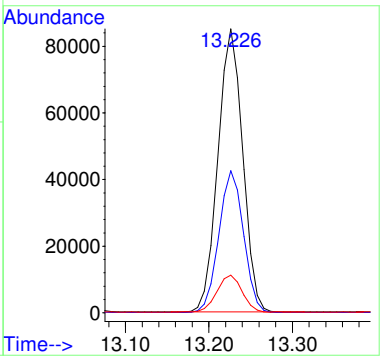


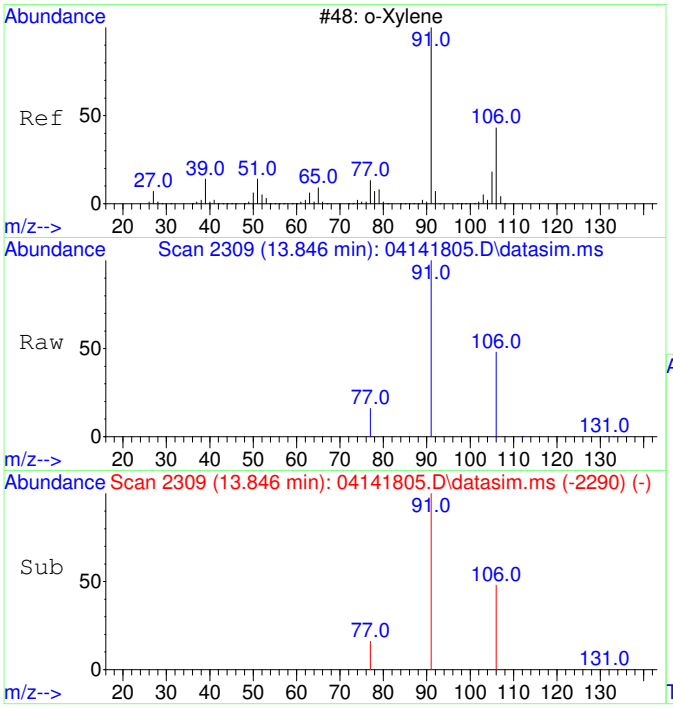


#19
m&p-Xylene
Concen: 9709.23 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 175108

Ion	Ratio	Lower	Upper
91	100		
106	50.0	20.0	80.0
77	13.4	0.0	43.4

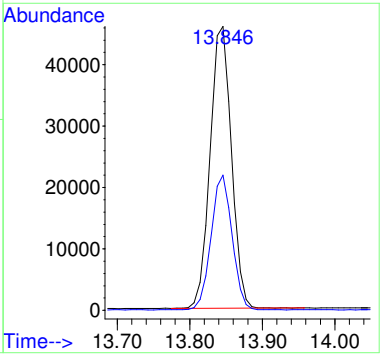


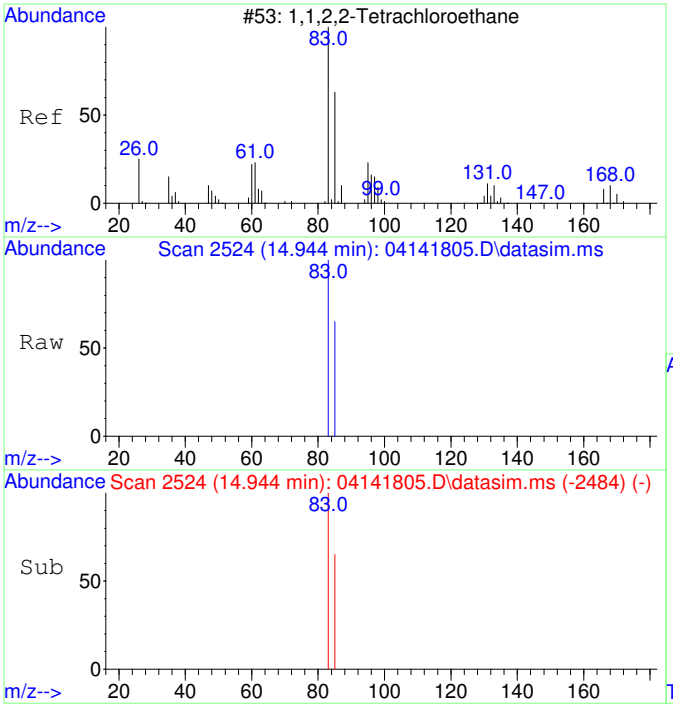


#20
o-Xylene
Concen: 4915.74 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 93889

Ion	Ratio	Lower	Upper
91	100		
106	46.9	16.9	76.9

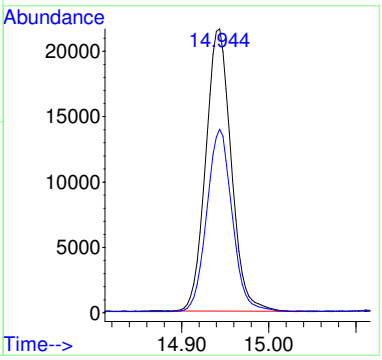


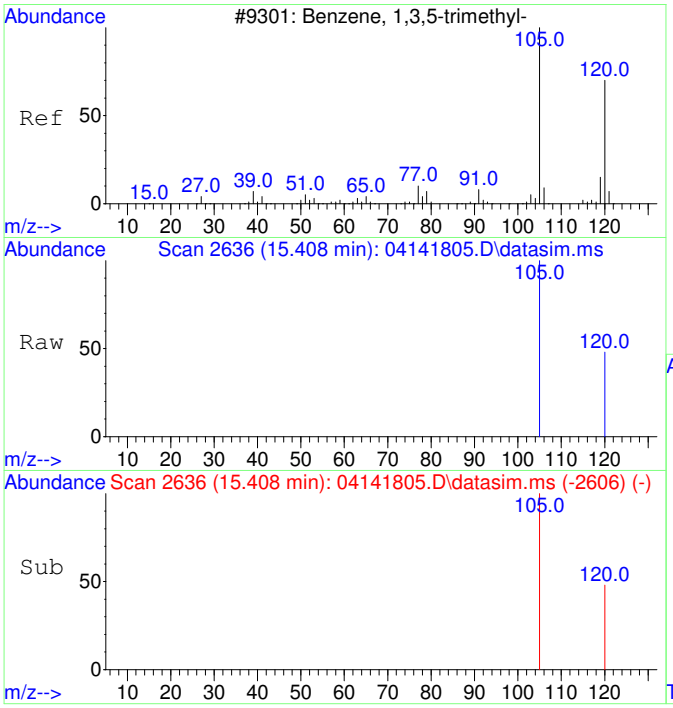


#21
1,1,2,2-Tetrachloroethane
Concen: 4771.01 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 83 Resp: 43713

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.3	94.3

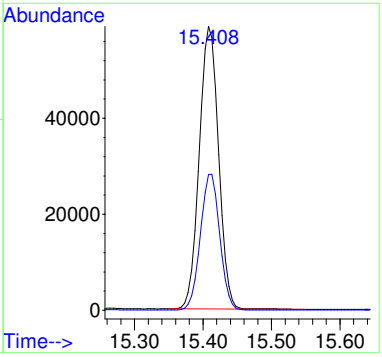


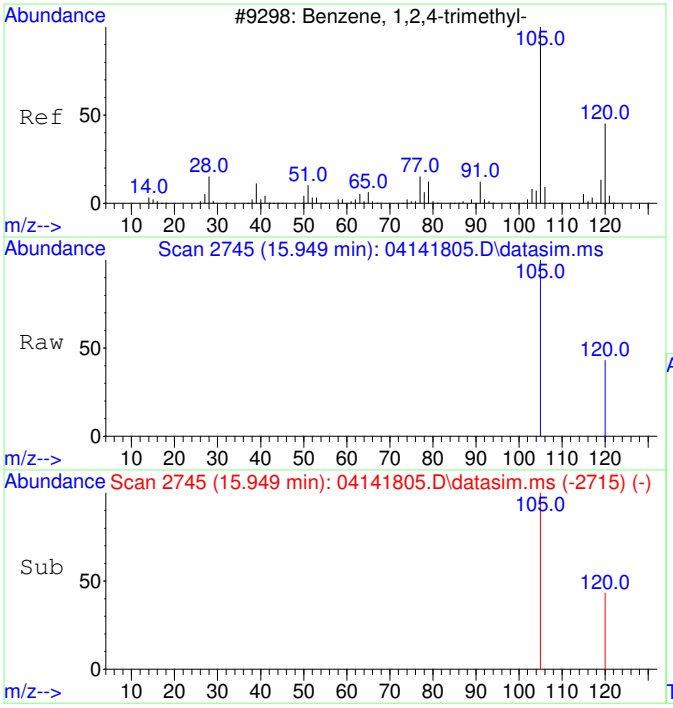


#22
1,3,5-Trimethylbenzene
Concen: 5651.98 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:105 Resp: 115065

Ion	Ratio	Lower	Upper
105	100		
120	48.1	18.1	78.1

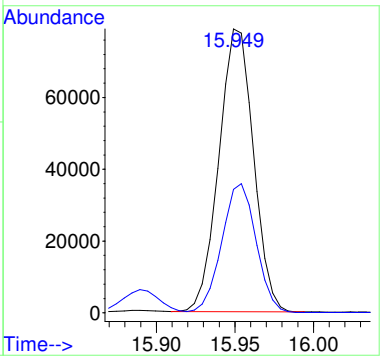


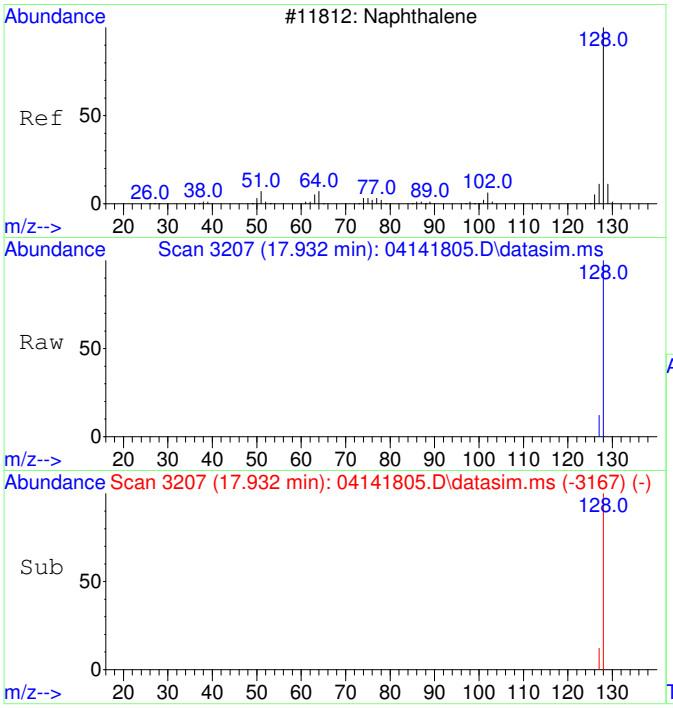


#23
1,2,4-Trimethylbenzene
Concen: 6005.95 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:105 Resp: 120456

Ion	Ratio	Lower	Upper
105	100		
120	44.5	14.5	74.5

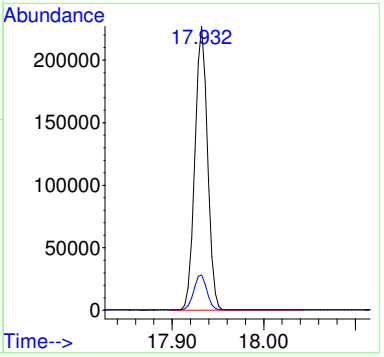


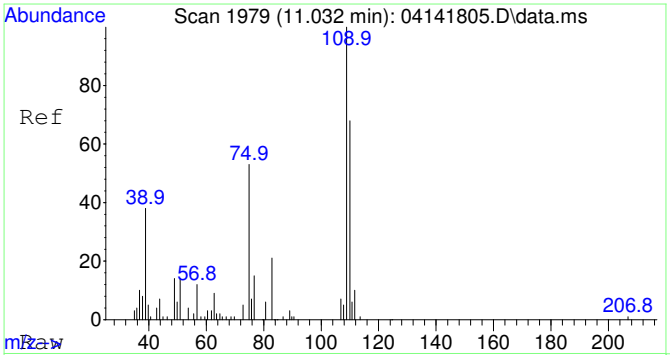


#24
Naphthalene
Concen: 6898.80 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:128 Resp: 217368

Ion	Ratio	Lower	Upper
128	100		
127	12.7	0.0	42.7

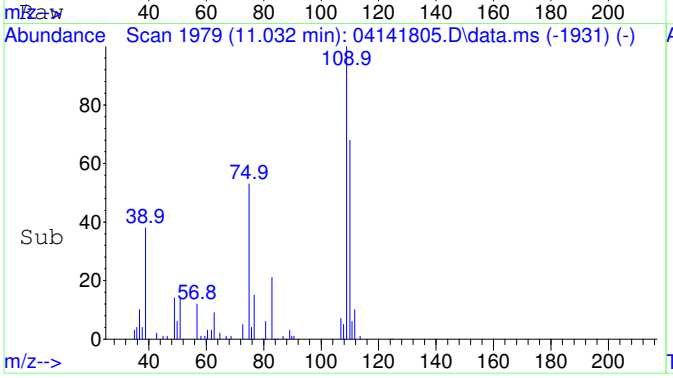


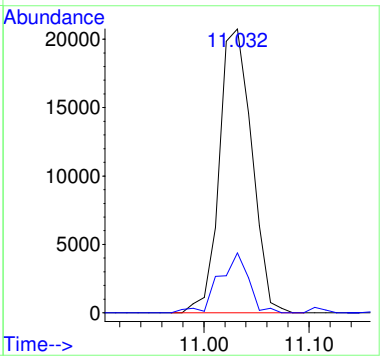


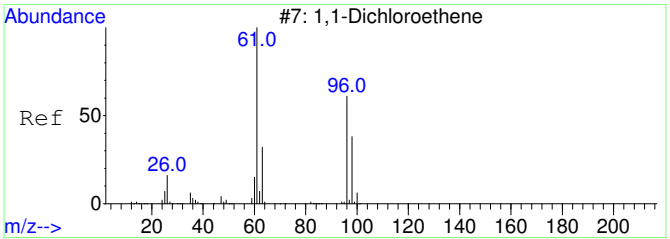
#25
2-Fluorotoluene SCAN
Concen: 4046.76 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

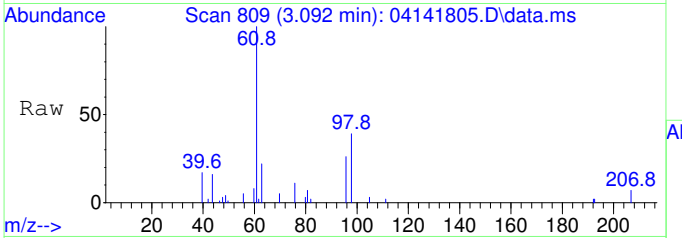
Tgt Ion:109 Resp: 44493

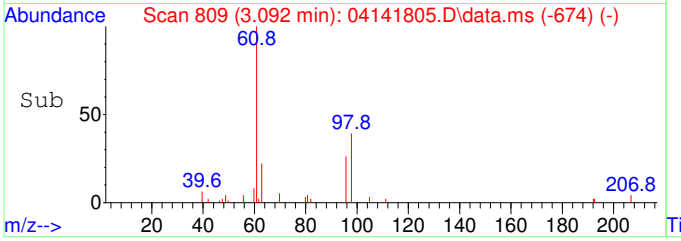
Ion	Ratio	Lower	Upper
109	100		
83	19.2	0.0	49.2







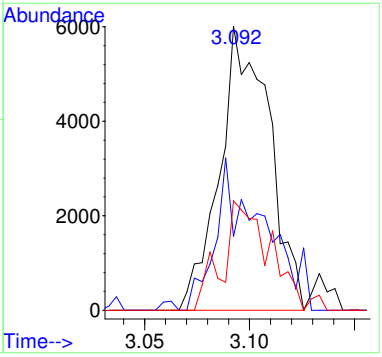


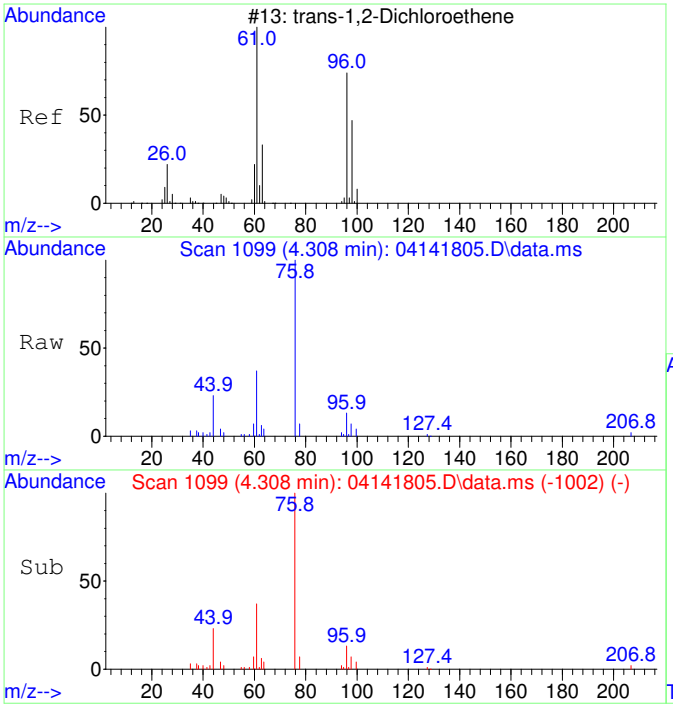


#26
1,1-Dichloroethene SCAN
Concen: 3409.57 ug/L
RT: 3.092 min Scan# 809
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 9861

Ion	Ratio	Lower	Upper
61	100		
96	51.6	21.6	81.6
98	37.5	7.5	67.5

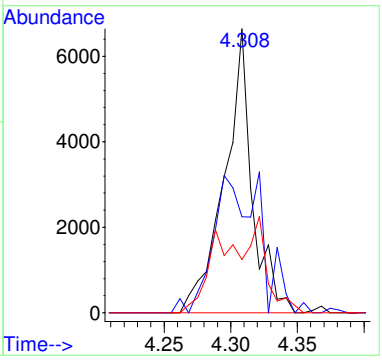


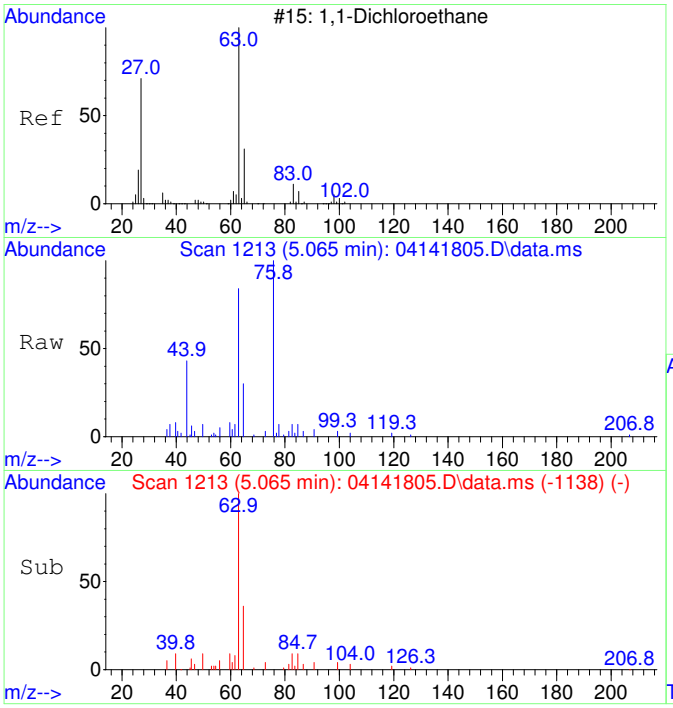


#27
trans-1,2-Dichloroethene SCAN
Concen: 3065.30 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 9662

Ion	Ratio	Lower	Upper
61	100		
96	81.8	51.8	111.8
98	52.7	22.7	82.7

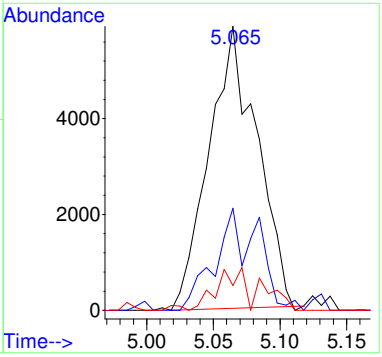


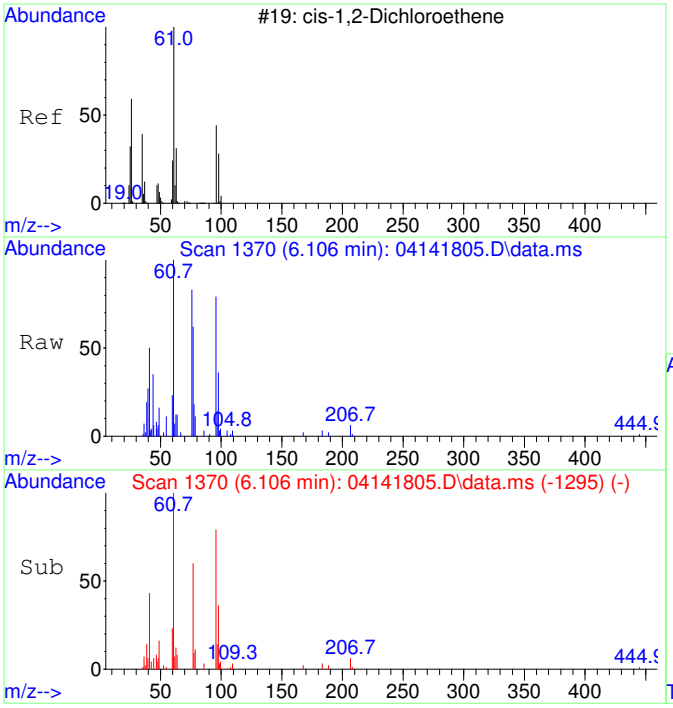


#28
1,1-Dichloroethane SCAN
Concen: 4122.35 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 63 Resp: 14784

Ion	Ratio	Lower	Upper
63	100		
65	32.2	2.2	62.2
83	8.2	0.0	38.2

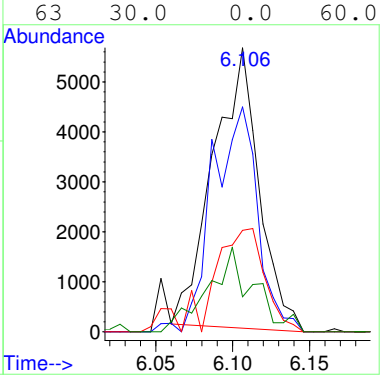


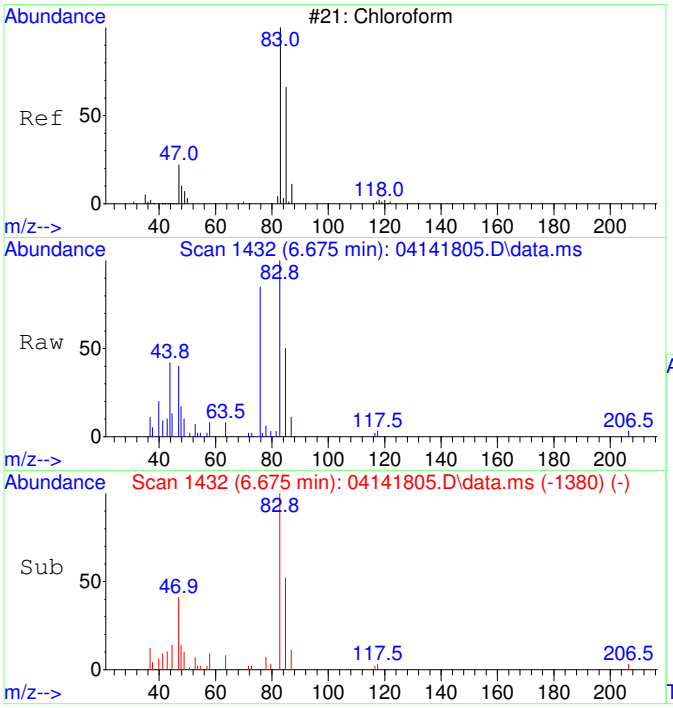


#29
cis-1,2-Dichloroethene SCAN
Concen: 3271.91 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 11605

Ion	Ratio	Lower	Upper
61	100		
96	79.4	49.4	109.4
98	39.5	9.5	69.5
63	30.0	0.0	60.0

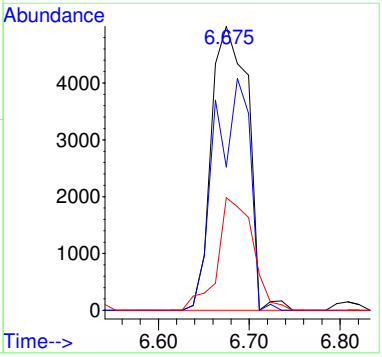


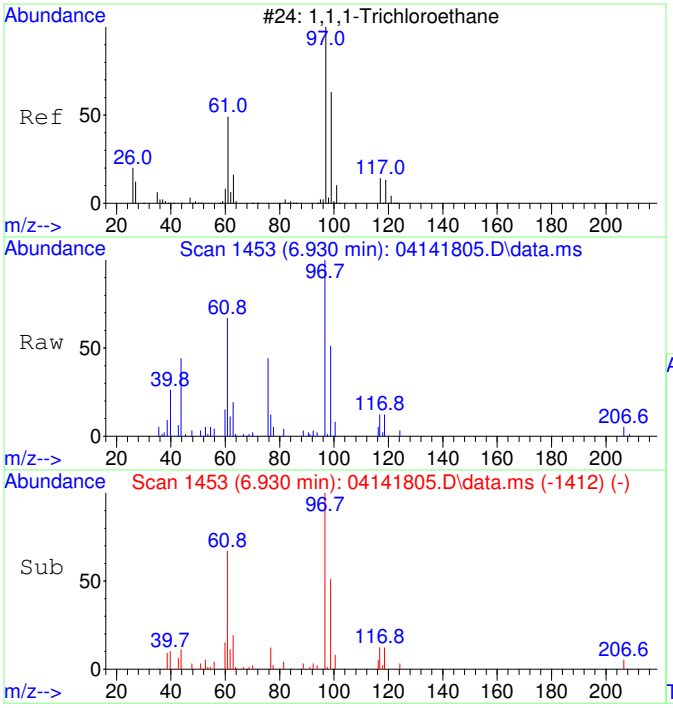


#30
Chloroform SCAN
Concen: 3756.67 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 83 Resp: 14002

Ion	Ratio	Lower	Upper
83	100		
85	77.8	47.8	107.8
47	38.2	8.2	68.2

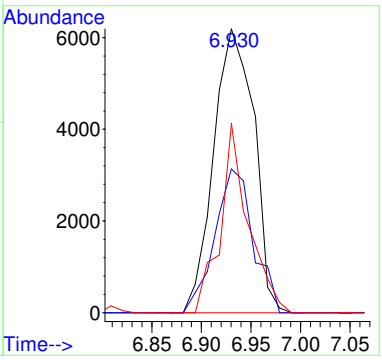


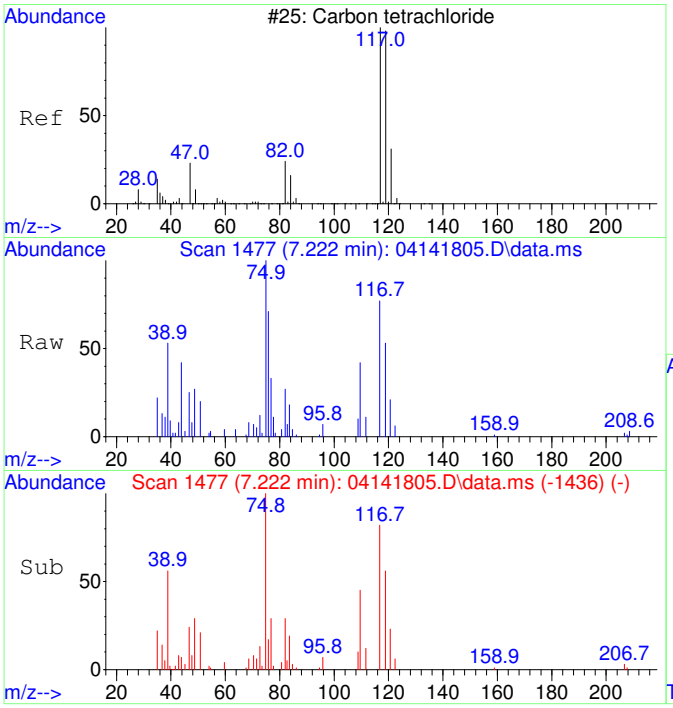


#31
1,1,1-Trichloroethane SCAN
Concen: 4968.70 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 97 Resp: 17571

Ion	Ratio	Lower	Upper
97	100		
99	48.3	18.3	78.3
61	46.3	16.3	76.3

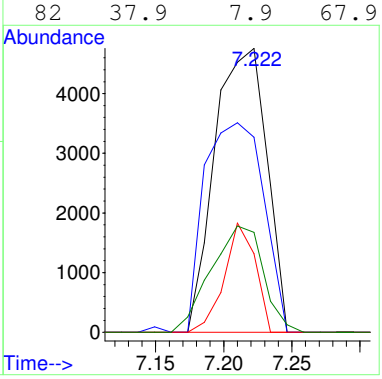


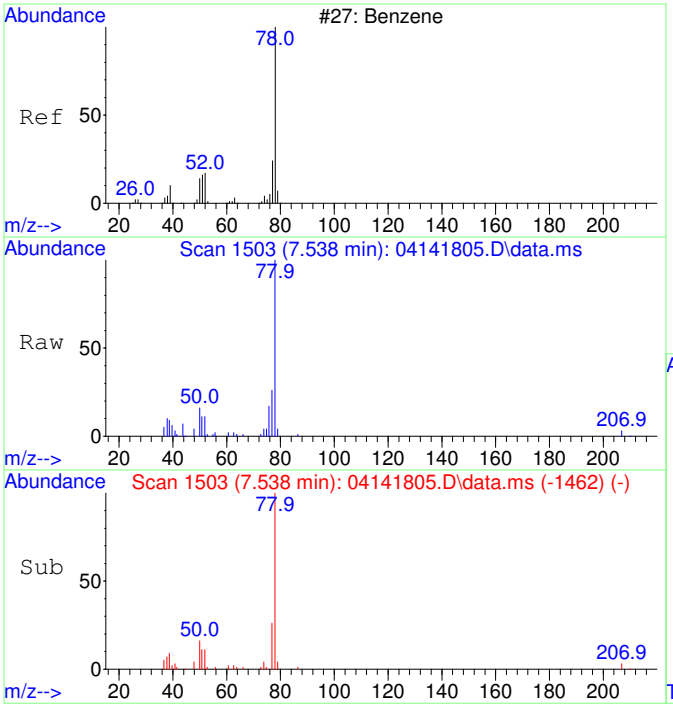


#32
Carbon tetrachloride SCAN
Concen: 4842.05 ug/L
RT: 7.222 min Scan# 1477
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:117 Resp: 12638

Ion	Ratio	Lower	Upper
117	100		
119	84.4	54.4	114.4
121	23.0	0.0	53.0
82	37.9	7.9	67.9

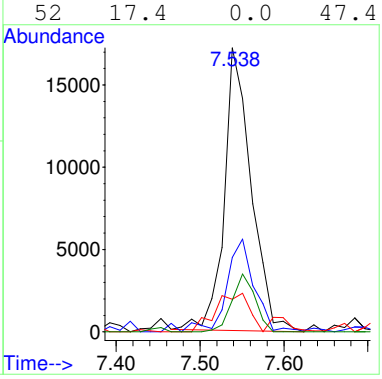


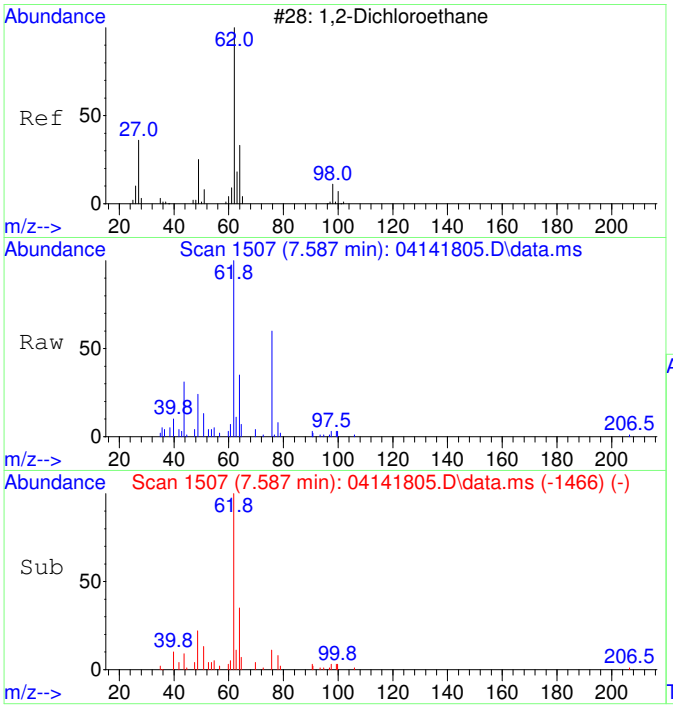


#33
Benzene SCAN
Concen: 3803.64 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 78 Resp: 38309

Ion	Ratio	Lower	Upper
78	100		
77	35.4	5.4	65.4
51	17.2	0.0	47.2
52	17.4	0.0	47.4

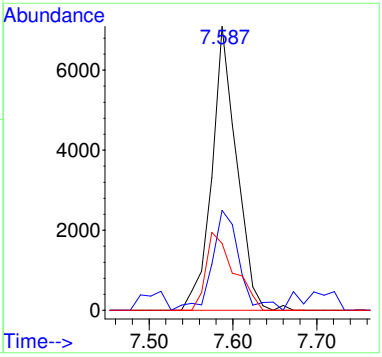


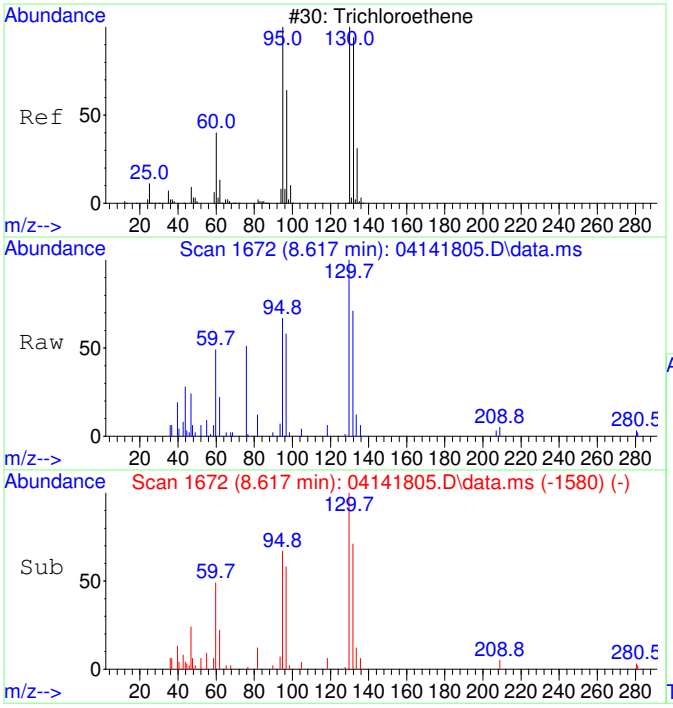


#34
1,2-Dichloroethane SCAN
Concen: 3811.73 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 62 Resp: 14526

Ion	Ratio	Lower	Upper
62	100		
64	34.4	4.4	64.4
49	31.2	1.2	61.2

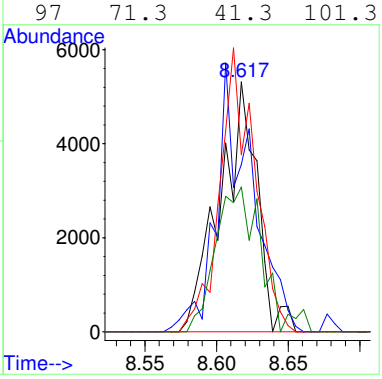


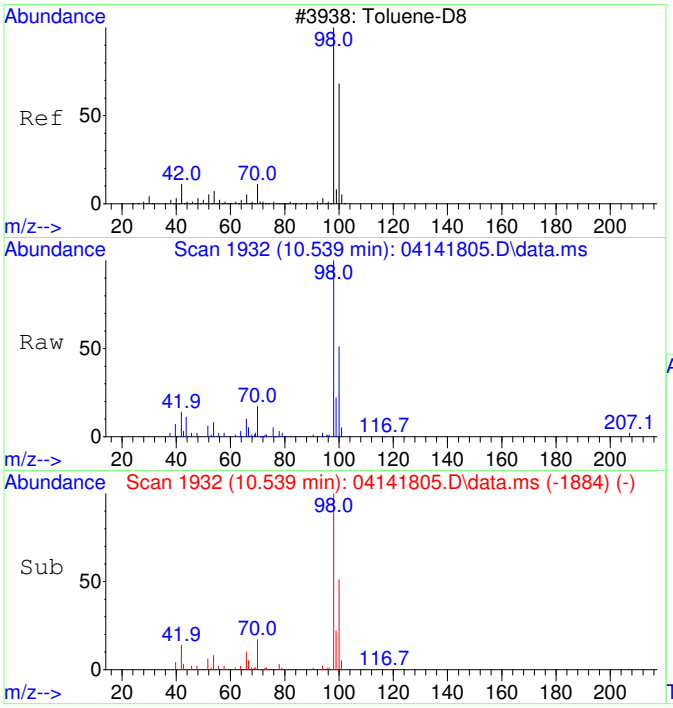


#35
Trichloroethene SCAN
Concen: 4590.70 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:130 Resp: 9625

Ion	Ratio	Lower	Upper
130	100		
95	101.3	71.3	131.3
132	105.1	75.1	135.1
97	71.3	41.3	101.3

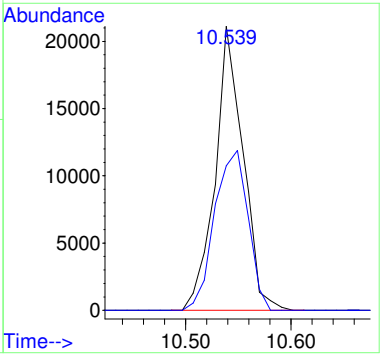


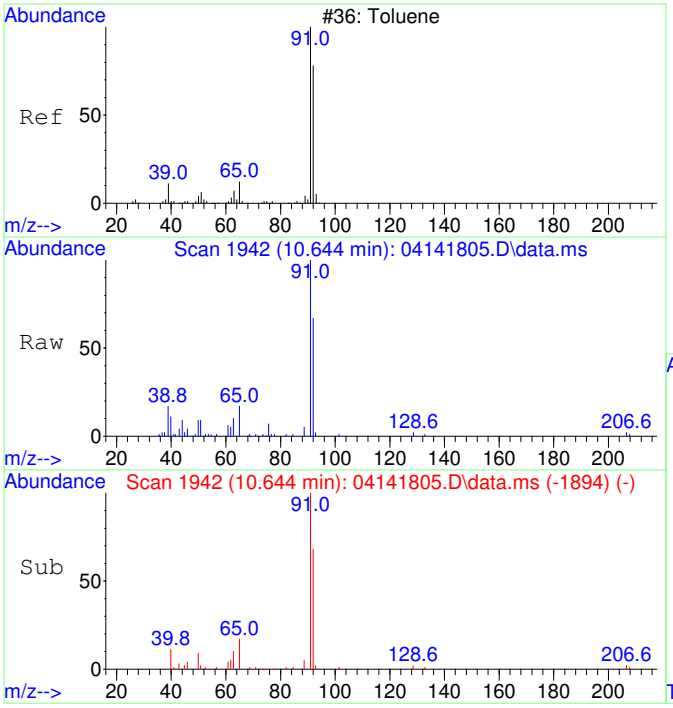


#36
Toluene-d8 SCAN
Concen: 4493.24 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 98 Resp: 39065

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.3	97.3

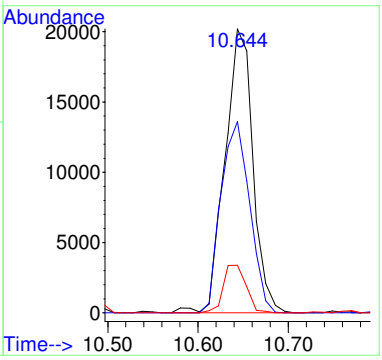


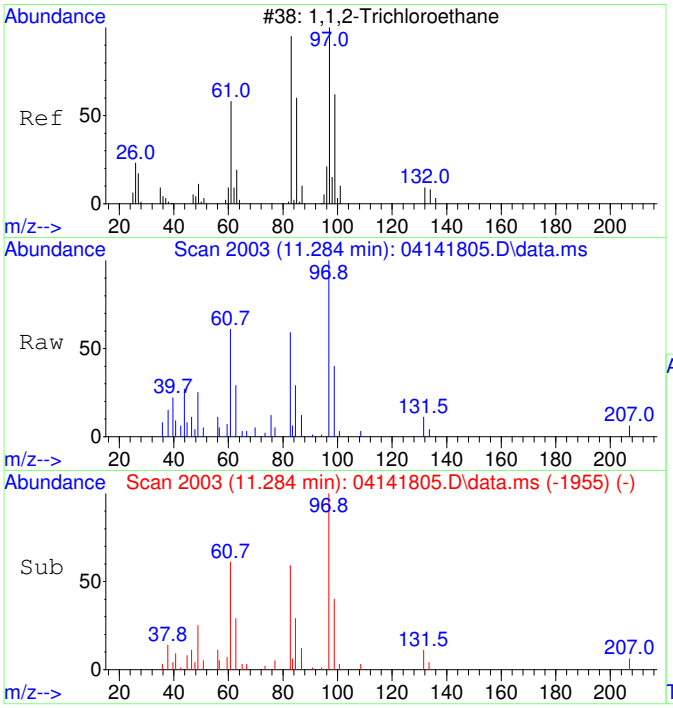


#37
Toluene SCAN
Concen: 3662.10 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 43690

Ion	Ratio	Lower	Upper
91	100		
92	69.1	39.1	99.1
65	13.8	0.0	43.8

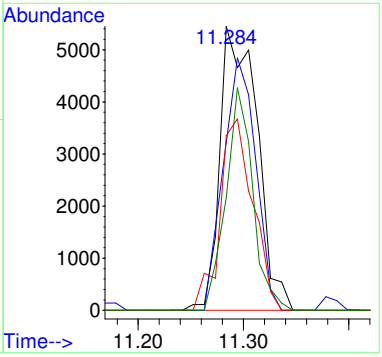


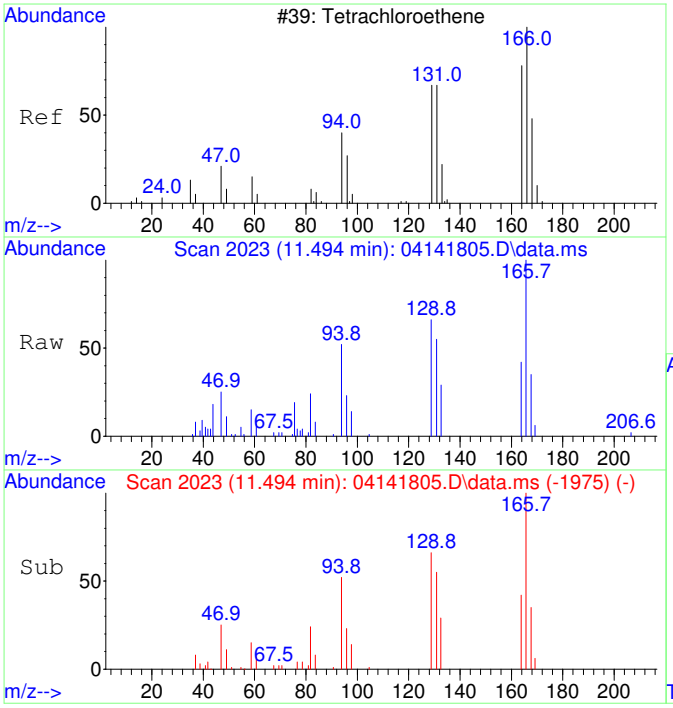


#38
1,1,2-Trichloroethane SCAN
Concen: 4711.03 ug/L
RT: 11.284 min Scan# 2003
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 97 Resp: 13380

Ion	Ratio	Lower	Upper
97	100		
83	77.4	47.4	107.4
61	59.7	29.7	89.7
99	56.5	26.5	86.5

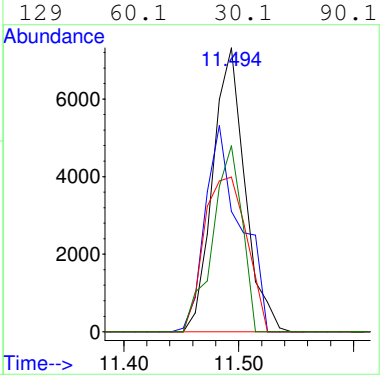


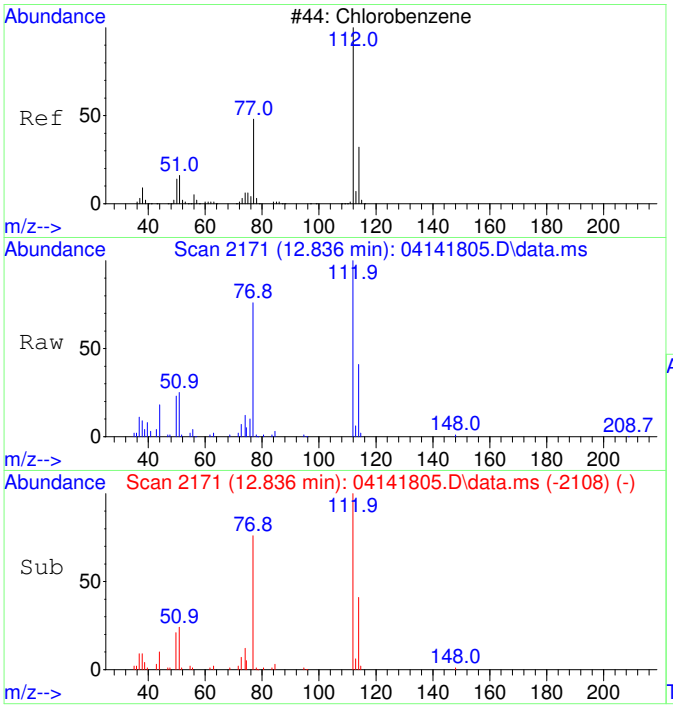


#39
Tetrachloroethene SCAN
Concen: 6066.64 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:166 Resp: 14248

Ion	Ratio	Lower	Upper
166	100		
164	79.8	49.8	109.8
131	72.0	42.0	102.0
129	60.1	30.1	90.1

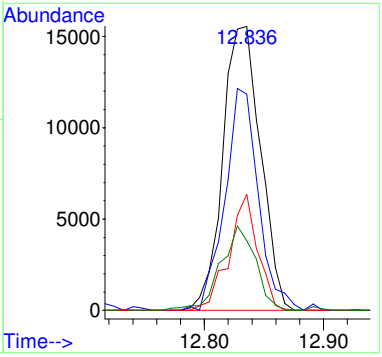


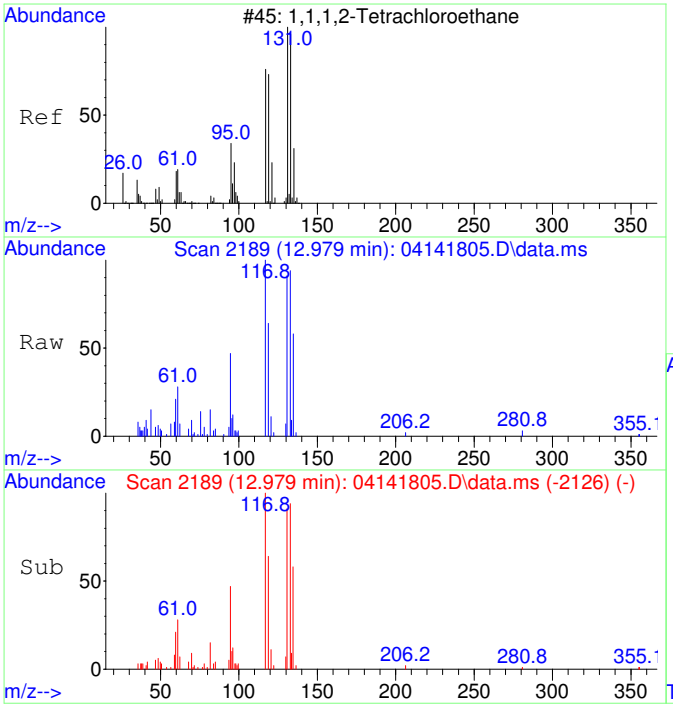


#40
Chlorobenzene SCAN
Concen: 4431.65 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:112 Resp: 34334

Ion	Ratio	Lower	Upper
112	100		
77	69.7	39.7	99.7
114	31.2	1.2	61.2
51	27.1	0.0	57.1

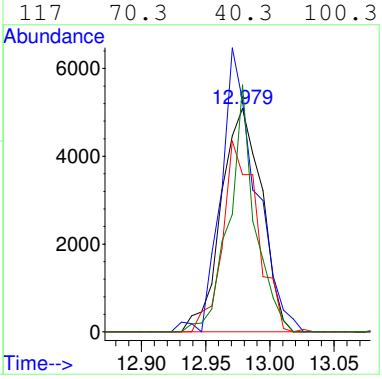


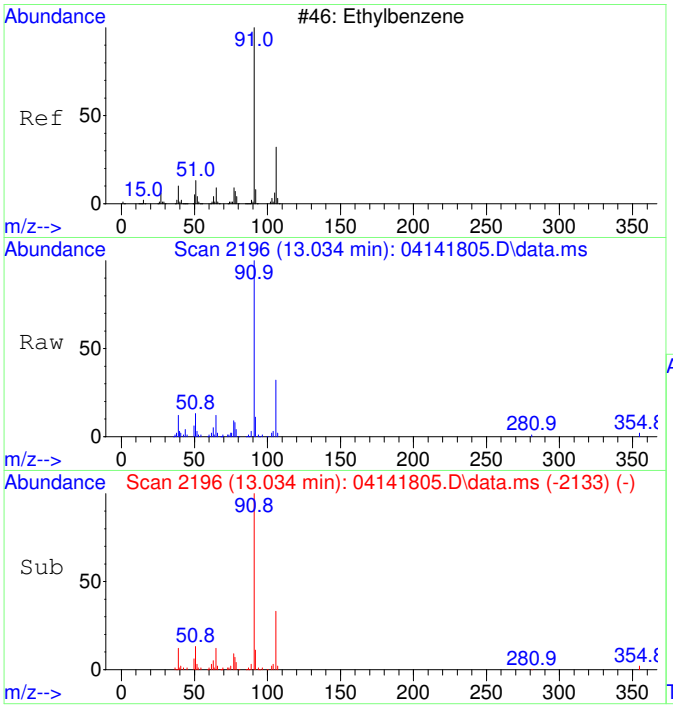


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4291.12 ug/L
RT: 12.979 min Scan# 2189
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:131 Resp: 11162

Ion	Ratio	Lower	Upper
131	100		
133	108.7	78.7	138.7
119	73.0	43.0	103.0
117	70.3	40.3	100.3

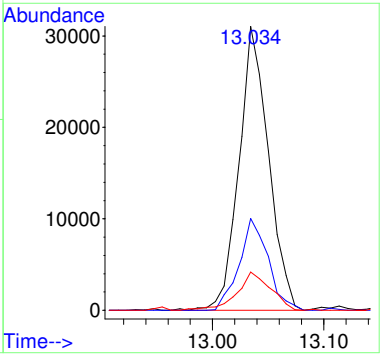


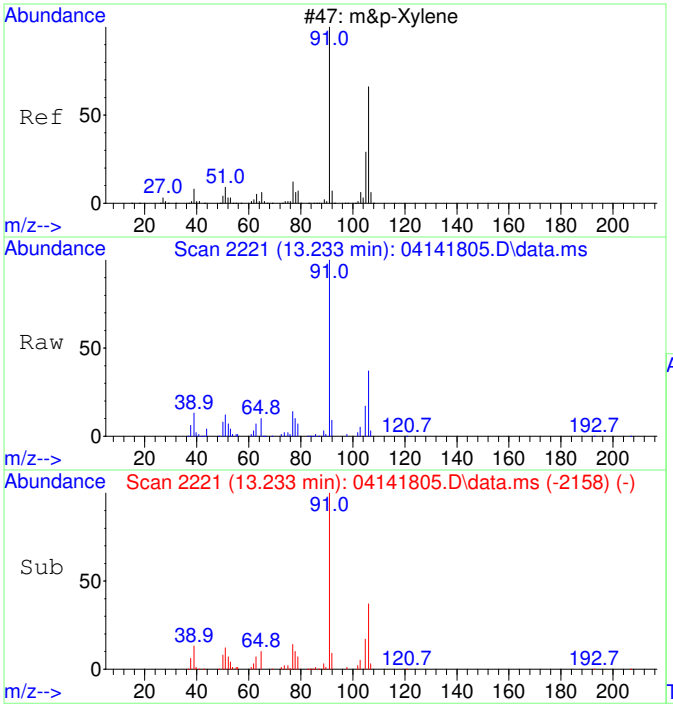


#42
Ethylbenzene SCAN
Concen: 4630.30 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 57269

Ion	Ratio	Lower	Upper
91	100		
106	31.8	1.8	61.8
51	15.4	0.0	45.4

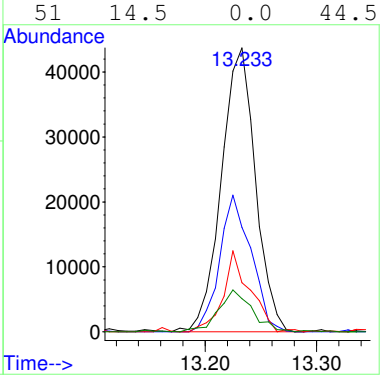


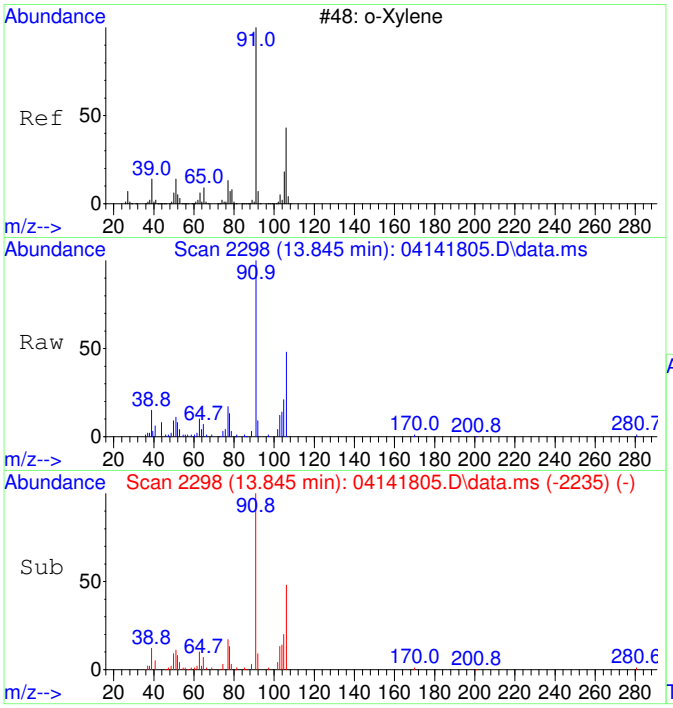


#43
m&p-Xylene SCAN
Concen: 4503.07 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 93199

Ion	Ratio	Lower	Upper
91	100		
106	44.6	14.6	74.6
105	22.8	0.0	52.8
51	14.5	0.0	44.5

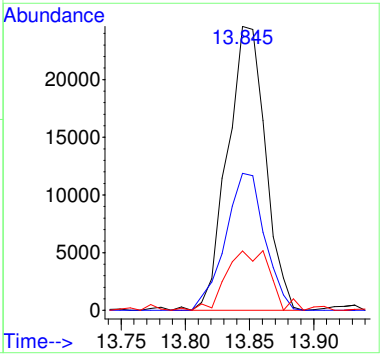


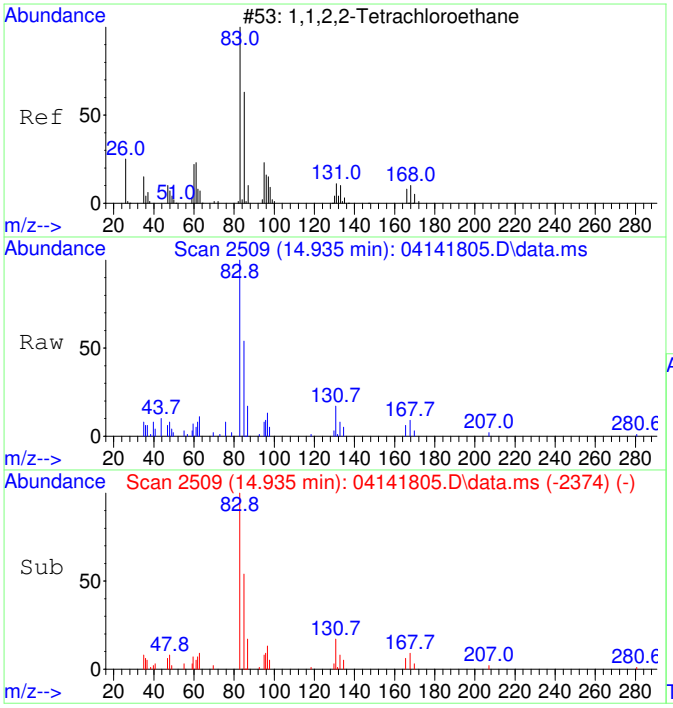


#44
o-Xylene SCAN
Concen: 4337.39 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 50466

Ion	Ratio	Lower	Upper
91	100		
106	50.2	20.2	80.2
105	24.9	0.0	54.9

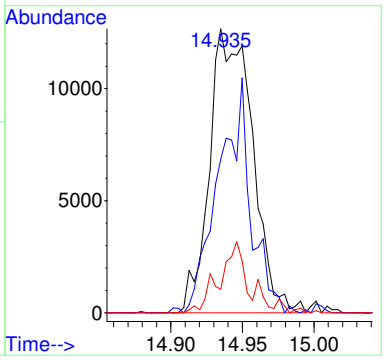


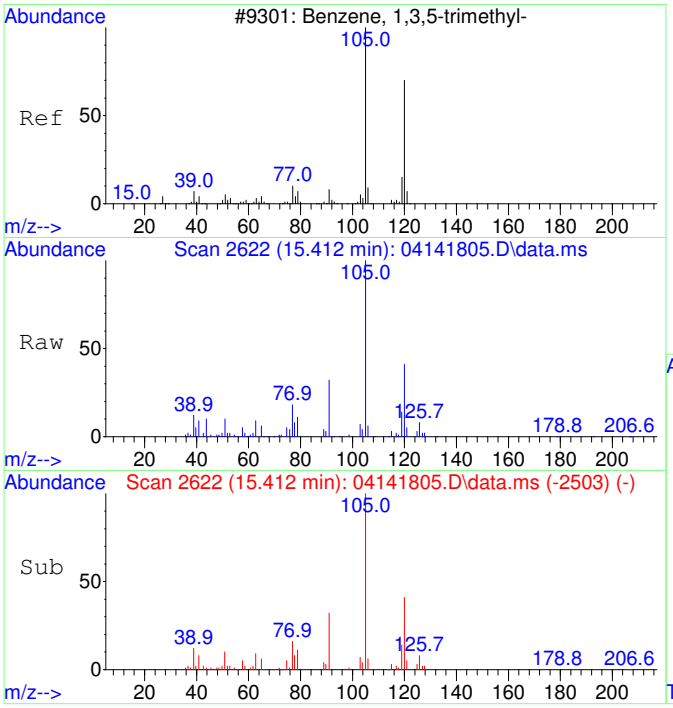


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 3394885.94 ug/L
RT: 14.935 min Scan# 2509
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 83 Resp: 26415

Ion	Ratio	Lower	Upper
83	100		
85	62.4	32.4	92.4
95	11.2	0.0	41.2

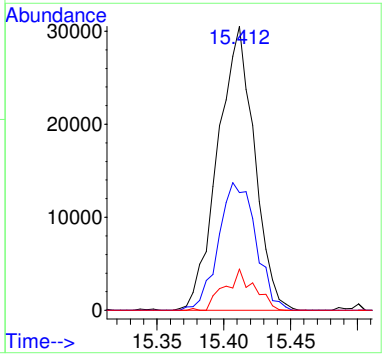


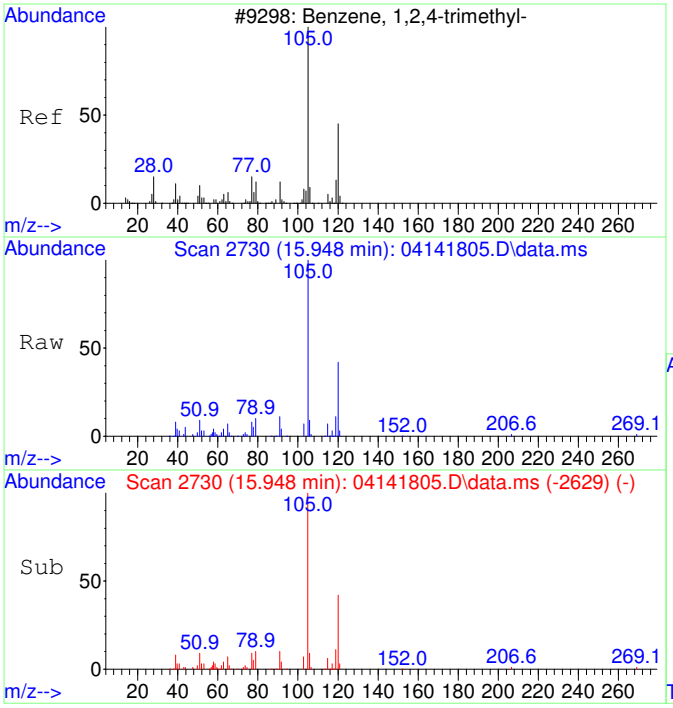


#46
1,3,5-Trimethylbenzene SCAN
Concen: 5824.78 ug/L
RT: 15.412 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:105 Resp: 58005

Ion	Ratio	Lower	Upper
105	100		
120	46.1	16.1	76.1
119	11.8	0.0	41.8

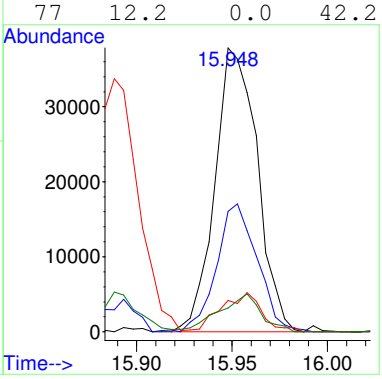


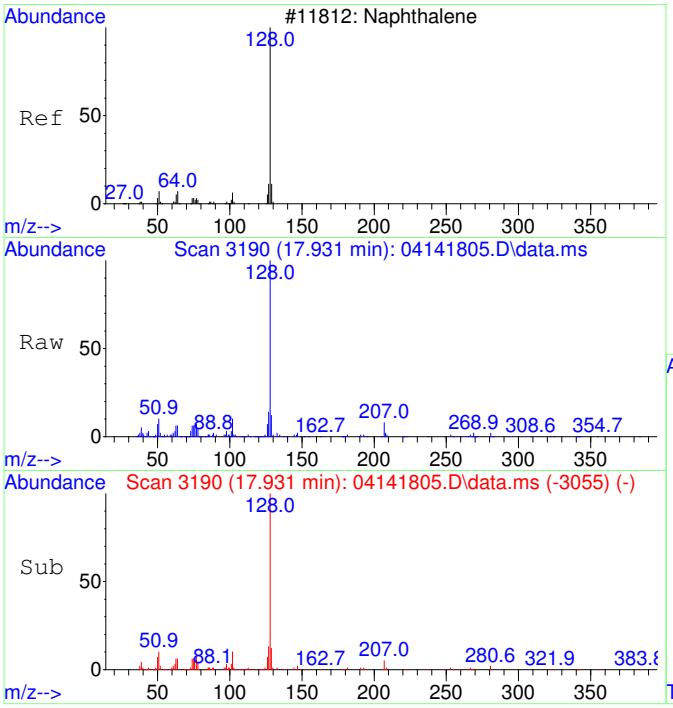


#47
1,2,4-Trimethylbenzene SCAN
Concen: 5767.48 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:105 Resp: 58469

Ion	Ratio	Lower	Upper
105	100		
120	42.8	12.8	72.8
119	12.5	0.0	42.5
77	12.2	0.0	42.2

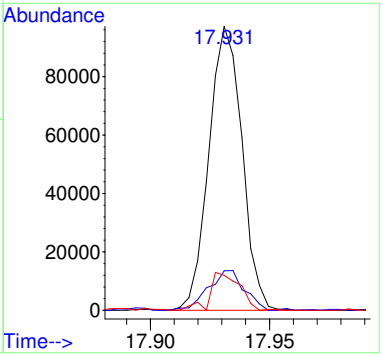


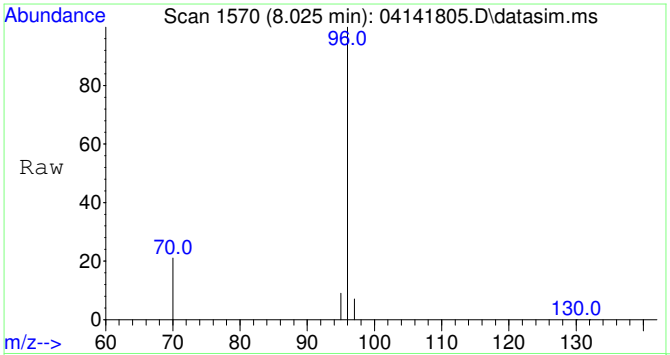


#48
Naphthalene SCAN
Concen: 6689.40 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:128 Resp: 94206

Ion	Ratio	Lower	Upper
128	100		
127	15.2	0.0	45.2
129	12.0	0.0	42.0

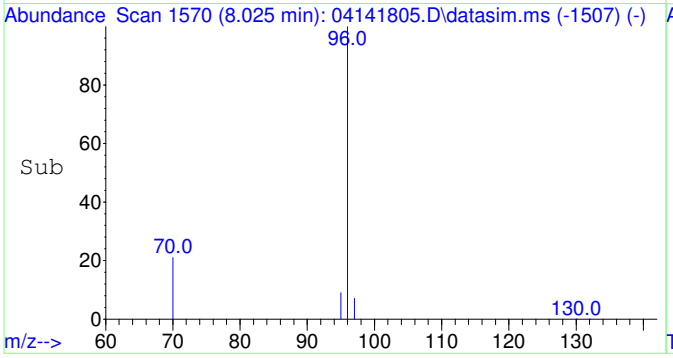


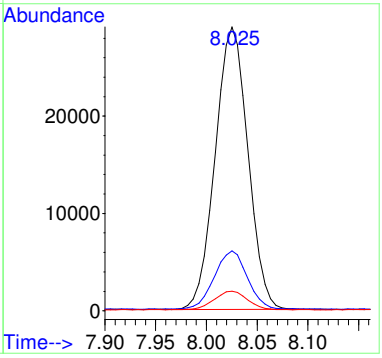


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 96 Resp: 65072

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.7	0.0	36.7





Quantitation Report (QT Reviewed)

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M.I. Performed By:

RH at 9:36 am, Apr 16, 2018

M.I. Approved By:

ZR at 3:06 pm, Apr 16, 2018

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141805.D
Acq On : 14 Apr 2018 12:27
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL3
Misc : 1745075 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 09:25:42 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

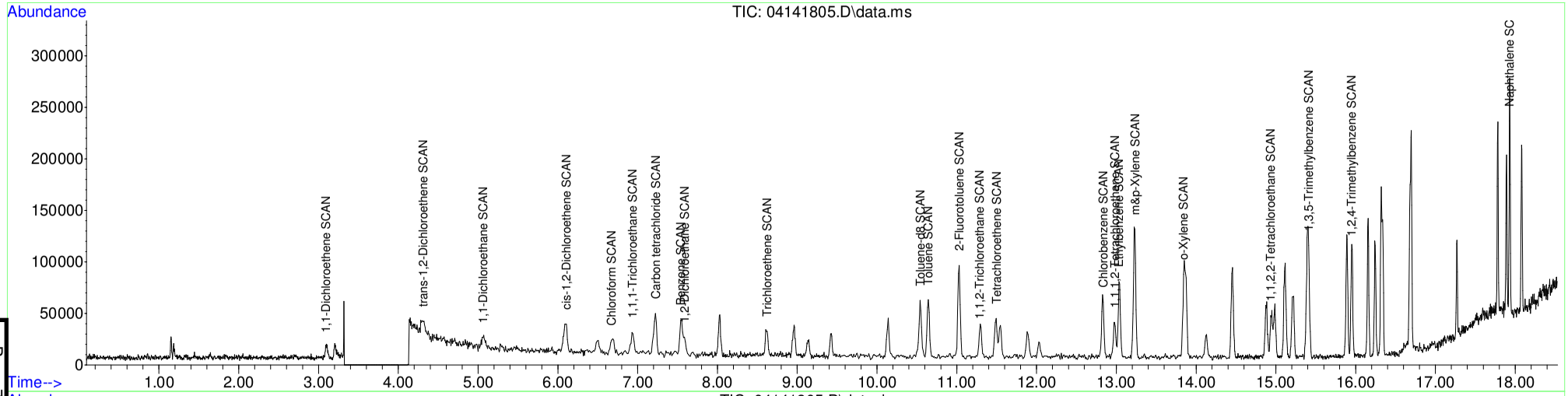
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	92093	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	65072	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	75926	5088.59 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.77%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	17999m	4083.94 ug/L	
3] trans-1,2-Dichloroethene	4.303	61	18530	4113.70 ug/L	100
4] 1,1-Dichloroethane	5.066	63	24443	4362.52 ug/L	100
5] cis-1,2-Dichloroethene	6.101	61	23382	4212.11 ug/L	100
6] Chloroform	6.676	83	26311	4239.10 ug/L	100
7] 1,1,1-Trichloroethane	6.932	97	26574	4512.79 ug/L	100
8] Carbon tetrachloride	7.211	117	24674	4558.56 ug/L	100
9] Benzene	7.540	78	67155	4440.66 ug/L	100
10] 1,2-Dichloroethane	7.588	62	23952	4313.67 ug/L	100
11] Trichloroethene	8.619	130	19357	4870.72 ug/L	100
13] Toluene	10.634	91	90448	4591.24 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	20663	4667.88 ug/L	100
15] Tetrachloroethene	11.495	166	26343	4643.67 ug/L	100
16] Chlorobenzene	12.829	112	69377	5092.09 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	22765	5349.62 ug/L	100
18] Ethylbenzene	13.036	91	112498	4852.02 ug/L	100
19] m&p-Xylene	13.226	91	175108	9709.23 ug/L	100
20] o-Xylene	13.846	91	93889	4915.74 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.944	83	43713	4771.01 ug/L	100
22] 1,3,5-Trimethylbenzene	15.408	105	115065	5651.98 ug/L	100
23] 1,2,4-Trimethylbenzene	15.949	105	120456	6005.95 ug/L	100
24] Naphthalene	17.932	128	217368	6898.80 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	44493	4046.76 ug/L	100
26) 1,1-Dichloroethene SCAN	3.092	61	9861	3409.57 ug/L	100
27) trans-1,2-Dichloroethe...	4.308	61	9662	3065.30 ug/L	100
28) 1,1-Dichloroethane SCAN	5.065	63	14784	4122.35 ug/L	100
29) cis-1,2-Dichloroethene...	6.106	61	11605	3271.91 ug/L	100
30) Chloroform SCAN	6.675	83	14002	3756.67 ug/L	100
31) 1,1,1-Trichloroethane ...	6.930	97	17571	4968.70 ug/L	100
32) Carbon tetrachloride SCAN	7.222	117	12638	4842.05 ug/L	100
33) Benzene SCAN	7.538	78	38309	3803.64 ug/L	100
34) 1,2-Dichloroethane SCAN	7.587	62	14526	3811.73 ug/L	100
35) Trichloroethene SCAN	8.617	130	9625	4590.70 ug/L	100
36) Toluene-d8 SCAN	10.539	98	39065	4493.24 ug/L	100
37) Toluene SCAN	10.644	91	43690	3662.10 ug/L	100
38) 1,1,2-Trichloroethane ...	11.284	97	13380	4711.03 ug/L	100
39) Tetrachloroethene SCAN	11.494	166	14248	6066.64 ug/L	100
40) Chlorobenzene SCAN	12.836	112	34334	4431.65 ug/L	100
41) 1,1,1,2-Tetrachloroeth...	12.979	131	11162	4291.12 ug/L	100
42) Ethylbenzene SCAN	13.034	91	57269	4630.30 ug/L	100
43) m&p-Xylene SCAN	13.233	91	93199	4503.07 ug/L	100
44) o-Xylene SCAN	13.845	91	50466	4337.39 ug/L	100
45) 1,1,2,2-Tetrachloroeth...	14.935	83	26415	3394885.94 ug/L	100
46) 1,3,5-Trimethylbenzene...	15.412	105	58005	5824.78 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.948	105	58469	5767.48 ug/L	100
48) Naphthalene SCAN	17.931	128	94206	6689.40 ug/L	100

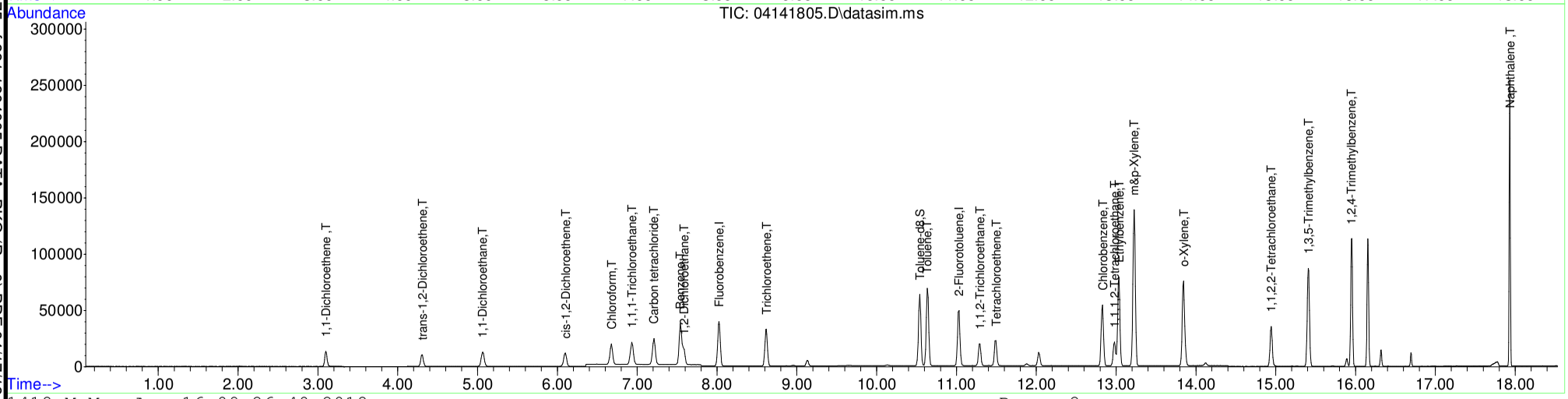
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141805.D
Acq On : 14 Apr 2018 12:27
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL3
Misc : 1745075 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 09:25:42 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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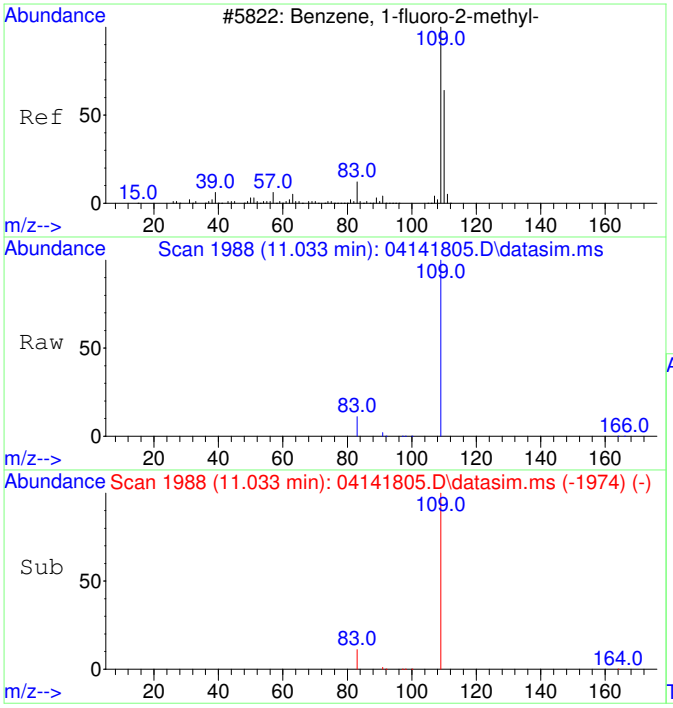
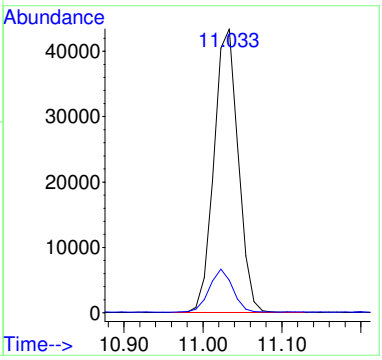
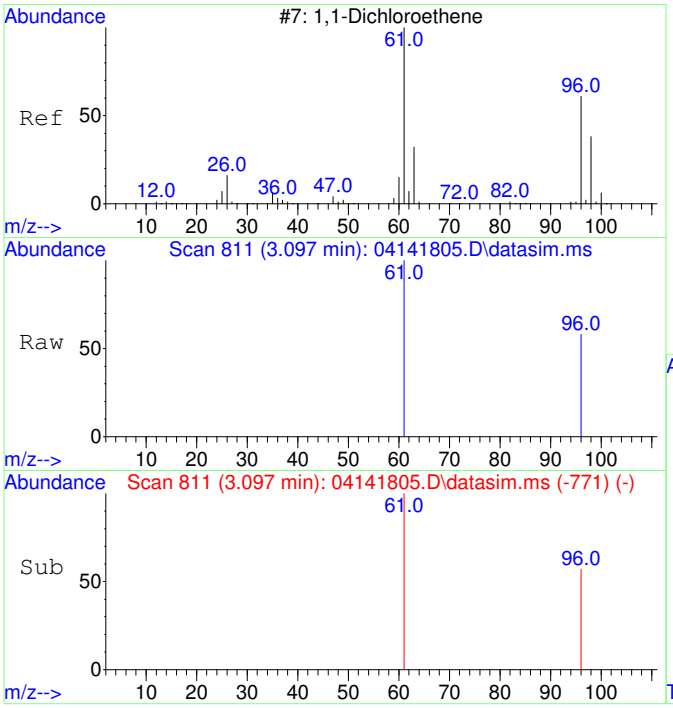


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:109 Resp: 92093

Ion	Ratio	Lower	Upper
109	100		
83	14.4	0.0	44.4

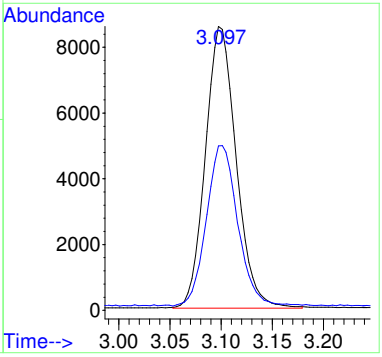


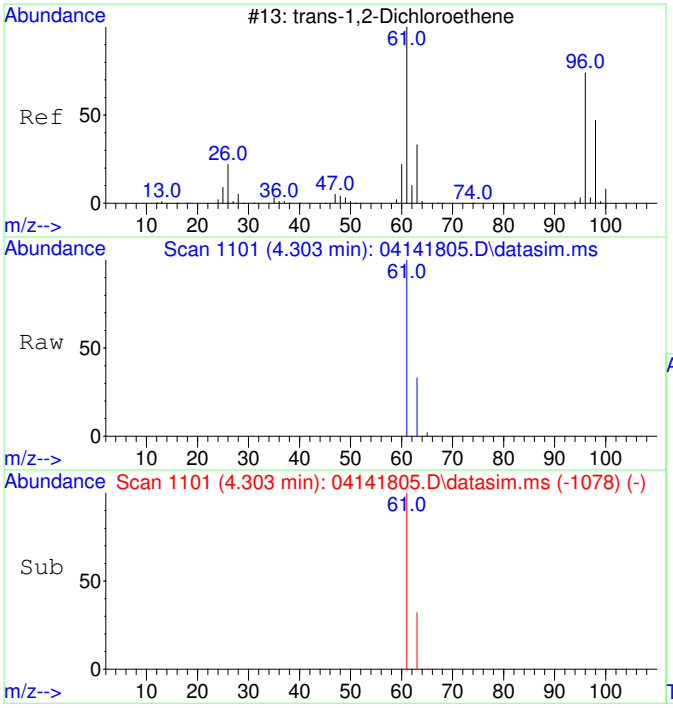


#2
1,1-Dichloroethene
Concen: 4083.94 ug/L m
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 17999

Ion	Ratio	Lower	Upper
61	100		
96	57.8	26.1	86.1

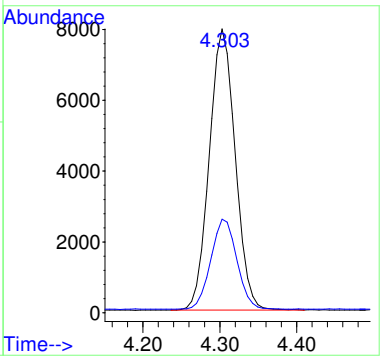


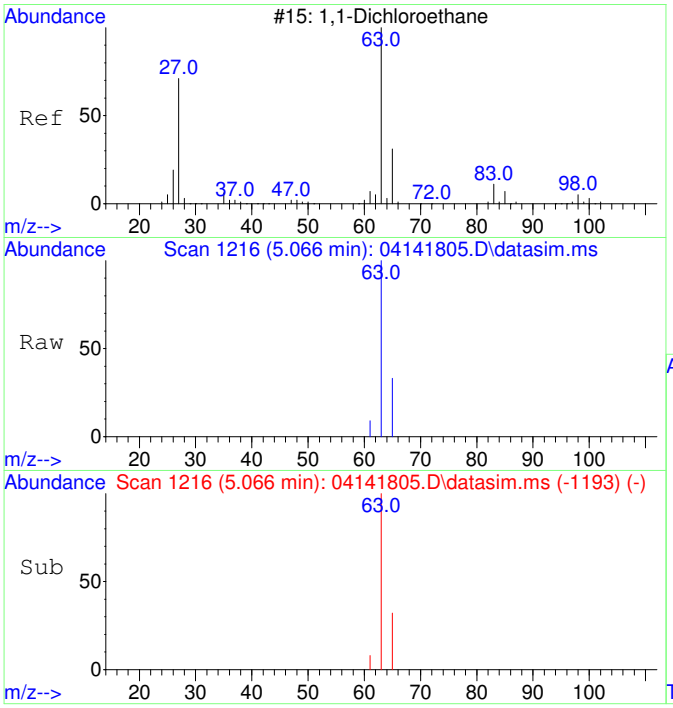


#3
trans-1,2-Dichloroethene
Concen: 4113.70 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 18530

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

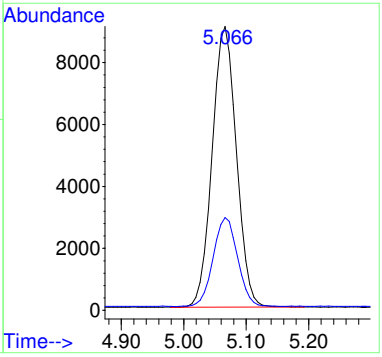


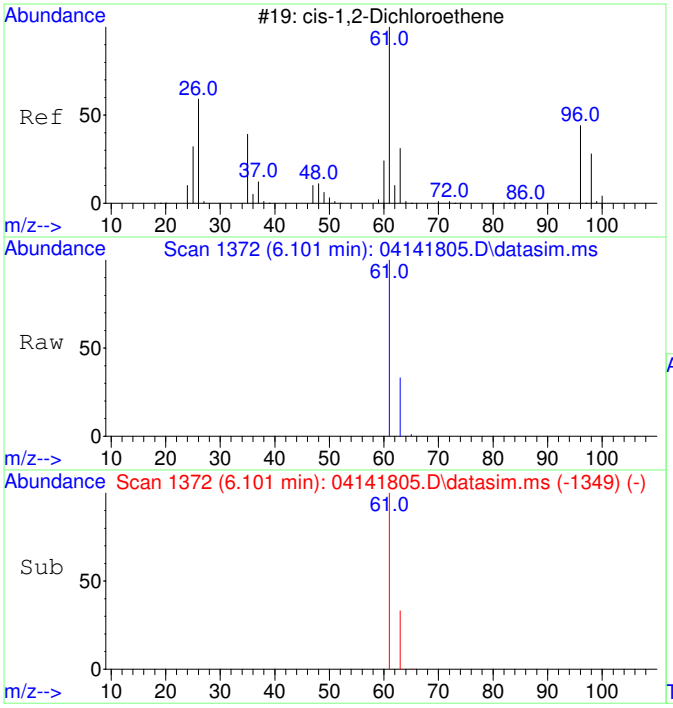


#4
1,1-Dichloroethane
Concen: 4362.52 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 63 Resp: 24443

Ion	Ratio	Lower	Upper
63	100		
65	31.8	1.8	61.8

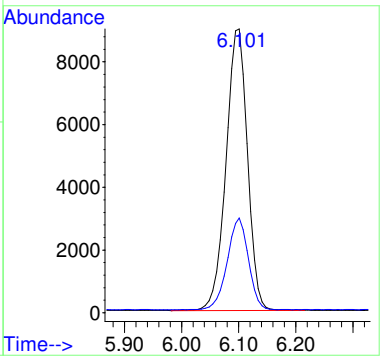


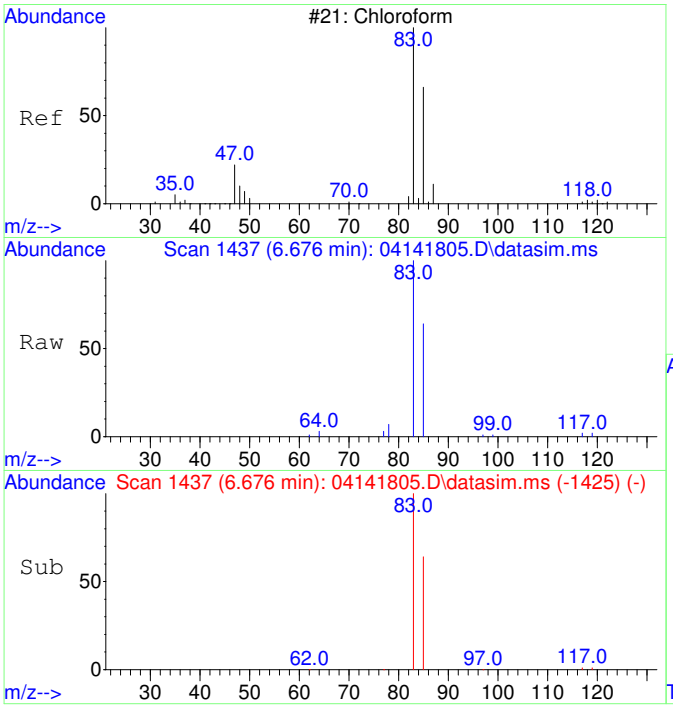


#5
cis-1,2-Dichloroethene
Concen: 4212.11 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 23382

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

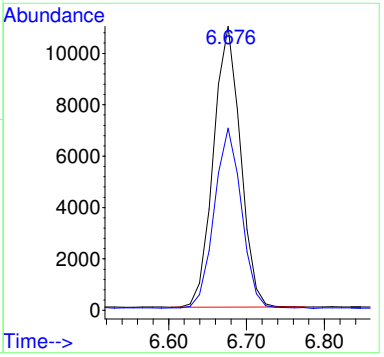


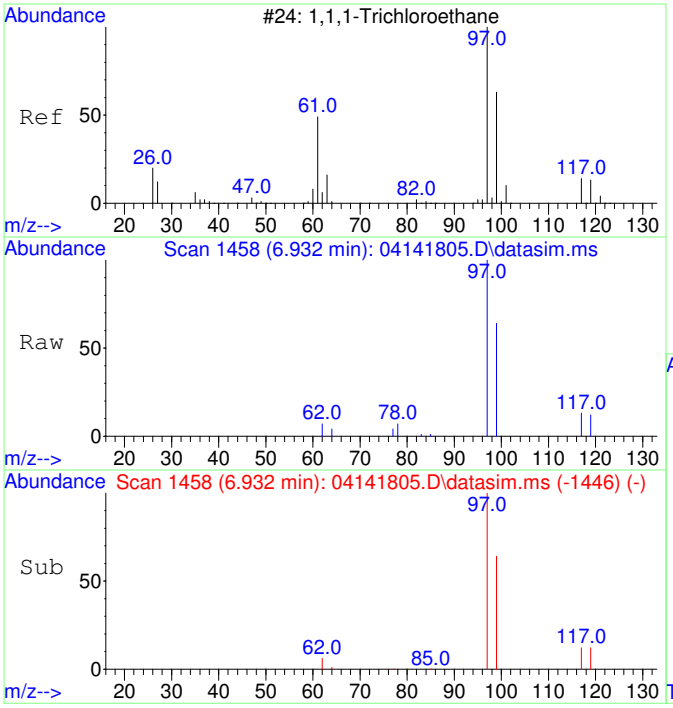


#6
Chloroform
Concen: 4239.10 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 83 Resp: 26311

Ion	Ratio	Lower	Upper
83	100		
85	64.2	34.2	94.2

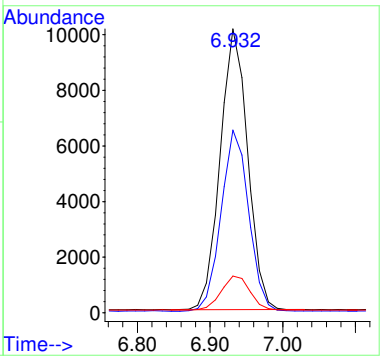


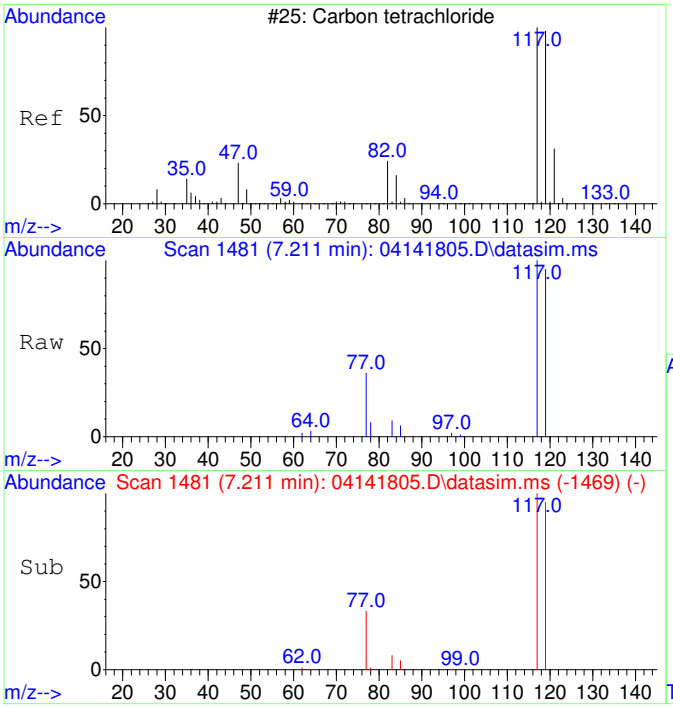


#7
1,1,1-Trichloroethane
Concen: 4512.79 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 97 Resp: 26574

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.5	94.5
117	12.6	0.0	42.6

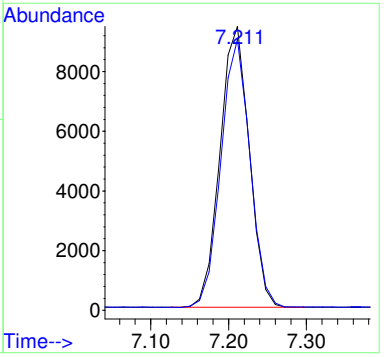


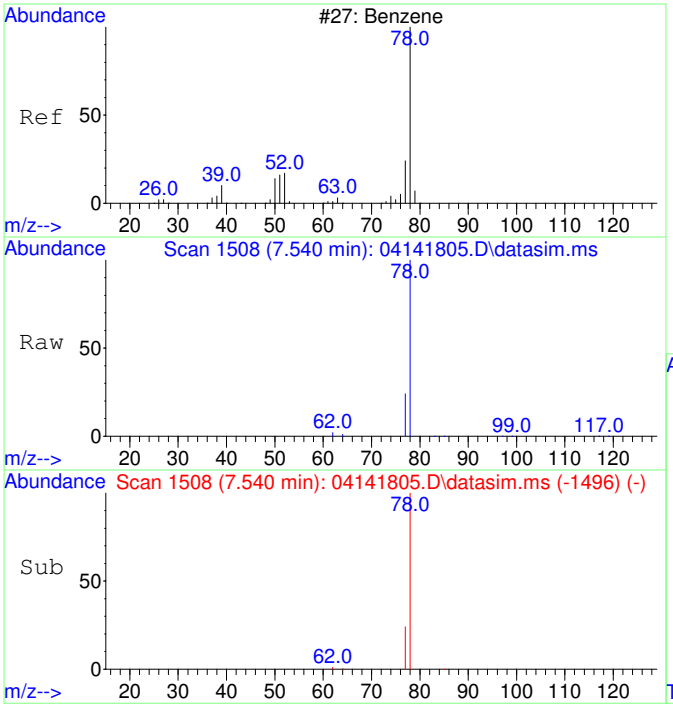


#8
Carbon tetrachloride
Concen: 4558.56 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:117 Resp: 24674

Ion	Ratio	Lower	Upper
117	100		
119	94.5	64.5	124.5

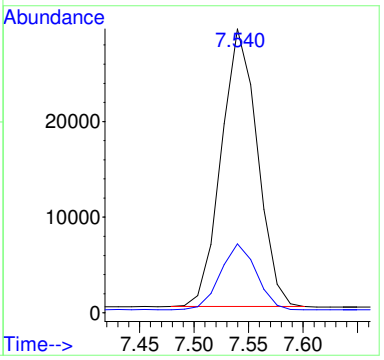


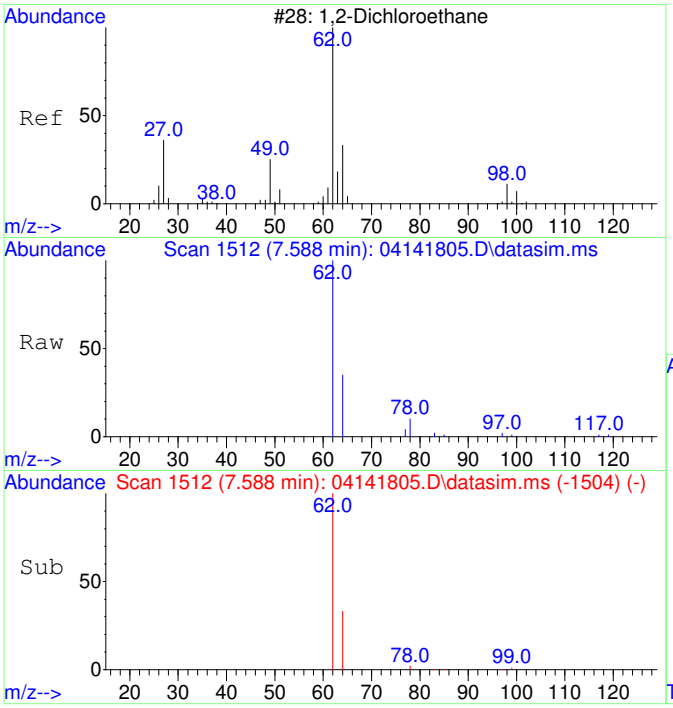


#9
Benzene
Concen: 4440.66 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 78 Resp: 67155

Ion	Ratio	Lower	Upper
78	100		
77	23.6	0.0	53.6

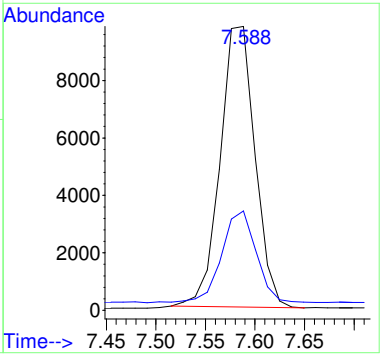


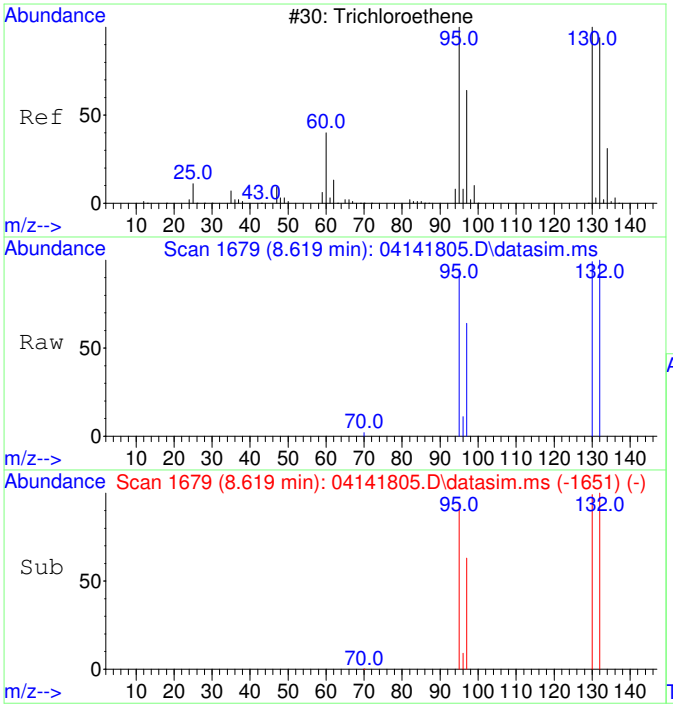


#10
1,2-Dichloroethane
Concen: 4313.67 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 62 Resp: 23952

Ion	Ratio	Lower	Upper
62	100		
64	31.8	1.8	61.8

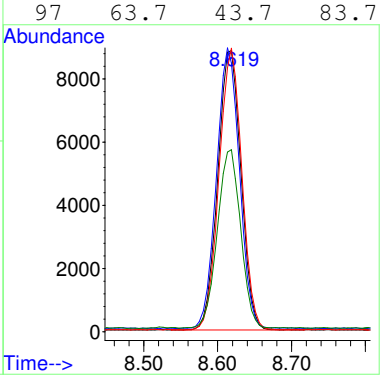


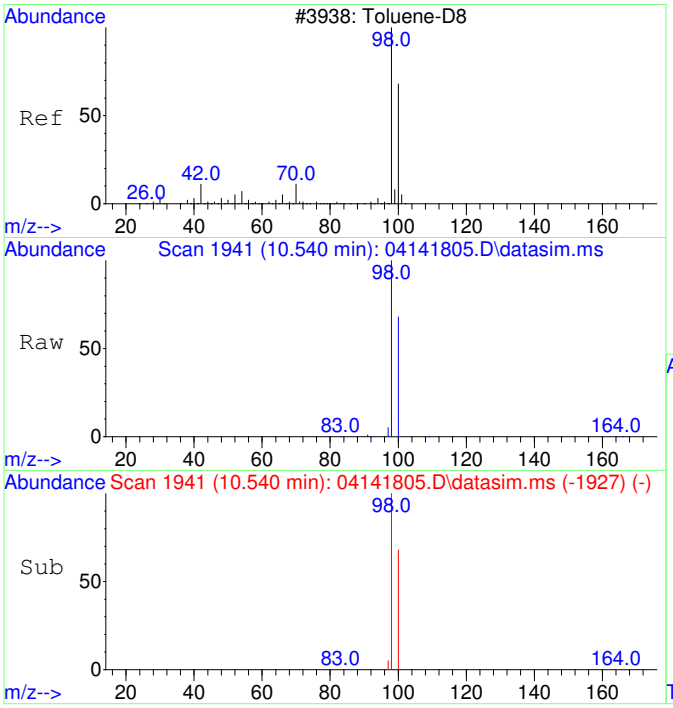


#11
Trichloroethene
Concen: 4870.72 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:130 Resp: 19357

Ion	Ratio	Lower	Upper
130	100		
95	98.8	68.8	128.8
132	98.6	78.6	118.6
97	63.7	43.7	83.7

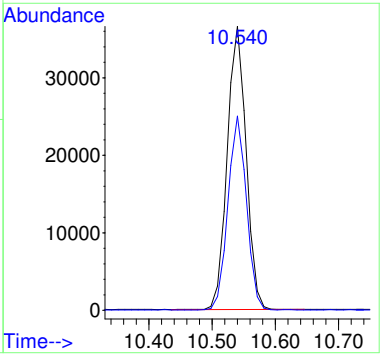


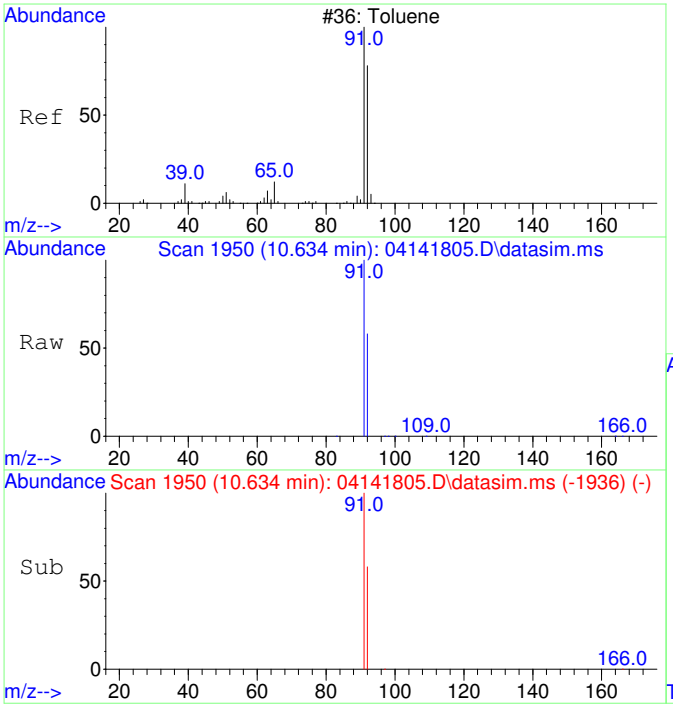


#12
Toluene-d8
Concen: 5088.59 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 98 Resp: 75926

Ion	Ratio	Lower	Upper
98	100		
100	66.9	36.9	96.9

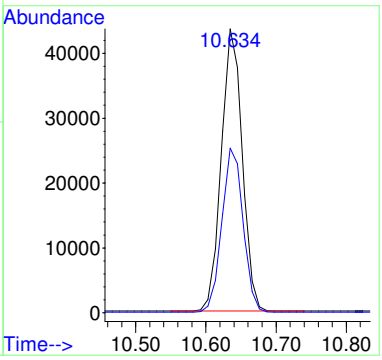


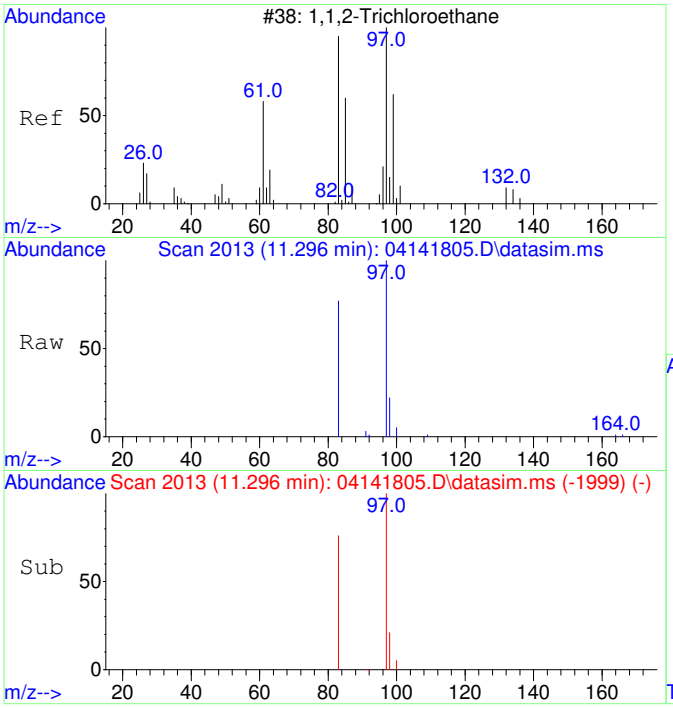


#13
Toluene
Concen: 4591.24 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 90448

Ion	Ratio	Lower	Upper
91	100		
92	58.8	28.8	88.8

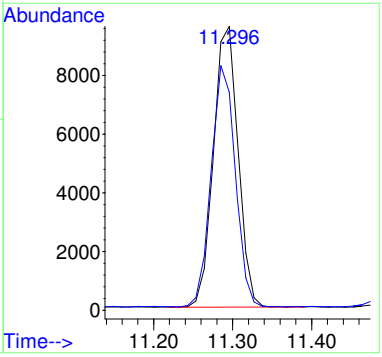


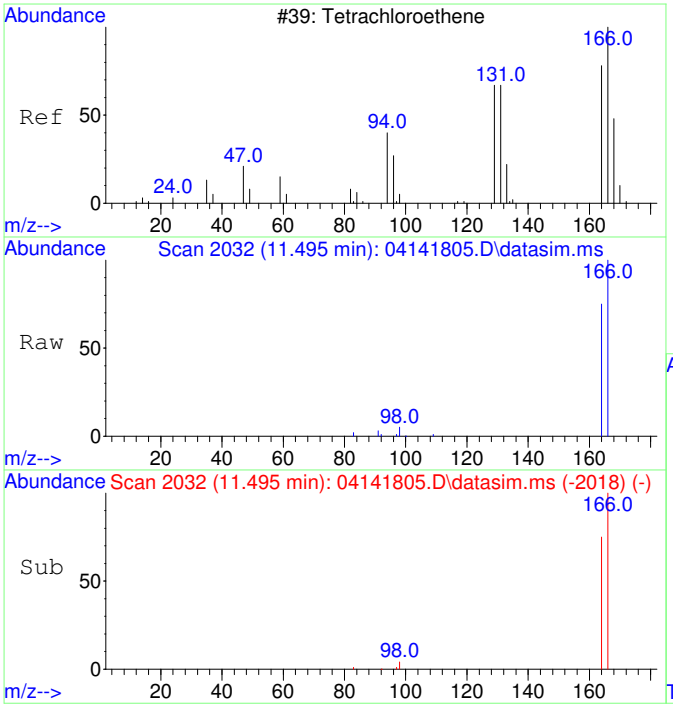


#14
1,1,2-Trichloroethane
Concen: 4667.88 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 97 Resp: 20663

Ion	Ratio	Lower	Upper
97	100		
83	84.3	54.3	114.3

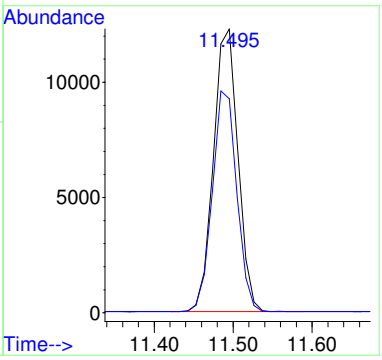


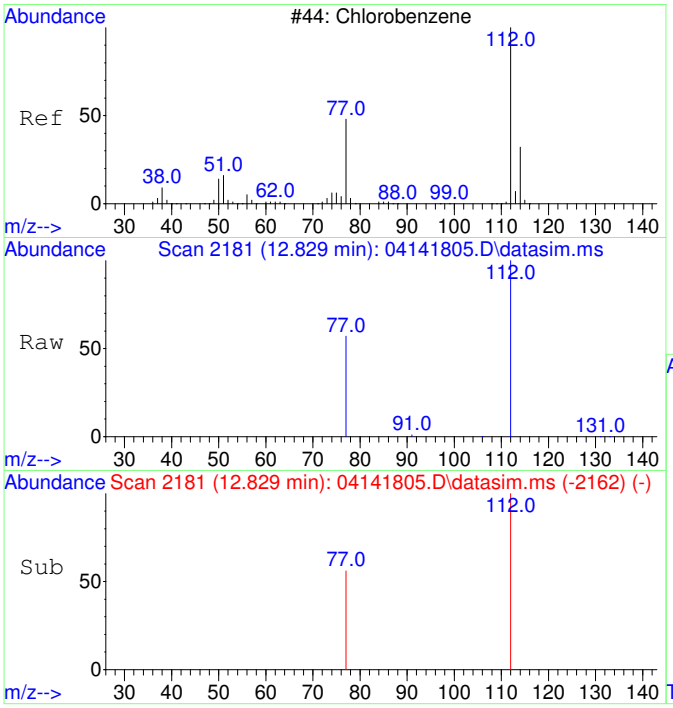


#15
Tetrachloroethene
Concen: 4643.67 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:166 Resp: 26343

Ion	Ratio	Lower	Upper
166	100		
164	78.0	48.0	108.0

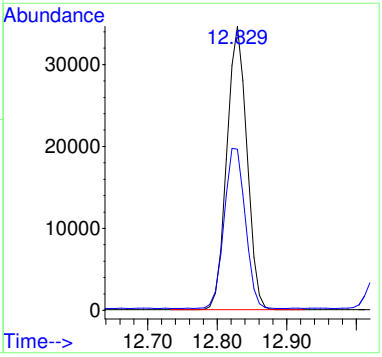


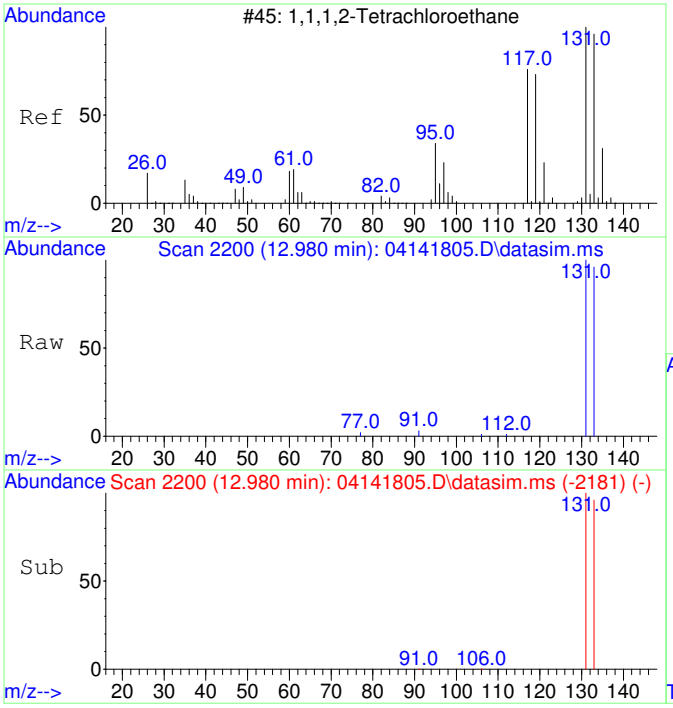


#16
Chlorobenzene
Concen: 5092.09 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:112 Resp: 69377

Ion	Ratio	Lower	Upper
112	100		
77	59.4	29.4	89.4

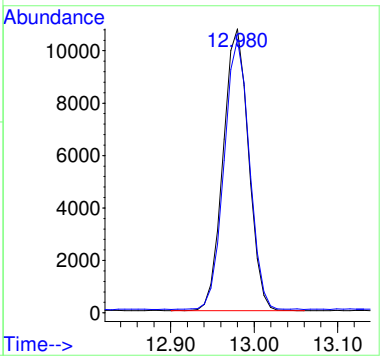


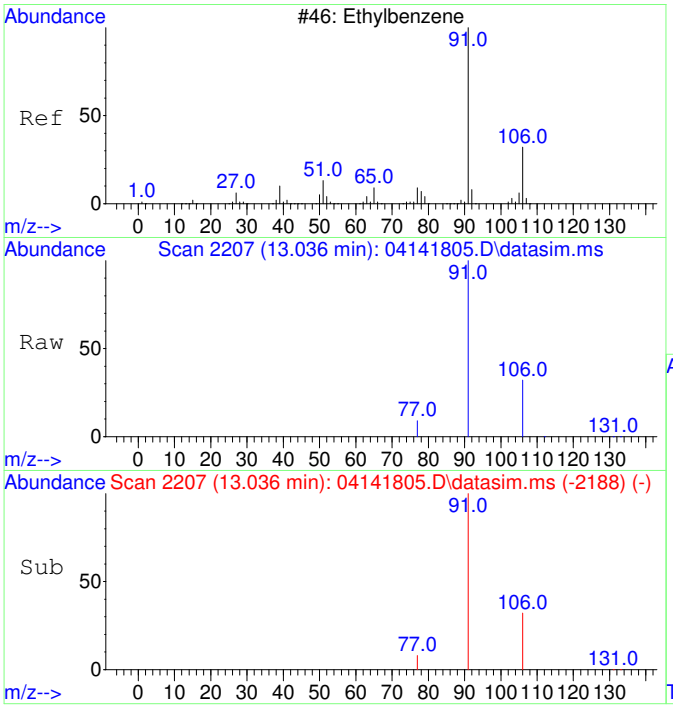


#17
1,1,1,2-Tetrachloroethane
Concen: 5349.62 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:131 Resp: 22765

Ion	Ratio	Lower	Upper
131	100		
133	95.1	65.1	125.1

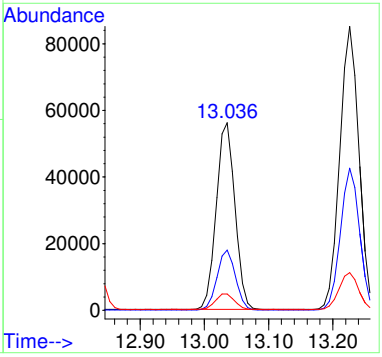


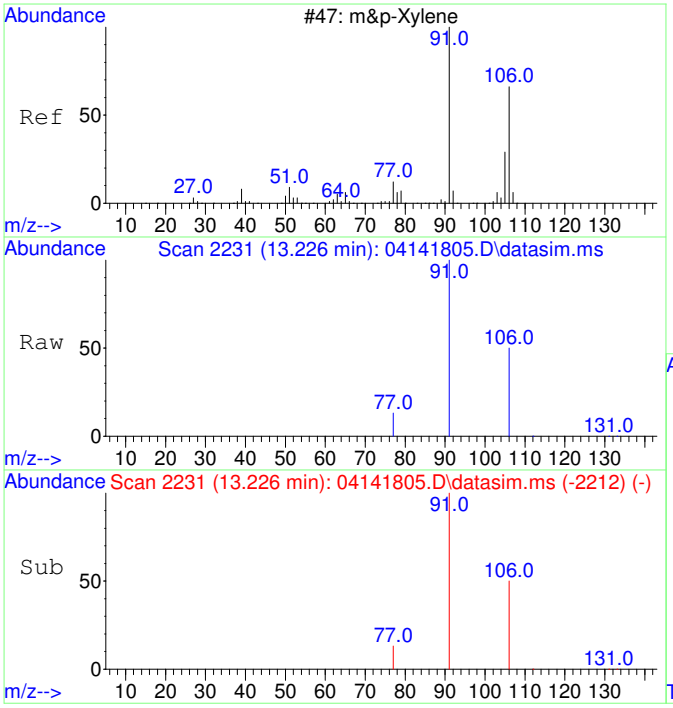


#18
Ethylbenzene
Concen: 4852.02 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 112498

Ion	Ratio	Lower	Upper
91	100		
106	31.8	1.8	61.8
77	8.7	0.0	38.7

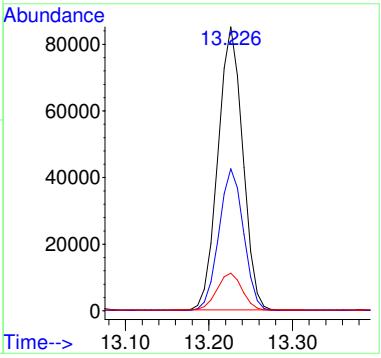


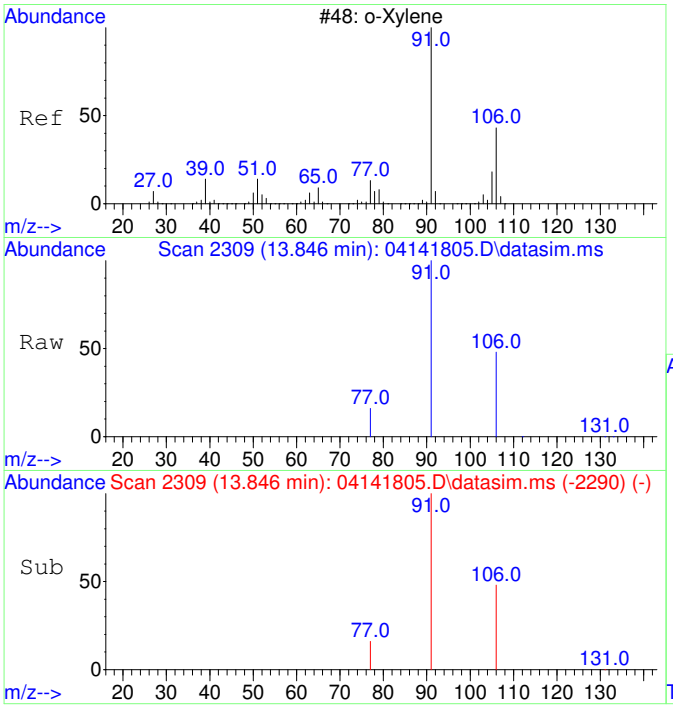


#19
m&p-Xylene
Concen: 9709.23 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 175108

Ion	Ratio	Lower	Upper
91	100		
106	50.0	20.0	80.0
77	13.4	0.0	43.4

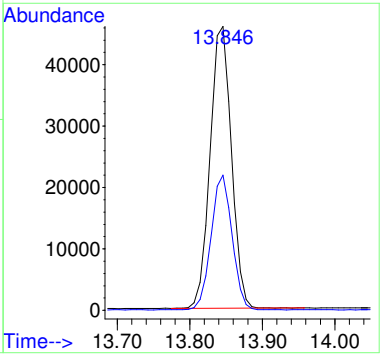


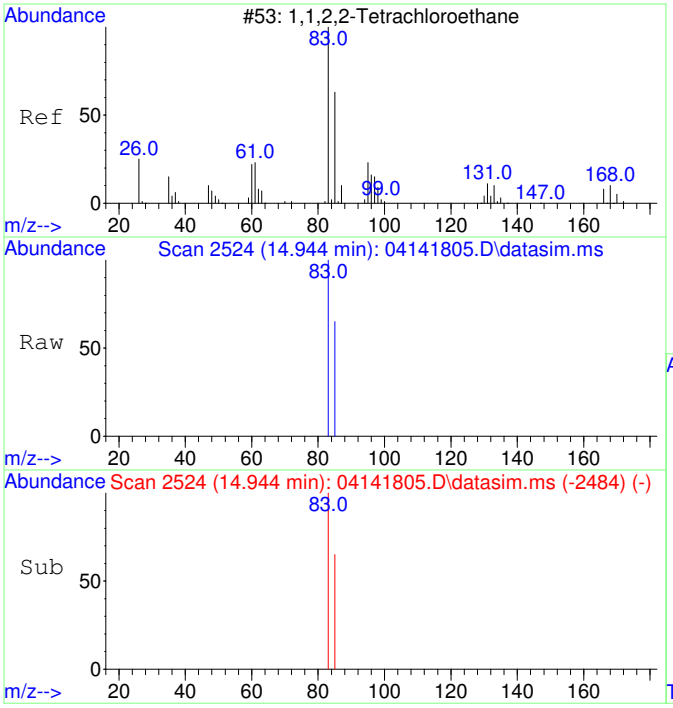


#20
o-Xylene
Concen: 4915.74 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 93889

Ion	Ratio	Lower	Upper
91	100		
106	46.9	16.9	76.9

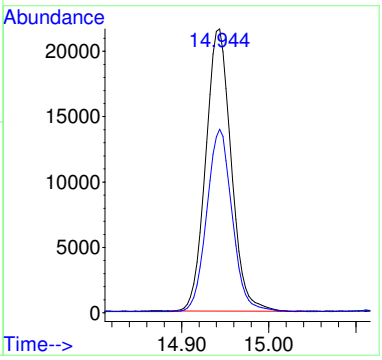


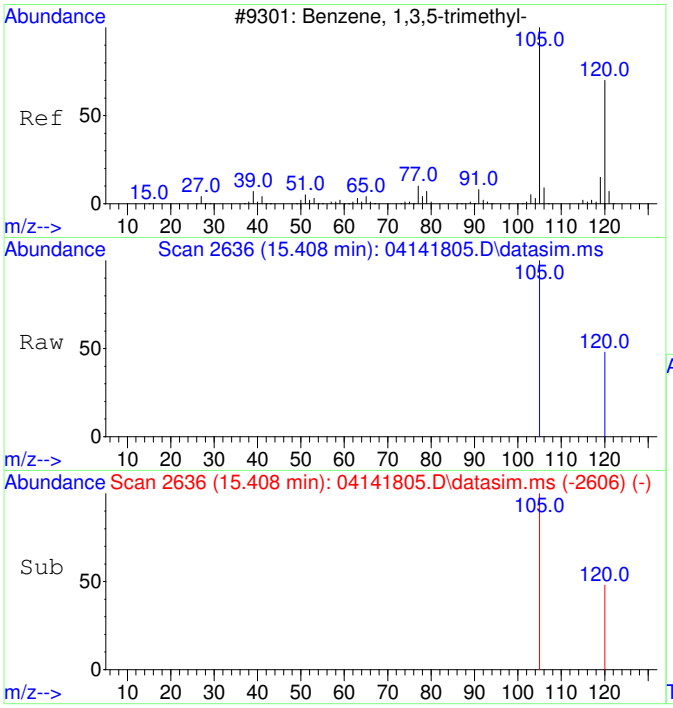


#21
1,1,2,2-Tetrachloroethane
Concen: 4771.01 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 83 Resp: 43713

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.3	94.3

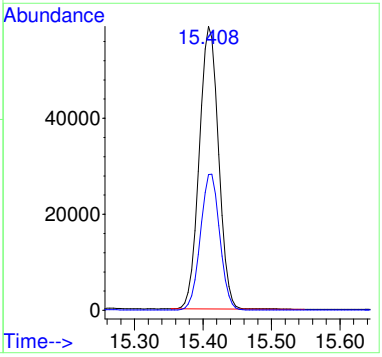


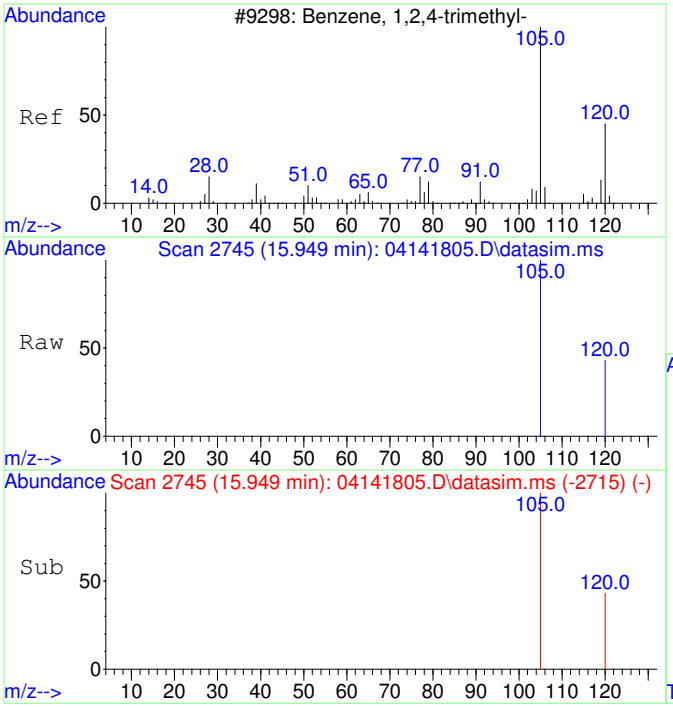


#22
1,3,5-Trimethylbenzene
Concen: 5651.98 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:105 Resp: 115065

Ion	Ratio	Lower	Upper
105	100		
120	48.1	18.1	78.1

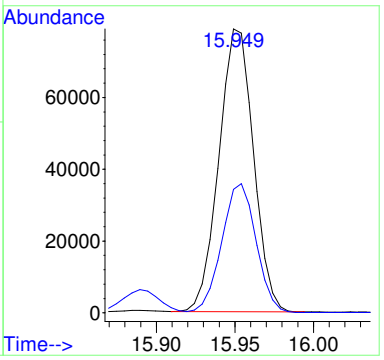


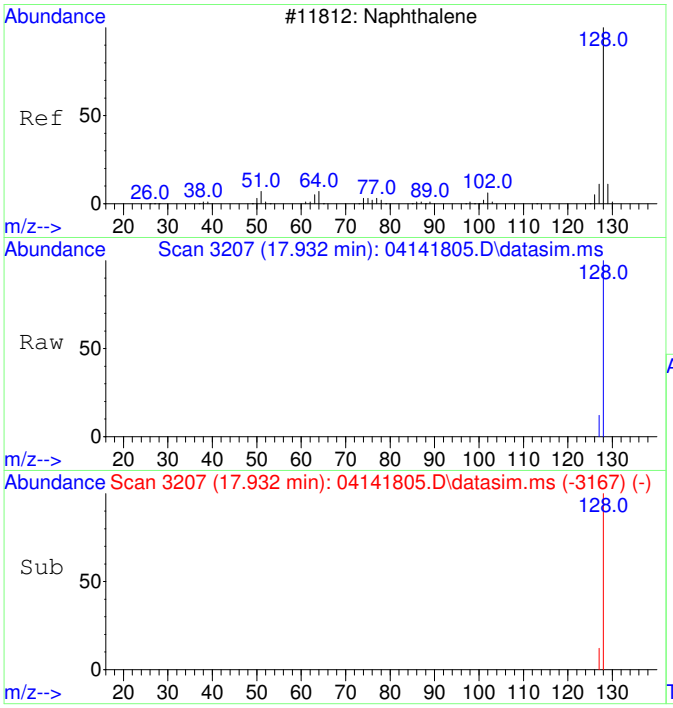


#23
1,2,4-Trimethylbenzene
Concen: 6005.95 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:105 Resp: 120456

Ion	Ratio	Lower	Upper
105	100		
120	44.5	14.5	74.5

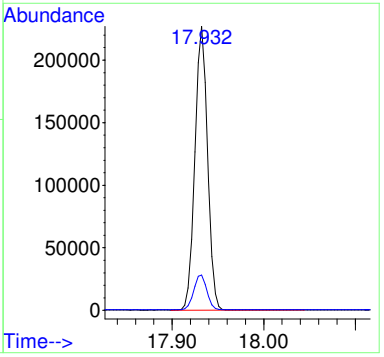


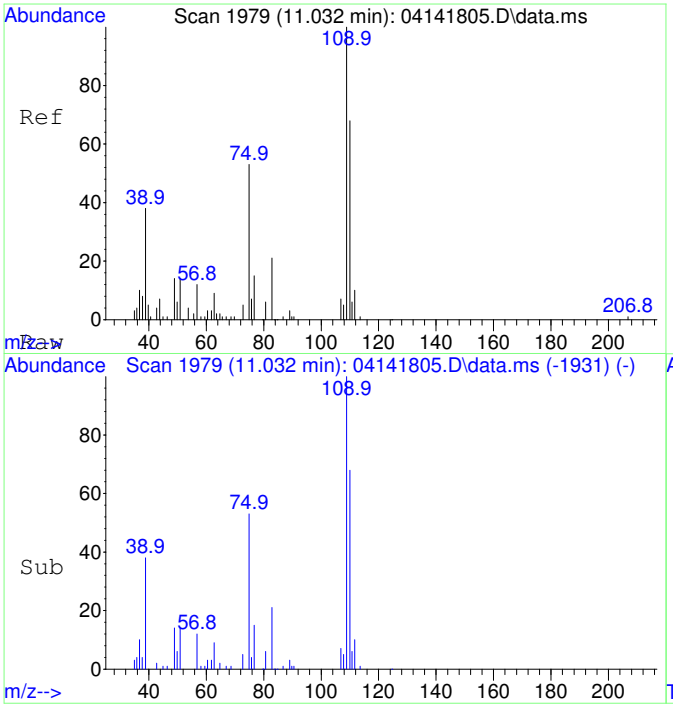


#24
Naphthalene
Concen: 6898.80 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:128 Resp: 217368

Ion	Ratio	Lower	Upper
128	100		
127	12.7	0.0	42.7

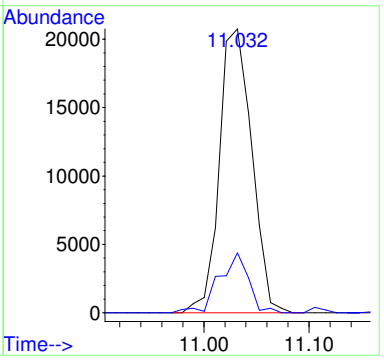


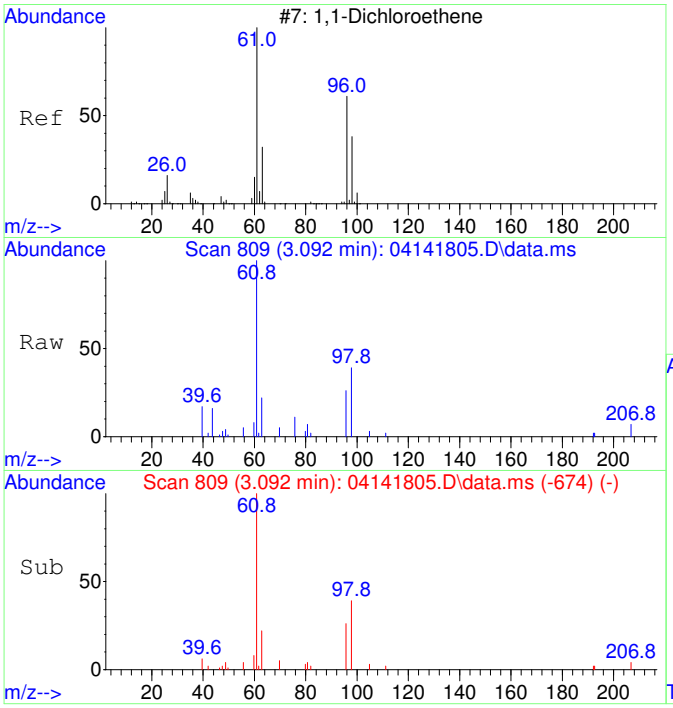


#25
2-Fluorotoluene SCAN
Concen: 4046.76 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:109 Resp: 44493

Ion	Ratio	Lower	Upper
109	100		
83	19.2	0.0	49.2

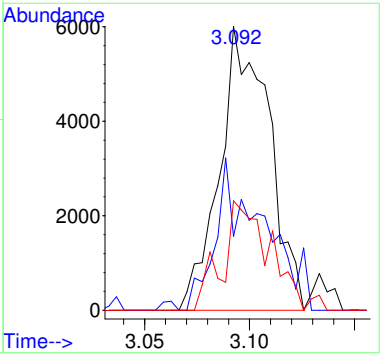


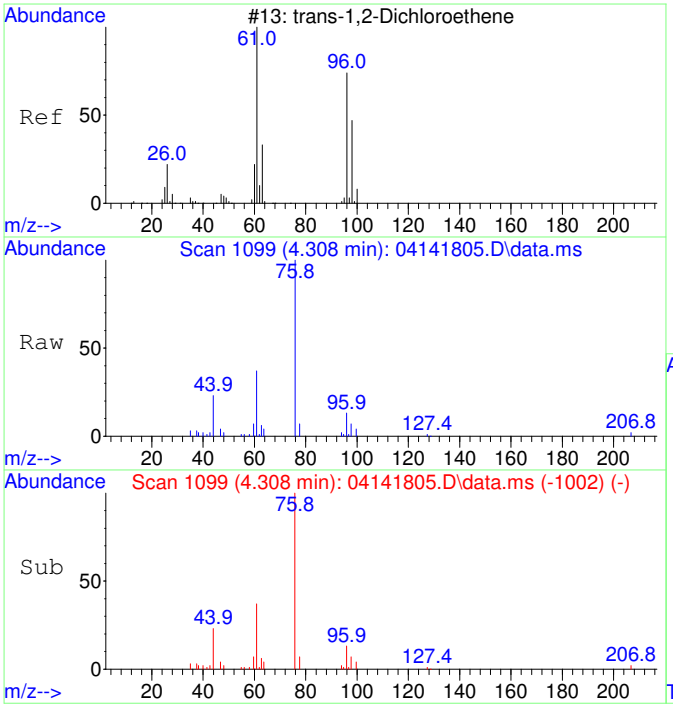


#26
1,1-Dichloroethene SCAN
Concen: 3409.57 ug/L
RT: 3.092 min Scan# 809
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 9861

Ion	Ratio	Lower	Upper
61	100		
96	51.6	21.6	81.6
98	37.5	7.5	67.5

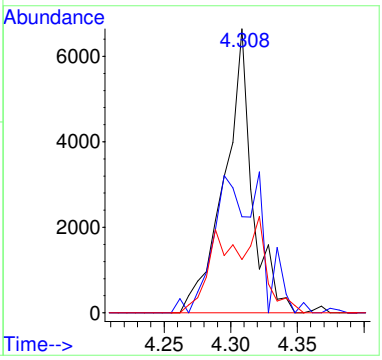


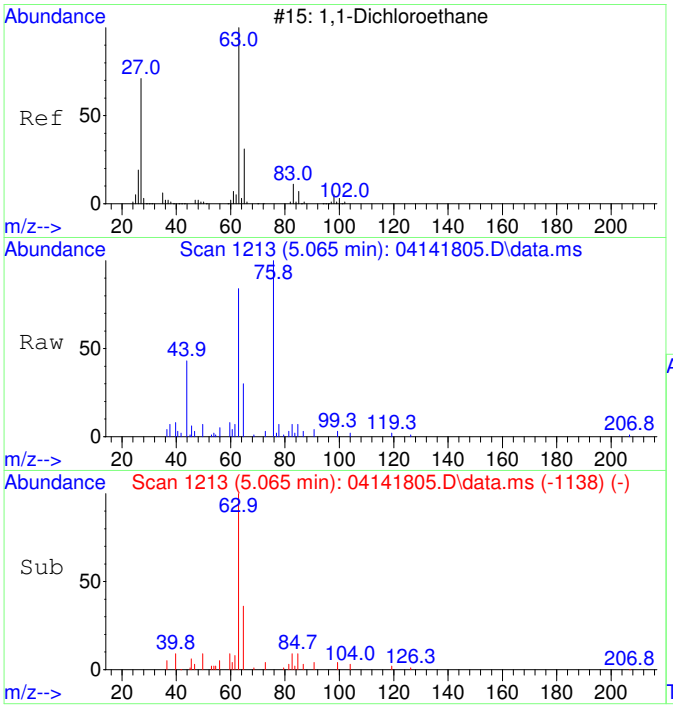


#27
trans-1,2-Dichloroethene SCAN
Concen: 3065.30 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 9662

Ion	Ratio	Lower	Upper
61	100		
96	81.8	51.8	111.8
98	52.7	22.7	82.7

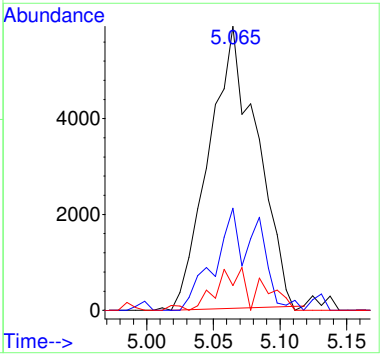


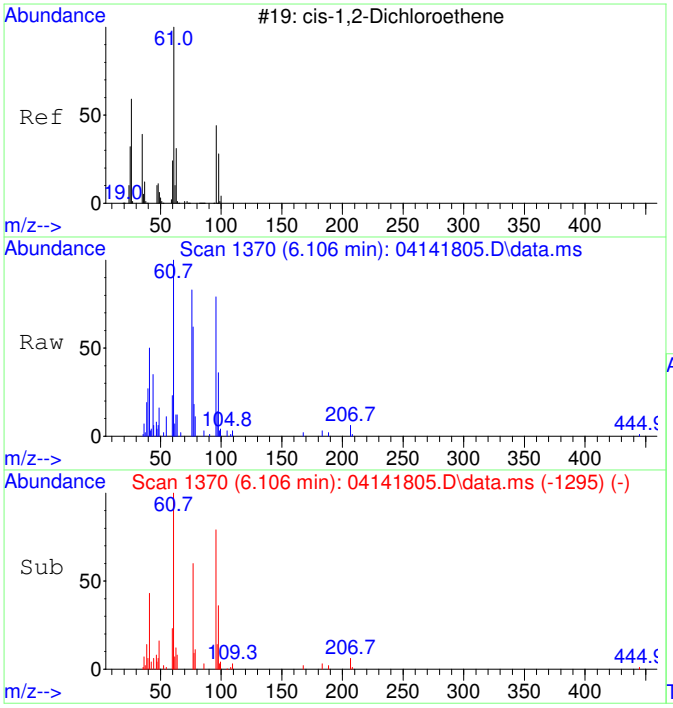


#28
1,1-Dichloroethane SCAN
Concen: 4122.35 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 63 Resp: 14784

Ion	Ratio	Lower	Upper
63	100		
65	32.2	2.2	62.2
83	8.2	0.0	38.2

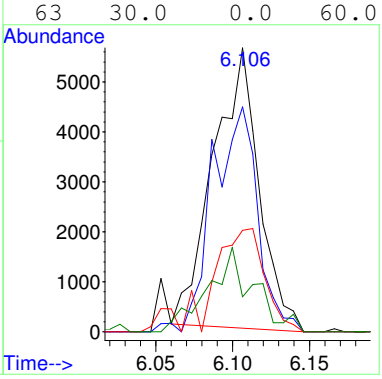


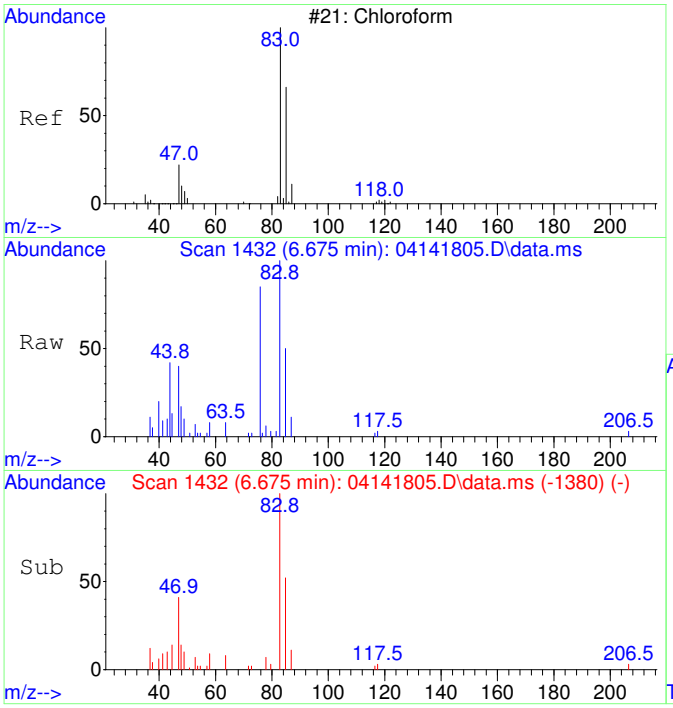


#29
cis-1,2-Dichloroethene SCAN
Concen: 3271.91 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 61 Resp: 11605

Ion	Ratio	Lower	Upper
61	100		
96	79.4	49.4	109.4
98	39.5	9.5	69.5
63	30.0	0.0	60.0

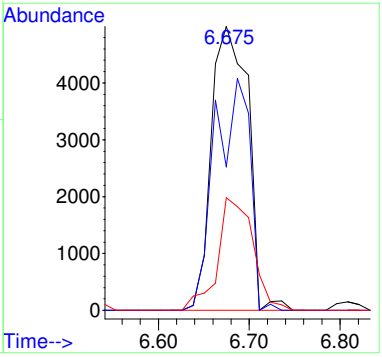


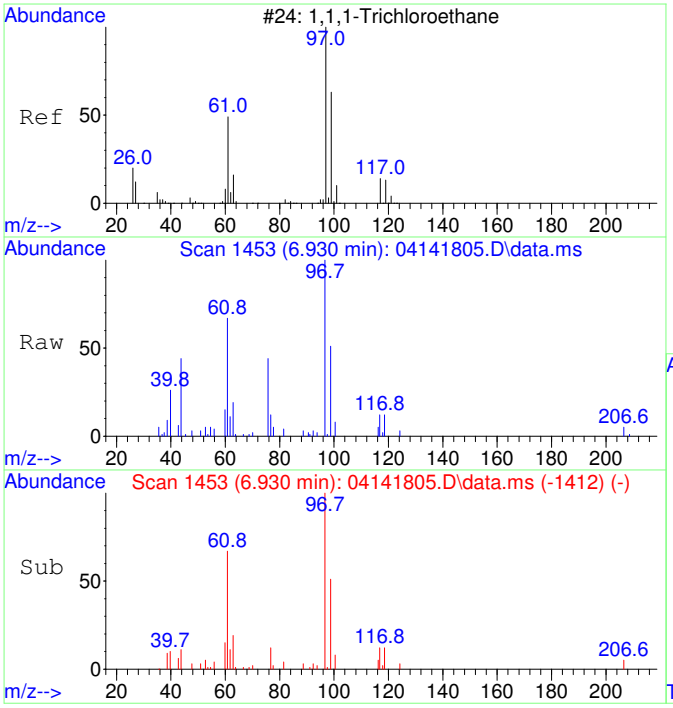


#30
Chloroform SCAN
Concen: 3756.67 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 83 Resp: 14002

Ion	Ratio	Lower	Upper
83	100		
85	77.8	47.8	107.8
47	38.2	8.2	68.2

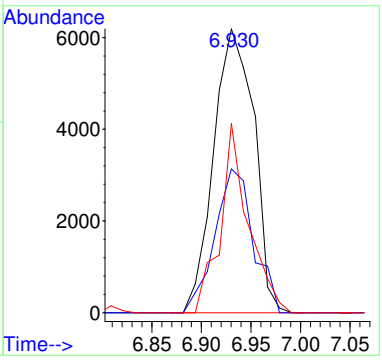


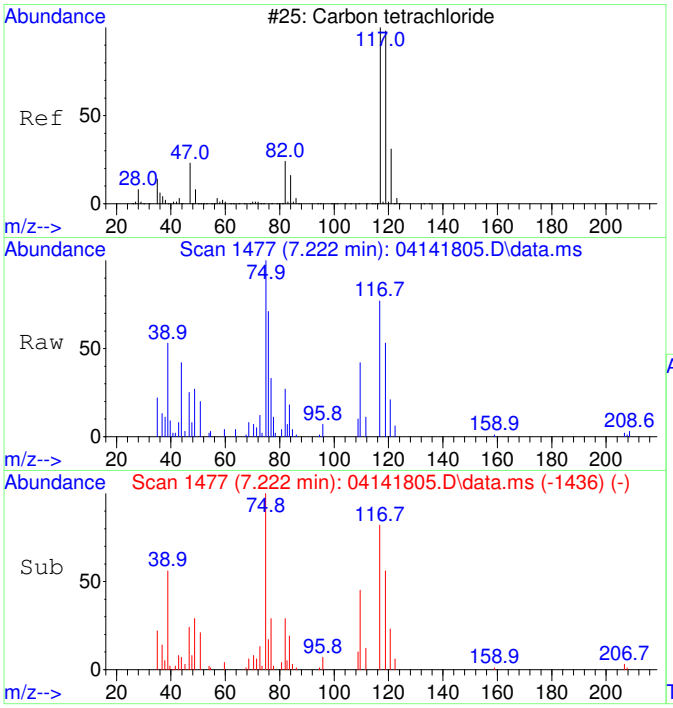


#31
1,1,1-Trichloroethane SCAN
Concen: 4968.70 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 97 Resp: 17571

Ion	Ratio	Lower	Upper
97	100		
99	48.3	18.3	78.3
61	46.3	16.3	76.3

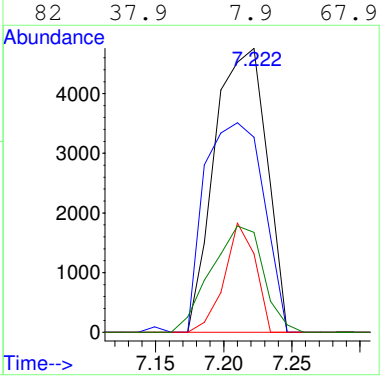


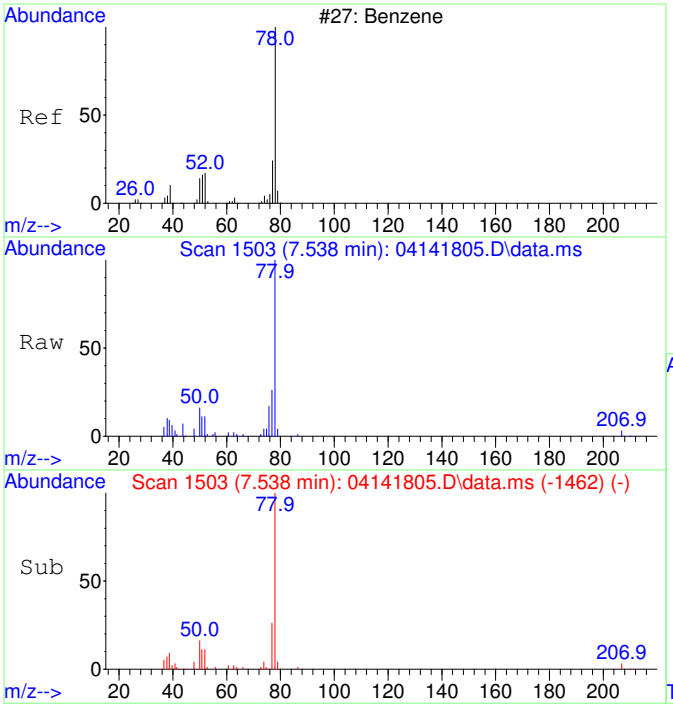


#32
Carbon tetrachloride SCAN
Concen: 4842.05 ug/L
RT: 7.222 min Scan# 1477
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:117 Resp: 12638

Ion	Ratio	Lower	Upper
117	100		
119	84.4	54.4	114.4
121	23.0	0.0	53.0
82	37.9	7.9	67.9

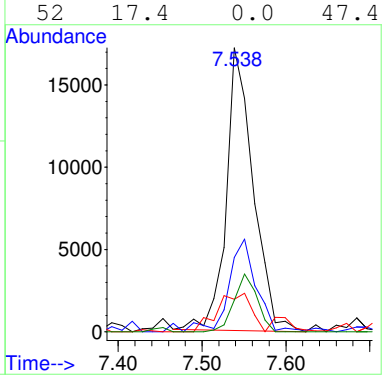


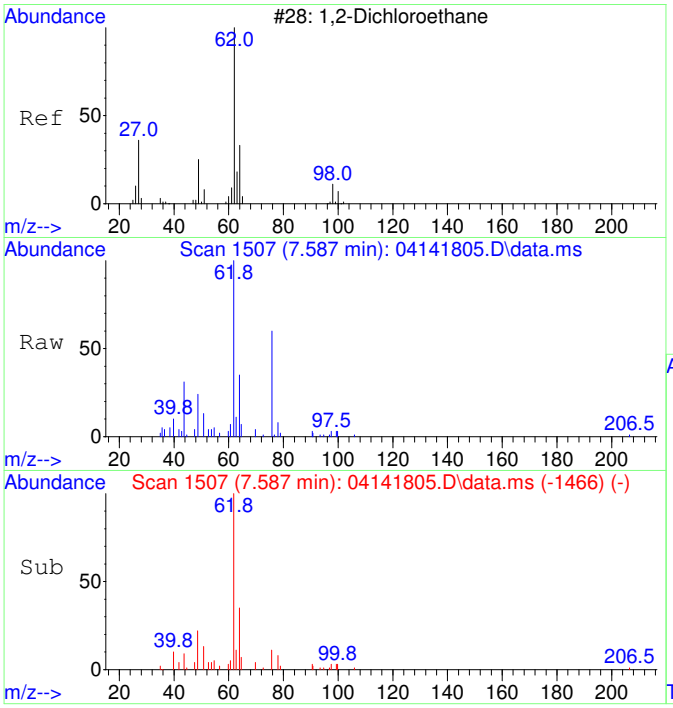


#33
Benzene SCAN
Concen: 3803.64 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 78 Resp: 38309

Ion	Ratio	Lower	Upper
78	100		
77	35.4	5.4	65.4
51	17.2	0.0	47.2
52	17.4	0.0	47.4

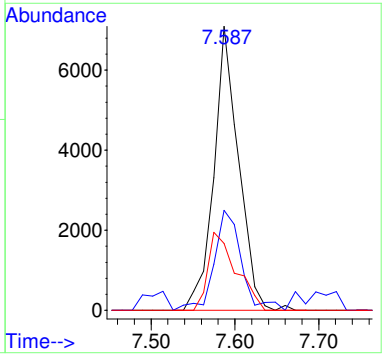


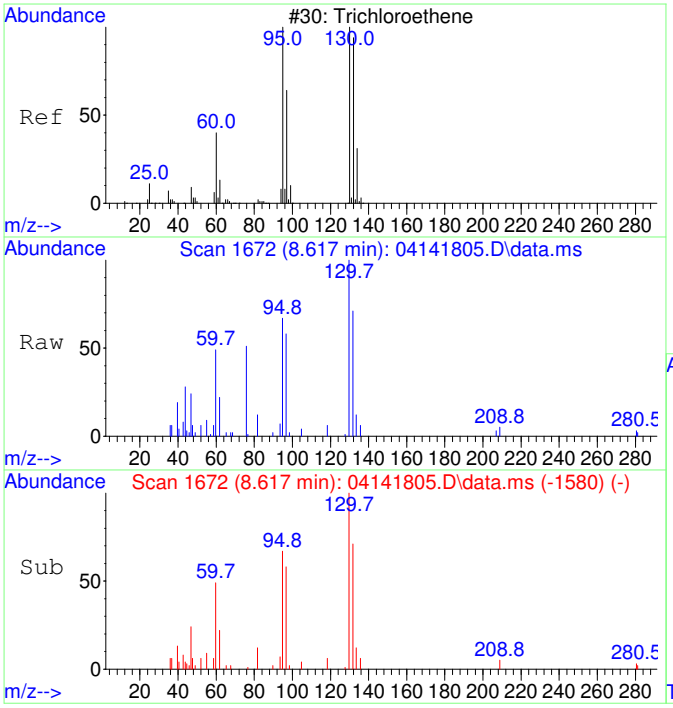


#34
1,2-Dichloroethane SCAN
Concen: 3811.73 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 62 Resp: 14526

Ion	Ratio	Lower	Upper
62	100		
64	34.4	4.4	64.4
49	31.2	1.2	61.2

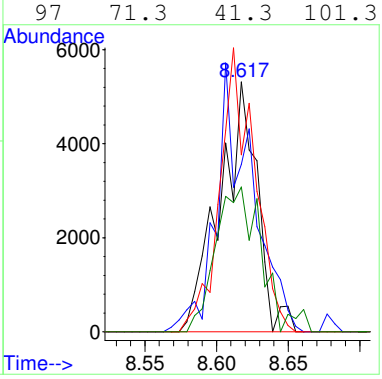


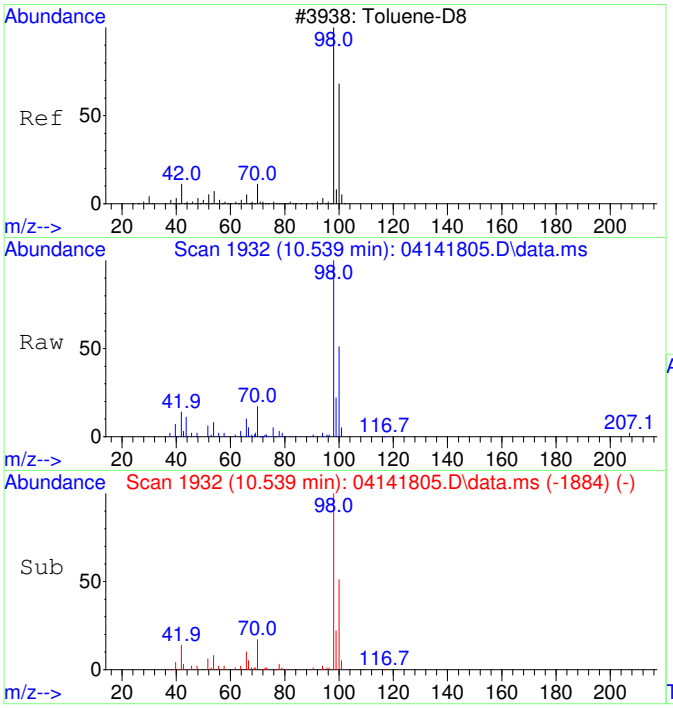


#35
Trichloroethene SCAN
Concen: 4590.70 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:130 Resp: 9625

Ion	Ratio	Lower	Upper
130	100		
95	101.3	71.3	131.3
132	105.1	75.1	135.1
97	71.3	41.3	101.3

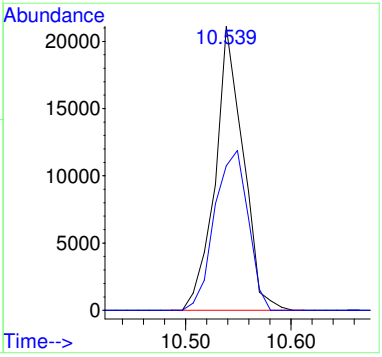


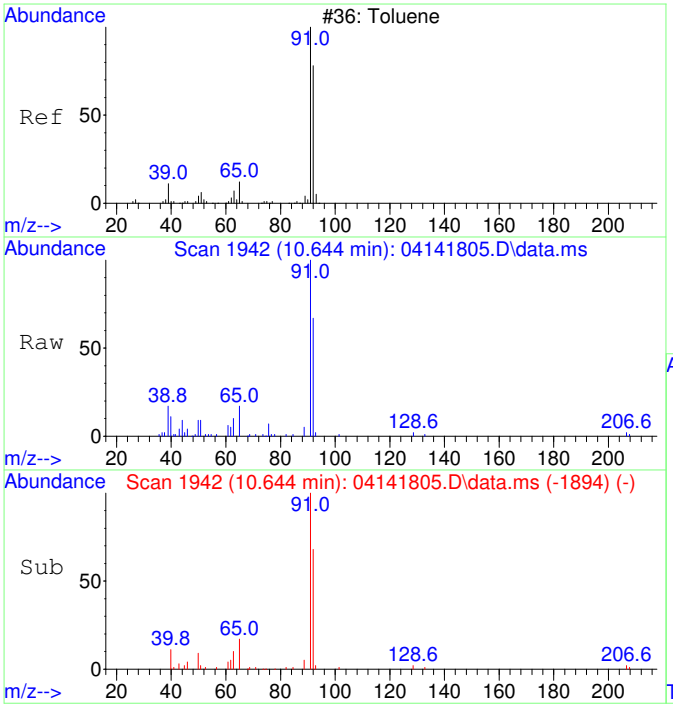


#36
Toluene-d8 SCAN
Concen: 4493.24 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 98 Resp: 39065

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.3	97.3

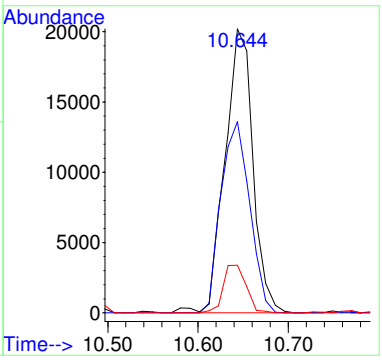


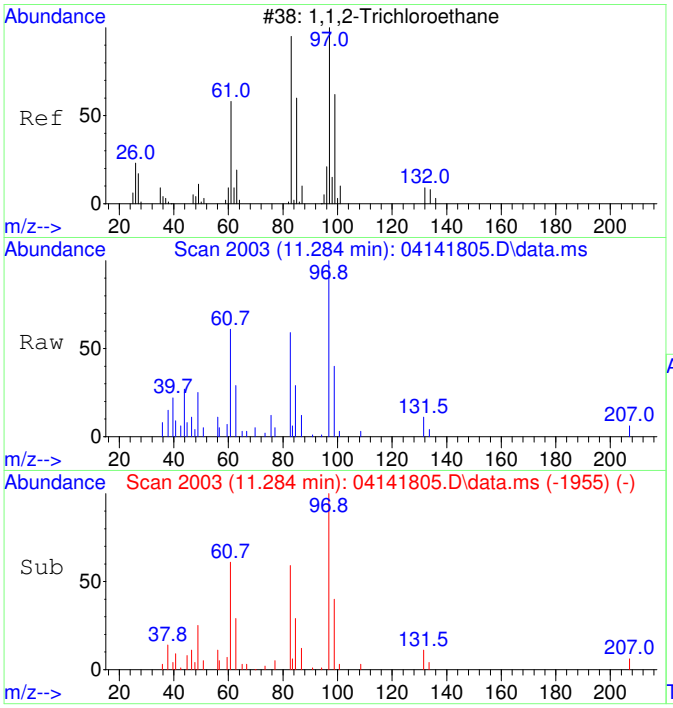


#37
Toluene SCAN
Concen: 3662.10 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 43690

Ion	Ratio	Lower	Upper
91	100		
92	69.1	39.1	99.1
65	13.8	0.0	43.8

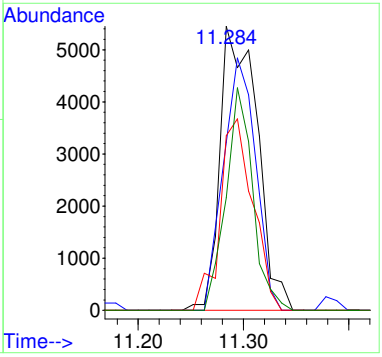


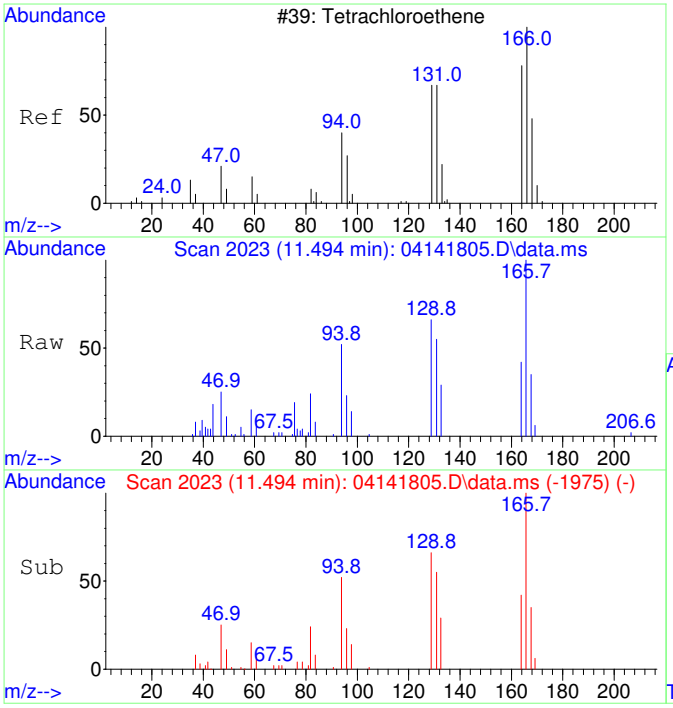


#38
1,1,2-Trichloroethane SCAN
Concen: 4711.03 ug/L
RT: 11.284 min Scan# 2003
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 97 Resp: 13380

Ion	Ratio	Lower	Upper
97	100		
83	77.4	47.4	107.4
61	59.7	29.7	89.7
99	56.5	26.5	86.5

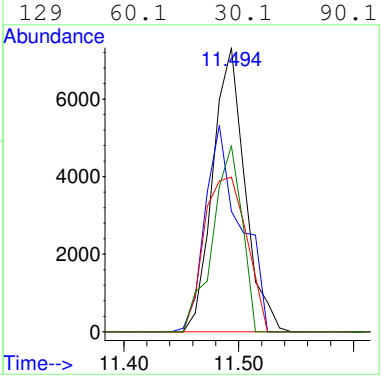


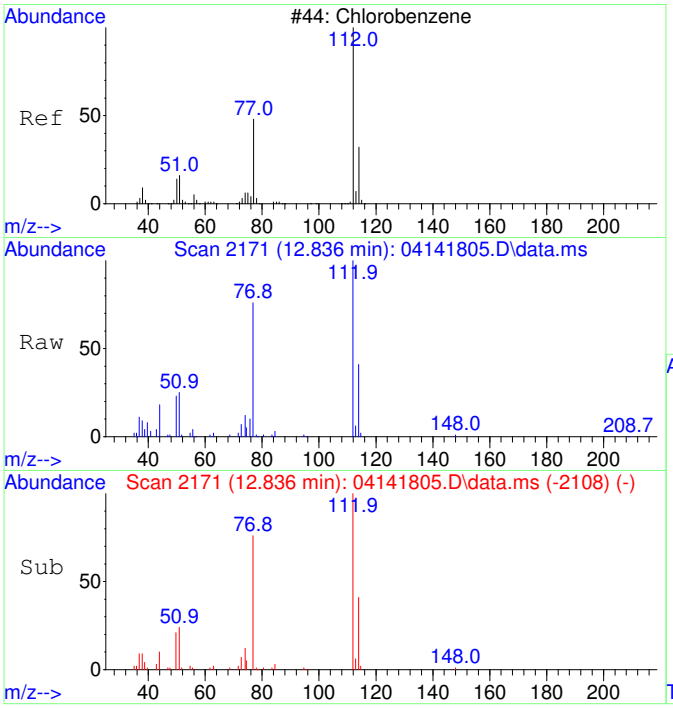


#39
Tetrachloroethene SCAN
Concen: 6066.64 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:166 Resp: 14248

Ion	Ratio	Lower	Upper
166	100		
164	79.8	49.8	109.8
131	72.0	42.0	102.0
129	60.1	30.1	90.1

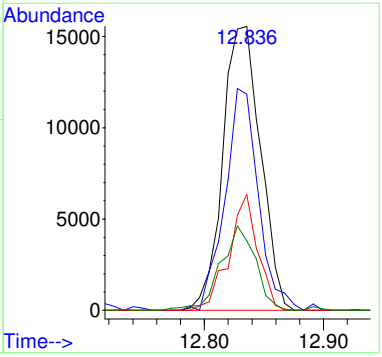


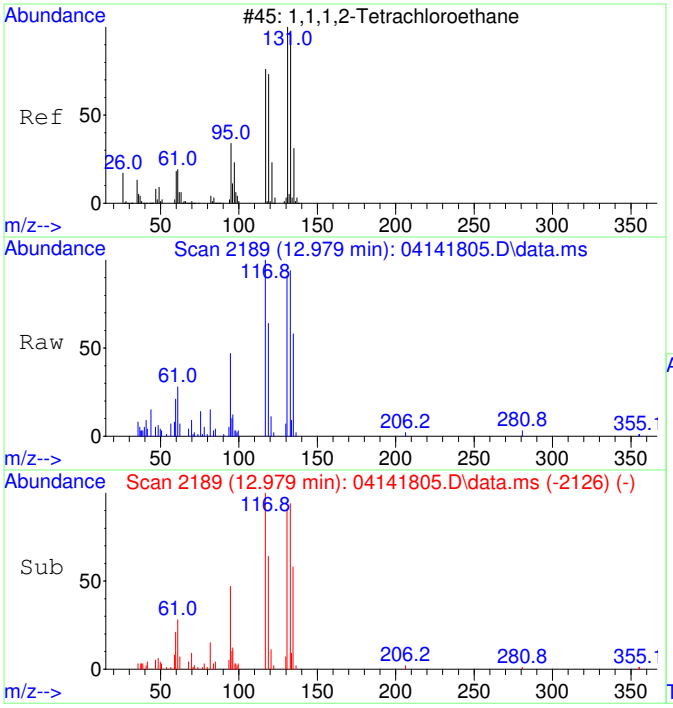


#40
Chlorobenzene SCAN
Concen: 4431.65 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:112 Resp: 34334

Ion	Ratio	Lower	Upper
112	100		
77	69.7	39.7	99.7
114	31.2	1.2	61.2
51	27.1	0.0	57.1

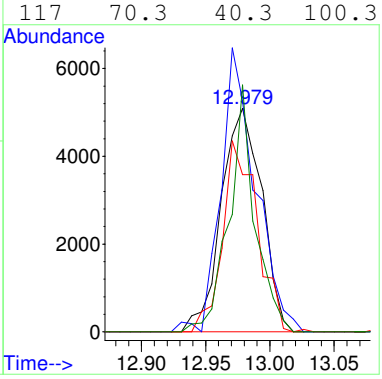


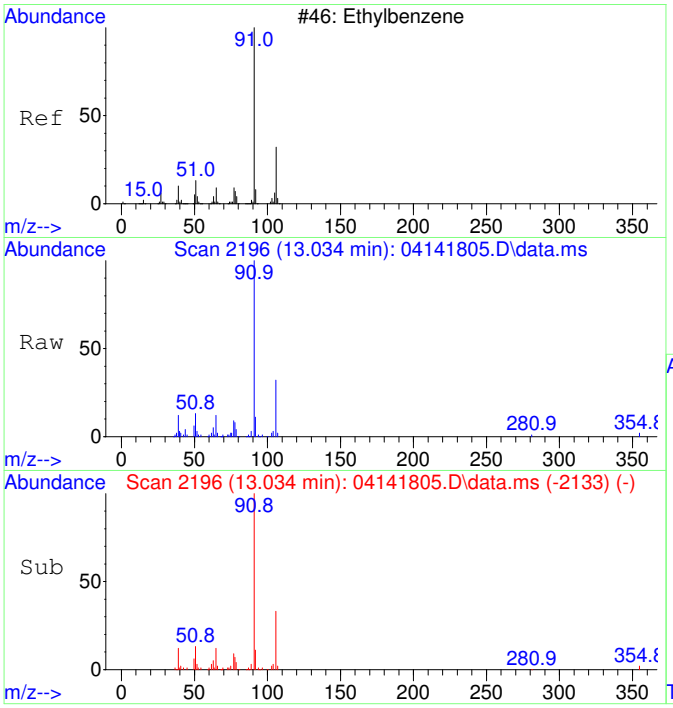


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4291.12 ug/L
RT: 12.979 min Scan# 2189
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:131 Resp: 11162

Ion	Ratio	Lower	Upper
131	100		
133	108.7	78.7	138.7
119	73.0	43.0	103.0
117	70.3	40.3	100.3

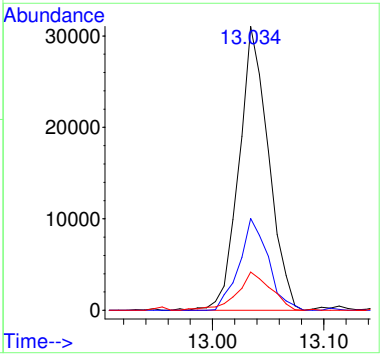


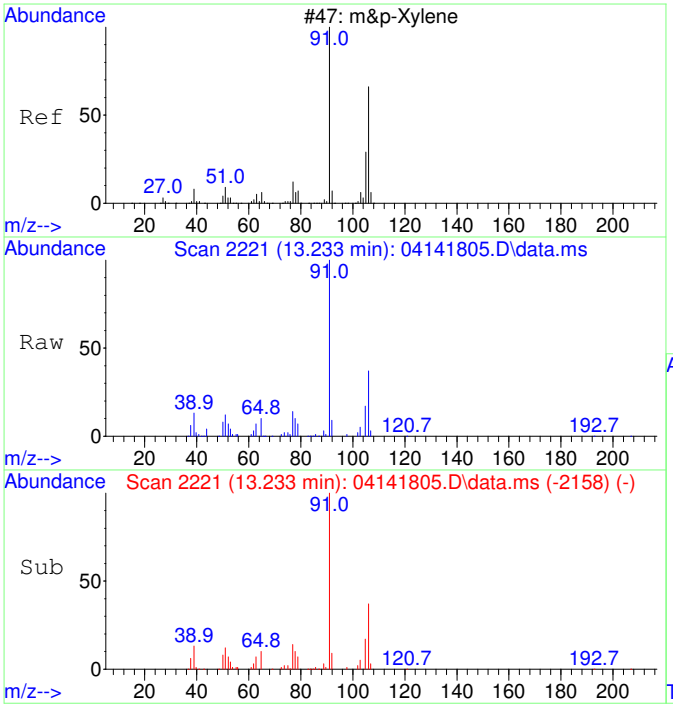


#42
Ethylbenzene SCAN
Concen: 4630.30 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 57269

Ion	Ratio	Lower	Upper
91	100		
106	31.8	1.8	61.8
51	15.4	0.0	45.4

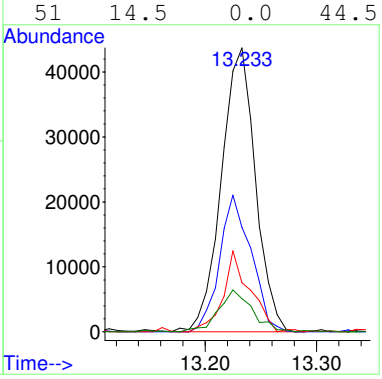


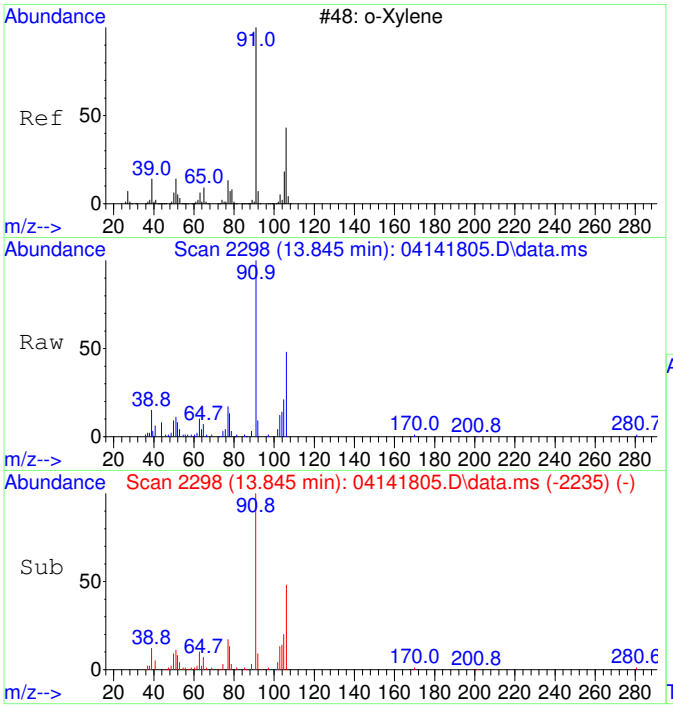


#43
m&p-Xylene SCAN
Concen: 4503.07 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 93199

Ion	Ratio	Lower	Upper
91	100		
106	44.6	14.6	74.6
105	22.8	0.0	52.8
51	14.5	0.0	44.5

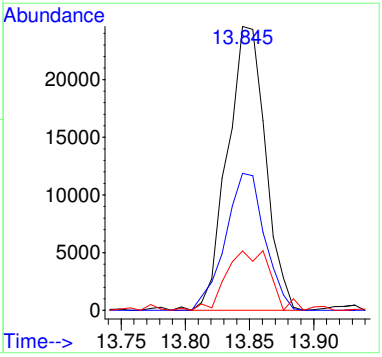


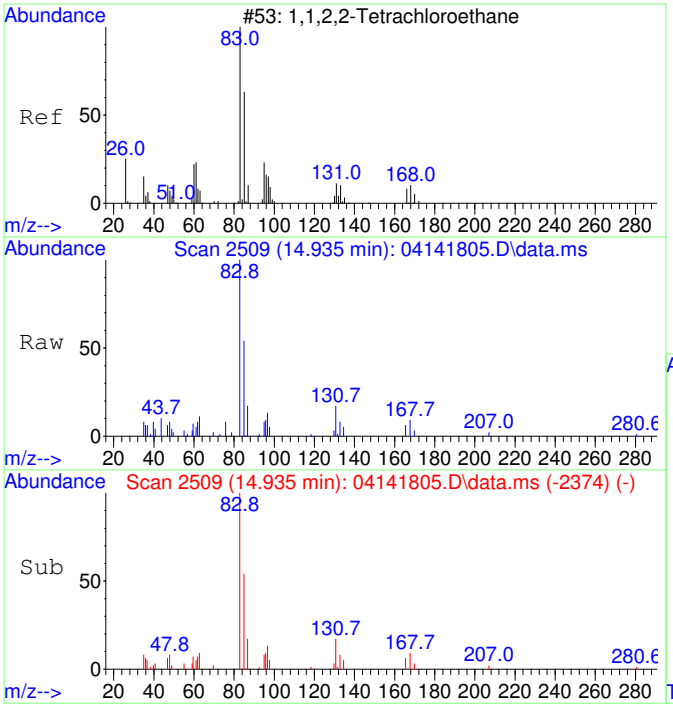


#44
o-Xylene SCAN
Concen: 4337.39 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 91 Resp: 50466

Ion	Ratio	Lower	Upper
91	100		
106	50.2	20.2	80.2
105	24.9	0.0	54.9

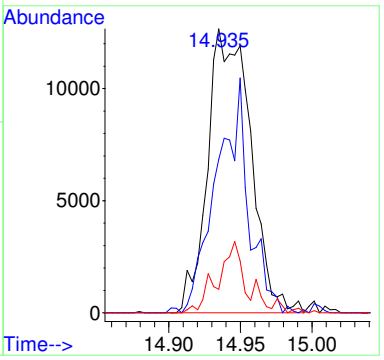


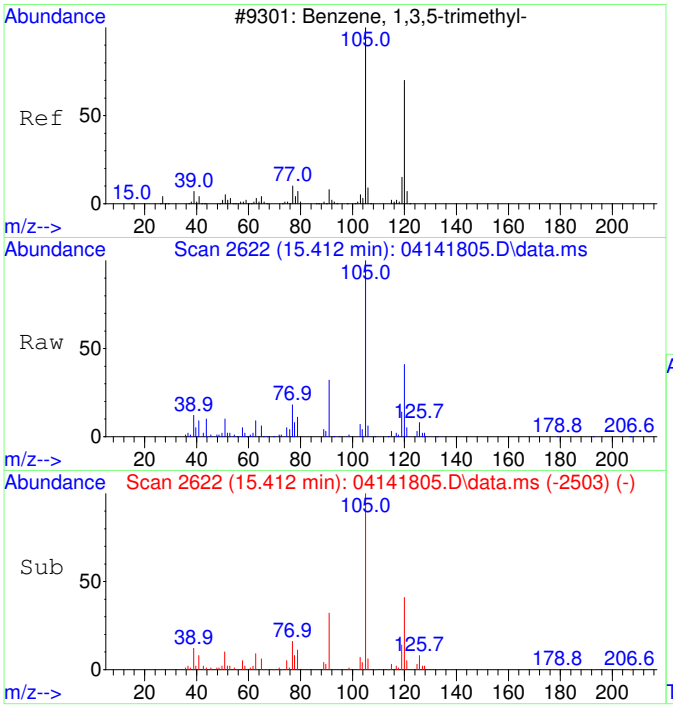


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 3394885.94 ug/L
RT: 14.935 min Scan# 2509
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 83 Resp: 26415

Ion	Ratio	Lower	Upper
83	100		
85	62.4	32.4	92.4
95	11.2	0.0	41.2

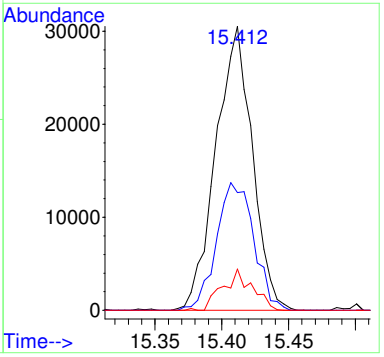


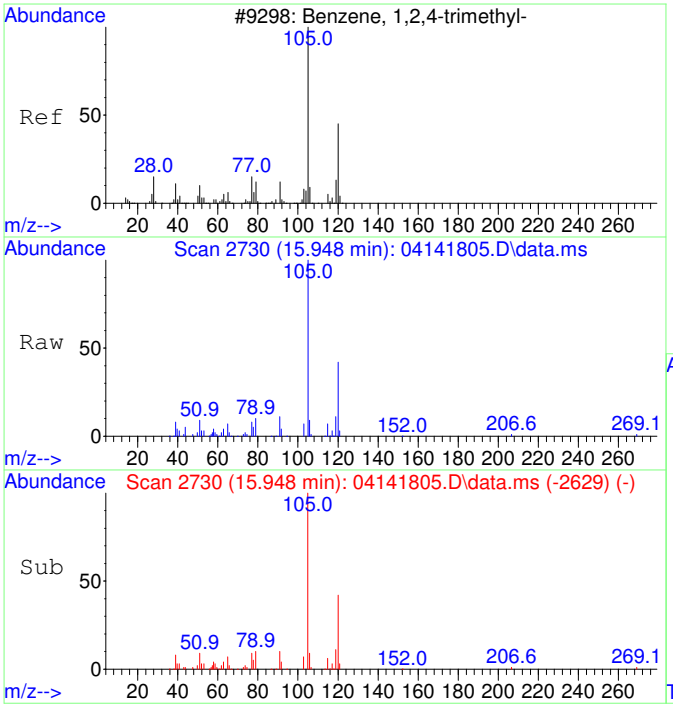


#46
1,3,5-Trimethylbenzene SCAN
Concen: 5824.78 ug/L
RT: 15.412 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:105 Resp: 58005

Ion	Ratio	Lower	Upper
105	100		
120	46.1	16.1	76.1
119	11.8	0.0	41.8

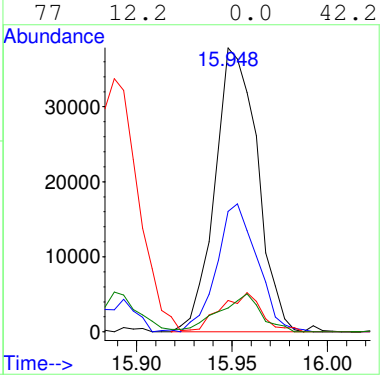


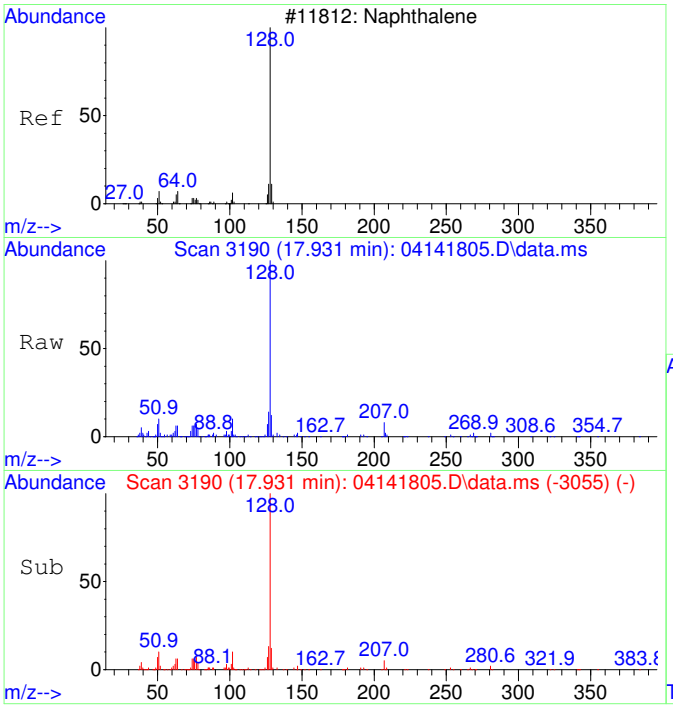


#47
1,2,4-Trimethylbenzene SCAN
Concen: 5767.48 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:105 Resp: 58469

Ion	Ratio	Lower	Upper
105	100		
120	42.8	12.8	72.8
119	12.5	0.0	42.5
77	12.2	0.0	42.2

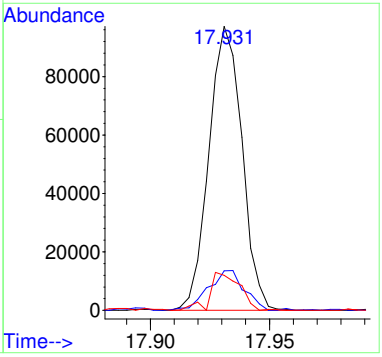


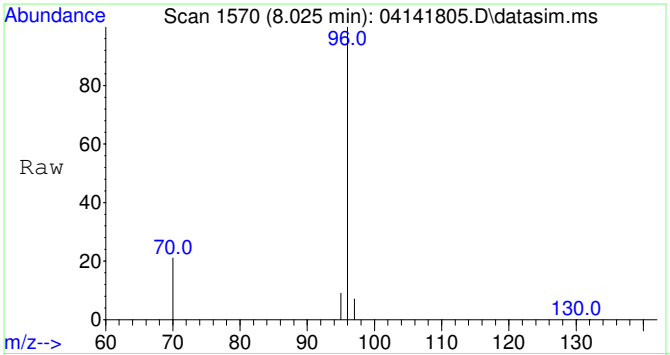


#48
Naphthalene SCAN
Concen: 6689.40 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion:128 Resp: 94206

Ion	Ratio	Lower	Upper
128	100		
127	15.2	0.0	45.2
129	12.0	0.0	42.0

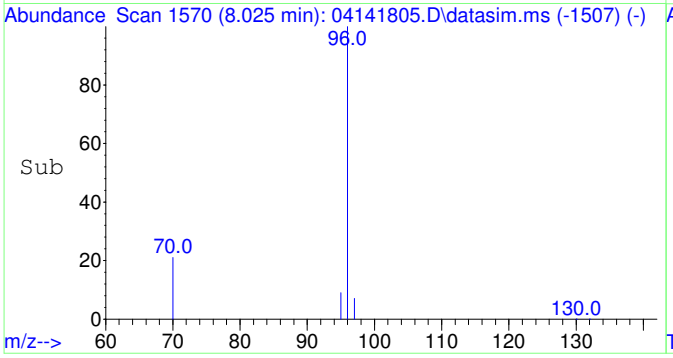


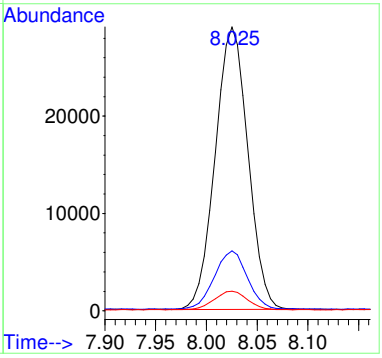


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141805.D
Acq: 14 Apr 2018 12:27

Tgt Ion: 96 Resp: 65072

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.7	0.0	36.7





S18D063-CAL4

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141806.D
Acq On : 14 Apr 2018 12:50
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL4
Misc : 1745076 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 16 09:27:02 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

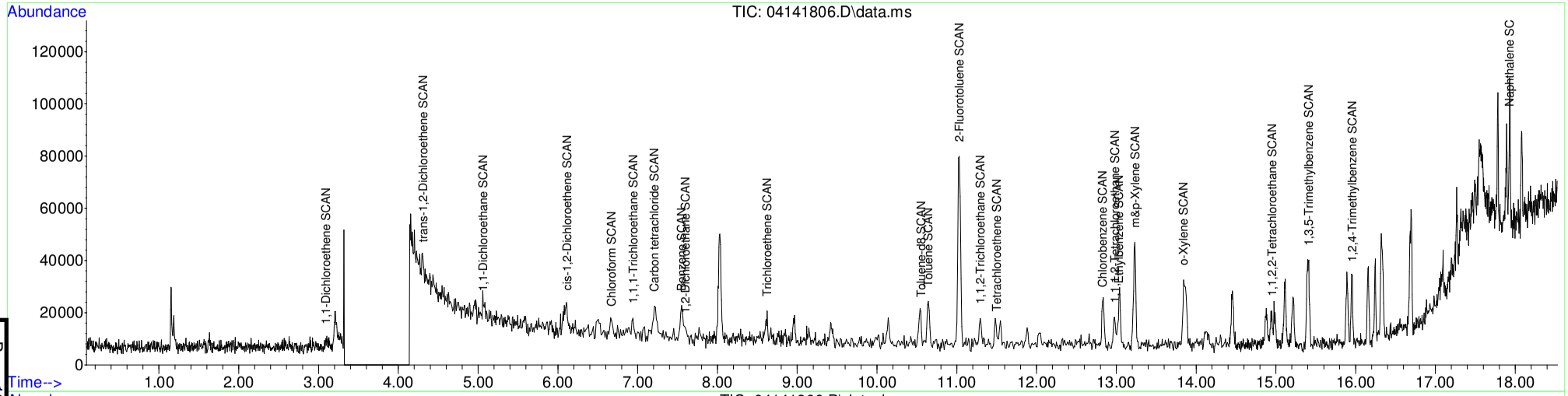
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	121605	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	82290	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	20692	1050.23 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	21.00%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	5631	967.59 ug/L	97
3] trans-1,2-Dichloroethene	4.309	61	5338	897.45 ug/L	100
4] 1,1-Dichloroethane	5.072	63	7043	951.95 ug/L	100
5] cis-1,2-Dichloroethene	6.101	61	6716	916.23 ug/L	100
6] Chloroform	6.676	83	7560	922.43 ug/L	98
7] 1,1,1-Trichloroethane	6.931	97	7518	966.87 ug/L	99
8] Carbon tetrachloride	7.211	117	7024	982.76 ug/L	100
9] Benzene	7.539	78	19596	981.32 ug/L	100
10] 1,2-Dichloroethane	7.588	62	6946	947.36 ug/L	96
11] Trichloroethene	8.618	130	5468	1041.98 ug/L	99
13] Toluene	10.634	91	24977	960.17 ug/L	99
14] 1,1,2-Trichloroethane	11.295	97	5586	955.66 ug/L	99
15] Tetrachloroethene	11.495	166	7172	957.44 ug/L	100
16] Chlorobenzene	12.829	112	18703	1039.60 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.980	131	6142	1093.05 ug/L	98
18] Ethylbenzene	13.035	91	30762	1004.77 ug/L	99
19] m&p-Xylene	13.226	91	48124	2020.76 ug/L	100
20] o-Xylene	13.846	91	24994	991.03 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.943	83	11577	956.91 ug/L	100
22] 1,3,5-Trimethylbenzene	15.409	105	27391	1018.92 ug/L	99
23] 1,2,4-Trimethylbenzene	15.950	105	27979	1056.48 ug/L	100
24] Naphthalene	17.932	128	46780	1124.38 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	57405	3954.03 ug/L	95
26) 1,1-Dichloroethene SCAN	3.092	61	565	147.95 ug/L	87
27) trans-1,2-Dichloroethe...	4.308	61	3155	758.02 ug/L #	46
28) 1,1-Dichloroethane SCAN	5.064	63	5948	1256.03 ug/L	72
29) cis-1,2-Dichloroethene...	6.113	61	3561	760.33 ug/L	88
30) Chloroform SCAN	6.675	83	4209	855.20 ug/L	98
31) 1,1,1-Trichloroethane ...	6.942	97	5118	1096.03 ug/L	83
32) Carbon tetrachloride SCAN	7.210	117	3083	894.54 ug/L #	63
33) Benzene SCAN	7.550	78	11939	897.72 ug/L	80
34) 1,2-Dichloroethane SCAN	7.599	62	4632	920.49 ug/L	83
35) Trichloroethene SCAN	8.622	130	3427	1237.85 ug/L #	70
36) Toluene-d8 SCAN	10.549	98	11415	994.31 ug/L #	16
37) Toluene SCAN	10.643	91	14598	926.65 ug/L	79
38) 1,1,2-Trichloroethane ...	11.294	97	4932	1315.10 ug/L #	75
39) Tetrachloroethene SCAN	11.493	166	2667	859.99 ug/L #	51
40) Chlorobenzene SCAN	12.827	112	10525	1028.82 ug/L	78
41) 1,1,1,2-Tetrachloroeth...	12.978	131	4371	1272.58 ug/L #	58
42) Ethylbenzene SCAN	13.034	91	17712	1084.51 ug/L	94
43) m&p-Xylene SCAN	13.233	91	25608	937.02 ug/L	92
44) o-Xylene SCAN	13.844	91	14547	946.84 ug/L	90
45) 1,1,2,2-Tetrachloroeth...	14.946	83	7311	711584.61 ug/L	95
46) 1,3,5-Trimethylbenzene...	15.413	105	14113	1073.27 ug/L	89
47) 1,2,4-Trimethylbenzene...	15.959	105	13626	1017.90 ug/L	91
48) Naphthalene SCAN	17.931	128	22134	1190.26 ug/L	93

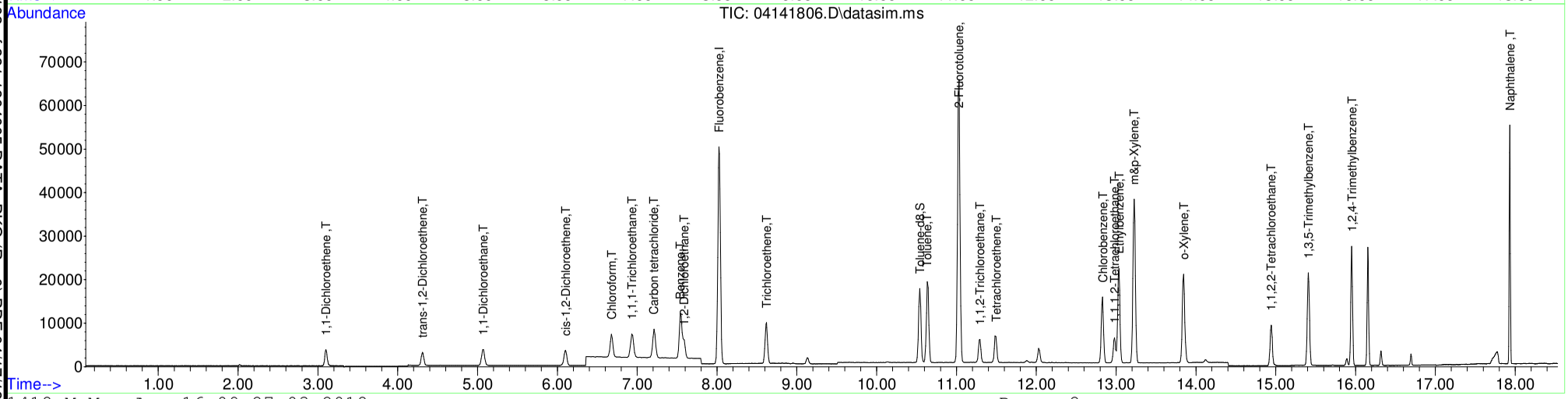
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141806.D
Acq On : 14 Apr 2018 12:50
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL4
Misc : 1745076 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 16 09:27:02 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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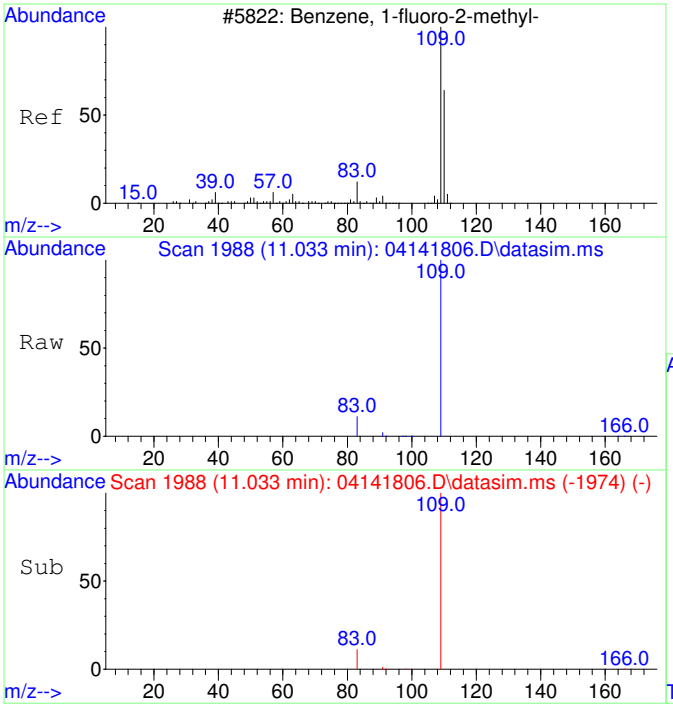
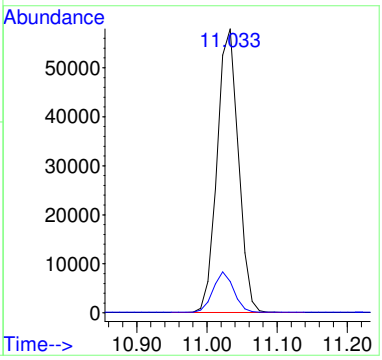
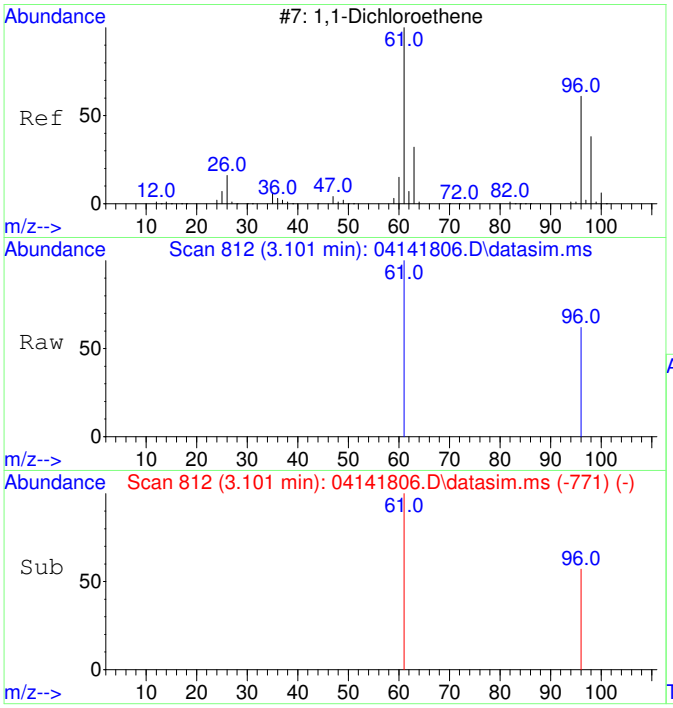


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:109 Resp: 121605

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

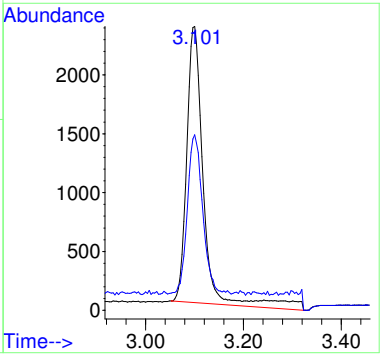




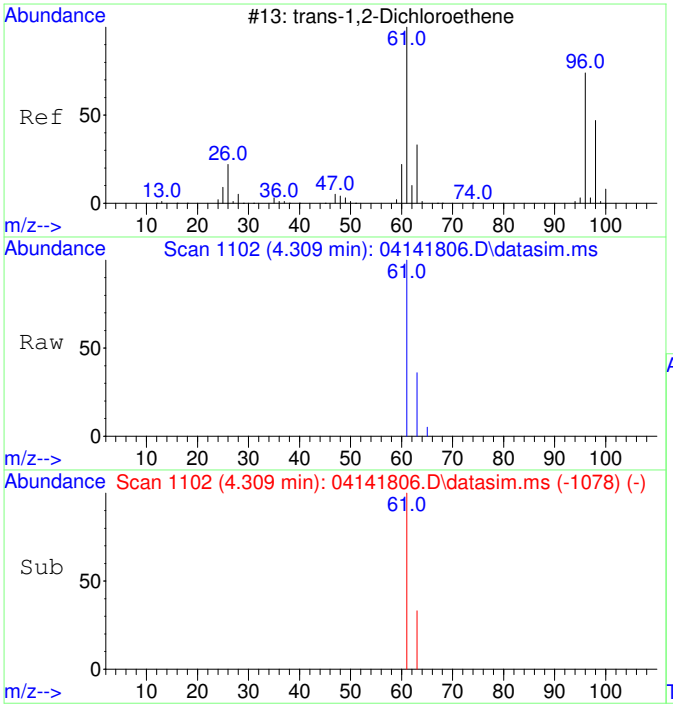
#2
1,1-Dichloroethene
Concen: 967.59 ug/L
RT: 3.101 min Scan# 812
Delta R.T. 0.003 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 5631

Ion	Ratio	Lower	Upper
61	100		
96	58.6	26.1	86.1



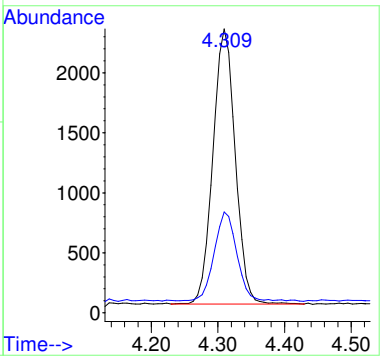
Before MI:
IMPROPER
BASELINE

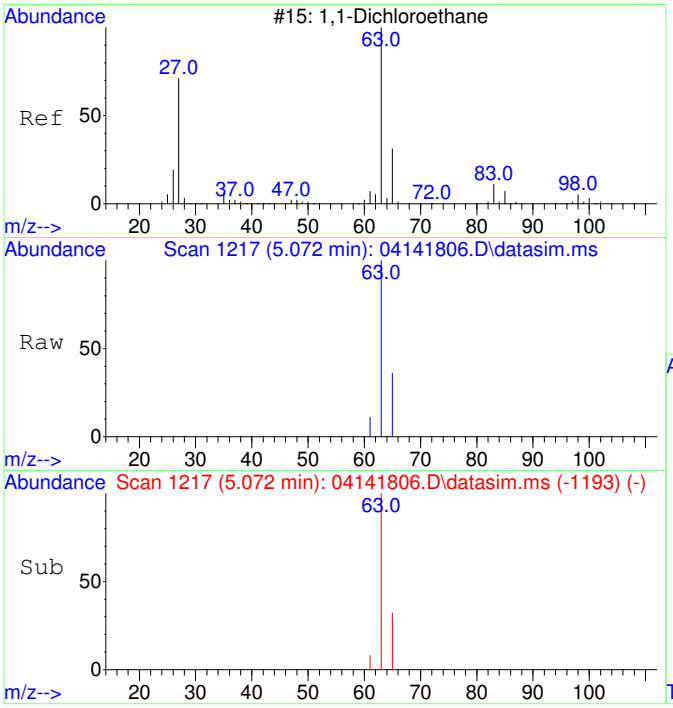


#3
trans-1,2-Dichloroethene
Concen: 897.45 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.006 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 5338

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

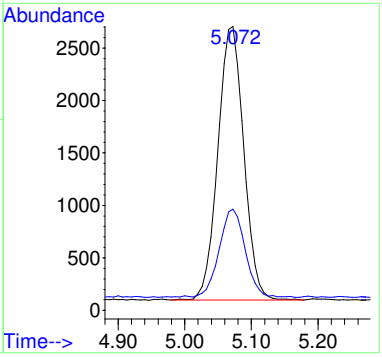


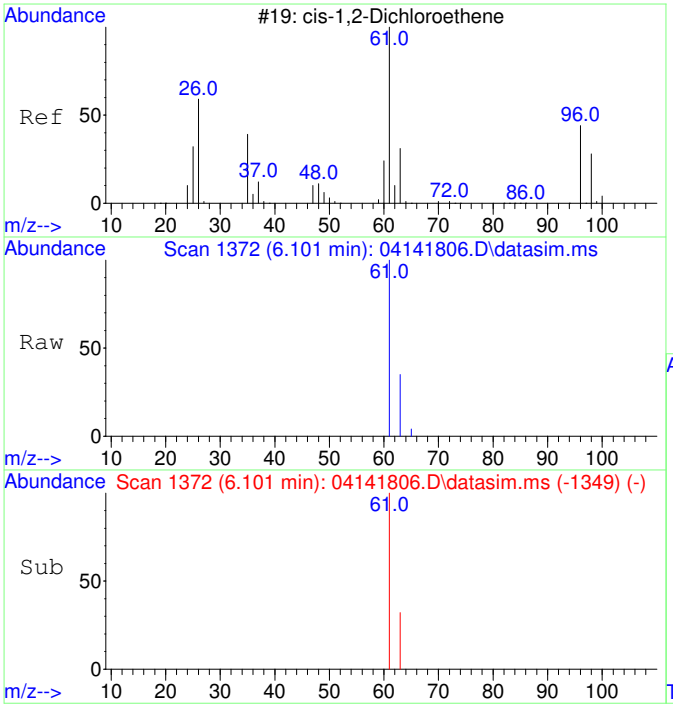


#4
1,1-Dichloroethane
Concen: 951.95 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 63 Resp: 7043

Ion	Ratio	Lower	Upper
63	100		
65	31.7	1.8	61.8

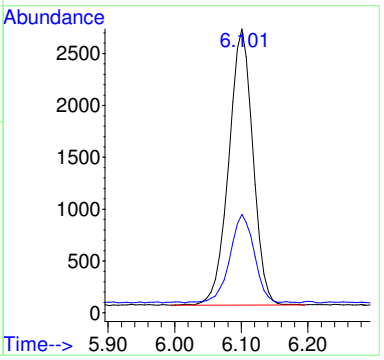


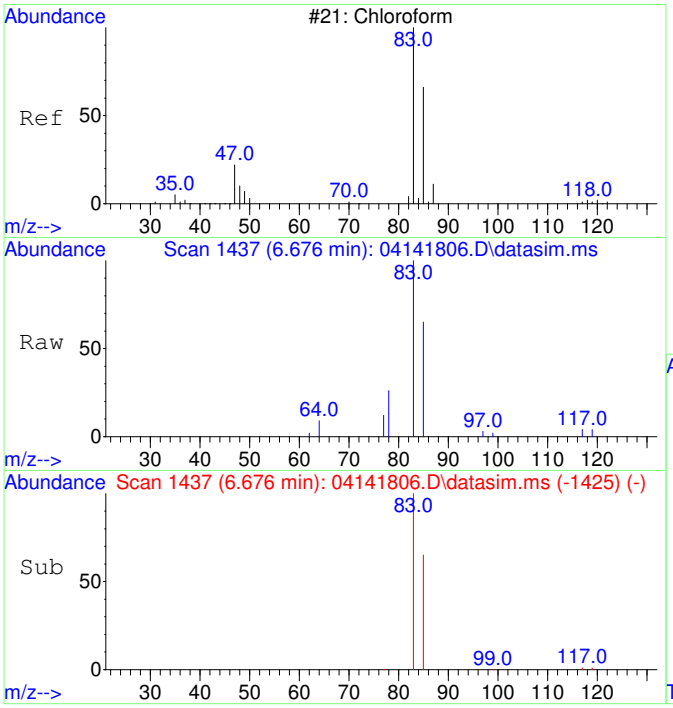


#5
cis-1,2-Dichloroethene
Concen: 916.23 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 6716

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.0	62.0

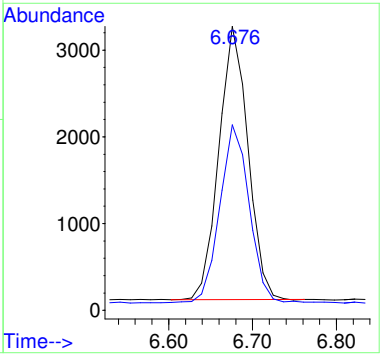


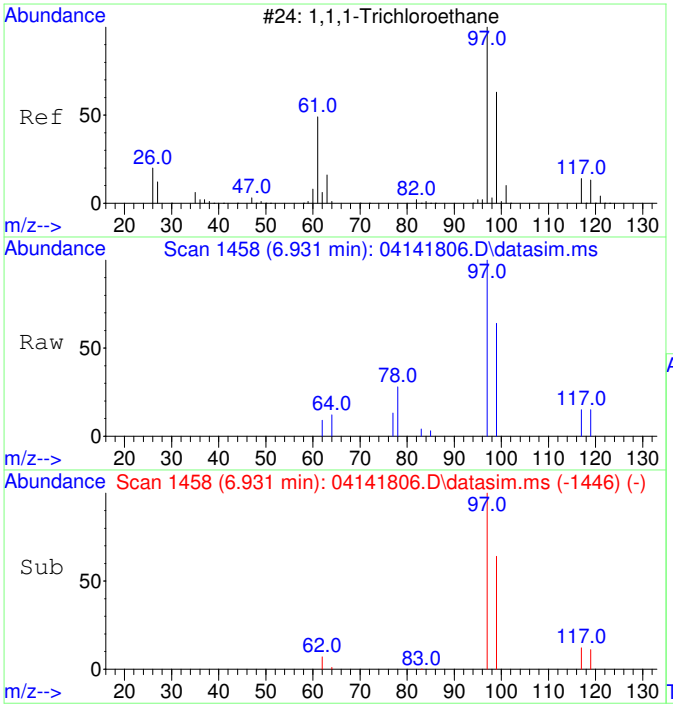


#6
Chloroform
Concen: 922.43 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 83 Resp: 7560

Ion	Ratio	Lower	Upper
83	100		
85	65.5	34.2	94.2

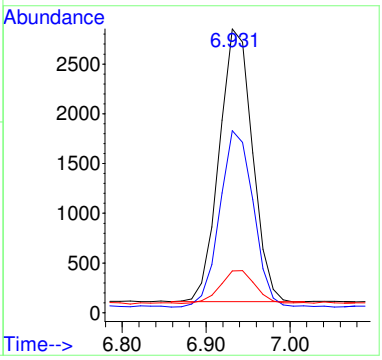


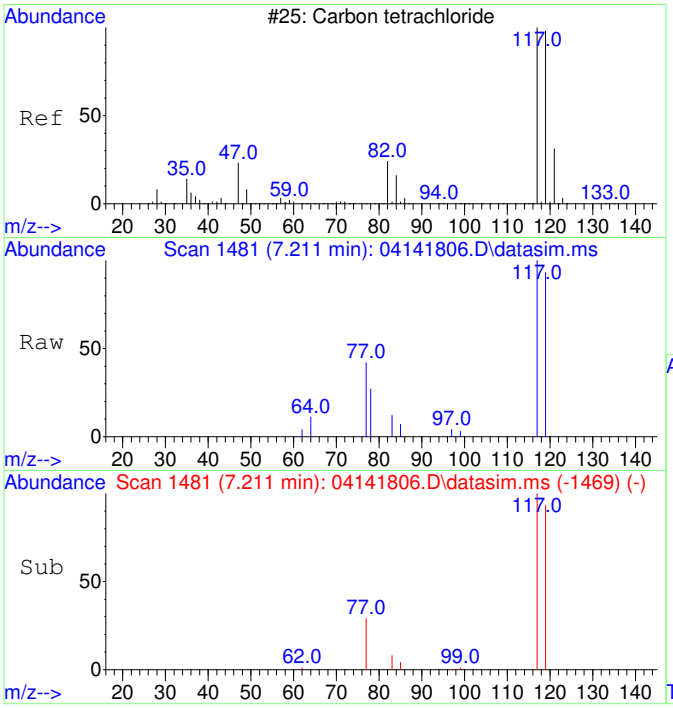


#7
1,1,1-Trichloroethane
Concen: 966.87 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 97 Resp: 7518

Ion	Ratio	Lower	Upper
97	100		
99	65.2	34.5	94.5
117	12.8	0.0	42.6

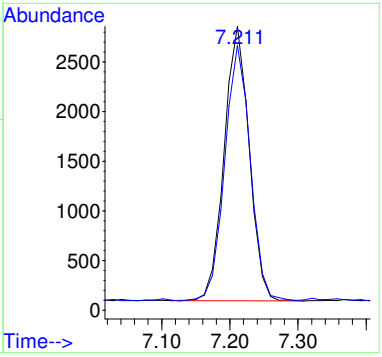


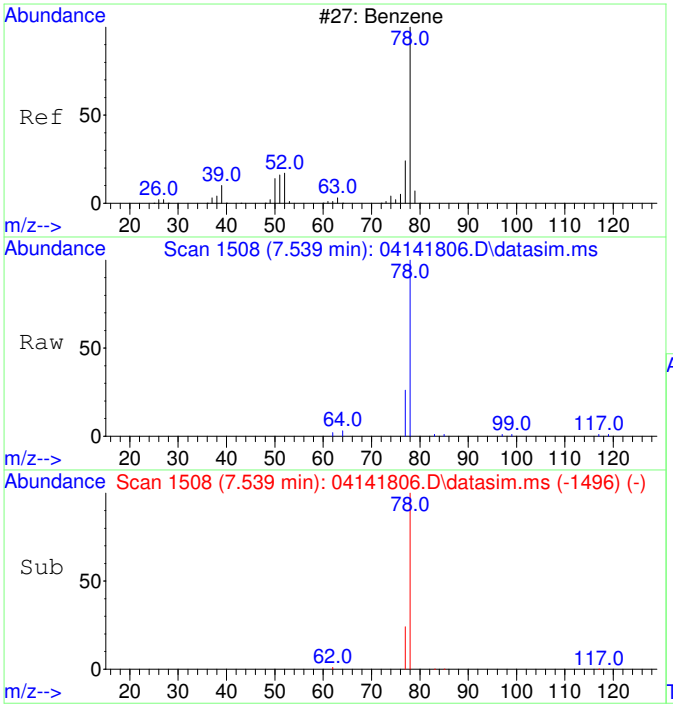


#8
Carbon tetrachloride
Concen: 982.76 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:117 Resp: 7024

Ion	Ratio	Lower	Upper
117	100		
119	94.7	64.5	124.5

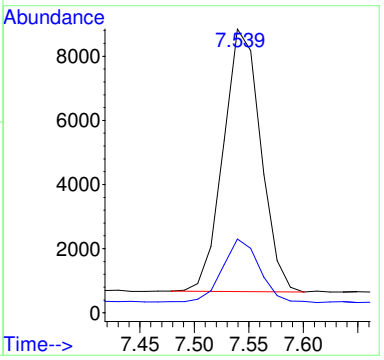


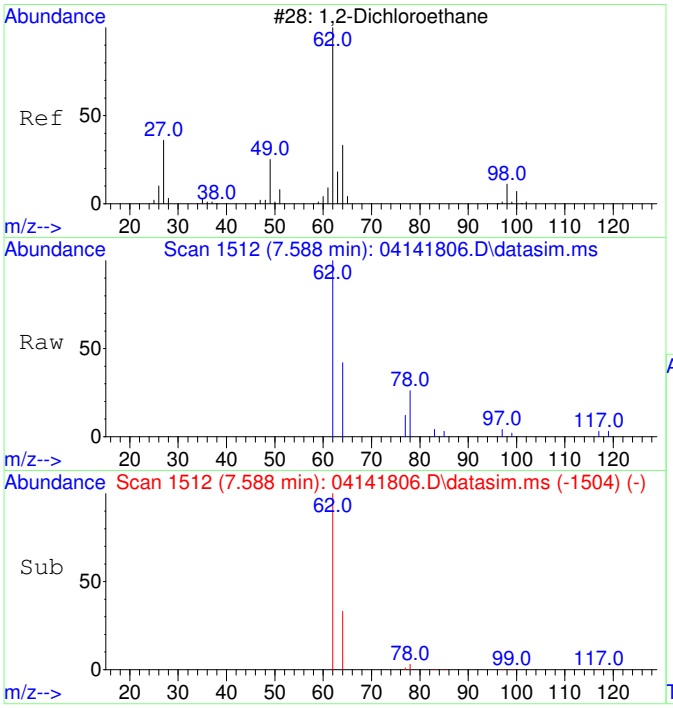


#9
Benzene
Concen: 981.32 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 78 Resp: 19596

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.6

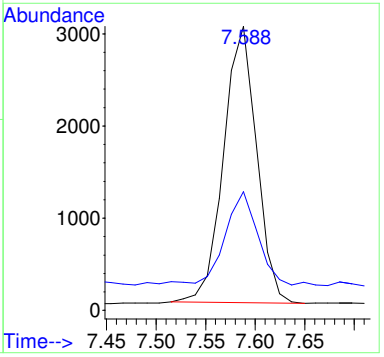


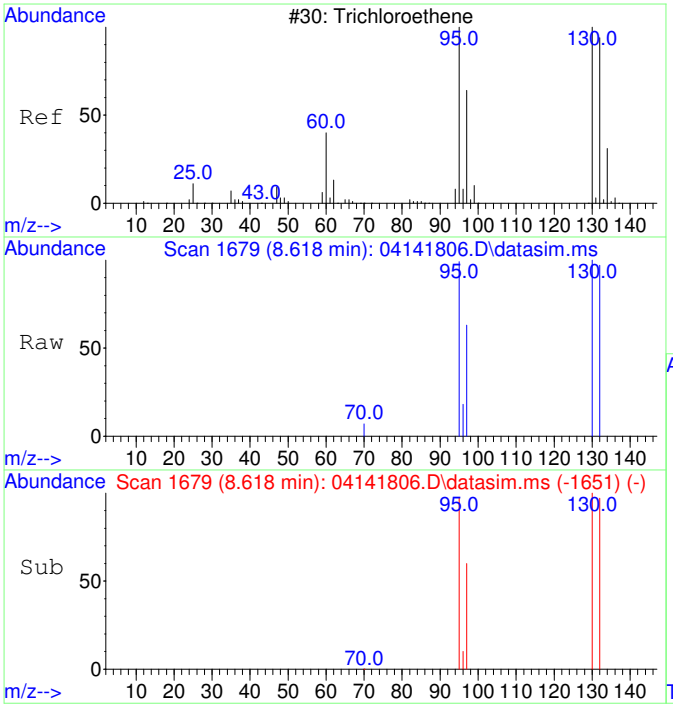


#10
1,2-Dichloroethane
Concen: 947.36 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 62 Resp: 6946

Ion	Ratio	Lower	Upper
62	100		
64	33.8	1.8	61.8

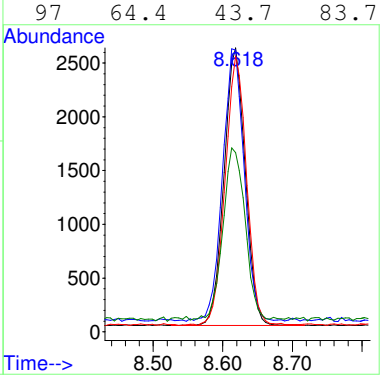


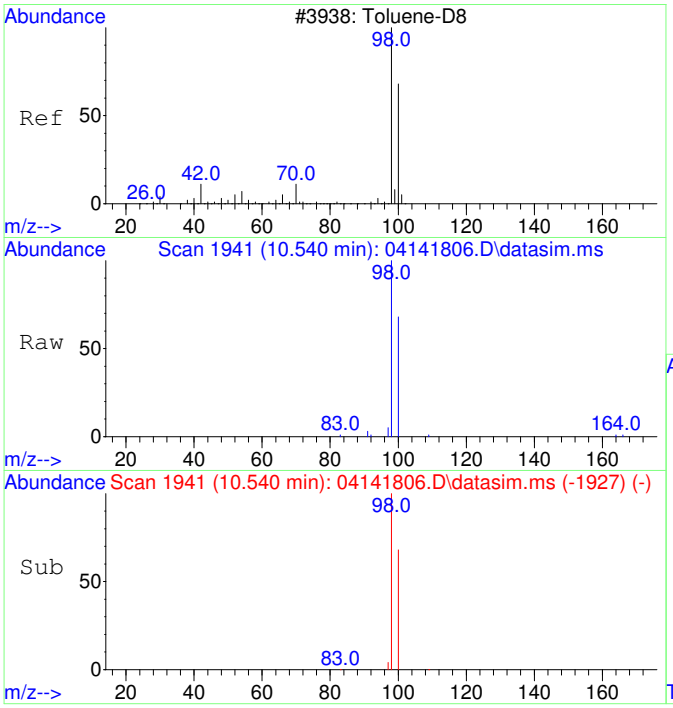


#11
Trichloroethene
Concen: 1041.98 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:130 Resp: 5468

Ion	Ratio	Lower	Upper
130	100		
95	98.6	68.8	128.8
132	97.4	78.6	118.6
97	64.4	43.7	83.7

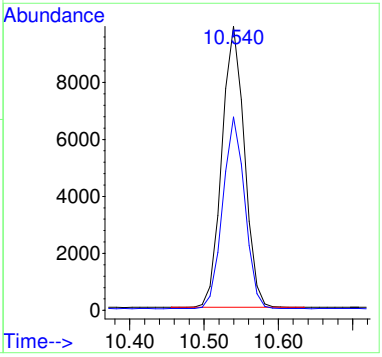


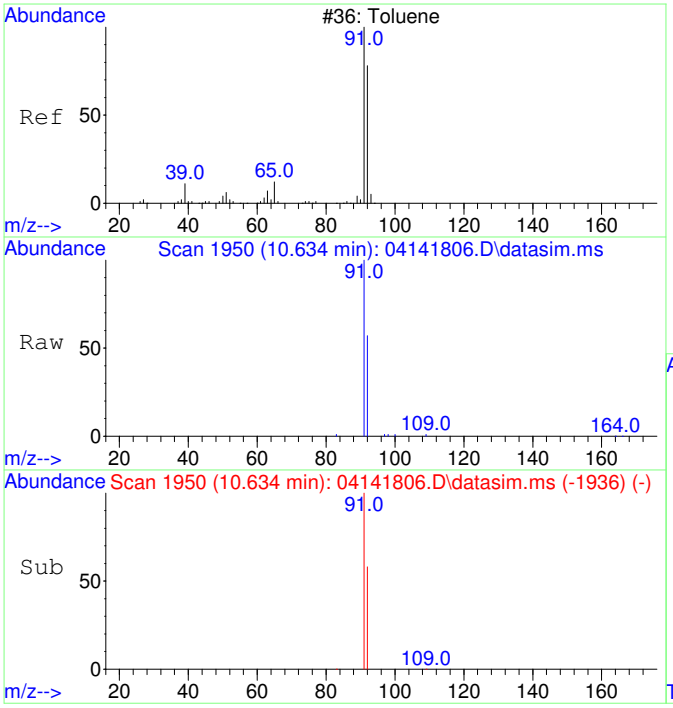


#12
Toluene-d8
Concen: 1050.23 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 98 Resp: 20692

Ion	Ratio	Lower	Upper
98	100		
100	66.9	36.9	96.9

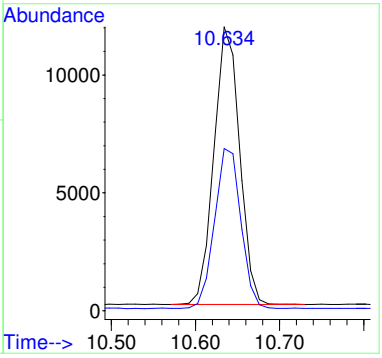


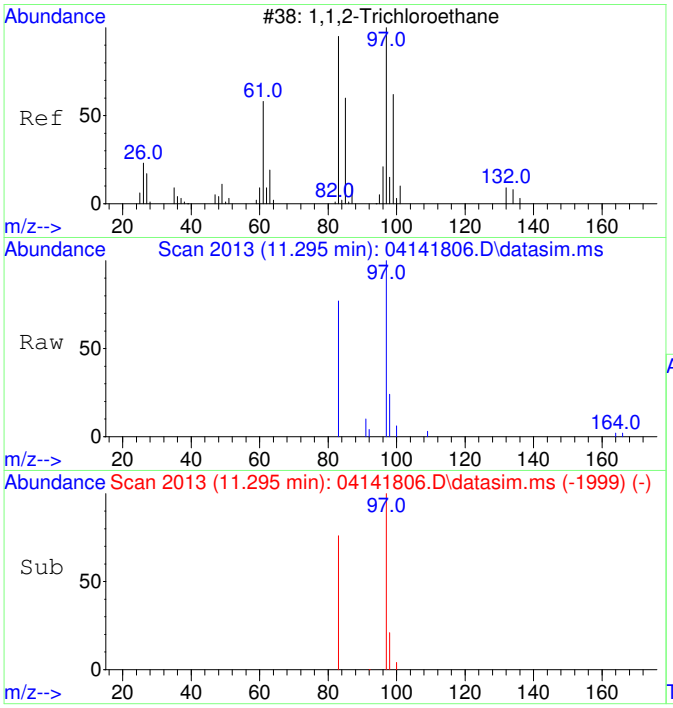


#13
Toluene
Concen: 960.17 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 24977

Ion	Ratio	Lower	Upper
91	100		
92	59.3	28.8	88.8

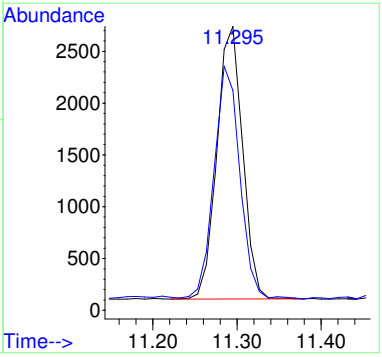


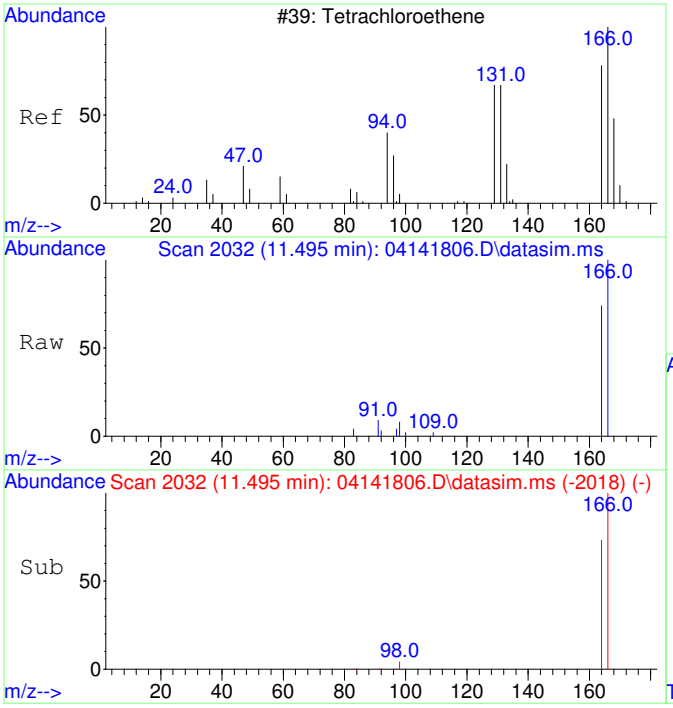


#14
1,1,2-Trichloroethane
Concen: 955.66 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 97 Resp: 5586

Ion	Ratio	Lower	Upper
97	100		
83	85.4	54.3	114.3

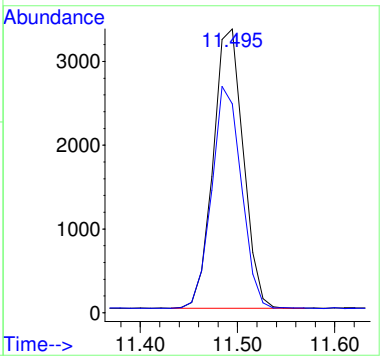


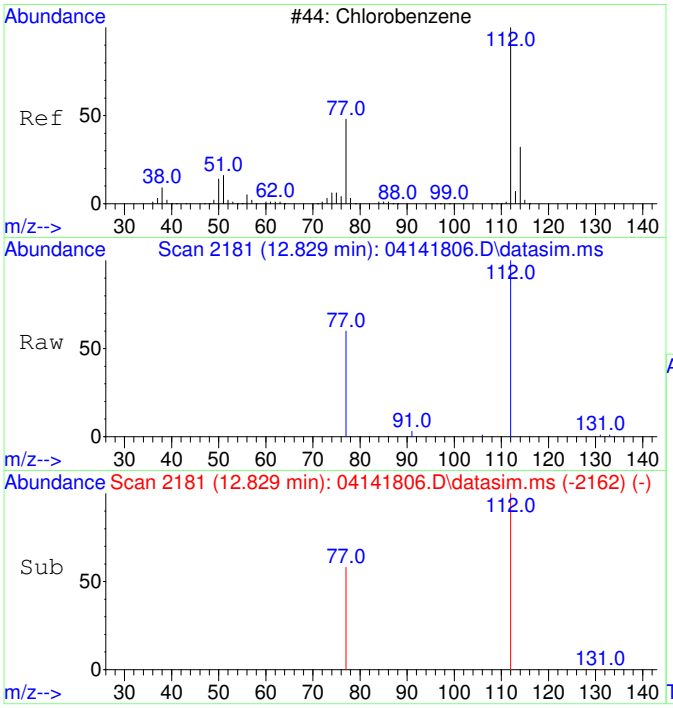


#15
Tetrachloroethene
Concen: 957.44 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:166 Resp: 7172

Ion	Ratio	Lower	Upper
166	100		
164	78.3	48.0	108.0

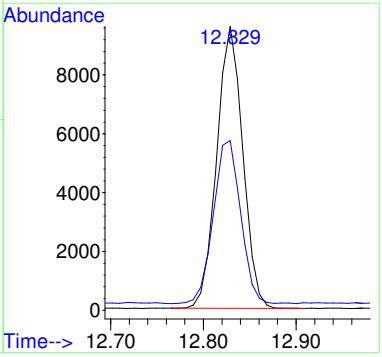


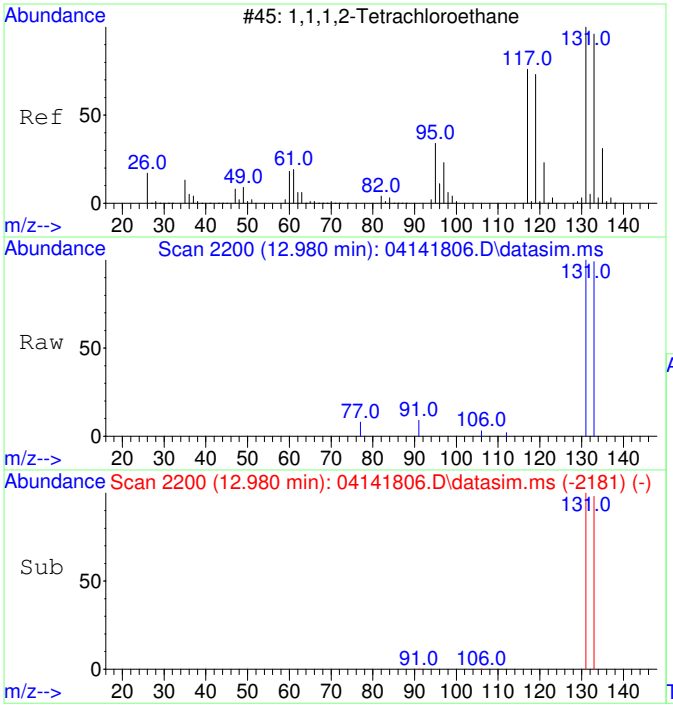


#16
Chlorobenzene
Concen: 1039.60 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:112 Resp: 18703

Ion	Ratio	Lower	Upper
112	100		
77	60.4	29.4	89.4

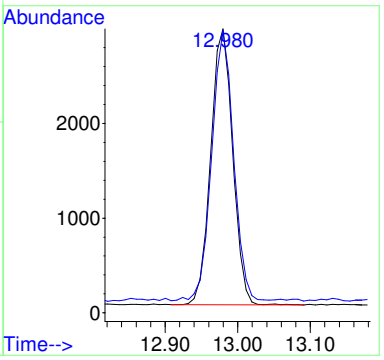


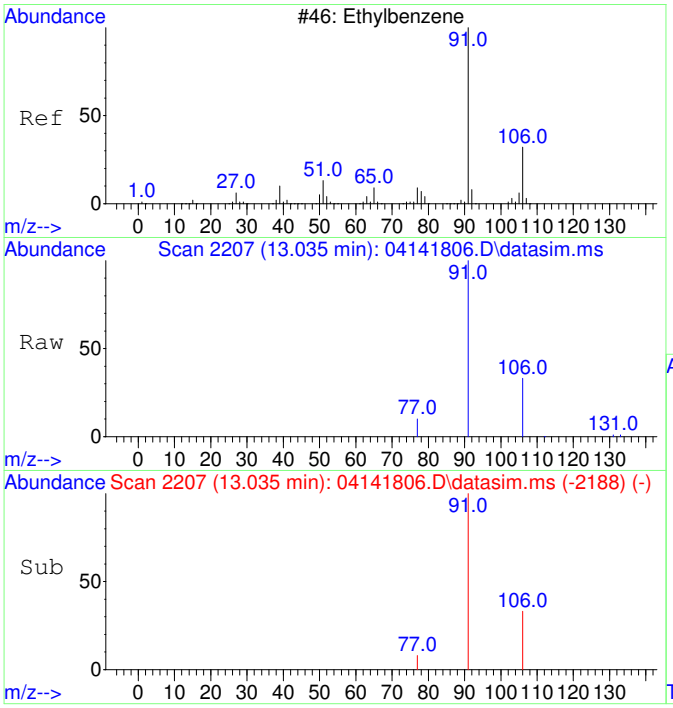


#17
1,1,1,2-Tetrachloroethane
Concen: 1093.05 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:131 Resp: 6142

Ion	Ratio	Lower	Upper
131	100		
133	97.0	65.1	125.1

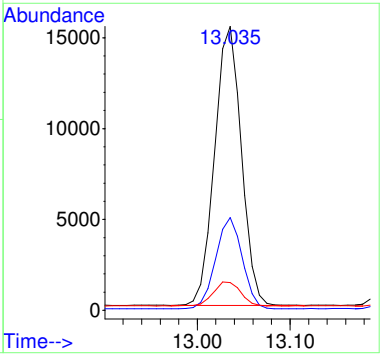


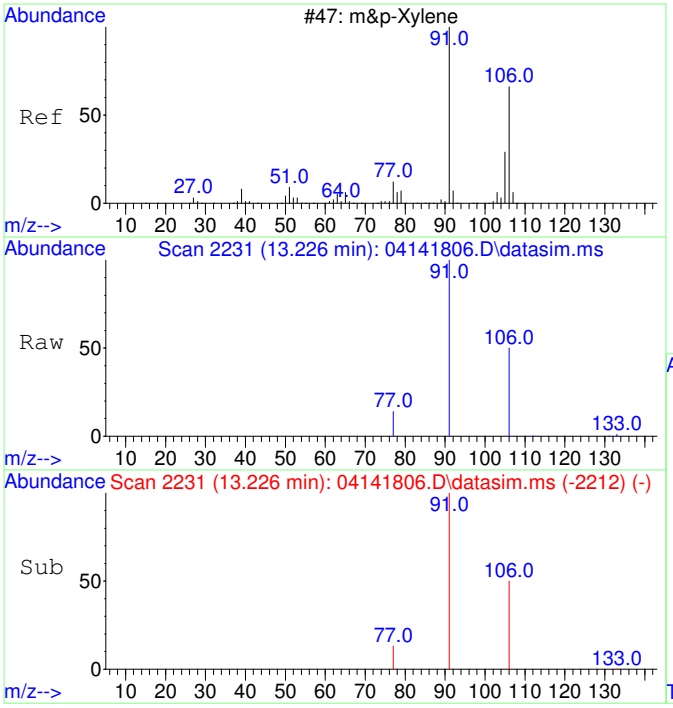


#18
Ethylbenzene
Concen: 1004.77 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 30762

Ion	Ratio	Lower	Upper
91	100		
106	32.5	1.8	61.8
77	8.9	0.0	38.7

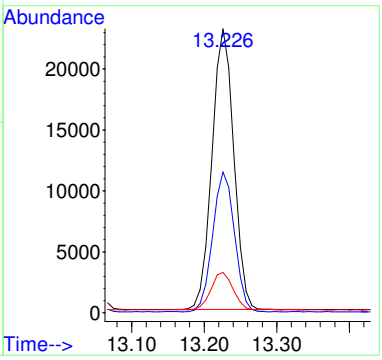


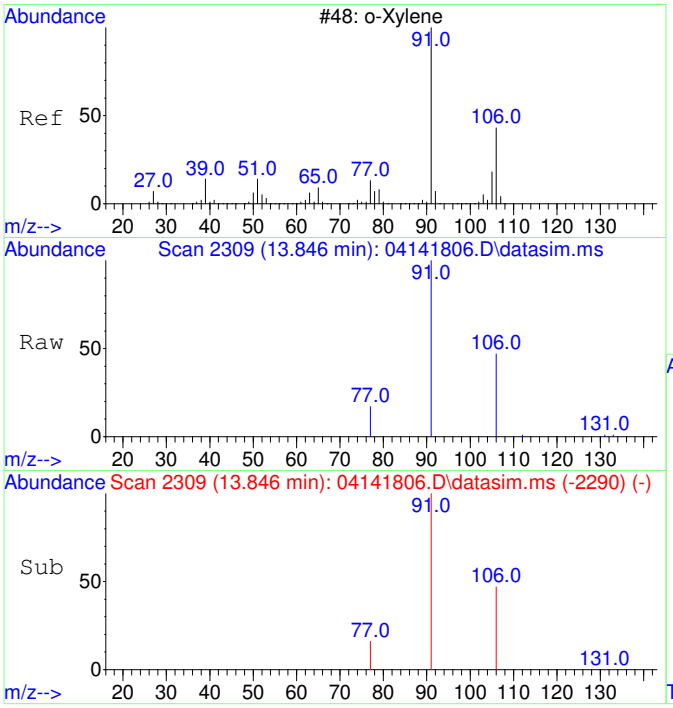


#19
m&p-Xylene
Concen: 2020.76 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 48124

Ion	Ratio	Lower	Upper
91	100		
106	49.8	20.0	80.0
77	13.4	0.0	43.4

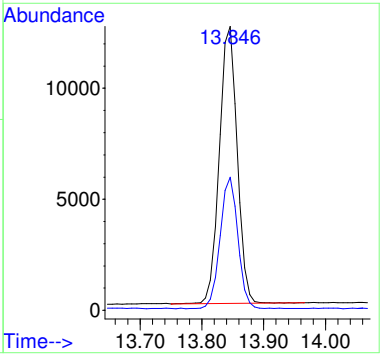


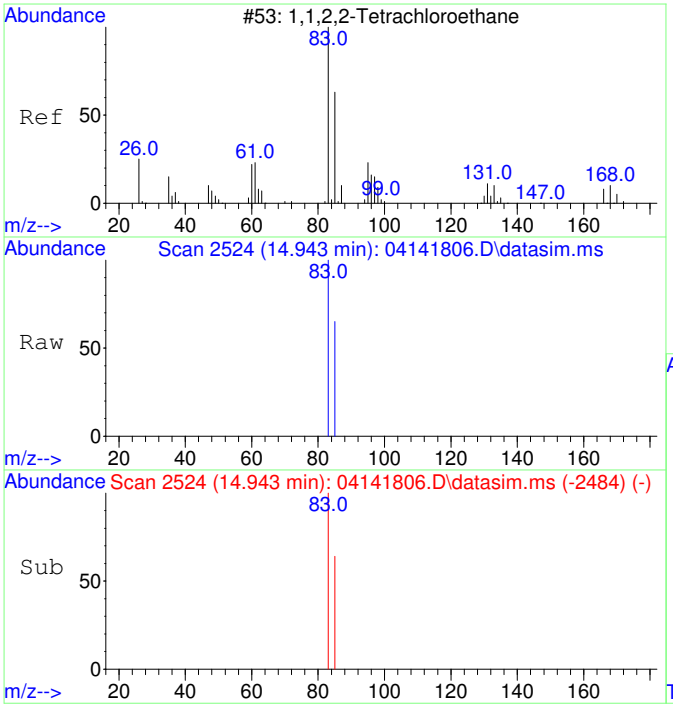


#20
o-Xylene
Concen: 991.03 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 24994

Ion	Ratio	Lower	Upper
91	100		
106	47.1	16.9	76.9

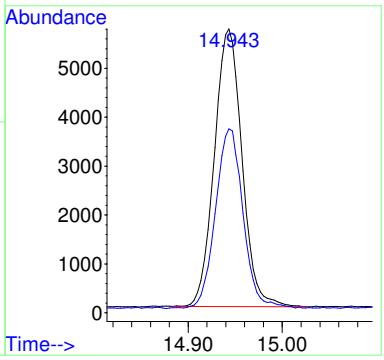


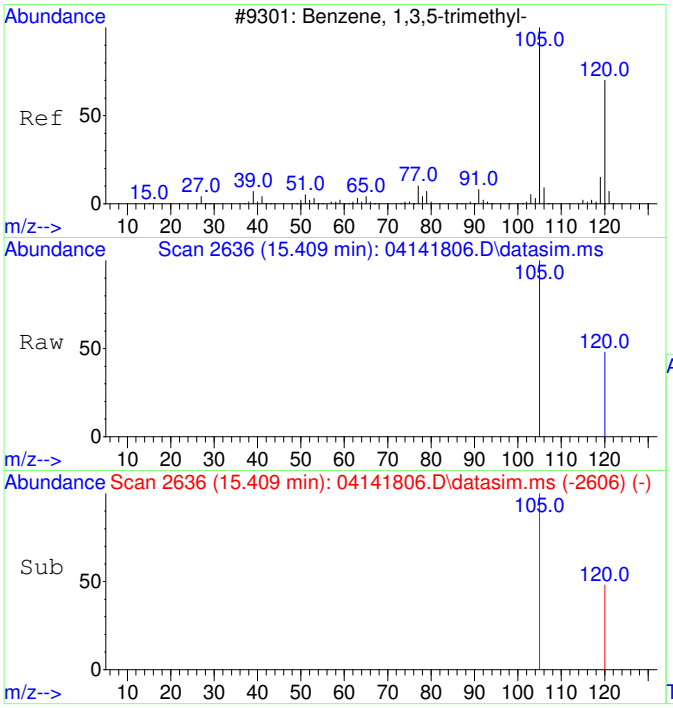


#21
1,1,2,2-Tetrachloroethane
Concen: 956.91 ug/L
RT: 14.943 min Scan# 2524
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 83 Resp: 11577

Ion	Ratio	Lower	Upper
83	100		
85	64.0	34.3	94.3

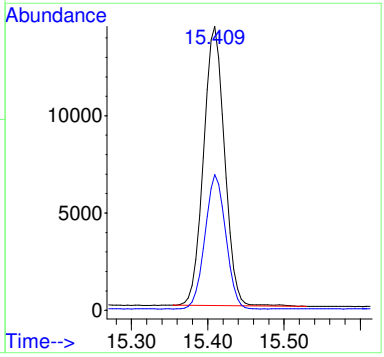


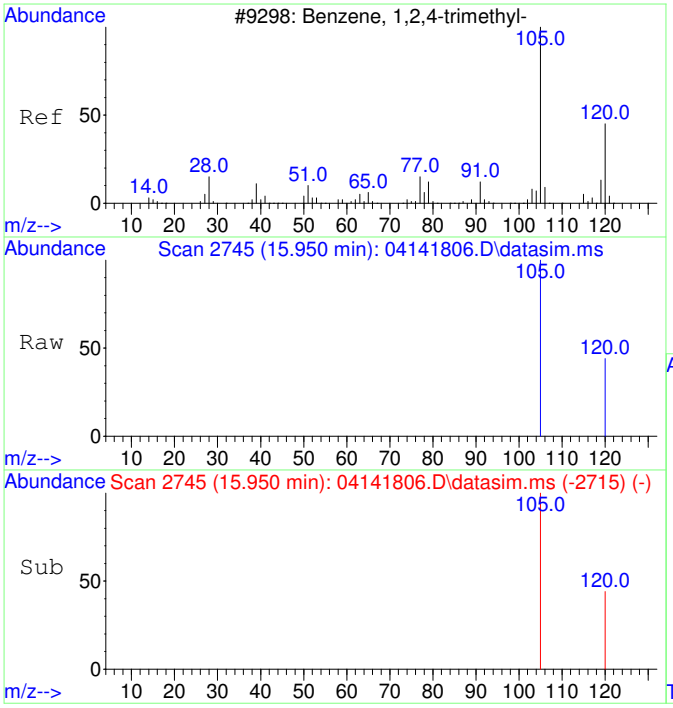


#22
1,3,5-Trimethylbenzene
Concen: 1018.92 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:105 Resp: 27391

Ion	Ratio	Lower	Upper
105	100		
120	47.6	18.1	78.1

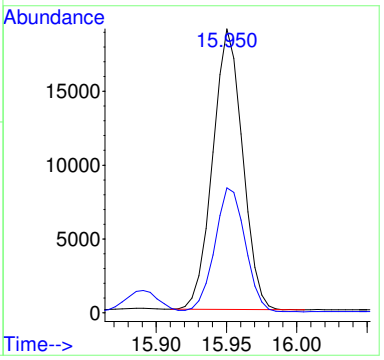


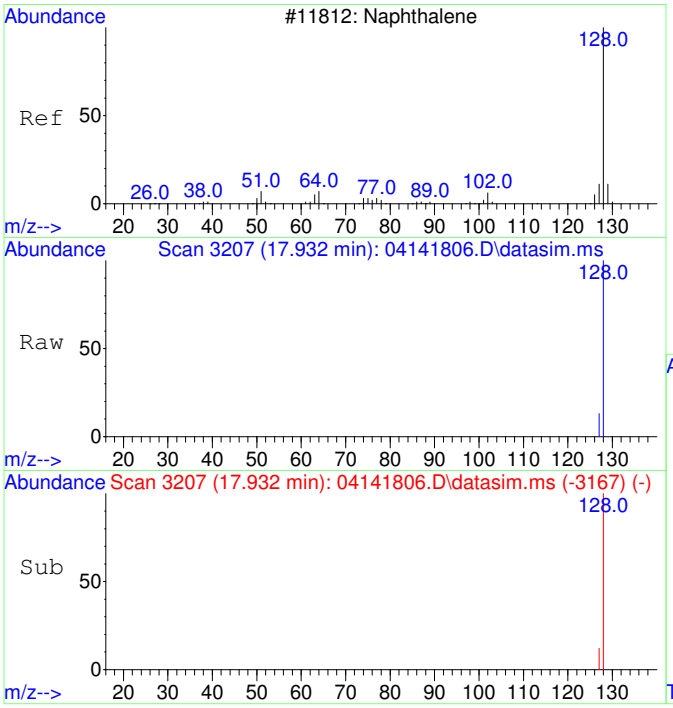


#23
1,2,4-Trimethylbenzene
Concen: 1056.48 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:105 Resp: 27979

Ion	Ratio	Lower	Upper
105	100		
120	44.3	14.5	74.5

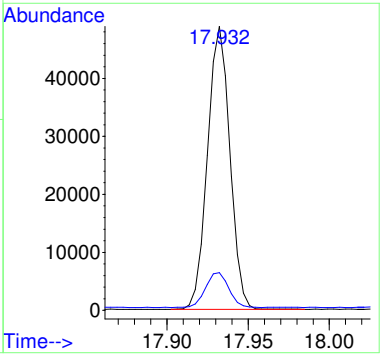


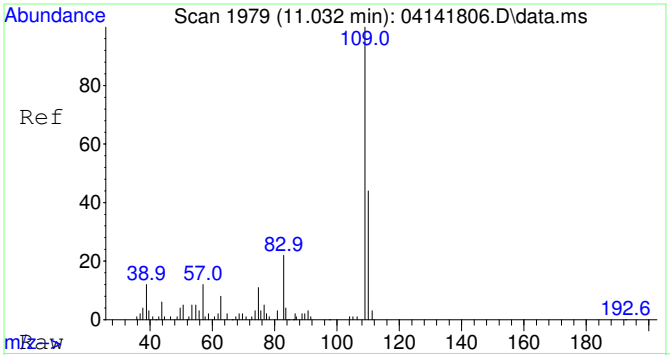


#24
Naphthalene
Concen: 1124.38 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:128 Resp: 46780

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.7

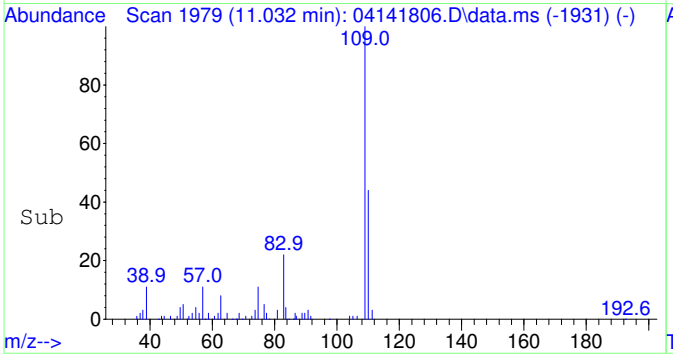


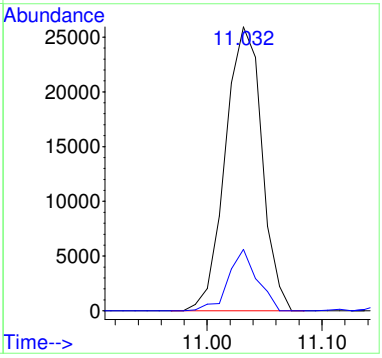


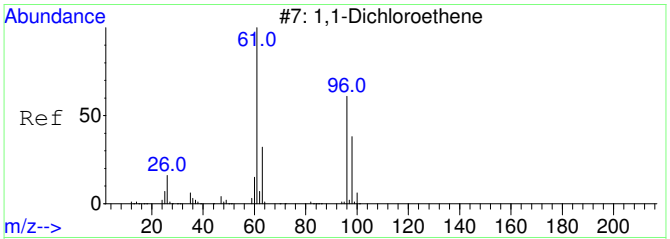
#25
2-Fluorotoluene SCAN
Concen: 3954.03 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

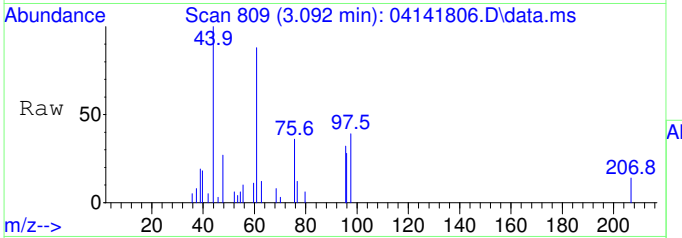
Tgt Ion:109 Resp: 57405

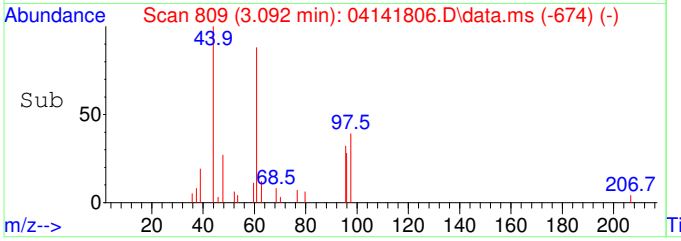
Ion	Ratio	Lower	Upper
109	100		
83	17.0	0.0	49.2







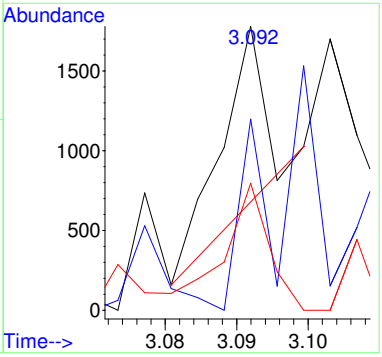


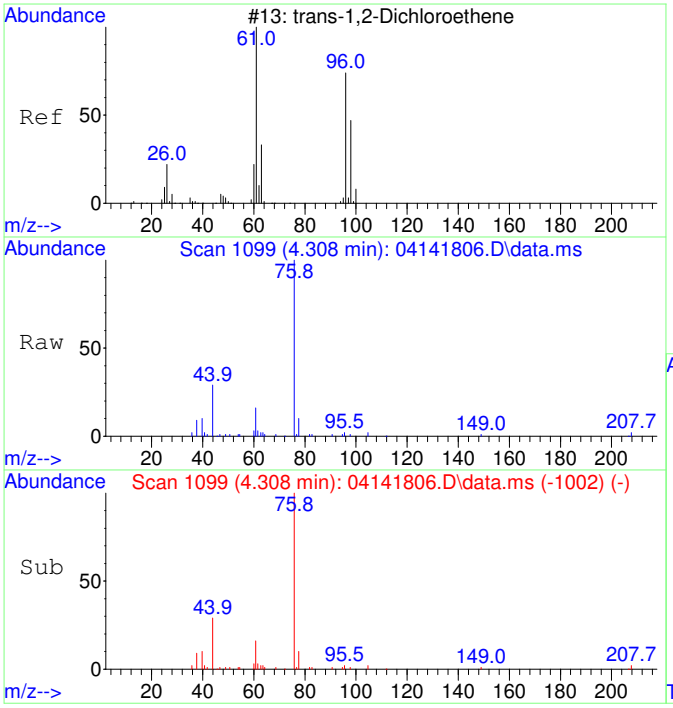


#26
1,1-Dichloroethene SCAN
Concen: 147.95 ug/L
RT: 3.092 min Scan# 809
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 565

Ion	Ratio	Lower	Upper
61	100		
96	47.3	21.6	81.6
98	50.4	7.5	67.5

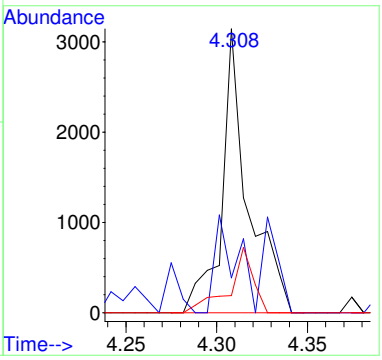


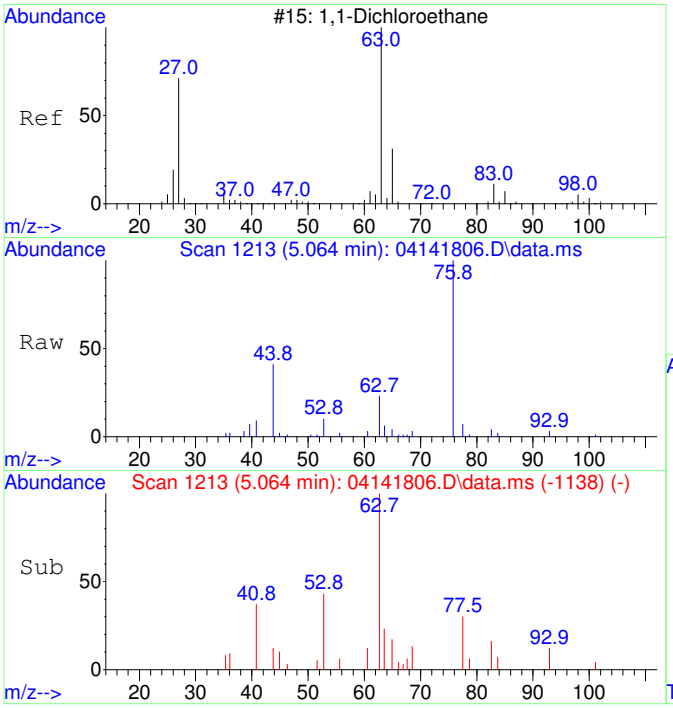


#27
trans-1,2-Dichloroethene SCAN
Concen: 758.02 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 3155

Ion	Ratio	Lower	Upper
61	100		
96	28.9	51.8	111.8#
98	21.0	22.7	82.7#

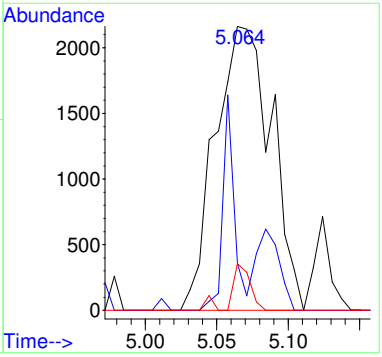


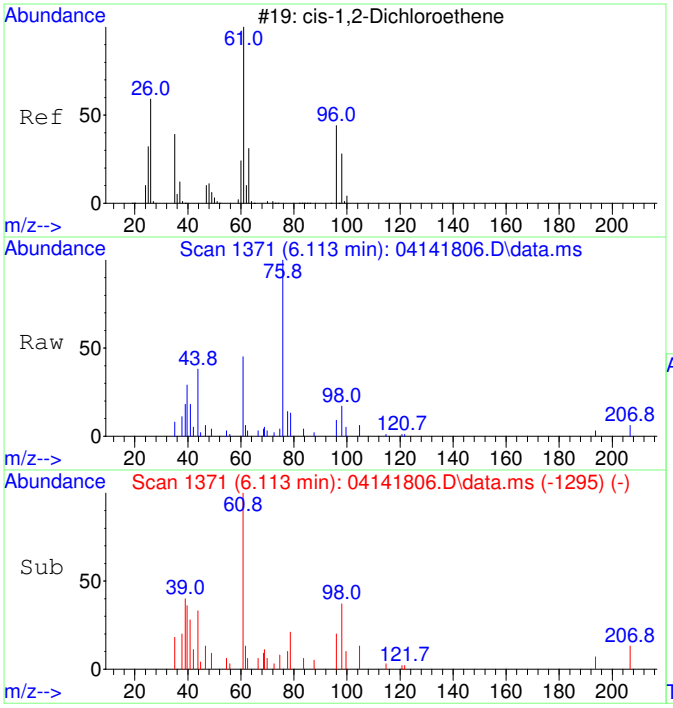


#28
1,1-Dichloroethane SCAN
Concen: 1256.03 ug/L
RT: 5.064 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 63 Resp: 5948

Ion	Ratio	Lower	Upper
63	100		
65	13.6	2.2	62.2
83	5.5	0.0	38.2

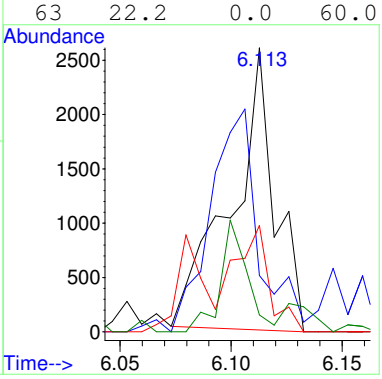


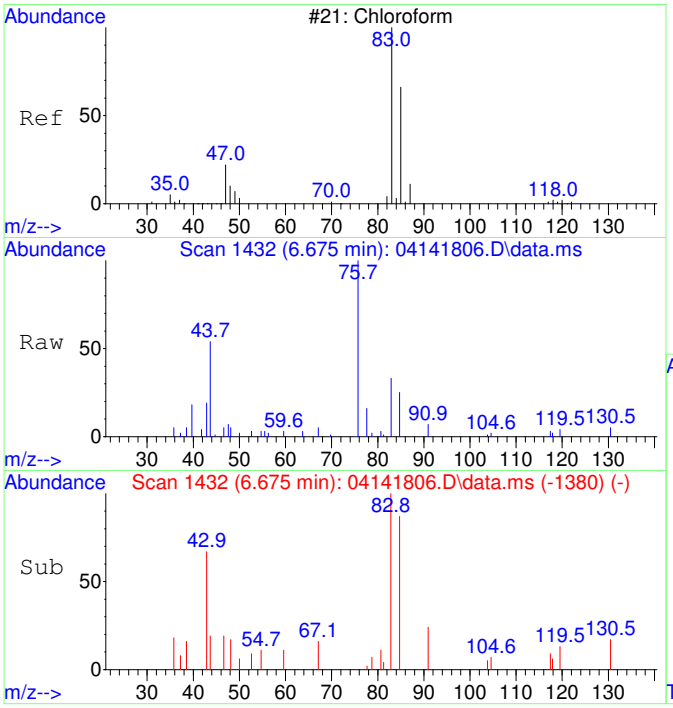


#29
cis-1,2-Dichloroethene SCAN
Concen: 760.33 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.006 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 3561

Ion	Ratio	Lower	Upper
61	100		
96	82.4	49.4	109.4
98	23.2	9.5	69.5
63	22.2	0.0	60.0

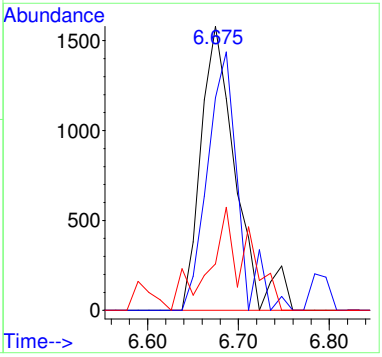


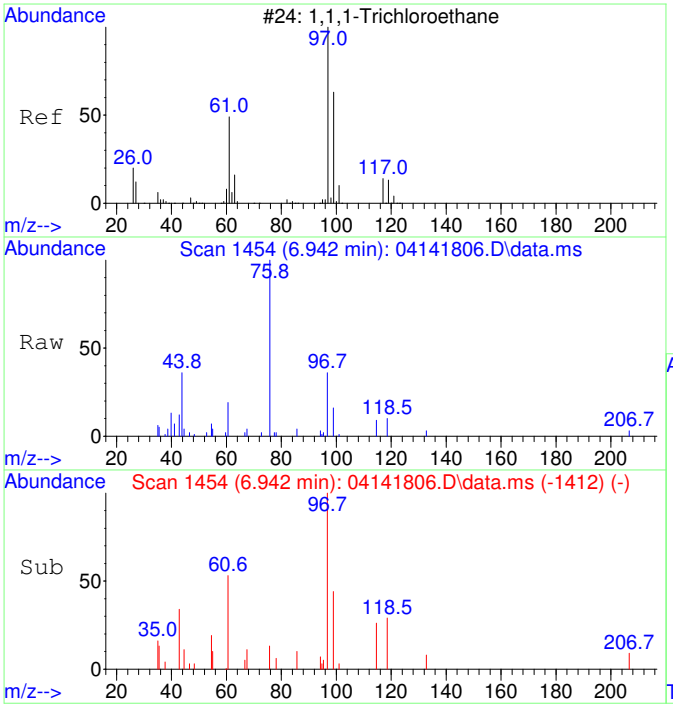


#30
Chloroform SCAN
Concen: 855.20 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 83 Resp: 4209

Ion	Ratio	Lower	Upper
83	100		
85	79.5	47.8	107.8
47	40.1	8.2	68.2

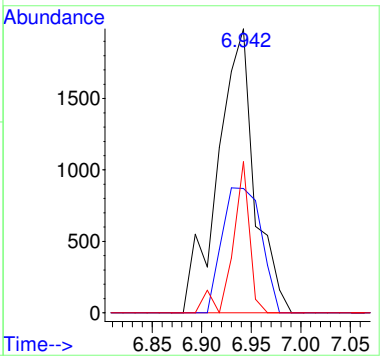


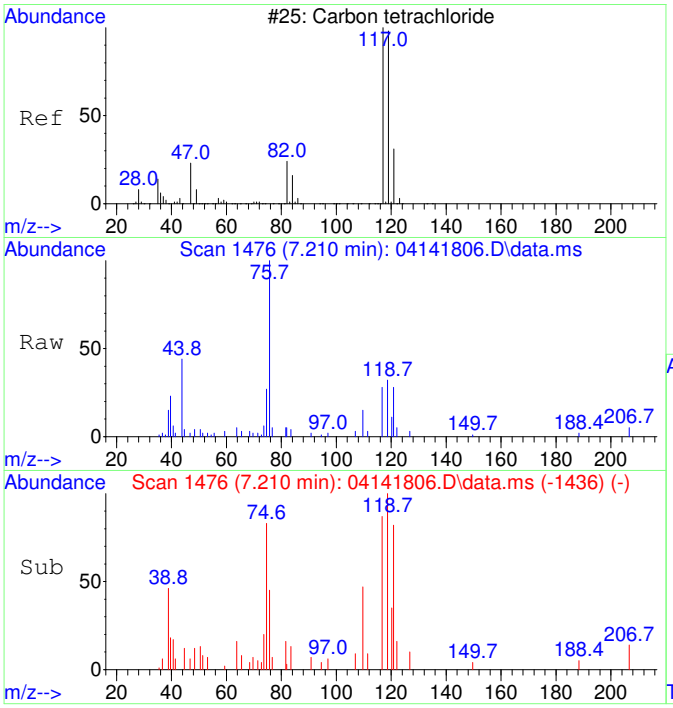


#31
1,1,1-Trichloroethane SCAN
Concen: 1096.03 ug/L
RT: 6.942 min Scan# 1454
Delta R.T. 0.012 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 97 Resp: 5118

Ion	Ratio	Lower	Upper
97	100		
99	47.2	18.3	78.3
61	24.1	16.3	76.3

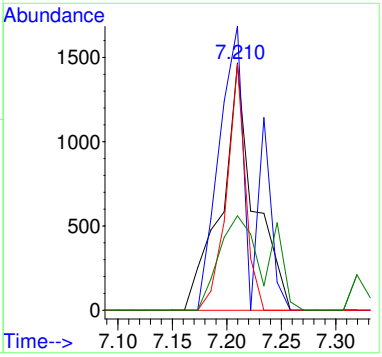


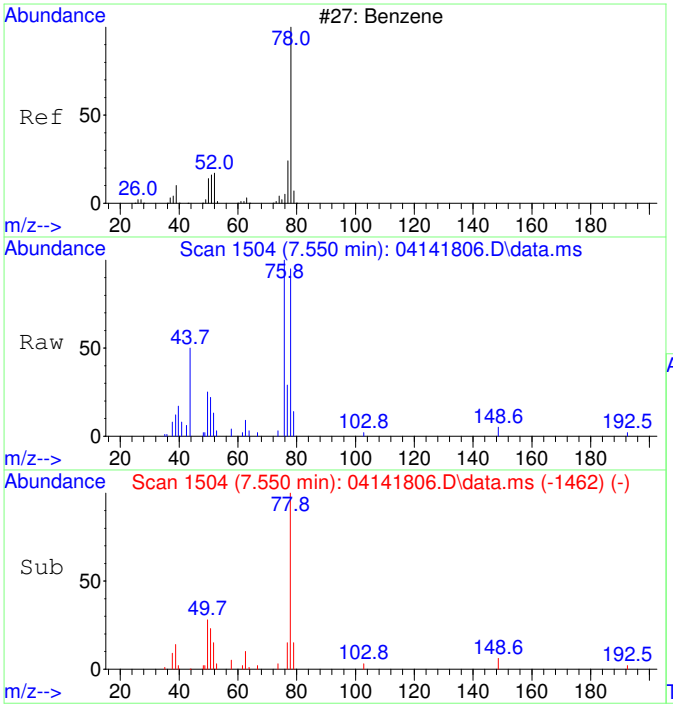


#32
Carbon tetrachloride SCAN
Concen: 894.54 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:117 Resp: 3083

Ion	Ratio	Lower	Upper
117	100		
119	113.1	54.4	114.4
121	57.0	0.0	53.0#
82	55.5	7.9	67.9

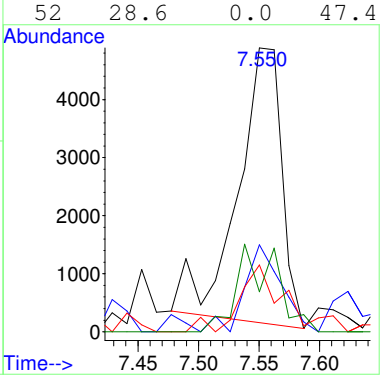


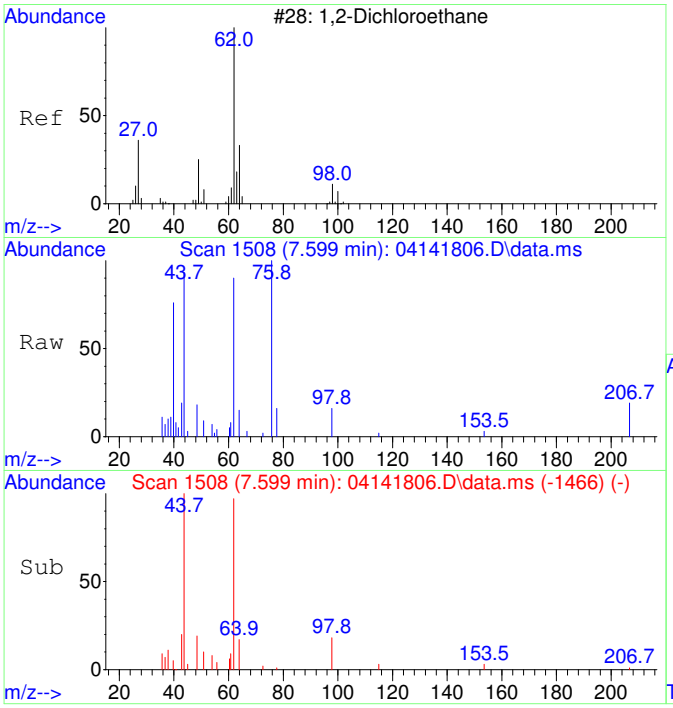


#33
Benzene SCAN
Concen: 897.72 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 78 Resp: 11939

Ion	Ratio	Lower	Upper
78	100		
77	26.5	5.4	65.4
51	27.2	0.0	47.2
52	28.6	0.0	47.4

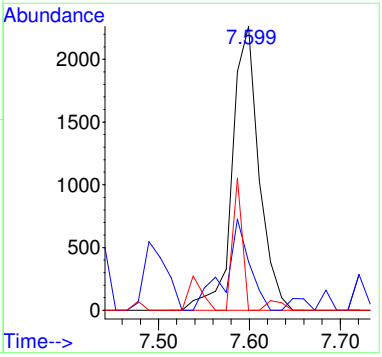


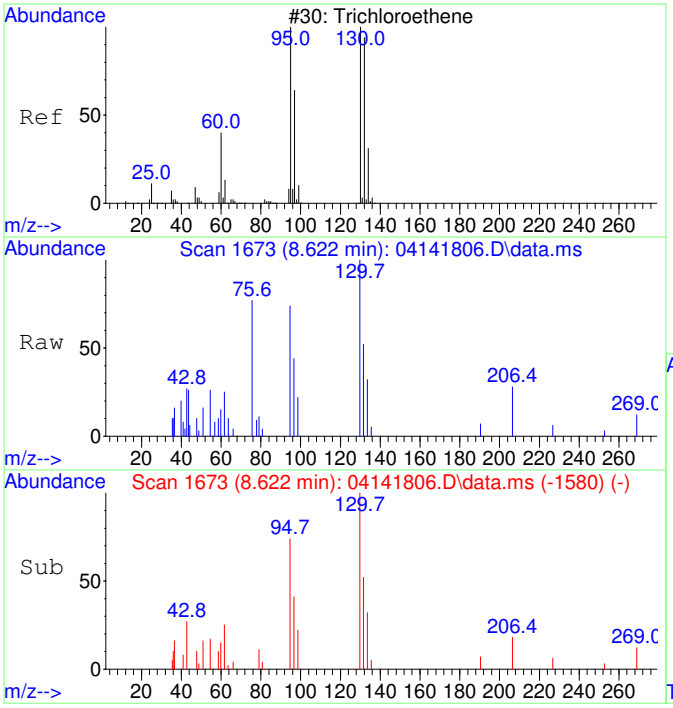


#34
1,2-Dichloroethane SCAN
Concen: 920.49 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 62 Resp: 4632

Ion	Ratio	Lower	Upper
62	100		
64	29.3	4.4	64.4
49	16.6	1.2	61.2

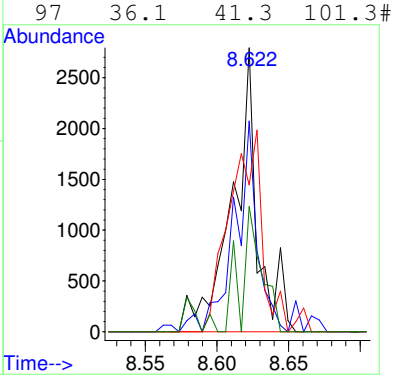


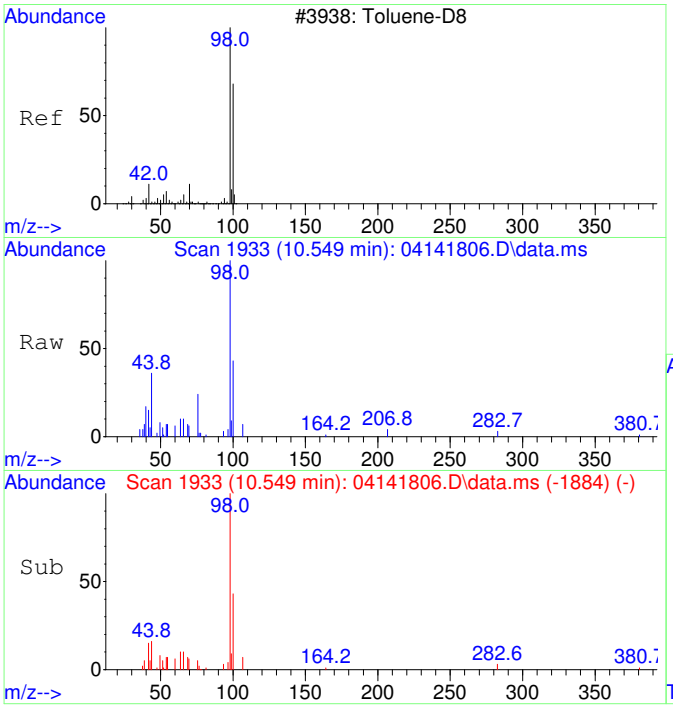


#35
Trichloroethene SCAN
Concen: 1237.85 ug/L
RT: 8.622 min Scan# 1673
Delta R.T. 0.005 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:130 Resp: 3427

Ion	Ratio	Lower	Upper
130	100		
95	68.3	71.3	131.3#
132	85.9	75.1	135.1
97	36.1	41.3	101.3#

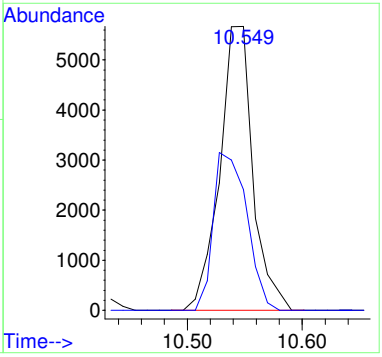


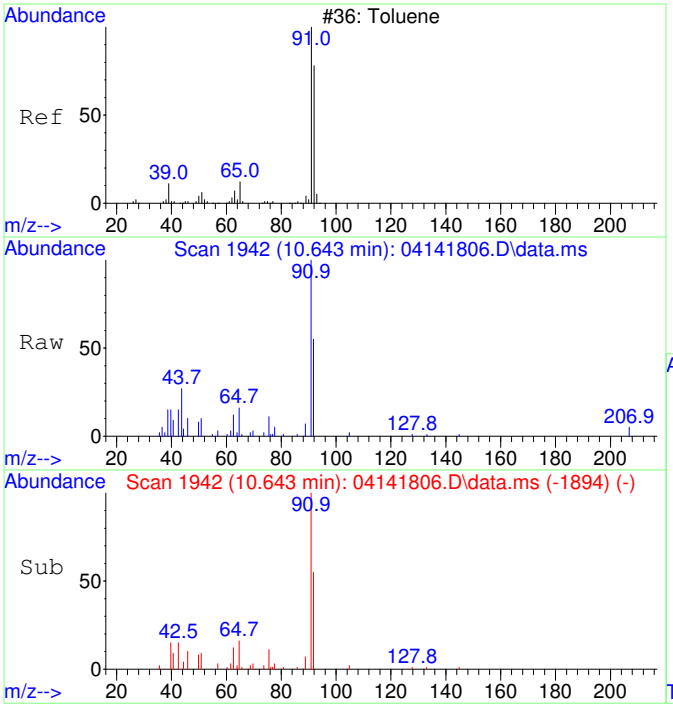


#36
Toluene-d8 SCAN
Concen: 994.31 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 98 Resp: 11415

Ion	Ratio	Lower	Upper
98	100		
100	0.0	37.3	97.3#

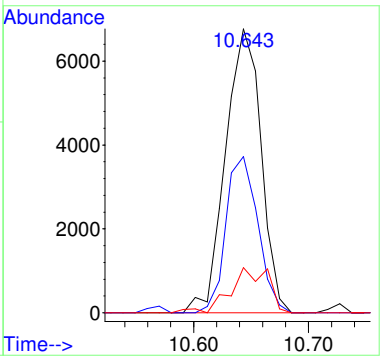


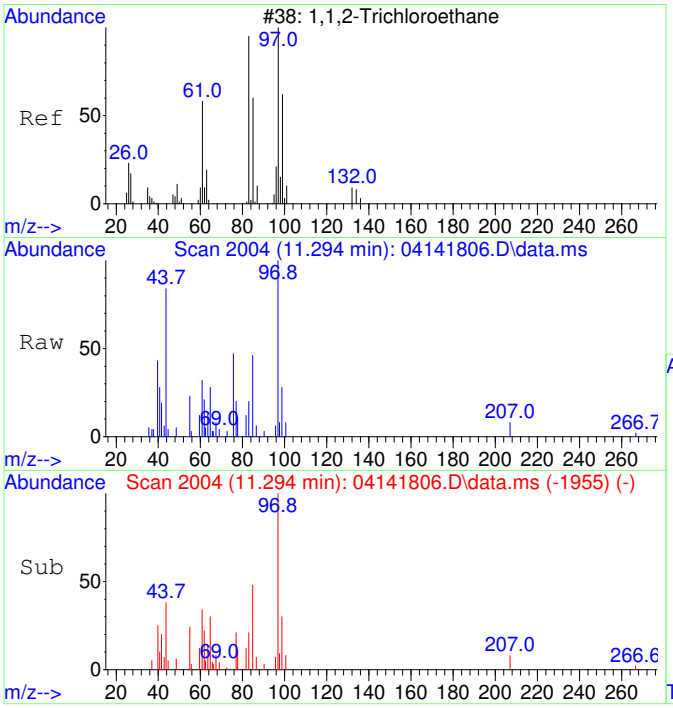


#37
Toluene SCAN
Concen: 926.65 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 14598

Ion	Ratio	Lower	Upper
91	100		
92	49.5	39.1	99.1
65	17.2	0.0	43.8

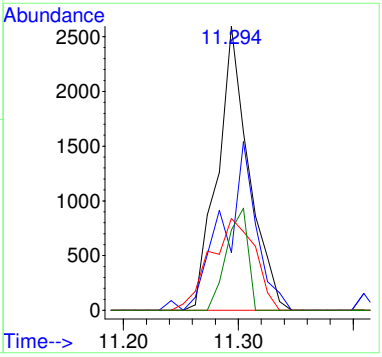


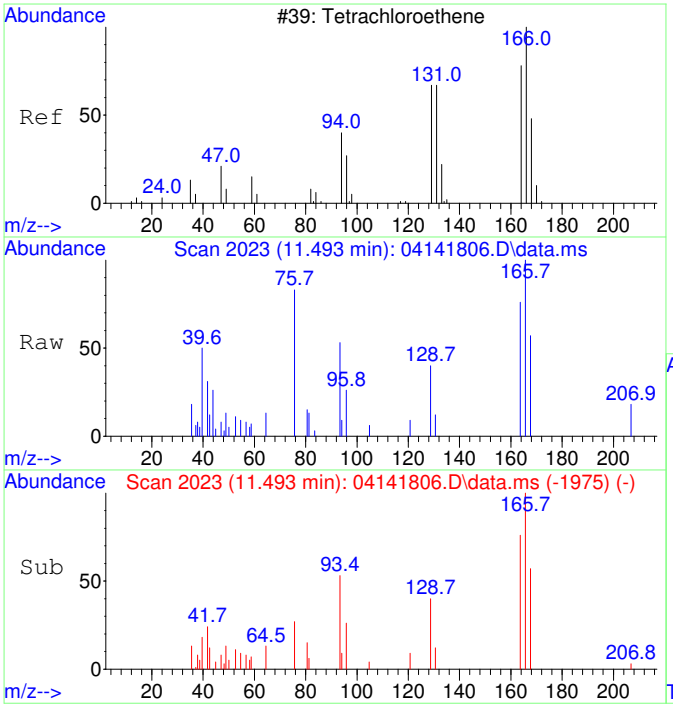


#38
1,1,2-Trichloroethane SCAN
Concen: 1315.10 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.010 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 97 Resp: 4932

Ion	Ratio	Lower	Upper
97	100		
83	62.6	47.4	107.4
61	45.7	29.7	89.7
99	24.6	26.5	86.5#

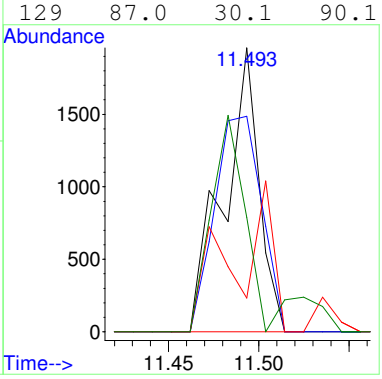


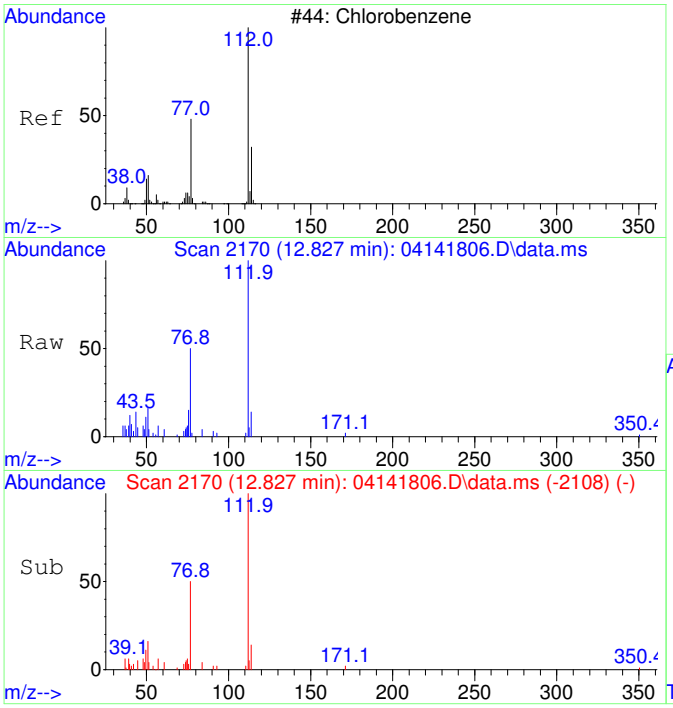


#39
Tetrachloroethene SCAN
Concen: 859.99 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:166 Resp: 2667

Ion	Ratio	Lower	Upper
166	100		
164	101.3	49.8	109.8
131	0.0	42.0	102.0#
129	87.0	30.1	90.1

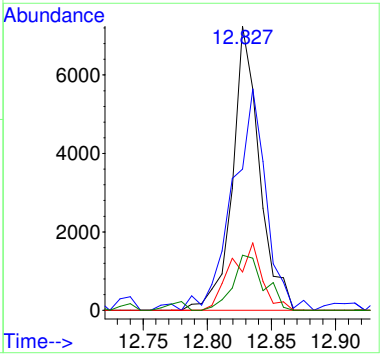


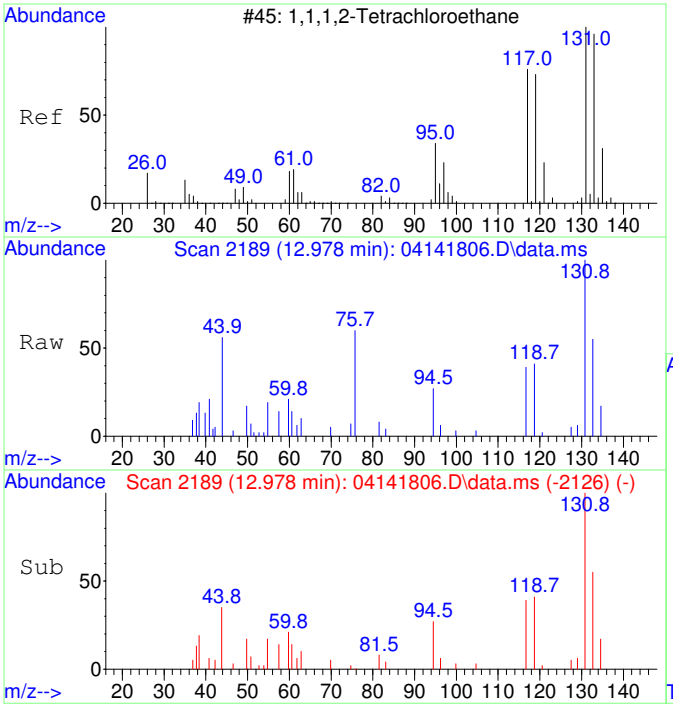


#40
Chlorobenzene SCAN
Concen: 1028.82 ug/L
RT: 12.827 min Scan# 2170
Delta R.T. -0.008 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:112 Resp: 10525

Ion	Ratio	Lower	Upper
112	100		
77	97.8	39.7	99.7
114	27.1	1.2	61.2
51	22.4	0.0	57.1

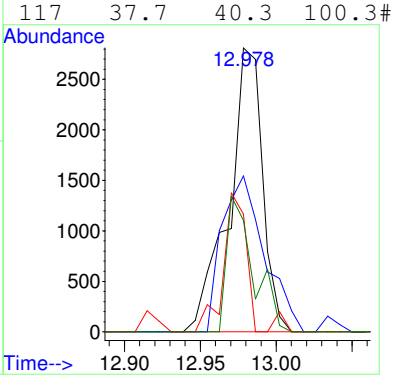


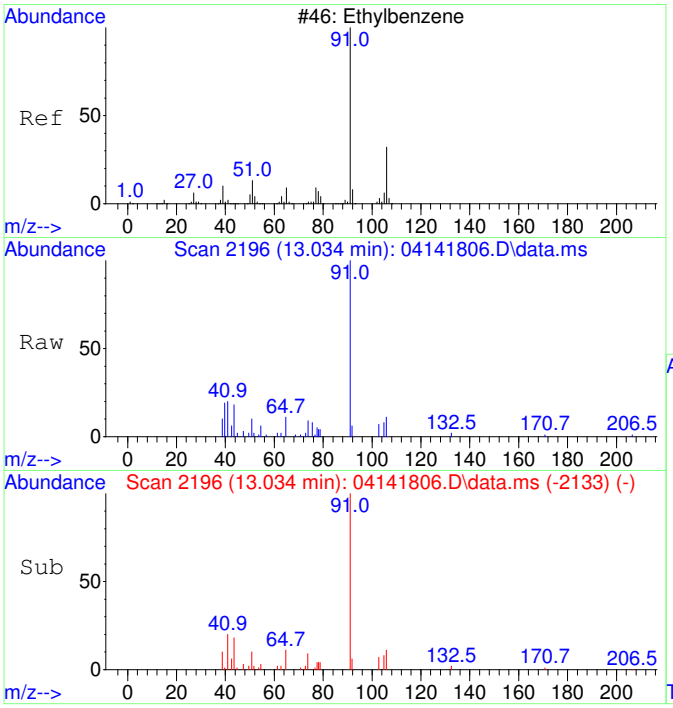


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 1272.58 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:131 Resp: 4371

Ion	Ratio	Lower	Upper
131	100		
133	68.7	78.7	138.7#
119	32.5	43.0	103.0#
117	37.7	40.3	100.3#

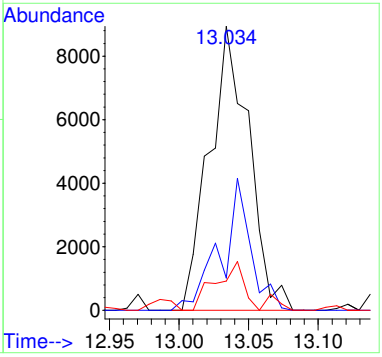


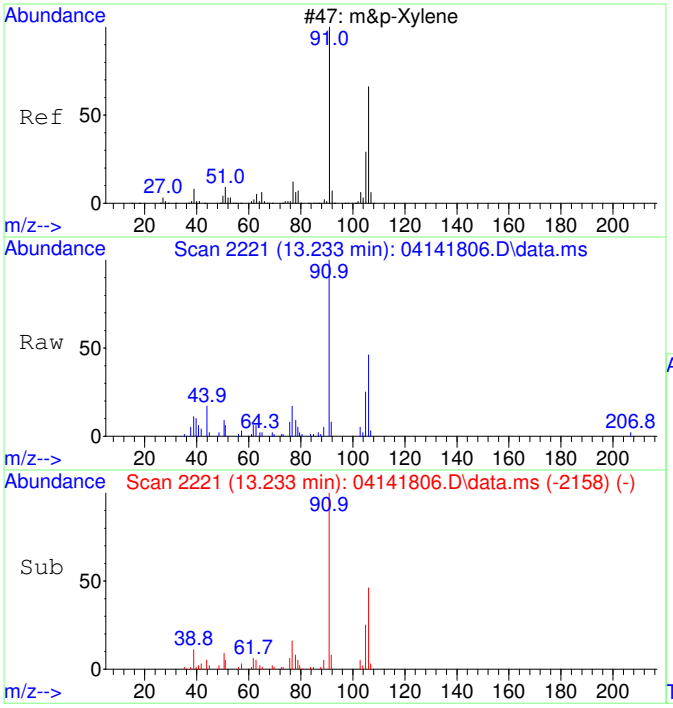


#42
Ethylbenzene SCAN
Concen: 1084.51 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 17712

Ion	Ratio	Lower	Upper
91	100		
106	34.7	1.8	61.8
51	12.3	0.0	45.4

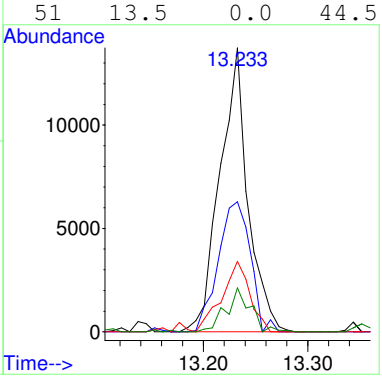


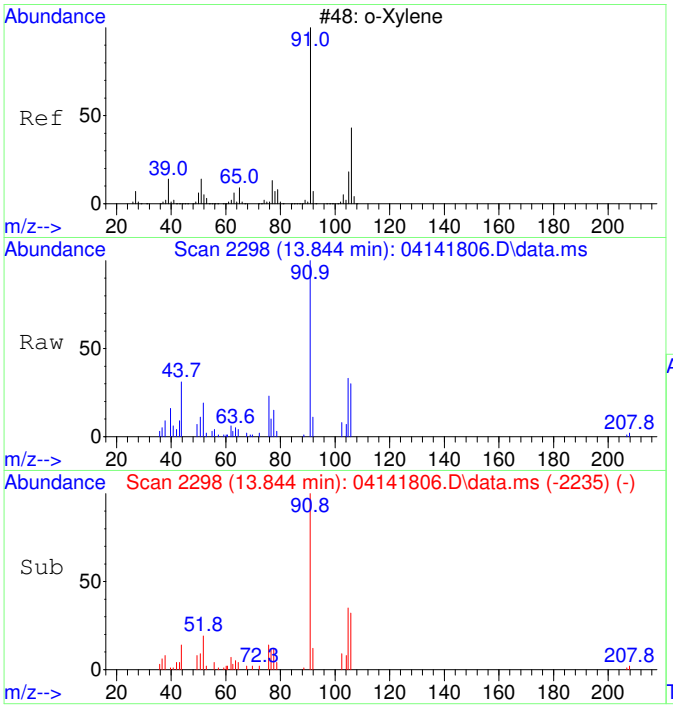


#43
m&p-Xylene SCAN
Concen: 937.02 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 25608

Ion	Ratio	Lower	Upper
91	100		
106	52.5	14.6	74.6
105	24.9	0.0	52.8
51	13.5	0.0	44.5

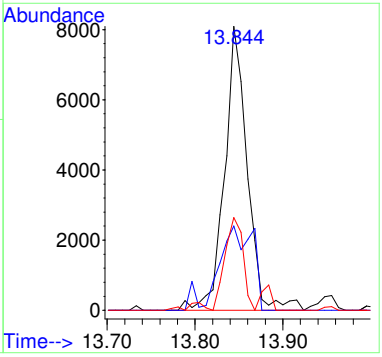


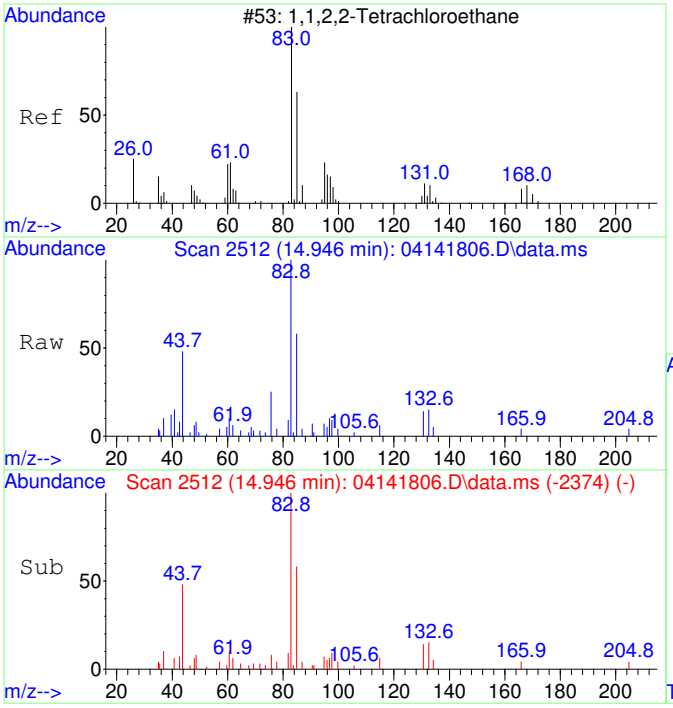


#44
o-Xylene SCAN
Concen: 946.84 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 14547

Ion	Ratio	Lower	Upper
91	100		
106	40.5	20.2	80.2
105	26.1	0.0	54.9

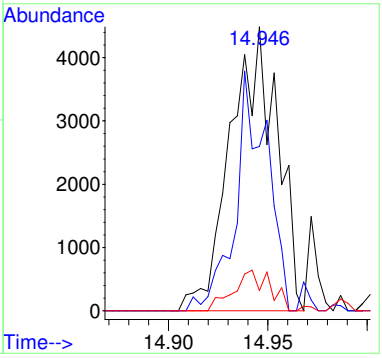


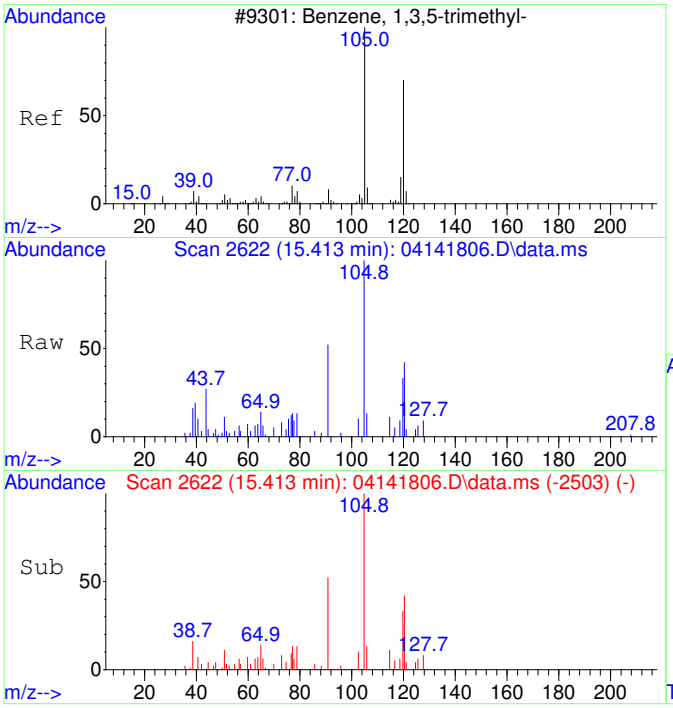


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 711584.61 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 83 Resp: 7311

Ion	Ratio	Lower	Upper
83	100		
85	57.4	32.4	92.4
95	11.2	0.0	41.2

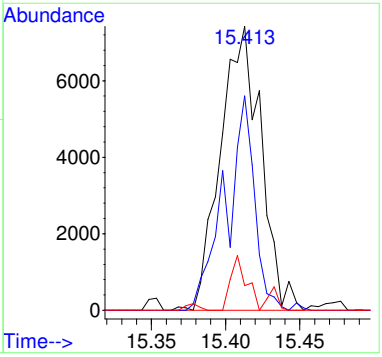


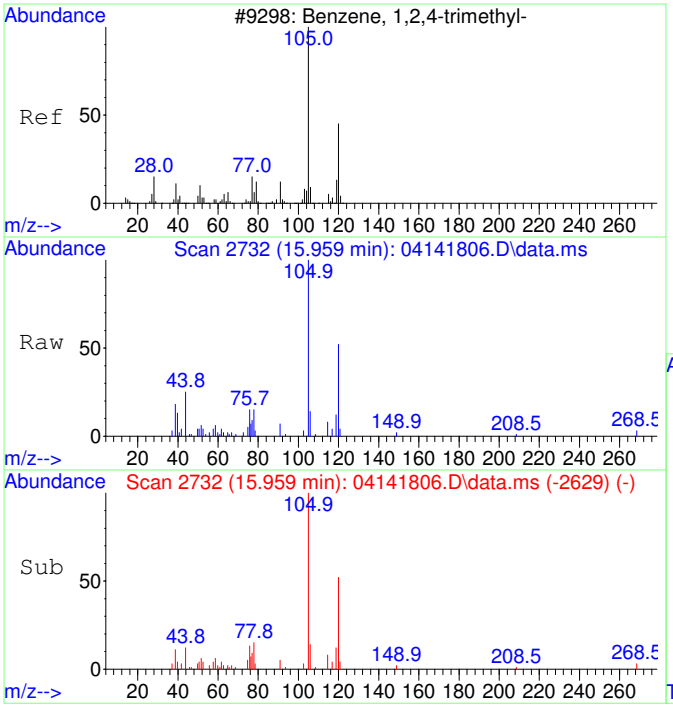


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1073.27 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.001 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:105 Resp: 14113

Ion	Ratio	Lower	Upper
105	100		
120	53.8	16.1	76.1
119	7.6	0.0	41.8

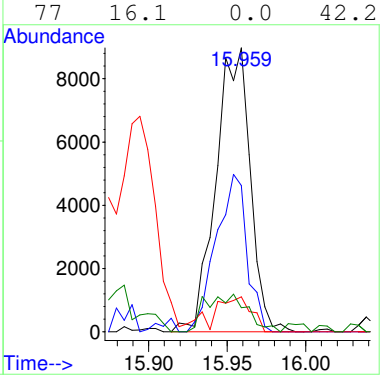


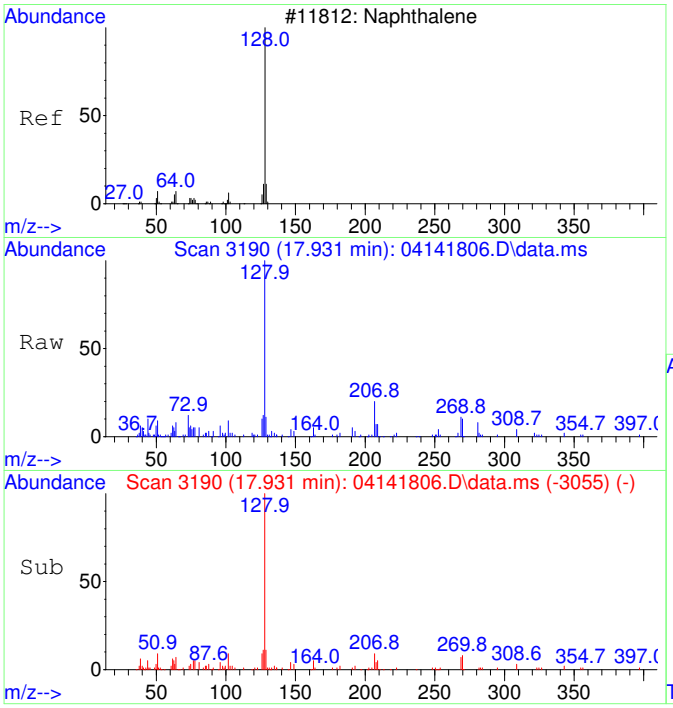


#47
1,2,4-Trimethylbenzene SCAN
Concen: 1017.90 ug/L
RT: 15.959 min Scan# 2732
Delta R.T. 0.011 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:105 Resp: 13626

Ion	Ratio	Lower	Upper
105	100		
120	49.8	12.8	72.8
119	11.0	0.0	42.5
77	16.1	0.0	42.2

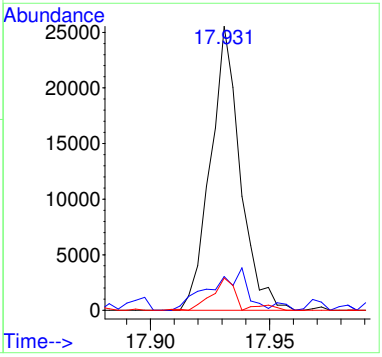


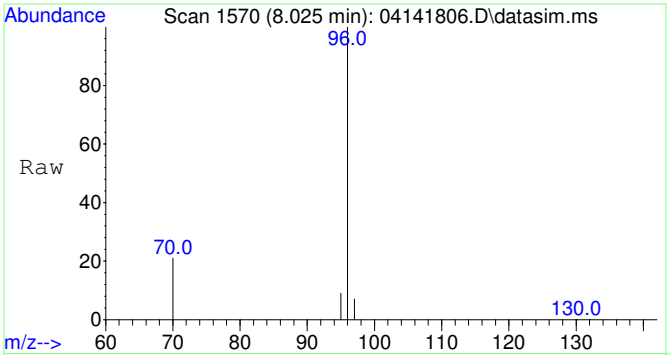


#48
Naphthalene SCAN
Concen: 1190.26 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:128 Resp: 22134

Ion	Ratio	Lower	Upper
128	100		
127	17.0	0.0	45.2
129	7.5	0.0	42.0

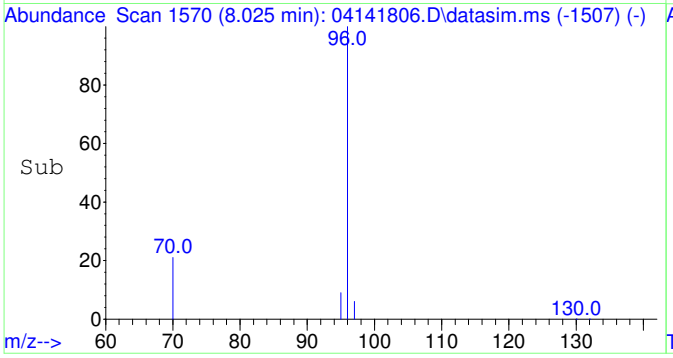


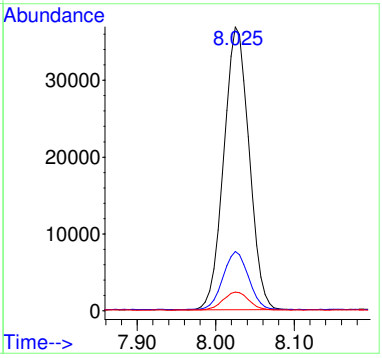


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 96 Resp: 82290

Ion	Ratio	Lower	Upper
96	100		
70	20.6	0.0	50.7
97	6.5	0.0	36.7





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141806.D
Acq On : 14 Apr 2018 12:50
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL4
Misc : 1745076 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

M.I. Performed By:
RH at 9:36 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:09 pm, Apr 16, 2018

Quant Time: Apr 16 09:27:02 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

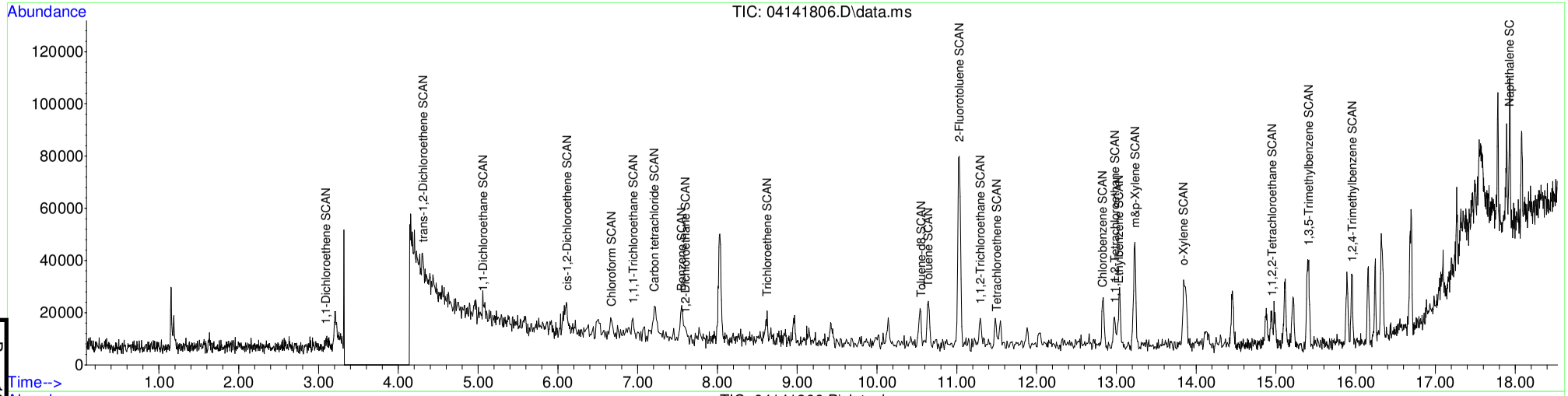
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	121605	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	82290	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	20692	1050.23 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 21.00%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	5021m	862.77 ug/L	
3] trans-1,2-Dichloroethene	4.309	61	5338	897.45 ug/L	100
4] 1,1-Dichloroethane	5.072	63	7043	951.95 ug/L	100
5] cis-1,2-Dichloroethene	6.101	61	6716	916.23 ug/L	100
6] Chloroform	6.676	83	7560	922.43 ug/L	98
7] 1,1,1-Trichloroethane	6.931	97	7518	966.87 ug/L	99
8] Carbon tetrachloride	7.211	117	7024	982.76 ug/L	100
9] Benzene	7.539	78	19596	981.32 ug/L	100
10] 1,2-Dichloroethane	7.588	62	6946	947.36 ug/L	96
11] Trichloroethene	8.618	130	5468	1041.98 ug/L	99
13] Toluene	10.634	91	24977	960.17 ug/L	99
14] 1,1,2-Trichloroethane	11.295	97	5586	955.66 ug/L	99
15] Tetrachloroethene	11.495	166	7172	957.44 ug/L	100
16] Chlorobenzene	12.829	112	18703	1039.60 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.980	131	6142	1093.05 ug/L	98
18] Ethylbenzene	13.035	91	30762	1004.77 ug/L	99
19] m&p-Xylene	13.226	91	48124	2020.76 ug/L	100
20] o-Xylene	13.846	91	24994	991.03 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.943	83	11577	956.91 ug/L	100
22] 1,3,5-Trimethylbenzene	15.409	105	27391	1018.92 ug/L	99
23] 1,2,4-Trimethylbenzene	15.950	105	27979	1056.48 ug/L	100
24] Naphthalene	17.932	128	46780	1124.38 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	57405	3954.03 ug/L	95
26) 1,1-Dichloroethene SCAN	3.092	61	565	147.95 ug/L	87
27) trans-1,2-Dichloroethe...	4.308	61	3155	758.02 ug/L #	46
28) 1,1-Dichloroethane SCAN	5.064	63	5948	1256.03 ug/L	72
29) cis-1,2-Dichloroethene...	6.113	61	3561	760.33 ug/L	88
30) Chloroform SCAN	6.675	83	4209	855.20 ug/L	98
31) 1,1,1-Trichloroethane ...	6.942	97	5118	1096.03 ug/L	83
32) Carbon tetrachloride SCAN	7.210	117	3083	894.54 ug/L #	63
33) Benzene SCAN	7.550	78	11939	897.72 ug/L	80
34) 1,2-Dichloroethane SCAN	7.599	62	4632	920.49 ug/L	83
35) Trichloroethene SCAN	8.622	130	3427	1237.85 ug/L #	70
36) Toluene-d8 SCAN	10.549	98	11415	994.31 ug/L #	16
37) Toluene SCAN	10.643	91	14598	926.65 ug/L	79
38) 1,1,2-Trichloroethane ...	11.294	97	4932	1315.10 ug/L #	75
39) Tetrachloroethene SCAN	11.493	166	2667	859.99 ug/L #	51
40) Chlorobenzene SCAN	12.827	112	10525	1028.82 ug/L	78
41) 1,1,1,2-Tetrachloroeth...	12.978	131	4371	1272.58 ug/L #	58
42) Ethylbenzene SCAN	13.034	91	17712	1084.51 ug/L	94
43) m&p-Xylene SCAN	13.233	91	25608	937.02 ug/L	92
44) o-Xylene SCAN	13.844	91	14547	946.84 ug/L	90
45) 1,1,2,2-Tetrachloroeth...	14.946	83	7311	711584.61 ug/L	95
46) 1,3,5-Trimethylbenzene...	15.413	105	14113	1073.27 ug/L	89
47) 1,2,4-Trimethylbenzene...	15.959	105	13626	1017.90 ug/L	91
48) Naphthalene SCAN	17.931	128	22134	1190.26 ug/L	93

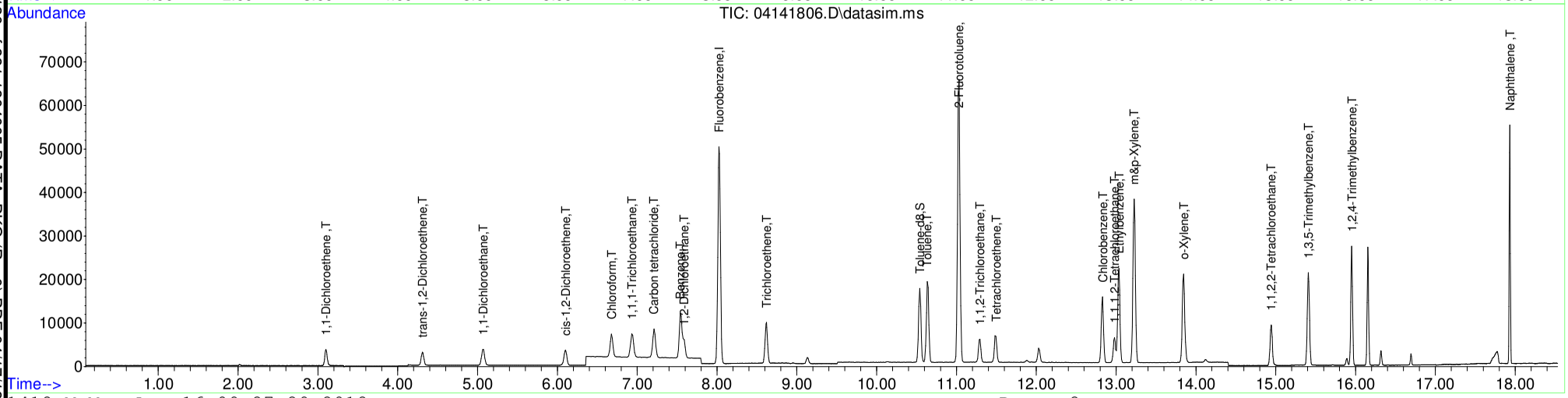
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141806.D
Acq On : 14 Apr 2018 12:50
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL4
Misc : 1745076 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 16 09:27:02 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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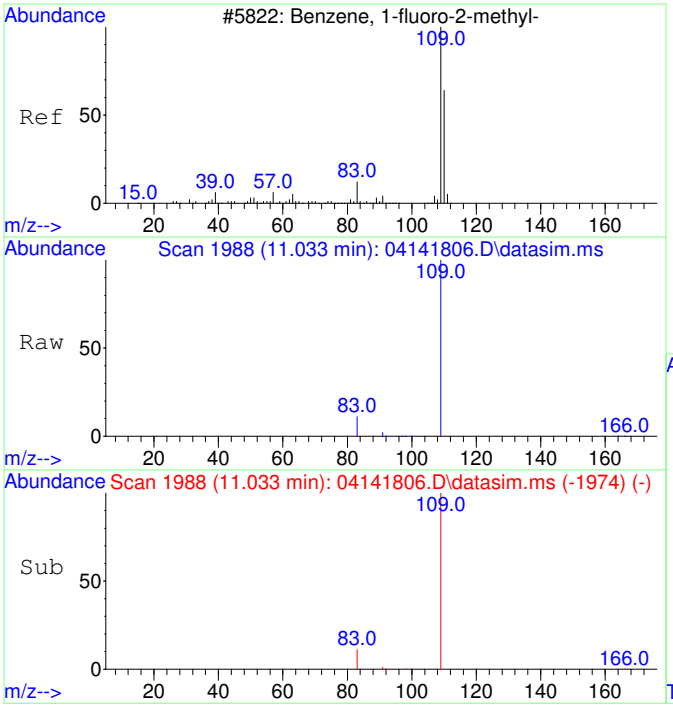
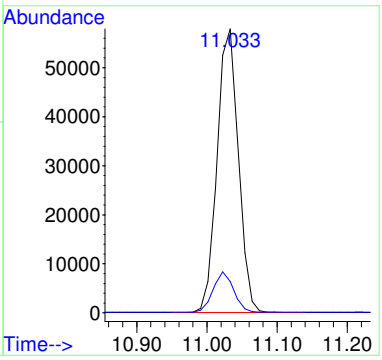
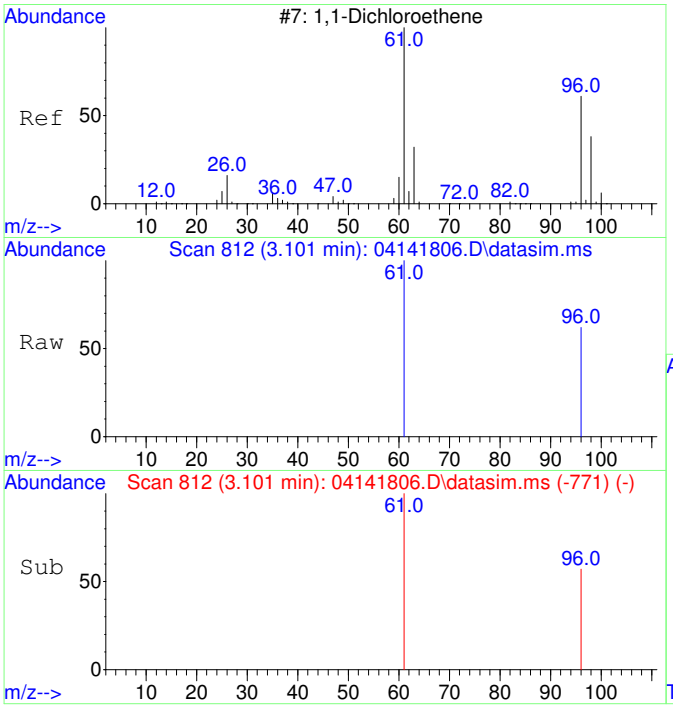


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:109 Resp: 121605

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

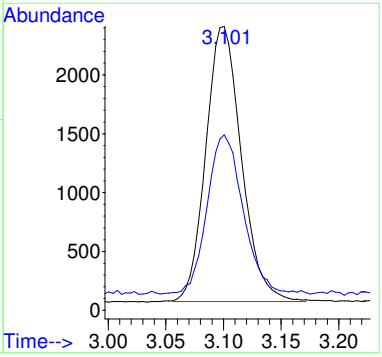


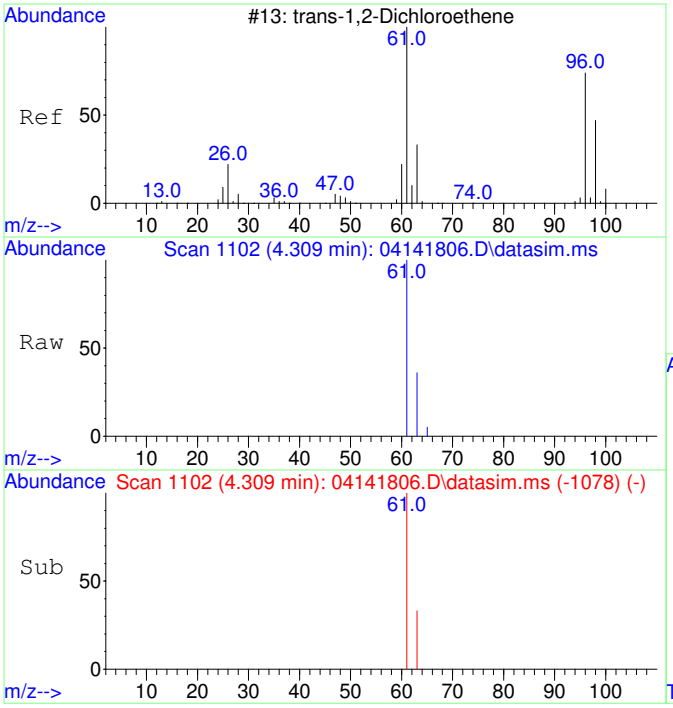


#2
1,1-Dichloroethene
Concen: 862.77 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. 0.003 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 5021

Ion	Ratio	Lower	Upper
61	100		
96	65.7	26.1	86.1

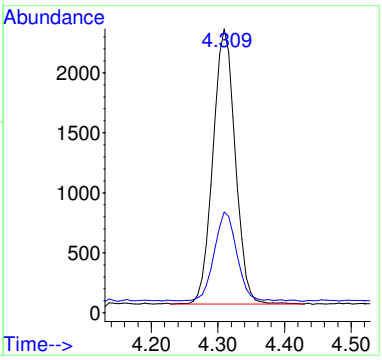


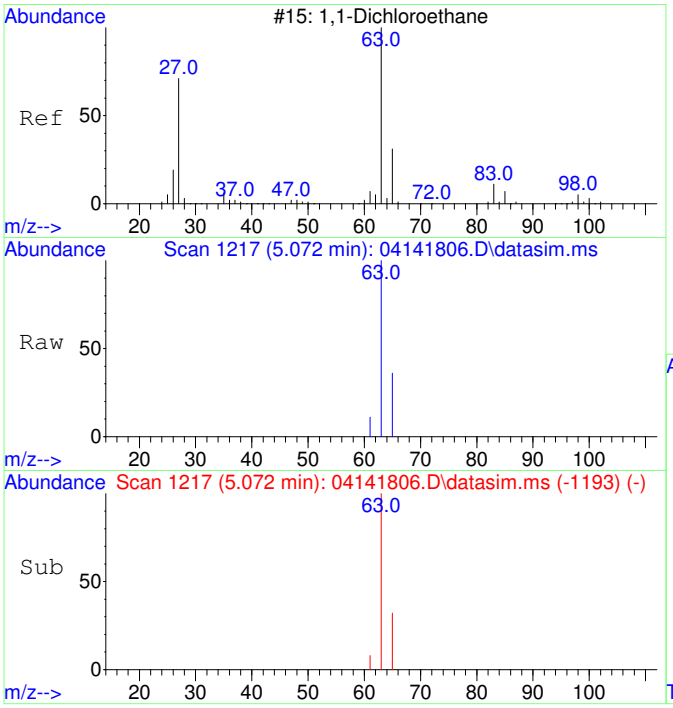


#3
trans-1,2-Dichloroethene
Concen: 897.45 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.006 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 5338

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

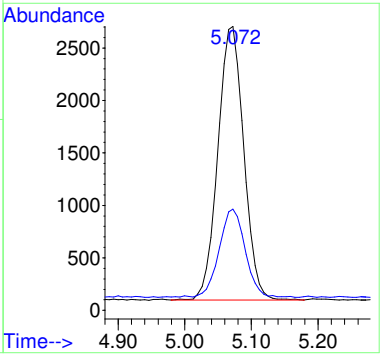


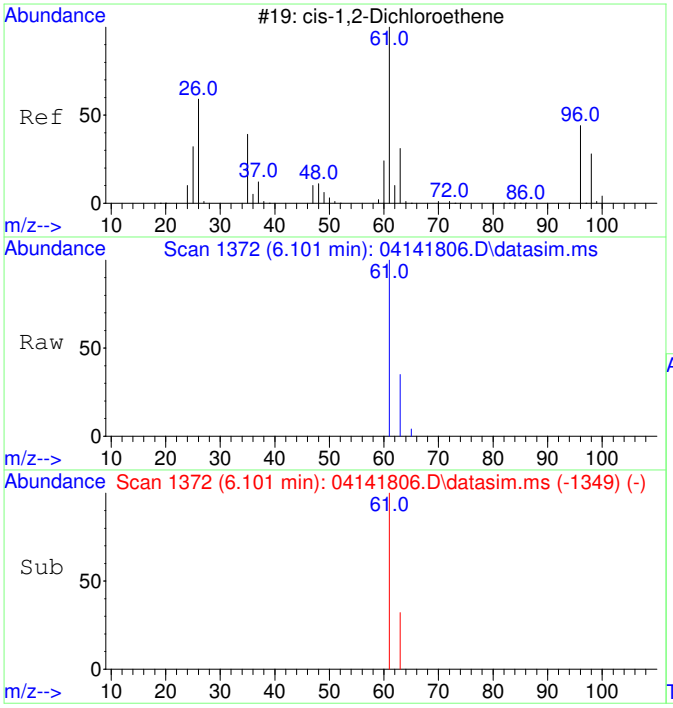


#4
1,1-Dichloroethane
Concen: 951.95 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 63 Resp: 7043

Ion	Ratio	Lower	Upper
63	100		
65	31.7	1.8	61.8

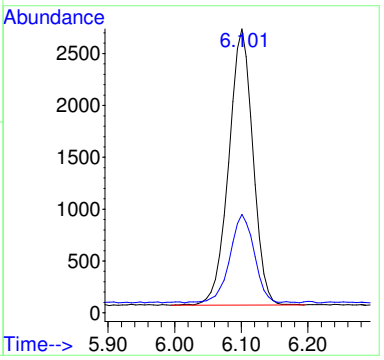


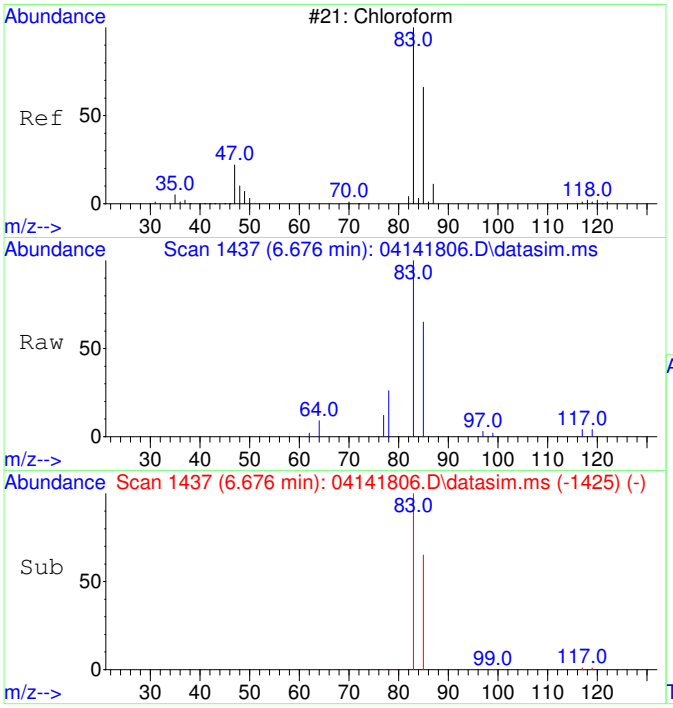


#5
cis-1,2-Dichloroethene
Concen: 916.23 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 6716

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.0	62.0

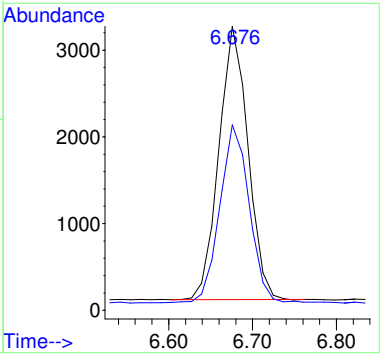


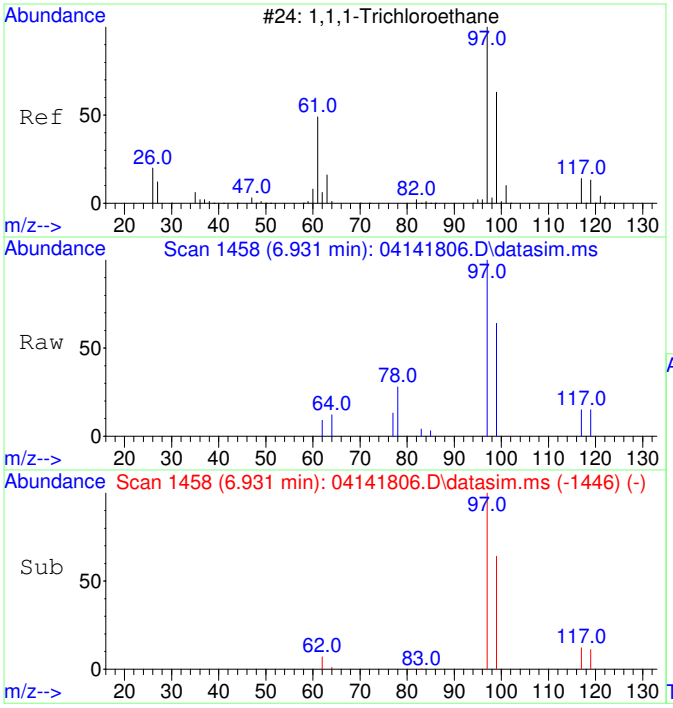


#6
Chloroform
Concen: 922.43 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 83 Resp: 7560

Ion	Ratio	Lower	Upper
83	100		
85	65.5	34.2	94.2

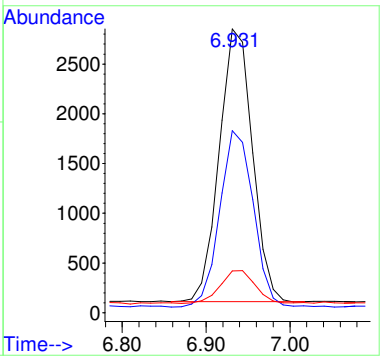


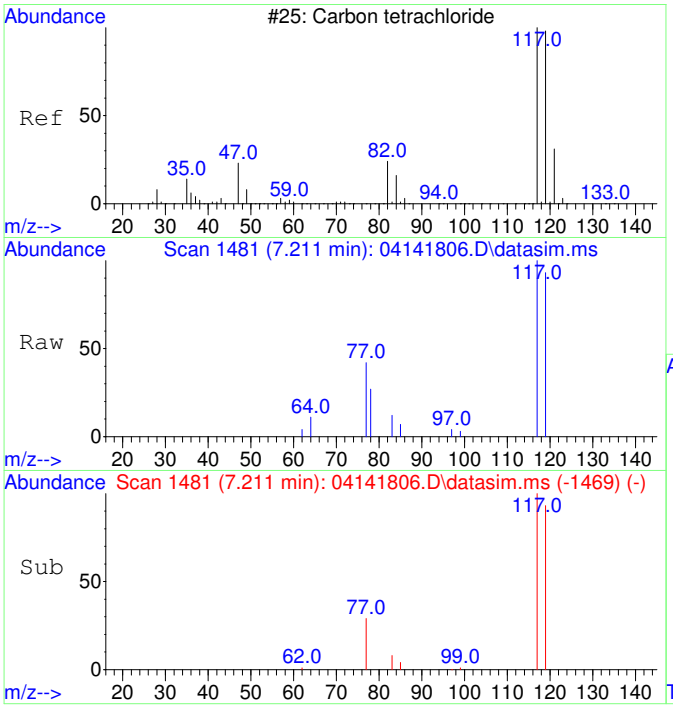


#7
1,1,1-Trichloroethane
Concen: 966.87 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 97 Resp: 7518

Ion	Ratio	Lower	Upper
97	100		
99	65.2	34.5	94.5
117	12.8	0.0	42.6

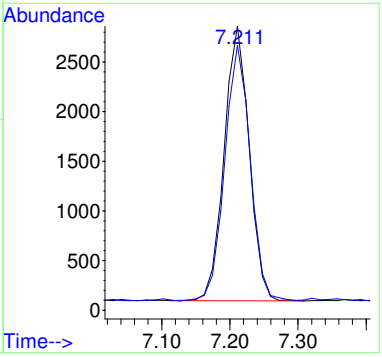


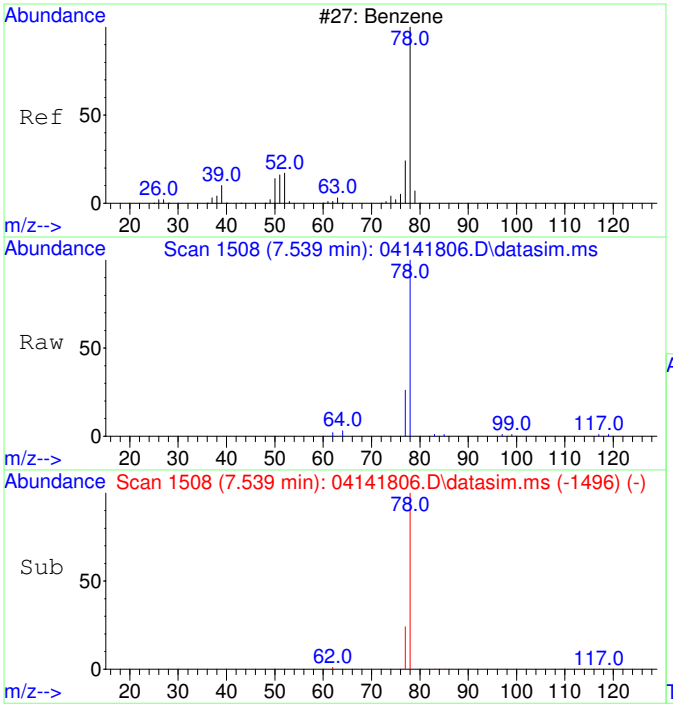


#8
Carbon tetrachloride
Concen: 982.76 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:117 Resp: 7024

Ion	Ratio	Lower	Upper
117	100		
119	94.7	64.5	124.5

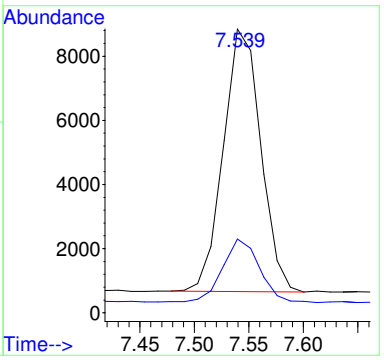


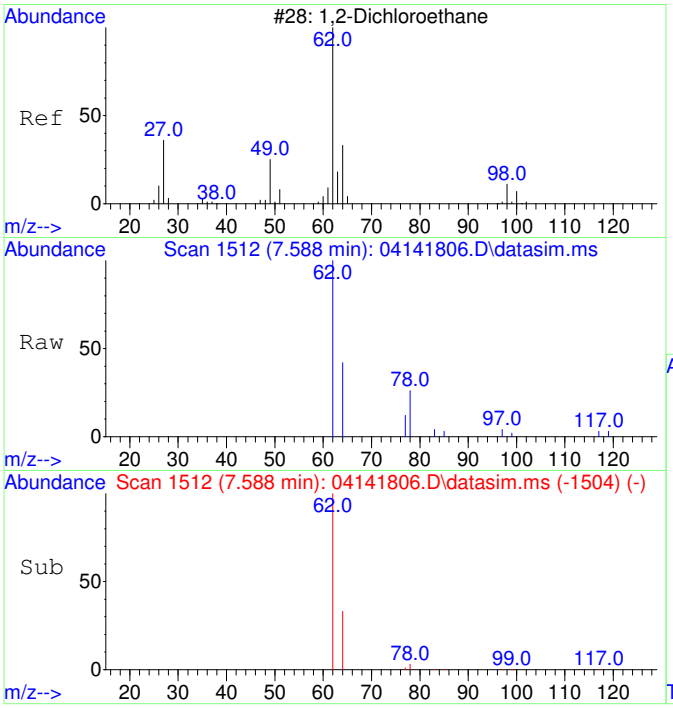


#9
Benzene
Concen: 981.32 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 78 Resp: 19596

Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.6

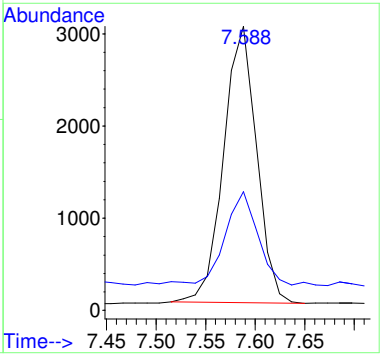


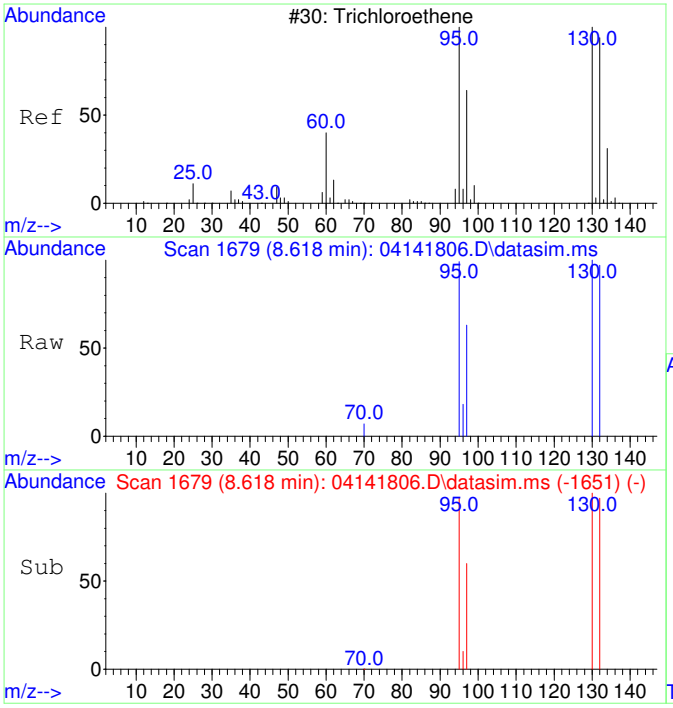


#10
1,2-Dichloroethane
Concen: 947.36 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 62 Resp: 6946

Ion	Ratio	Lower	Upper
62	100		
64	33.8	1.8	61.8

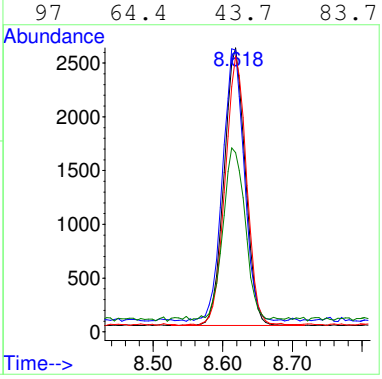


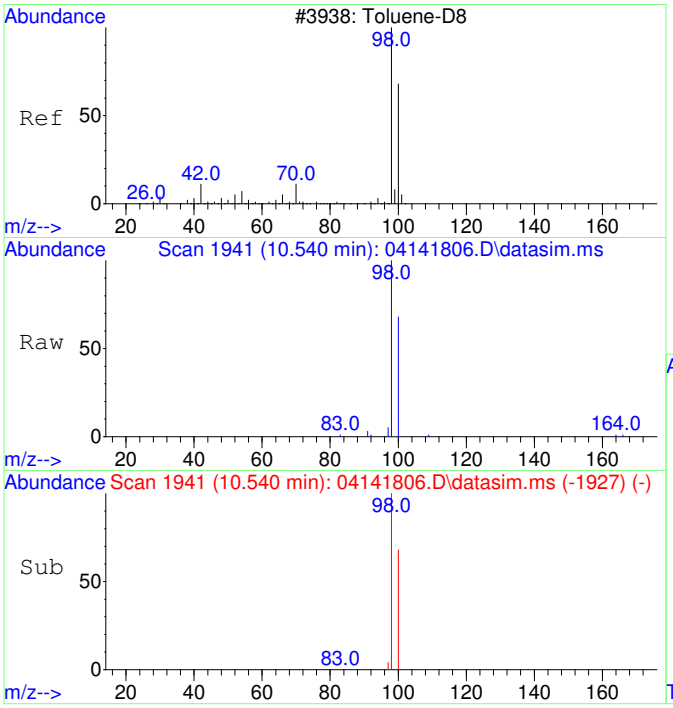


#11
Trichloroethene
Concen: 1041.98 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:130 Resp: 5468

Ion	Ratio	Lower	Upper
130	100		
95	98.6	68.8	128.8
132	97.4	78.6	118.6
97	64.4	43.7	83.7

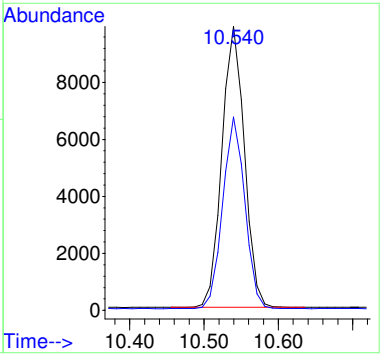


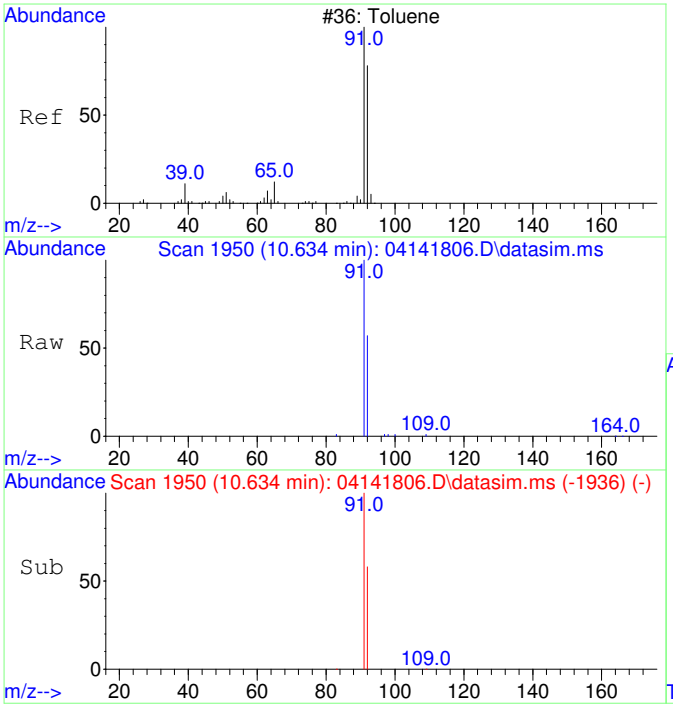


#12
Toluene-d8
Concen: 1050.23 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 98 Resp: 20692

Ion	Ratio	Lower	Upper
98	100		
100	66.9	36.9	96.9

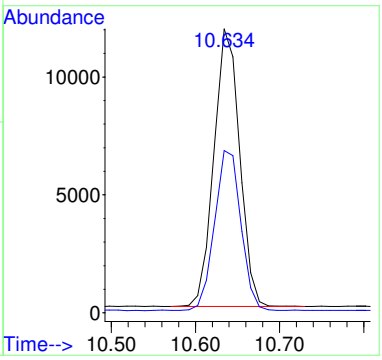


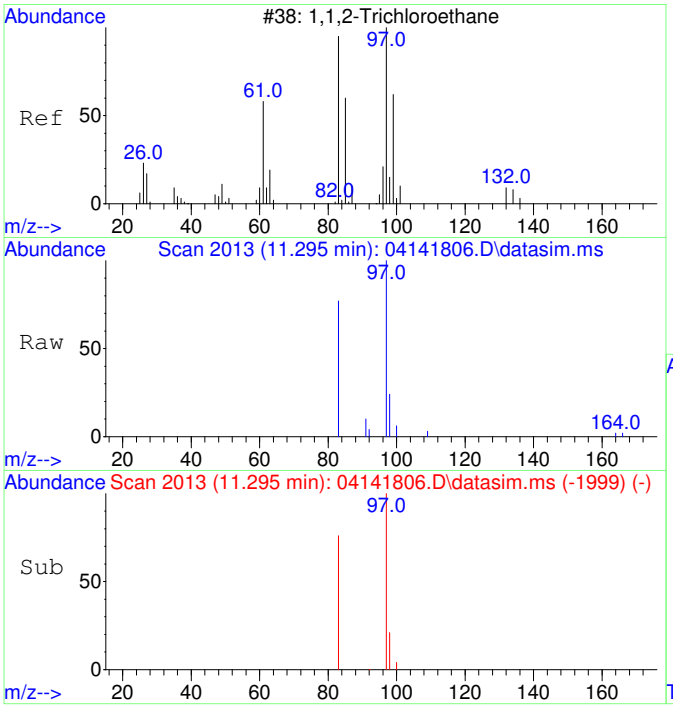


#13
Toluene
Concen: 960.17 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 24977

Ion	Ratio	Lower	Upper
91	100		
92	59.3	28.8	88.8

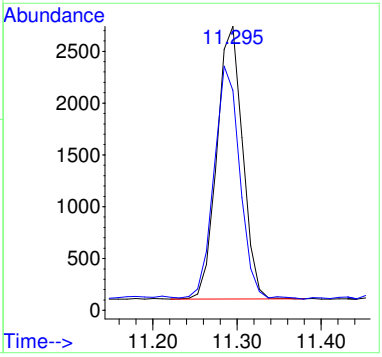


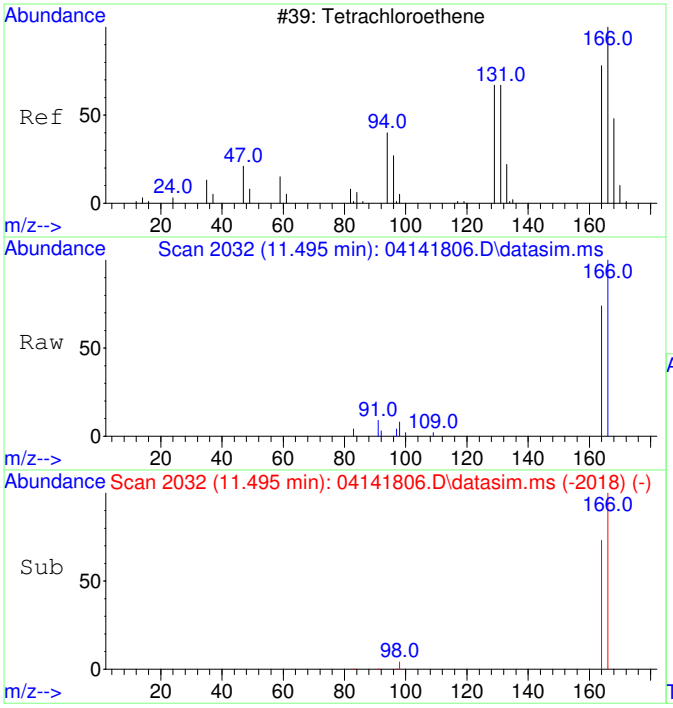


#14
1,1,2-Trichloroethane
Concen: 955.66 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 97 Resp: 5586

Ion	Ratio	Lower	Upper
97	100		
83	85.4	54.3	114.3

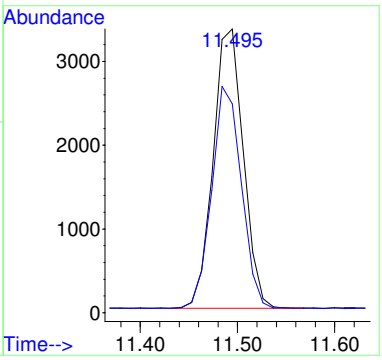


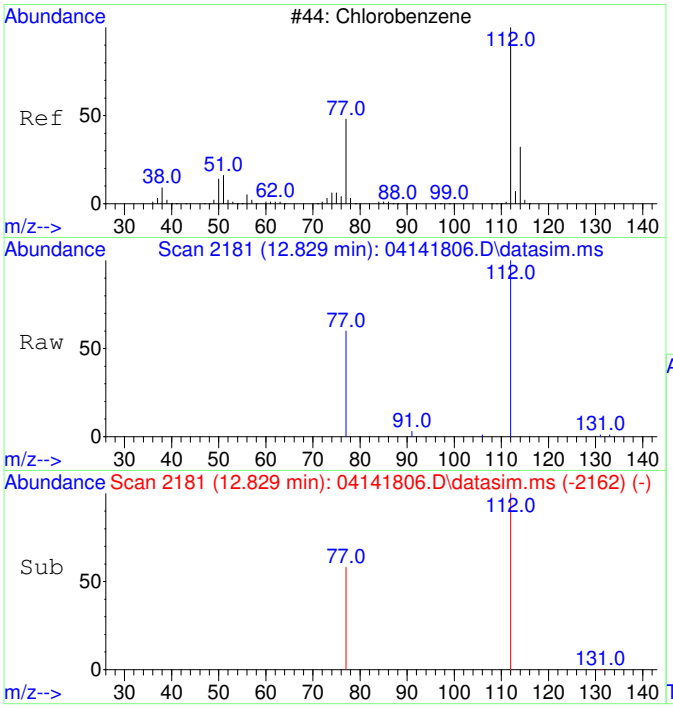


#15
Tetrachloroethene
Concen: 957.44 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:166 Resp: 7172

Ion	Ratio	Lower	Upper
166	100		
164	78.3	48.0	108.0

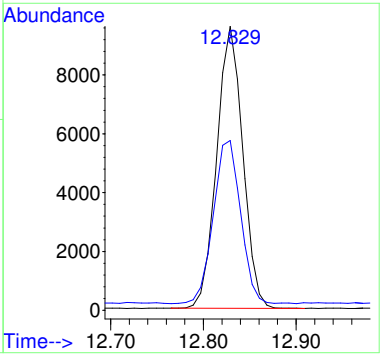


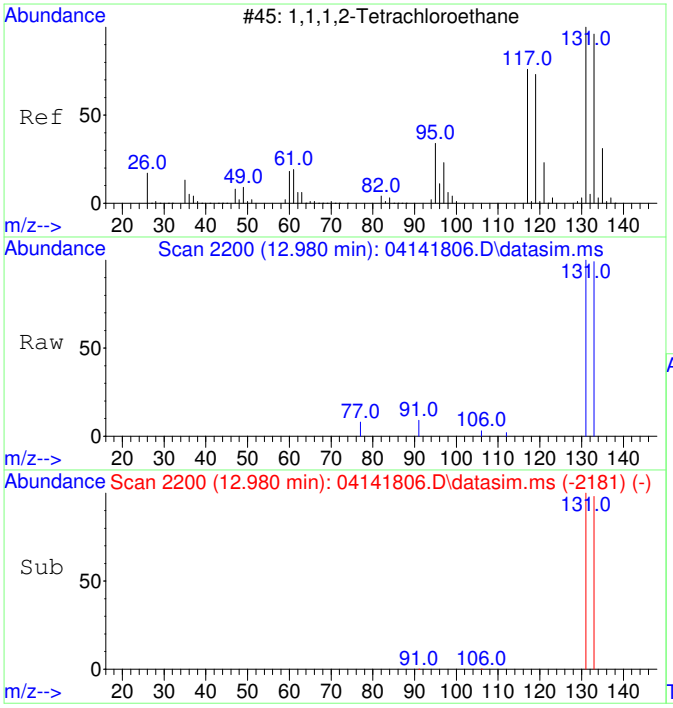


#16
Chlorobenzene
Concen: 1039.60 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:112 Resp: 18703

Ion	Ratio	Lower	Upper
112	100		
77	60.4	29.4	89.4

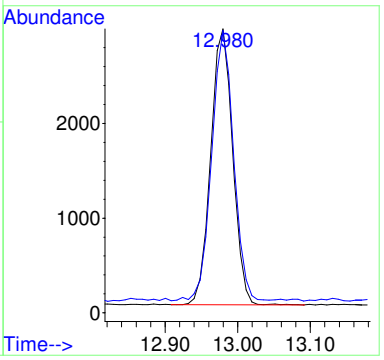


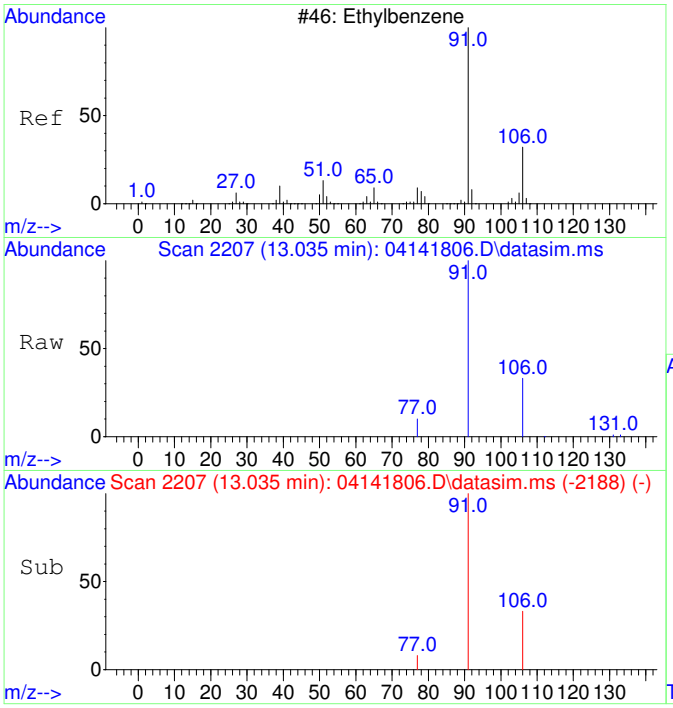


#17
1,1,1,2-Tetrachloroethane
Concen: 1093.05 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:131 Resp: 6142

Ion	Ratio	Lower	Upper
131	100		
133	97.0	65.1	125.1

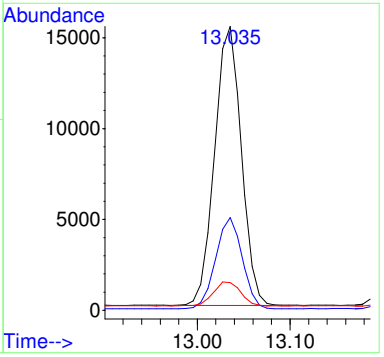


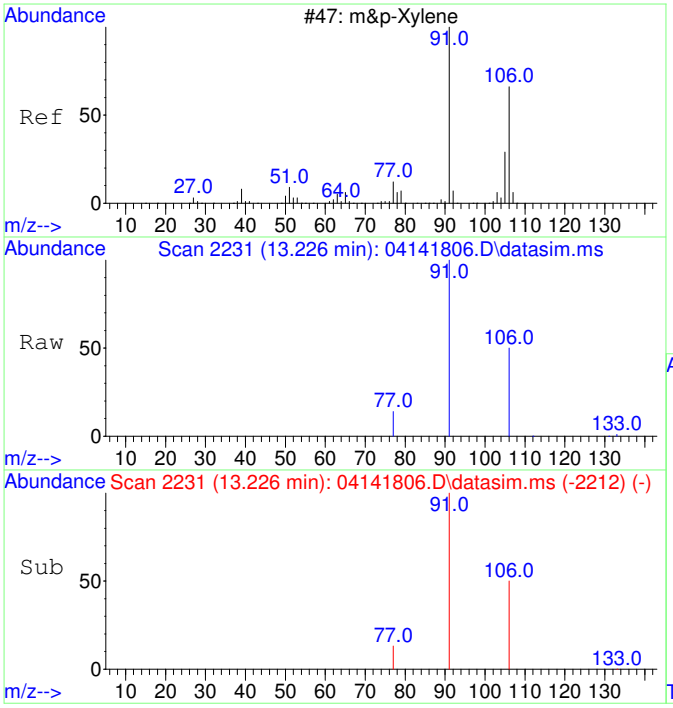


#18
Ethylbenzene
Concen: 1004.77 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 30762

Ion	Ratio	Lower	Upper
91	100		
106	32.5	1.8	61.8
77	8.9	0.0	38.7

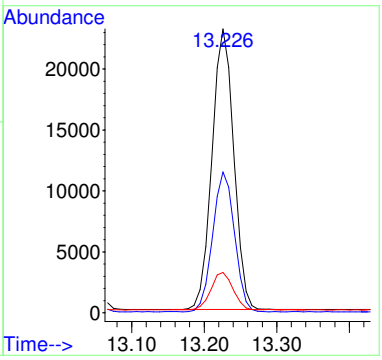


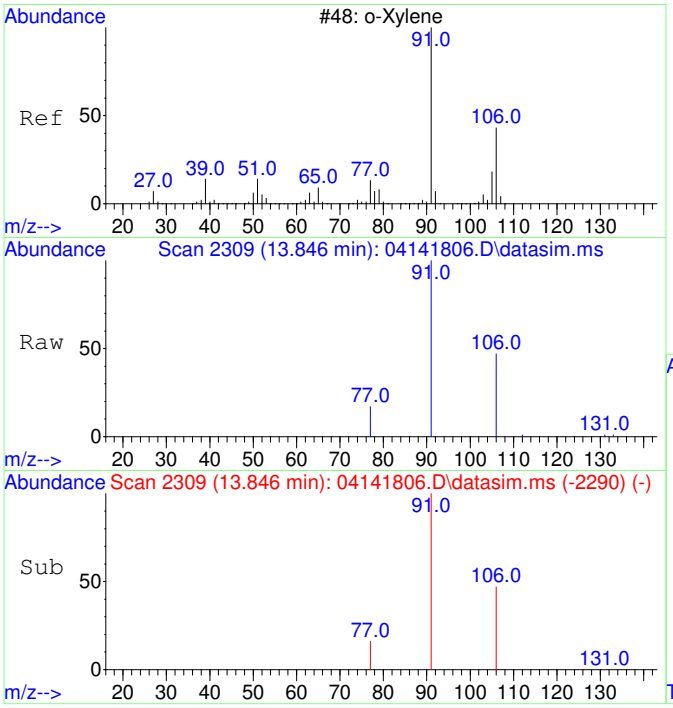


#19
m&p-Xylene
Concen: 2020.76 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 48124

Ion	Ratio	Lower	Upper
91	100		
106	49.8	20.0	80.0
77	13.4	0.0	43.4

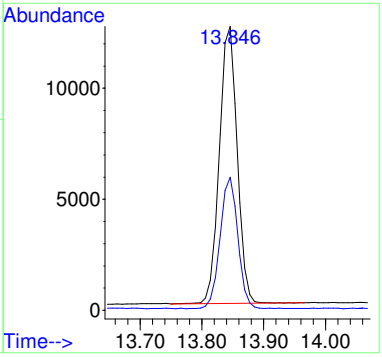


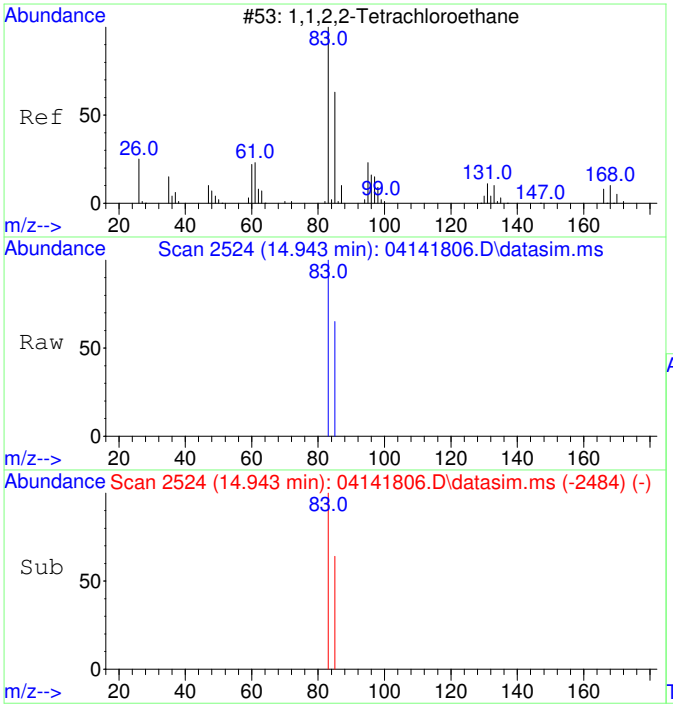


#20
o-Xylene
Concen: 991.03 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 24994

Ion	Ratio	Lower	Upper
91	100		
106	47.1	16.9	76.9

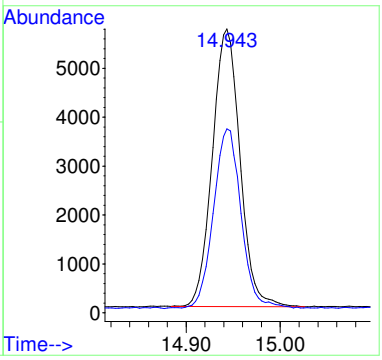


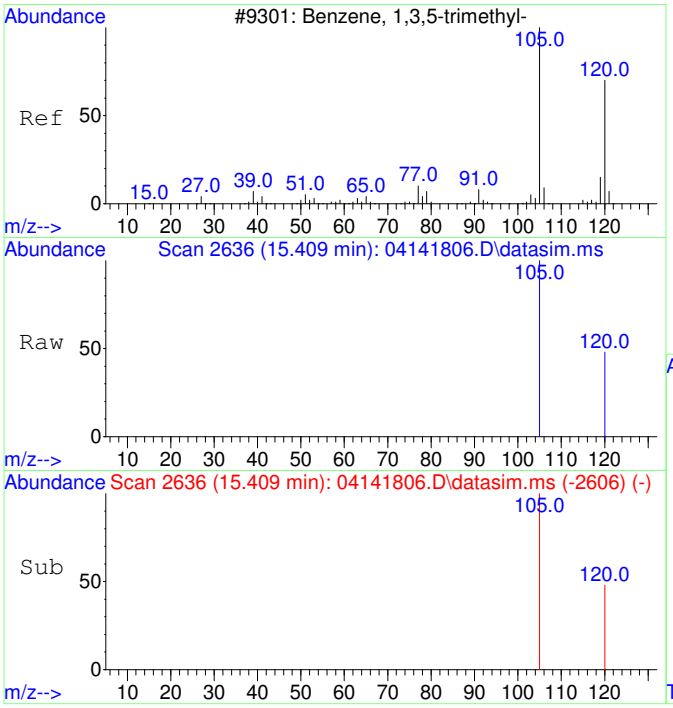


#21
1,1,2,2-Tetrachloroethane
Concen: 956.91 ug/L
RT: 14.943 min Scan# 2524
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 83 Resp: 11577

Ion	Ratio	Lower	Upper
83	100		
85	64.0	34.3	94.3

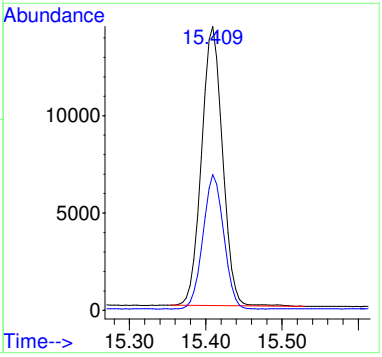


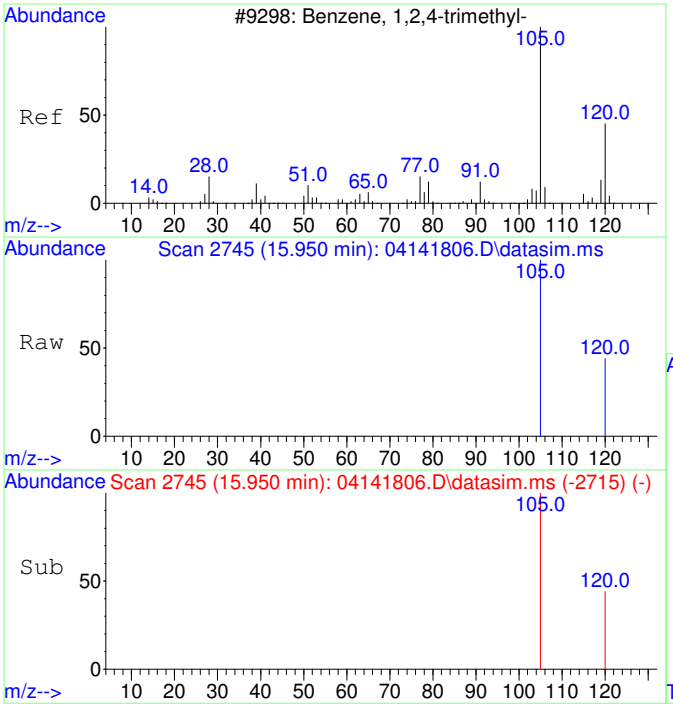


#22
1,3,5-Trimethylbenzene
Concen: 1018.92 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:105 Resp: 27391

Ion	Ratio	Lower	Upper
105	100		
120	47.6	18.1	78.1

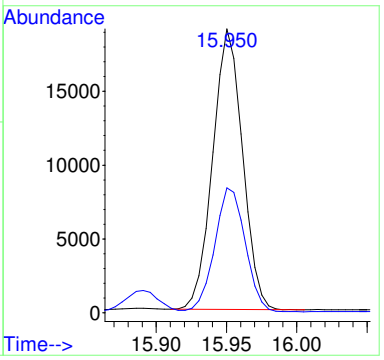


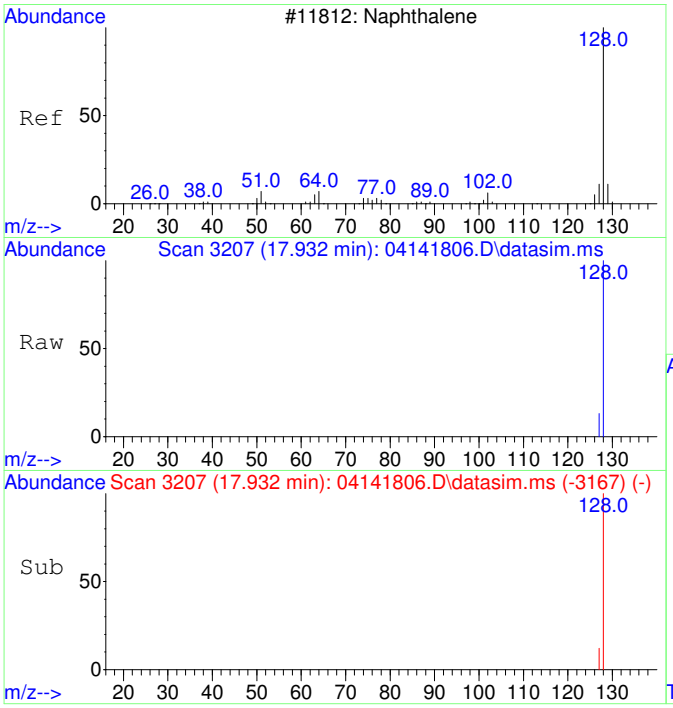


#23
1,2,4-Trimethylbenzene
Concen: 1056.48 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:105 Resp: 27979

Ion	Ratio	Lower	Upper
105	100		
120	44.3	14.5	74.5

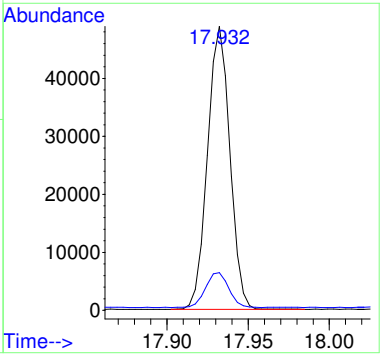


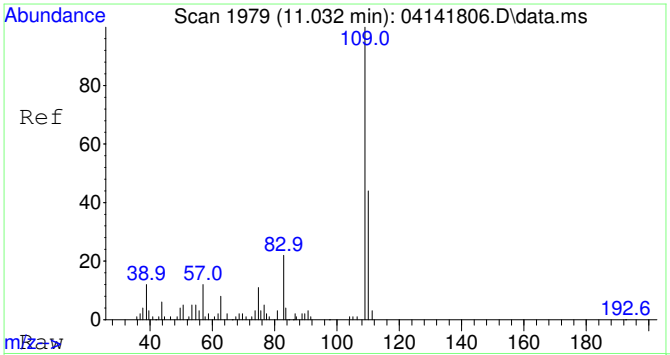


#24
Naphthalene
Concen: 1124.38 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:128 Resp: 46780

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.7

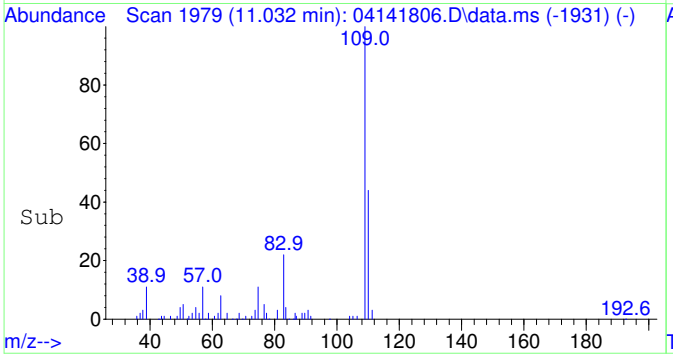


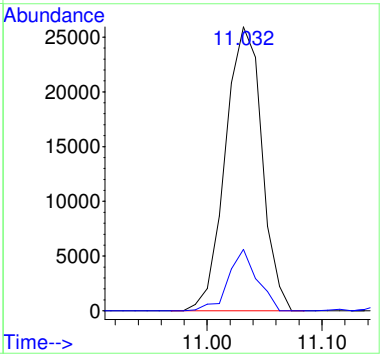


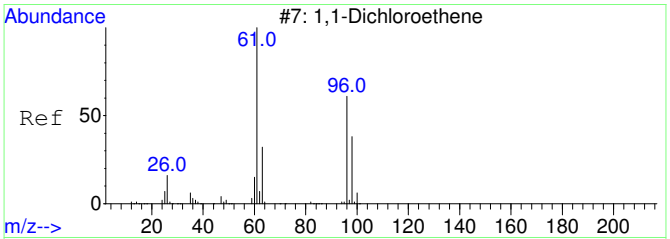
#25
2-Fluorotoluene SCAN
Concen: 3954.03 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

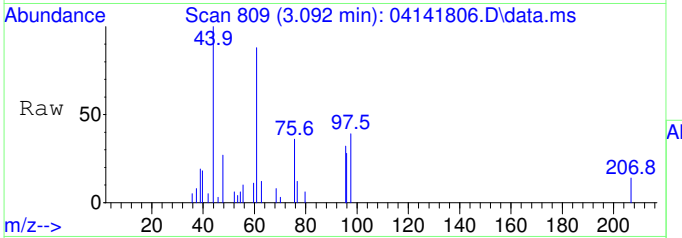
Tgt Ion:109 Resp: 57405

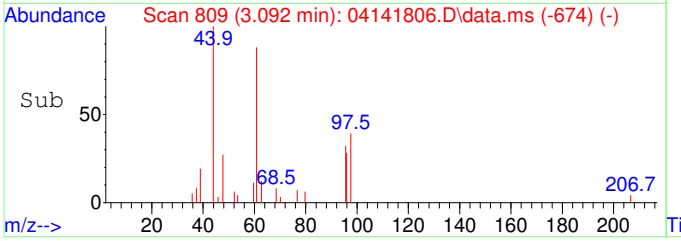
Ion	Ratio	Lower	Upper
109	100		
83	17.0	0.0	49.2







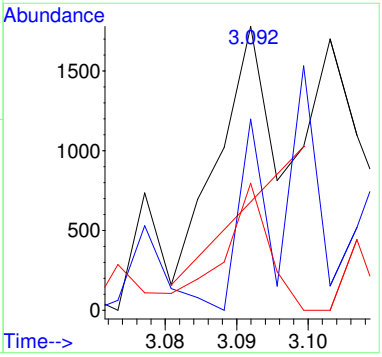


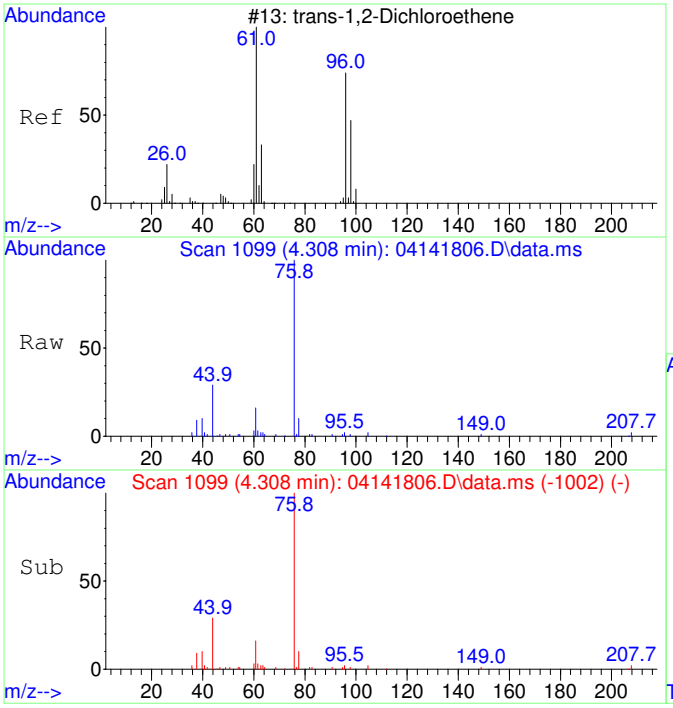


#26
1,1-Dichloroethene SCAN
Concen: 147.95 ug/L
RT: 3.092 min Scan# 809
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 565

Ion	Ratio	Lower	Upper
61	100		
96	47.3	21.6	81.6
98	50.4	7.5	67.5

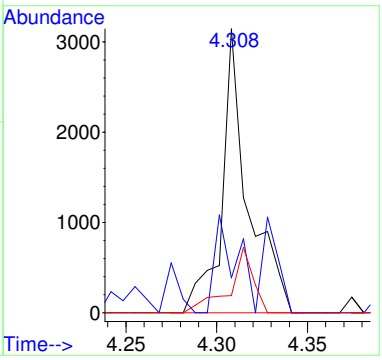


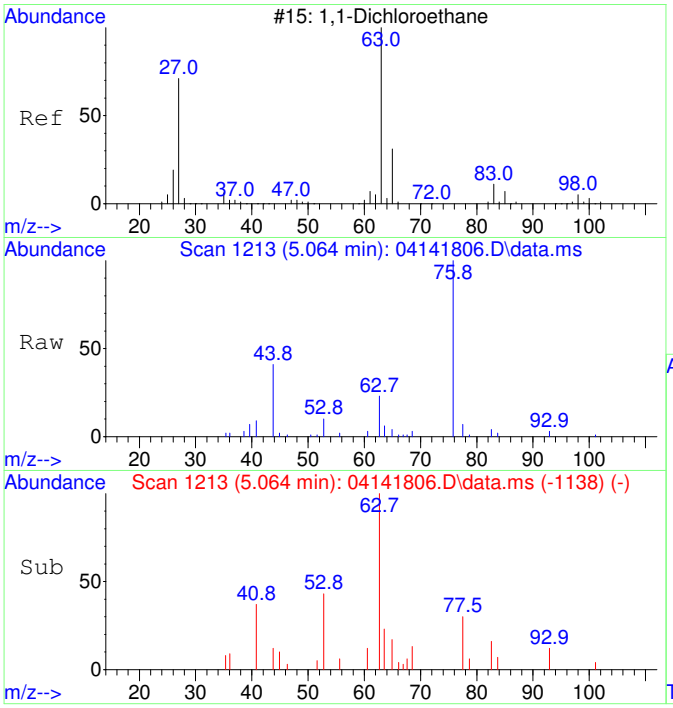


#27
trans-1,2-Dichloroethene SCAN
Concen: 758.02 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 3155

Ion	Ratio	Lower	Upper
61	100		
96	28.9	51.8	111.8#
98	21.0	22.7	82.7#

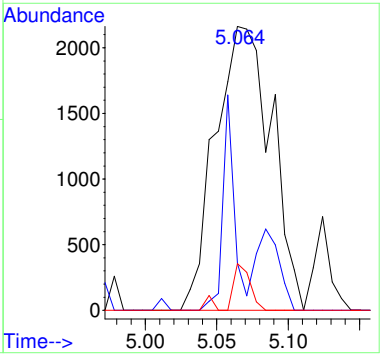


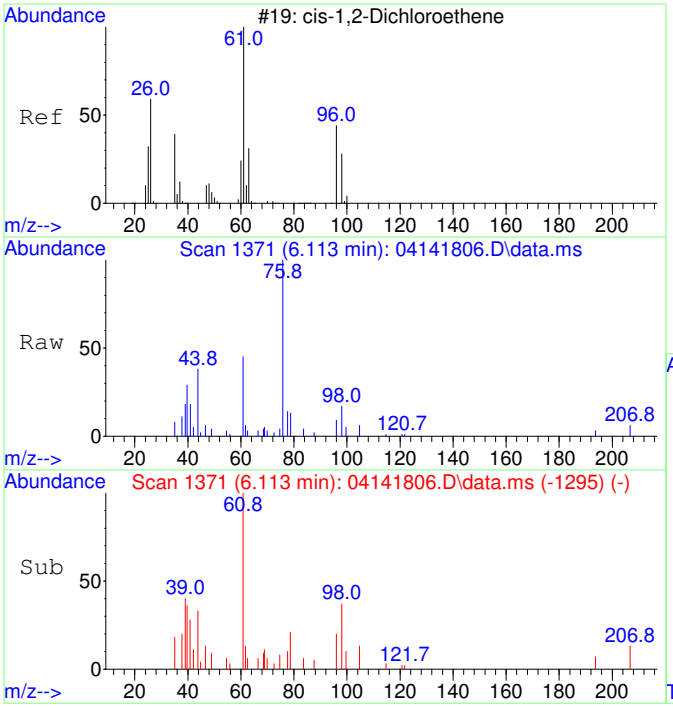


#28
1,1-Dichloroethane SCAN
Concen: 1256.03 ug/L
RT: 5.064 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 63 Resp: 5948

Ion	Ratio	Lower	Upper
63	100		
65	13.6	2.2	62.2
83	5.5	0.0	38.2

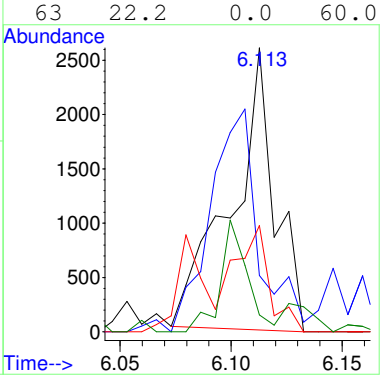


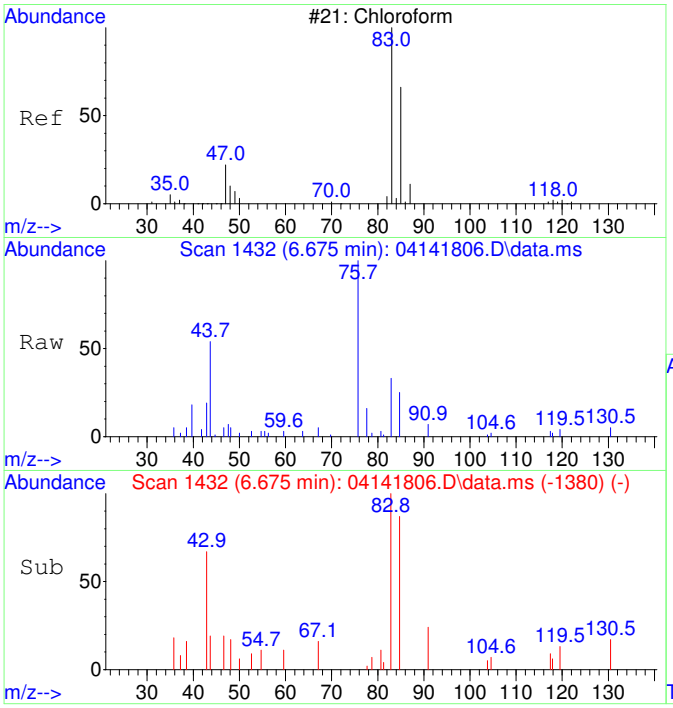


#29
cis-1,2-Dichloroethene SCAN
Concen: 760.33 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.006 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 61 Resp: 3561

Ion	Ratio	Lower	Upper
61	100		
96	82.4	49.4	109.4
98	23.2	9.5	69.5
63	22.2	0.0	60.0

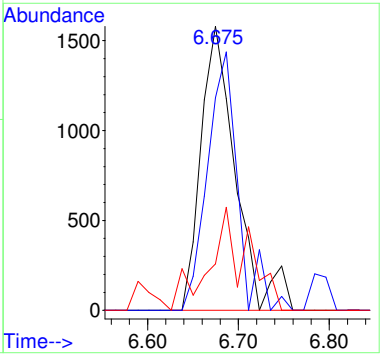


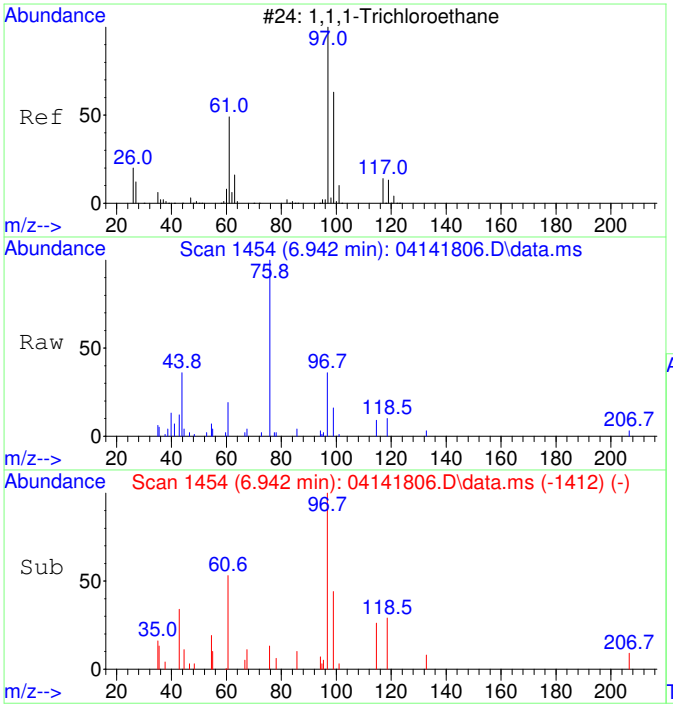


#30
Chloroform SCAN
Concen: 855.20 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 83 Resp: 4209

Ion	Ratio	Lower	Upper
83	100		
85	79.5	47.8	107.8
47	40.1	8.2	68.2

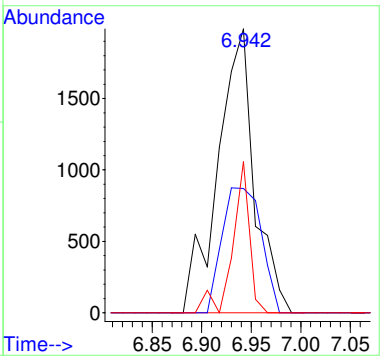


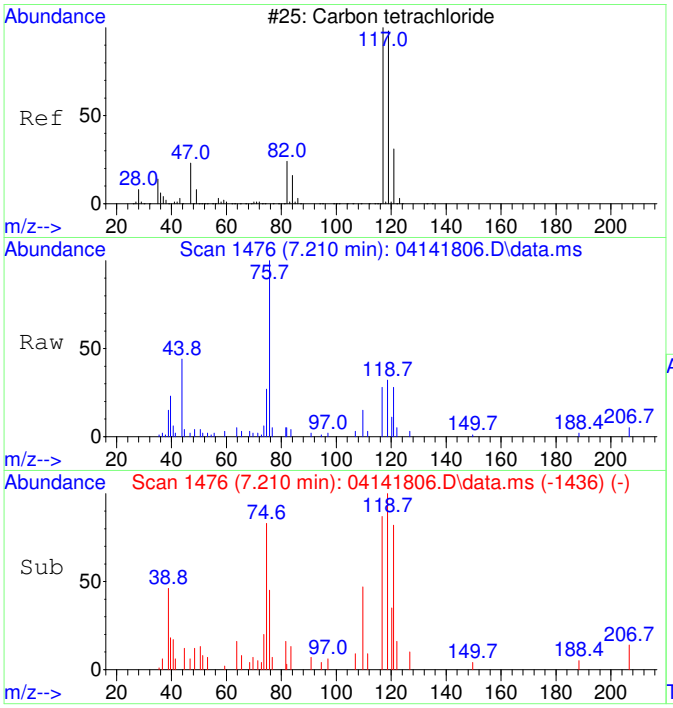


#31
1,1,1-Trichloroethane SCAN
Concen: 1096.03 ug/L
RT: 6.942 min Scan# 1454
Delta R.T. 0.012 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 97 Resp: 5118

Ion	Ratio	Lower	Upper
97	100		
99	47.2	18.3	78.3
61	24.1	16.3	76.3

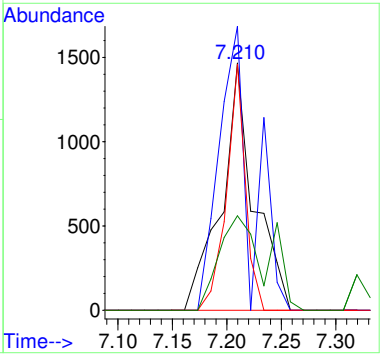


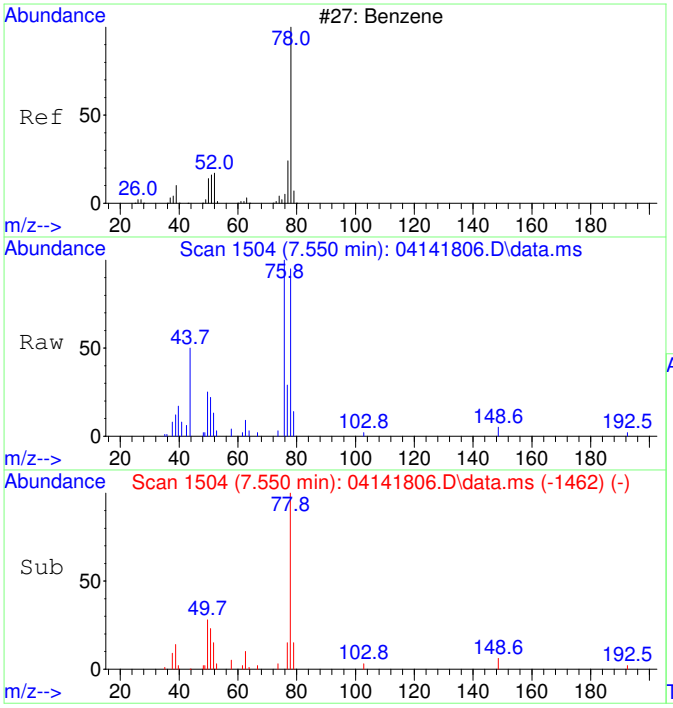


#32
Carbon tetrachloride SCAN
Concen: 894.54 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:117 Resp: 3083

Ion	Ratio	Lower	Upper
117	100		
119	113.1	54.4	114.4
121	57.0	0.0	53.0#
82	55.5	7.9	67.9

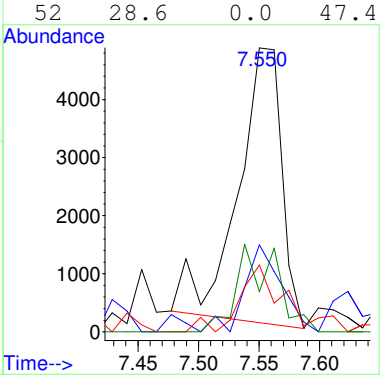


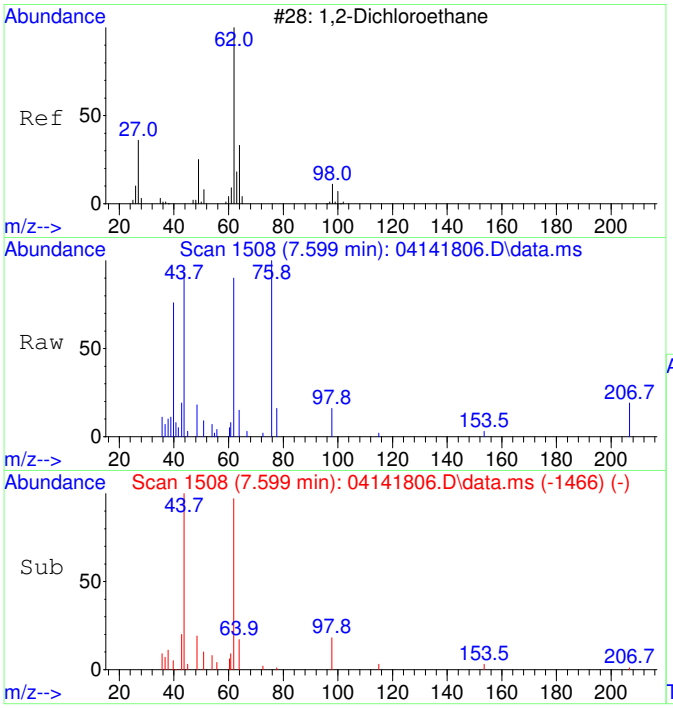


#33
Benzene SCAN
Concen: 897.72 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 78 Resp: 11939

Ion	Ratio	Lower	Upper
78	100		
77	26.5	5.4	65.4
51	27.2	0.0	47.2
52	28.6	0.0	47.4

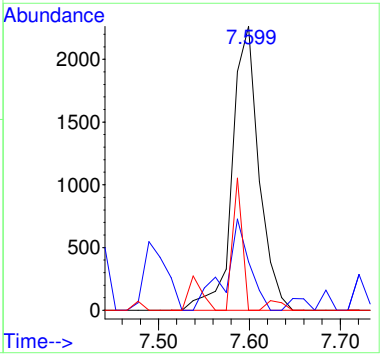


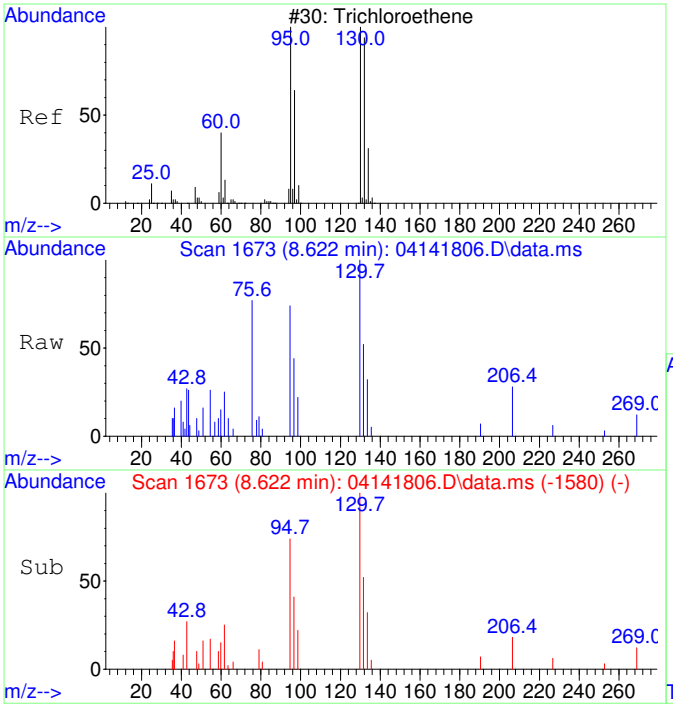


#34
1,2-Dichloroethane SCAN
Concen: 920.49 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 62 Resp: 4632

Ion	Ratio	Lower	Upper
62	100		
64	29.3	4.4	64.4
49	16.6	1.2	61.2

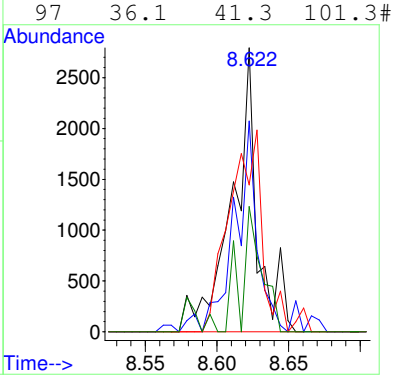


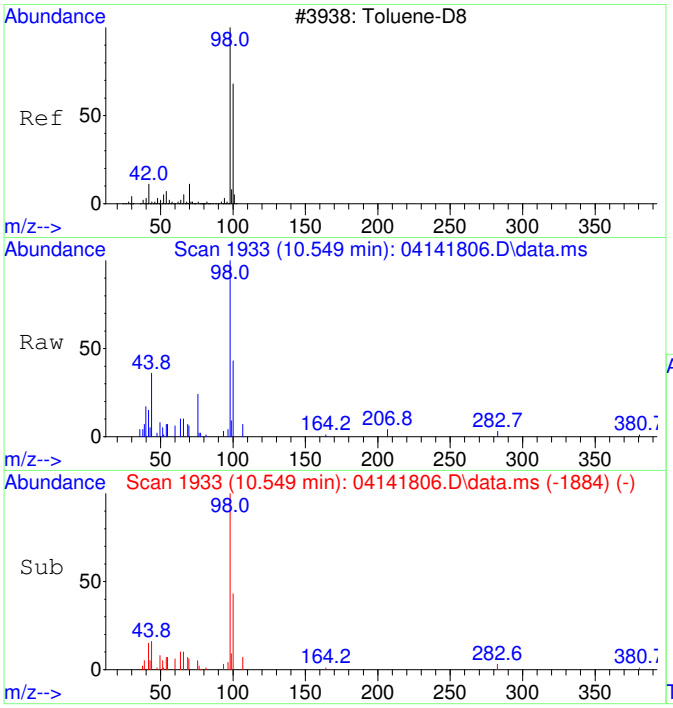


#35
Trichloroethene SCAN
Concen: 1237.85 ug/L
RT: 8.622 min Scan# 1673
Delta R.T. 0.005 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:130 Resp: 3427

Ion	Ratio	Lower	Upper
130	100		
95	68.3	71.3	131.3#
132	85.9	75.1	135.1
97	36.1	41.3	101.3#

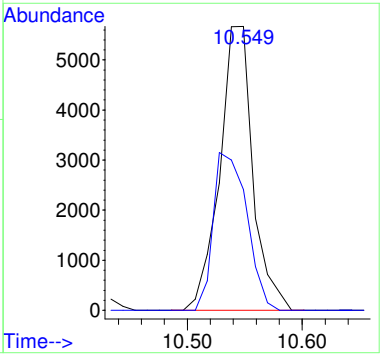


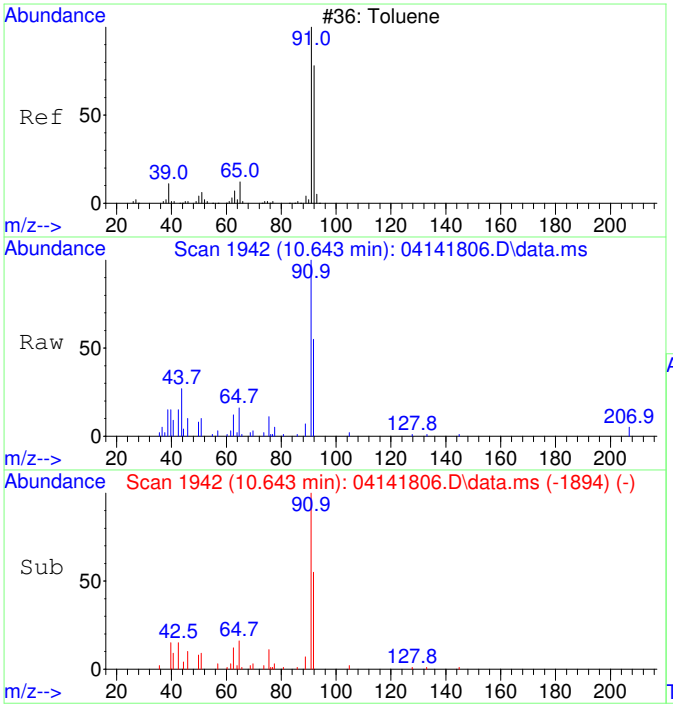


#36
Toluene-d8 SCAN
Concen: 994.31 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 98 Resp: 11415

Ion	Ratio	Lower	Upper
98	100		
100	0.0	37.3	97.3#

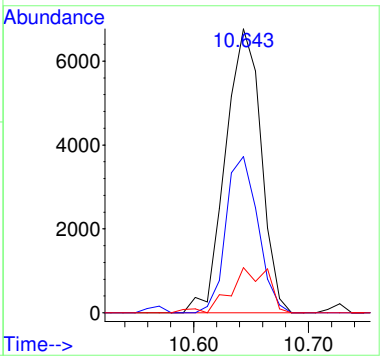


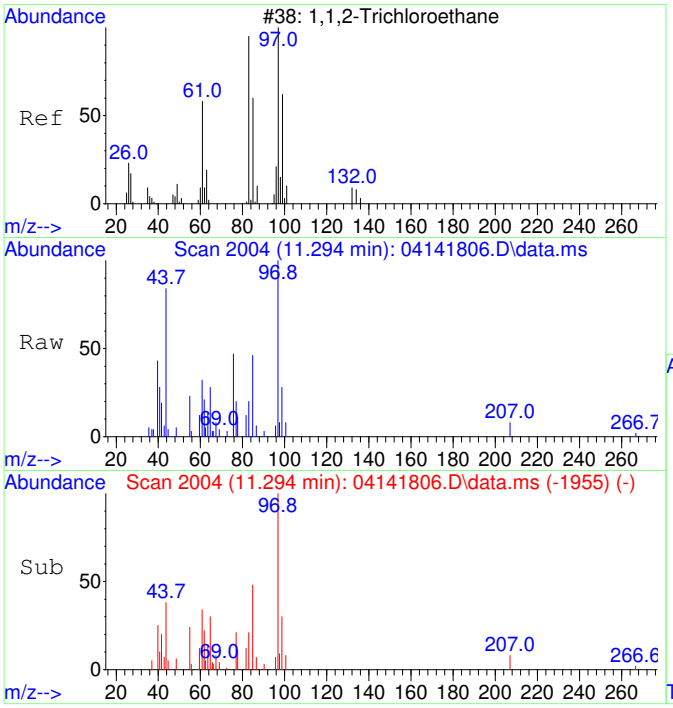


#37
Toluene SCAN
Concen: 926.65 ug/L
RT: 10.643 min Scan# 1942
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 14598

Ion	Ratio	Lower	Upper
91	100		
92	49.5	39.1	99.1
65	17.2	0.0	43.8

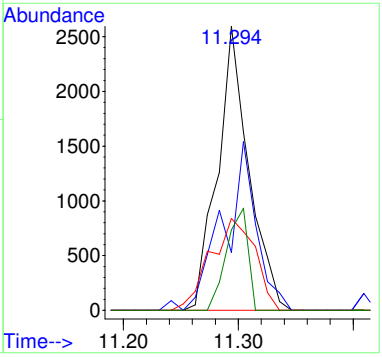


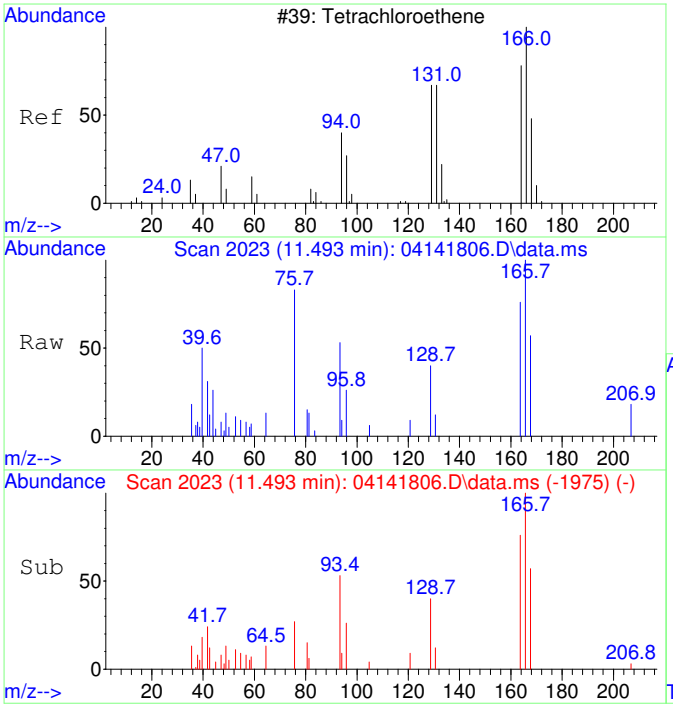


#38
1,1,2-Trichloroethane SCAN
Concen: 1315.10 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.010 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 97 Resp: 4932

Ion	Ratio	Lower	Upper
97	100		
83	62.6	47.4	107.4
61	45.7	29.7	89.7
99	24.6	26.5	86.5#

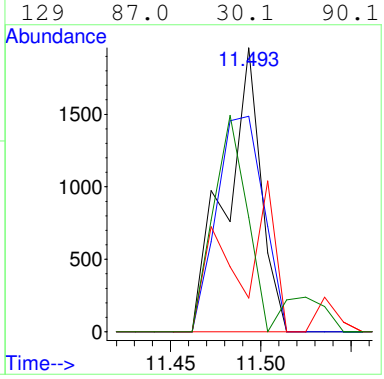


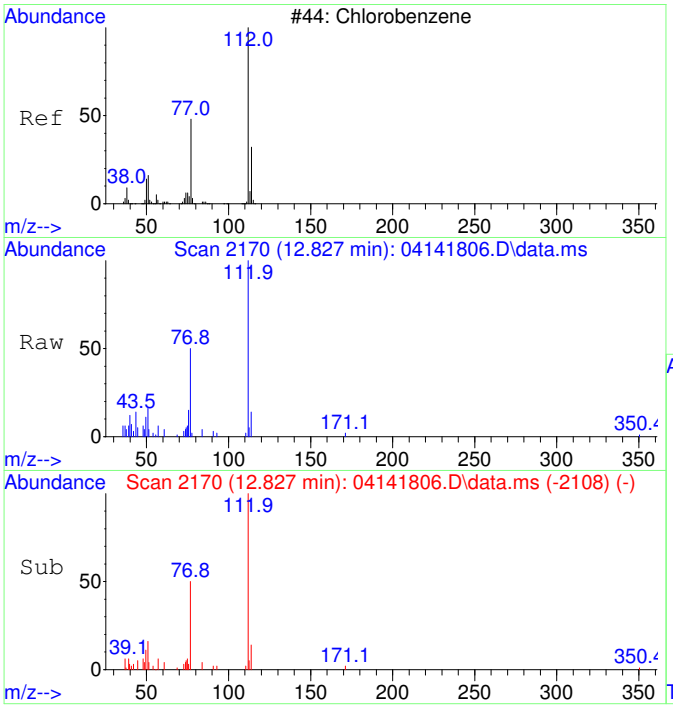


#39
Tetrachloroethene SCAN
Concen: 859.99 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:166 Resp: 2667

Ion	Ratio	Lower	Upper
166	100		
164	101.3	49.8	109.8
131	0.0	42.0	102.0#
129	87.0	30.1	90.1

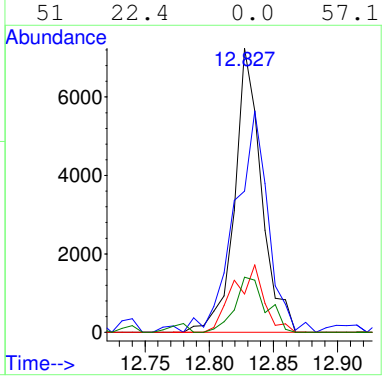


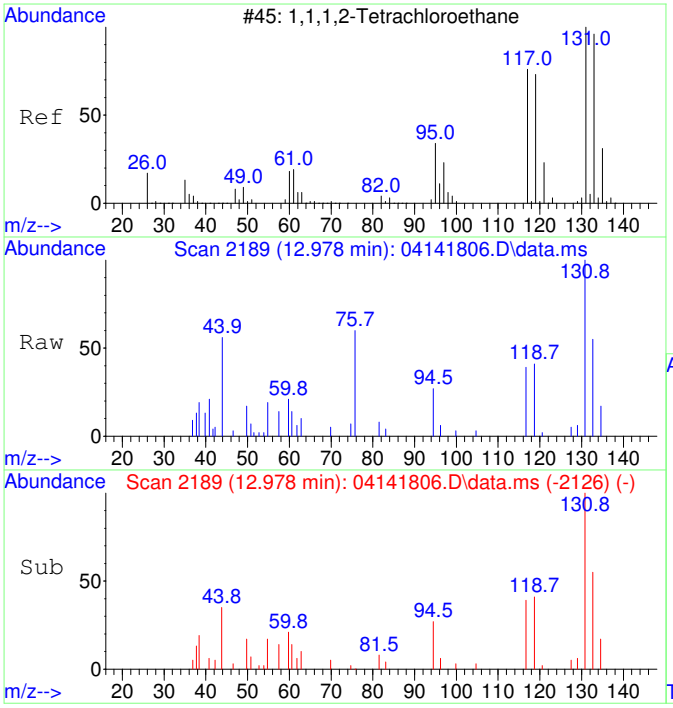


#40
Chlorobenzene SCAN
Concen: 1028.82 ug/L
RT: 12.827 min Scan# 2170
Delta R.T. -0.008 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:112 Resp: 10525

Ion	Ratio	Lower	Upper
112	100		
77	97.8	39.7	99.7
114	27.1	1.2	61.2
51	22.4	0.0	57.1

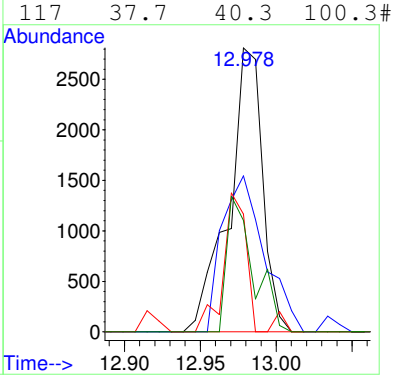


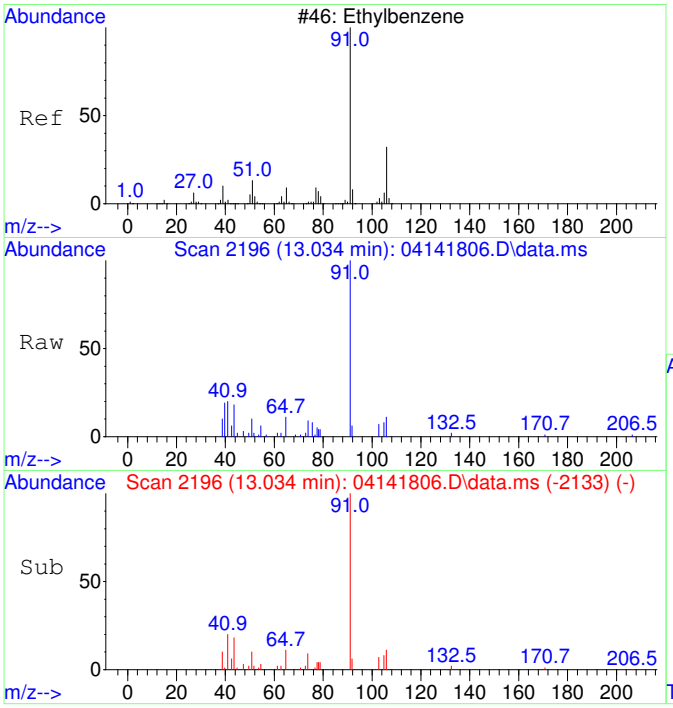


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 1272.58 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:131 Resp: 4371

Ion	Ratio	Lower	Upper
131	100		
133	68.7	78.7	138.7#
119	32.5	43.0	103.0#
117	37.7	40.3	100.3#

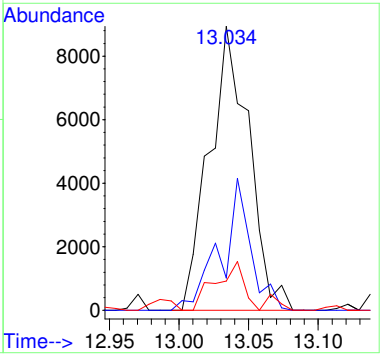


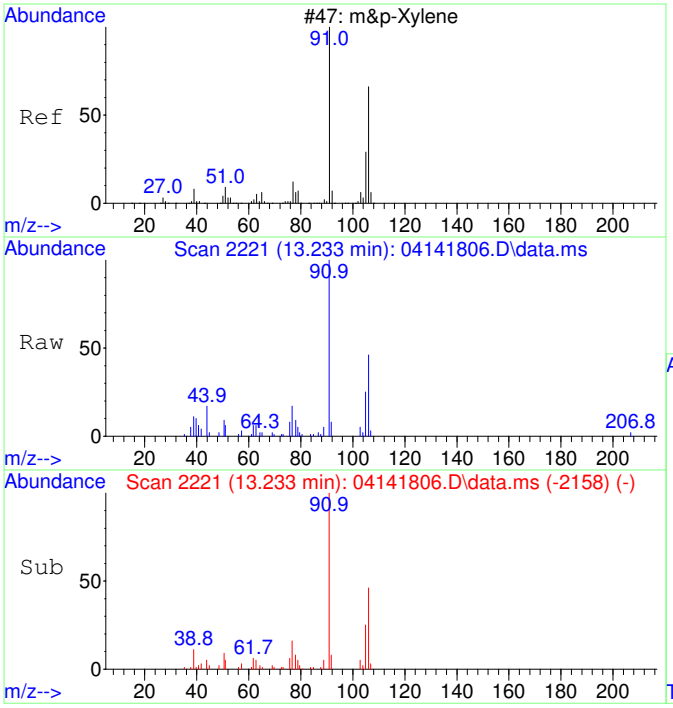


#42
Ethylbenzene SCAN
Concen: 1084.51 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 17712

Ion	Ratio	Lower	Upper
91	100		
106	34.7	1.8	61.8
51	12.3	0.0	45.4

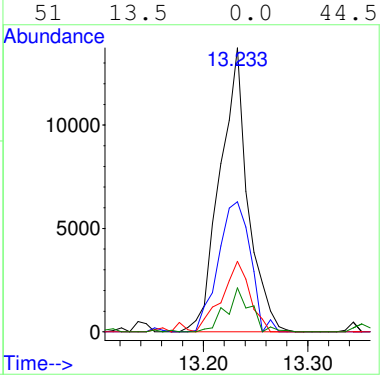


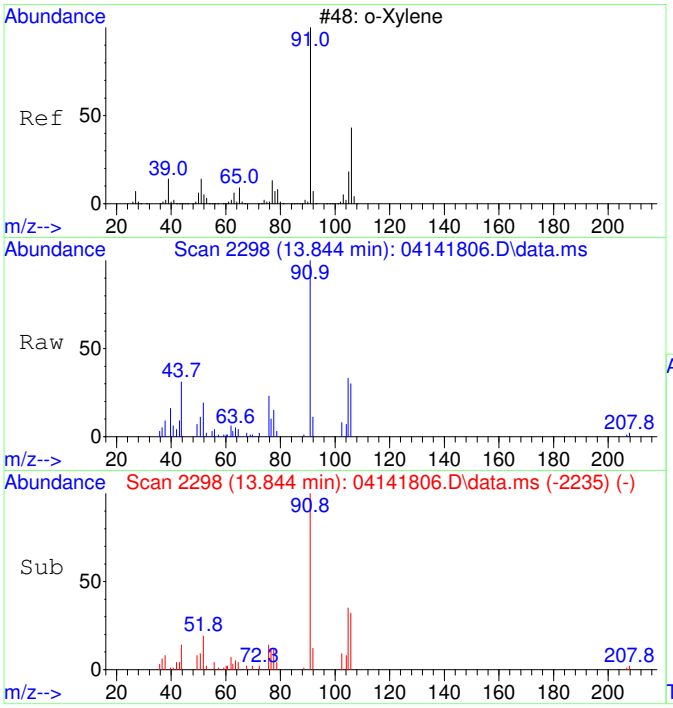


#43
m&p-Xylene SCAN
Concen: 937.02 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 25608

Ion	Ratio	Lower	Upper
91	100		
106	52.5	14.6	74.6
105	24.9	0.0	52.8
51	13.5	0.0	44.5

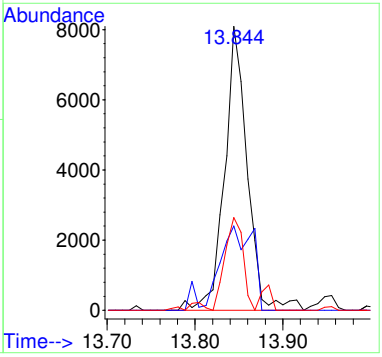


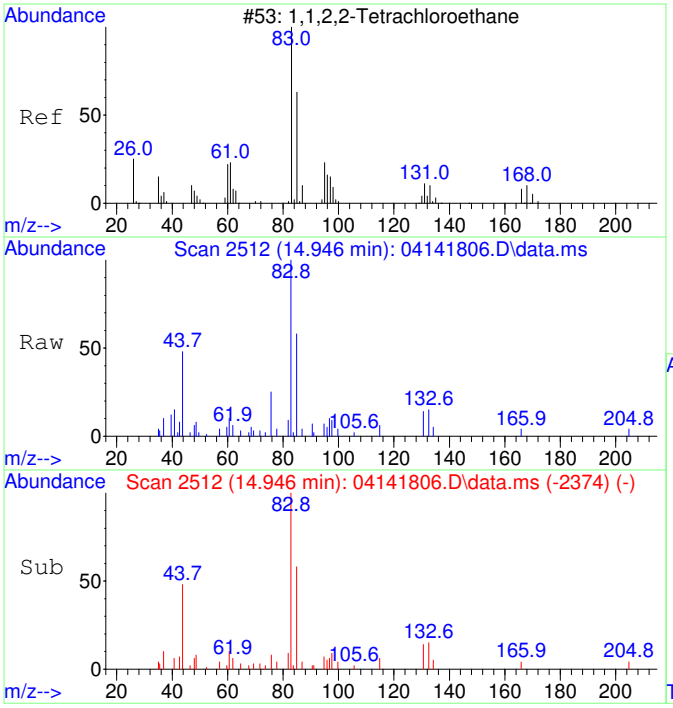


#44
o-Xylene SCAN
Concen: 946.84 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 91 Resp: 14547

Ion	Ratio	Lower	Upper
91	100		
106	40.5	20.2	80.2
105	26.1	0.0	54.9

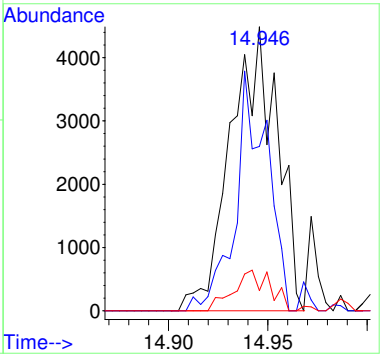


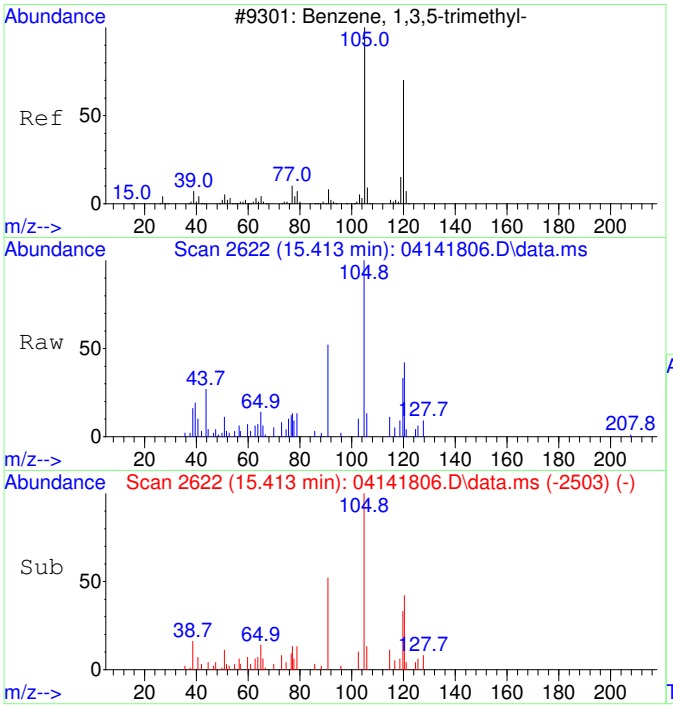


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 711584.61 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 83 Resp: 7311

Ion	Ratio	Lower	Upper
83	100		
85	57.4	32.4	92.4
95	11.2	0.0	41.2

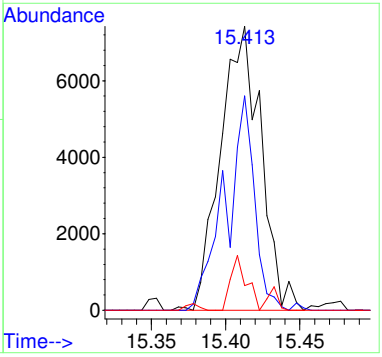


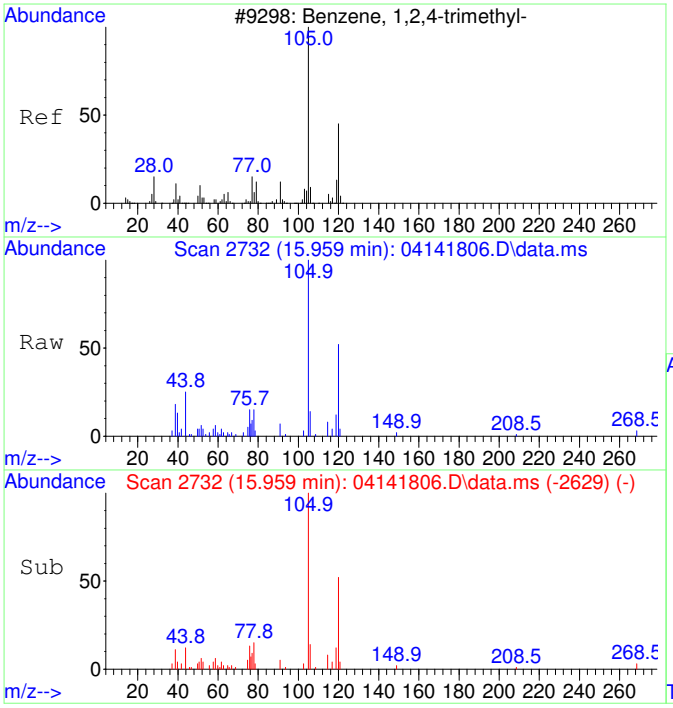


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1073.27 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.001 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:105 Resp: 14113

Ion	Ratio	Lower	Upper
105	100		
120	53.8	16.1	76.1
119	7.6	0.0	41.8

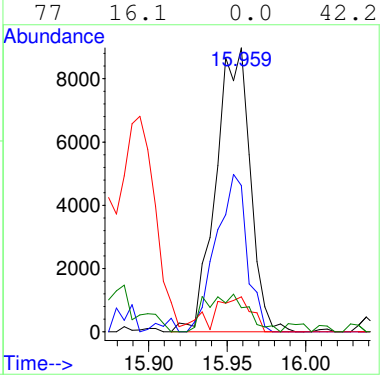


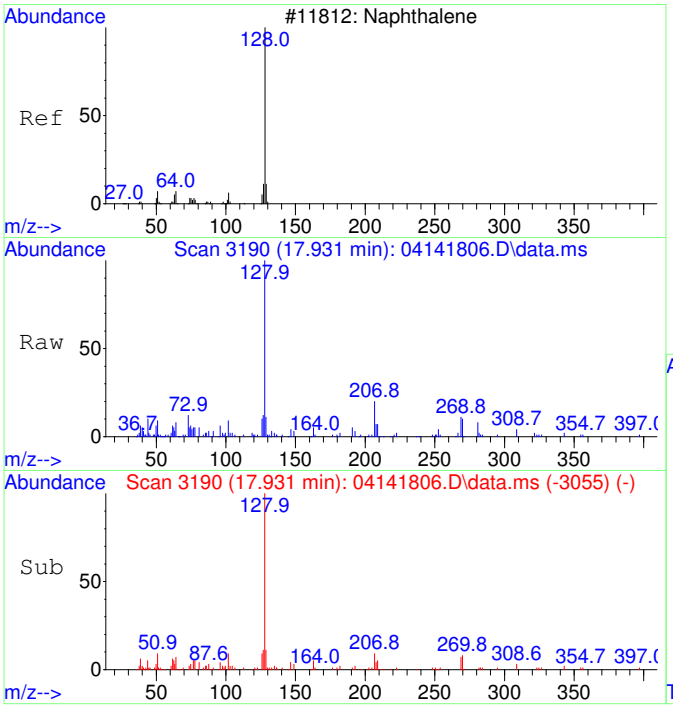


#47
1,2,4-Trimethylbenzene SCAN
Concen: 1017.90 ug/L
RT: 15.959 min Scan# 2732
Delta R.T. 0.011 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:105 Resp: 13626

Ion	Ratio	Lower	Upper
105	100		
120	49.8	12.8	72.8
119	11.0	0.0	42.5
77	16.1	0.0	42.2

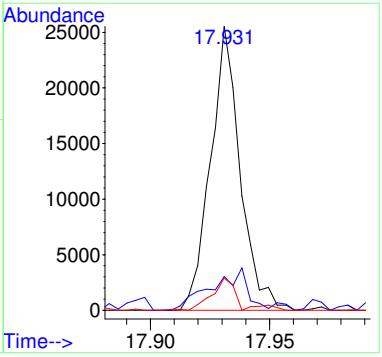


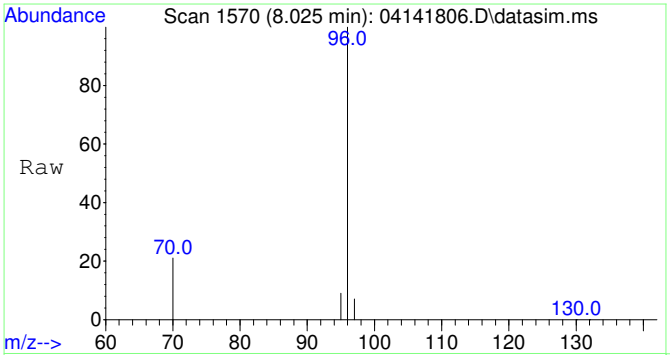


#48
Naphthalene SCAN
Concen: 1190.26 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion:128 Resp: 22134

Ion	Ratio	Lower	Upper
128	100		
127	17.0	0.0	45.2
129	7.5	0.0	42.0

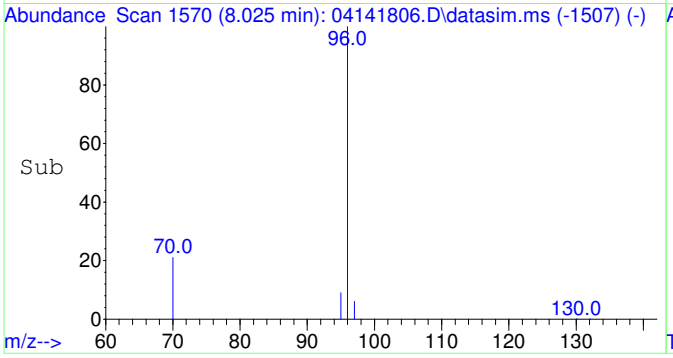


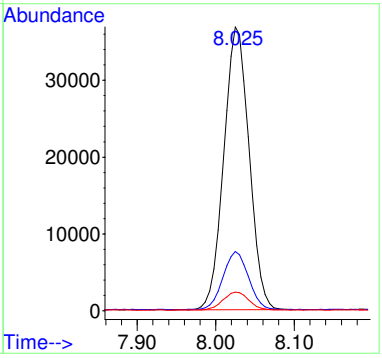


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. -0.000 min
Lab File: 04141806.D
Acq: 14 Apr 2018 12:50

Tgt Ion: 96 Resp: 82290

Ion	Ratio	Lower	Upper
96	100		
70	20.6	0.0	50.7
97	6.5	0.0	36.7





S18D063-CAL5

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141807.D
Acq On : 14 Apr 2018 13:14
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL5
Misc : 1745077 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 16 09:27:44 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

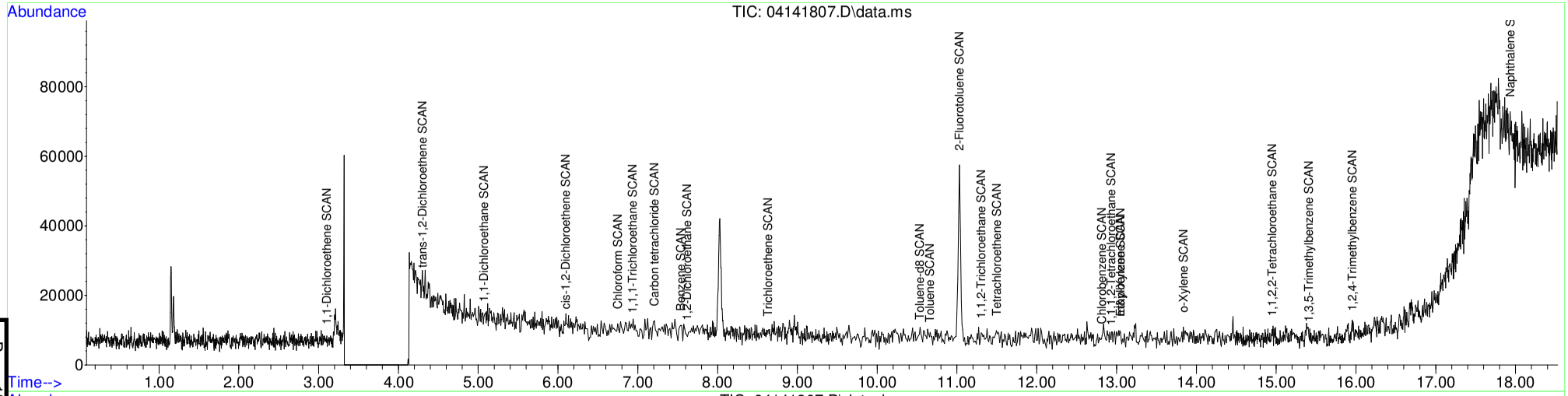
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	75985	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	59057	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	1959	159.13 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	3.18%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	1092	300.30 ug/L	94
3] trans-1,2-Dichloroethene	4.303	61	580	156.06 ug/L	98
4] 1,1-Dichloroethane	5.066	63	732	158.34 ug/L	90
5] cis-1,2-Dichloroethene	6.094	61	685	149.56 ug/L	92
6] Chloroform	6.676	83	799	156.02 ug/L	86
7] 1,1,1-Trichloroethane	6.932	97	807	166.10 ug/L	98
8] Carbon tetrachloride	7.211	117	708	158.53 ug/L	85
9] Benzene	7.540	78	2206	176.80 ug/L	93
10] 1,2-Dichloroethane	7.588	62	685	149.52 ug/L	77
11] Trichloroethene	8.613	130	520	158.58 ug/L	87
13] Toluene	10.634	91	2579	158.66 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	563	154.15 ug/L	97
15] Tetrachloroethene	11.495	166	678	144.85 ug/L	98
16] Chlorobenzene	12.829	112	1666	148.20 ug/L	98
17] 1,1,1,2-Tetrachloroethane	12.980	131	581	165.47 ug/L	91
18] Ethylbenzene	13.036	91	2721	142.23 ug/L	98
19] m&p-Xylene	13.226	91	4259	286.21 ug/L	97
20] o-Xylene	13.846	91	2237	141.95 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.944	83	1035	136.91 ug/L	99
22] 1,3,5-Trimethylbenzene	15.408	105	3021	179.85 ug/L	92
23] 1,2,4-Trimethylbenzene	15.949	105	2826	170.77 ug/L	100
24] Naphthalene	17.932	128	5115	196.75 ug/L	93
25) 2-Fluorotoluene SCAN	11.032	109	36593	4033.78 ug/L	91
26) 1,1-Dichloroethene SCAN	3.096	61	119	49.87 ug/L #	1
27) trans-1,2-Dichloroethe...	4.295	61	211	81.13 ug/L	76
28) 1,1-Dichloroethane SCAN	5.071	63	437	147.68 ug/L #	49
29) cis-1,2-Dichloroethene...	6.093	61	596	203.66 ug/L #	57
30) Chloroform SCAN	6.748	83	185	60.16 ug/L #	19
31) 1,1,1-Trichloroethane ...	6.930	97	309	105.90 ug/L #	1
32) Carbon tetrachloride SCAN	7.210	117	543	252.14 ug/L #	40
33) Benzene SCAN	7.539	78	2437	293.26 ug/L #	55
34) 1,2-Dichloroethane SCAN	7.611	62	243	77.28 ug/L #	42
35) Trichloroethene SCAN	8.628	130	139	80.35 ug/L #	1
36) Toluene-d8 SCAN	10.528	98	1307	182.20 ug/L #	16
37) Toluene SCAN	10.654	91	2136	216.99 ug/L #	64
38) 1,1,2-Trichloroethane ...	11.305	97	79	33.71 ug/L #	1
39) Tetrachloroethene SCAN	11.494	166	149	76.89 ug/L #	1
40) Chlorobenzene SCAN	12.812	112	925	144.70 ug/L #	35
41) 1,1,1,2-Tetrachloroeth...	12.931	131	235	109.50 ug/L #	20
42) Ethylbenzene SCAN	13.042	91	2707	265.26 ug/L	73
43) m&p-Xylene SCAN	13.042	91	2707	158.52 ug/L	62
44) o-Xylene SCAN	13.837	91	2123	221.15 ug/L #	47
45) 1,1,2,2-Tetrachloroeth...	14.946	83	609	94861.64 ug/L #	50
46) 1,3,5-Trimethylbenzene...	15.412	105	484	58.91 ug/L #	44
47) 1,2,4-Trimethylbenzene...	15.948	105	1251	149.56 ug/L #	56
48) Naphthalene SCAN	17.931	128	2420	208.27 ug/L #	74

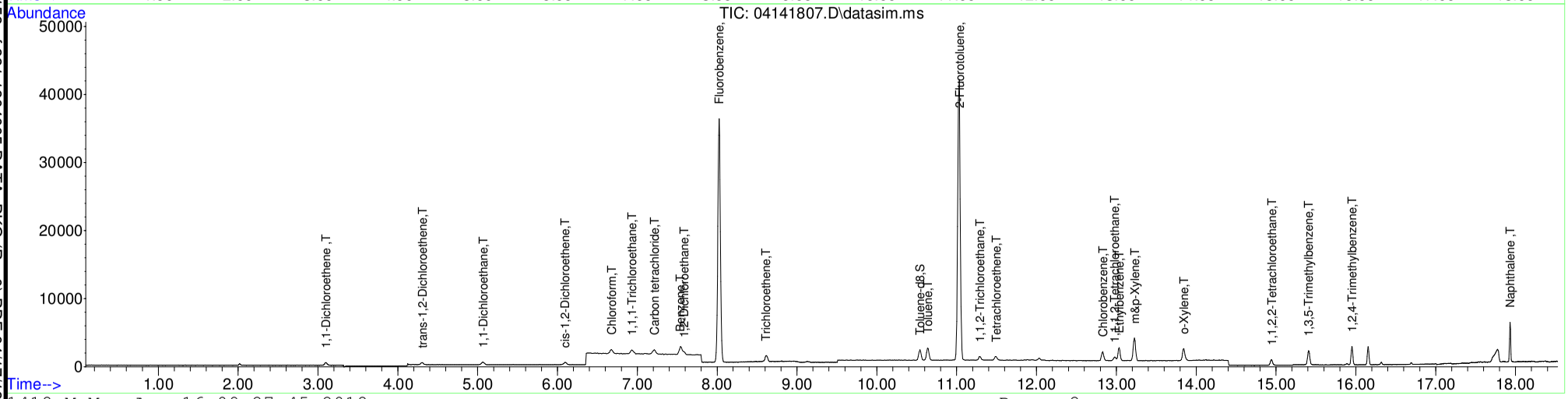
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141807.D
Acq On : 14 Apr 2018 13:14
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL5
Misc : 1745077 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 16 09:27:44 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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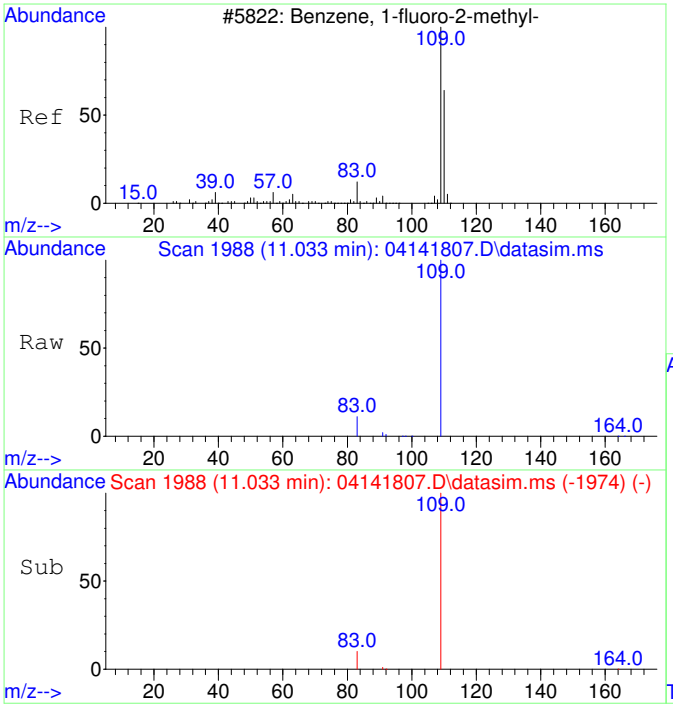
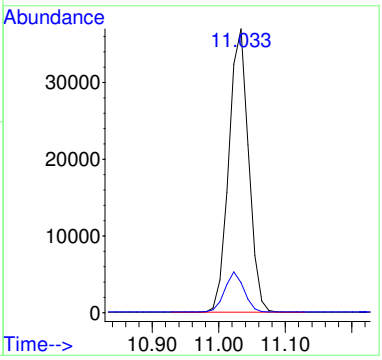
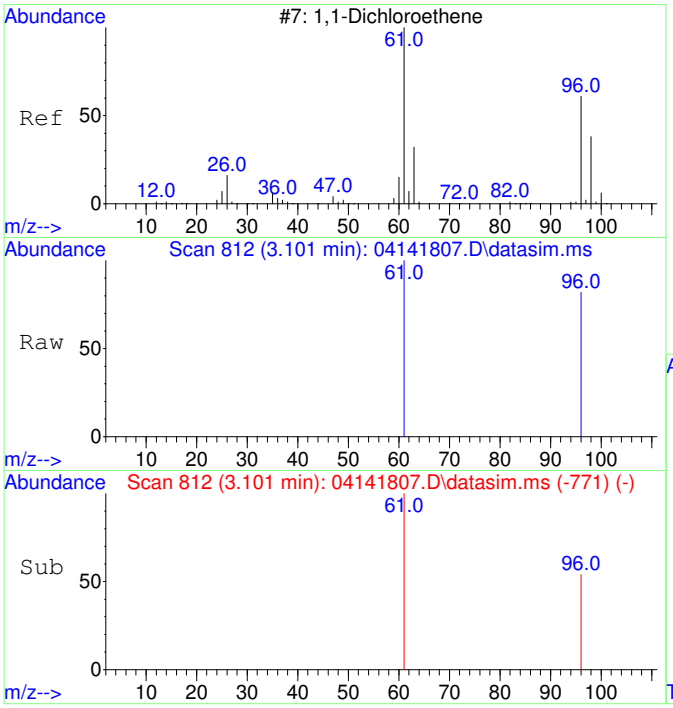


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:109 Resp: 75985

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

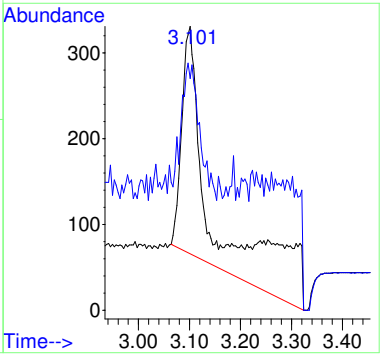




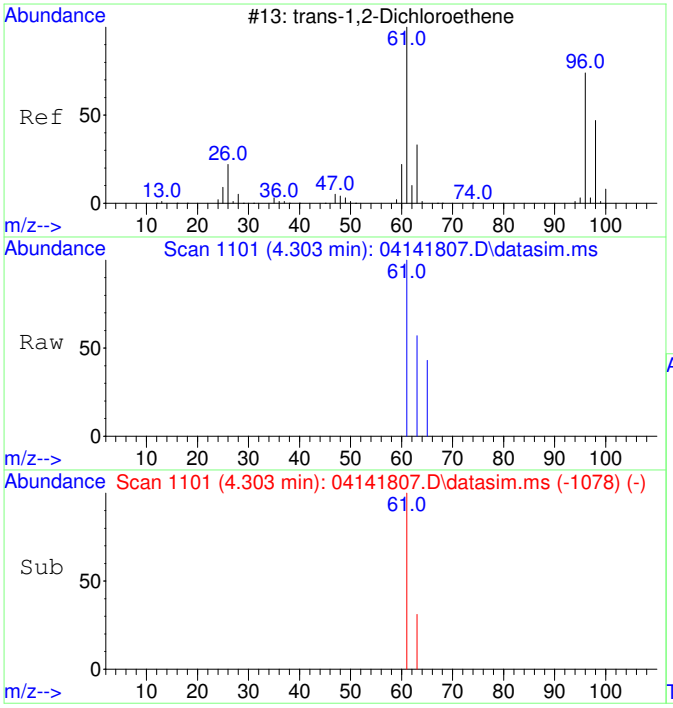
#2
1,1-Dichloroethene
Concen: 300.30 ug/L
RT: 3.101 min Scan# 812
Delta R.T. 0.004 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 1092

Ion	Ratio	Lower	Upper
61	100		
96	60.2	26.1	86.1



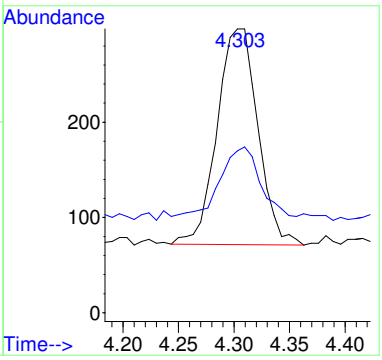
Before MI:
IMPROPER
BASELINE

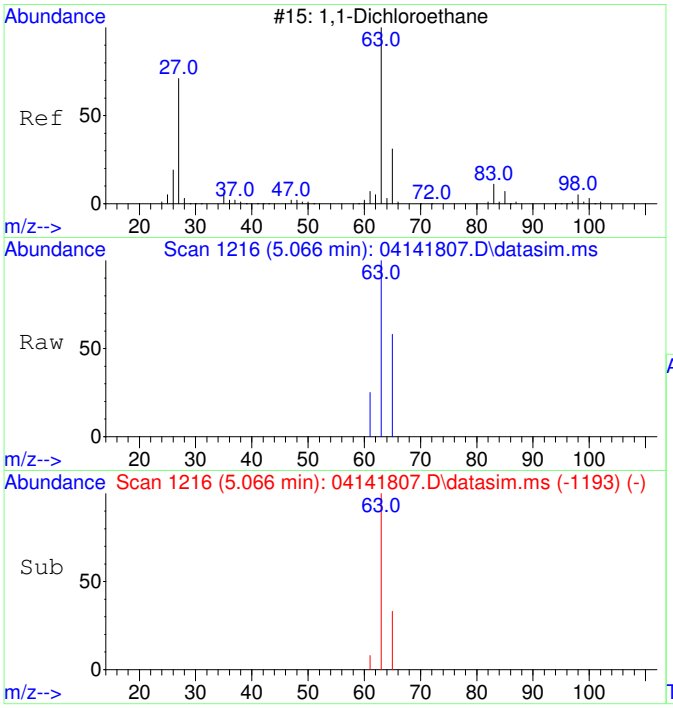


#3
trans-1,2-Dichloroethene
Concen: 156.06 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 580

Ion	Ratio	Lower	Upper
61	100		
63	30.7	2.0	62.0

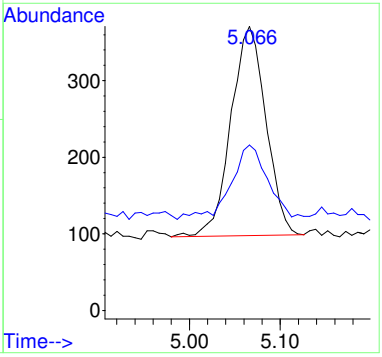


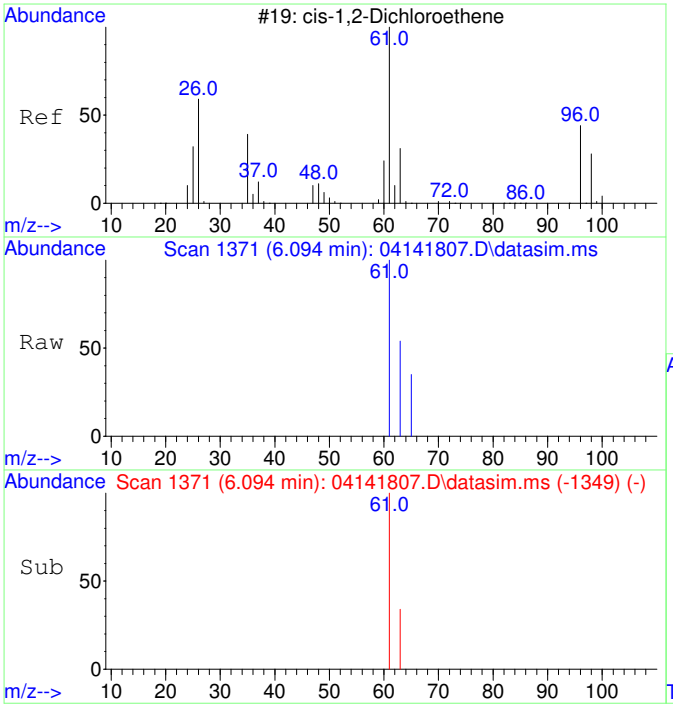


#4
1,1-Dichloroethane
Concen: 158.34 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 63 Resp: 732

Ion	Ratio	Lower	Upper
63	100		
65	37.6	1.8	61.8

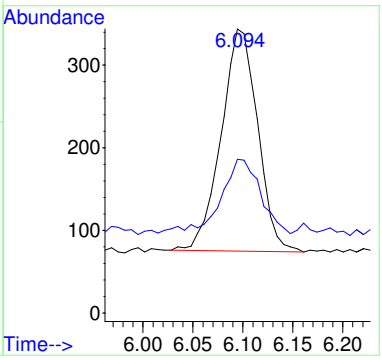


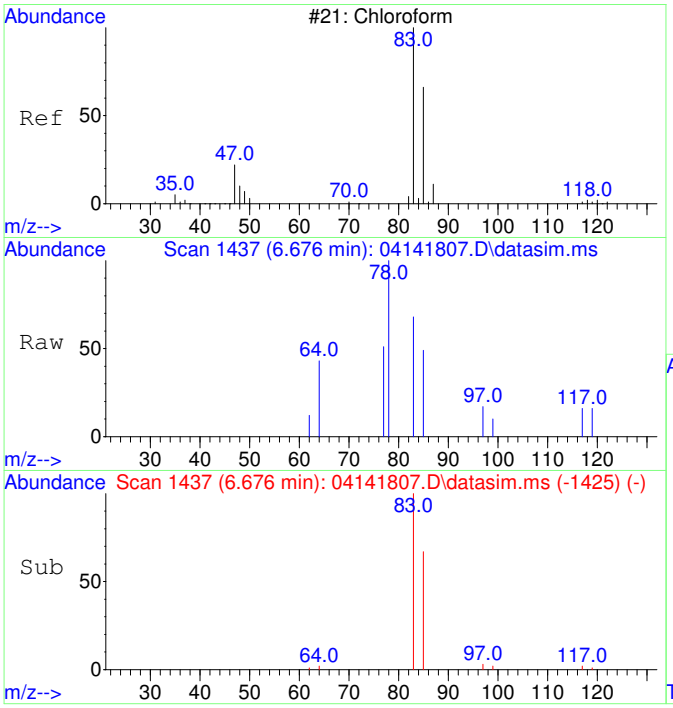


#5
cis-1,2-Dichloroethene
Concen: 149.56 ug/L
RT: 6.094 min Scan# 1371
Delta R.T. -0.007 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 685

Ion	Ratio	Lower	Upper
61	100		
63	36.5	2.0	62.0

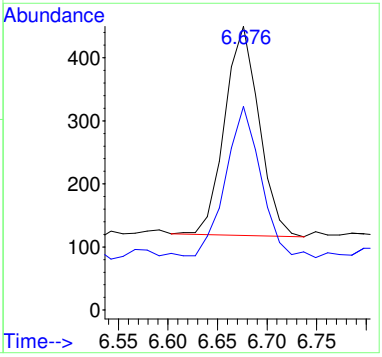


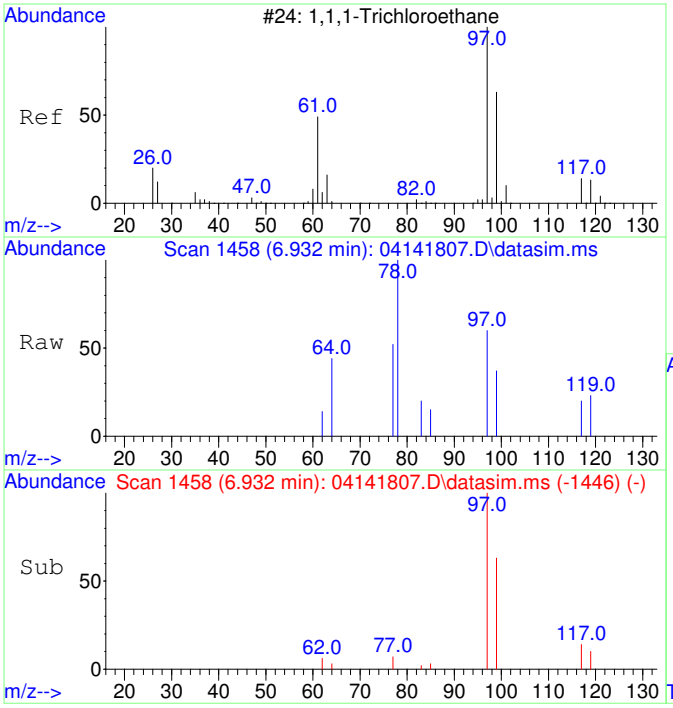


#6
Chloroform
Concen: 156.02 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 83 Resp: 799

Ion	Ratio	Lower	Upper
83	100		
85	74.8	34.2	94.2

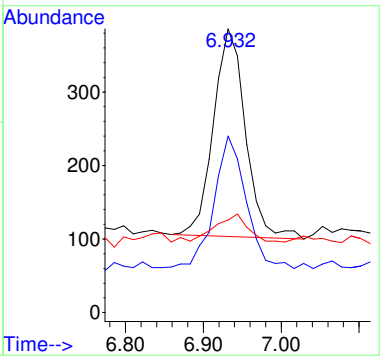


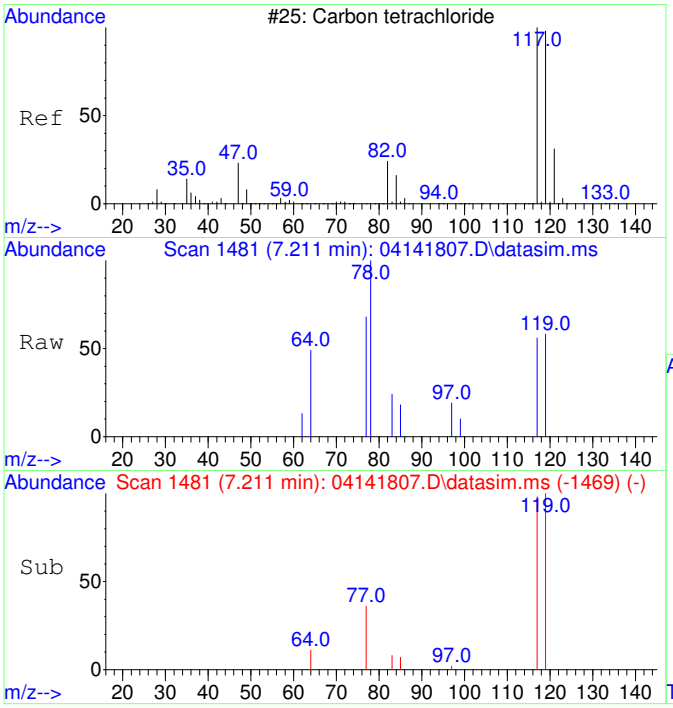


#7
1,1,1-Trichloroethane
Concen: 166.10 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 97 Resp: 807

Ion	Ratio	Lower	Upper
97	100		
99	63.1	34.5	94.5
117	13.3	0.0	42.6

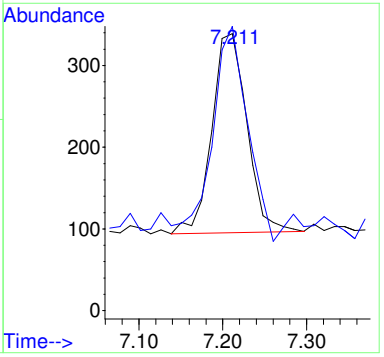


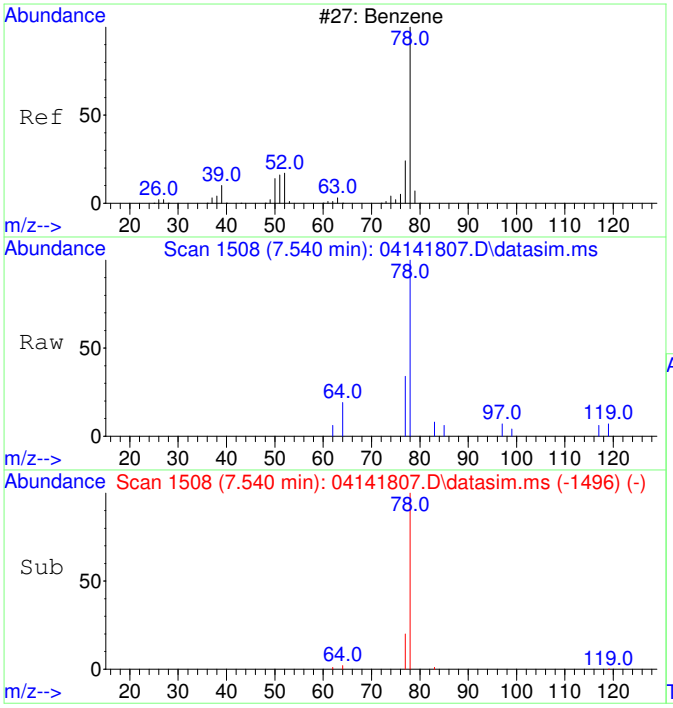


#8
Carbon tetrachloride
Concen: 158.53 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:117 Resp: 708

Ion	Ratio	Lower	Upper
117	100		
119	109.2	64.5	124.5

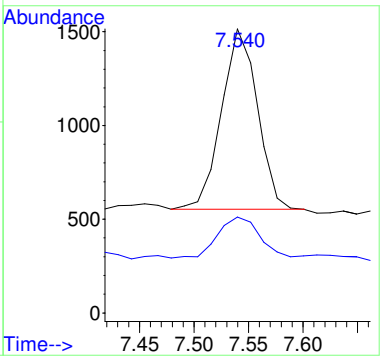


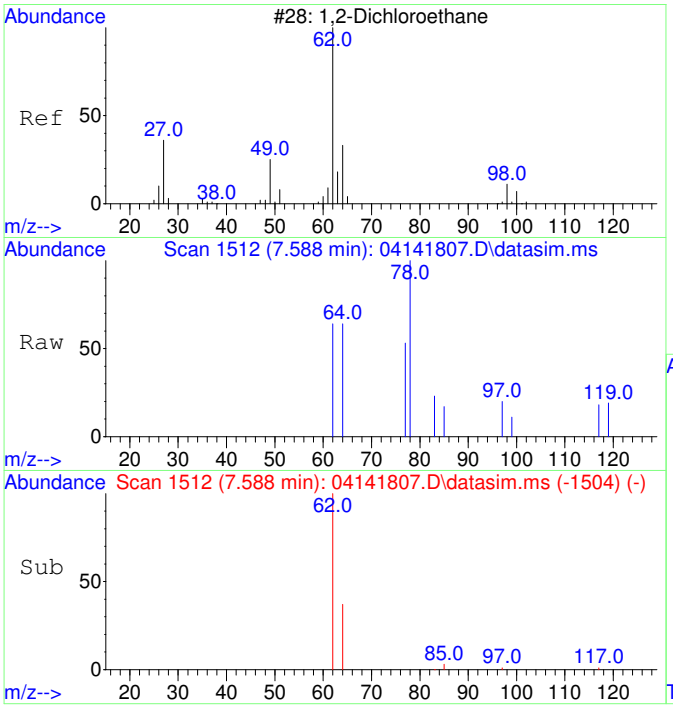


#9
Benzene
Concen: 176.80 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 78 Resp: 2206

Ion	Ratio	Lower	Upper
78	100		
77	26.9	0.0	53.6

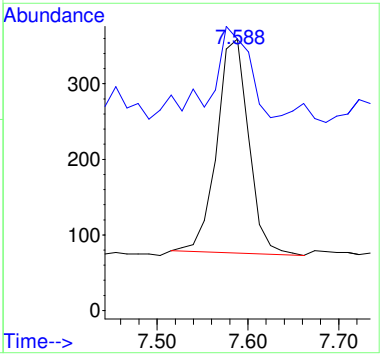


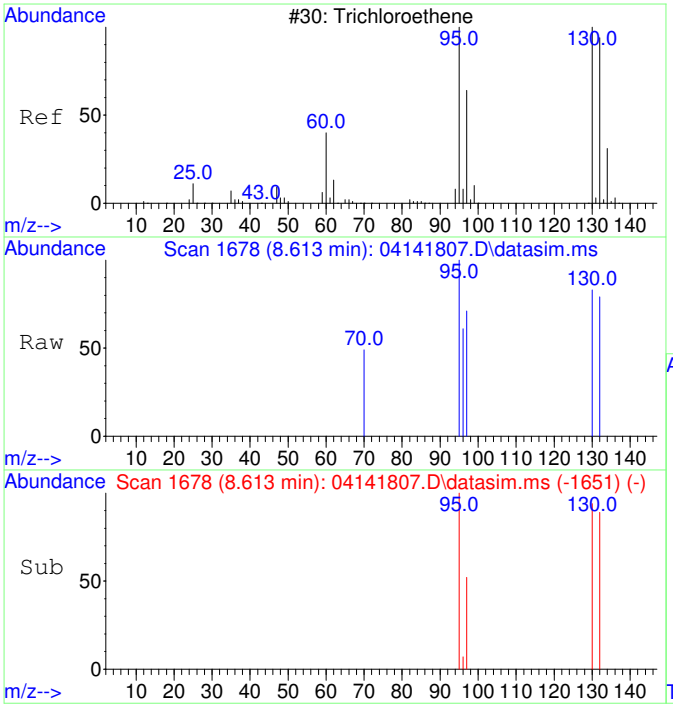


#10
1,2-Dichloroethane
Concen: 149.52 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 62 Resp: 685

Ion	Ratio	Lower	Upper
62	100		
64	44.7	1.8	61.8

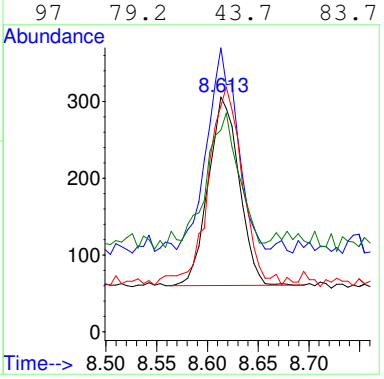


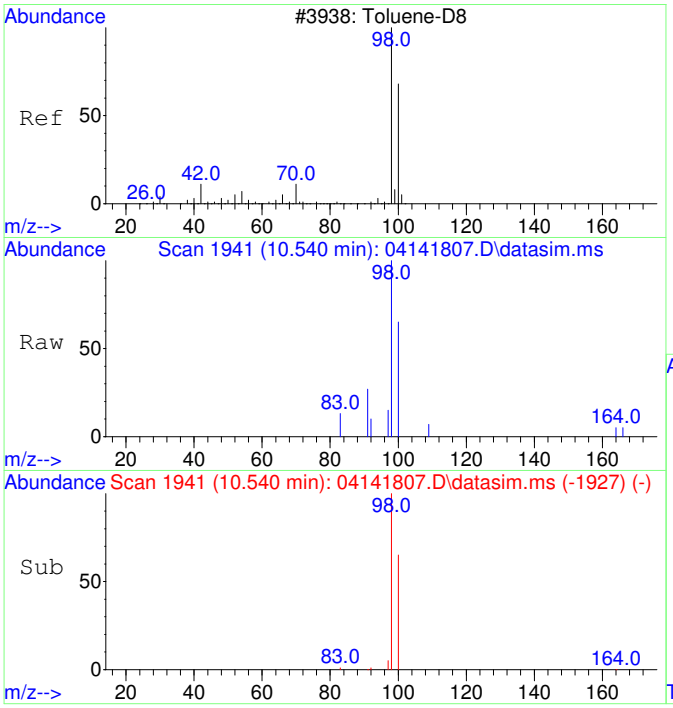


#11
Trichloroethene
Concen: 158.58 ug/L
RT: 8.613 min Scan# 1678
Delta R.T. -0.005 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:130 Resp: 520

Ion	Ratio	Lower	Upper
130	100		
95	103.7	68.8	128.8
132	116.2	78.6	118.6
97	79.2	43.7	83.7

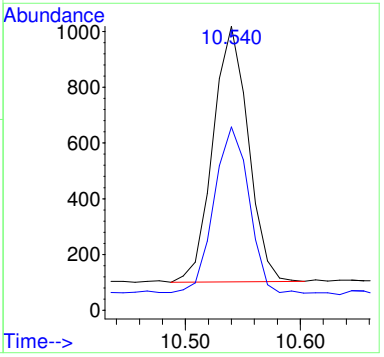


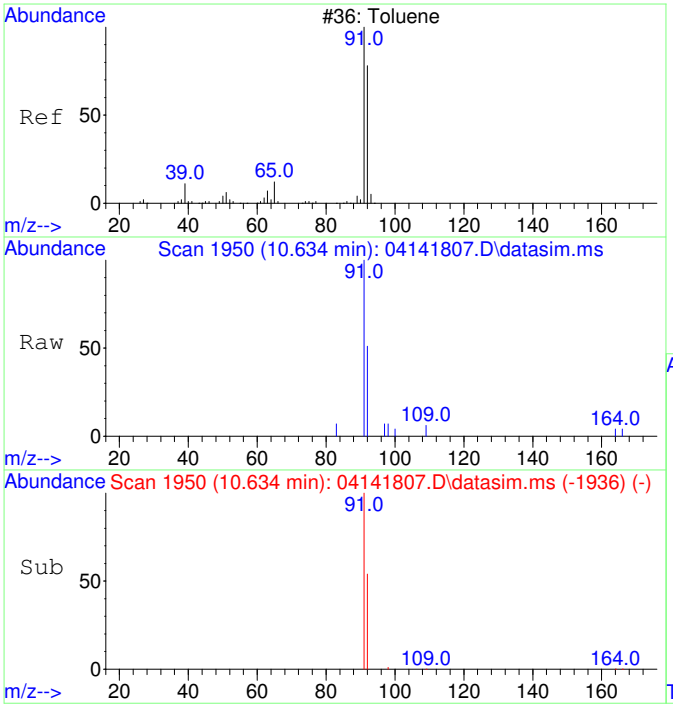


#12
Toluene-d8
Concen: 159.13 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 98 Resp: 1959

Ion	Ratio	Lower	Upper
98	100		
100	66.6	36.9	96.9

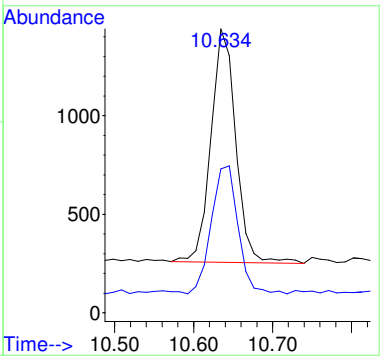


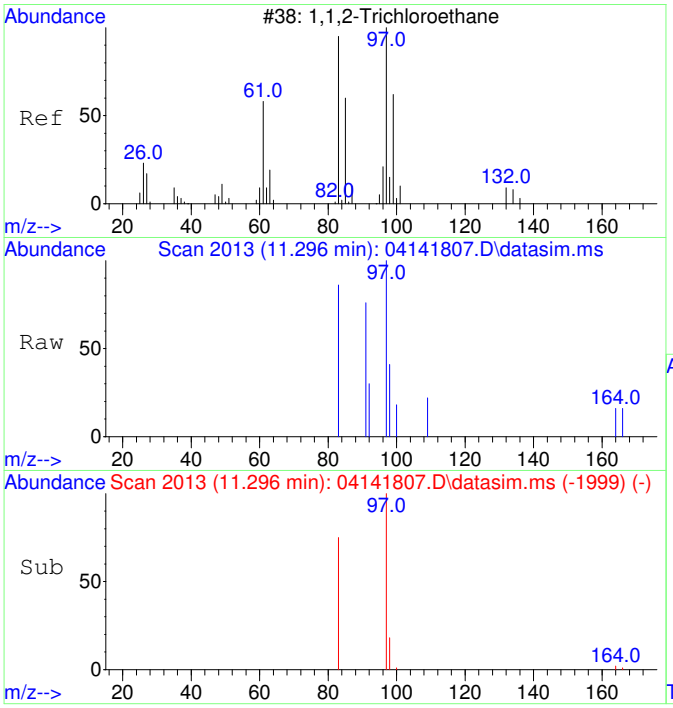


#13
Toluene
Concen: 158.66 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2579

Ion	Ratio	Lower	Upper
91	100		
92	59.1	28.8	88.8

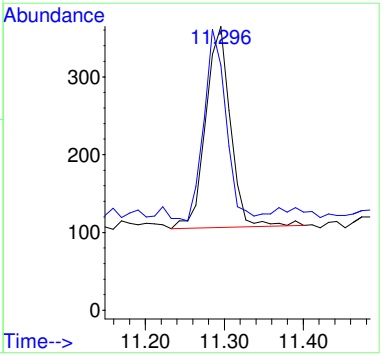


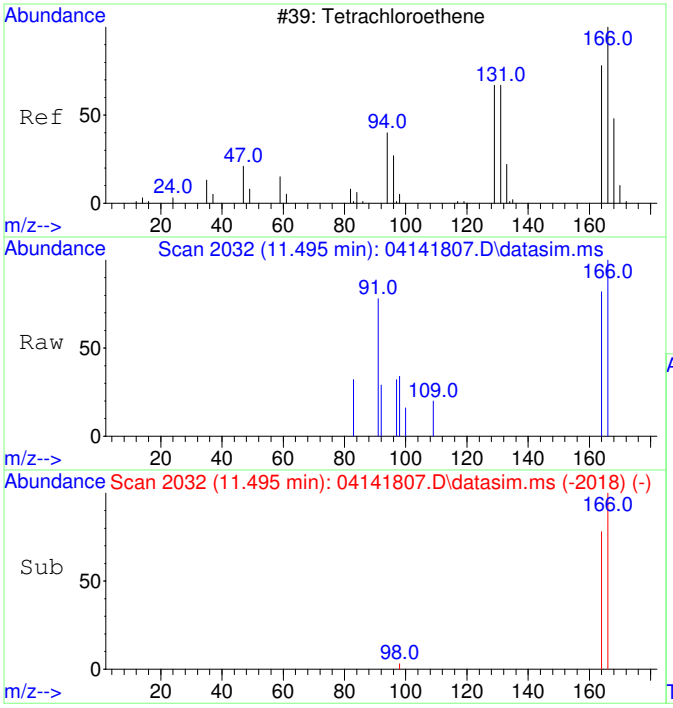


#14
1,1,2-Trichloroethane
Concen: 154.15 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 97 Resp: 563

Ion	Ratio	Lower	Upper
97	100		
83	81.3	54.3	114.3

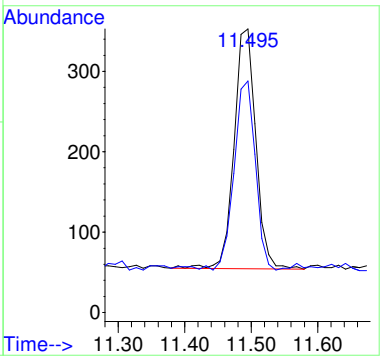


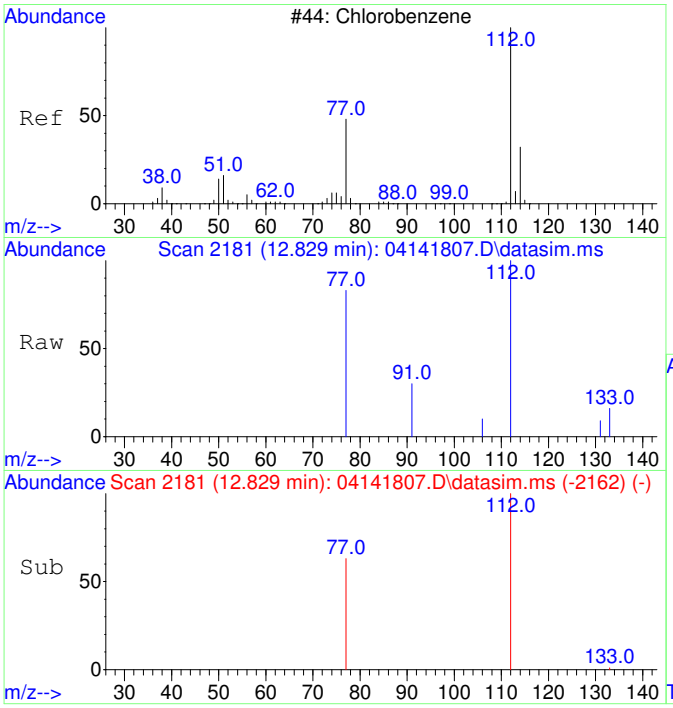


#15
Tetrachloroethene
Concen: 144.85 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:166 Resp: 678

Ion	Ratio	Lower	Upper
166	100		
164	76.3	48.0	108.0

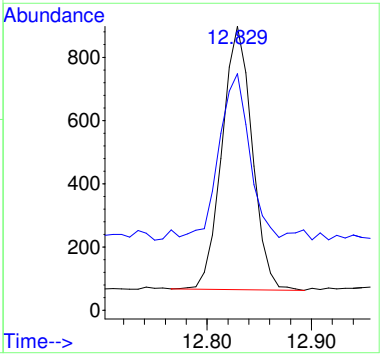


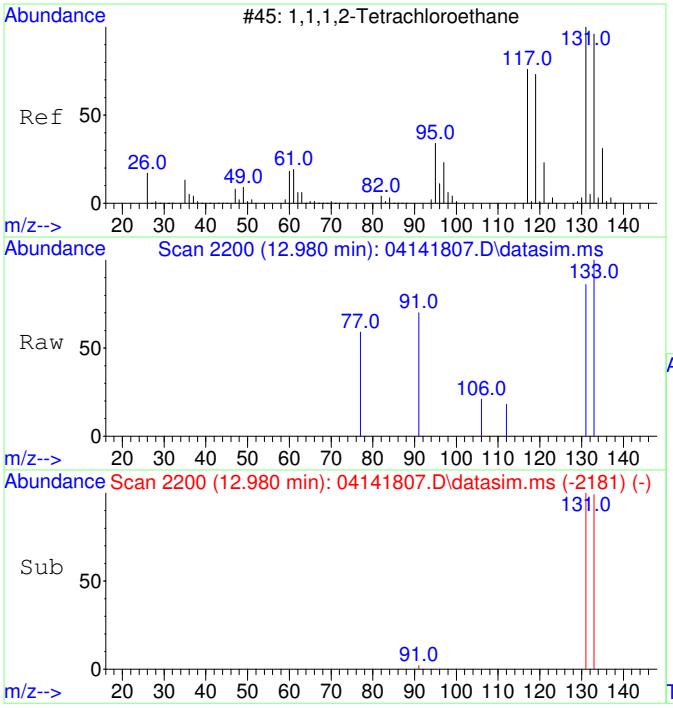


#16
Chlorobenzene
Concen: 148.20 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:112 Resp: 1666

Ion	Ratio	Lower	Upper
112	100		
77	61.1	29.4	89.4

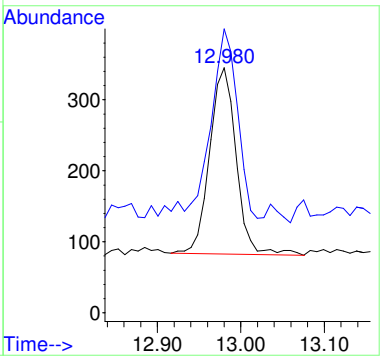


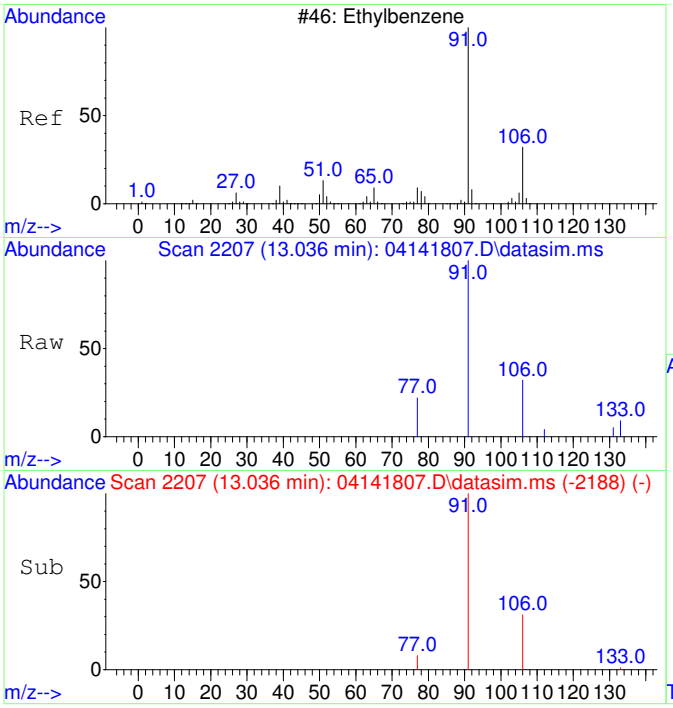


#17
1,1,1,2-Tetrachloroethane
Concen: 165.47 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:131 Resp: 581

Ion	Ratio	Lower	Upper
131	100		
133	104.1	65.1	125.1

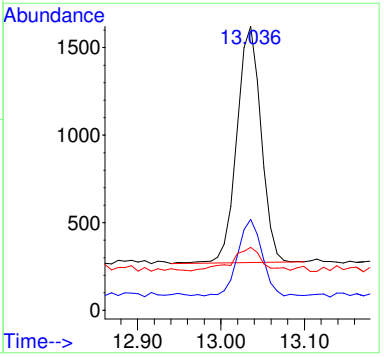


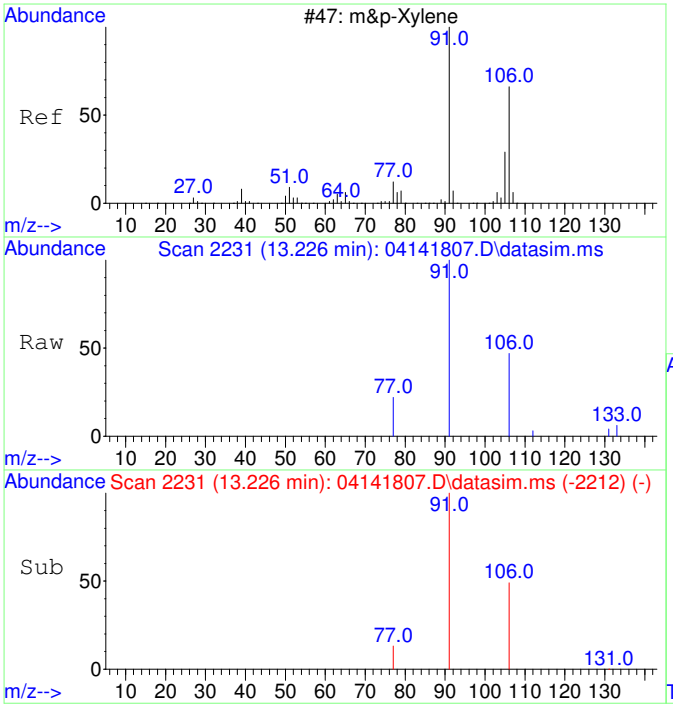


#18
Ethylbenzene
Concen: 142.23 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2721

Ion	Ratio	Lower	Upper
91	100		
106	32.1	1.8	61.8
77	12.0	0.0	38.7

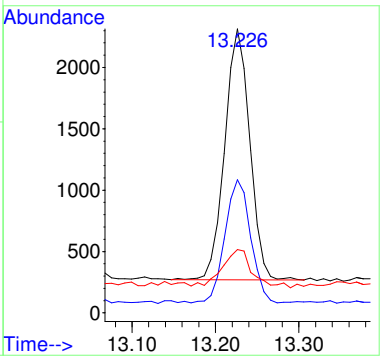


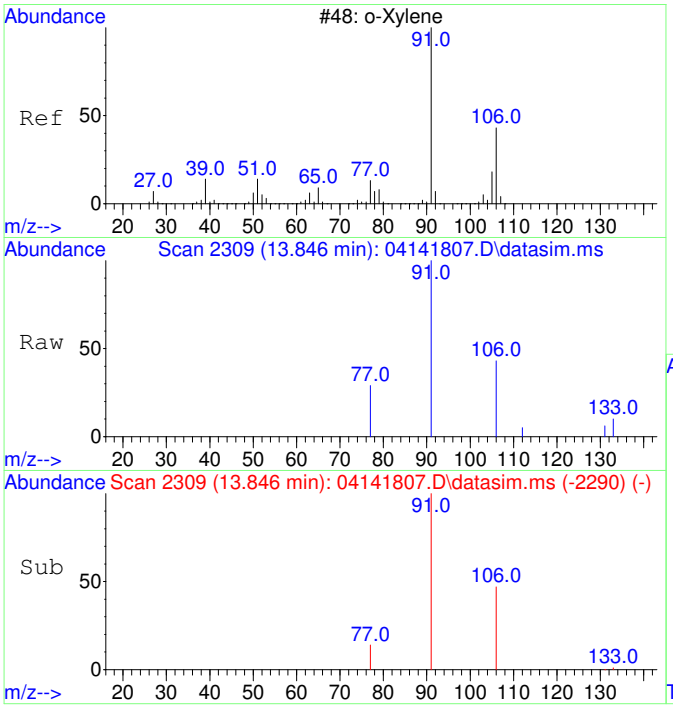


#19
m&p-Xylene
Concen: 286.21 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 4259

Ion	Ratio	Lower	Upper
91	100		
106	49.7	20.0	80.0
77	18.5	0.0	43.4

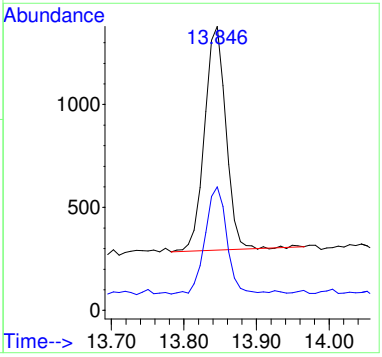


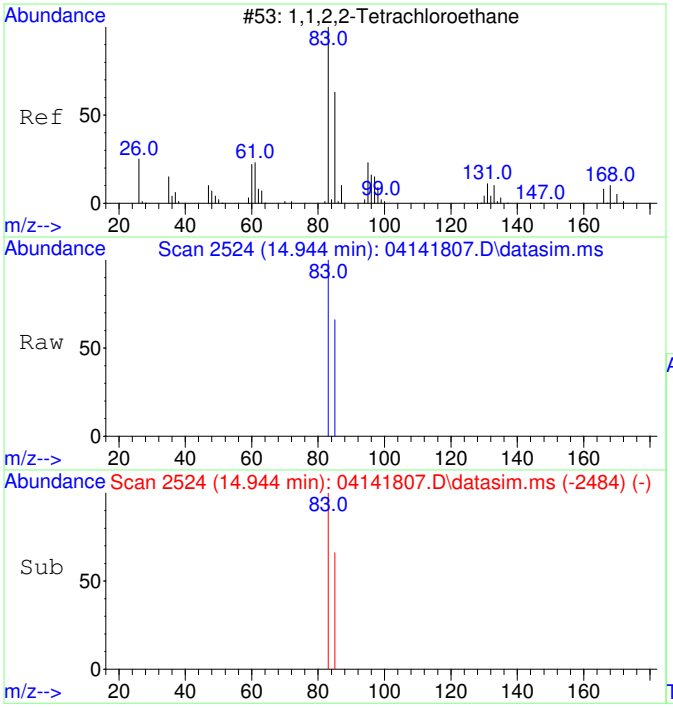


#20
o-Xylene
Concen: 141.95 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2237

Ion	Ratio	Lower	Upper
91	100		
106	48.6	16.9	76.9

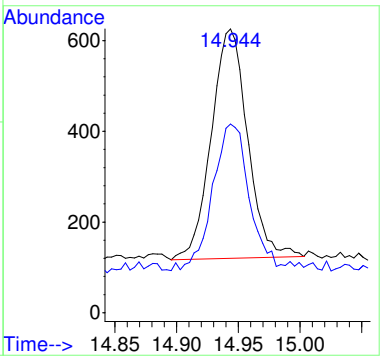


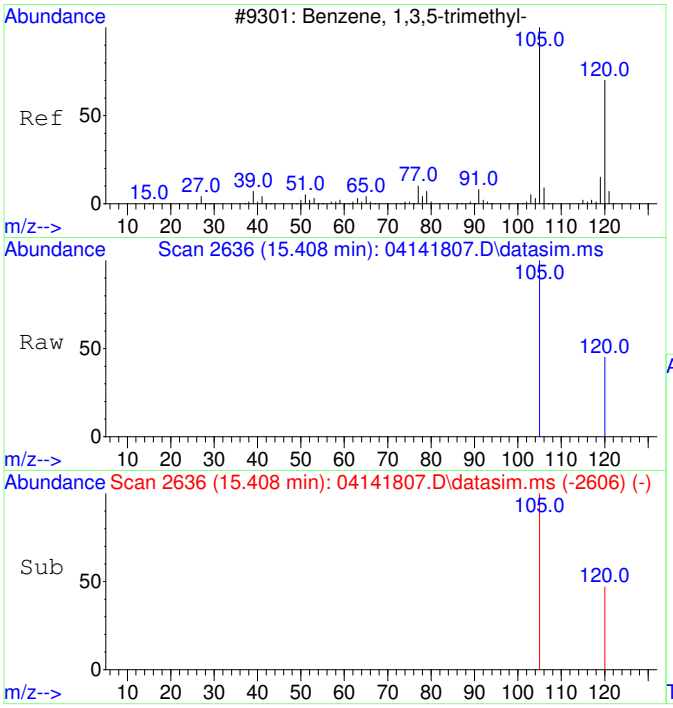


#21
1,1,2,2-Tetrachloroethane
Concen: 136.91 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 83 Resp: 1035

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.3	94.3

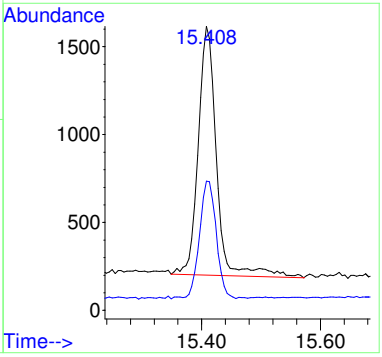


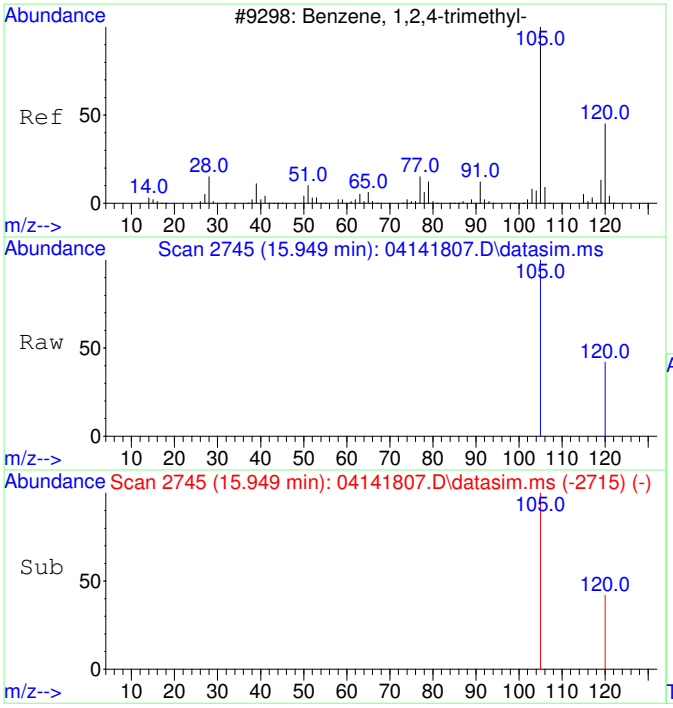


#22
1,3,5-Trimethylbenzene
Concen: 179.85 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:105 Resp: 3021

Ion	Ratio	Lower	Upper
105	100		
120	42.7	18.1	78.1

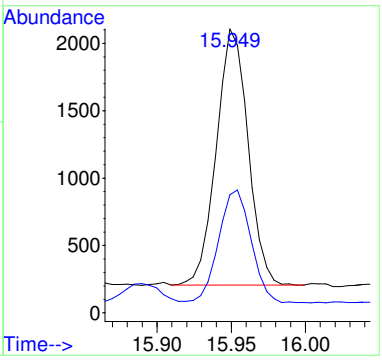


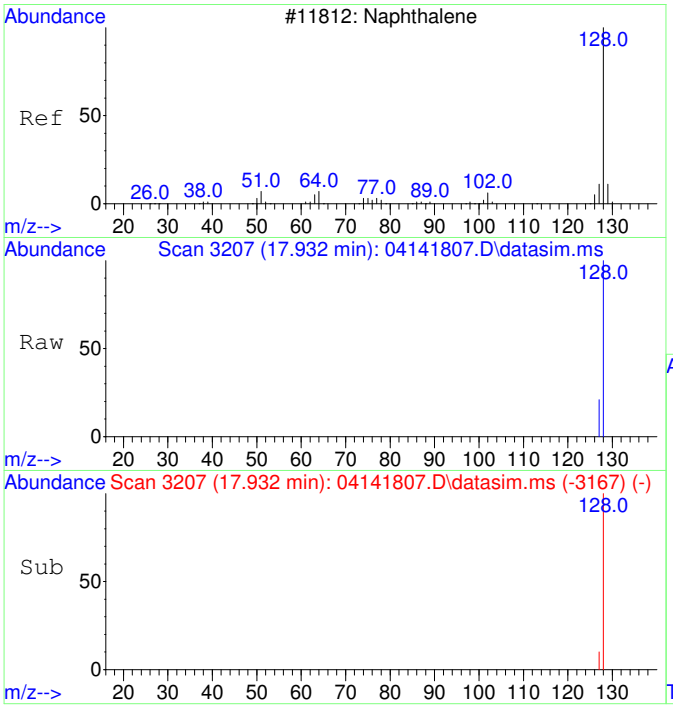


#23
1,2,4-Trimethylbenzene
Concen: 170.77 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:105 Resp: 2826

Ion	Ratio	Lower	Upper
105	100		
120	44.2	14.5	74.5

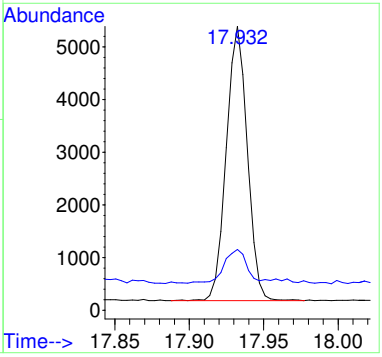


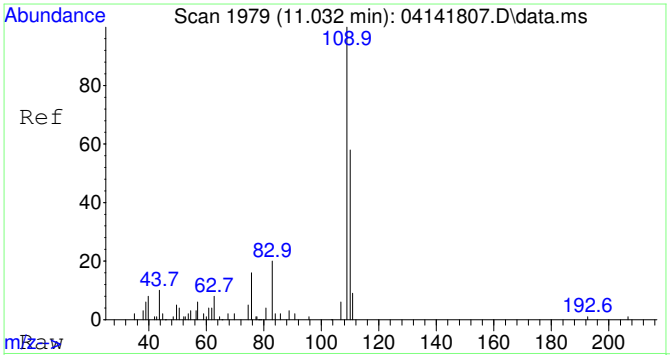


#24
Naphthalene
Concen: 196.75 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:128 Resp: 5115

Ion	Ratio	Lower	Upper
128	100		
127	15.5	0.0	42.7

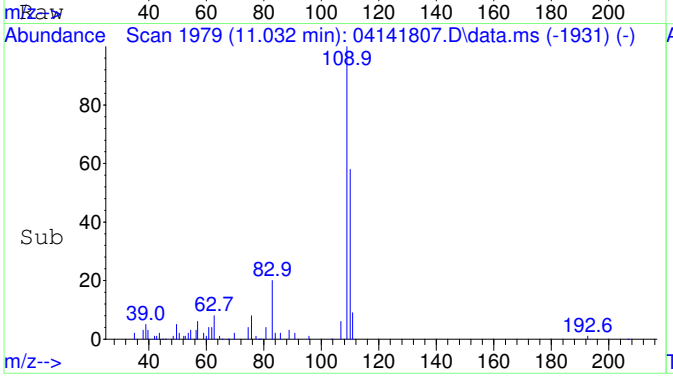


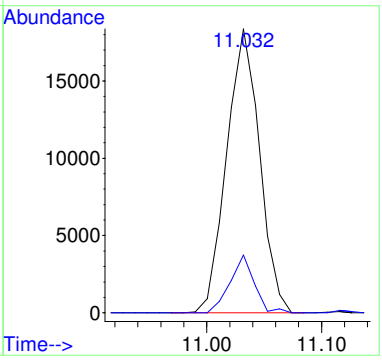


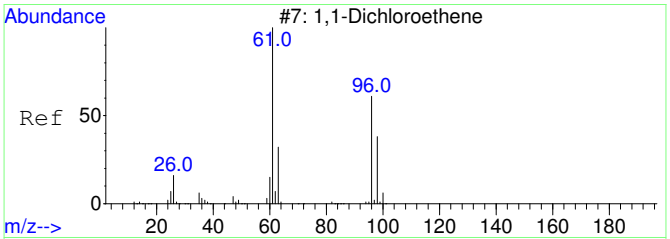
#25
2-Fluorotoluene SCAN
Concen: 4033.78 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:109 Resp: 36593

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	49.2



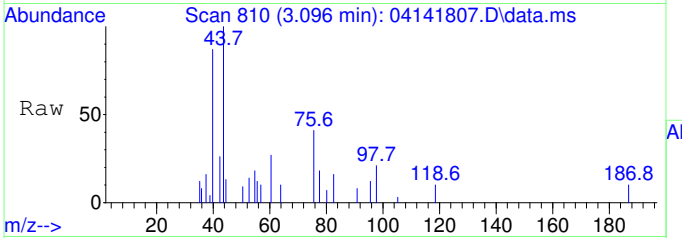


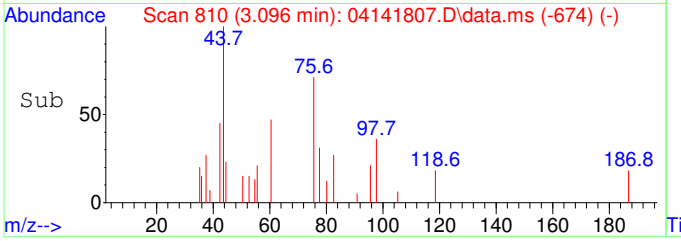


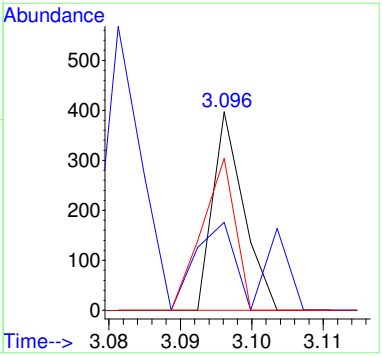
#26
1,1-Dichloroethene SCAN
Concen: 49.87 ug/L
RT: 3.096 min Scan# 810
Delta R.T. 0.004 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

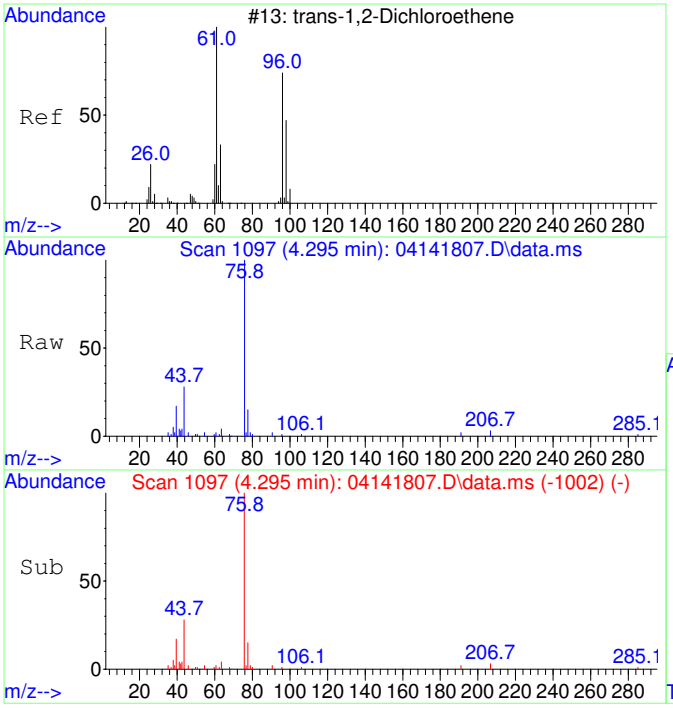
Tgt Ion: 61 Resp: 119

Ion	Ratio	Lower	Upper
61	100		
96	156.3	21.6	81.6#
98	83.2	7.5	67.5#





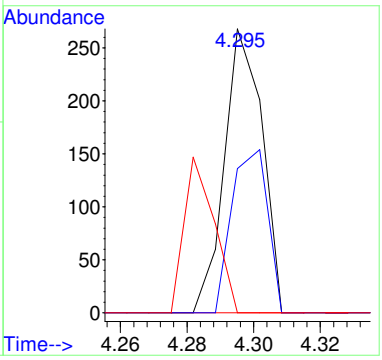


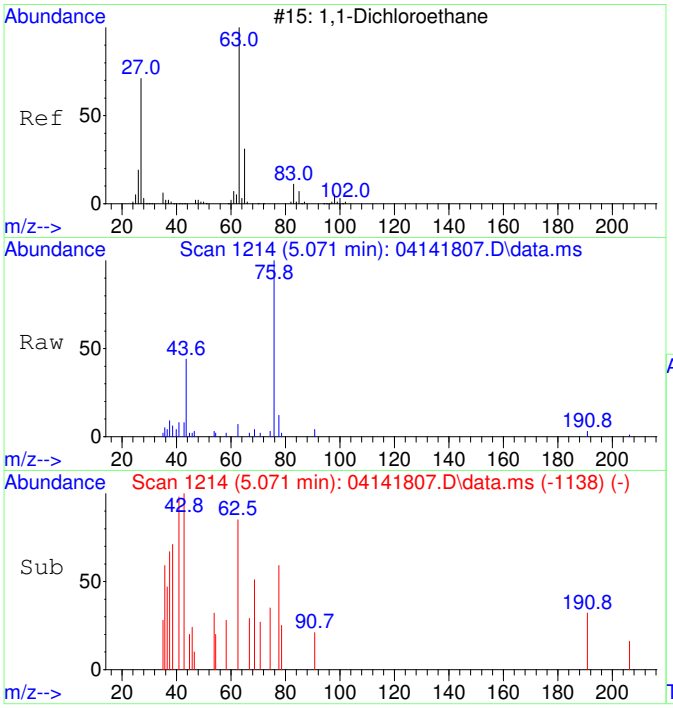


#27
trans-1,2-Dichloroethene SCAN
Concen: 81.13 ug/L
RT: 4.295 min Scan# 1097
Delta R.T. -0.013 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 211

Ion	Ratio	Lower	Upper
61	100		
96	54.5	51.8	111.8
98	43.6	22.7	82.7

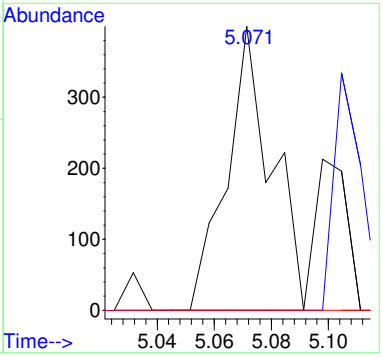


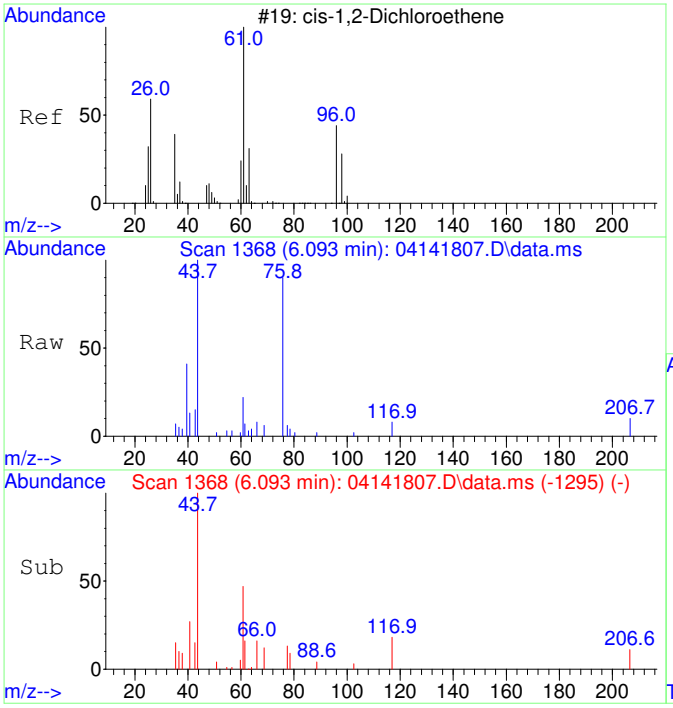


#28
1,1-Dichloroethane SCAN
Concen: 147.68 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 63 Resp: 437

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	0.0	0.0	38.2

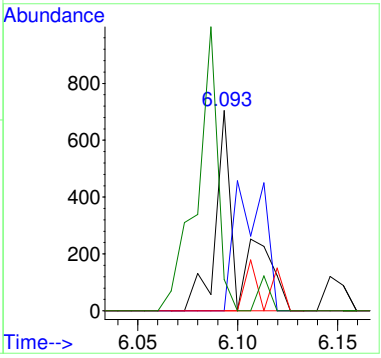


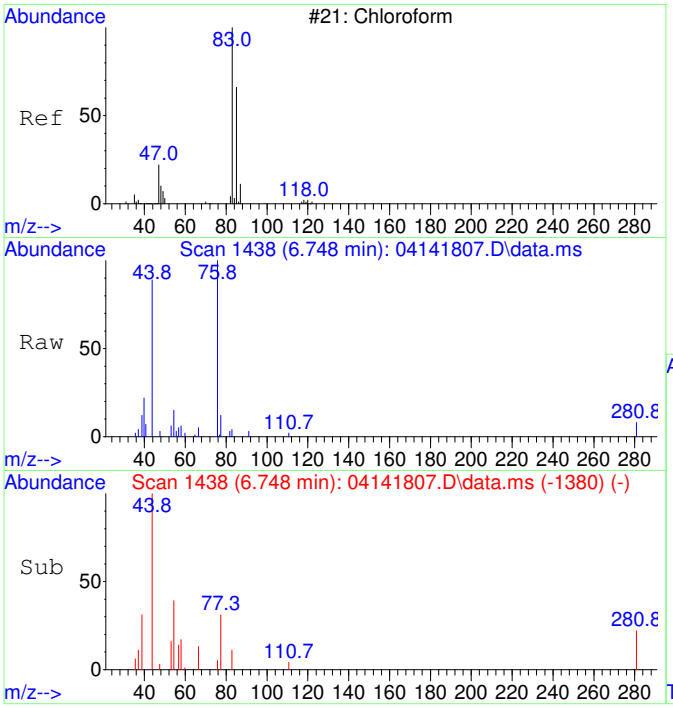


#29
cis-1,2-Dichloroethene SCAN
Concen: 203.66 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.013 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 596

Ion	Ratio	Lower	Upper
61	100		
96	78.2	49.4	109.4
98	22.0	9.5	69.5
63	122.1	0.0	60.0#

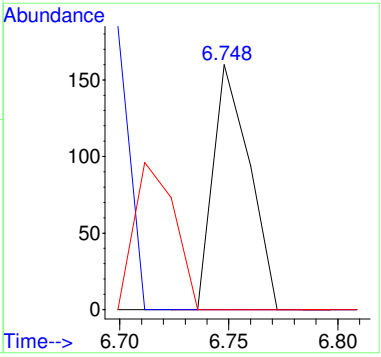


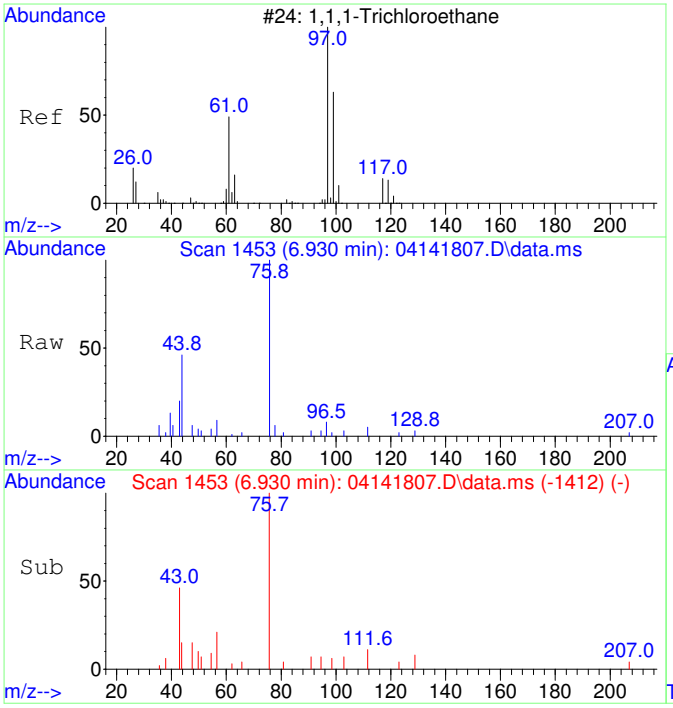


#30
Chloroform SCAN
Concen: 60.16 ug/L
RT: 6.748 min Scan# 1438
Delta R.T. 0.073 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 83 Resp: 185

Ion	Ratio	Lower	Upper
83	100		
85	0.0	47.8	107.8#
47	0.0	8.2	68.2#

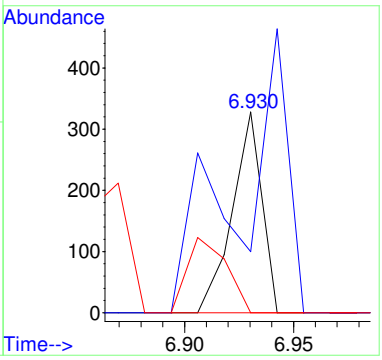


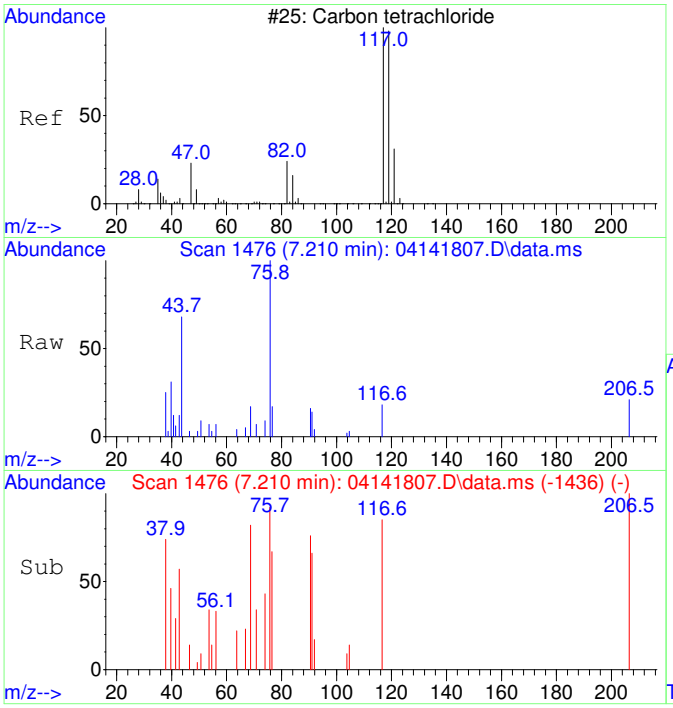


#31
1,1,1-Trichloroethane SCAN
Concen: 105.90 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 97 Resp: 309

Ion	Ratio	Lower	Upper
97	100		
99	231.1	18.3	78.3#
61	0.0	16.3	76.3#

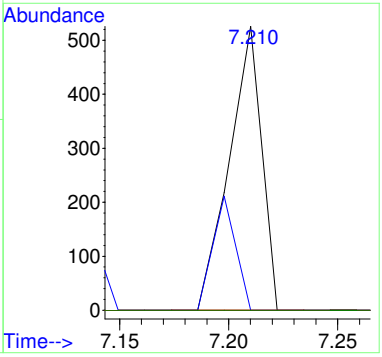


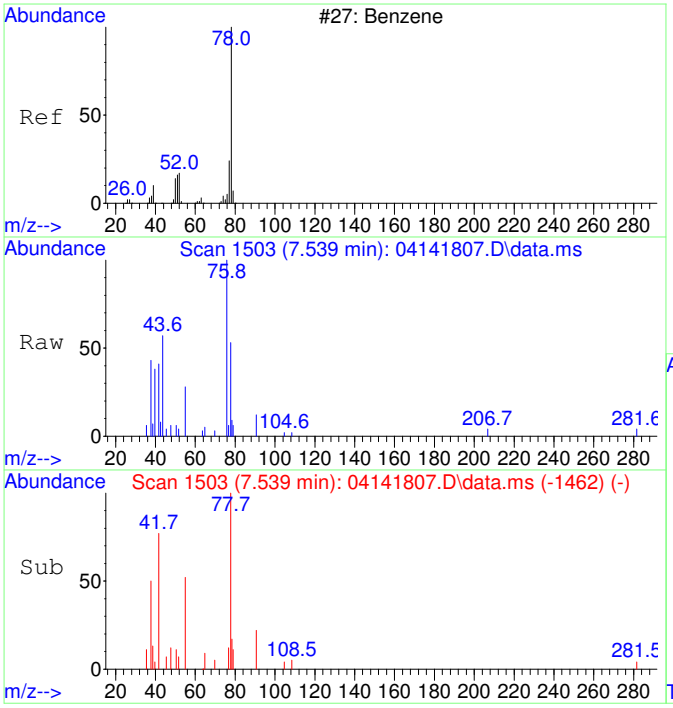


#32
Carbon tetrachloride SCAN
Concen: 252.14 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:117 Resp: 543

Ion	Ratio	Lower	Upper
117	100		
119	28.4	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

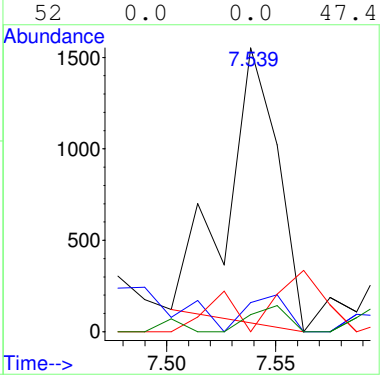


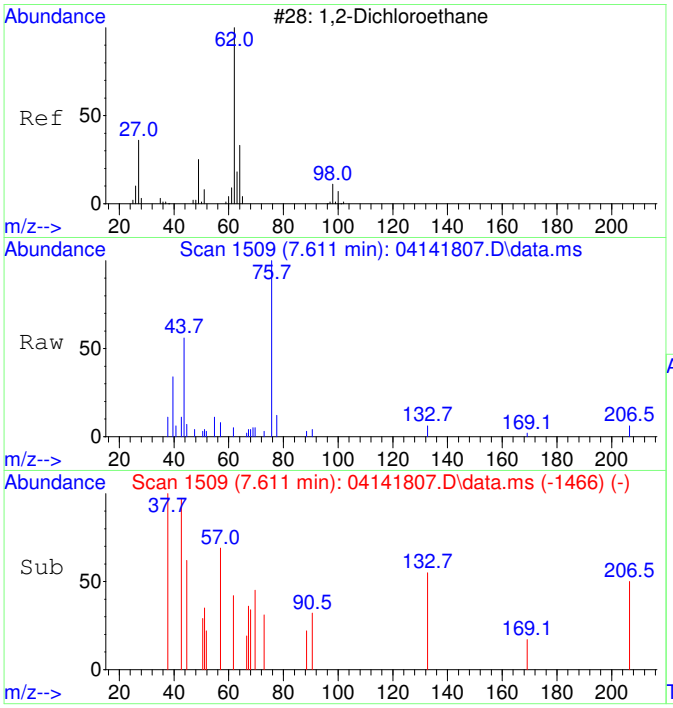


#33
Benzene SCAN
Concen: 293.26 ug/L
RT: 7.539 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 78 Resp: 2437

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	9.0	0.0	47.2
52	0.0	0.0	47.4

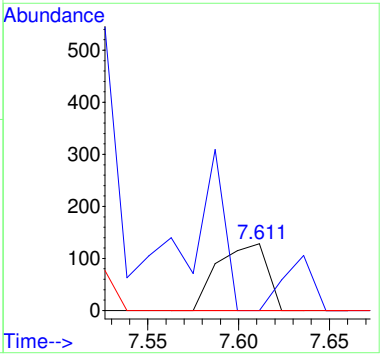


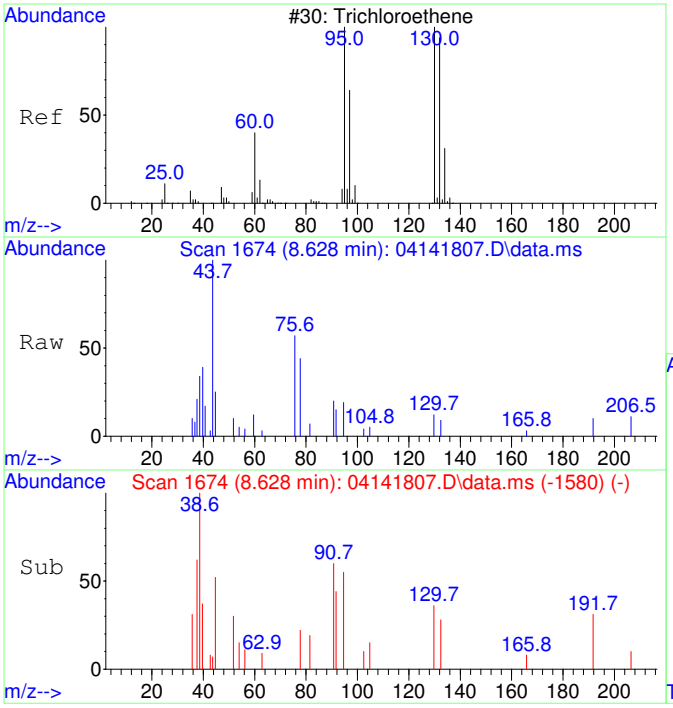


#34
1,2-Dichloroethane SCAN
Concen: 77.28 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.024 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 62 Resp: 243

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	0.0	1.2	61.2#

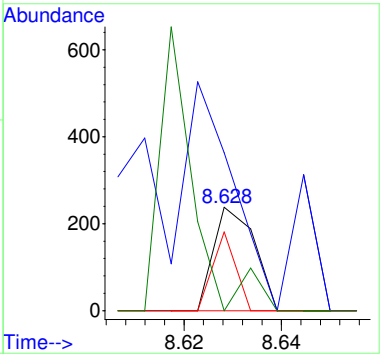


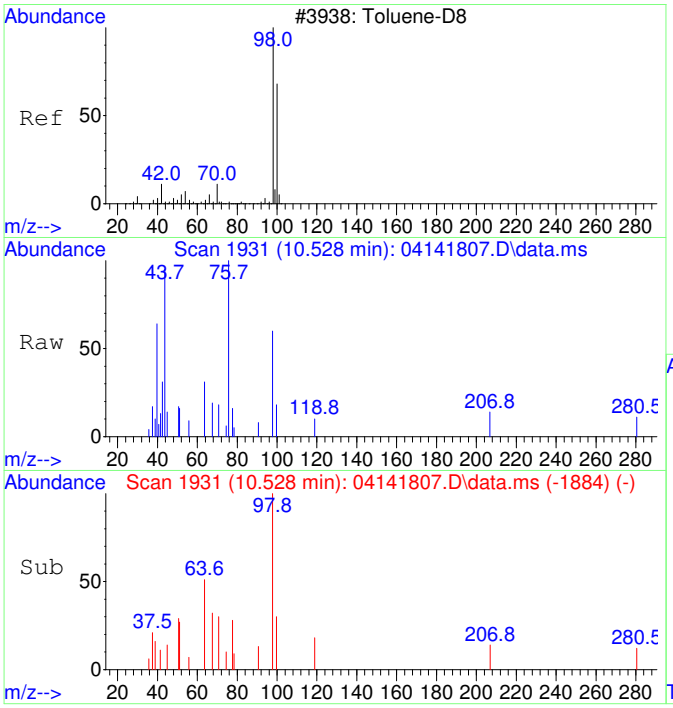


#35
Trichloroethene SCAN
Concen: 80.35 ug/L
RT: 8.628 min Scan# 1674
Delta R.T. 0.011 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:130 Resp: 139

Ion	Ratio	Lower	Upper
130	100		
95	200.0	71.3	131.3#
132	42.4	75.1	135.1#
97	271.2	41.3	101.3#

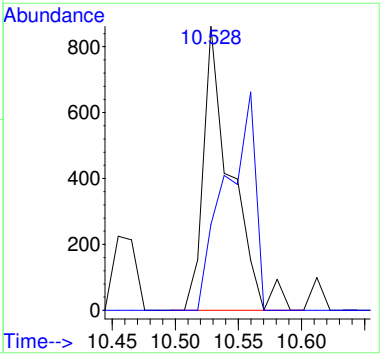


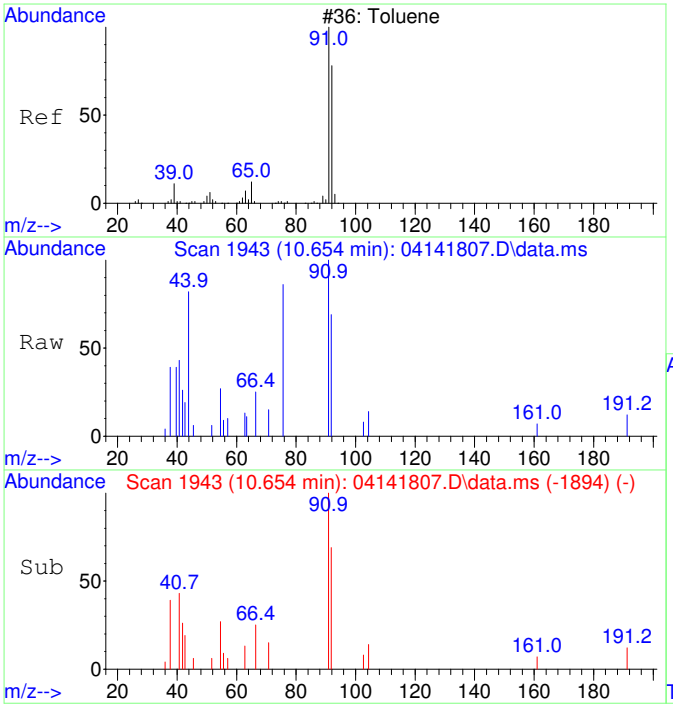


#36
Toluene-d8 SCAN
Concen: 182.20 ug/L
RT: 10.528 min Scan# 1931
Delta R.T. -0.010 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 98 Resp: 1307

Ion	Ratio	Lower	Upper
98	100		
100	0.0	37.3	97.3#

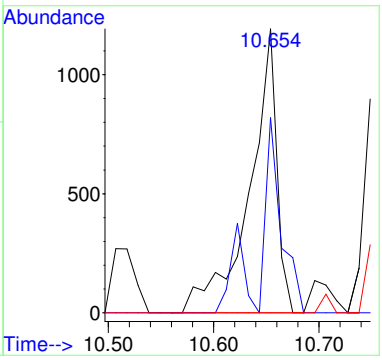


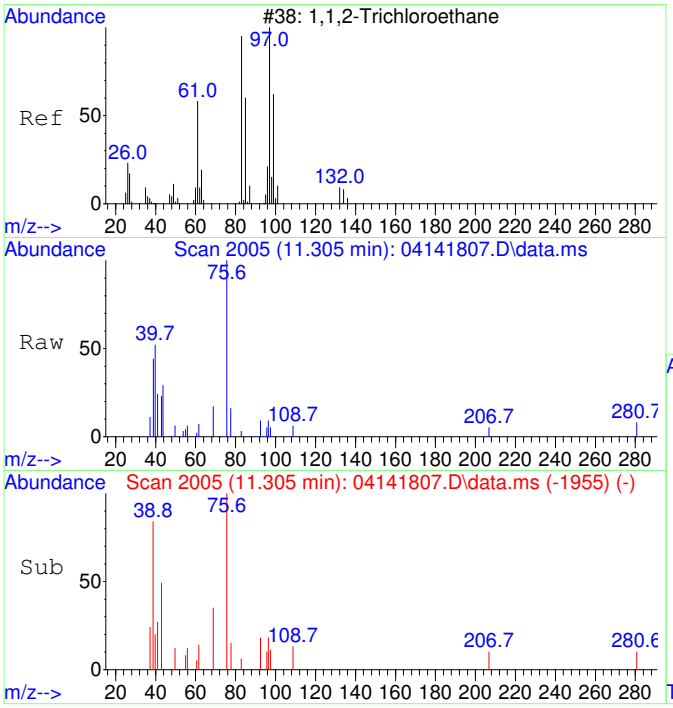


#37
Toluene SCAN
Concen: 216.99 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.011 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2136

Ion	Ratio	Lower	Upper
91	100		
92	39.0	39.1	99.1#
65	0.0	0.0	43.8

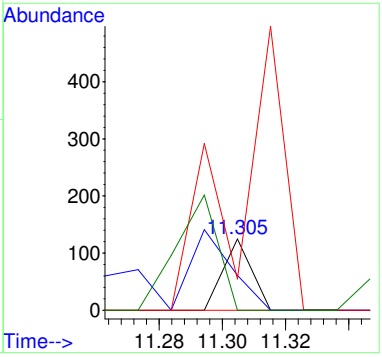


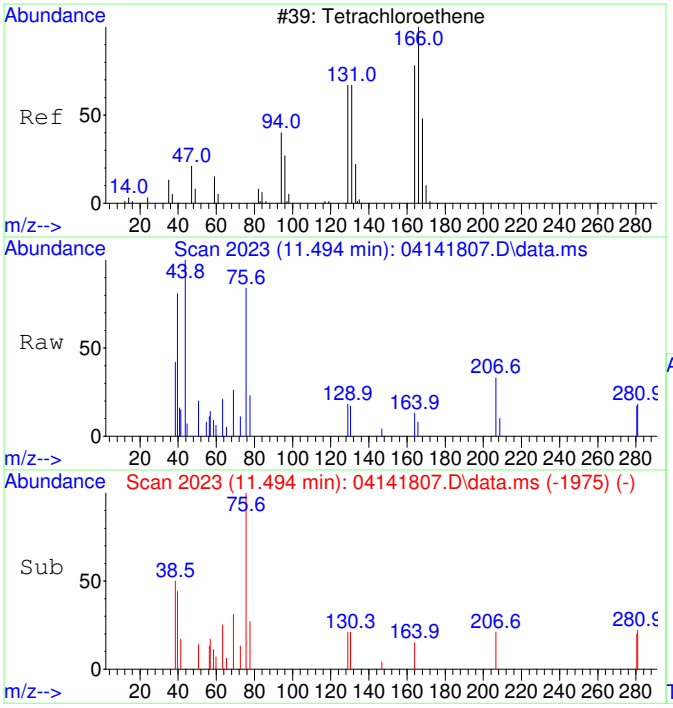


#38
1,1,2-Trichloroethane SCAN
Concen: 33.71 ug/L
RT: 11.305 min Scan# 2005
Delta R.T. 0.021 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 97 Resp: 79

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	672.2	29.7	89.7#
99	0.0	26.5	86.5#

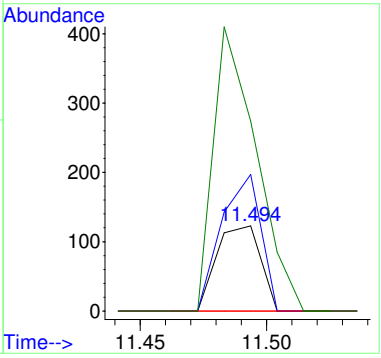


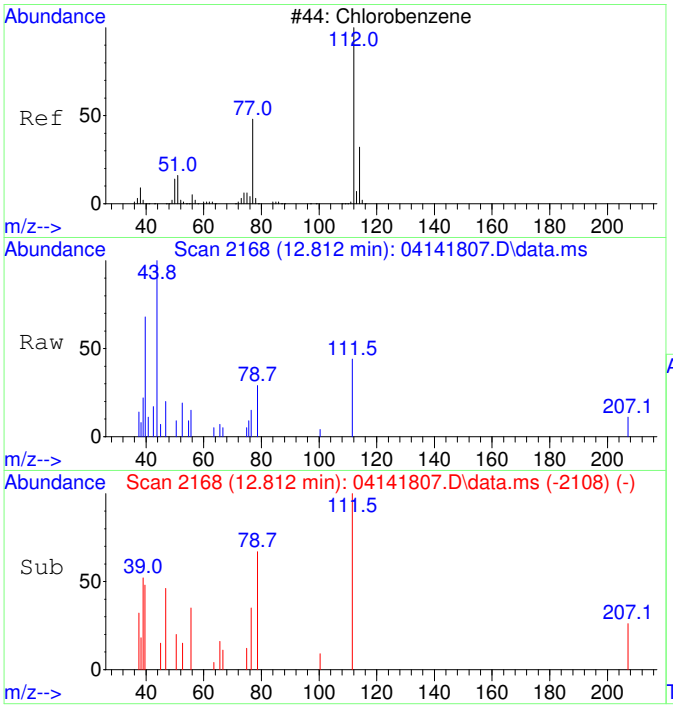


#39
Tetrachloroethene SCAN
Concen: 76.89 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:166 Resp: 149

Ion	Ratio	Lower	Upper
166	100		
164	143.6	49.8	109.8#
131	0.0	42.0	102.0#
129	324.8	30.1	90.1#

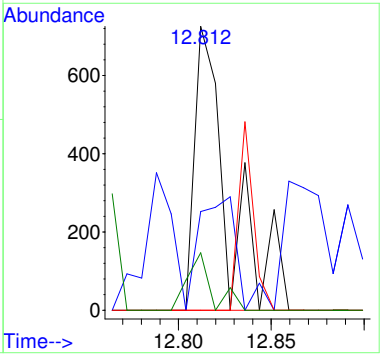


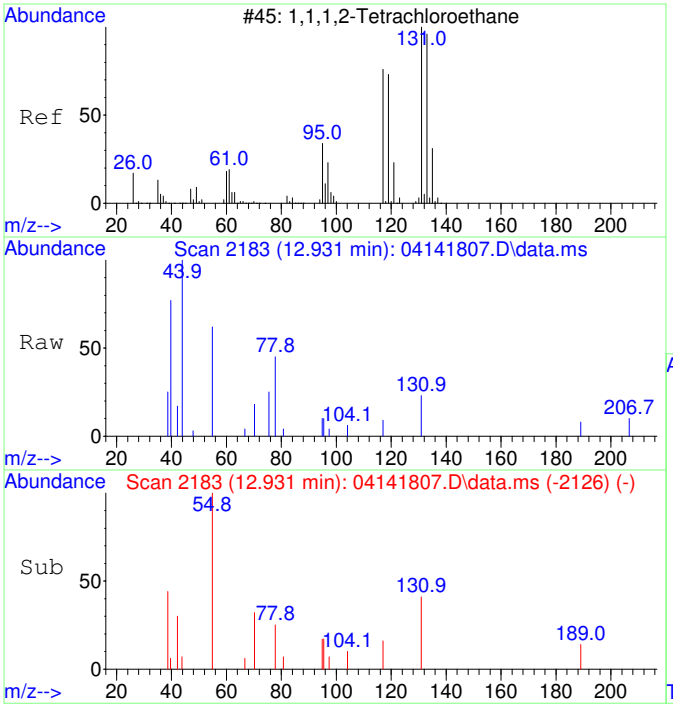


#40
Chlorobenzene SCAN
Concen: 144.70 ug/L
RT: 12.812 min Scan# 2168
Delta R.T. -0.024 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:112 Resp: 925

Ion	Ratio	Lower	Upper
112	100		
77	0.0	39.7	99.7#
114	0.0	1.2	61.2#
51	14.5	0.0	57.1

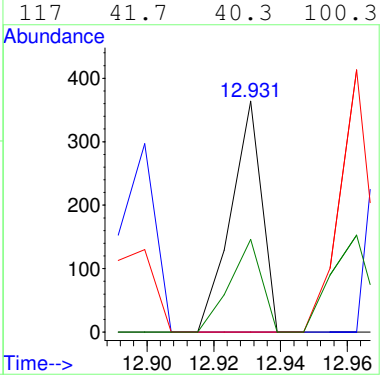


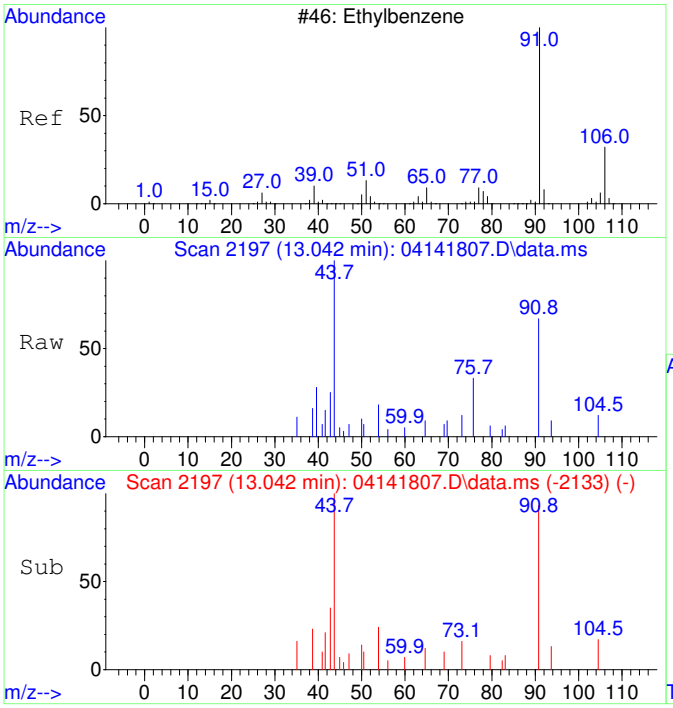


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 109.50 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. -0.048 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:131 Resp: 235

Ion	Ratio	Lower	Upper
131	100		
133	0.0	78.7	138.7#
119	0.0	43.0	103.0#
117	41.7	40.3	100.3

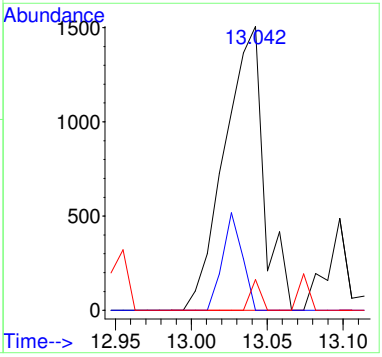


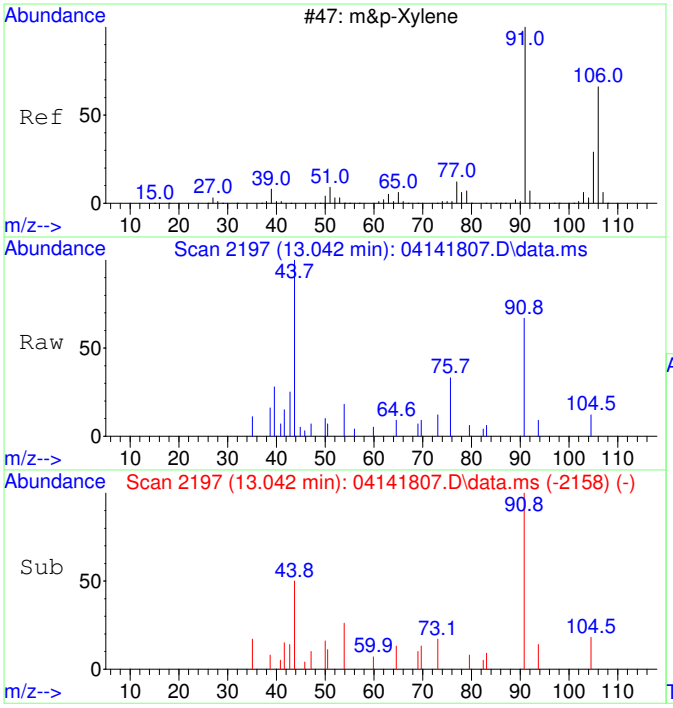


#42
Ethylbenzene SCAN
Concen: 265.26 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. 0.008 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2707

Ion	Ratio	Lower	Upper
91	100		
106	17.4	1.8	61.8
51	2.9	0.0	45.4

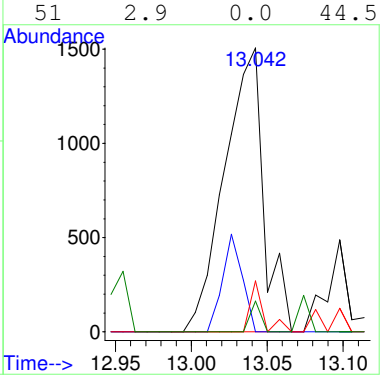


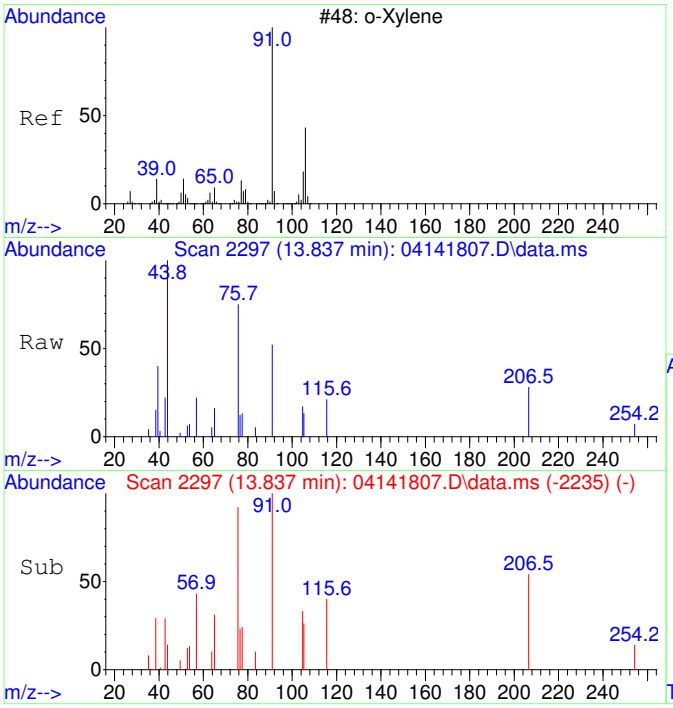


#43
m&p-Xylene SCAN
Concen: 158.52 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.191 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2707

Ion	Ratio	Lower	Upper
91	100		
106	17.4	14.6	74.6
105	5.9	0.0	52.8
51	2.9	0.0	44.5

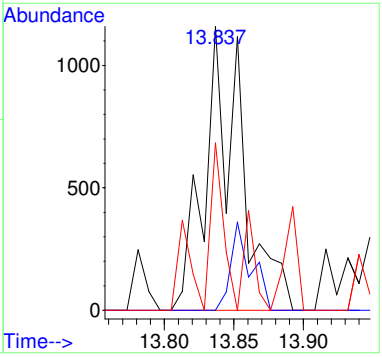


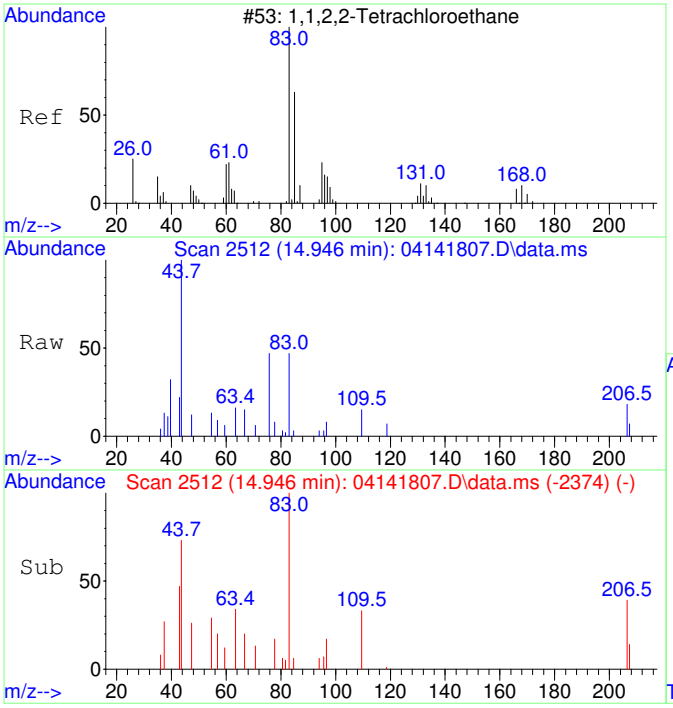


#44
o-Xylene SCAN
Concen: 221.15 ug/L
RT: 13.837 min Scan# 2297
Delta R.T. -0.008 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2123

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	32.3	0.0	54.9

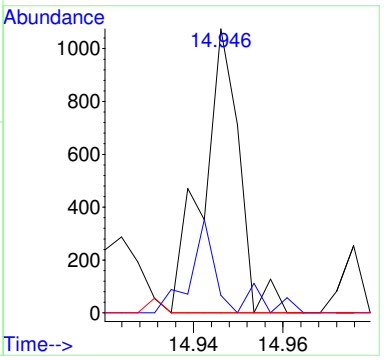


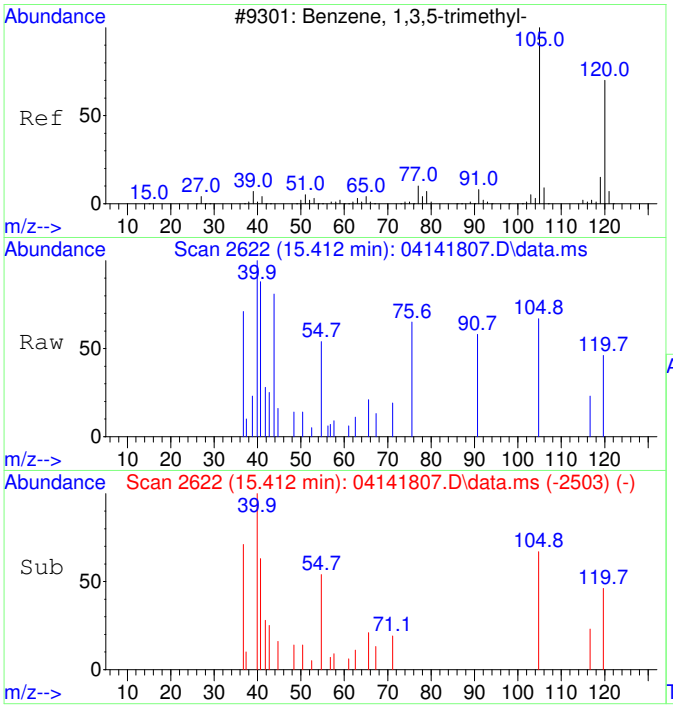


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 94861.64 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 83 Resp: 609

Ion	Ratio	Lower	Upper
83	100		
85	21.2	32.4	92.4#
95	0.0	0.0	41.2

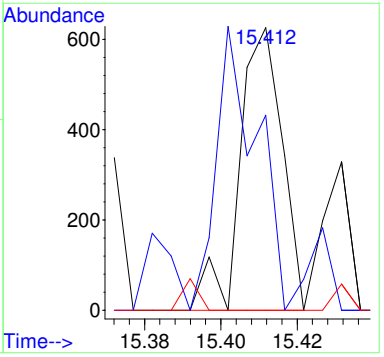


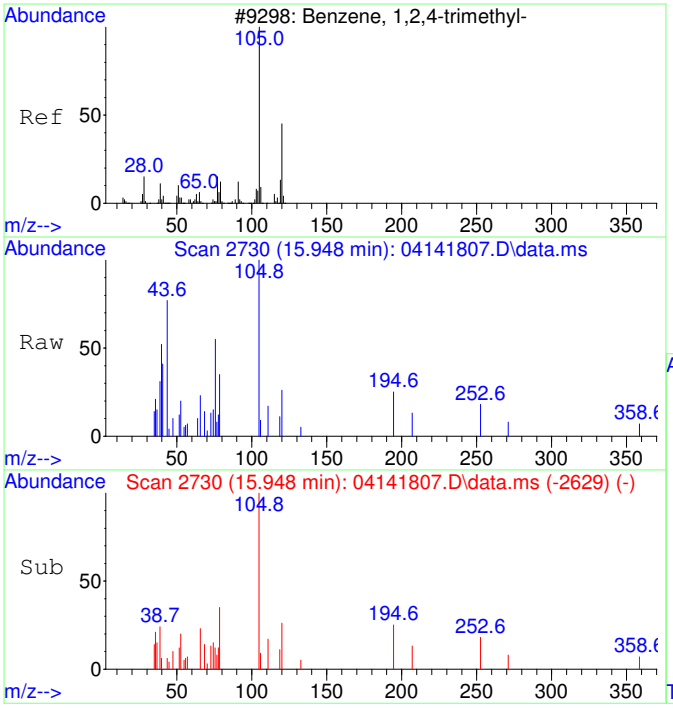


#46
1,3,5-Trimethylbenzene SCAN
Concen: 58.91 ug/L
RT: 15.412 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:105 Resp: 484

Ion	Ratio	Lower	Upper
105	100		
120	87.8	16.1	76.1#
119	0.0	0.0	41.8

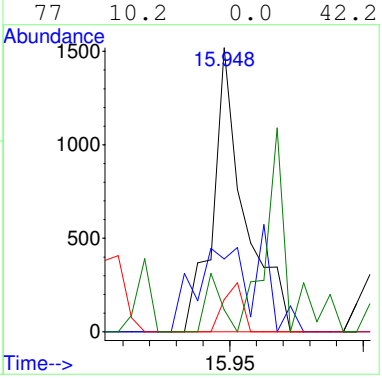


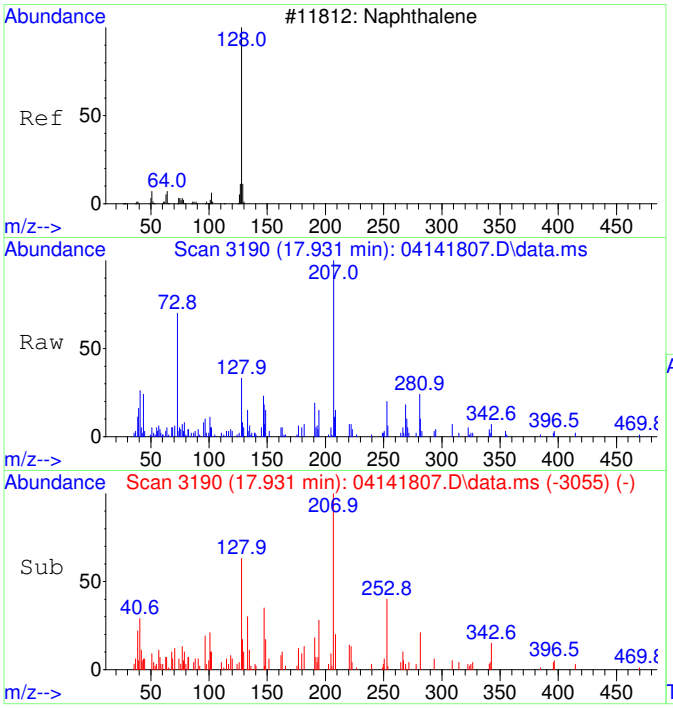


#47
1,2,4-Trimethylbenzene SCAN
Concen: 149.56 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:105 Resp: 1251

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.8	72.8#
119	10.3	0.0	42.5
77	10.2	0.0	42.2

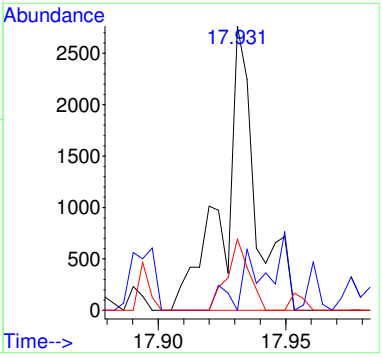


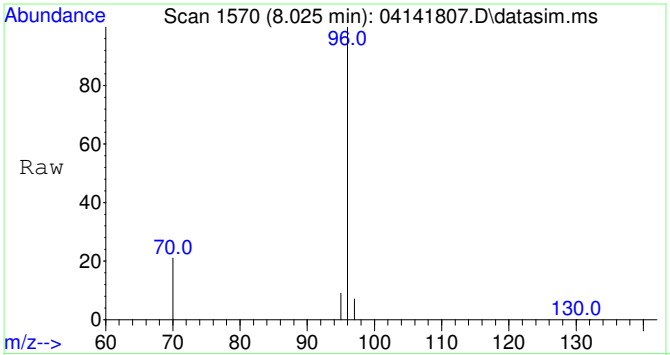


#48
Naphthalene SCAN
Concen: 208.27 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:128 Resp: 2420

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	45.2
129	17.1	0.0	42.0

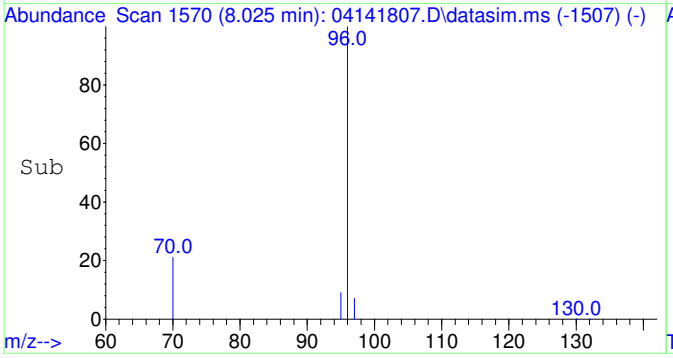


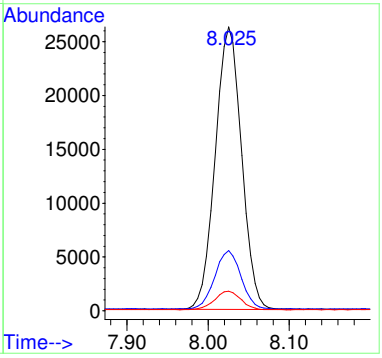


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 96 Resp: 59057

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.6	0.0	36.7





Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141807.D
Acq On : 14 Apr 2018 13:14
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL5
Misc : 1745077 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

M.I. Performed By:
RH at 9:36 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:10 pm, Apr 16, 2018

Quant Time: Apr 16 09:27:44 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

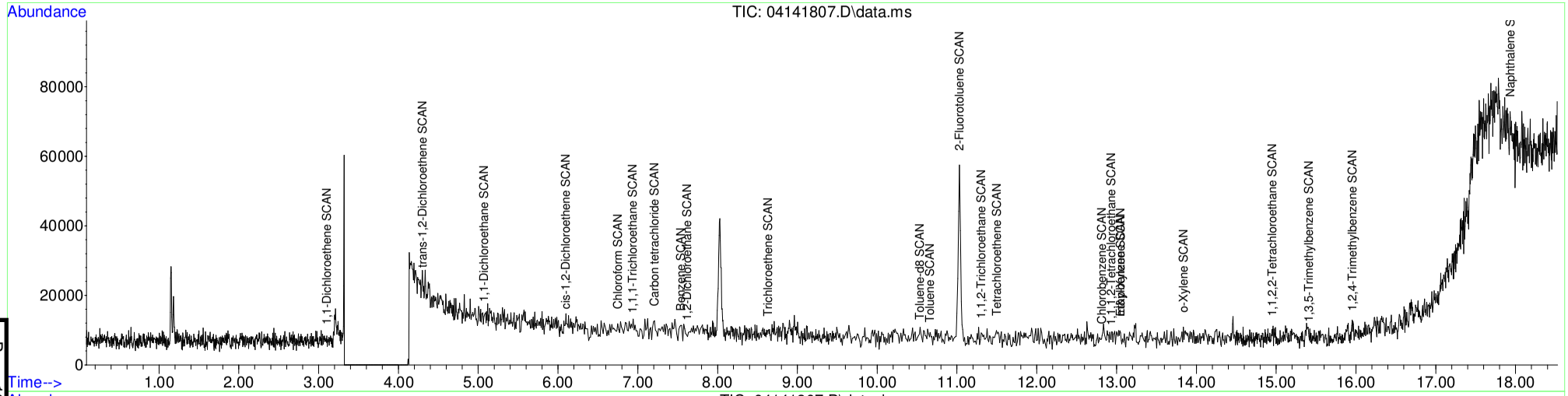
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	75985	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	59057	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	1959	159.13 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	3.18%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	542m	149.05 ug/L	
3] trans-1,2-Dichloroethene	4.303	61	580	156.06 ug/L	98
4] 1,1-Dichloroethane	5.066	63	732	158.34 ug/L	90
5] cis-1,2-Dichloroethene	6.094	61	685	149.56 ug/L	92
6] Chloroform	6.676	83	799	156.02 ug/L	86
7] 1,1,1-Trichloroethane	6.932	97	807	166.10 ug/L	98
8] Carbon tetrachloride	7.211	117	708	158.53 ug/L	85
9] Benzene	7.540	78	2206	176.80 ug/L	93
10] 1,2-Dichloroethane	7.588	62	685	149.52 ug/L	77
11] Trichloroethene	8.613	130	520	158.58 ug/L	87
13] Toluene	10.634	91	2579	158.66 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	563	154.15 ug/L	97
15] Tetrachloroethene	11.495	166	678	144.85 ug/L	98
16] Chlorobenzene	12.829	112	1666	148.20 ug/L	98
17] 1,1,1,2-Tetrachloroethane	12.980	131	581	165.47 ug/L	91
18] Ethylbenzene	13.036	91	2721	142.23 ug/L	98
19] m&p-Xylene	13.226	91	4259	286.21 ug/L	97
20] o-Xylene	13.846	91	2237	141.95 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.944	83	1035	136.91 ug/L	99
22] 1,3,5-Trimethylbenzene	15.408	105	3021	179.85 ug/L	92
23] 1,2,4-Trimethylbenzene	15.949	105	2826	170.77 ug/L	100
24] Naphthalene	17.932	128	5115	196.75 ug/L	93
25) 2-Fluorotoluene SCAN	11.032	109	36593	4033.78 ug/L	91
26) 1,1-Dichloroethene SCAN	3.096	61	119	49.87 ug/L #	1
27) trans-1,2-Dichloroethe...	4.295	61	211	81.13 ug/L	76
28) 1,1-Dichloroethane SCAN	5.071	63	437	147.68 ug/L #	49
29) cis-1,2-Dichloroethene...	6.093	61	596	203.66 ug/L #	57
30) Chloroform SCAN	6.748	83	185	60.16 ug/L #	19
31) 1,1,1-Trichloroethane ...	6.930	97	309	105.90 ug/L #	1
32) Carbon tetrachloride SCAN	7.210	117	543	252.14 ug/L #	40
33) Benzene SCAN	7.539	78	2437	293.26 ug/L #	55
34) 1,2-Dichloroethane SCAN	7.611	62	243	77.28 ug/L #	42
35) Trichloroethene SCAN	8.628	130	139	80.35 ug/L #	1
36) Toluene-d8 SCAN	10.528	98	1307	182.20 ug/L #	16
37) Toluene SCAN	10.654	91	2136	216.99 ug/L #	64
38) 1,1,2-Trichloroethane ...	11.305	97	79	33.71 ug/L #	1
39) Tetrachloroethene SCAN	11.494	166	149	76.89 ug/L #	1
40) Chlorobenzene SCAN	12.812	112	925	144.70 ug/L #	35
41) 1,1,1,2-Tetrachloroeth...	12.931	131	235	109.50 ug/L #	20
42) Ethylbenzene SCAN	13.042	91	2707	265.26 ug/L	73
43) m&p-Xylene SCAN	13.042	91	2707	158.52 ug/L	62
44) o-Xylene SCAN	13.837	91	2123	221.15 ug/L #	47
45) 1,1,2,2-Tetrachloroeth...	14.946	83	609	94861.64 ug/L #	50
46) 1,3,5-Trimethylbenzene...	15.412	105	484	58.91 ug/L #	44
47) 1,2,4-Trimethylbenzene...	15.948	105	1251	149.56 ug/L #	56
48) Naphthalene SCAN	17.931	128	2420	208.27 ug/L #	74

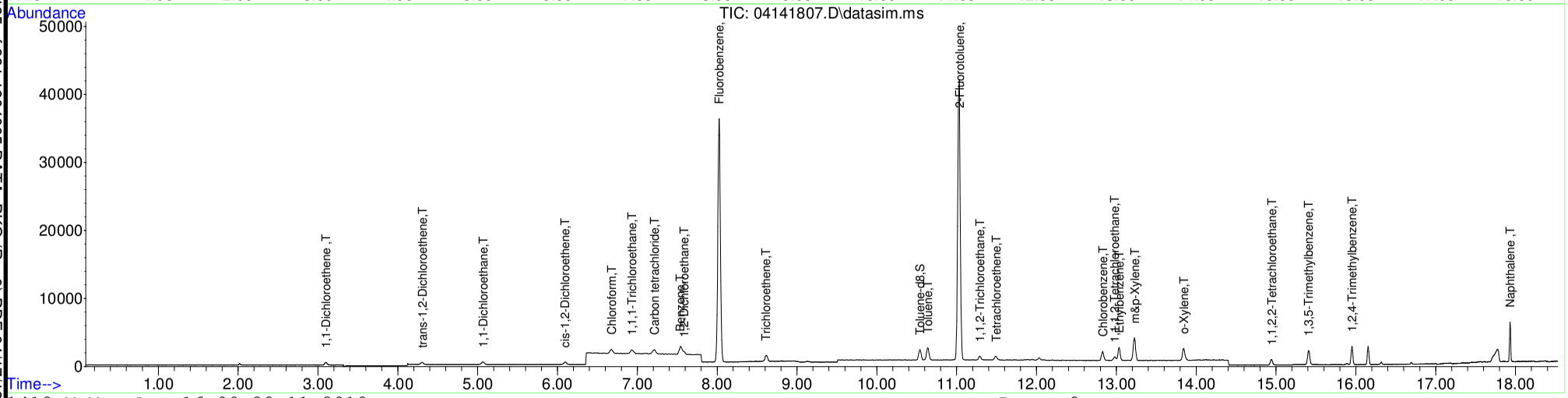
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141807.D
Acq On : 14 Apr 2018 13:14
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL5
Misc : 1745077 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 16 09:27:44 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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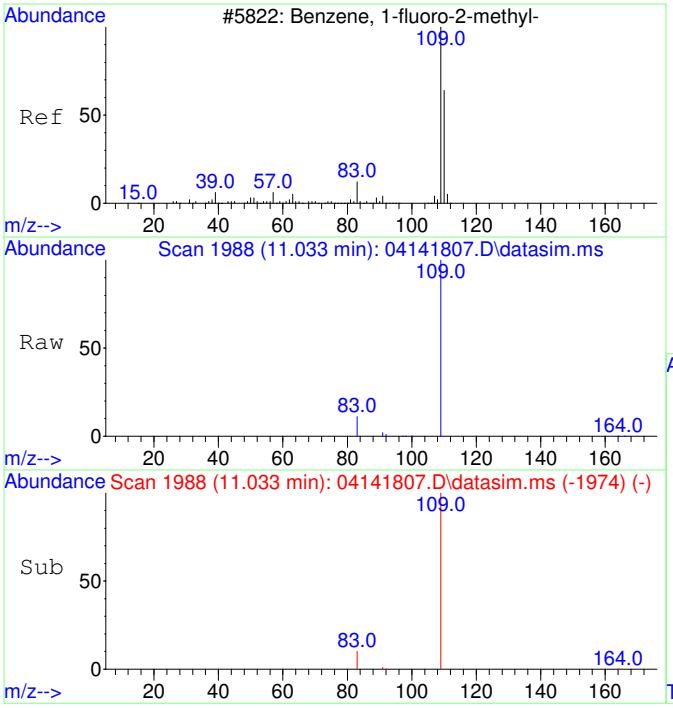
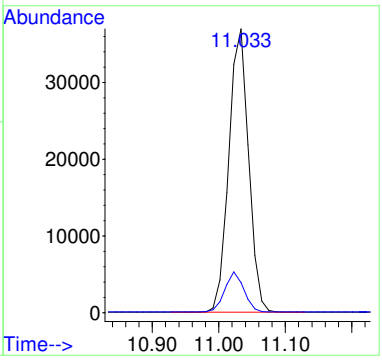
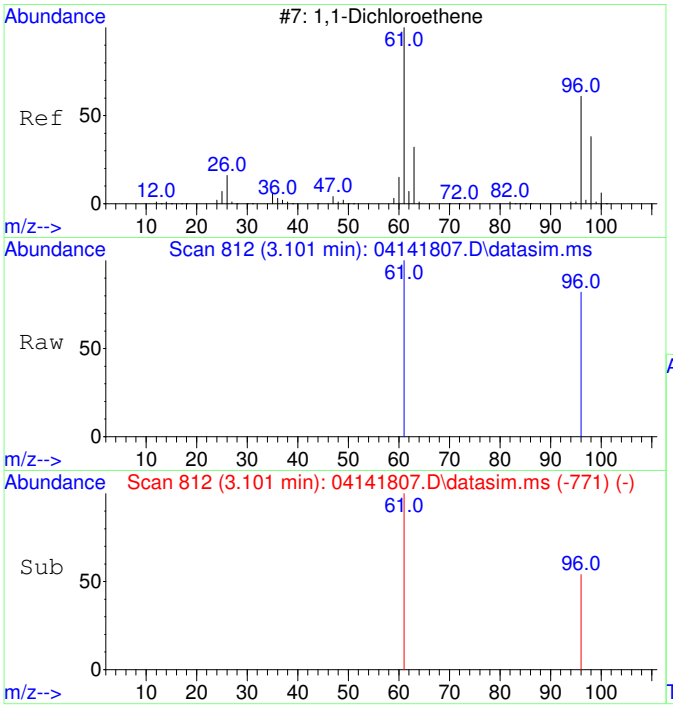


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:109 Resp: 75985

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

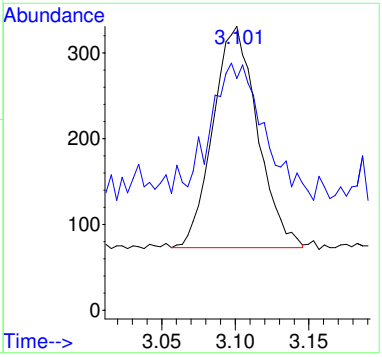


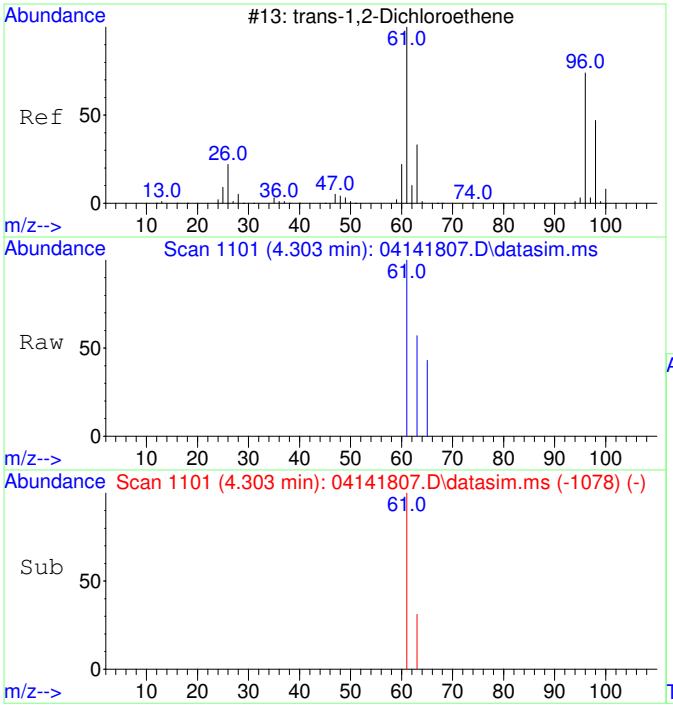


#2
1,1-Dichloroethene
Concen: 149.05 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. 0.004 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 542

Ion	Ratio	Lower	Upper
61	100		
96	121.2	26.1	86.1#

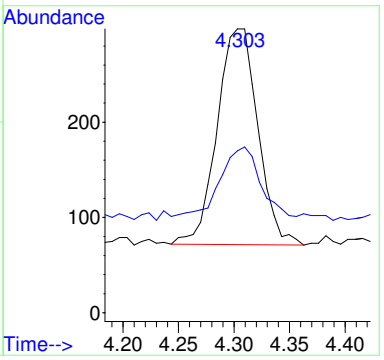


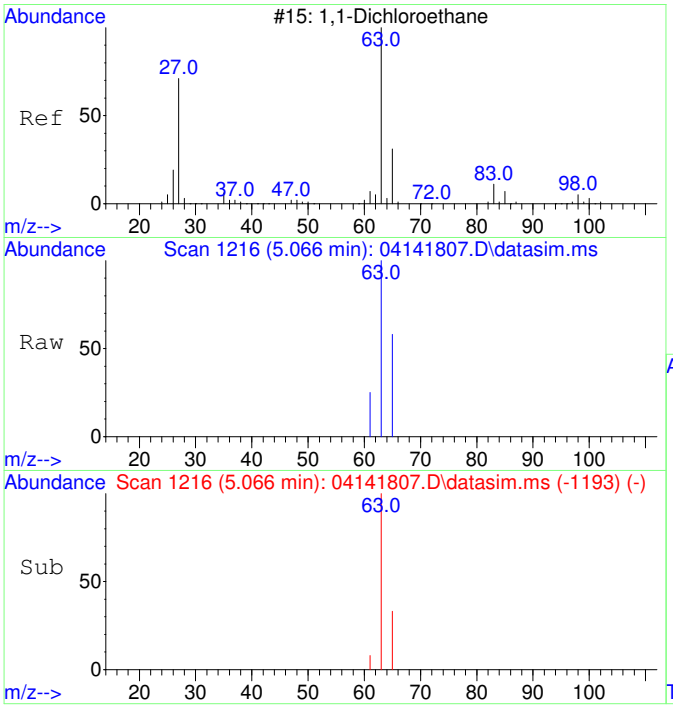


#3
trans-1,2-Dichloroethene
Concen: 156.06 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 580

Ion	Ratio	Lower	Upper
61	100		
63	30.7	2.0	62.0

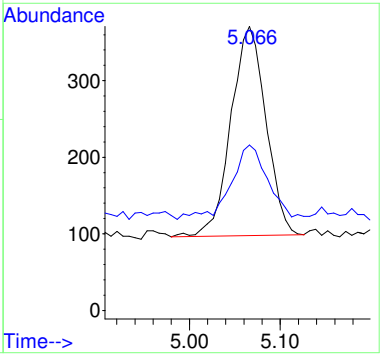


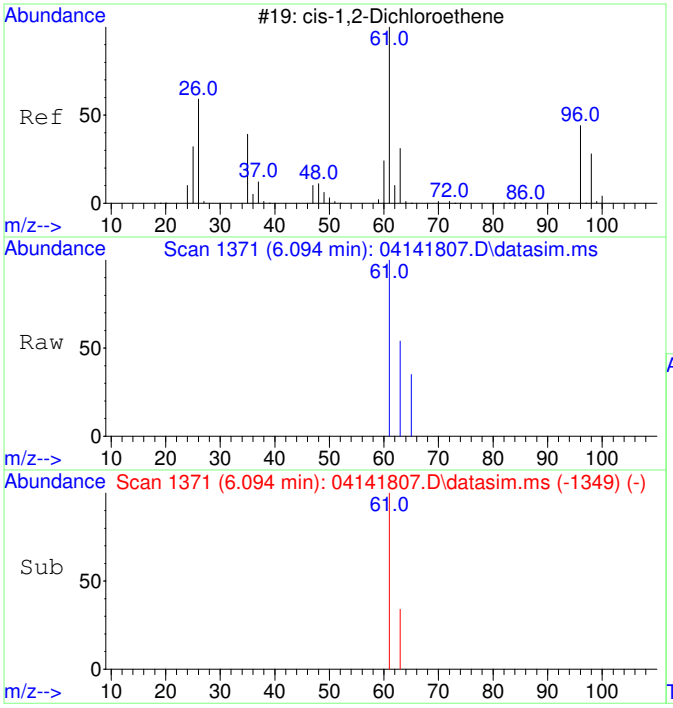


#4
1,1-Dichloroethane
Concen: 158.34 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 63 Resp: 732

Ion	Ratio	Lower	Upper
63	100		
65	37.6	1.8	61.8

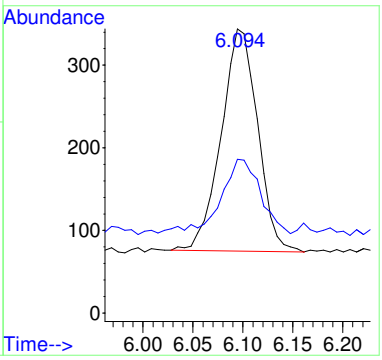


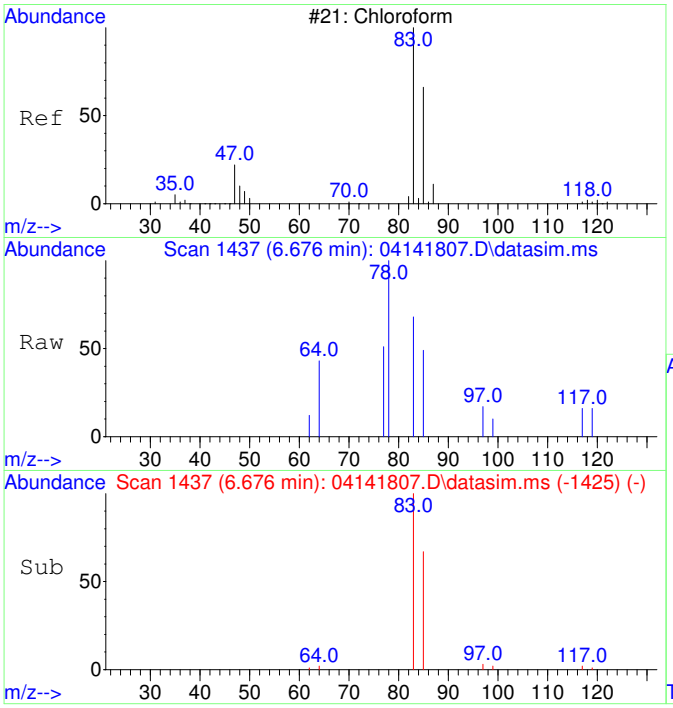


#5
cis-1,2-Dichloroethene
Concen: 149.56 ug/L
RT: 6.094 min Scan# 1371
Delta R.T. -0.007 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 685

Ion	Ratio	Lower	Upper
61	100		
63	36.5	2.0	62.0

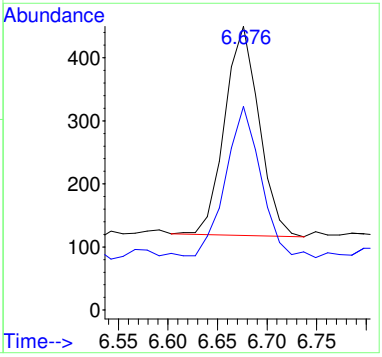


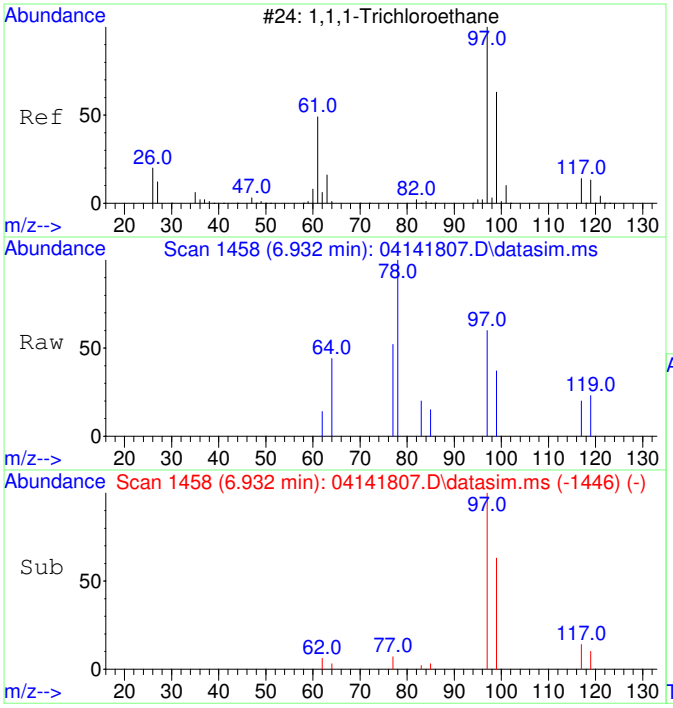


#6
Chloroform
Concen: 156.02 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 83 Resp: 799

Ion	Ratio	Lower	Upper
83	100		
85	74.8	34.2	94.2

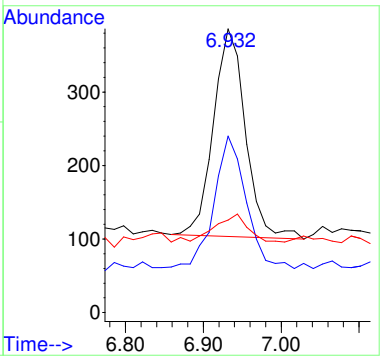


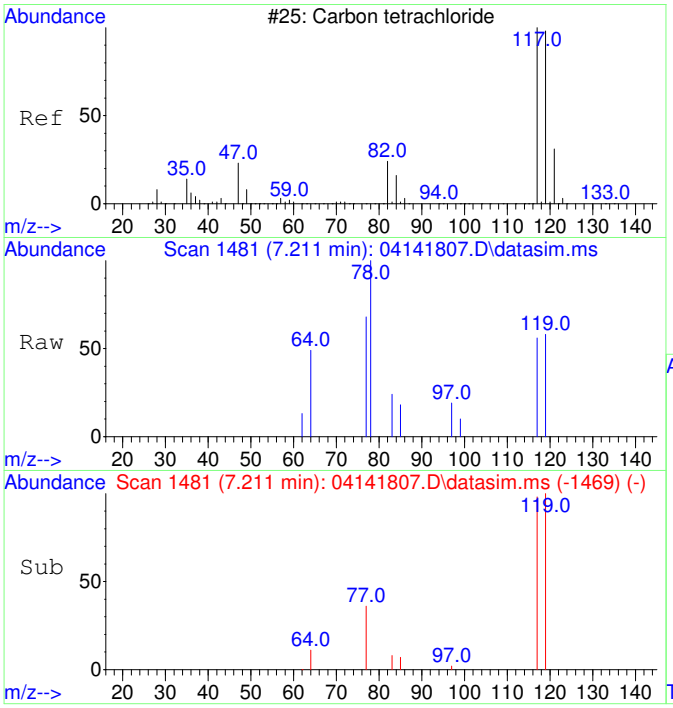


#7
1,1,1-Trichloroethane
Concen: 166.10 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 97 Resp: 807

Ion	Ratio	Lower	Upper
97	100		
99	63.1	34.5	94.5
117	13.3	0.0	42.6

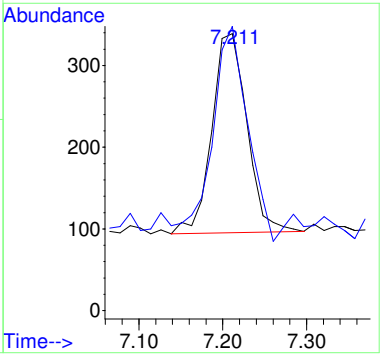


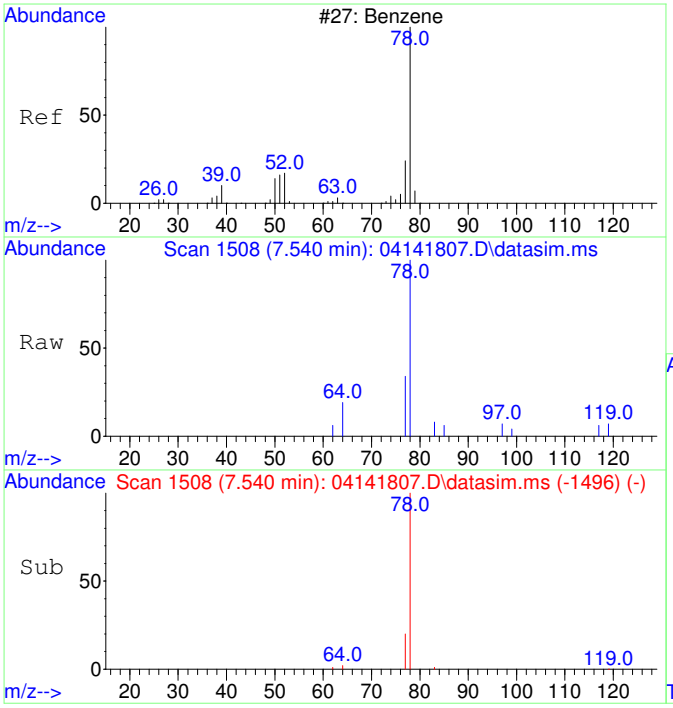


#8
Carbon tetrachloride
Concen: 158.53 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:117 Resp: 708

Ion	Ratio	Lower	Upper
117	100		
119	109.2	64.5	124.5

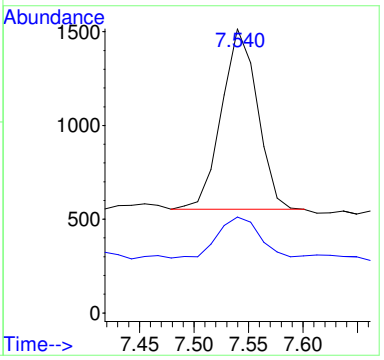


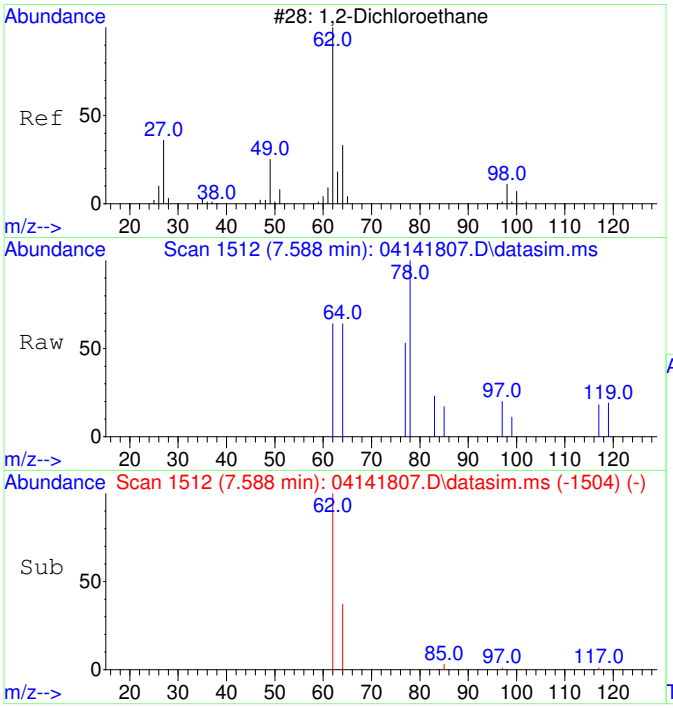


#9
Benzene
Concen: 176.80 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 78 Resp: 2206

Ion	Ratio	Lower	Upper
78	100		
77	26.9	0.0	53.6

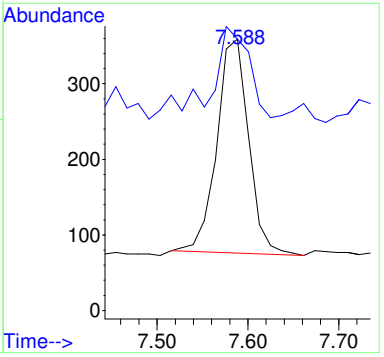


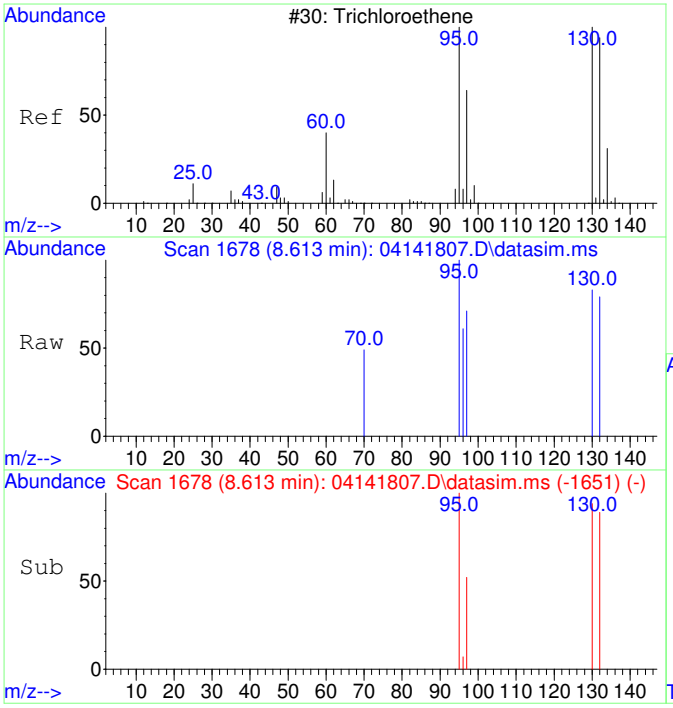


#10
1,2-Dichloroethane
Concen: 149.52 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 62 Resp: 685

Ion	Ratio	Lower	Upper
62	100		
64	44.7	1.8	61.8

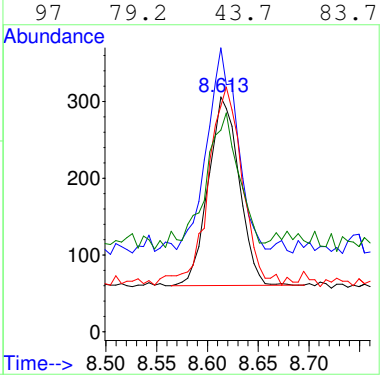


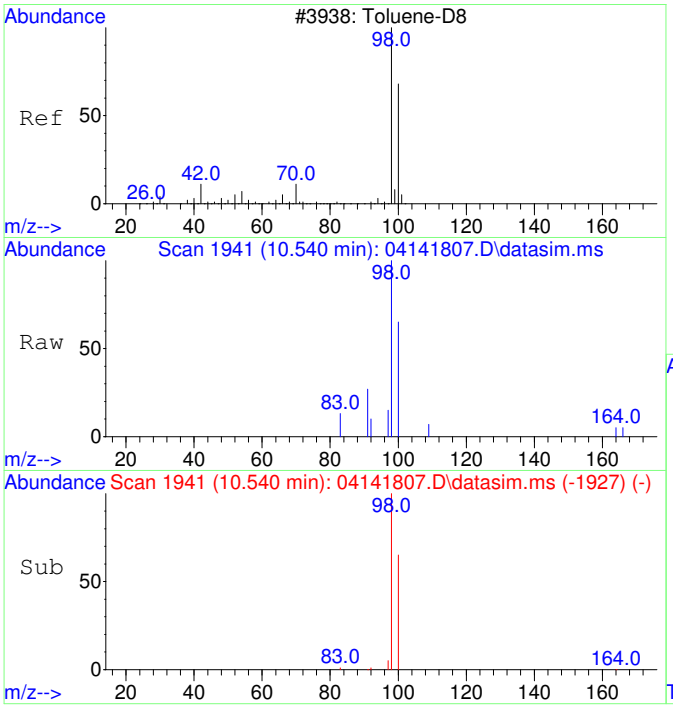


#11
Trichloroethene
Concen: 158.58 ug/L
RT: 8.613 min Scan# 1678
Delta R.T. -0.005 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:130 Resp: 520

Ion	Ratio	Lower	Upper
130	100		
95	103.7	68.8	128.8
132	116.2	78.6	118.6
97	79.2	43.7	83.7

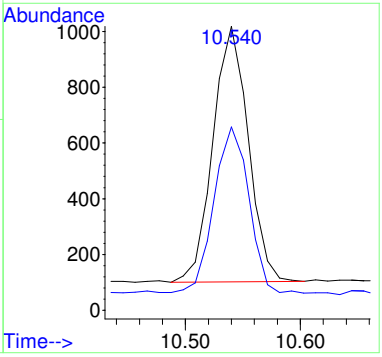


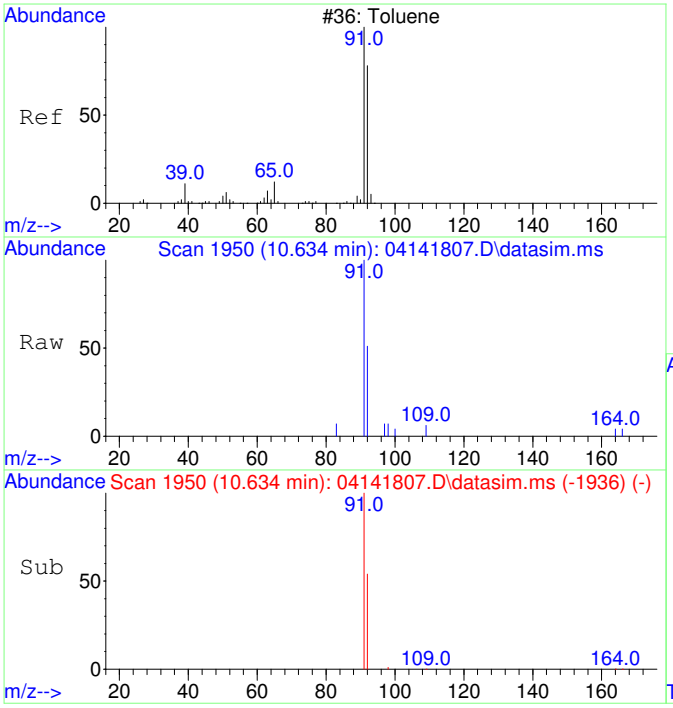


#12
Toluene-d8
Concen: 159.13 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 98 Resp: 1959

Ion	Ratio	Lower	Upper
98	100		
100	66.6	36.9	96.9

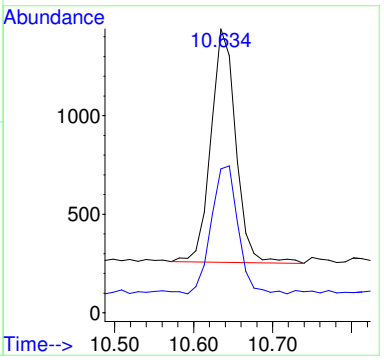


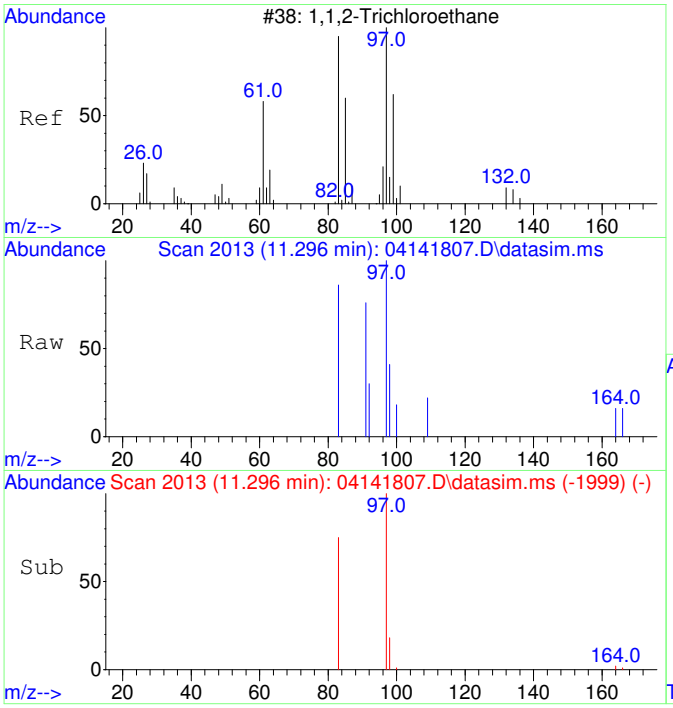


#13
Toluene
Concen: 158.66 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2579

Ion	Ratio	Lower	Upper
91	100		
92	59.1	28.8	88.8

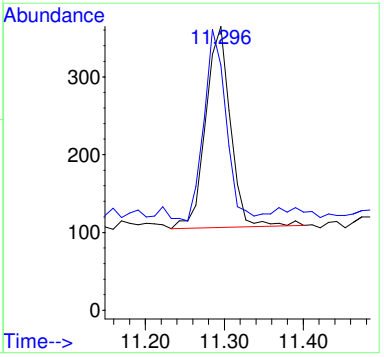


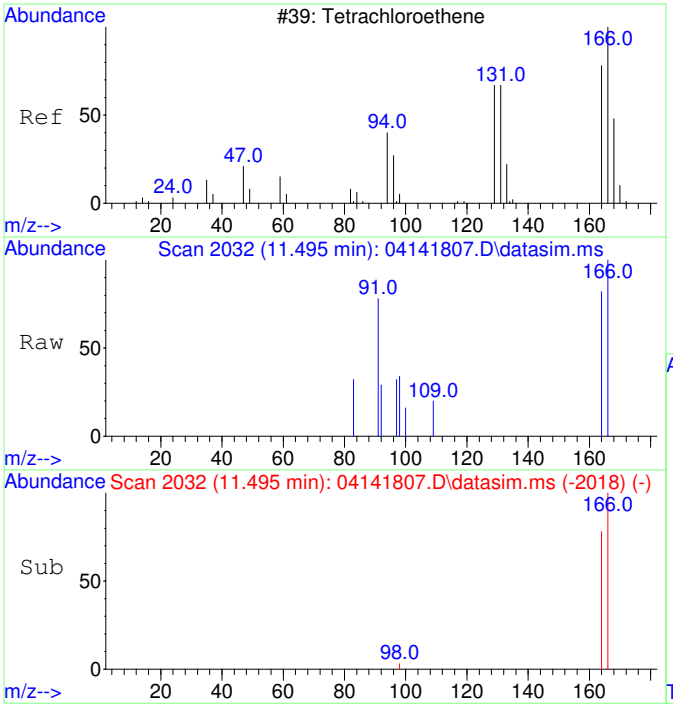


#14
1,1,2-Trichloroethane
Concen: 154.15 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 97 Resp: 563

Ion	Ratio	Lower	Upper
97	100		
83	81.3	54.3	114.3

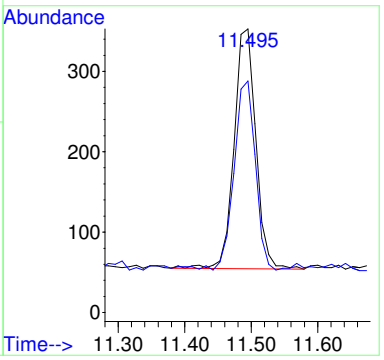


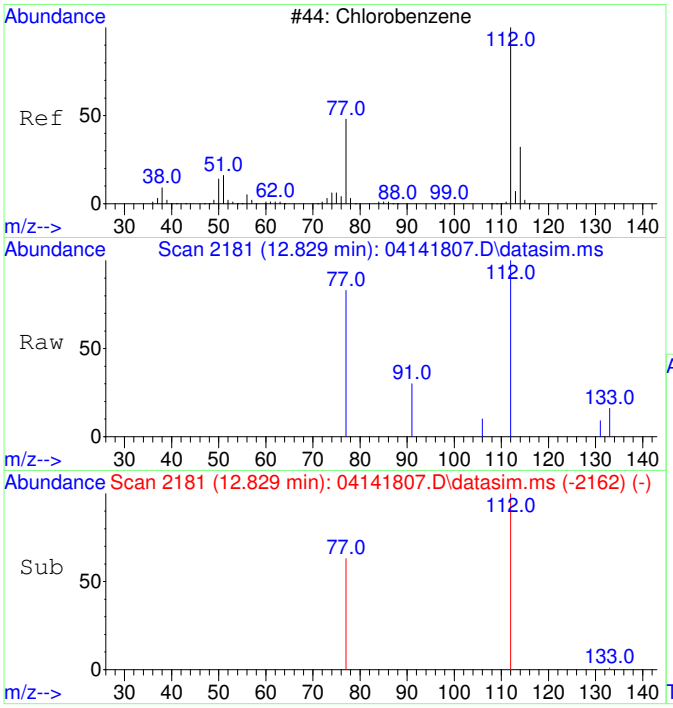


#15
Tetrachloroethene
Concen: 144.85 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:166 Resp: 678

Ion	Ratio	Lower	Upper
166	100		
164	76.3	48.0	108.0

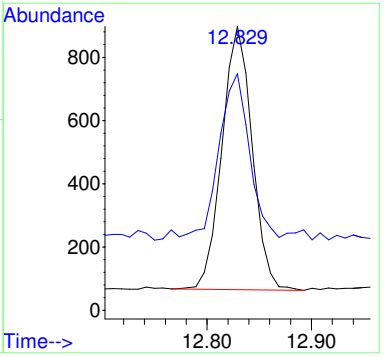


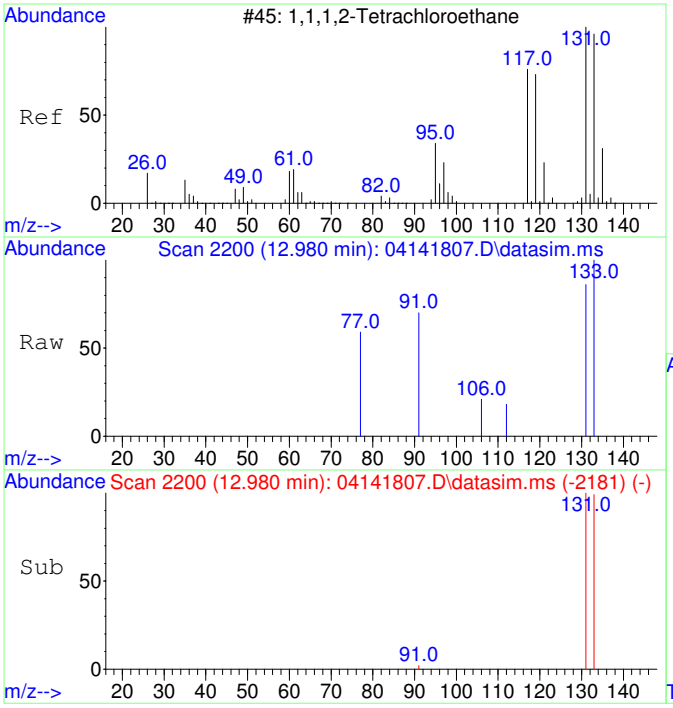


#16
Chlorobenzene
Concen: 148.20 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:112 Resp: 1666

Ion	Ratio	Lower	Upper
112	100		
77	61.1	29.4	89.4

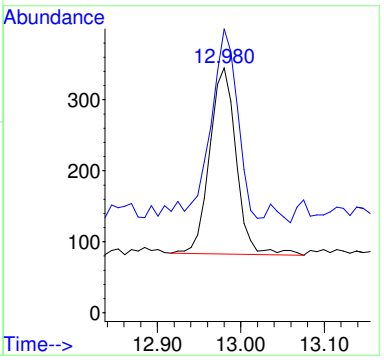


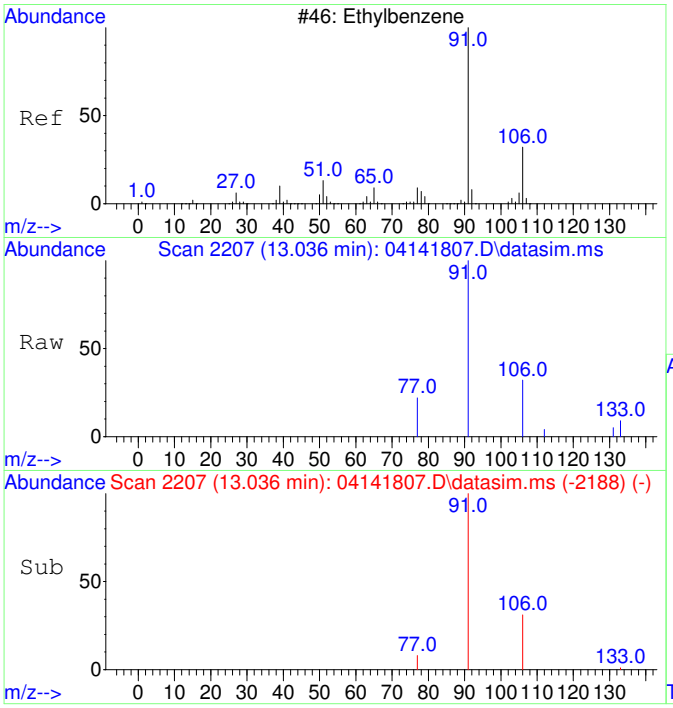


#17
1,1,1,2-Tetrachloroethane
Concen: 165.47 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:131 Resp: 581

Ion	Ratio	Lower	Upper
131	100		
133	104.1	65.1	125.1

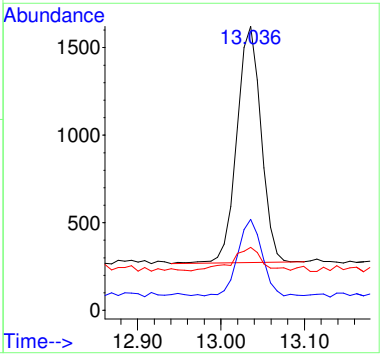


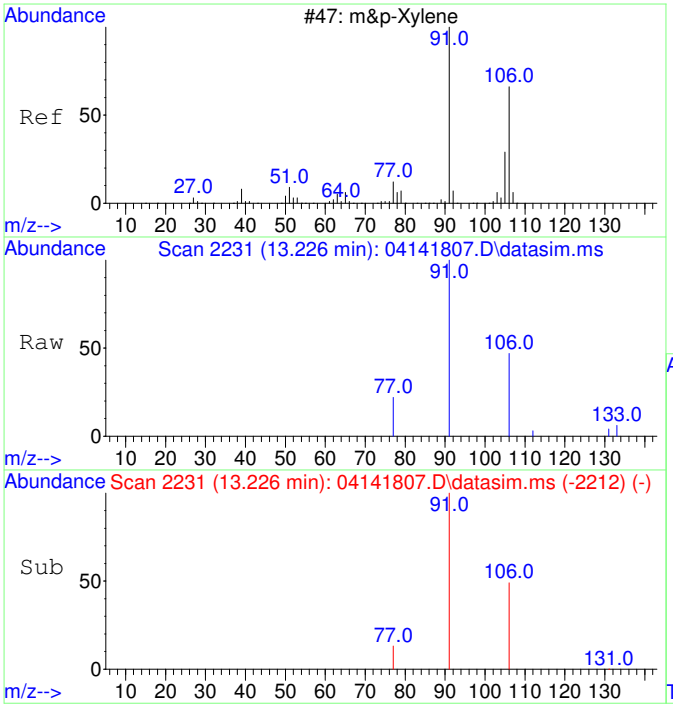


#18
Ethylbenzene
Concen: 142.23 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2721

Ion	Ratio	Lower	Upper
91	100		
106	32.1	1.8	61.8
77	12.0	0.0	38.7

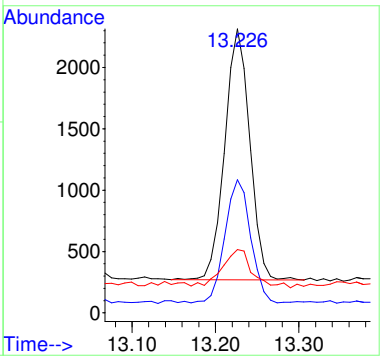


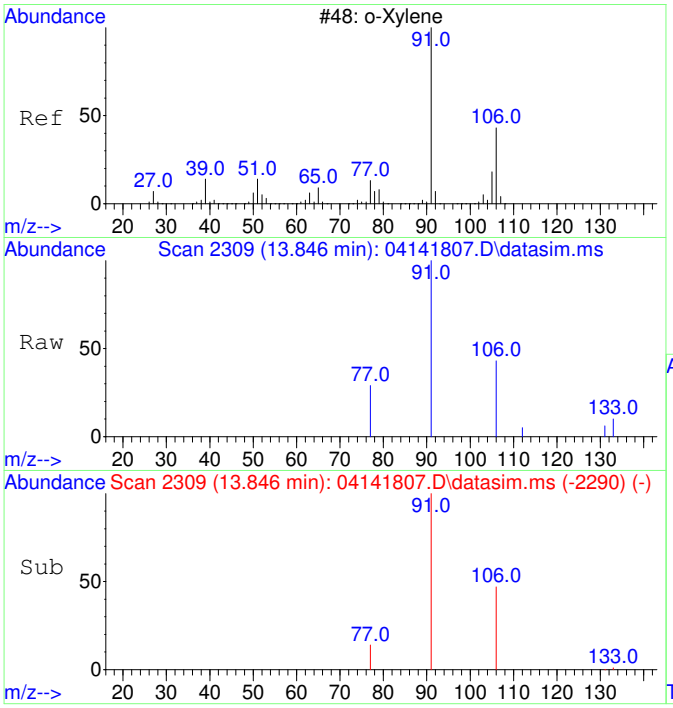


#19
m&p-Xylene
Concen: 286.21 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 4259

Ion	Ratio	Lower	Upper
91	100		
106	49.7	20.0	80.0
77	18.5	0.0	43.4

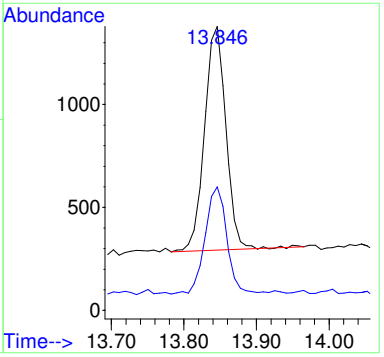


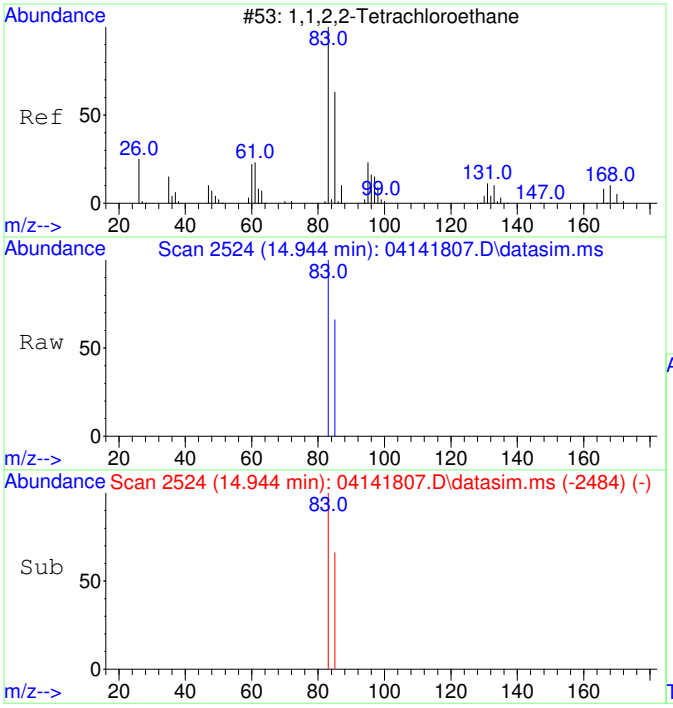


#20
o-Xylene
Concen: 141.95 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2237

Ion	Ratio	Lower	Upper
91	100		
106	48.6	16.9	76.9

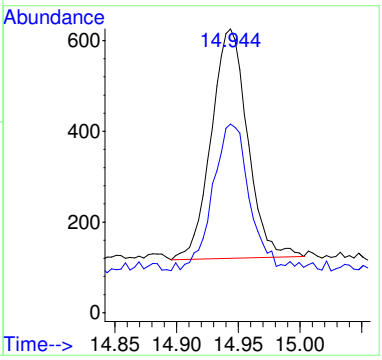


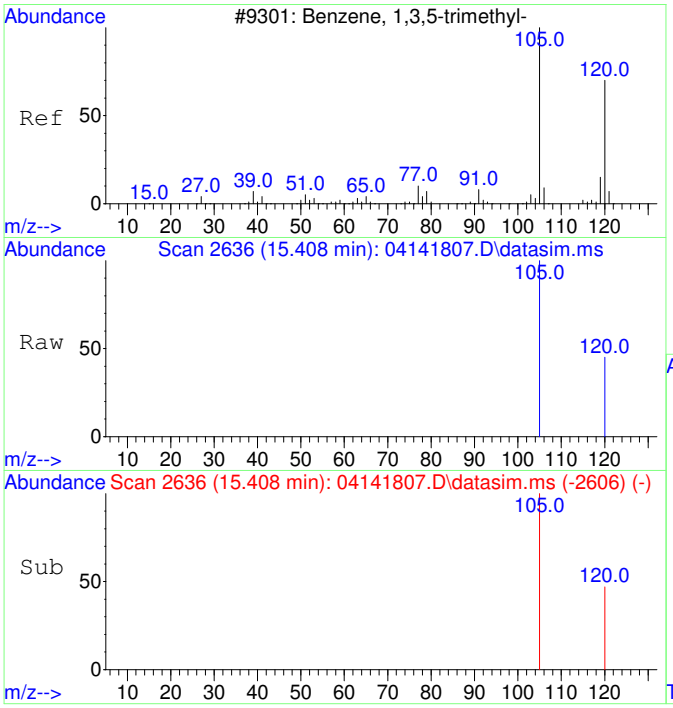


#21
1,1,2,2-Tetrachloroethane
Concen: 136.91 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 83 Resp: 1035

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.3	94.3

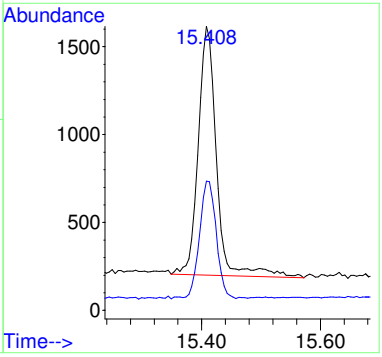


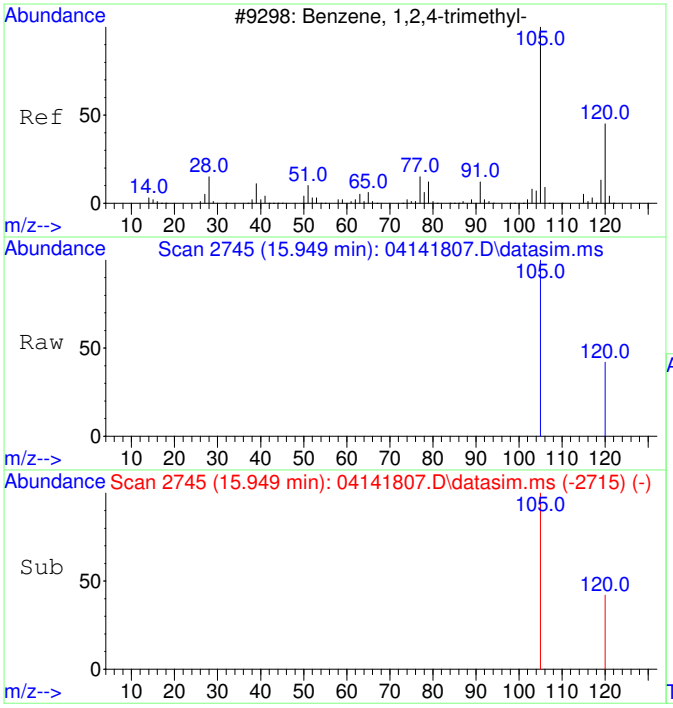


#22
1,3,5-Trimethylbenzene
Concen: 179.85 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:105 Resp: 3021

Ion	Ratio	Lower	Upper
105	100		
120	42.7	18.1	78.1

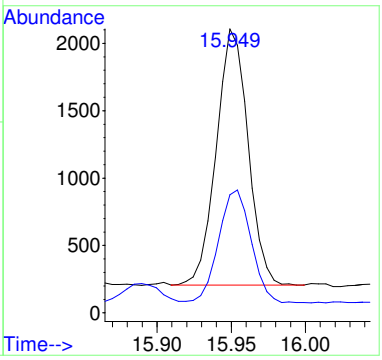


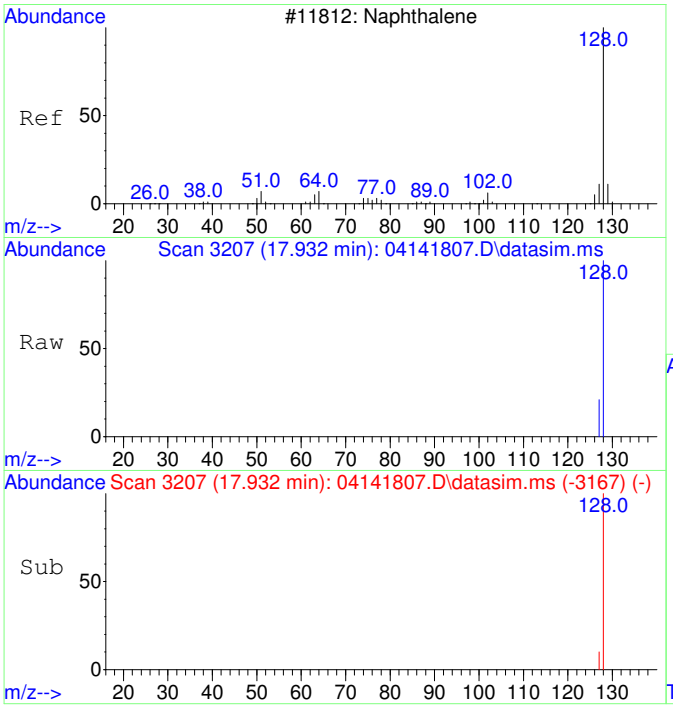


#23
1,2,4-Trimethylbenzene
Concen: 170.77 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:105 Resp: 2826

Ion	Ratio	Lower	Upper
105	100		
120	44.2	14.5	74.5

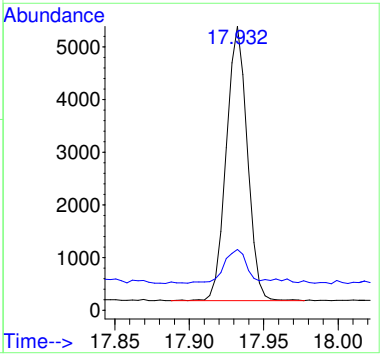


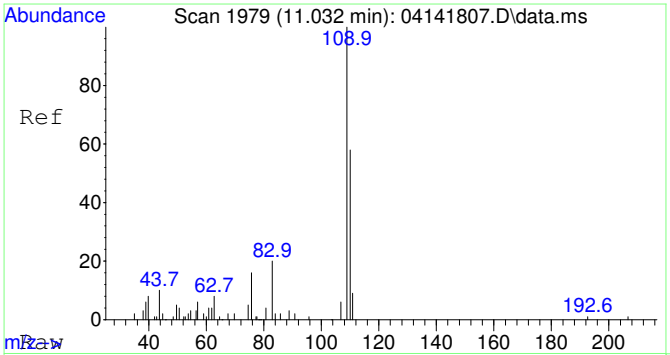


#24
Naphthalene
Concen: 196.75 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:128 Resp: 5115

Ion	Ratio	Lower	Upper
128	100		
127	15.5	0.0	42.7

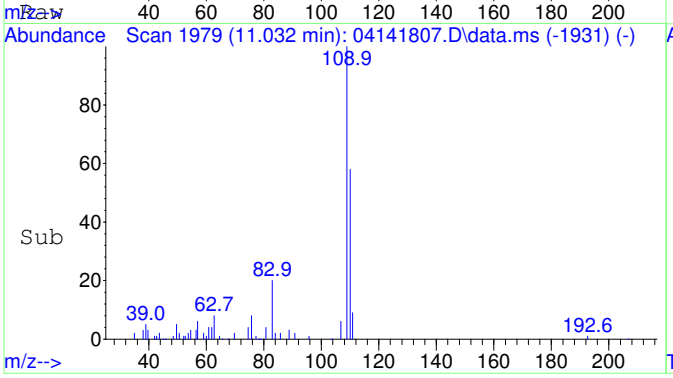


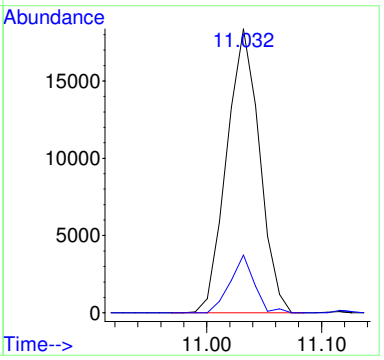


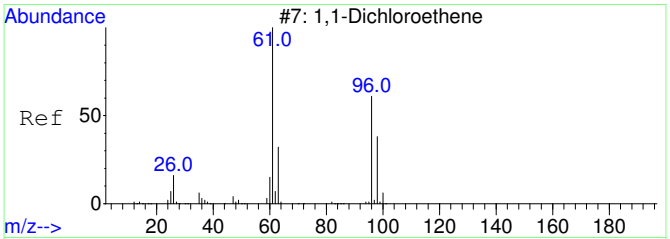
#25
2-Fluorotoluene SCAN
Concen: 4033.78 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:109 Resp: 36593

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	49.2



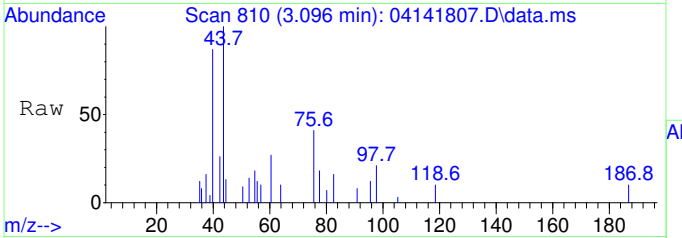


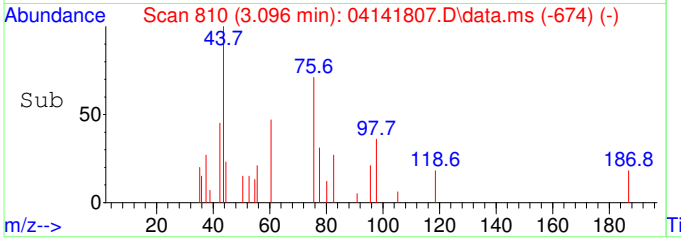


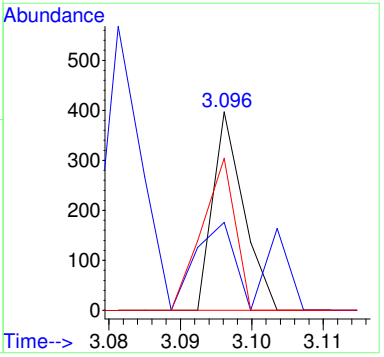
#26
1,1-Dichloroethene SCAN
Concen: 49.87 ug/L
RT: 3.096 min Scan# 810
Delta R.T. 0.004 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

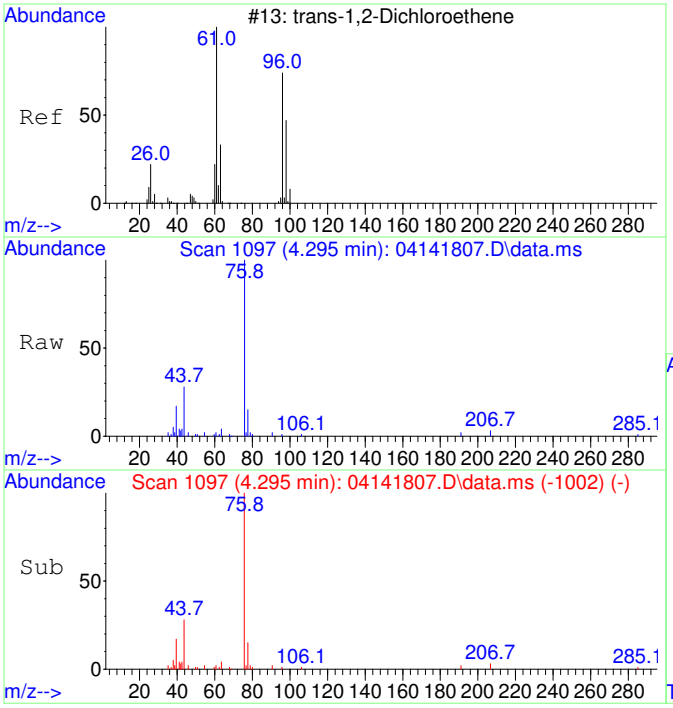
Tgt Ion: 61 Resp: 119

Ion	Ratio	Lower	Upper
61	100		
96	156.3	21.6	81.6#
98	83.2	7.5	67.5#





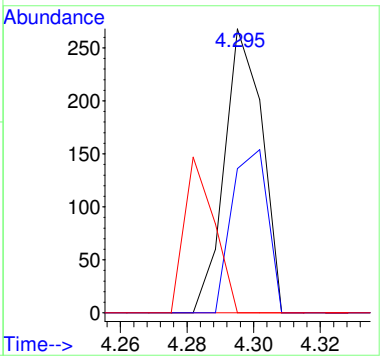


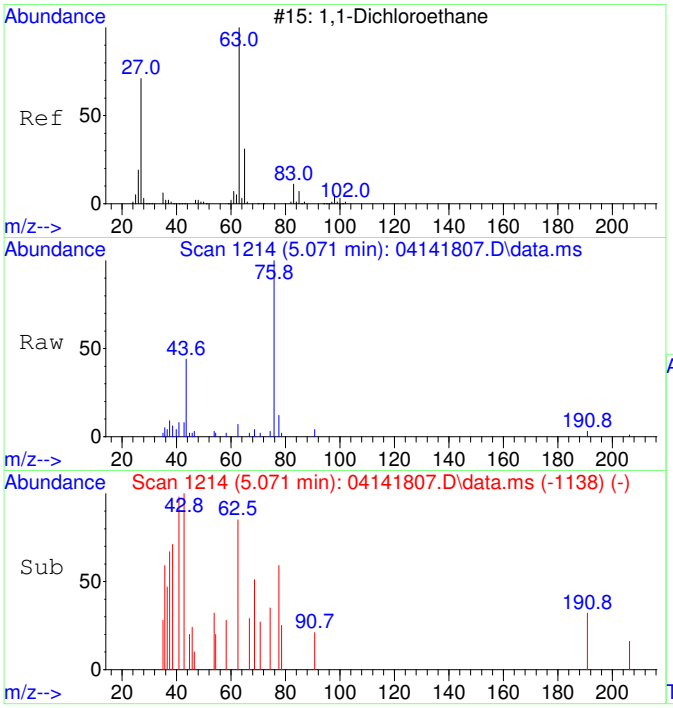


#27
trans-1,2-Dichloroethene SCAN
Concen: 81.13 ug/L
RT: 4.295 min Scan# 1097
Delta R.T. -0.013 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 211

Ion	Ratio	Lower	Upper
61	100		
96	54.5	51.8	111.8
98	43.6	22.7	82.7

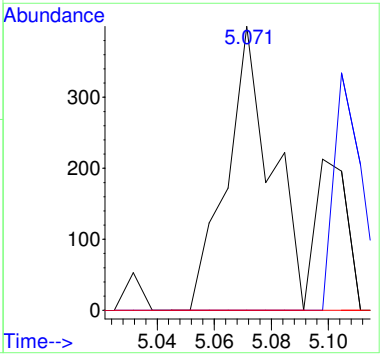


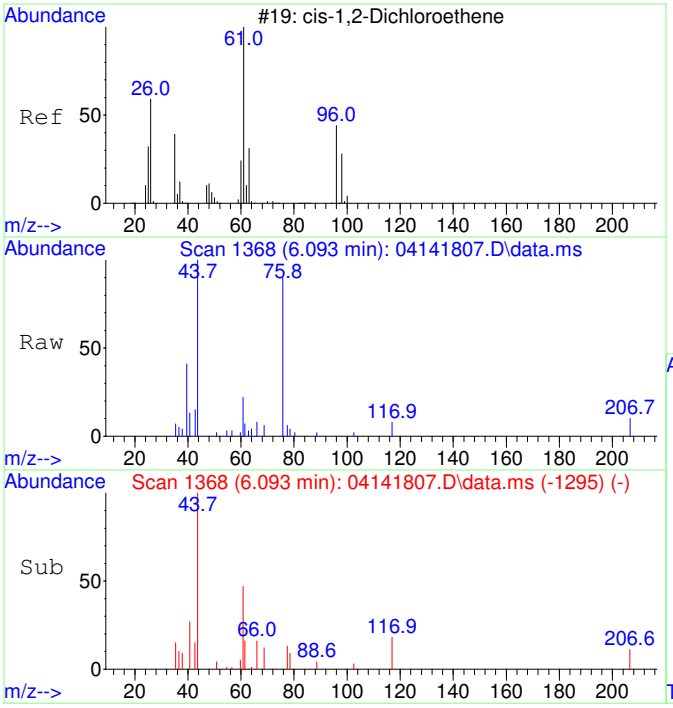


#28
1,1-Dichloroethane SCAN
Concen: 147.68 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 63 Resp: 437

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	0.0	0.0	38.2

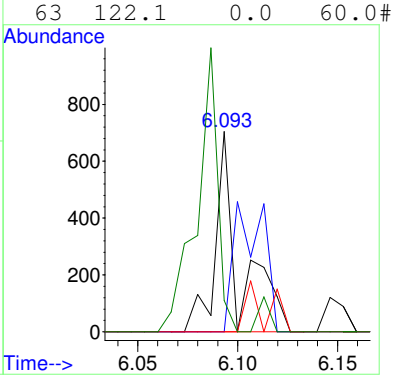


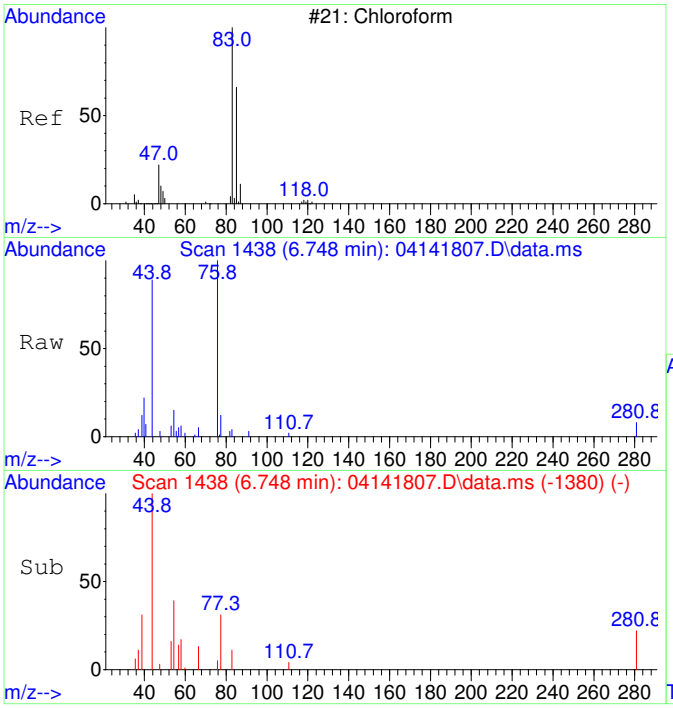


#29
cis-1,2-Dichloroethene SCAN
Concen: 203.66 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.013 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 61 Resp: 596

Ion	Ratio	Lower	Upper
61	100		
96	78.2	49.4	109.4
98	22.0	9.5	69.5
63	122.1	0.0	60.0#

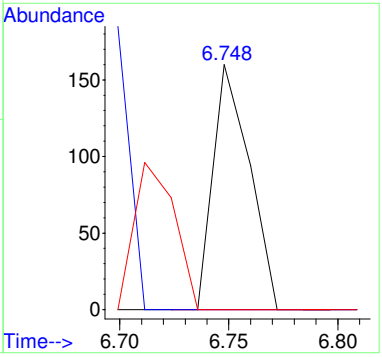


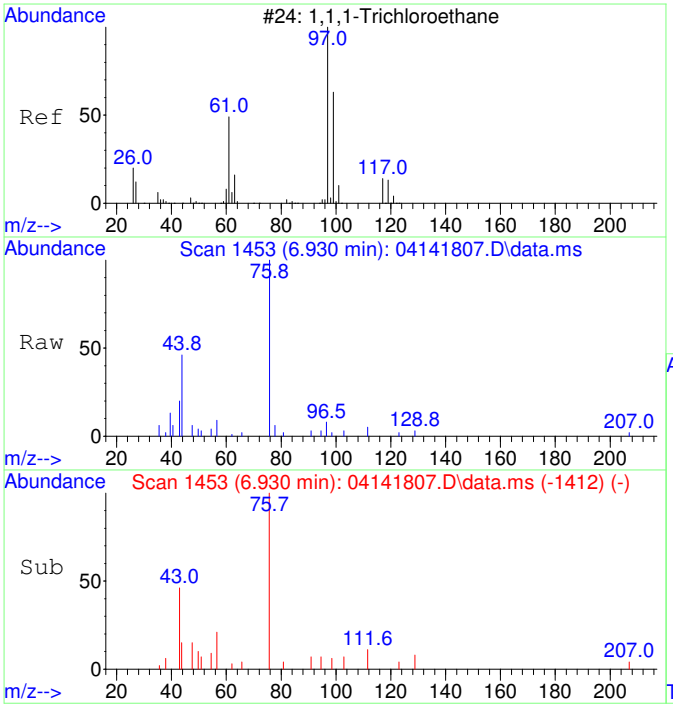


#30
Chloroform SCAN
Concen: 60.16 ug/L
RT: 6.748 min Scan# 1438
Delta R.T. 0.073 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 83 Resp: 185

Ion	Ratio	Lower	Upper
83	100		
85	0.0	47.8	107.8#
47	0.0	8.2	68.2#

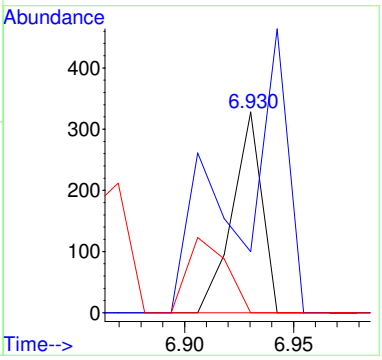


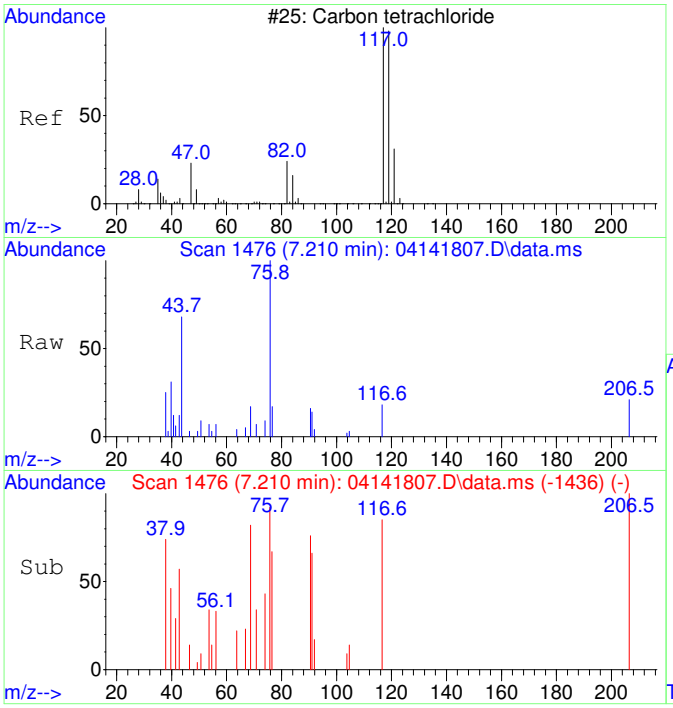


#31
1,1,1-Trichloroethane SCAN
Concen: 105.90 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 97 Resp: 309

Ion	Ratio	Lower	Upper
97	100		
99	231.1	18.3	78.3#
61	0.0	16.3	76.3#

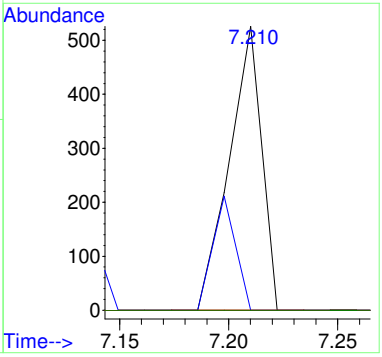


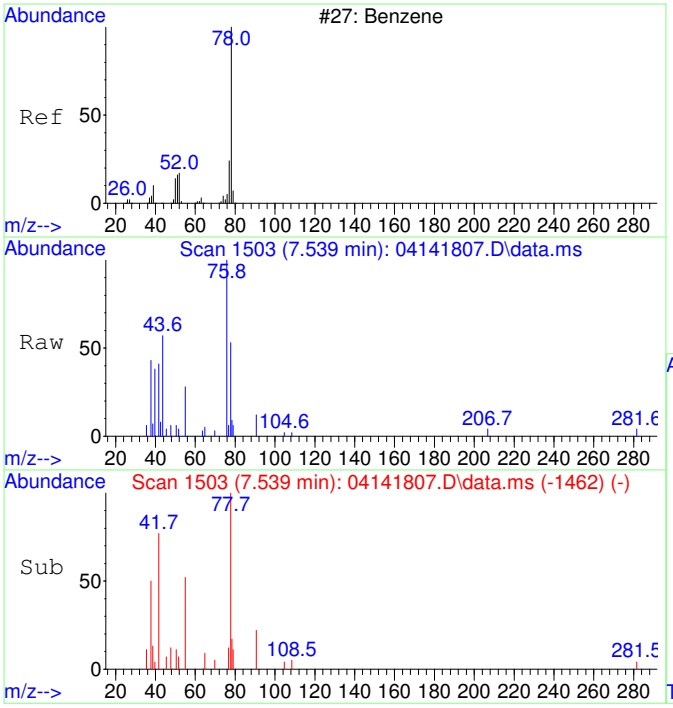


#32
Carbon tetrachloride SCAN
Concen: 252.14 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:117 Resp: 543

Ion	Ratio	Lower	Upper
117	100		
119	28.4	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

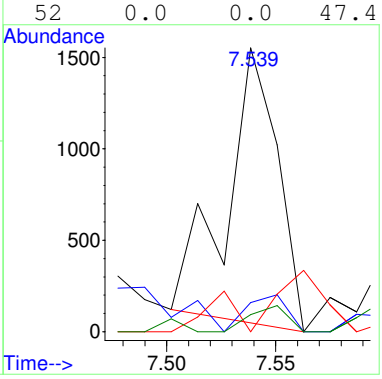


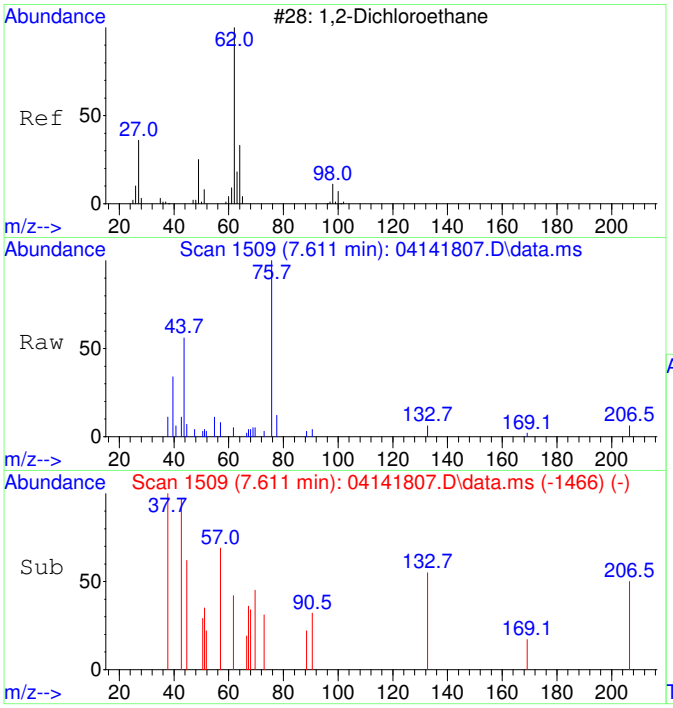


#33
Benzene SCAN
Concen: 293.26 ug/L
RT: 7.539 min Scan# 1503
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 78 Resp: 2437

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	9.0	0.0	47.2
52	0.0	0.0	47.4

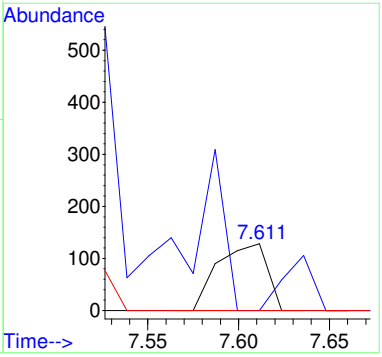


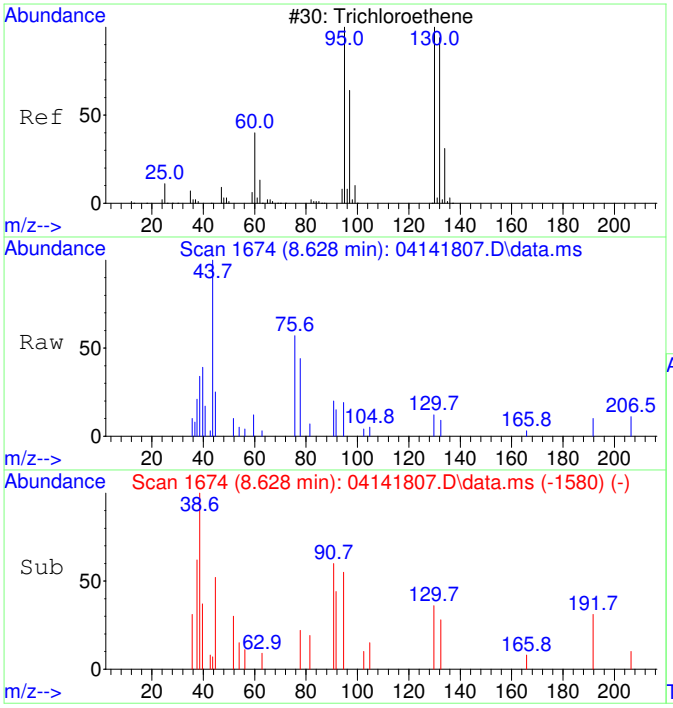


#34
1,2-Dichloroethane SCAN
Concen: 77.28 ug/L
RT: 7.611 min Scan# 1509
Delta R.T. 0.024 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 62 Resp: 243

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	0.0	1.2	61.2#

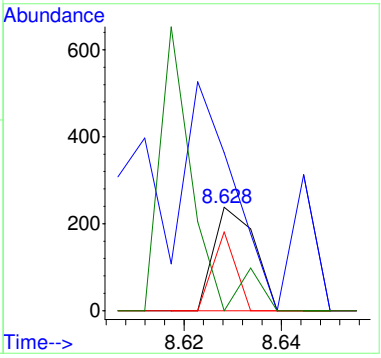


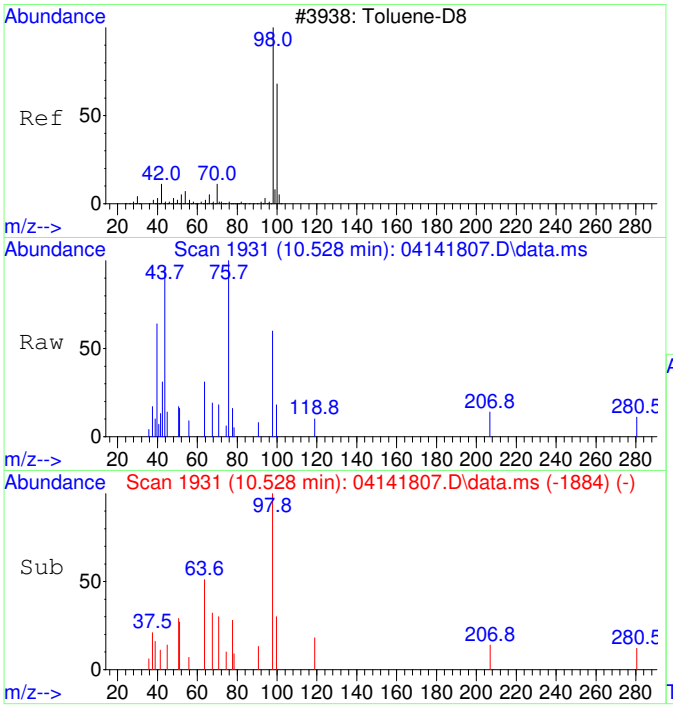


#35
Trichloroethene SCAN
Concen: 80.35 ug/L
RT: 8.628 min Scan# 1674
Delta R.T. 0.011 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:130 Resp: 139

Ion	Ratio	Lower	Upper
130	100		
95	200.0	71.3	131.3#
132	42.4	75.1	135.1#
97	271.2	41.3	101.3#

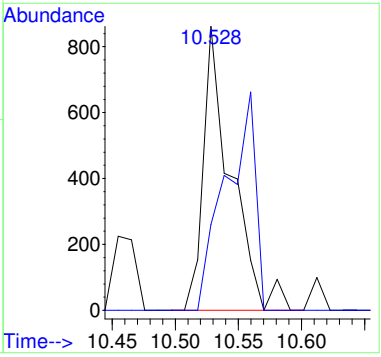


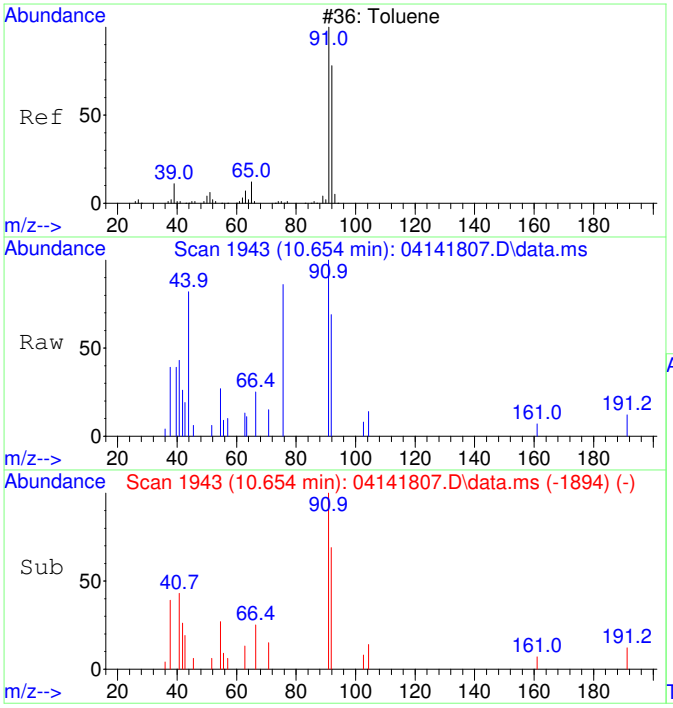


#36
Toluene-d8 SCAN
Concen: 182.20 ug/L
RT: 10.528 min Scan# 1931
Delta R.T. -0.010 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 98 Resp: 1307

Ion	Ratio	Lower	Upper
98	100		
100	0.0	37.3	97.3#

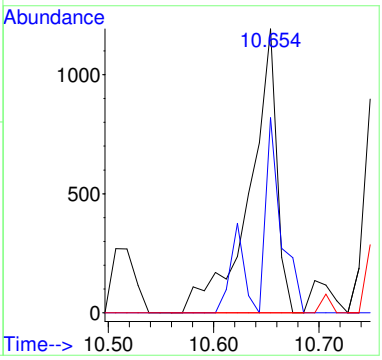


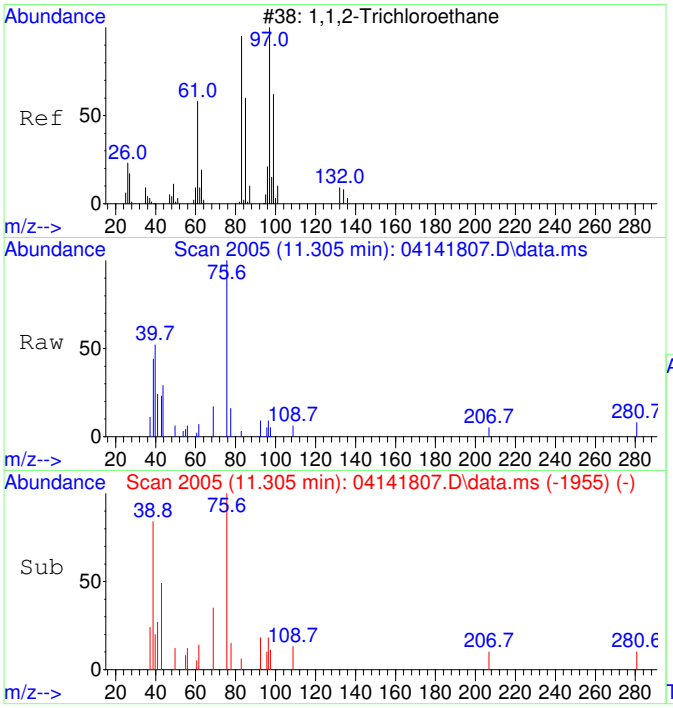


#37
Toluene SCAN
Concen: 216.99 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.011 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2136

Ion	Ratio	Lower	Upper
91	100		
92	39.0	39.1	99.1#
65	0.0	0.0	43.8

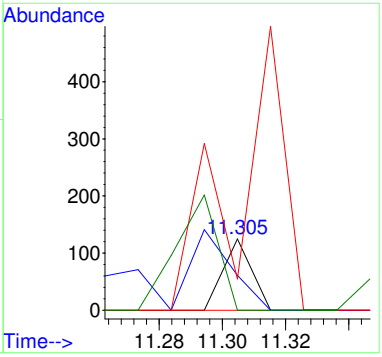


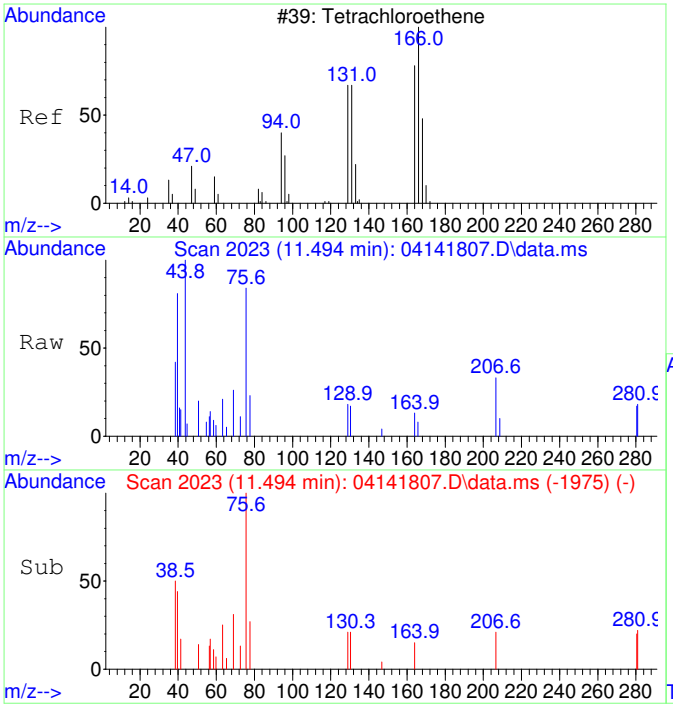


#38
1,1,2-Trichloroethane SCAN
Concen: 33.71 ug/L
RT: 11.305 min Scan# 2005
Delta R.T. 0.021 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 97 Resp: 79

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	672.2	29.7	89.7#
99	0.0	26.5	86.5#

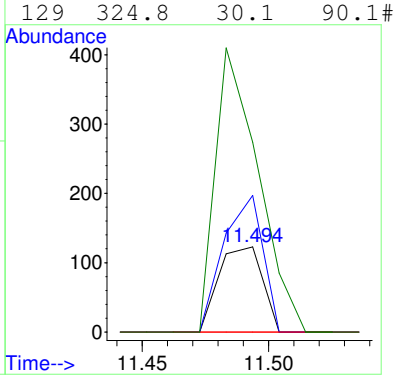


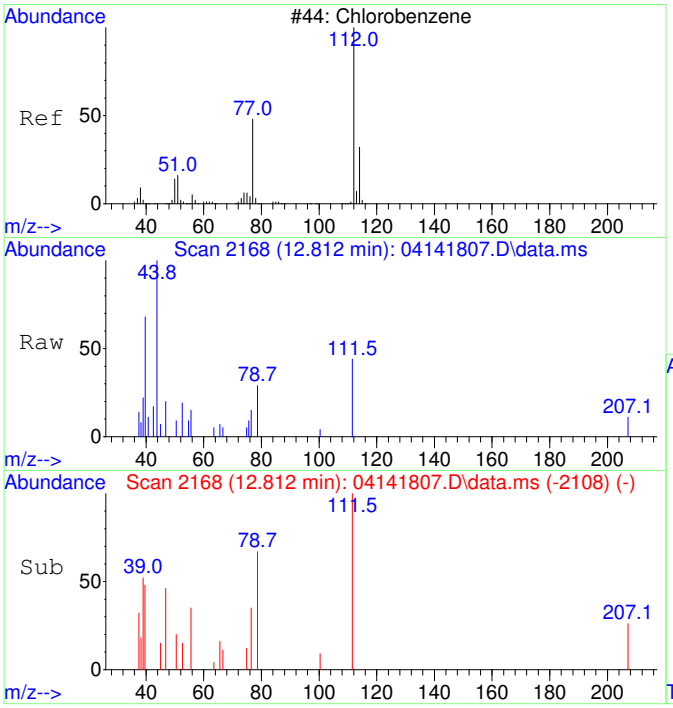


#39
Tetrachloroethene SCAN
Concen: 76.89 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:166 Resp: 149

Ion	Ratio	Lower	Upper
166	100		
164	143.6	49.8	109.8#
131	0.0	42.0	102.0#
129	324.8	30.1	90.1#

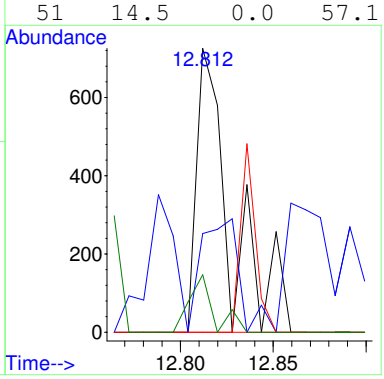


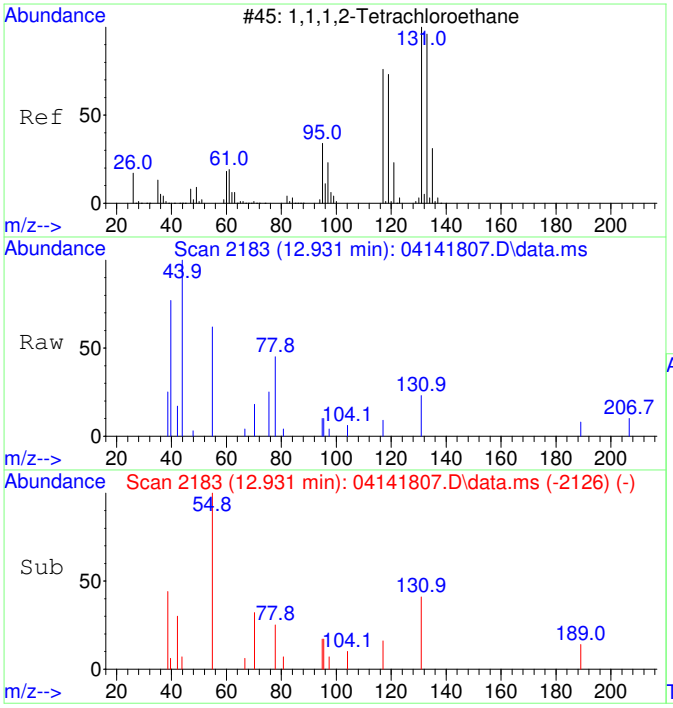


#40
Chlorobenzene SCAN
Concen: 144.70 ug/L
RT: 12.812 min Scan# 2168
Delta R.T. -0.024 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:112 Resp: 925

Ion	Ratio	Lower	Upper
112	100		
77	0.0	39.7	99.7#
114	0.0	1.2	61.2#
51	14.5	0.0	57.1

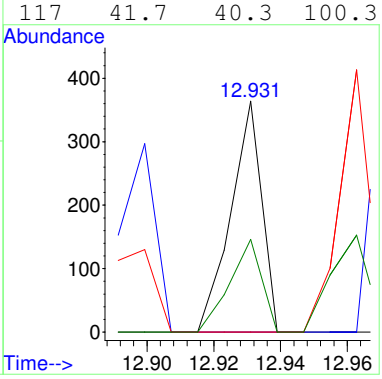


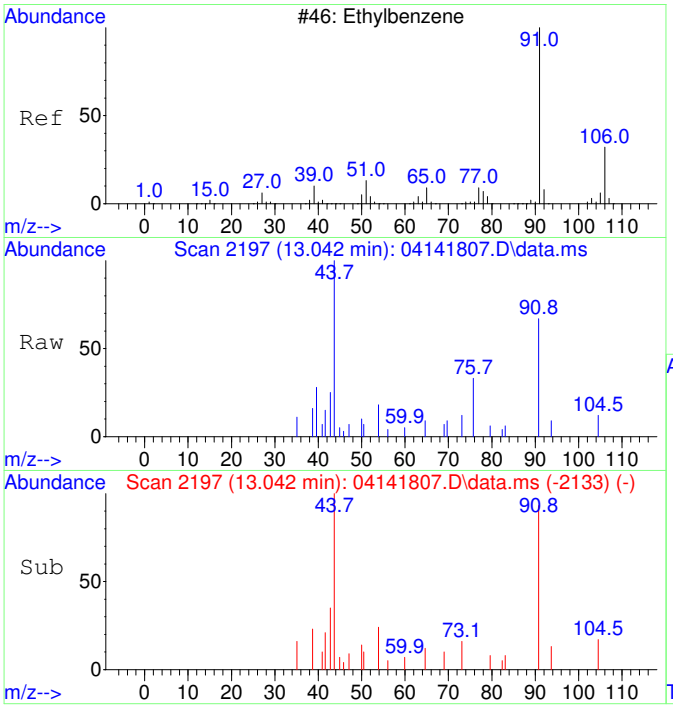


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 109.50 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. -0.048 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:131 Resp: 235

Ion	Ratio	Lower	Upper
131	100		
133	0.0	78.7	138.7#
119	0.0	43.0	103.0#
117	41.7	40.3	100.3

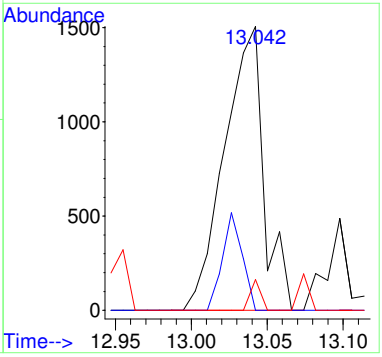


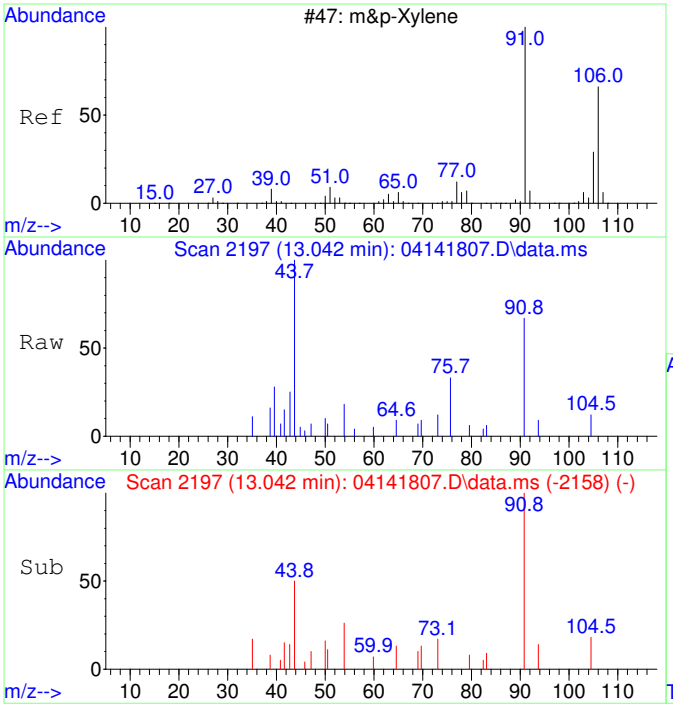


#42
Ethylbenzene SCAN
Concen: 265.26 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. 0.008 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2707

Ion	Ratio	Lower	Upper
91	100		
106	17.4	1.8	61.8
51	2.9	0.0	45.4

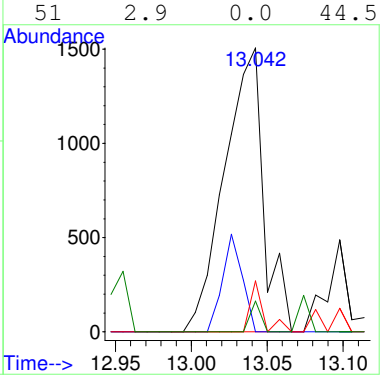


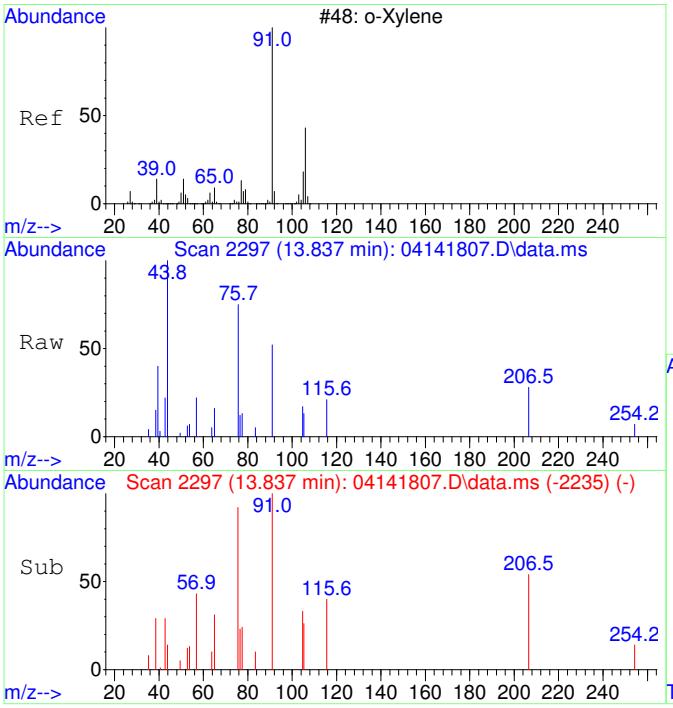


#43
m&p-Xylene SCAN
Concen: 158.52 ug/L
RT: 13.042 min Scan# 2197
Delta R.T. -0.191 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2707

Ion	Ratio	Lower	Upper
91	100		
106	17.4	14.6	74.6
105	5.9	0.0	52.8
51	2.9	0.0	44.5

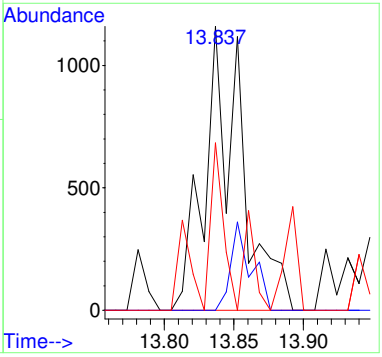


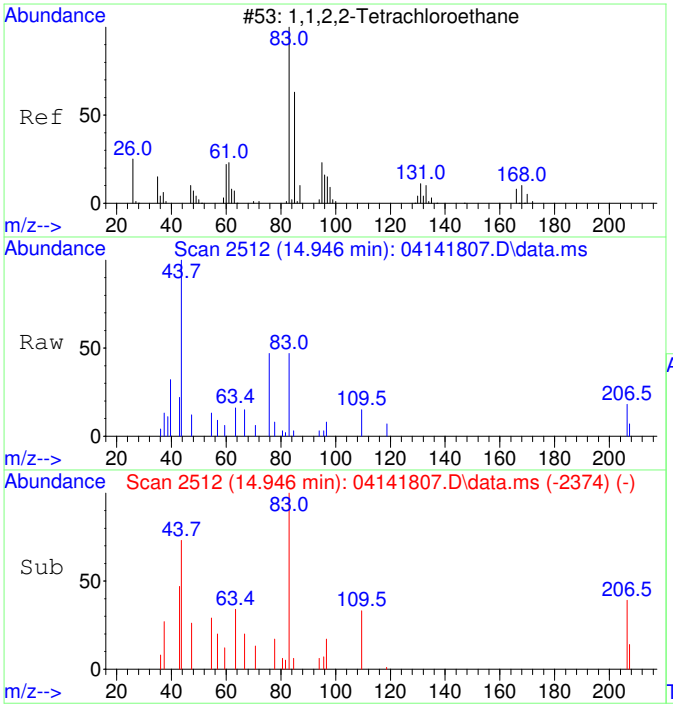


#44
o-Xylene SCAN
Concen: 221.15 ug/L
RT: 13.837 min Scan# 2297
Delta R.T. -0.008 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 91 Resp: 2123

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	32.3	0.0	54.9

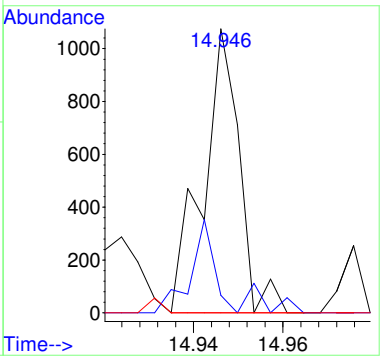


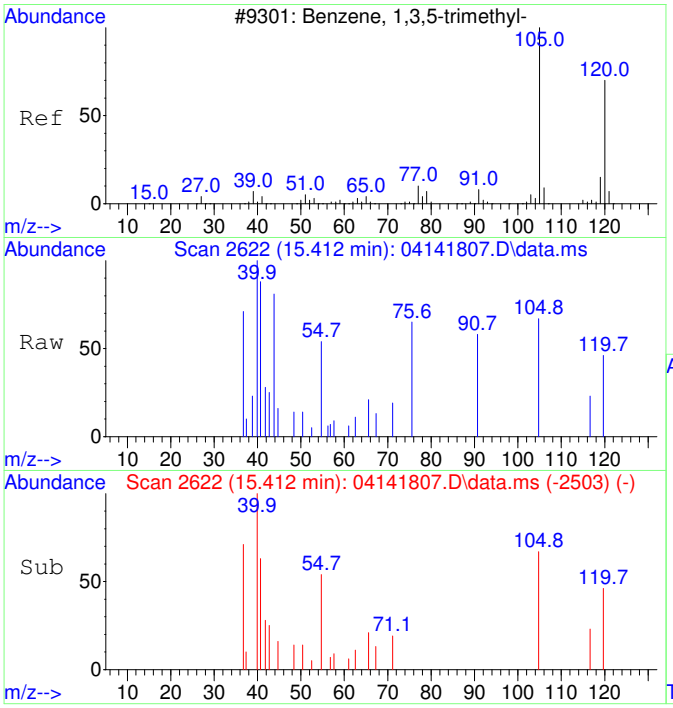


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 94861.64 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 83 Resp: 609

Ion	Ratio	Lower	Upper
83	100		
85	21.2	32.4	92.4#
95	0.0	0.0	41.2

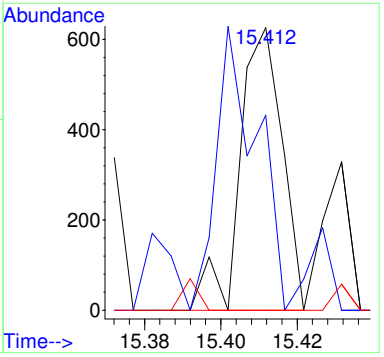


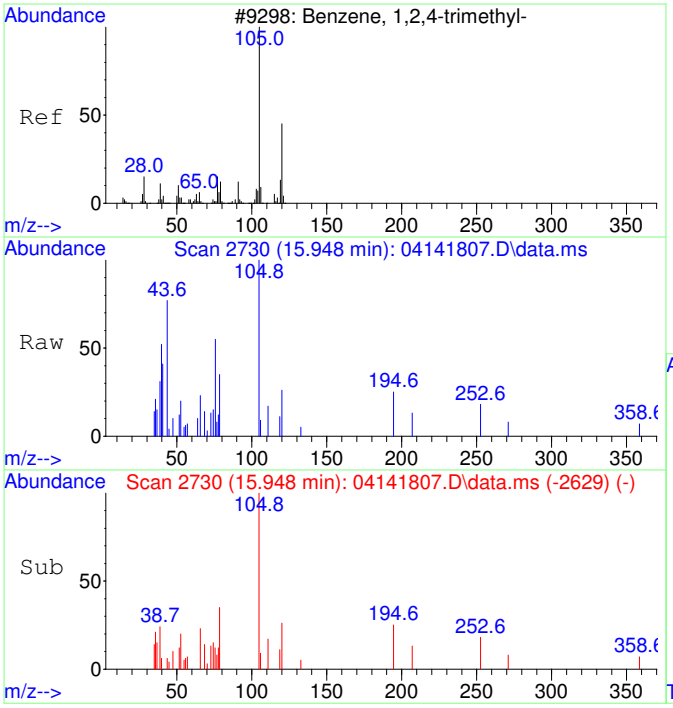


#46
1,3,5-Trimethylbenzene SCAN
Concen: 58.91 ug/L
RT: 15.412 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:105 Resp: 484

Ion	Ratio	Lower	Upper
105	100		
120	87.8	16.1	76.1#
119	0.0	0.0	41.8

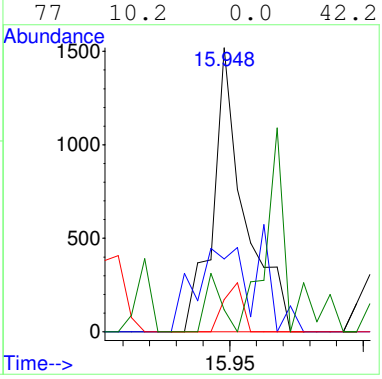


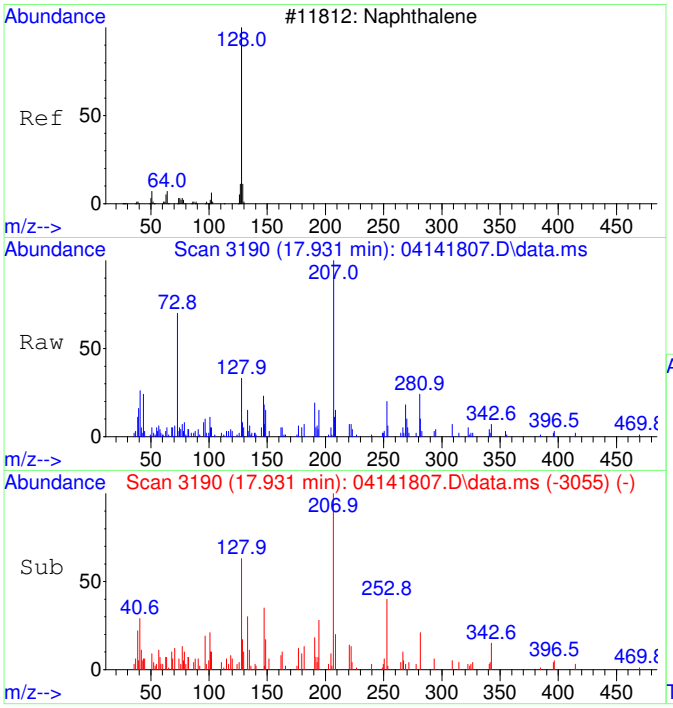


#47
1,2,4-Trimethylbenzene SCAN
Concen: 149.56 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:105 Resp: 1251

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.8	72.8#
119	10.3	0.0	42.5
77	10.2	0.0	42.2

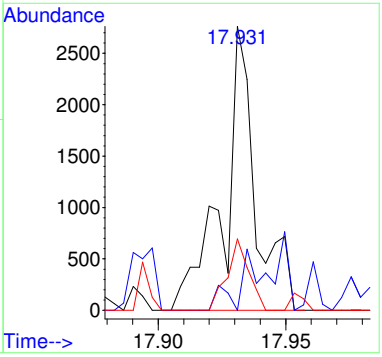


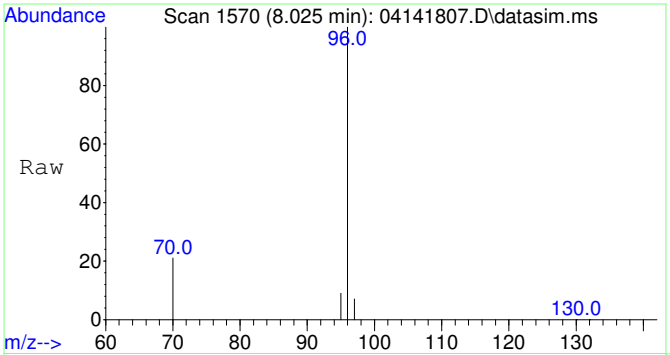


#48
Naphthalene SCAN
Concen: 208.27 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion:128 Resp: 2420

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	45.2
129	17.1	0.0	42.0

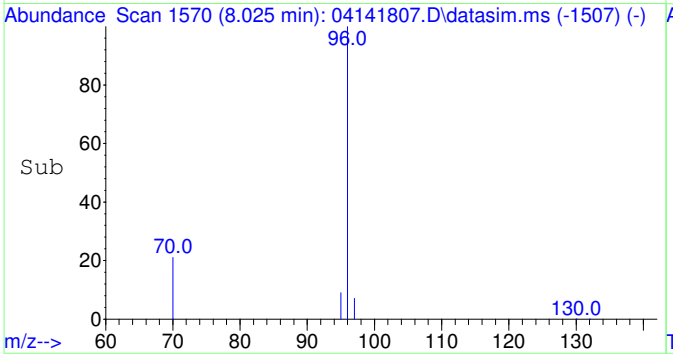


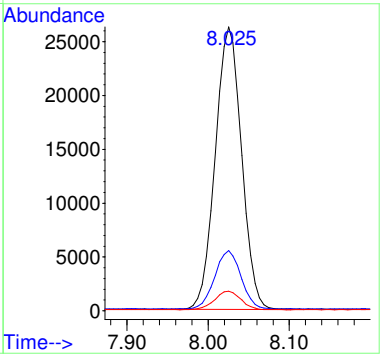


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141807.D
Acq: 14 Apr 2018 13:14

Tgt Ion: 96 Resp: 59057

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.6	0.0	36.7





S18D063-CAL6

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141808.D
Acq On : 14 Apr 2018 13:38
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL6
Misc : 1745078 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 16 09:28:24 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

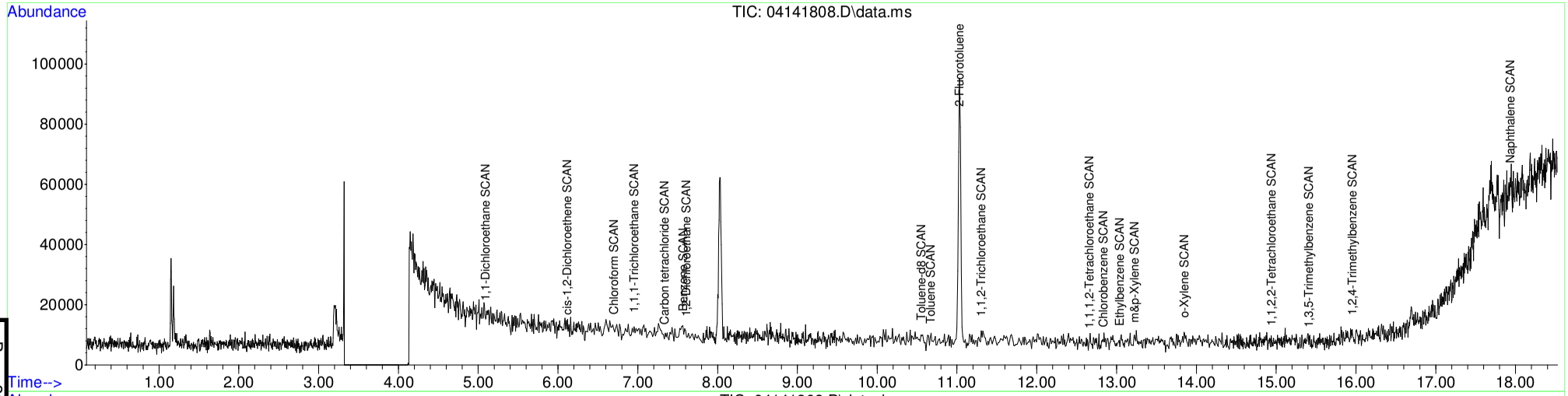
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	139779	5000.00 ug/L	0.00
49) Fluorobenzene	8.031	96	104972	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	1209	53.38 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 1.07%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	848	126.77 ug/L	99
3] trans-1,2-Dichloroethene	4.310	61	312	45.63 ug/L	73
4] 1,1-Dichloroethane	5.073	63	464	54.56 ug/L	90
5] cis-1,2-Dichloroethene	6.101	61	390	46.29 ug/L	84
6] Chloroform	6.676	83	547	58.06 ug/L	96
7] 1,1,1-Trichloroethane	6.931	97	475	53.15 ug/L	85
8] Carbon tetrachloride	7.211	117	433	52.71 ug/L	96
9] Benzene	7.540	78	1734	75.54 ug/L	80
10] 1,2-Dichloroethane	7.588	62	415	49.24 ug/L	64
11] Trichloroethene	8.618	130	323	53.55 ug/L	82
13] Toluene	10.634	91	1825	61.03 ug/L	91
14] 1,1,2-Trichloroethane	11.295	97	354	52.69 ug/L	67
15] Tetrachloroethene	11.495	166	419	48.66 ug/L	92
16] Chlorobenzene	12.829	112	1069	51.69 ug/L	89
17] 1,1,1,2-Tetrachloroethane	12.980	131	355	54.96 ug/L	80
18] Ethylbenzene	13.035	91	1749	49.70 ug/L	89
19] m&p-Xylene	13.226	91	2848	104.04 ug/L	95
20] o-Xylene	13.846	91	1450	50.02 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.944	83	647	46.53 ug/L	92
22] 1,3,5-Trimethylbenzene	15.408	105	1619	52.39 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	1710	56.17 ug/L	99
24] Naphthalene	17.932	128	2977	62.25 ug/L	84
25) 2-Fluorotoluene SCAN	11.032	109	62739	3759.57 ug/L	97
28) 1,1-Dichloroethane SCAN	5.085	63	788	144.77 ug/L #	49
29) cis-1,2-Dichloroethene...	6.113	61	120	22.29 ug/L #	1
30) Chloroform SCAN	6.699	83	1054	186.31 ug/L #	19
31) 1,1,1-Trichloroethane ...	6.955	97	412	76.76 ug/L #	29
32) Carbon tetrachloride SCAN	7.332	117	91	22.97 ug/L #	22
33) Benzene SCAN	7.563	78	2154	140.91 ug/L #	49
34) 1,2-Dichloroethane SCAN	7.599	62	307	53.08 ug/L #	42
36) Toluene-d8 SCAN	10.549	98	1075	81.46 ug/L #	34
37) Toluene SCAN	10.665	91	1790	98.85 ug/L #	24
38) 1,1,2-Trichloroethane ...	11.305	97	709	164.47 ug/L #	42
40) Chlorobenzene SCAN	12.836	112	264	22.45 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.653	131	94	23.81 ug/L #	6
42) Ethylbenzene SCAN	13.034	91	773	41.18 ug/L #	61
43) m&p-Xylene SCAN	13.217	91	1884	59.97 ug/L #	52
44) o-Xylene SCAN	13.844	91	1421	80.47 ug/L #	38
45) 1,1,2,2-Tetrachloroeth...	14.942	83	462	39120.22 ug/L #	29
46) 1,3,5-Trimethylbenzene...	15.407	105	375	24.81 ug/L #	1
47) 1,2,4-Trimethylbenzene...	15.953	105	1651	107.30 ug/L	75
48) Naphthalene SCAN	17.935	128	2314	108.26 ug/L	82

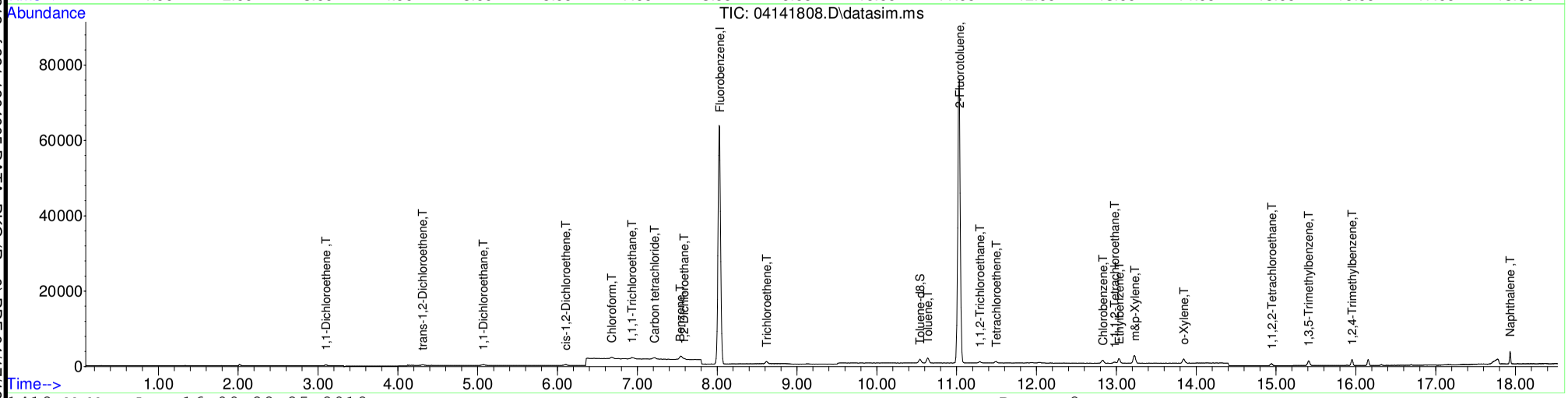
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141808.D
Acq On : 14 Apr 2018 13:38
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL6
Misc : 1745078 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 16 09:28:24 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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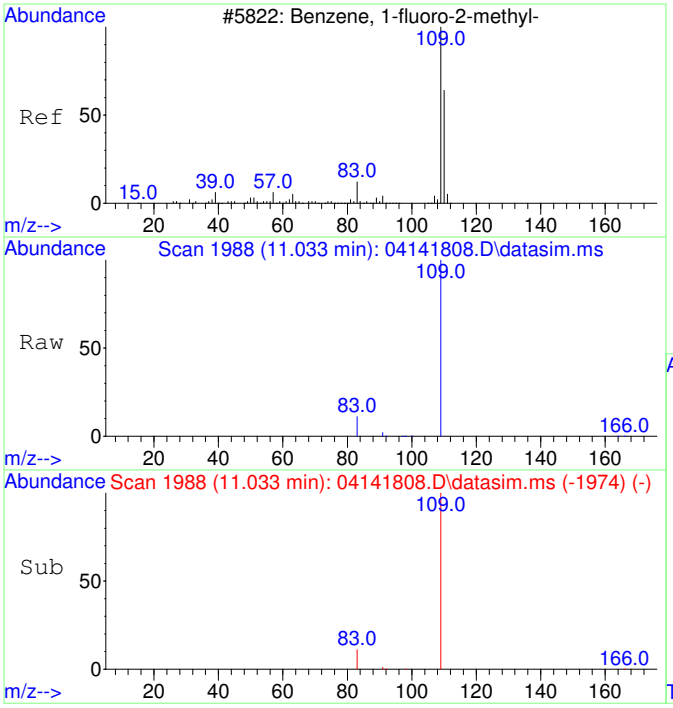
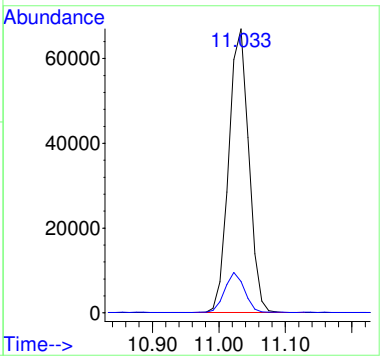
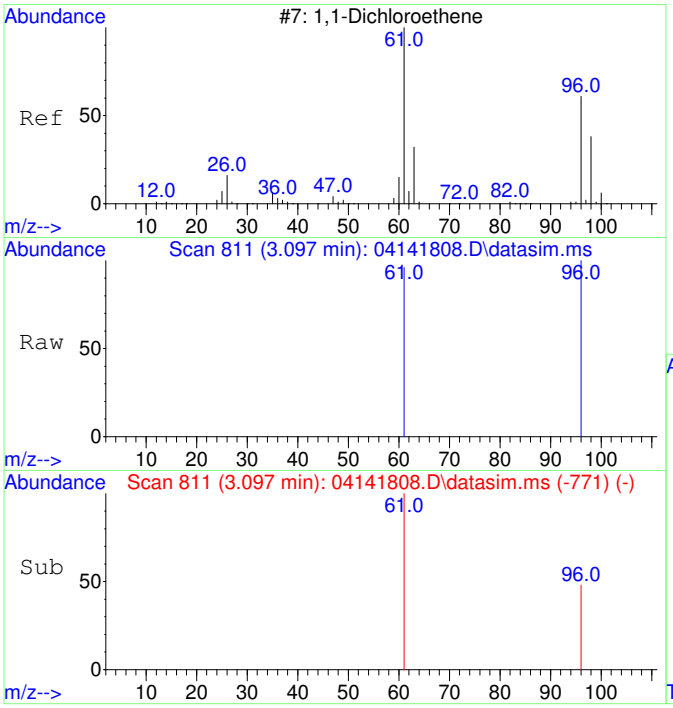


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:109 Resp: 139779

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	44.4

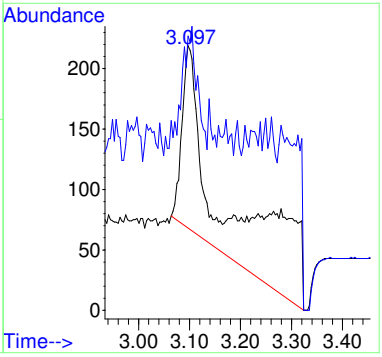




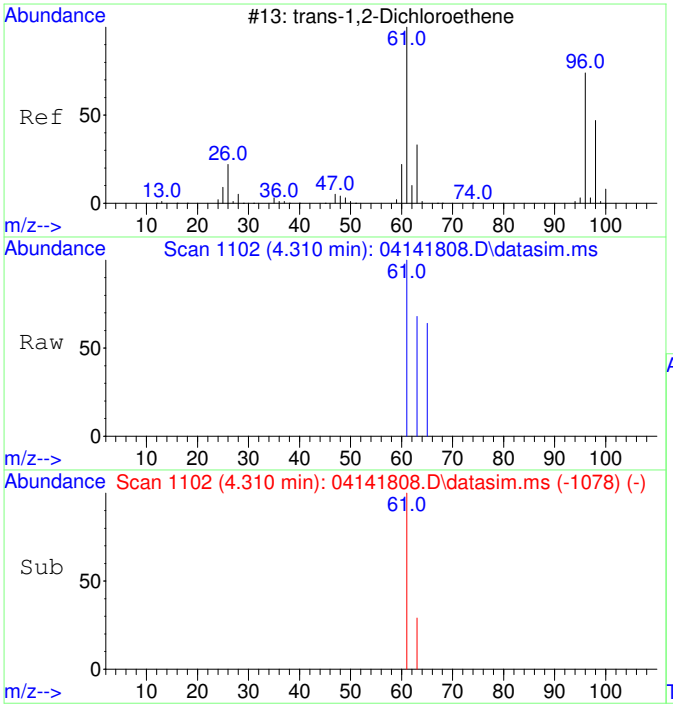
#2
1,1-Dichloroethene
Concen: 126.77 ug/L
RT: 3.097 min Scan# 811
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 61 Resp: 848

Ion	Ratio	Lower	Upper
61	100		
96	55.4	26.1	86.1



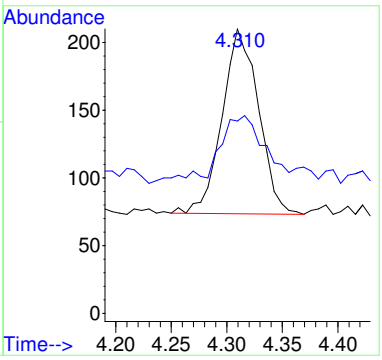
Before MI:
IMPROPER
BASELINE

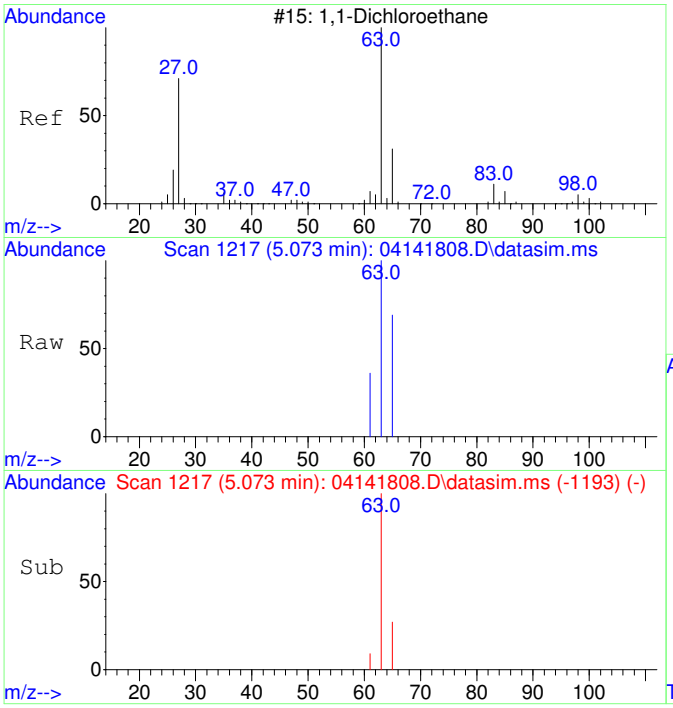


#3
trans-1,2-Dichloroethene
Concen: 45.63 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 61 Resp: 312

Ion	Ratio	Lower	Upper
61	100		
63	47.1	2.0	62.0

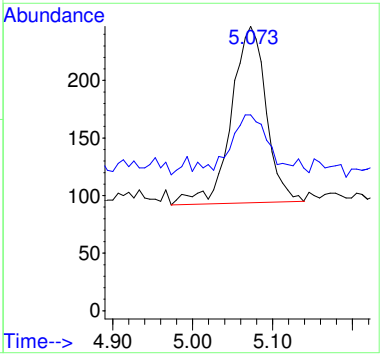


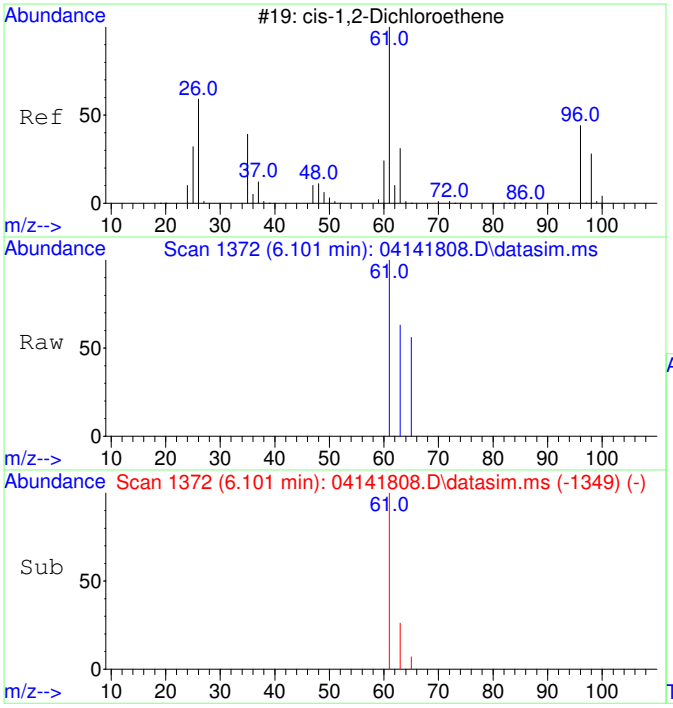


#4
1,1-Dichloroethane
Concen: 54.56 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 63 Resp: 464

Ion	Ratio	Lower	Upper
63	100		
65	37.5	1.8	61.8

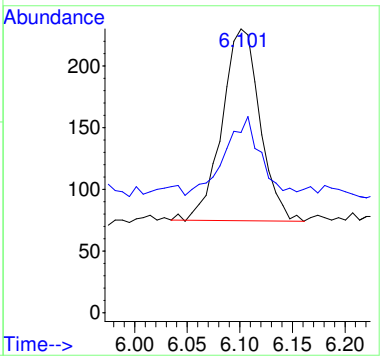


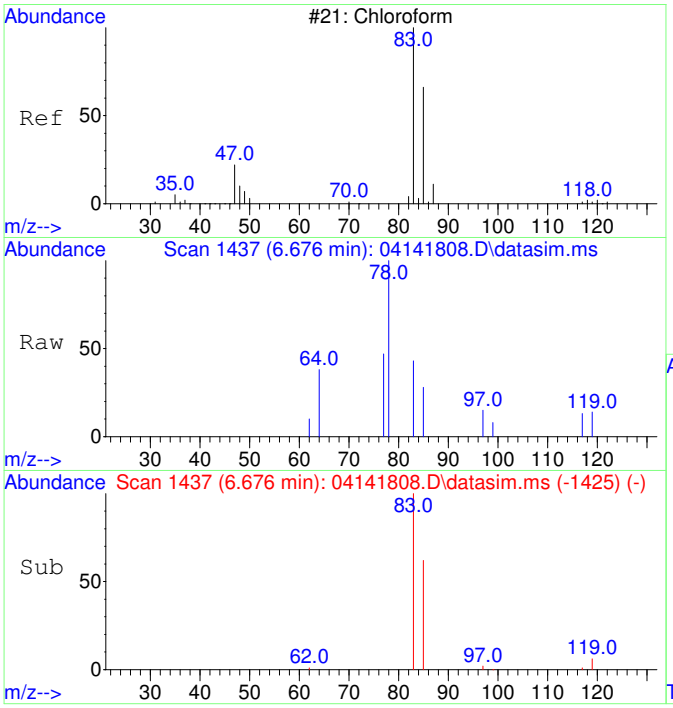


#5
cis-1,2-Dichloroethene
Concen: 46.29 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 61 Resp: 390

Ion	Ratio	Lower	Upper
61	100		
63	41.0	2.0	62.0

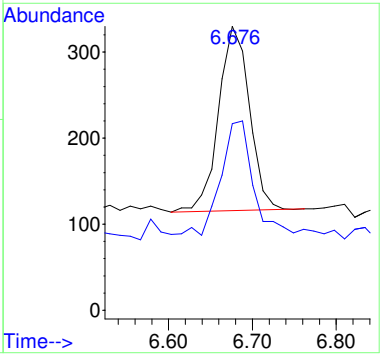


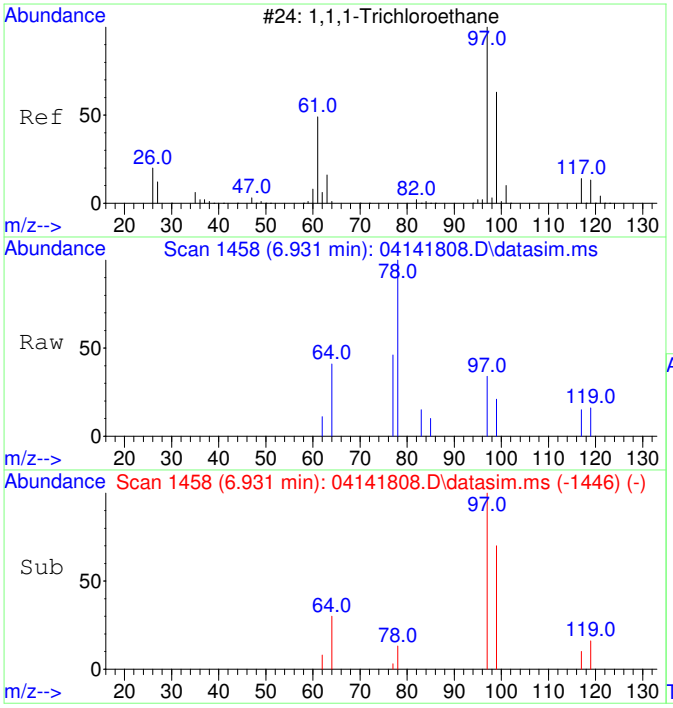


#6
Chloroform
Concen: 58.06 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 83 Resp: 547

Ion	Ratio	Lower	Upper
83	100		
85	67.6	34.2	94.2

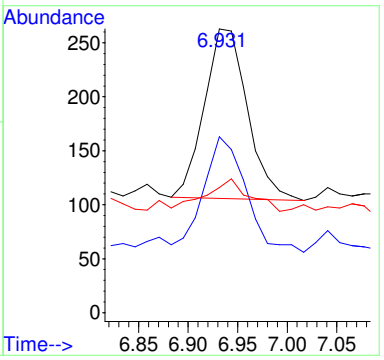


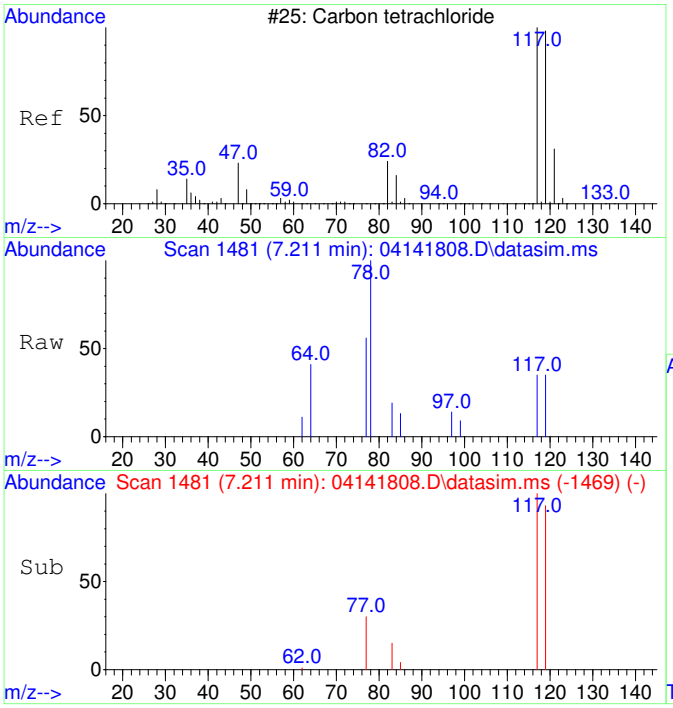


#7
1,1,1-Trichloroethane
Concen: 53.15 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 97 Resp: 475

Ion	Ratio	Lower	Upper
97	100		
99	74.7	34.5	94.5
117	21.5	0.0	42.6

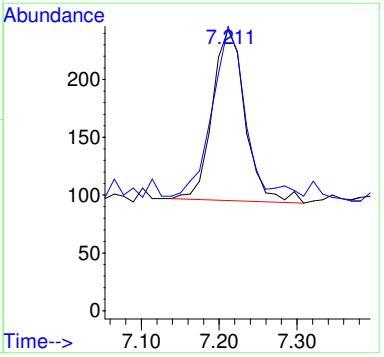


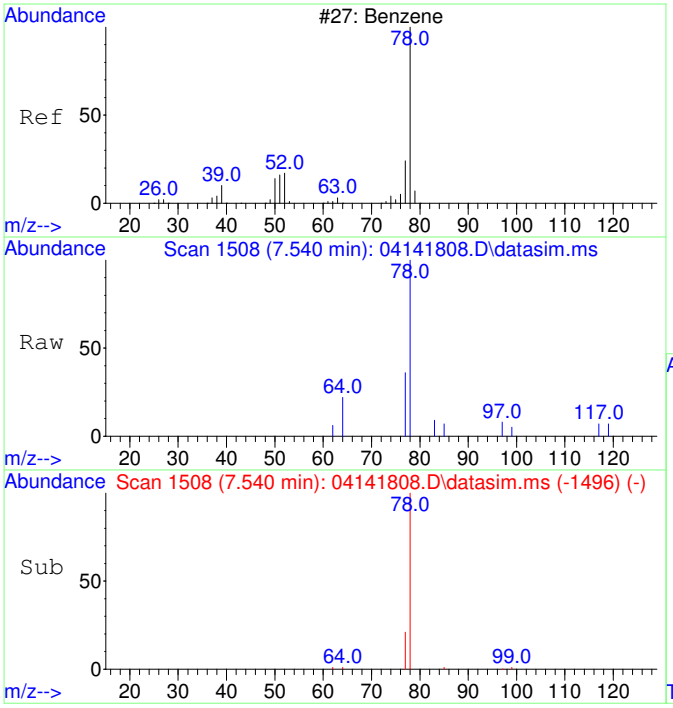


#8
Carbon tetrachloride
Concen: 52.71 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:117 Resp: 433

Ion	Ratio	Lower	Upper
117	100		
119	98.6	64.5	124.5

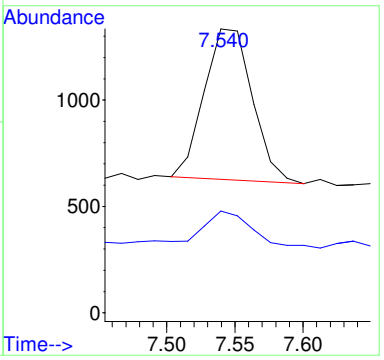


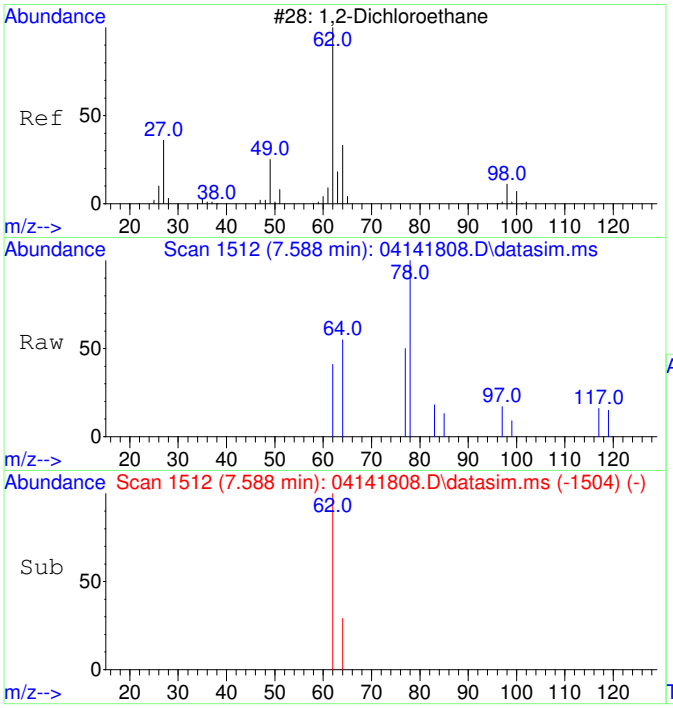


#9
Benzene
Concen: 75.54 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 78 Resp: 1734

Ion	Ratio	Lower	Upper
78	100		
77	33.2	0.0	53.6

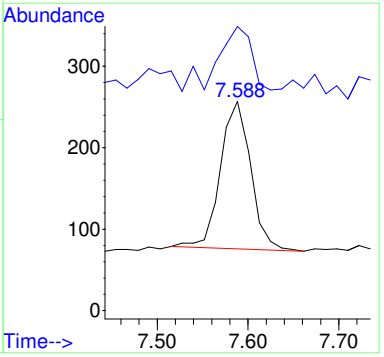


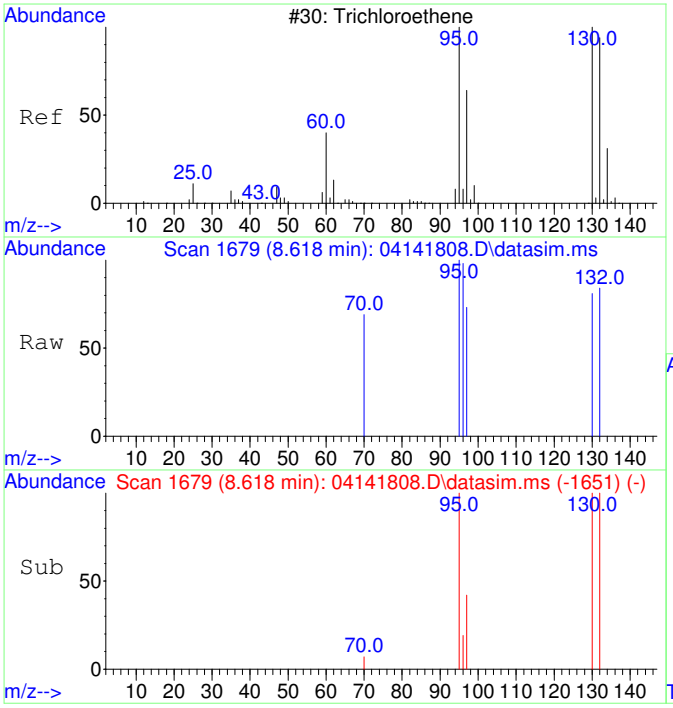


#10
1,2-Dichloroethane
Concen: 49.24 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 62 Resp: 415

Ion	Ratio	Lower	Upper
62	100		
64	51.6	1.8	61.8

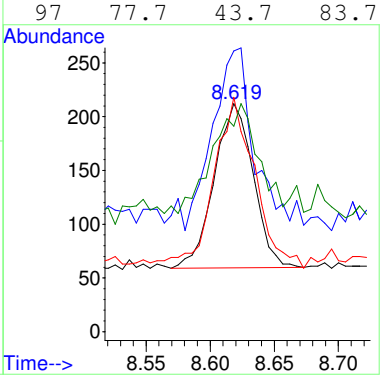


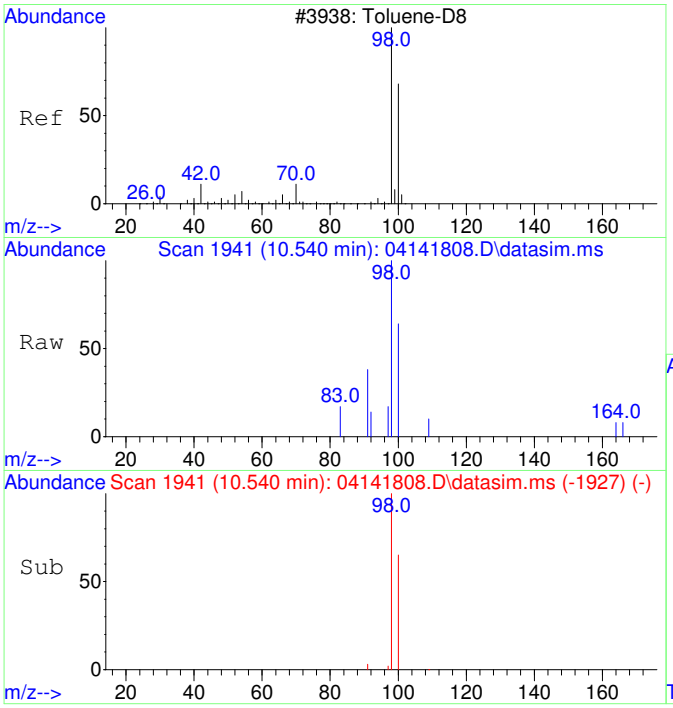


#11
Trichloroethene
Concen: 53.55 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:130 Resp: 323

Ion	Ratio	Lower	Upper
130	100		
95	122.9	68.8	128.8
132	110.8	78.6	118.6
97	77.7	43.7	83.7

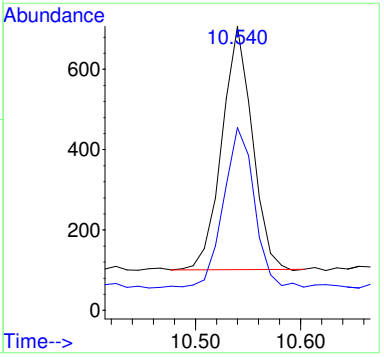


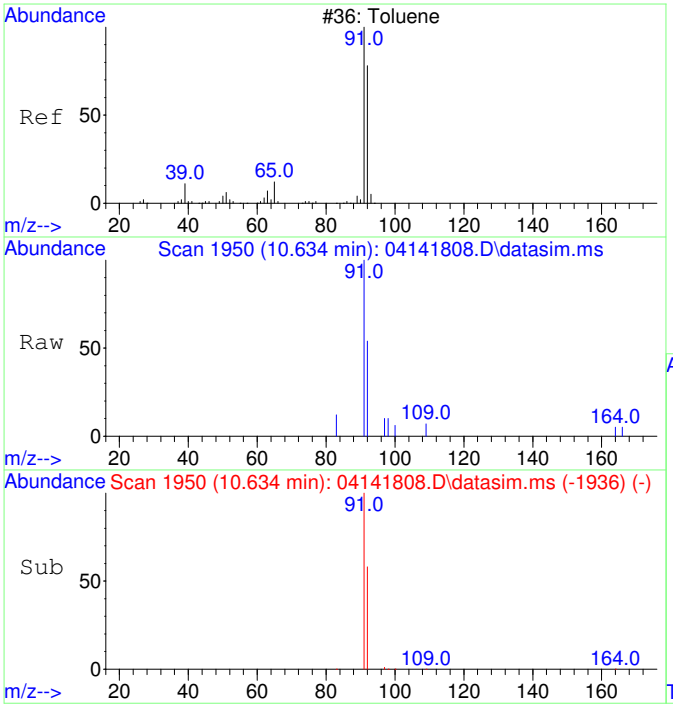


#12
Toluene-d8
Concen: 53.38 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 98 Resp: 1209

Ion	Ratio	Lower	Upper
98	100		
100	67.0	36.9	96.9

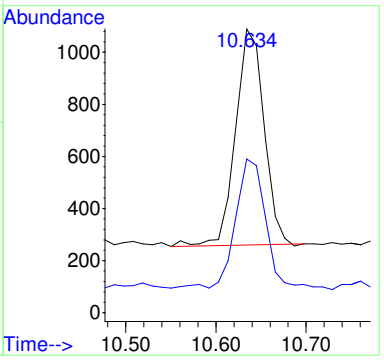


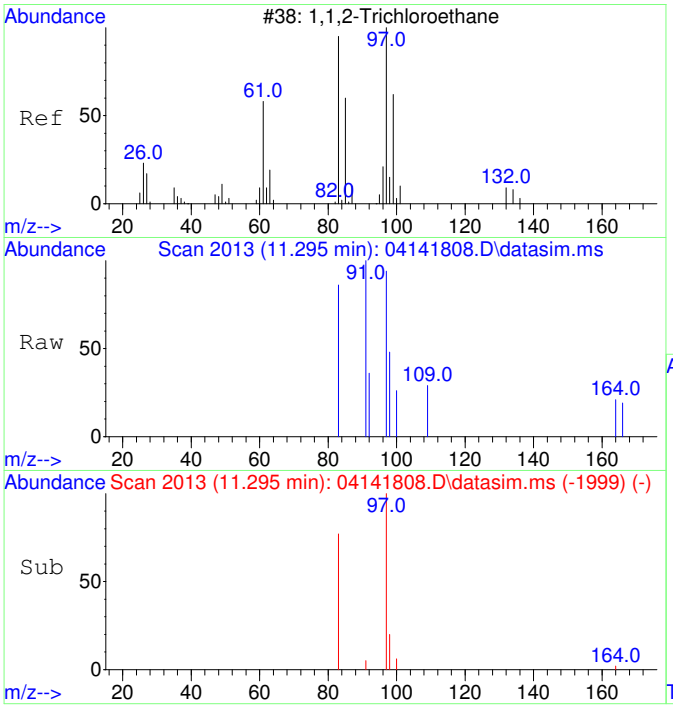


#13
Toluene
Concen: 61.03 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1825

Ion	Ratio	Lower	Upper
91	100		
92	65.8	28.8	88.8

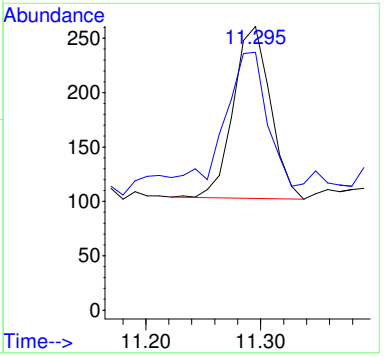


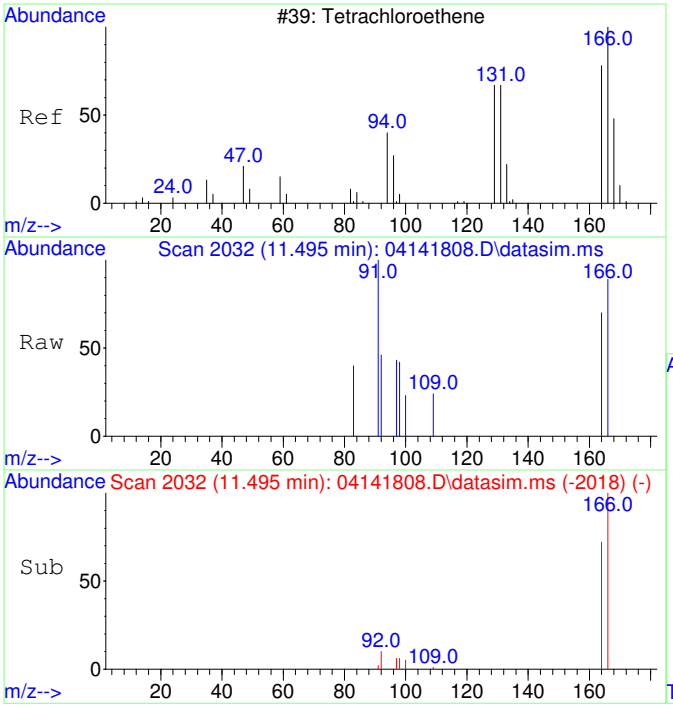


#14
1,1,2-Trichloroethane
Concen: 52.69 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 97 Resp: 354

Ion	Ratio	Lower	Upper
97	100		
83	114.1	54.3	114.3

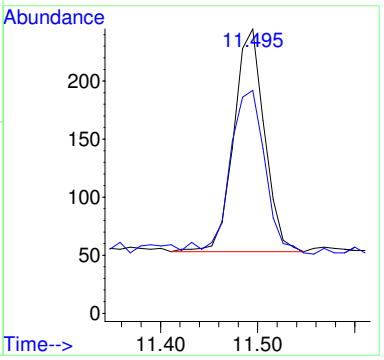


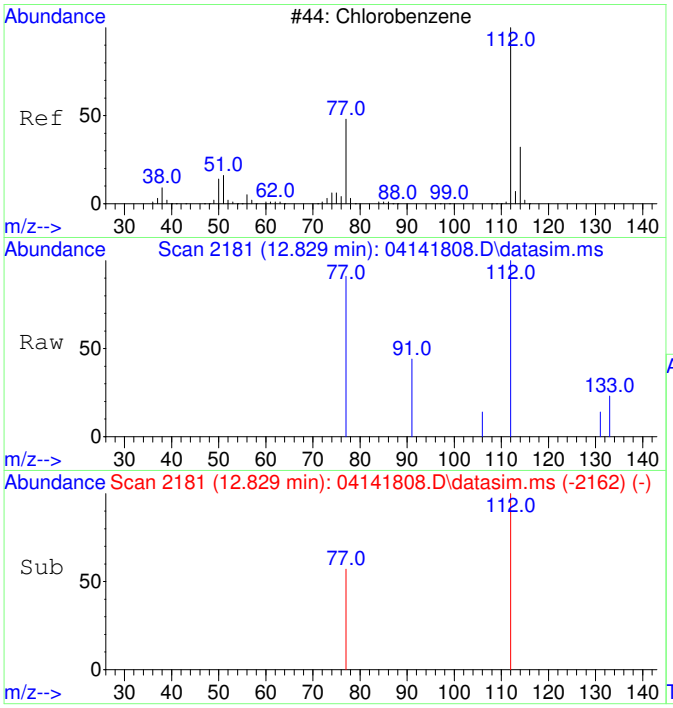


#15
Tetrachloroethene
Concen: 48.66 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:166 Resp: 419

Ion	Ratio	Lower	Upper
166	100		
164	84.7	48.0	108.0

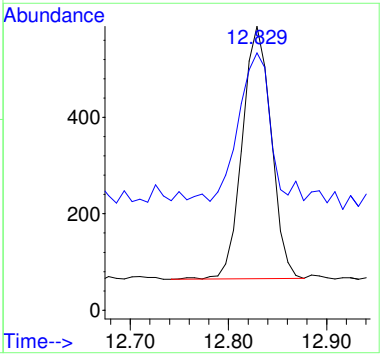


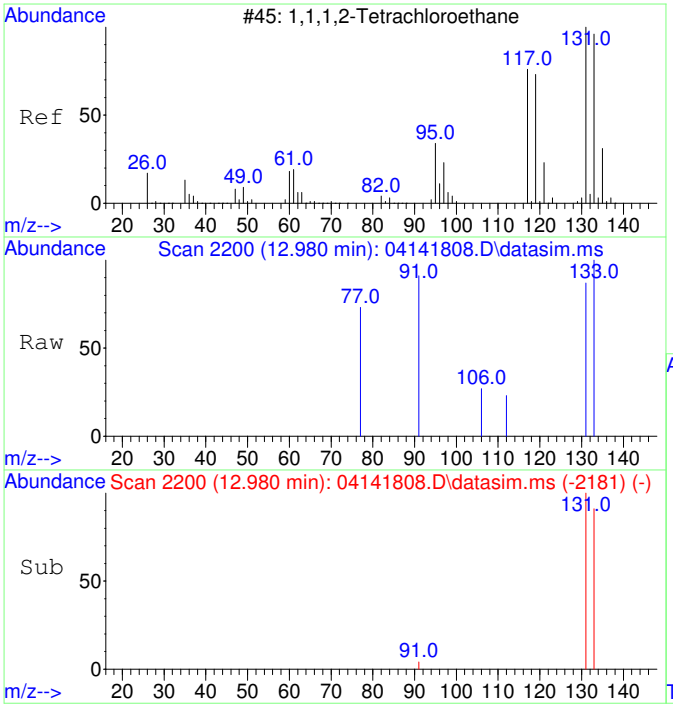


#16
Chlorobenzene
Concen: 51.69 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:112 Resp: 1069

Ion	Ratio	Lower	Upper
112	100		
77	67.6	29.4	89.4

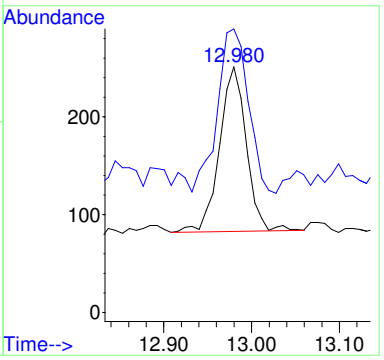


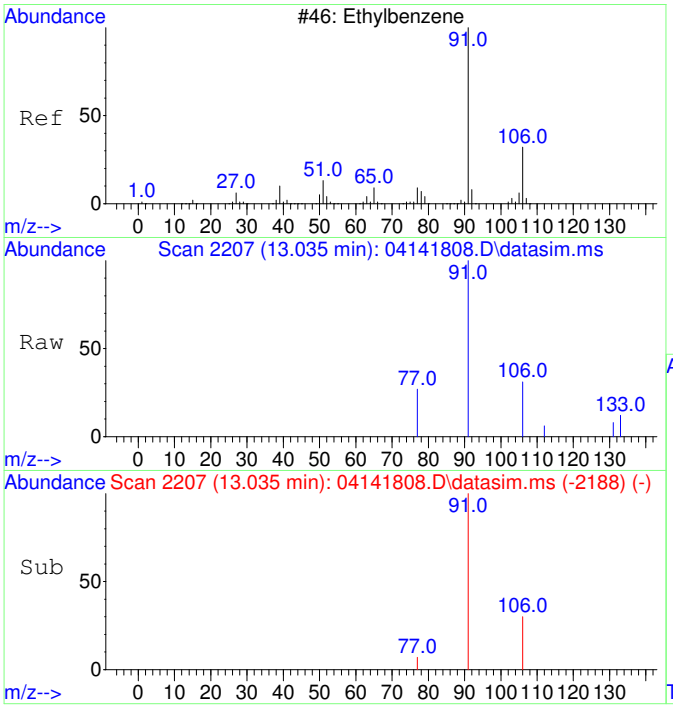


#17
1,1,1,2-Tetrachloroethane
Concen: 54.96 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:131 Resp: 355

Ion	Ratio	Lower	Upper
131	100		
133	114.4	65.1	125.1

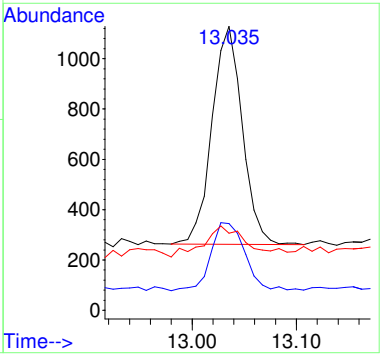


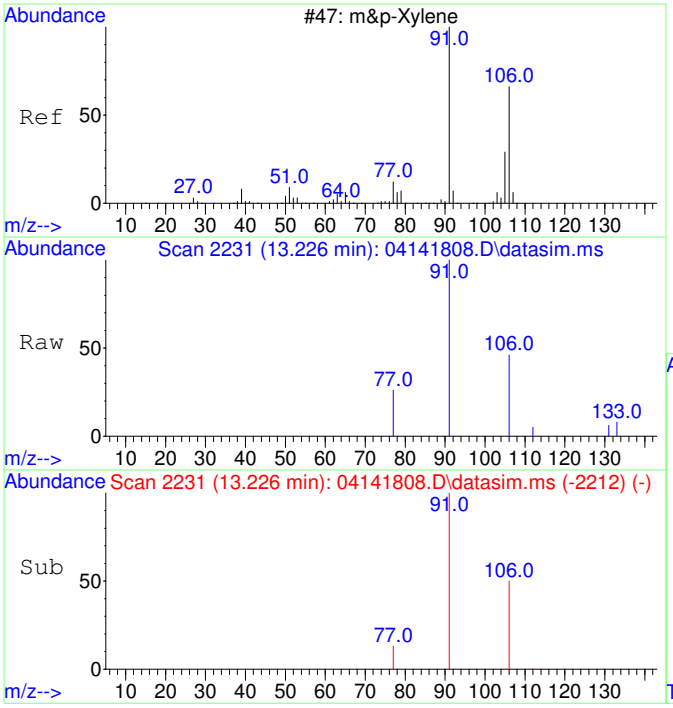


#18
Ethylbenzene
Concen: 49.70 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1749

Ion	Ratio	Lower	Upper
91	100		
106	34.7	1.8	61.8
77	20.4	0.0	38.7

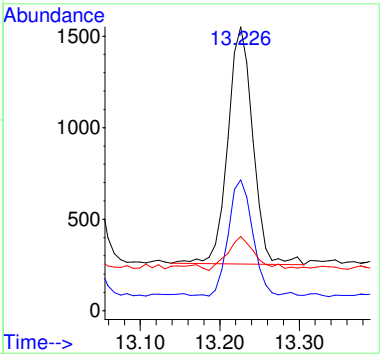


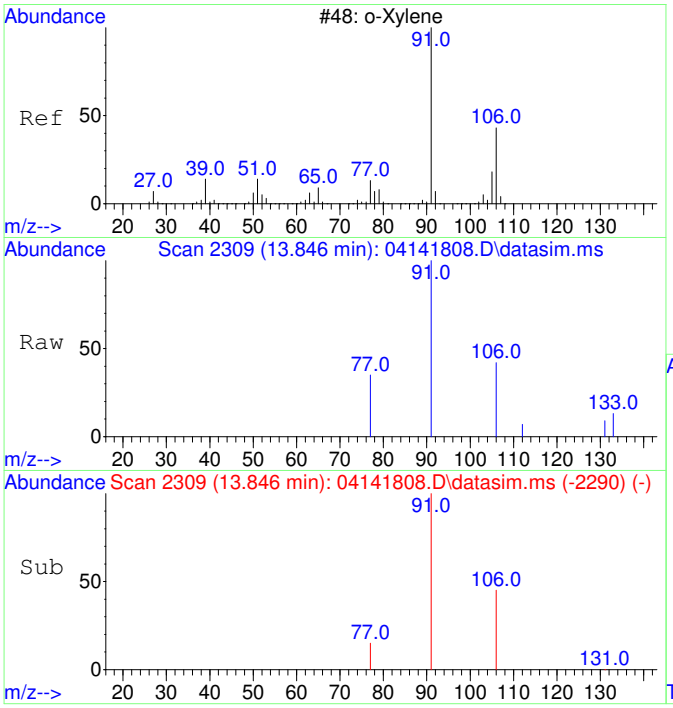


#19
m&p-Xylene
Concen: 104.04 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 2848

Ion	Ratio	Lower	Upper
91	100		
106	46.9	20.0	80.0
77	16.2	0.0	43.4

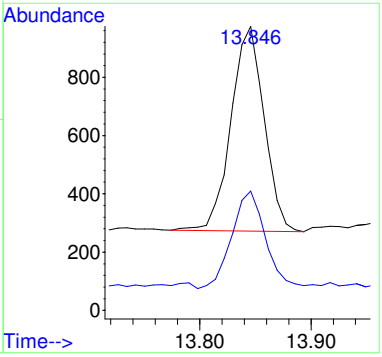


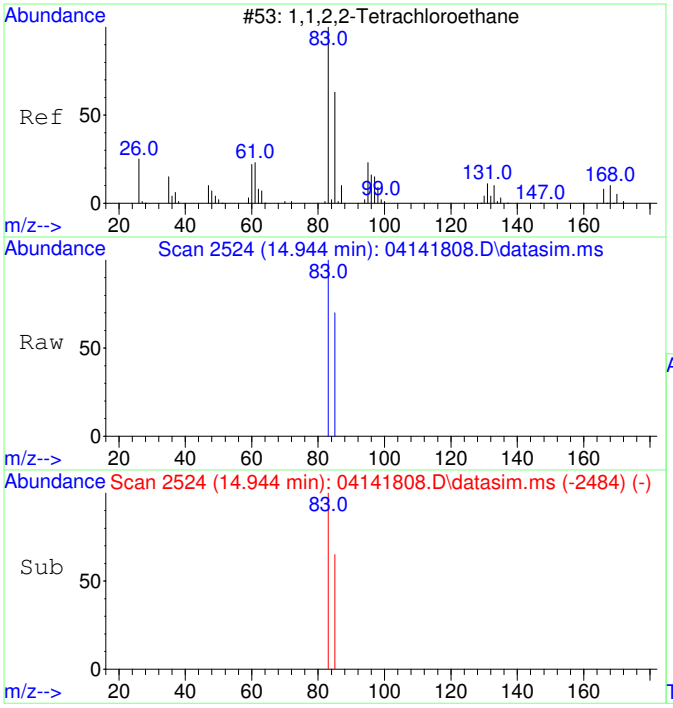


#20
o-Xylene
Concen: 50.02 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1450

Ion	Ratio	Lower	Upper
91	100		
106	48.7	16.9	76.9

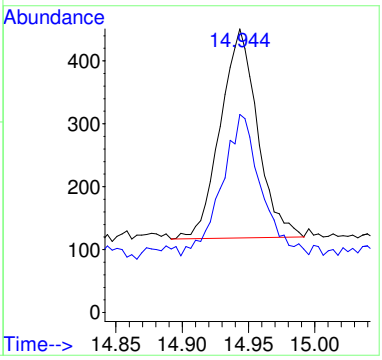


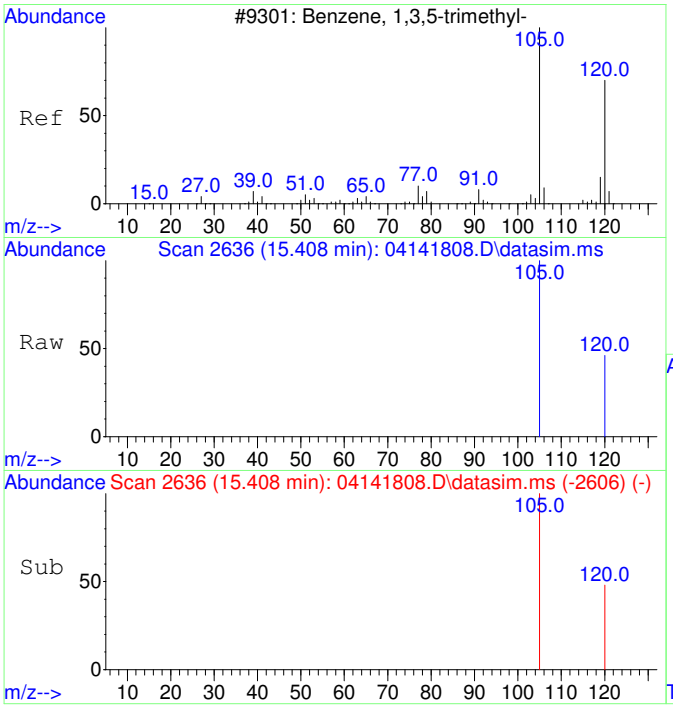


#21
1,1,2,2-Tetrachloroethane
Concen: 46.53 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 83 Resp: 647

Ion	Ratio	Lower	Upper
83	100		
85	70.9	34.3	94.3

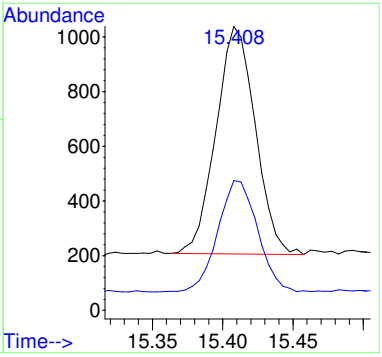


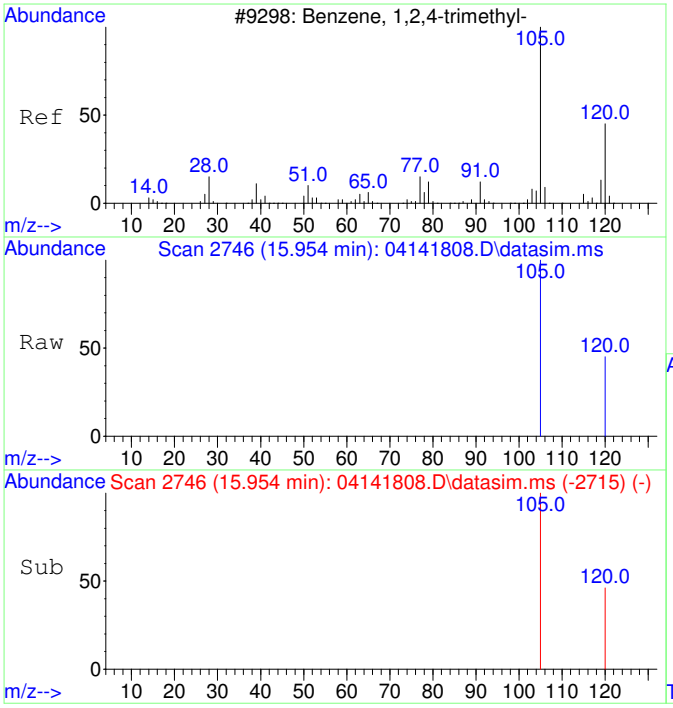


#22
1,3,5-Trimethylbenzene
Concen: 52.39 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:105 Resp: 1619

Ion	Ratio	Lower	Upper
105	100		
120	49.0	18.1	78.1

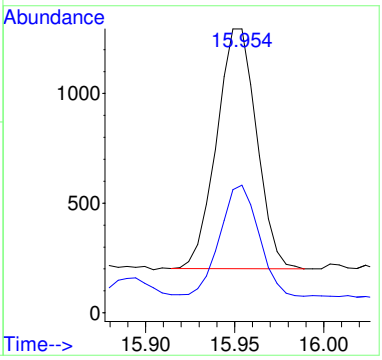


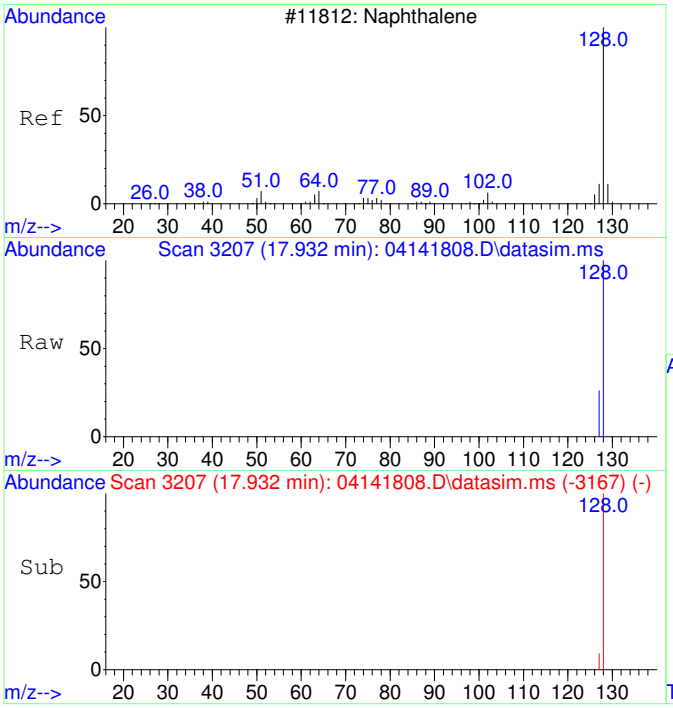


#23
1,2,4-Trimethylbenzene
Concen: 56.17 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. 0.005 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:105 Resp: 1710

Ion	Ratio	Lower	Upper
105	100		
120	44.0	14.5	74.5

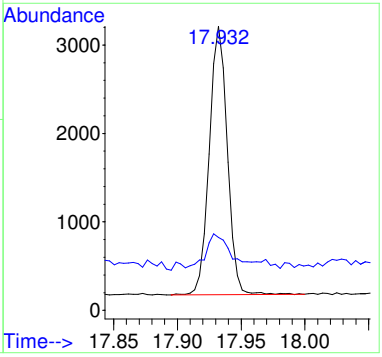


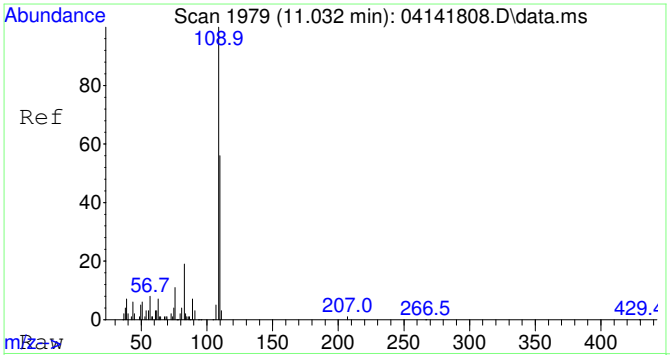


#24
Naphthalene
Concen: 62.25 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:128 Resp: 2977

Ion	Ratio	Lower	Upper
128	100		
127	19.1	0.0	42.7

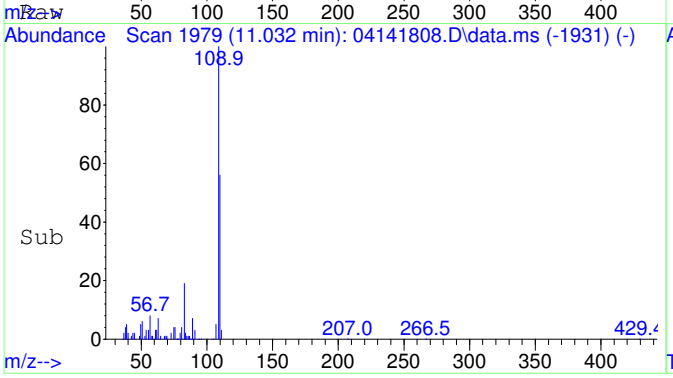


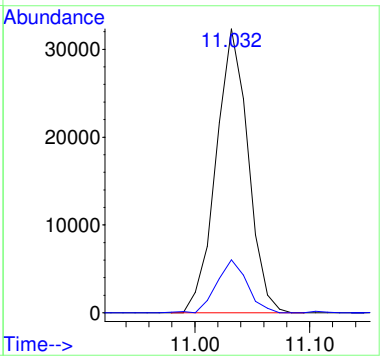


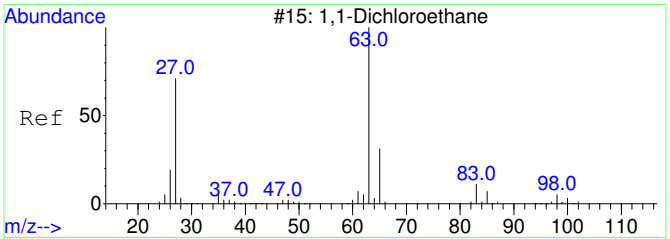
#25
2-Fluorotoluene SCAN
Concen: 3759.57 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:109 Resp: 62739

Ion	Ratio	Lower	Upper
109	100		
83	17.7	0.0	49.2



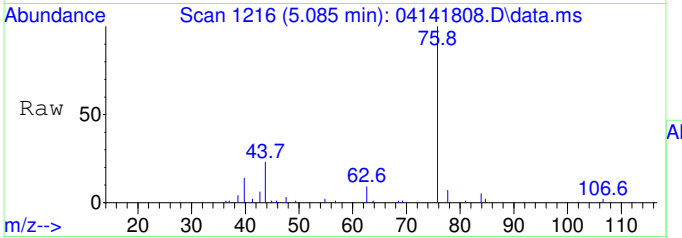


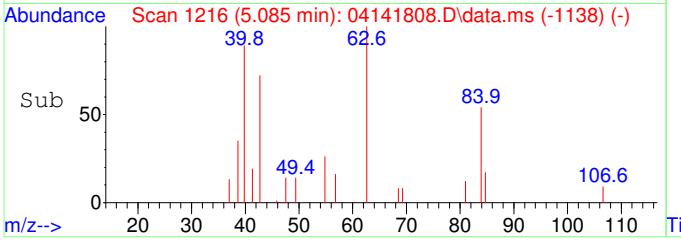


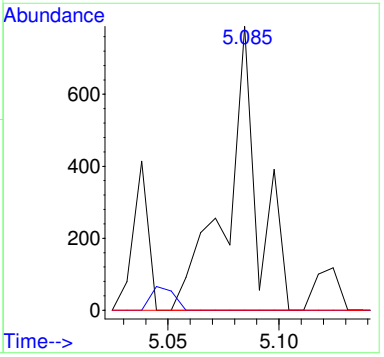
#28
1,1-Dichloroethane SCAN
Concen: 144.77 ug/L
RT: 5.085 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

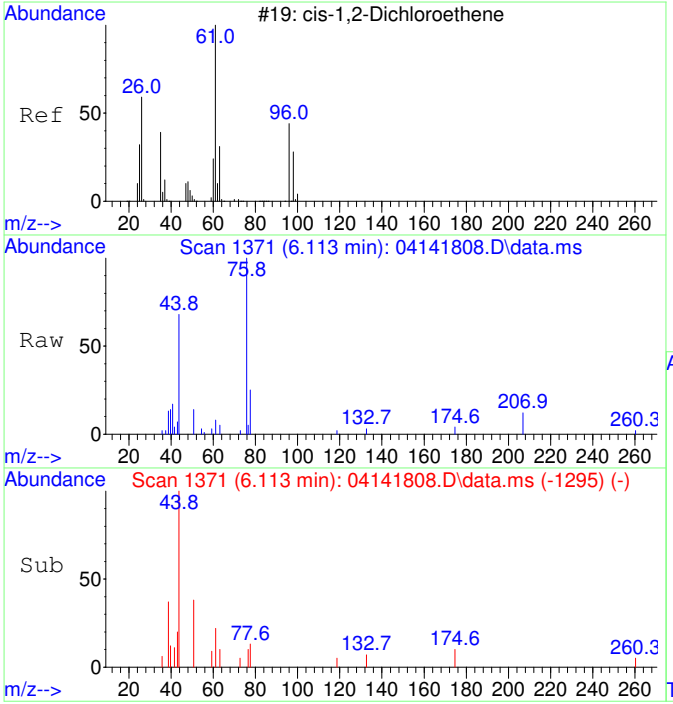
Tgt Ion: 63 Resp: 788

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	0.0	0.0	38.2





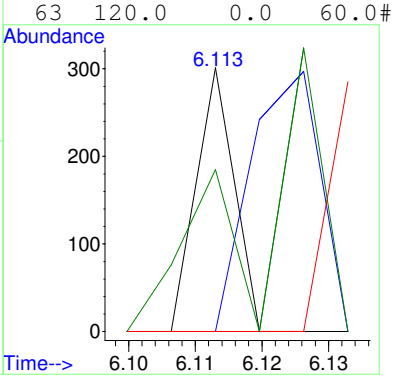


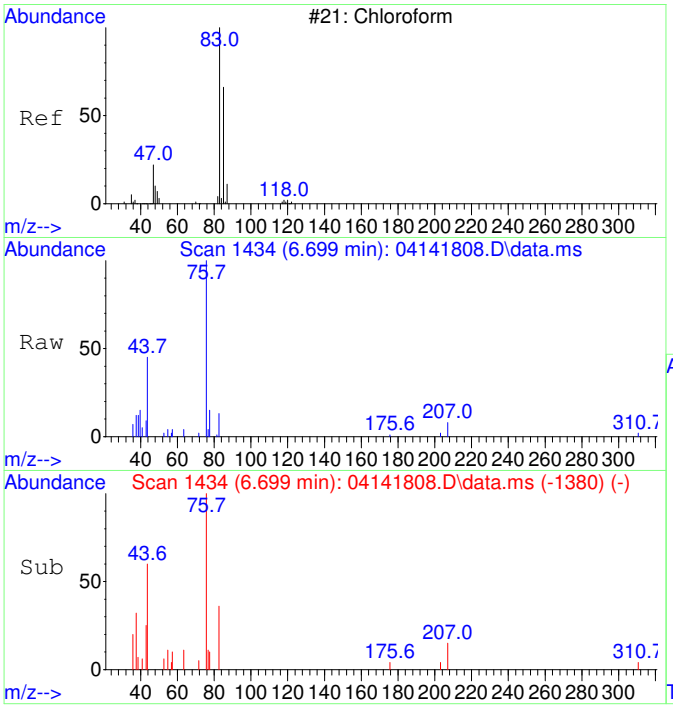


#29
cis-1,2-Dichloroethene SCAN
Concen: 22.29 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.007 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 61 Resp: 120

Ion	Ratio	Lower	Upper
61	100		
96	179.2	49.4	109.4#
98	128.3	9.5	69.5#
63	120.0	0.0	60.0#

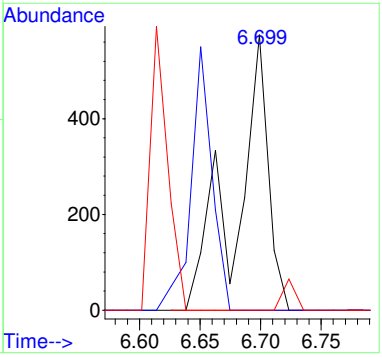


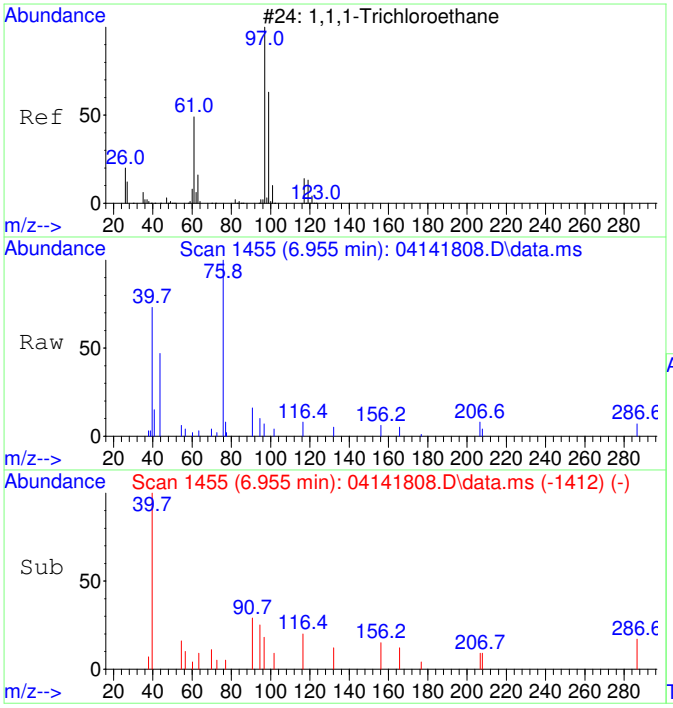


#30
Chloroform SCAN
Concen: 186.31 ug/L
RT: 6.699 min Scan# 1434
Delta R.T. 0.024 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 83 Resp: 1054

Ion	Ratio	Lower	Upper
83	100		
85	0.0	47.8	107.8#
47	0.0	8.2	68.2#

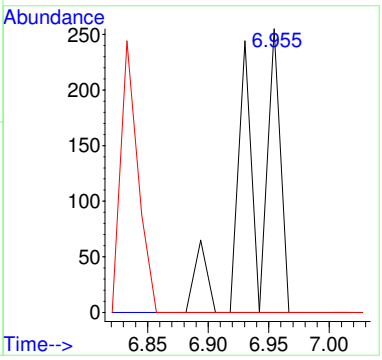


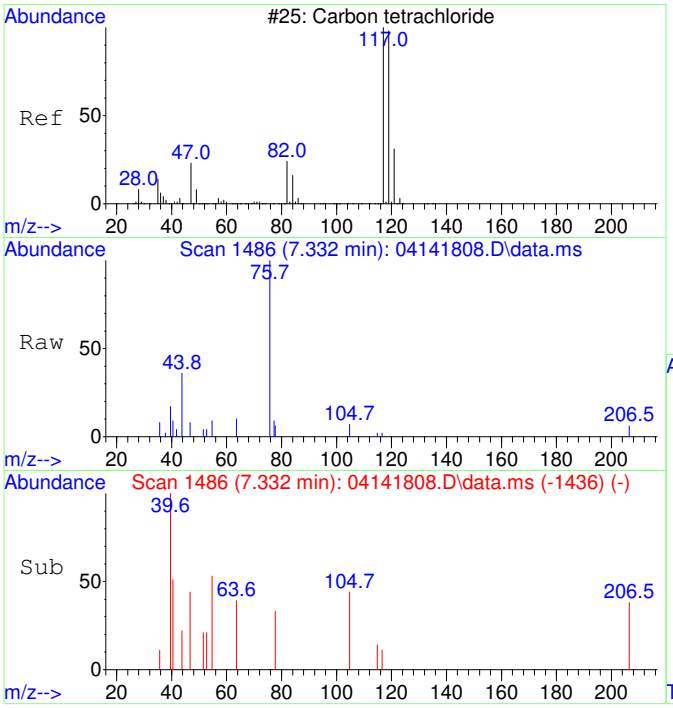


#31
1,1,1-Trichloroethane SCAN
Concen: 76.76 ug/L
RT: 6.955 min Scan# 1455
Delta R.T. 0.024 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 97 Resp: 412

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

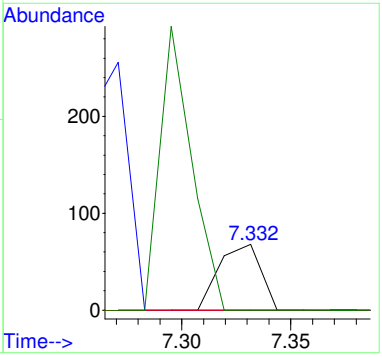


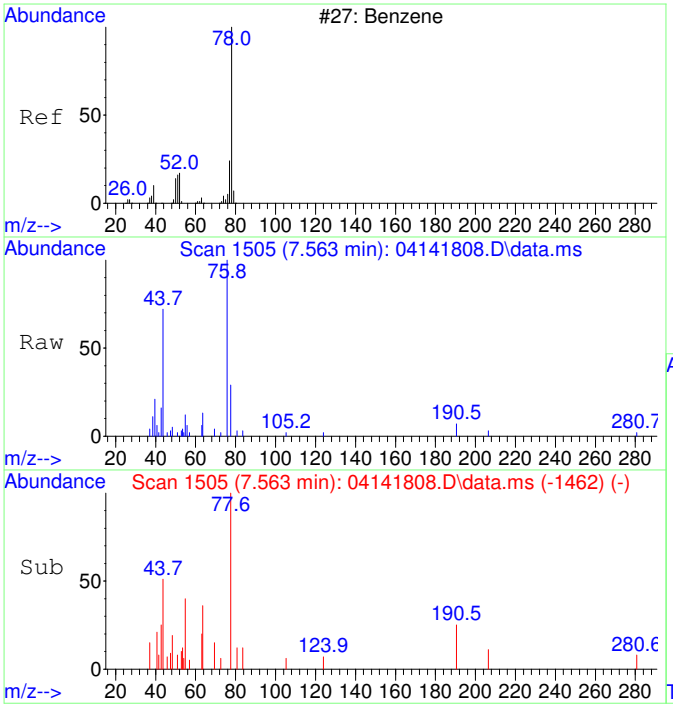


#32
Carbon tetrachloride SCAN
Concen: 22.97 ug/L
RT: 7.332 min Scan# 1486
Delta R.T. 0.109 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:117 Resp: 91

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

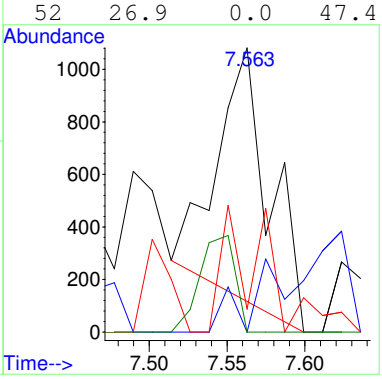


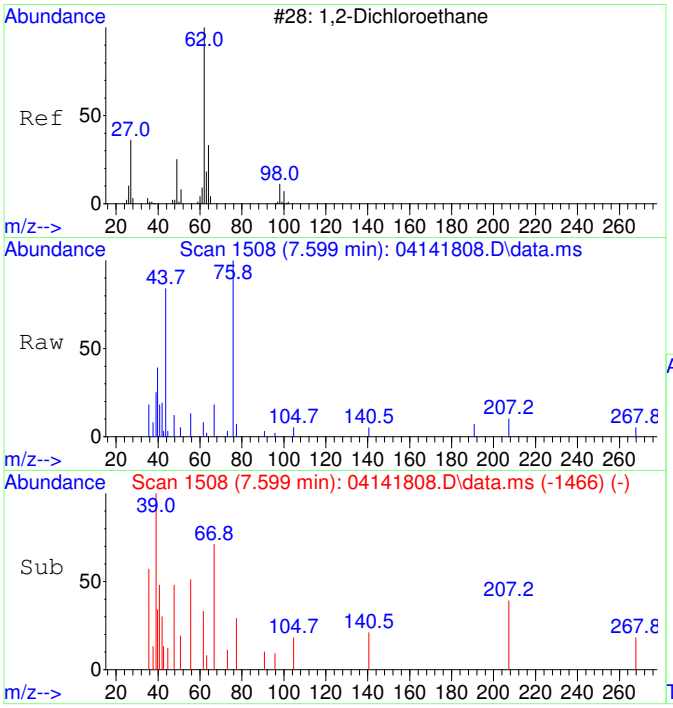


#33
Benzene SCAN
Concen: 140.91 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.024 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 78 Resp: 2154

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	44.3	0.0	47.2
52	26.9	0.0	47.4

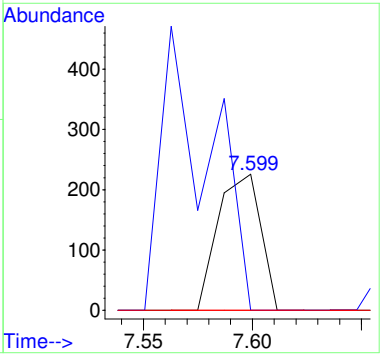


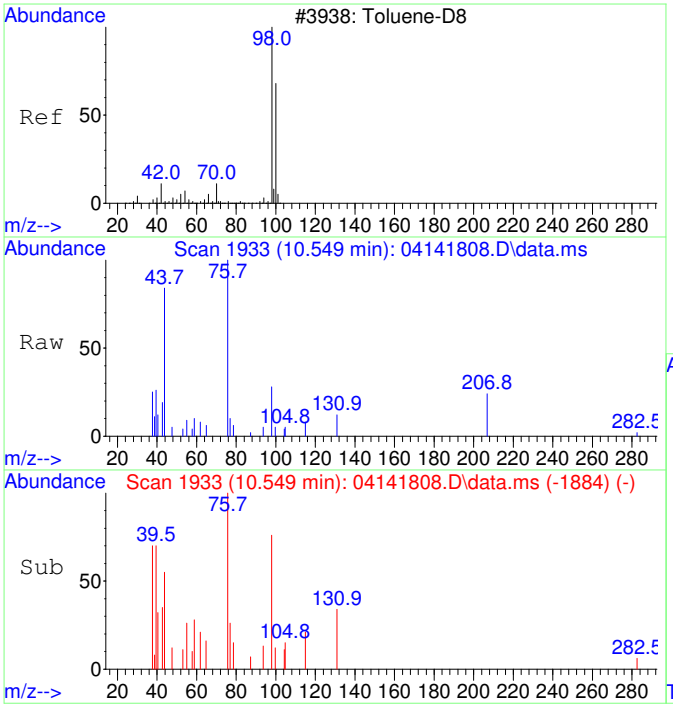


#34
1,2-Dichloroethane SCAN
Concen: 53.08 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 62 Resp: 307

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	0.0	1.2	61.2#

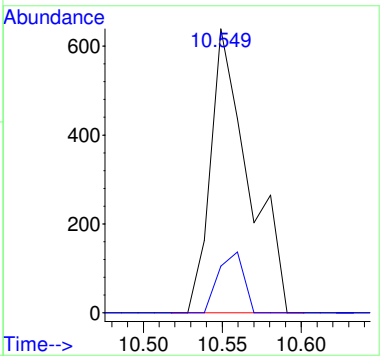


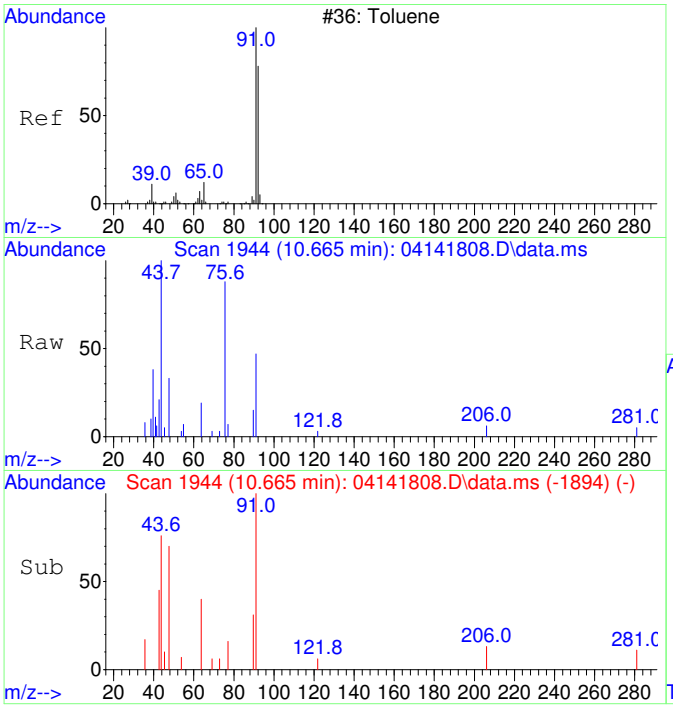


#36
Toluene-d8 SCAN
Concen: 81.46 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 98 Resp: 1075

Ion	Ratio	Lower	Upper
98	100		
100	14.1	37.3	97.3#

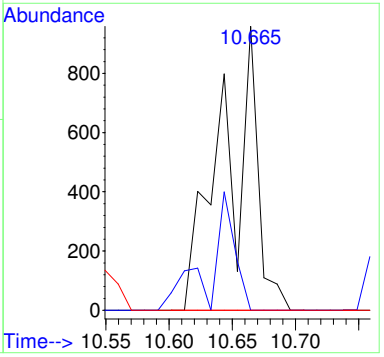


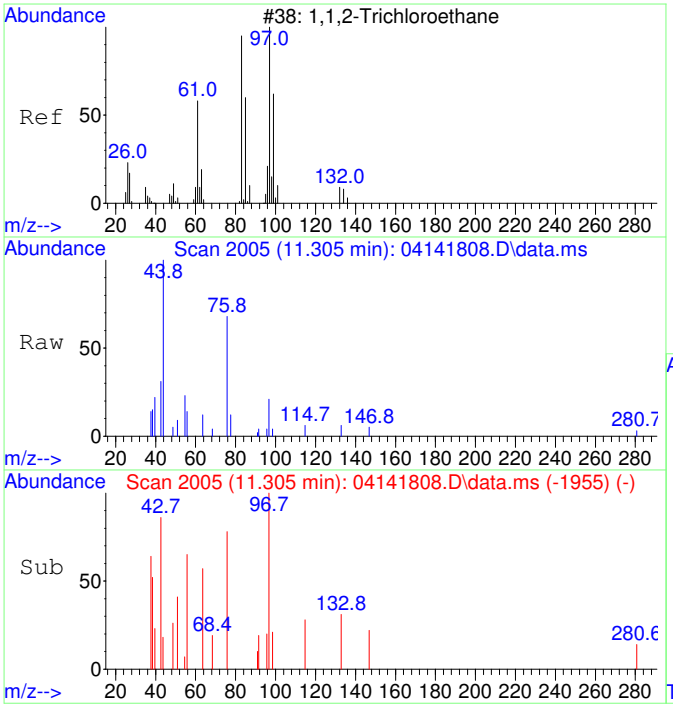


#37
Toluene SCAN
Concen: 98.85 ug/L
RT: 10.665 min Scan# 1944
Delta R.T. 0.021 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1790

Ion	Ratio	Lower	Upper
91	100		
92	0.0	39.1	99.1#
65	0.0	0.0	43.8

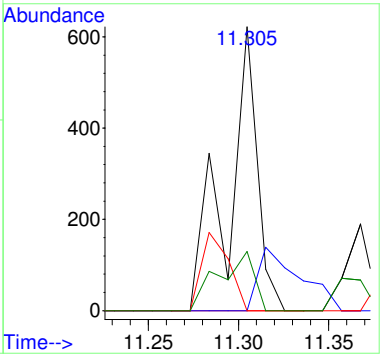


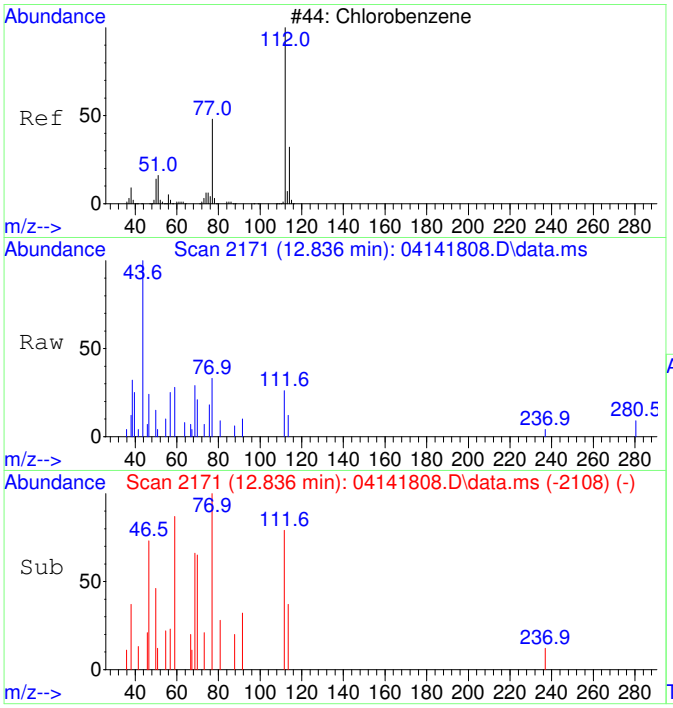


#38
1,1,2-Trichloroethane SCAN
Concen: 164.47 ug/L
RT: 11.305 min Scan# 2005
Delta R.T. 0.021 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 97 Resp: 709

Ion	Ratio	Lower	Upper
97	100		
83	31.6	47.4	107.4#
61	0.0	29.7	89.7#
99	25.2	26.5	86.5#

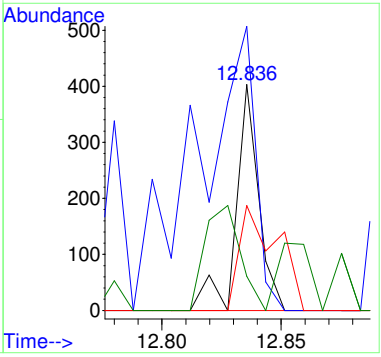


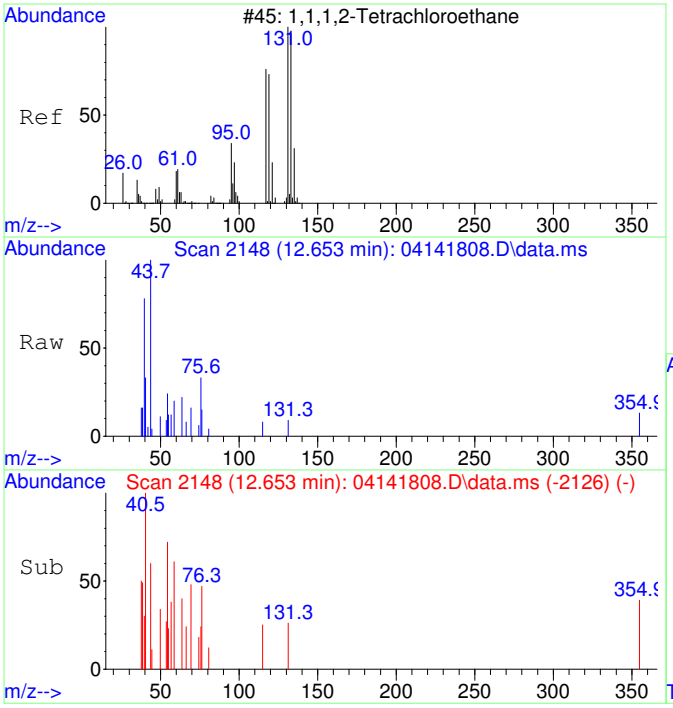


#40
Chlorobenzene SCAN
Concen: 22.45 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:112 Resp: 264

Ion	Ratio	Lower	Upper
112	100		
77	328.0	39.7	99.7#
114	78.0	1.2	61.2#
51	73.9	0.0	57.1#

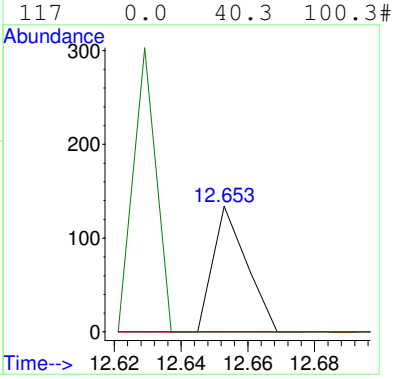


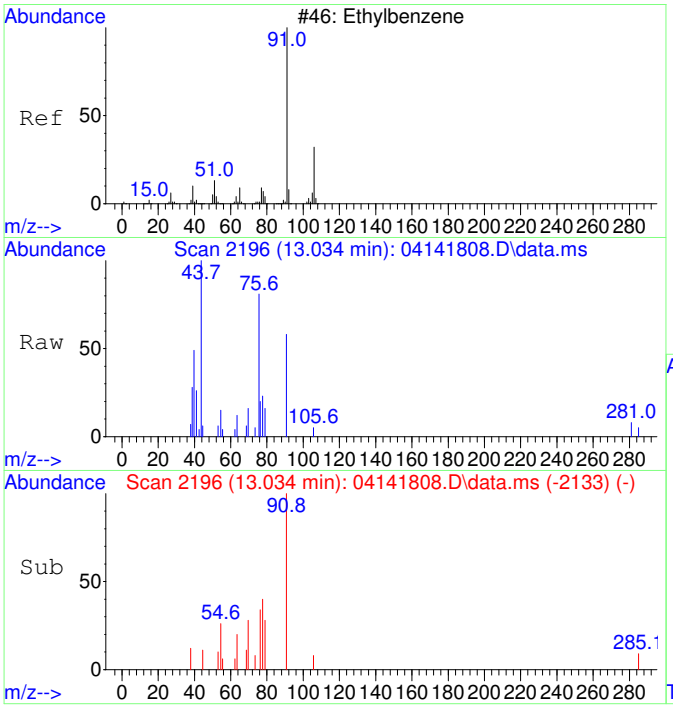


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 23.81 ug/L
RT: 12.653 min Scan# 2148
Delta R.T. -0.326 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:131 Resp: 94

Ion	Ratio	Lower	Upper
131	100		
133	0.0	78.7	138.7#
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

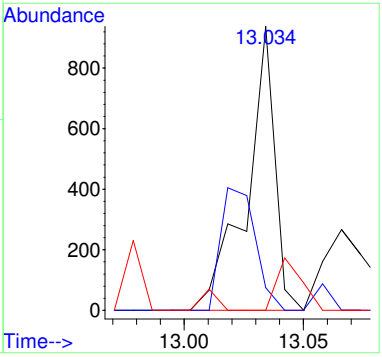


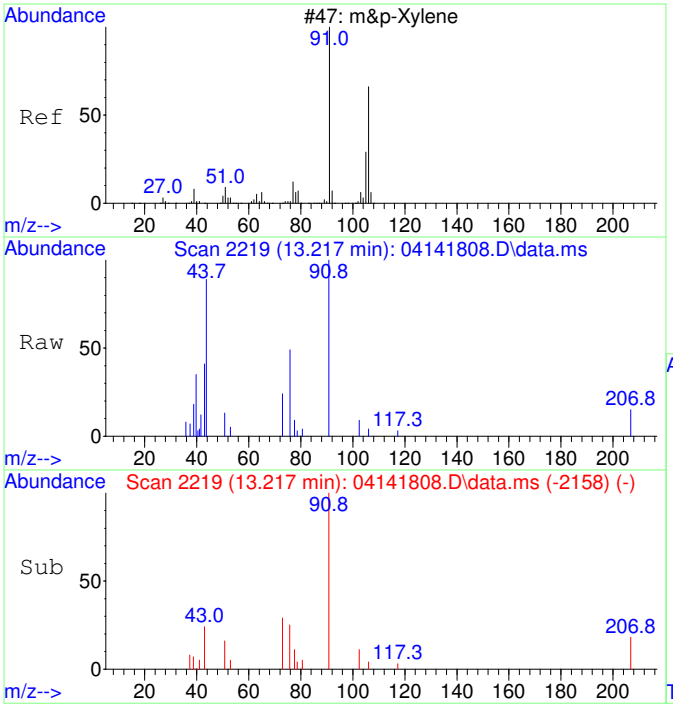


#42
Ethylbenzene SCAN
Concen: 41.18 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 773

Ion	Ratio	Lower	Upper
91	100		
106	0.0	1.8	61.8#
51	16.3	0.0	45.4

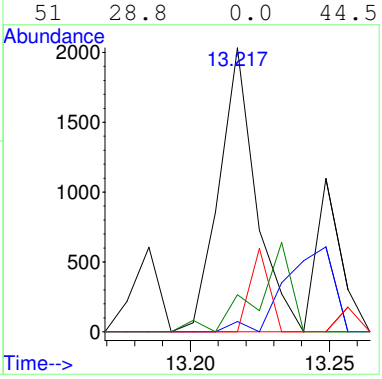


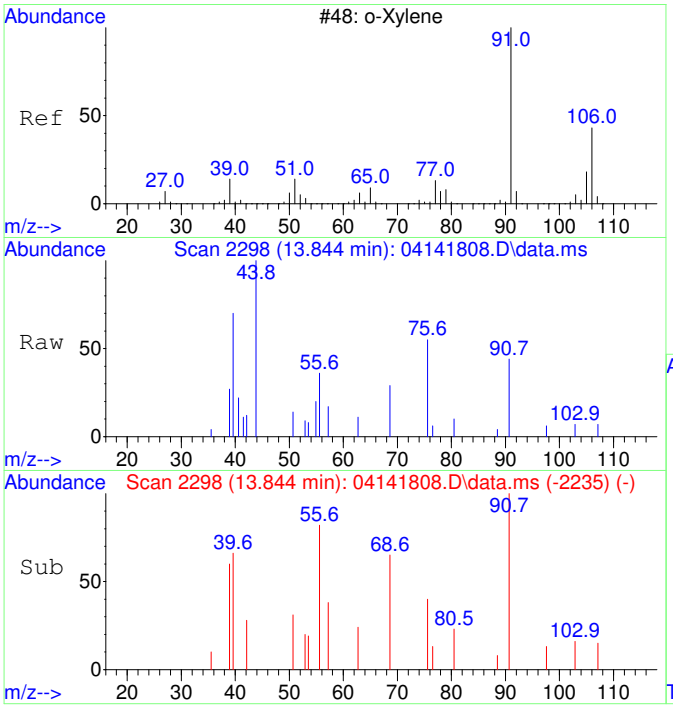


#43
m&p-Xylene SCAN
Concen: 59.97 ug/L
RT: 13.217 min Scan# 2219
Delta R.T. -0.016 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1884

Ion	Ratio	Lower	Upper
91	100		
106	0.0	14.6	74.6#
105	15.1	0.0	52.8
51	28.8	0.0	44.5

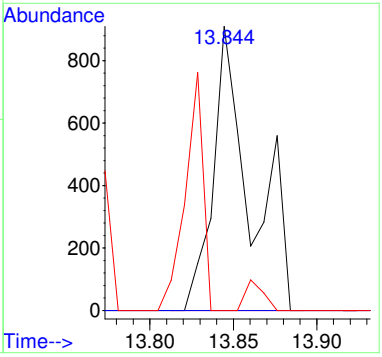


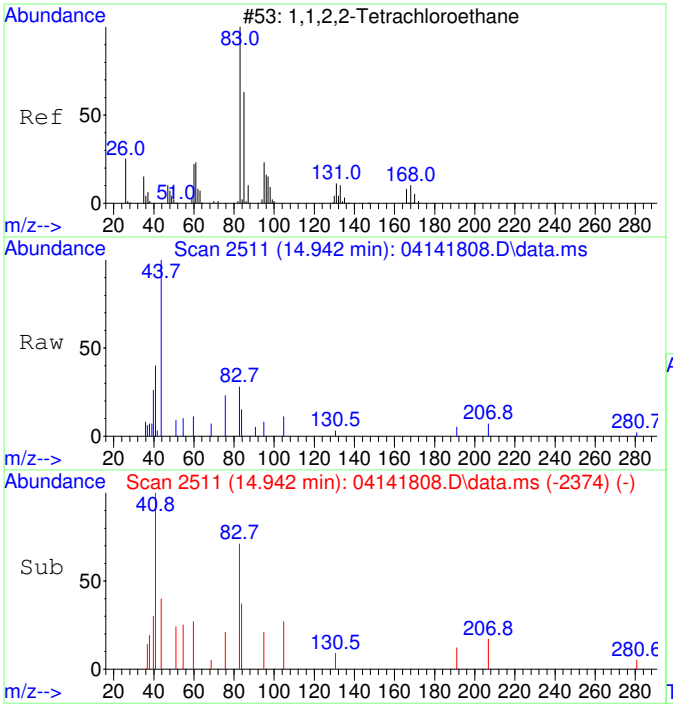


#44
o-Xylene SCAN
Concen: 80.47 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1421

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	5.1	0.0	54.9

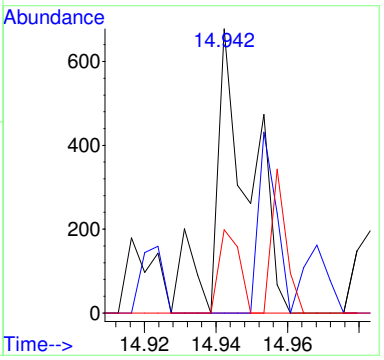


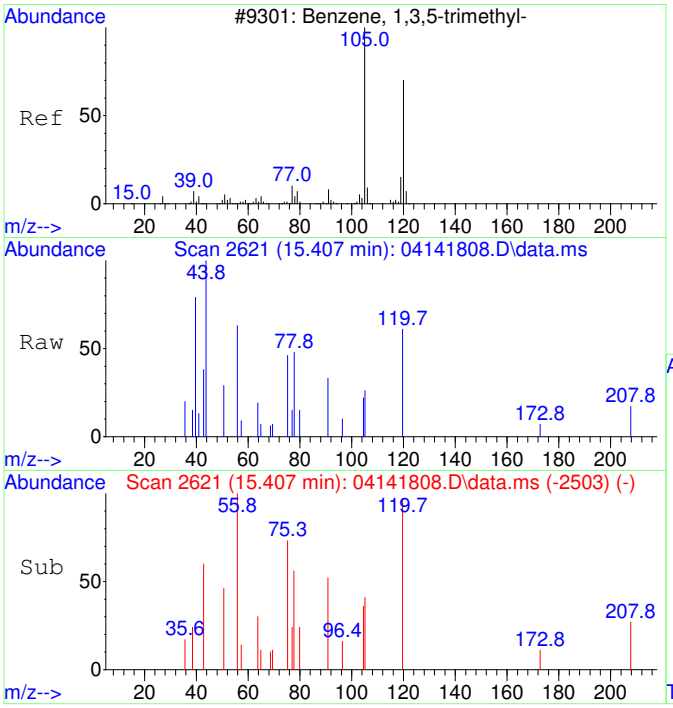


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 39120.22 ug/L
RT: 14.942 min Scan# 2511
Delta R.T. 0.007 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 83 Resp: 462

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.4	92.4#
95	17.1	0.0	41.2

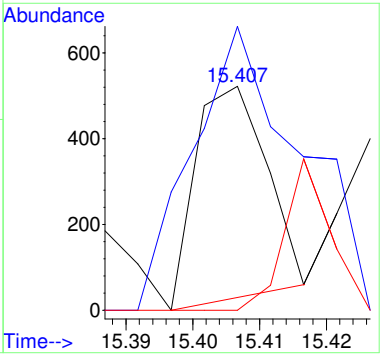


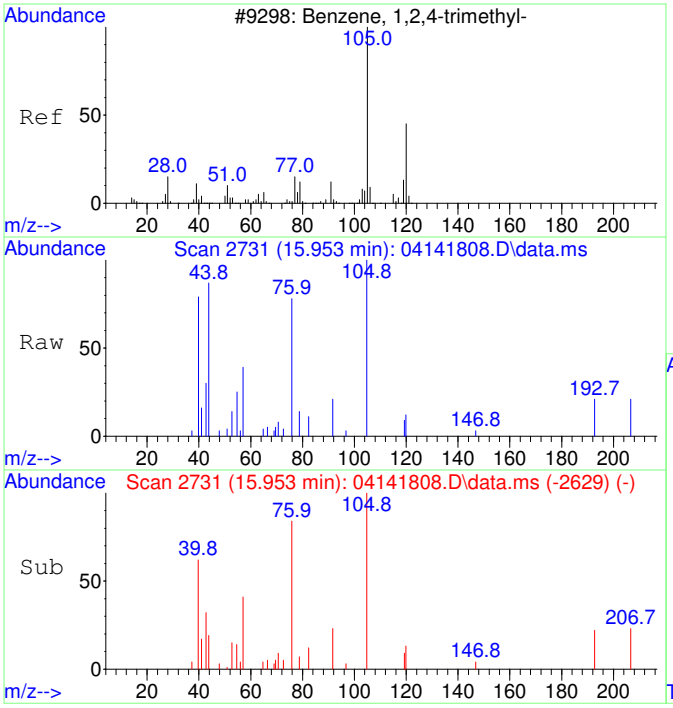


#46
1,3,5-Trimethylbenzene SCAN
Concen: 24.81 ug/L
RT: 15.407 min Scan# 2621
Delta R.T. -0.005 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:105 Resp: 375

Ion	Ratio	Lower	Upper
105	100		
120	198.7	16.1	76.1#
119	44.0	0.0	41.8#

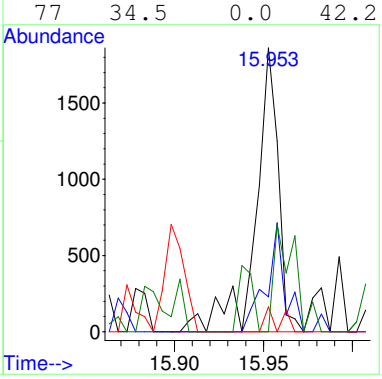


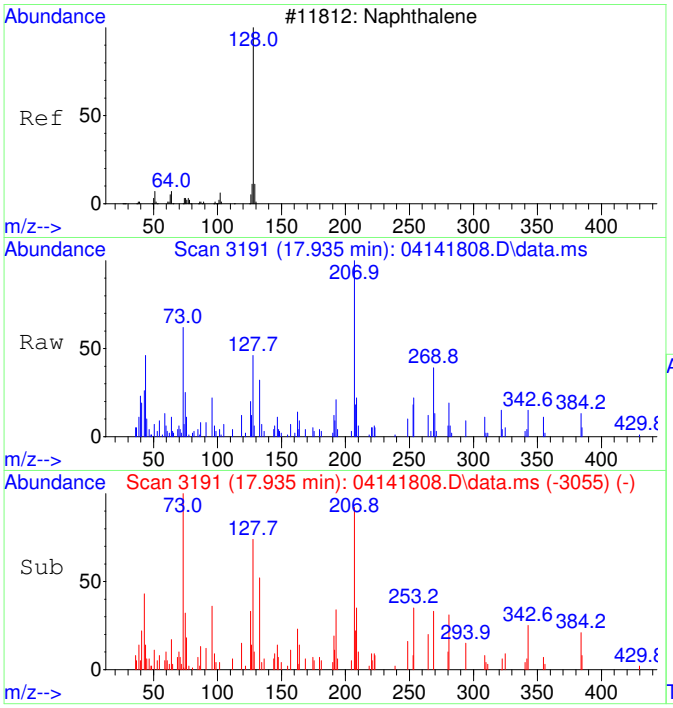


#47
1,2,4-Trimethylbenzene SCAN
Concen: 107.30 ug/L
RT: 15.953 min Scan# 2731
Delta R.T. 0.005 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:105 Resp: 1651

Ion	Ratio	Lower	Upper
105	100		
120	31.4	12.8	72.8
119	5.5	0.0	42.5
77	34.5	0.0	42.2

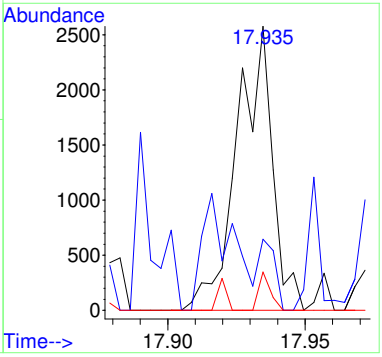


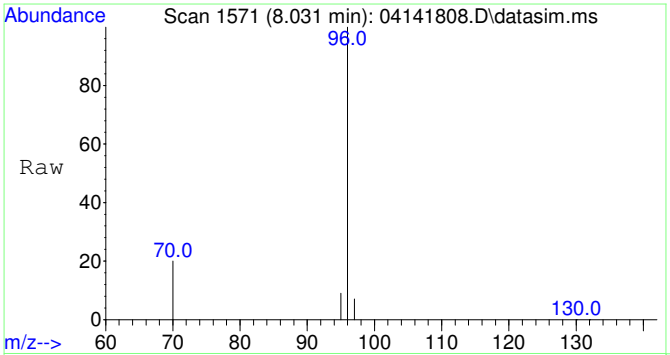


#48
Naphthalene SCAN
Concen: 108.26 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. 0.004 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:128 Resp: 2314

Ion	Ratio	Lower	Upper
128	100		
127	8.3	0.0	45.2
129	4.5	0.0	42.0

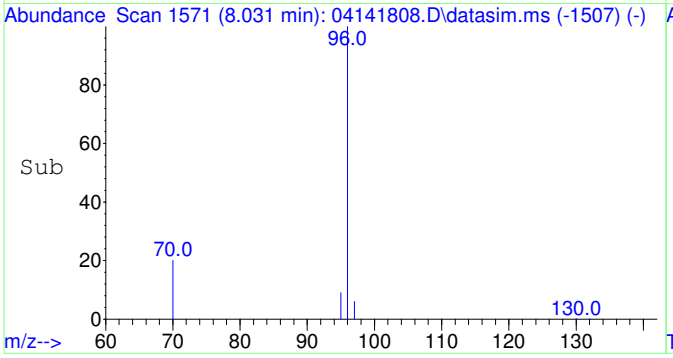


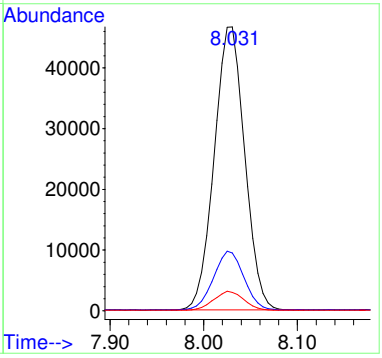


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.031 min Scan# 1571
Delta R.T. 0.005 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 96 Resp: 104972

Ion	Ratio	Lower	Upper
96	100		
70	20.5	0.0	50.7
97	6.6	0.0	36.7





Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141808.D
Acq On : 14 Apr 2018 13:38
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL6
Misc : 1745078 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

M.I. Performed By:
RH at 9:36 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:11 pm, Apr 16, 2018

Quant Time: Apr 16 09:28:24 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration

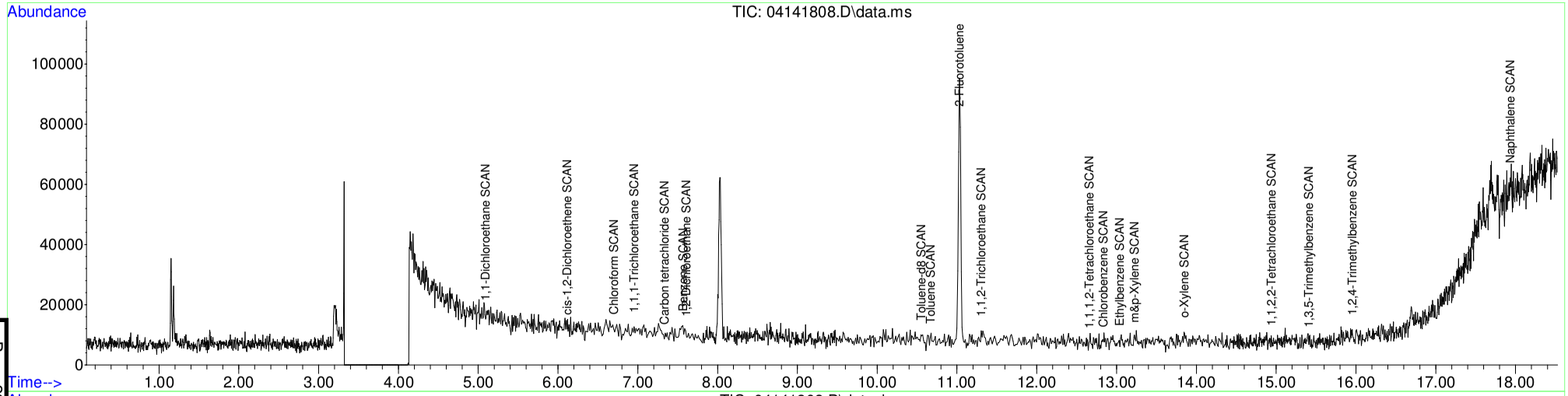
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	139779	5000.00 ug/L	0.00
49) Fluorobenzene	8.031	96	104972	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	1209	53.38 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.07%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	317m	47.39 ug/L	
3] trans-1,2-Dichloroethene	4.310	61	312	45.63 ug/L	73
4] 1,1-Dichloroethane	5.073	63	464	54.56 ug/L	90
5] cis-1,2-Dichloroethene	6.101	61	390	46.29 ug/L	84
6] Chloroform	6.676	83	547	58.06 ug/L	96
7] 1,1,1-Trichloroethane	6.931	97	475	53.15 ug/L	85
8] Carbon tetrachloride	7.211	117	433	52.71 ug/L	96
9] Benzene	7.540	78	1734	75.54 ug/L	80
10] 1,2-Dichloroethane	7.588	62	415	49.24 ug/L	64
11] Trichloroethene	8.618	130	323	53.55 ug/L	82
13] Toluene	10.634	91	1825	61.03 ug/L	91
14] 1,1,2-Trichloroethane	11.295	97	354	52.69 ug/L	67
15] Tetrachloroethene	11.495	166	419	48.66 ug/L	92
16] Chlorobenzene	12.829	112	1069	51.69 ug/L	89
17] 1,1,1,2-Tetrachloroethane	12.980	131	355	54.96 ug/L	80
18] Ethylbenzene	13.035	91	1749	49.70 ug/L	89
19] m&p-Xylene	13.226	91	2848	104.04 ug/L	95
20] o-Xylene	13.846	91	1450	50.02 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.944	83	647	46.53 ug/L	92
22] 1,3,5-Trimethylbenzene	15.408	105	1619	52.39 ug/L	99
23] 1,2,4-Trimethylbenzene	15.954	105	1710	56.17 ug/L	99
24] Naphthalene	17.932	128	2977	62.25 ug/L	84
25) 2-Fluorotoluene SCAN	11.032	109	62739	3759.57 ug/L	97
28) 1,1-Dichloroethane SCAN	5.085	63	788	144.77 ug/L #	49
29) cis-1,2-Dichloroethene...	6.113	61	120	22.29 ug/L #	1
30) Chloroform SCAN	6.699	83	1054	186.31 ug/L #	19
31) 1,1,1-Trichloroethane ...	6.955	97	412	76.76 ug/L #	29
32) Carbon tetrachloride SCAN	7.332	117	91	22.97 ug/L #	22
33) Benzene SCAN	7.563	78	2154	140.91 ug/L #	49
34) 1,2-Dichloroethane SCAN	7.599	62	307	53.08 ug/L #	42
36) Toluene-d8 SCAN	10.549	98	1075	81.46 ug/L #	34
37) Toluene SCAN	10.665	91	1790	98.85 ug/L #	24
38) 1,1,2-Trichloroethane ...	11.305	97	709	164.47 ug/L #	42
40) Chlorobenzene SCAN	12.836	112	264	22.45 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.653	131	94	23.81 ug/L #	6
42) Ethylbenzene SCAN	13.034	91	773	41.18 ug/L #	61
43) m&p-Xylene SCAN	13.217	91	1884	59.97 ug/L #	52
44) o-Xylene SCAN	13.844	91	1421	80.47 ug/L #	38
45) 1,1,2,2-Tetrachloroeth...	14.942	83	462	39120.22 ug/L #	29
46) 1,3,5-Trimethylbenzene...	15.407	105	375	24.81 ug/L #	1
47) 1,2,4-Trimethylbenzene...	15.953	105	1651	107.30 ug/L	75
48) Naphthalene SCAN	17.935	128	2314	108.26 ug/L	82

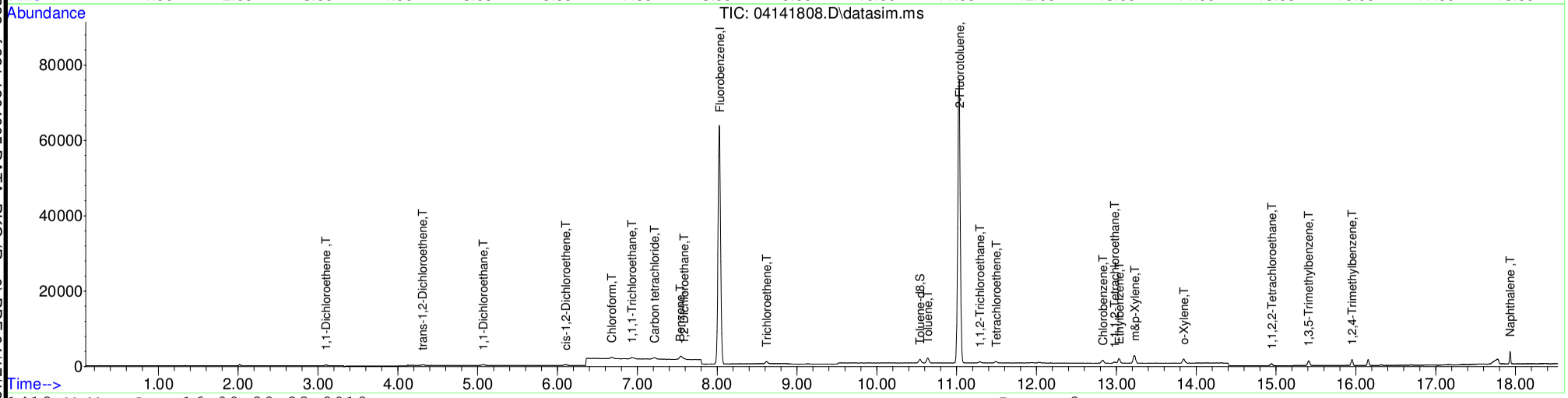
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141808.D
Acq On : 14 Apr 2018 13:38
InstName : AG5975C
Operator : RH
Sample : S18D063-CAL6
Misc : 1745078 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 16 09:28:24 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:24:57 2018
Response via : Initial Calibration





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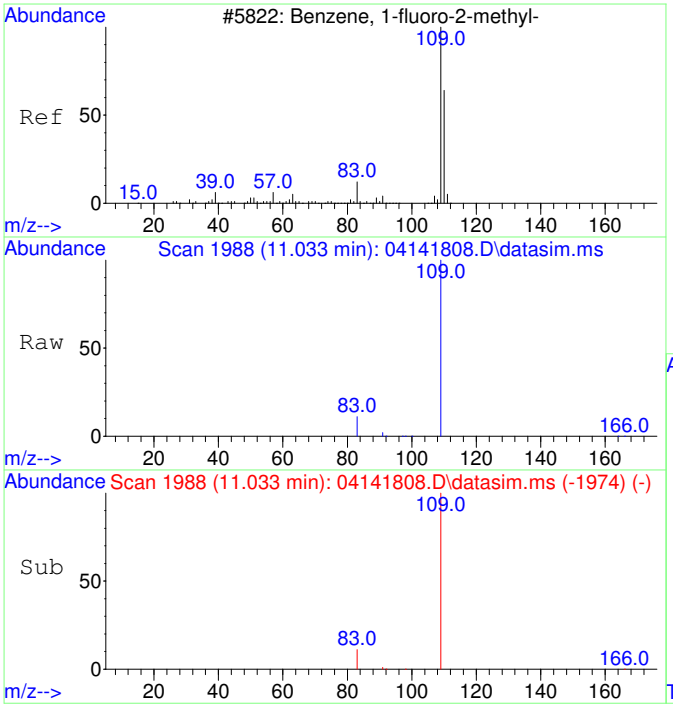
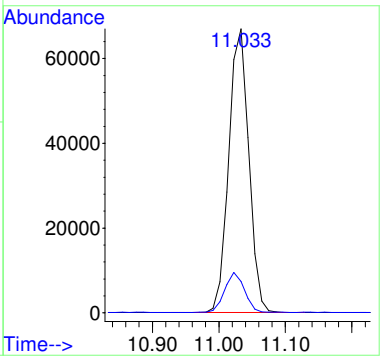
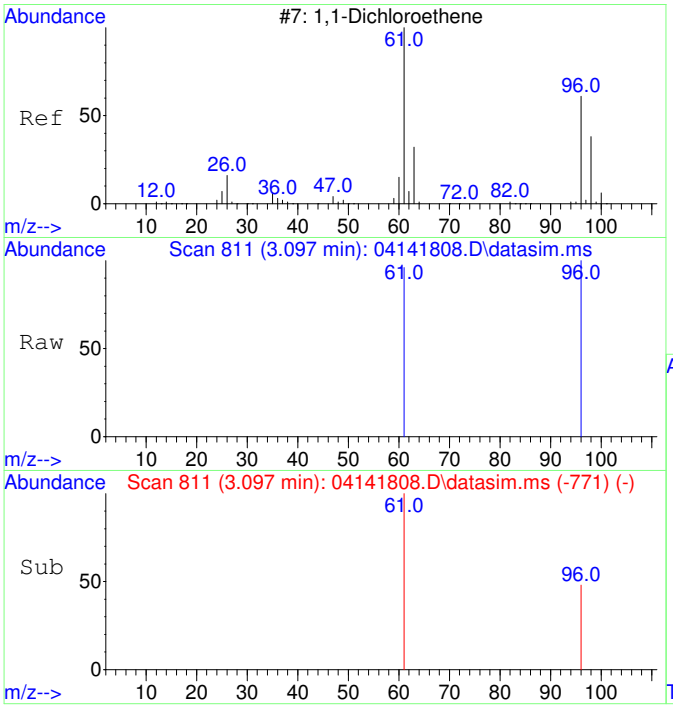


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:109 Resp: 139779

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	44.4

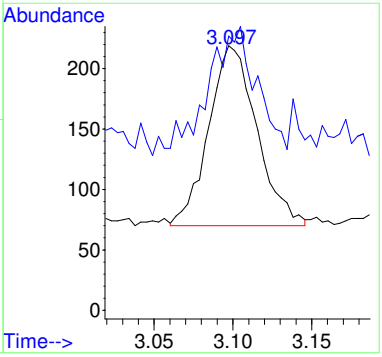


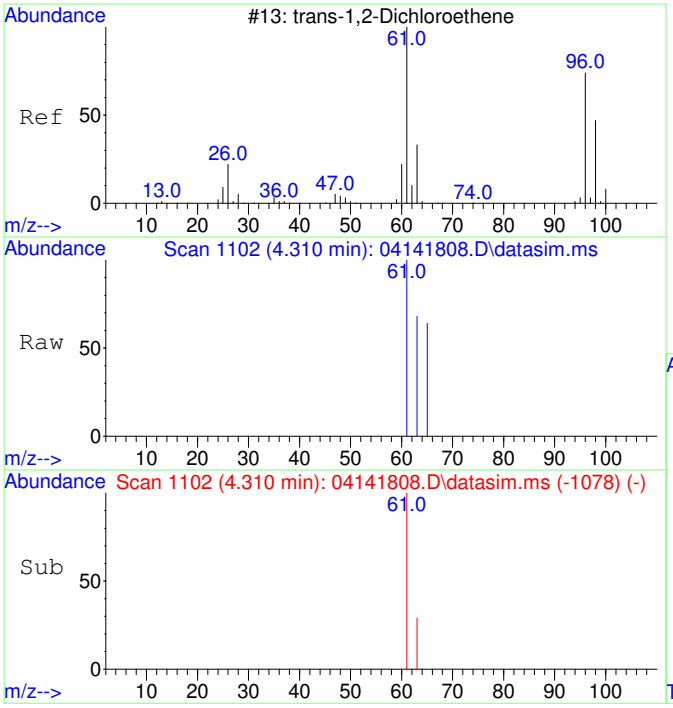


#2
1,1-Dichloroethene
Concen: 47.39 ug/L m
RT: 3.097 min Scan# 811
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 61 Resp: 317

Ion	Ratio	Lower	Upper
61	100		
96	148.3	26.1	86.1#

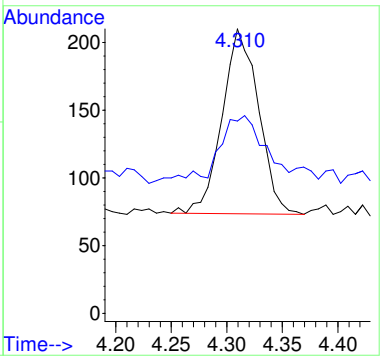


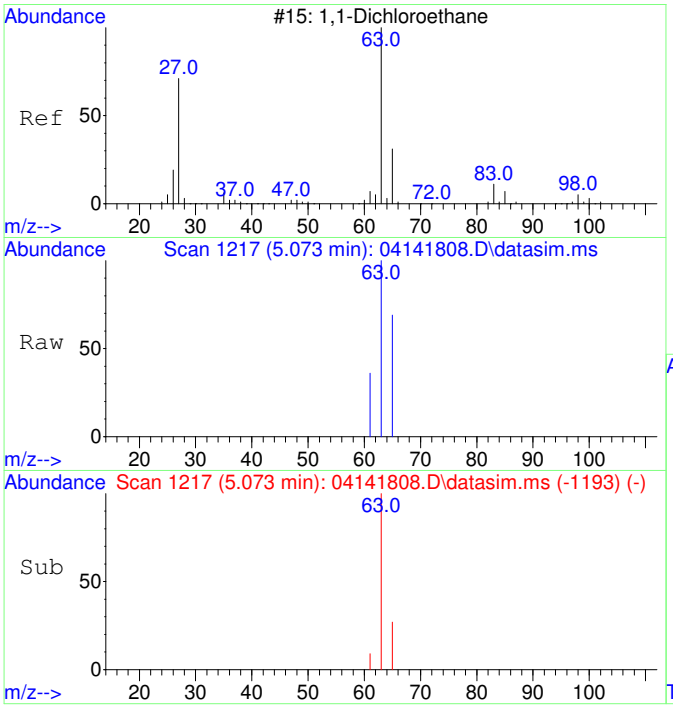


#3
trans-1,2-Dichloroethene
Concen: 45.63 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 61 Resp: 312

Ion	Ratio	Lower	Upper
61	100		
63	47.1	2.0	62.0

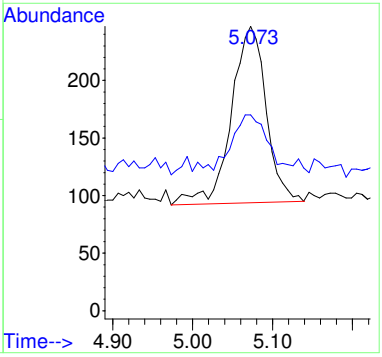


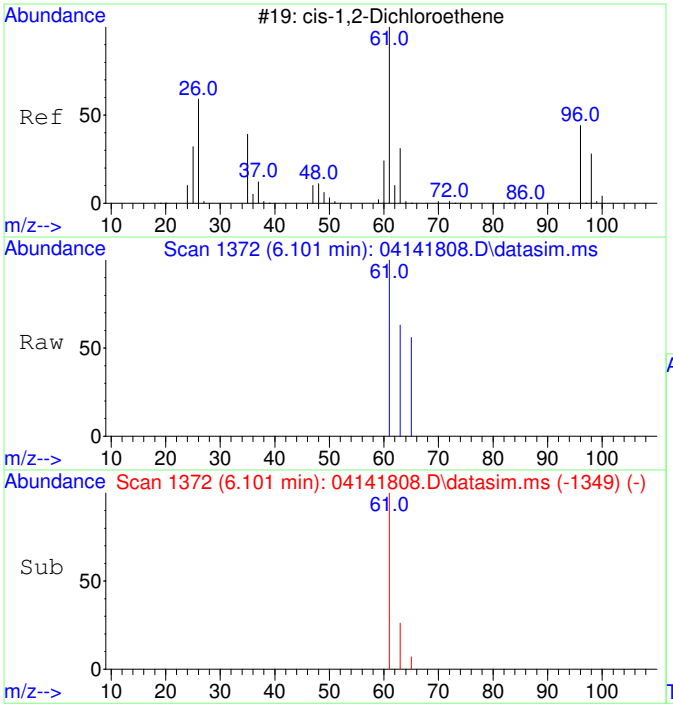


#4
1,1-Dichloroethane
Concen: 54.56 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 63 Resp: 464

Ion	Ratio	Lower	Upper
63	100		
65	37.5	1.8	61.8

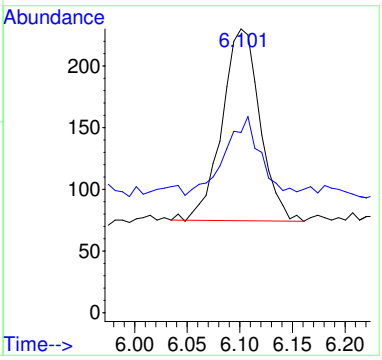


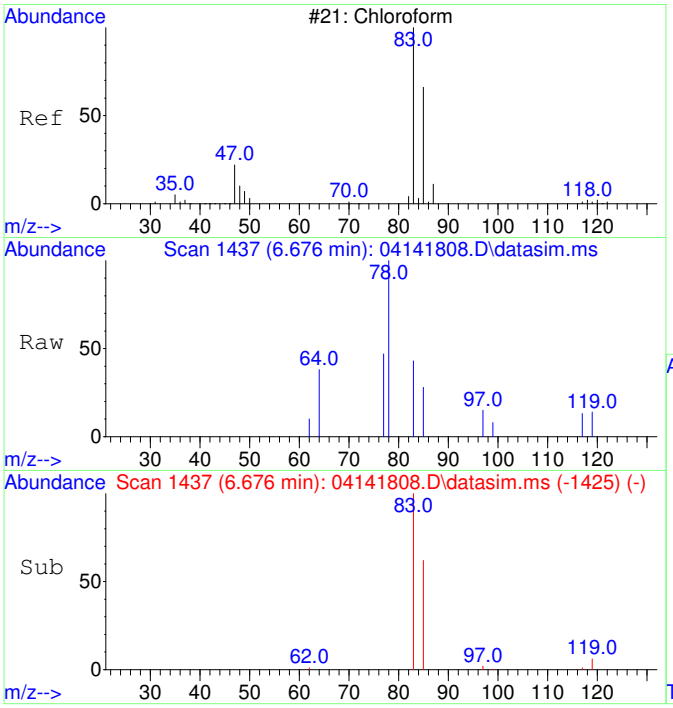


#5
cis-1,2-Dichloroethene
Concen: 46.29 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 61 Resp: 390

Ion	Ratio	Lower	Upper
61	100		
63	41.0	2.0	62.0

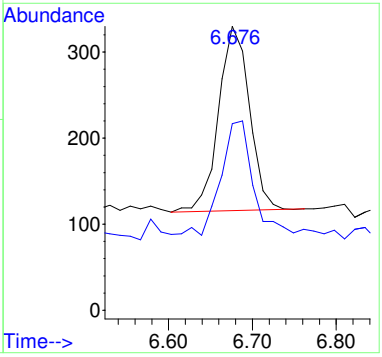


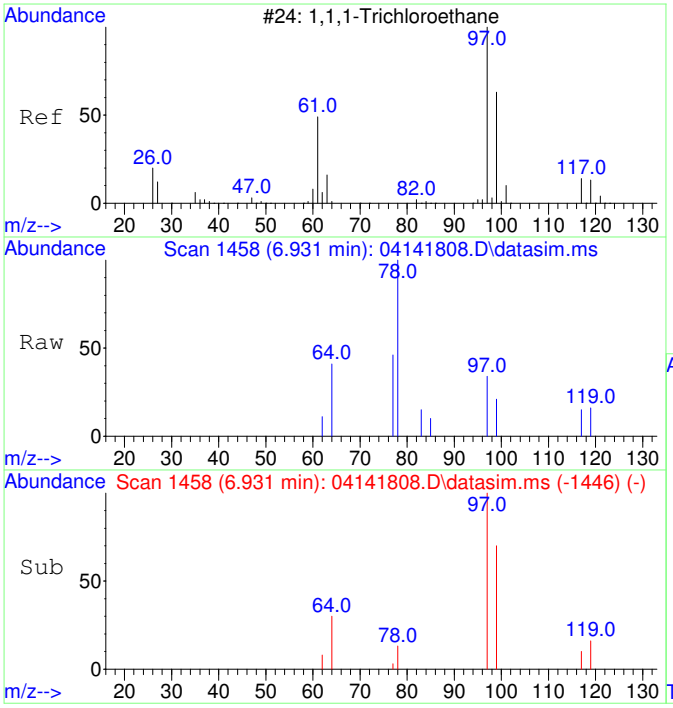


#6
Chloroform
Concen: 58.06 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 83 Resp: 547

Ion	Ratio	Lower	Upper
83	100		
85	67.6	34.2	94.2

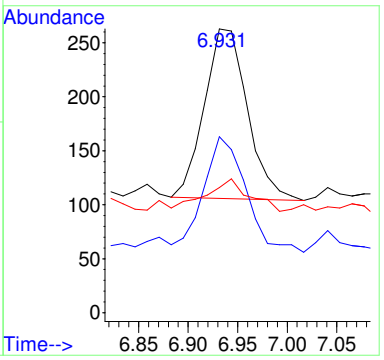


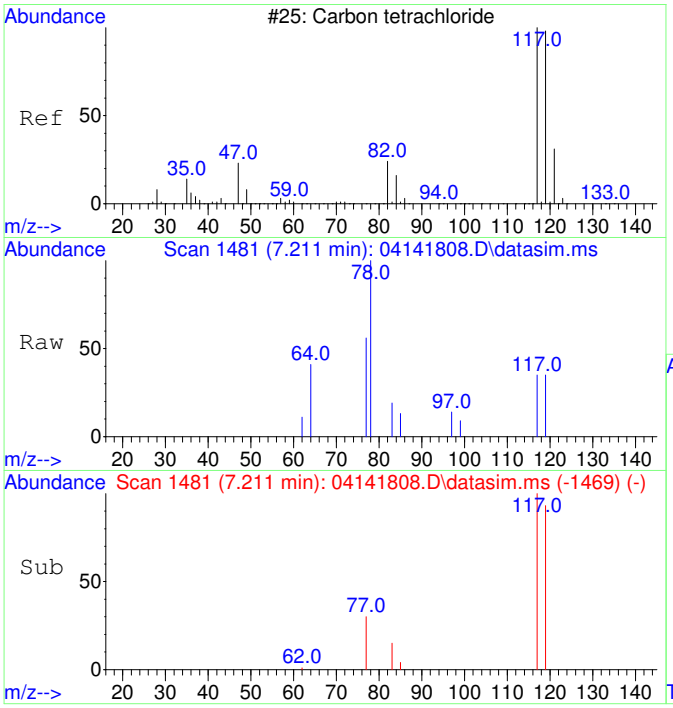


#7
1,1,1-Trichloroethane
Concen: 53.15 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 97 Resp: 475

Ion	Ratio	Lower	Upper
97	100		
99	74.7	34.5	94.5
117	21.5	0.0	42.6

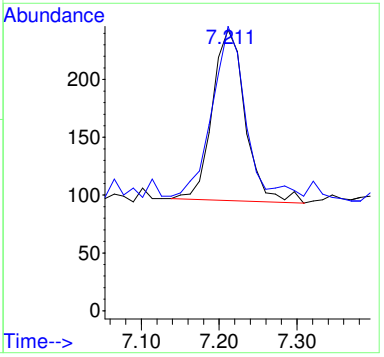


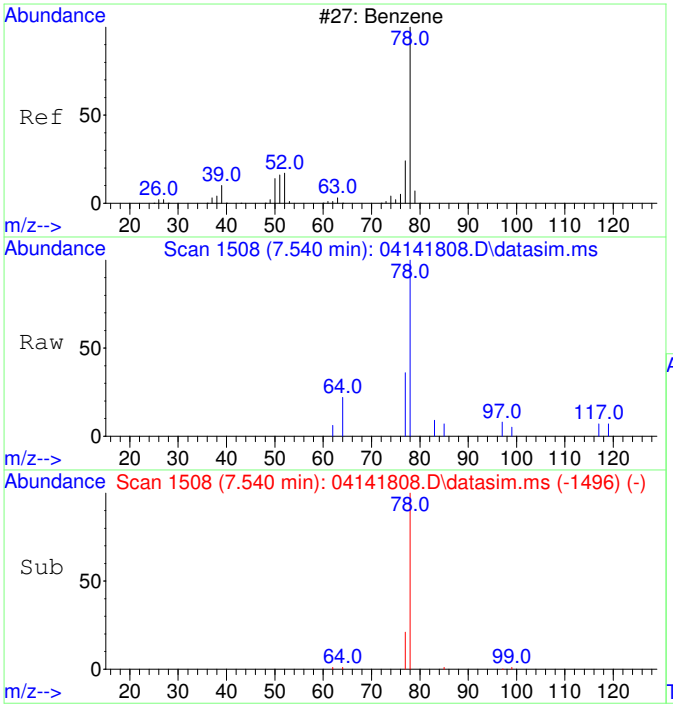


#8
Carbon tetrachloride
Concen: 52.71 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:117 Resp: 433

Ion	Ratio	Lower	Upper
117	100		
119	98.6	64.5	124.5

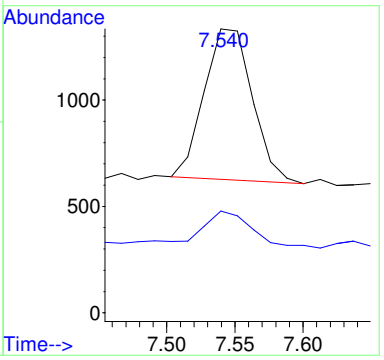


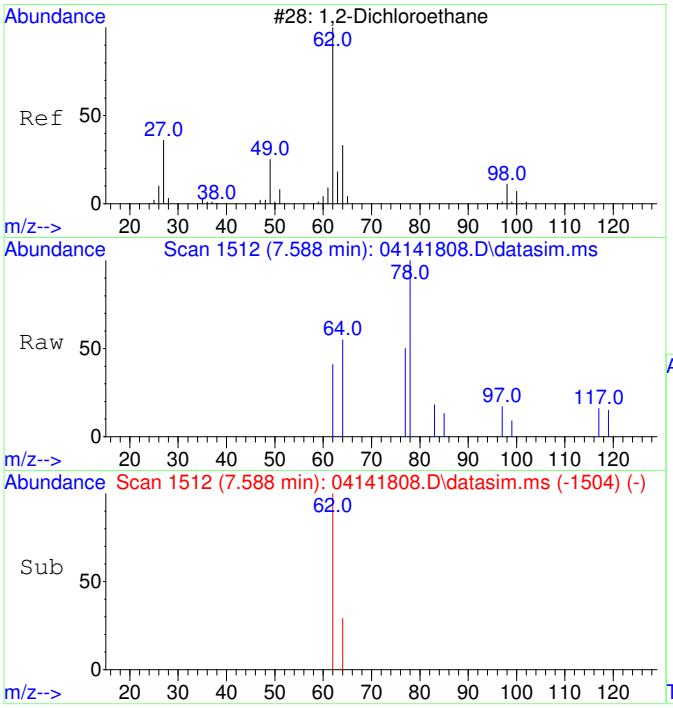


#9
Benzene
Concen: 75.54 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 78 Resp: 1734

Ion	Ratio	Lower	Upper
78	100		
77	33.2	0.0	53.6

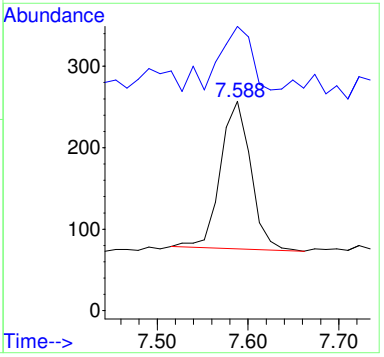


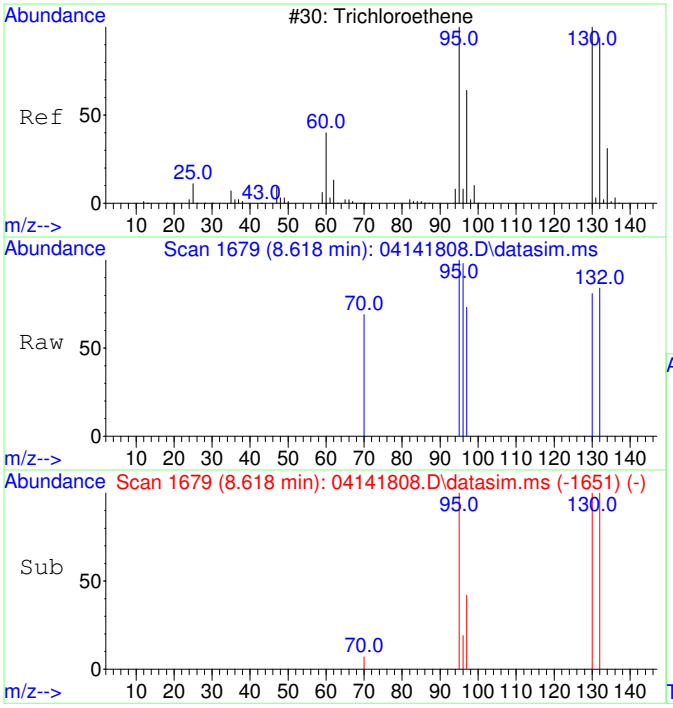


#10
1,2-Dichloroethane
Concen: 49.24 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 62 Resp: 415

Ion	Ratio	Lower	Upper
62	100		
64	51.6	1.8	61.8

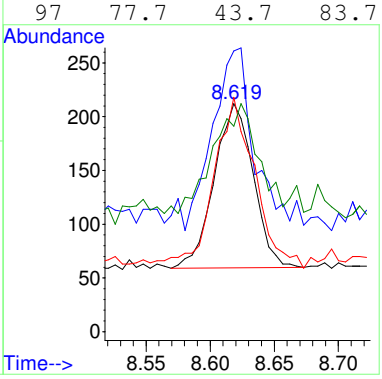


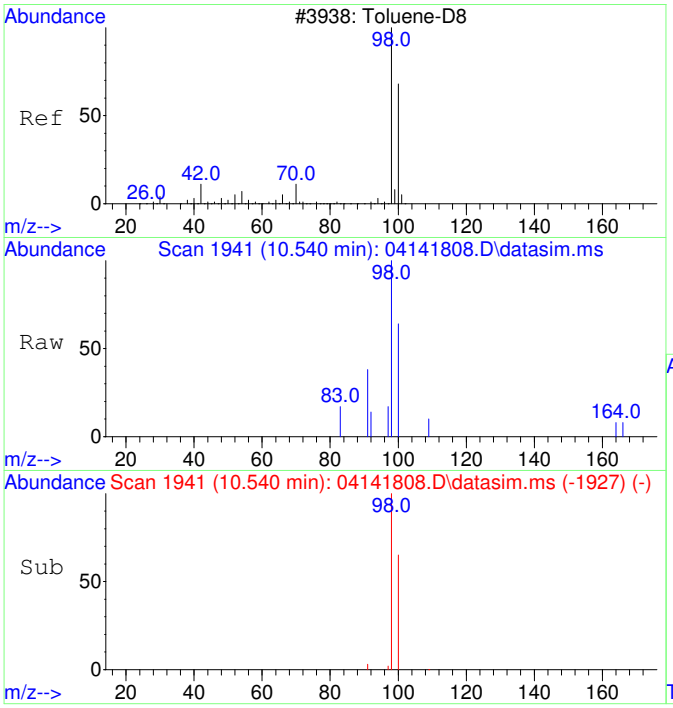


#11
Trichloroethene
Concen: 53.55 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:130 Resp: 323

Ion	Ratio	Lower	Upper
130	100		
95	122.9	68.8	128.8
132	110.8	78.6	118.6
97	77.7	43.7	83.7

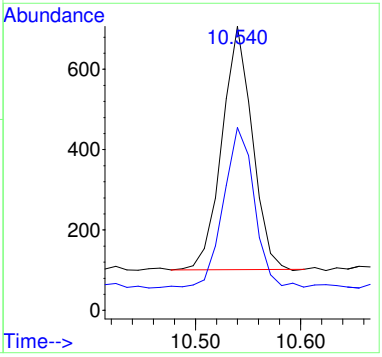


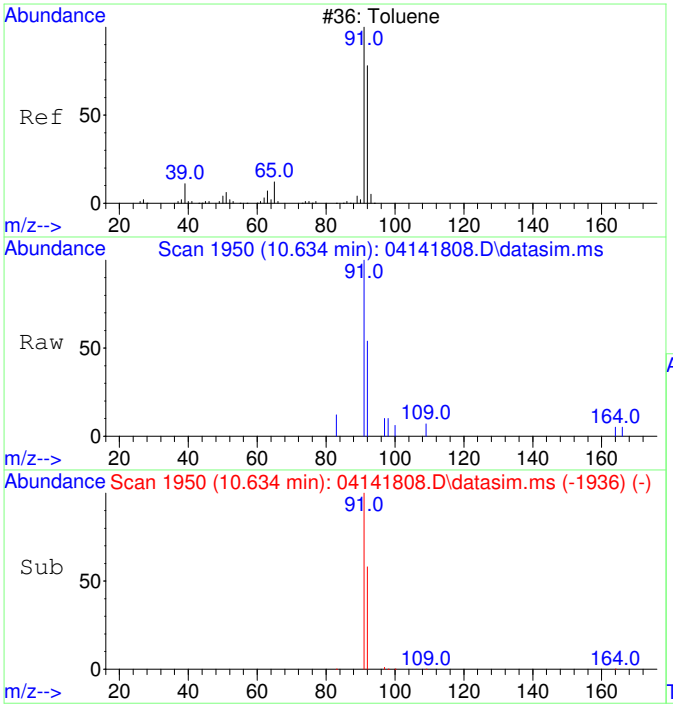


#12
Toluene-d8
Concen: 53.38 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 98 Resp: 1209

Ion	Ratio	Lower	Upper
98	100		
100	67.0	36.9	96.9

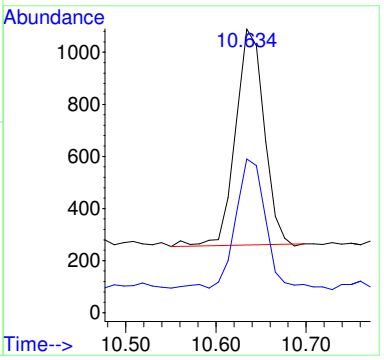


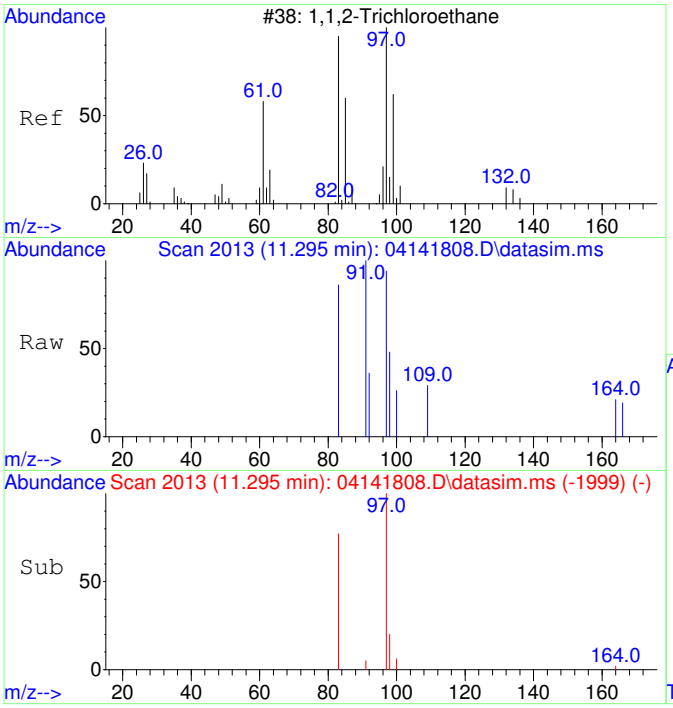


#13
Toluene
Concen: 61.03 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1825

Ion	Ratio	Lower	Upper
91	100		
92	65.8	28.8	88.8

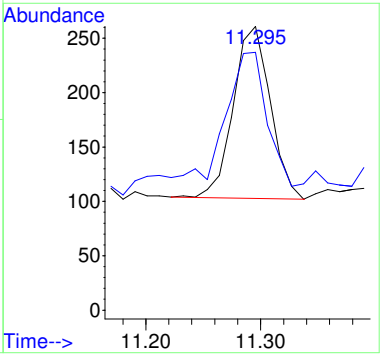


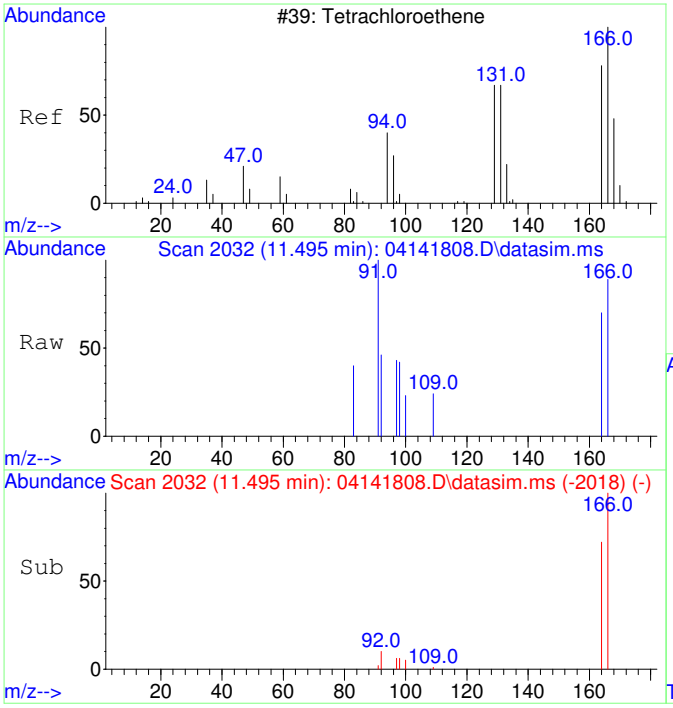


#14
1,1,2-Trichloroethane
Concen: 52.69 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 97 Resp: 354

Ion	Ratio	Lower	Upper
97	100		
83	114.1	54.3	114.3

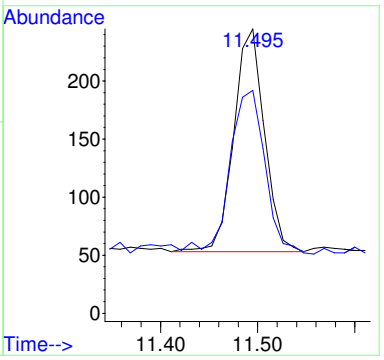


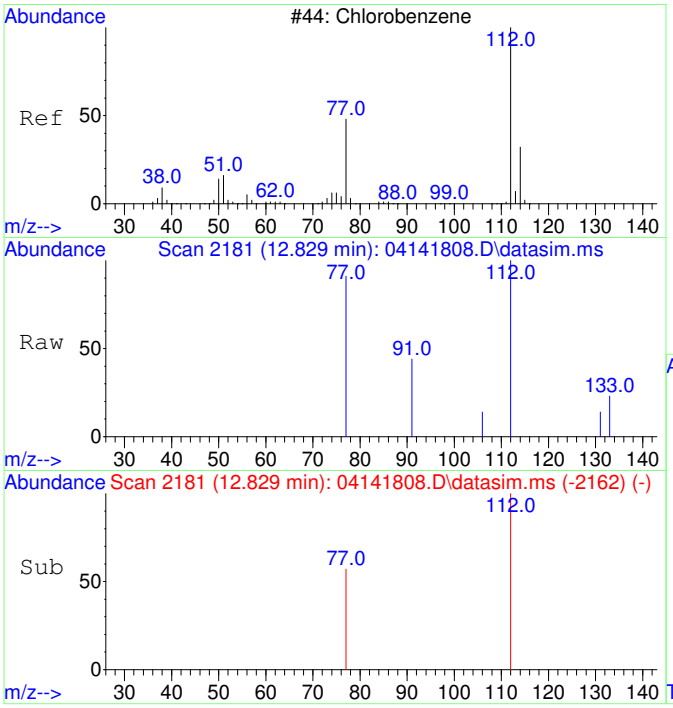


#15
Tetrachloroethene
Concen: 48.66 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:166 Resp: 419

Ion	Ratio	Lower	Upper
166	100		
164	84.7	48.0	108.0

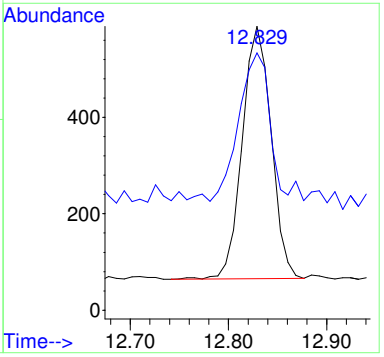


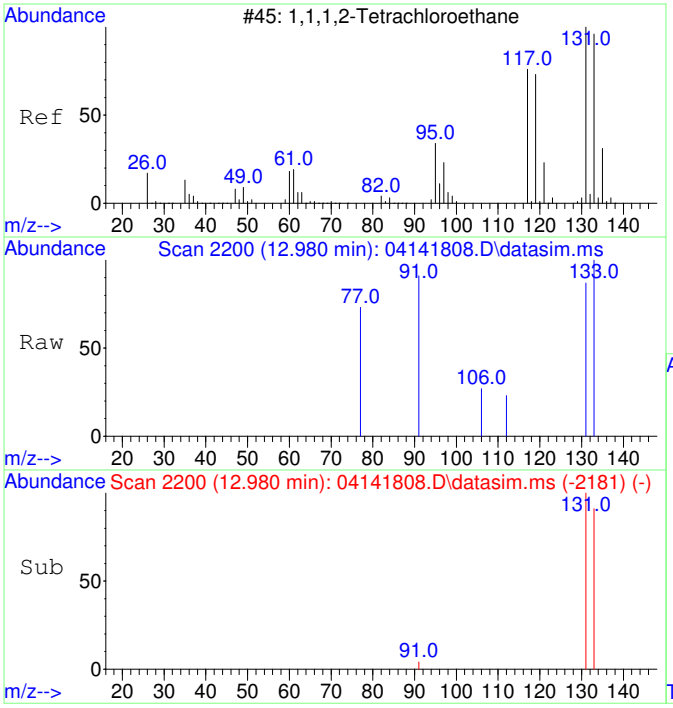


#16
Chlorobenzene
Concen: 51.69 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:112 Resp: 1069

Ion	Ratio	Lower	Upper
112	100		
77	67.6	29.4	89.4

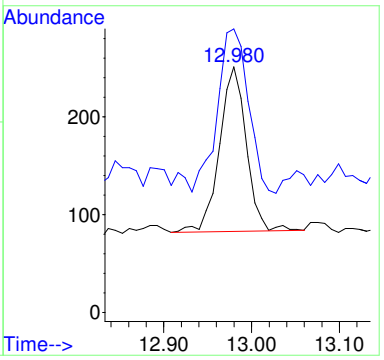


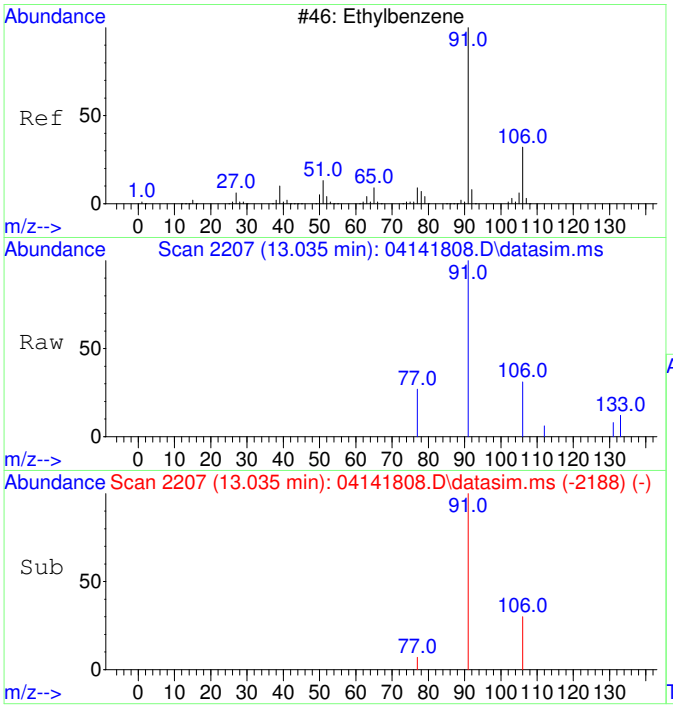


#17
1,1,1,2-Tetrachloroethane
Concen: 54.96 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:131 Resp: 355

Ion	Ratio	Lower	Upper
131	100		
133	114.4	65.1	125.1

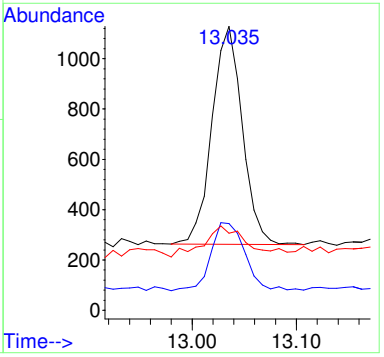


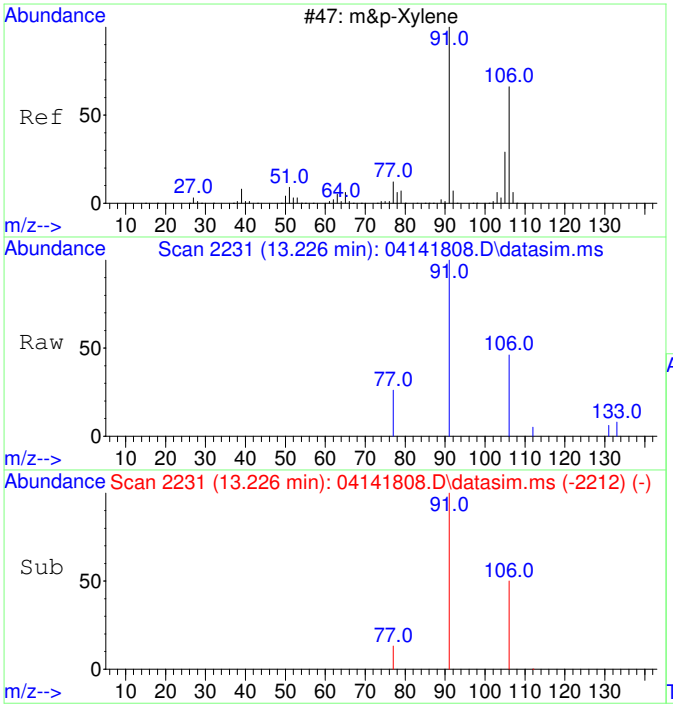


#18
Ethylbenzene
Concen: 49.70 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1749

Ion	Ratio	Lower	Upper
91	100		
106	34.7	1.8	61.8
77	20.4	0.0	38.7

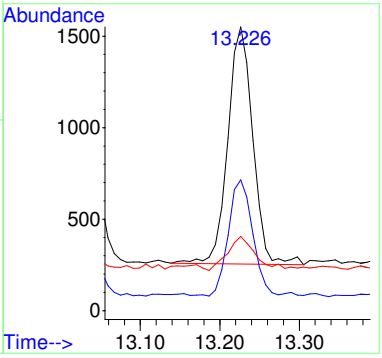


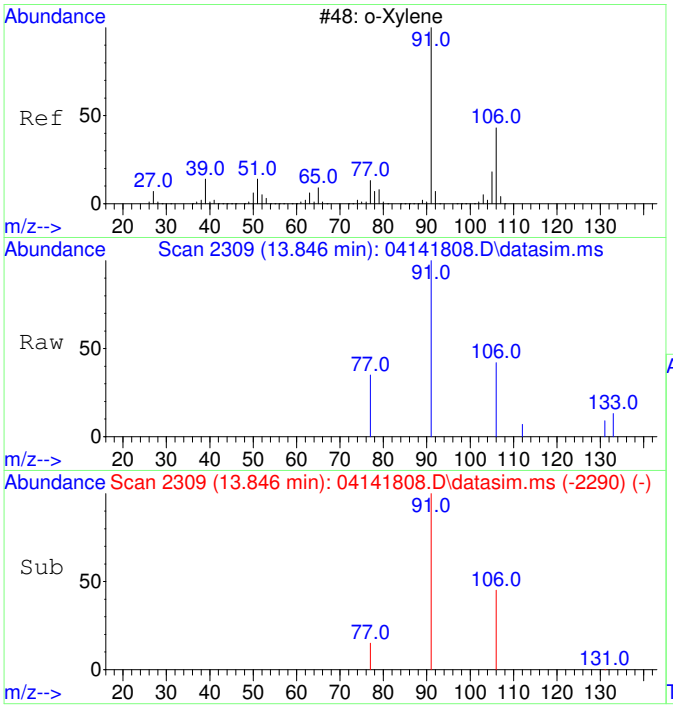


#19
m&p-Xylene
Concen: 104.04 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 2848

Ion	Ratio	Lower	Upper
91	100		
106	46.9	20.0	80.0
77	16.2	0.0	43.4

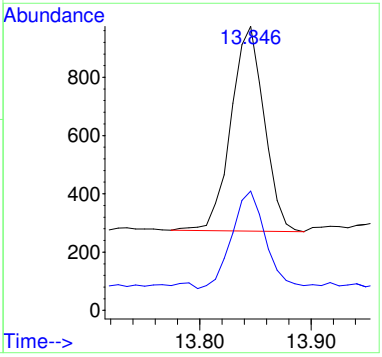


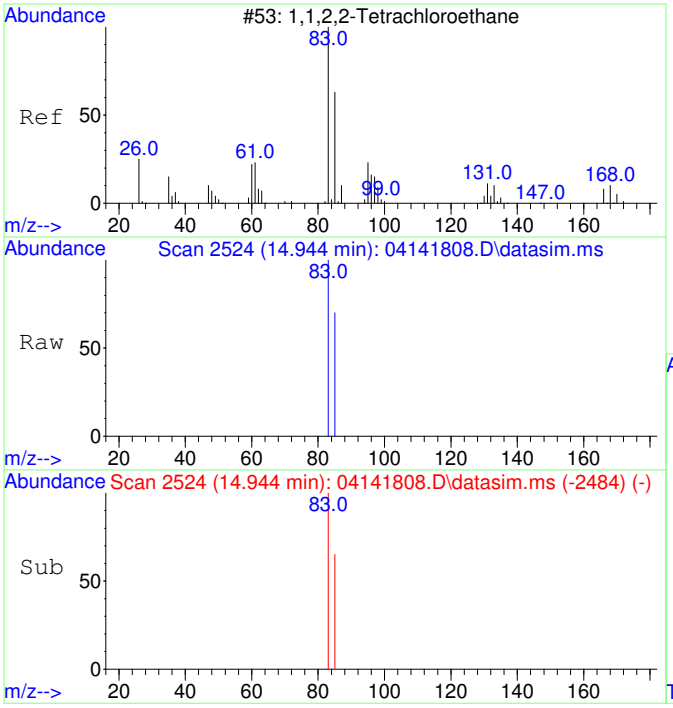


#20
o-Xylene
Concen: 50.02 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1450

Ion	Ratio	Lower	Upper
91	100		
106	48.7	16.9	76.9

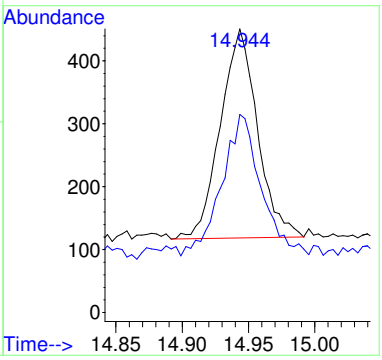


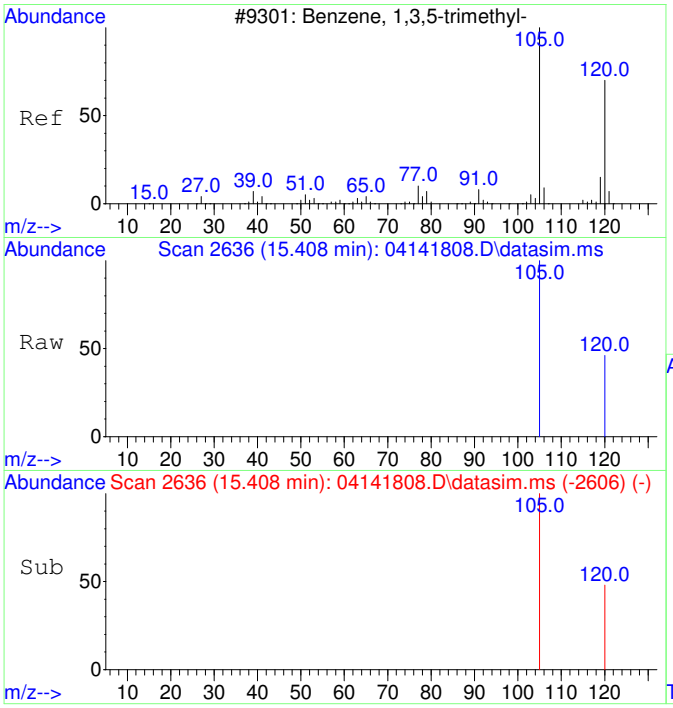


#21
1,1,2,2-Tetrachloroethane
Concen: 46.53 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 83 Resp: 647

Ion	Ratio	Lower	Upper
83	100		
85	70.9	34.3	94.3

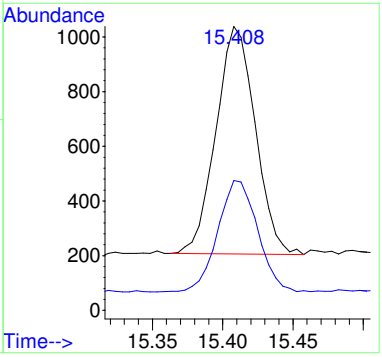


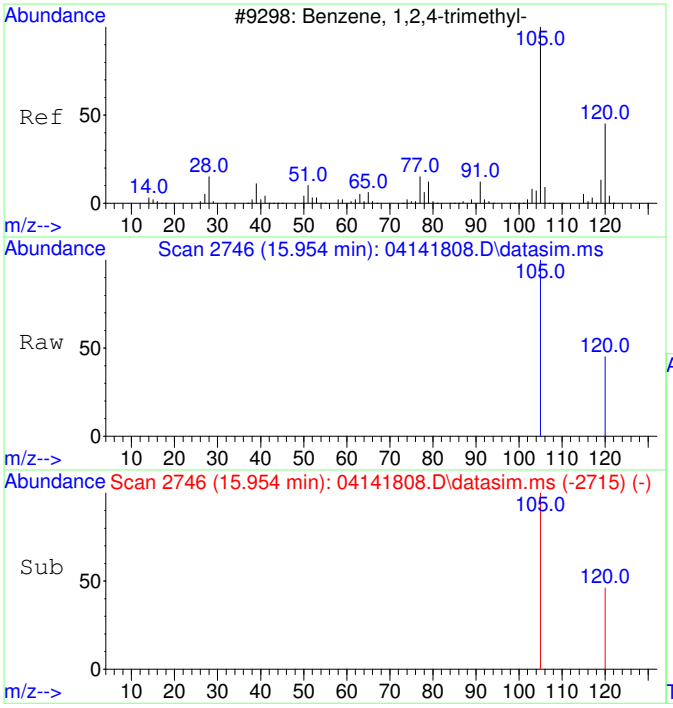


#22
1,3,5-Trimethylbenzene
Concen: 52.39 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:105 Resp: 1619

Ion	Ratio	Lower	Upper
105	100		
120	49.0	18.1	78.1

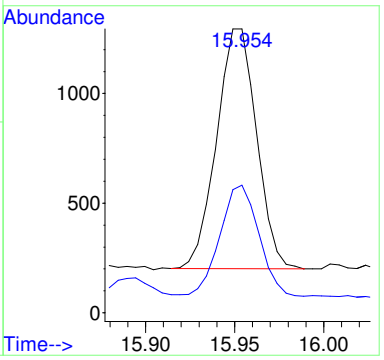


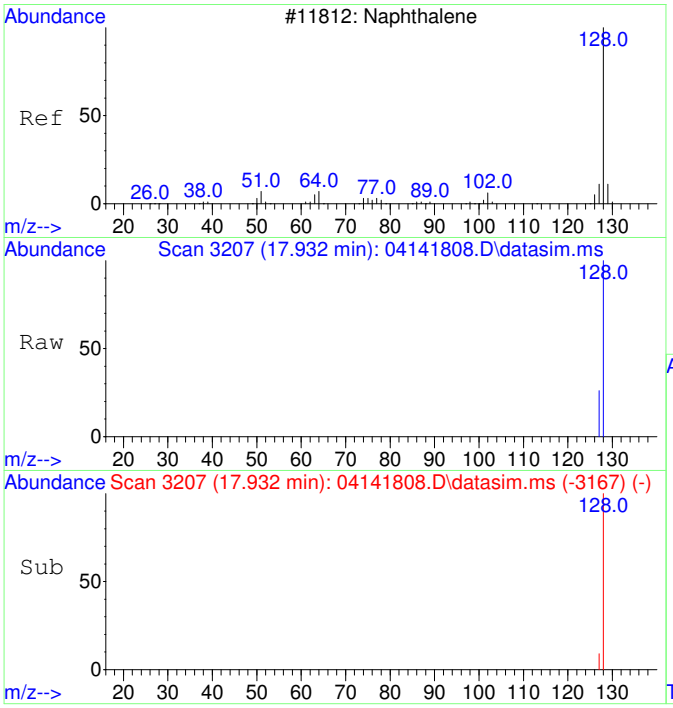


#23
1,2,4-Trimethylbenzene
Concen: 56.17 ug/L
RT: 15.954 min Scan# 2746
Delta R.T. 0.005 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:105 Resp: 1710

Ion	Ratio	Lower	Upper
105	100		
120	44.0	14.5	74.5

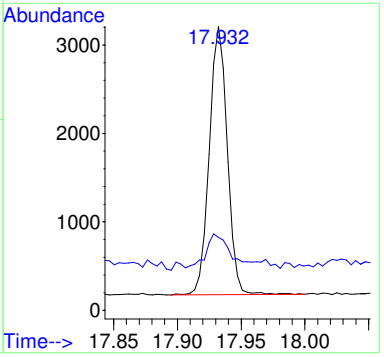


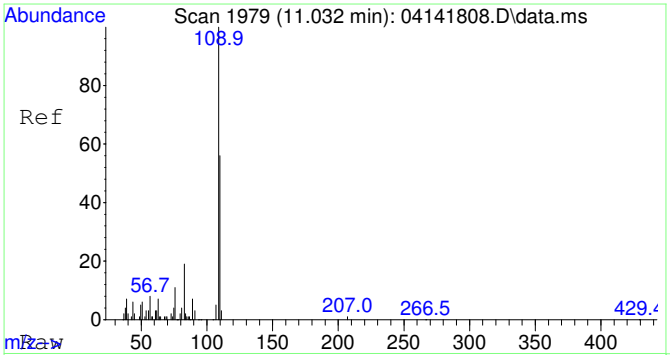


#24
Naphthalene
Concen: 62.25 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:128 Resp: 2977

Ion	Ratio	Lower	Upper
128	100		
127	19.1	0.0	42.7

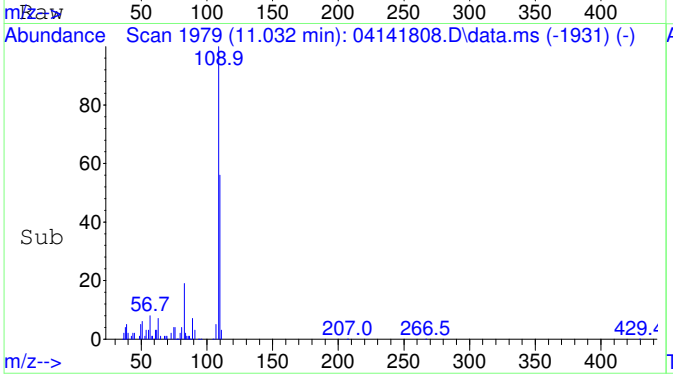


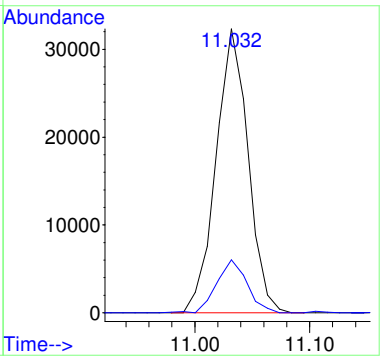


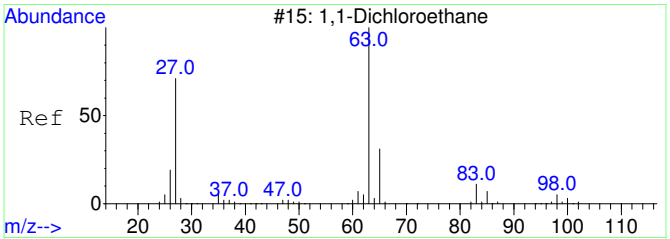
#25
2-Fluorotoluene SCAN
Concen: 3759.57 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

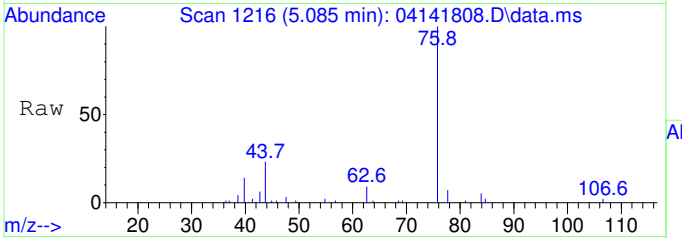
Tgt Ion:109 Resp: 62739

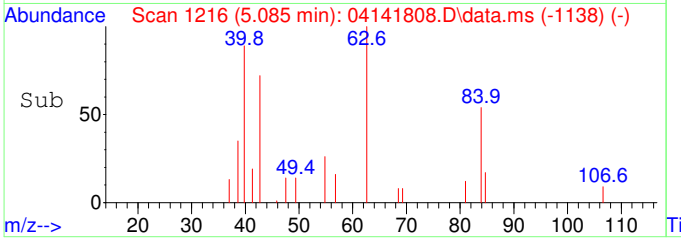
Ion	Ratio	Lower	Upper
109	100		
83	17.7	0.0	49.2







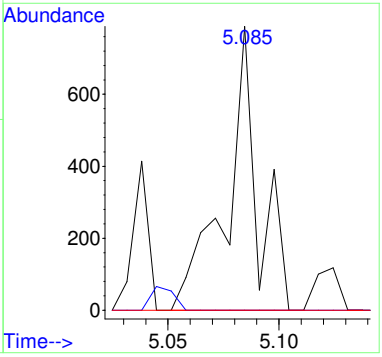


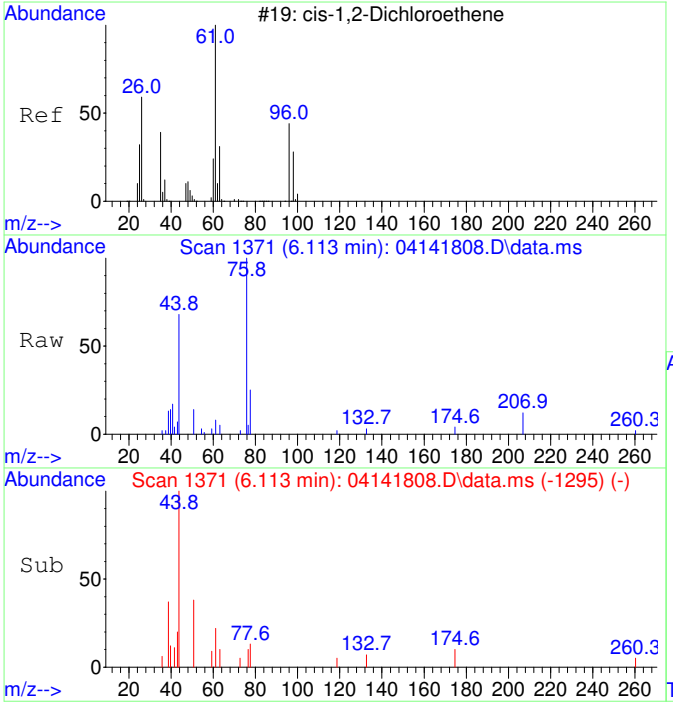


#28
1,1-Dichloroethane SCAN
Concen: 144.77 ug/L
RT: 5.085 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 63 Resp: 788

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	0.0	0.0	38.2

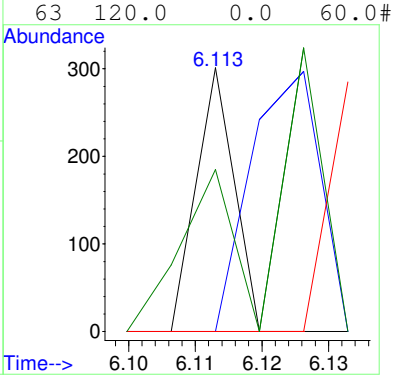


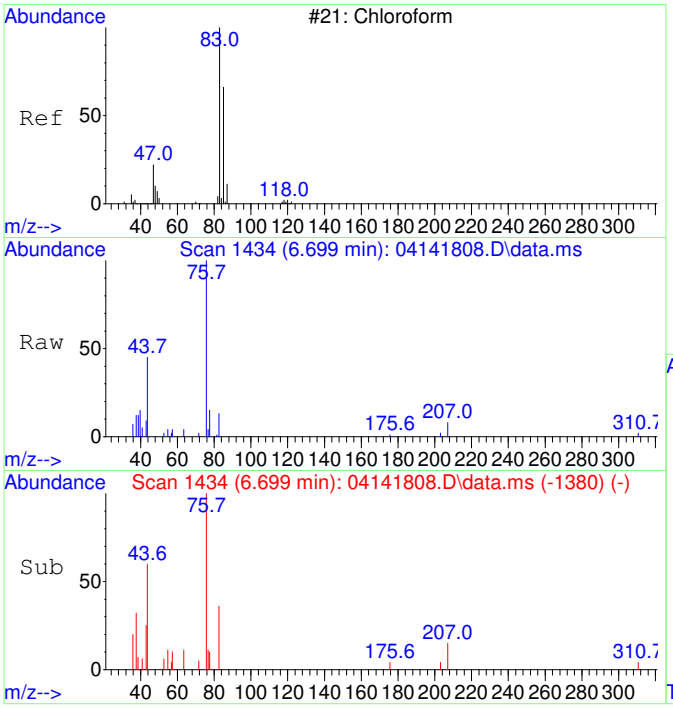


#29
cis-1,2-Dichloroethene SCAN
Concen: 22.29 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.007 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 61 Resp: 120

Ion	Ratio	Lower	Upper
61	100		
96	179.2	49.4	109.4#
98	128.3	9.5	69.5#
63	120.0	0.0	60.0#

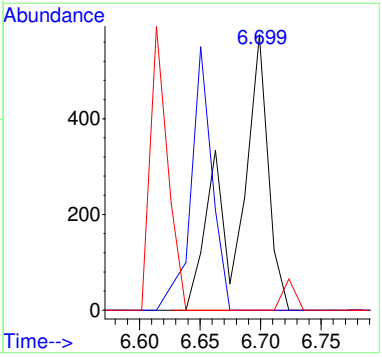


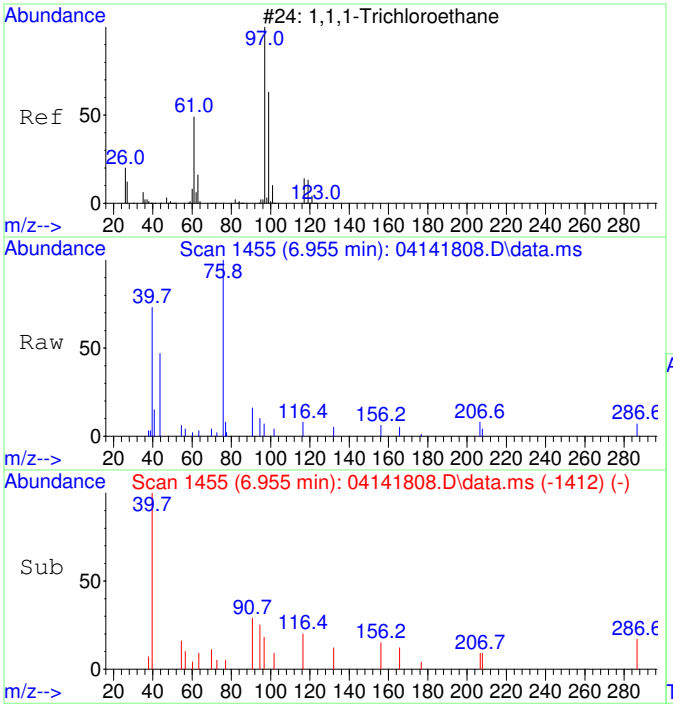


#30
Chloroform SCAN
Concen: 186.31 ug/L
RT: 6.699 min Scan# 1434
Delta R.T. 0.024 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 83 Resp: 1054

Ion	Ratio	Lower	Upper
83	100		
85	0.0	47.8	107.8#
47	0.0	8.2	68.2#

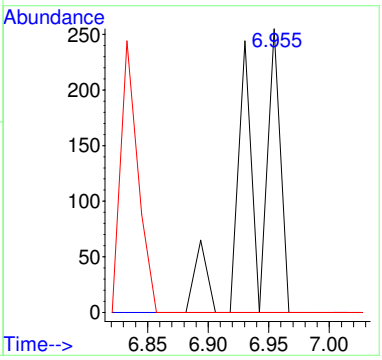


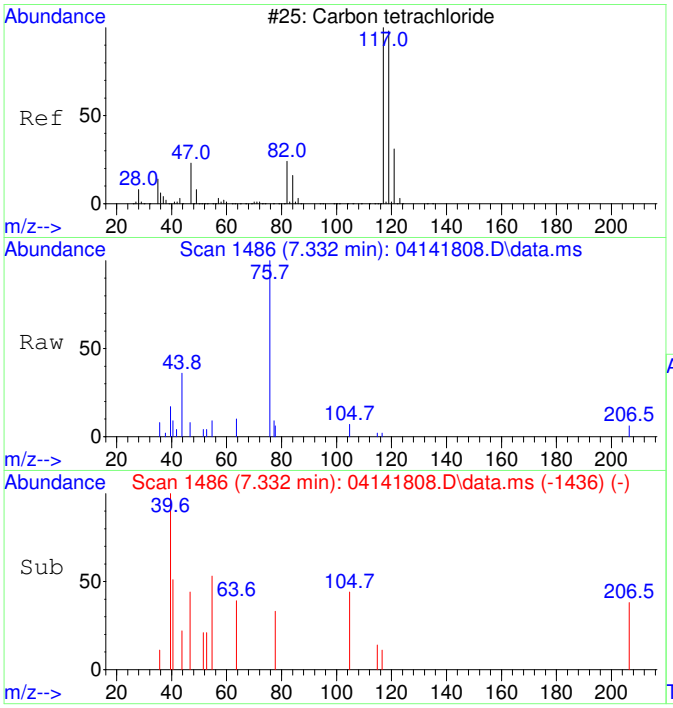


#31
1,1,1-Trichloroethane SCAN
Concen: 76.76 ug/L
RT: 6.955 min Scan# 1455
Delta R.T. 0.024 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 97 Resp: 412

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

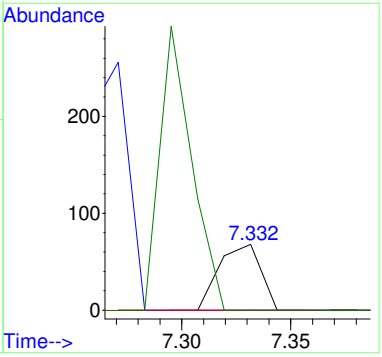


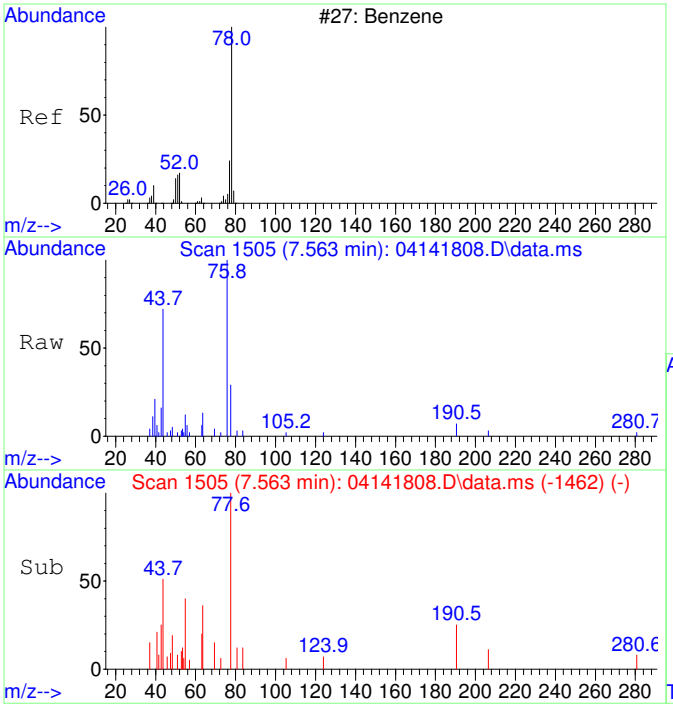


#32
Carbon tetrachloride SCAN
Concen: 22.97 ug/L
RT: 7.332 min Scan# 1486
Delta R.T. 0.109 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:117 Resp: 91

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

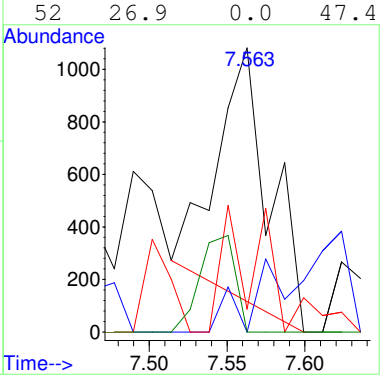


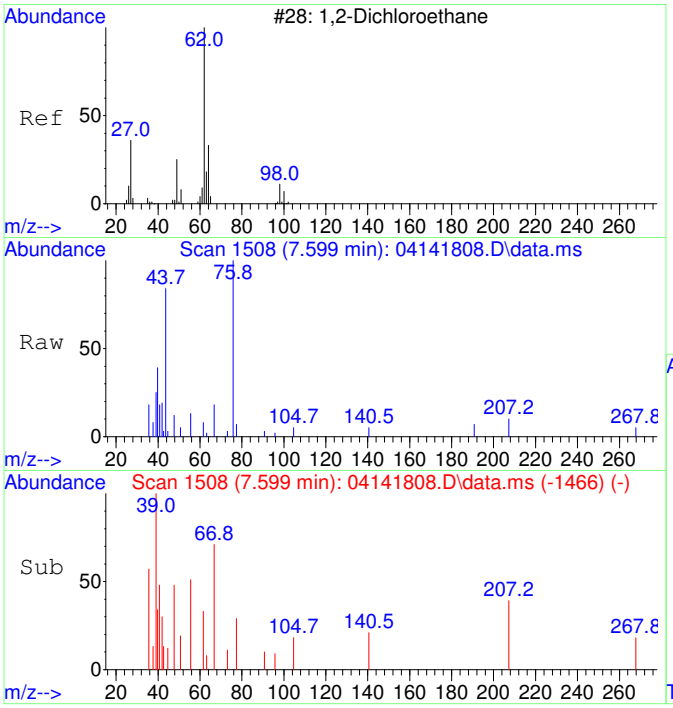


#33
Benzene SCAN
Concen: 140.91 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.024 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 78 Resp: 2154

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	44.3	0.0	47.2
52	26.9	0.0	47.4

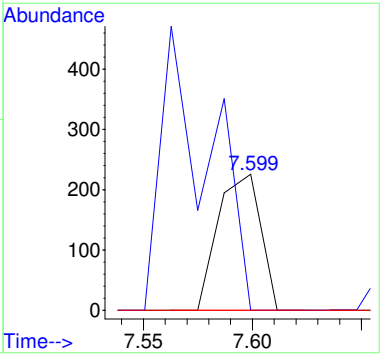


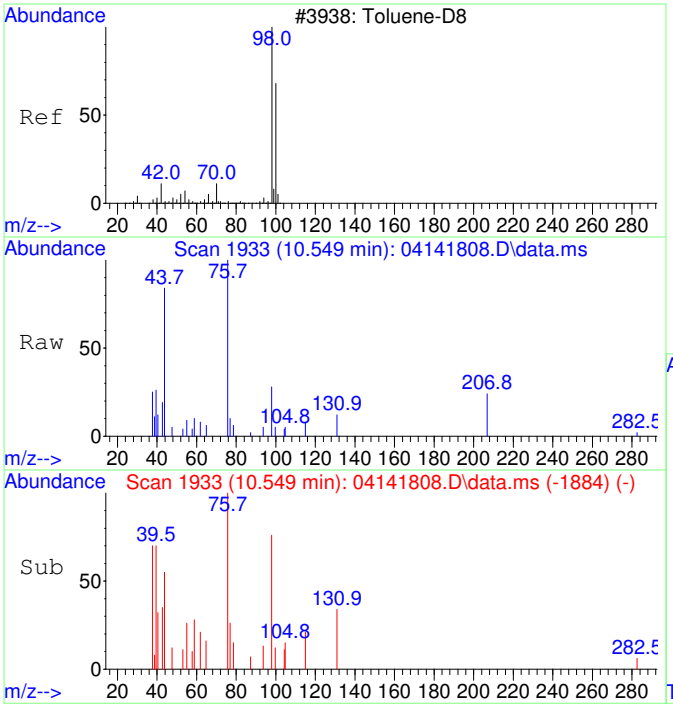


#34
1,2-Dichloroethane SCAN
Concen: 53.08 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 62 Resp: 307

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	0.0	1.2	61.2#

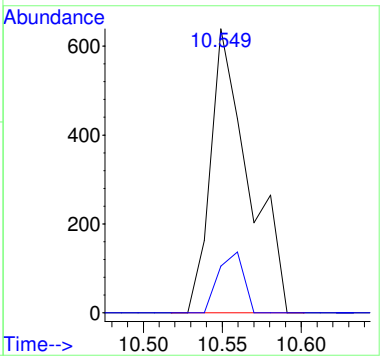


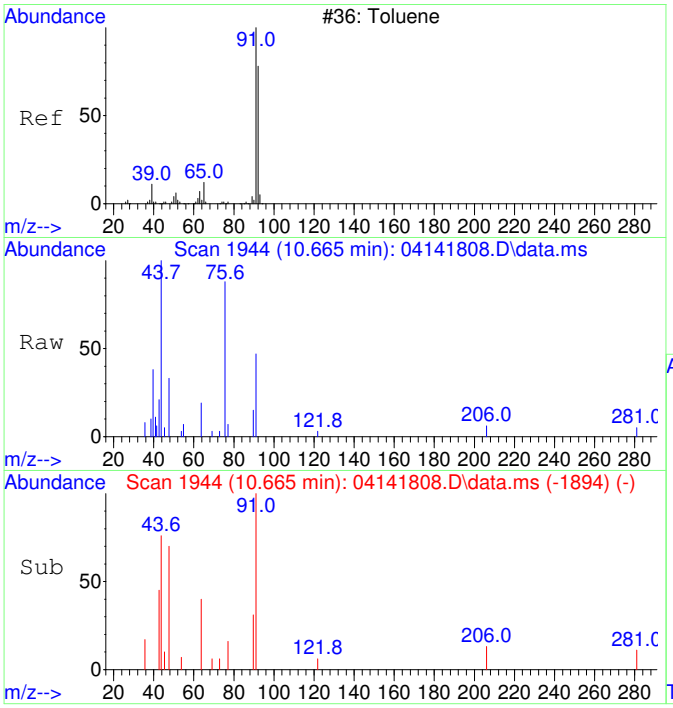


#36
Toluene-d8 SCAN
Concen: 81.46 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.010 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 98 Resp: 1075

Ion	Ratio	Lower	Upper
98	100		
100	14.1	37.3	97.3#

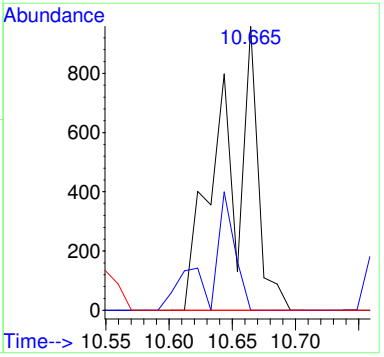


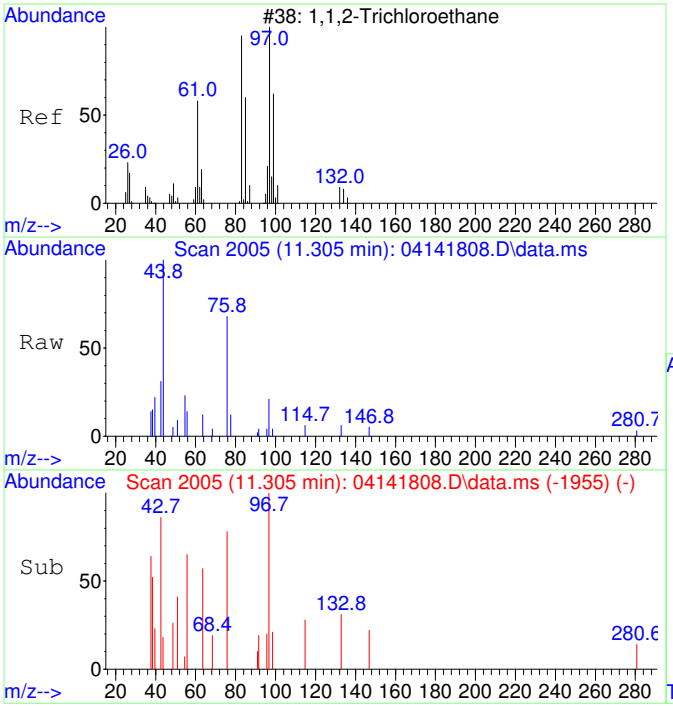


#37
Toluene SCAN
Concen: 98.85 ug/L
RT: 10.665 min Scan# 1944
Delta R.T. 0.021 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1790

Ion	Ratio	Lower	Upper
91	100		
92	0.0	39.1	99.1#
65	0.0	0.0	43.8

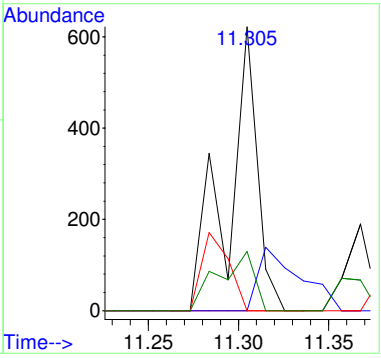


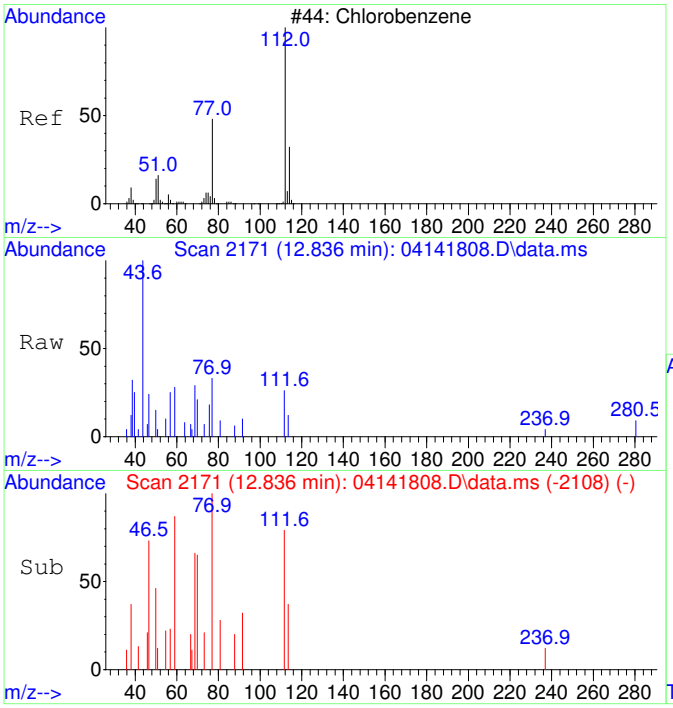


#38
1,1,2-Trichloroethane SCAN
Concen: 164.47 ug/L
RT: 11.305 min Scan# 2005
Delta R.T. 0.021 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 97 Resp: 709

Ion	Ratio	Lower	Upper
97	100		
83	31.6	47.4	107.4#
61	0.0	29.7	89.7#
99	25.2	26.5	86.5#

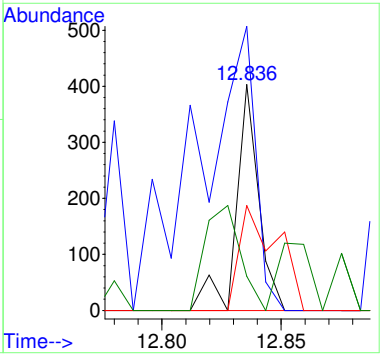


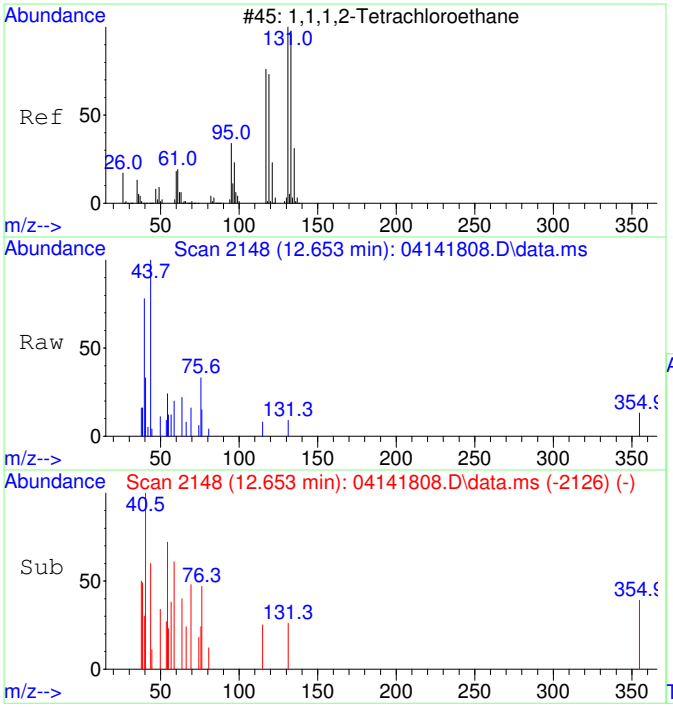


#40
Chlorobenzene SCAN
Concen: 22.45 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:112 Resp: 264

Ion	Ratio	Lower	Upper
112	100		
77	328.0	39.7	99.7#
114	78.0	1.2	61.2#
51	73.9	0.0	57.1#

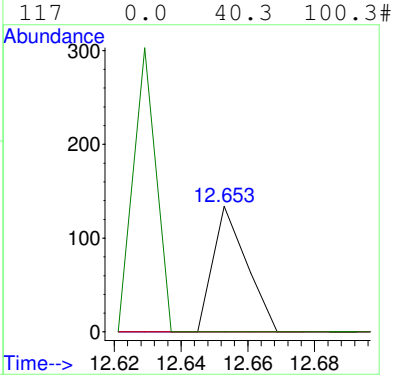


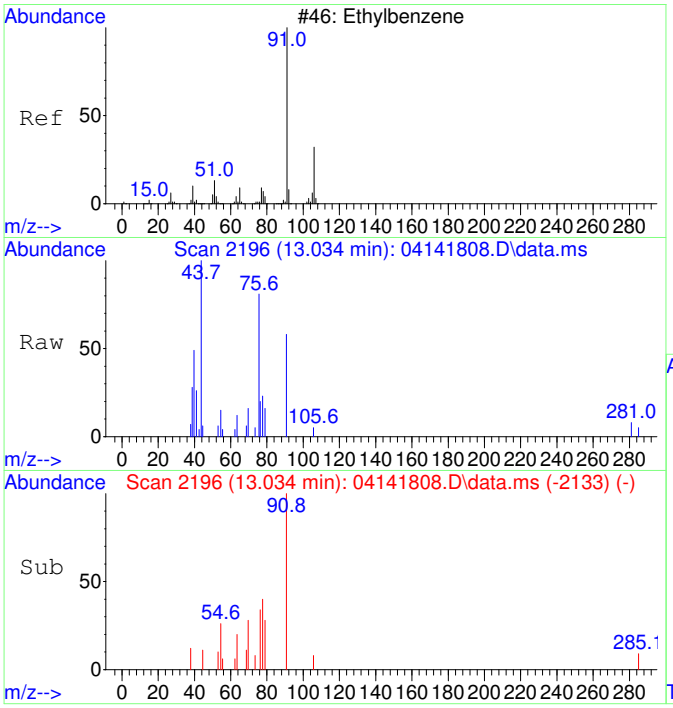


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 23.81 ug/L
RT: 12.653 min Scan# 2148
Delta R.T. -0.326 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:131 Resp: 94

Ion	Ratio	Lower	Upper
131	100		
133	0.0	78.7	138.7#
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

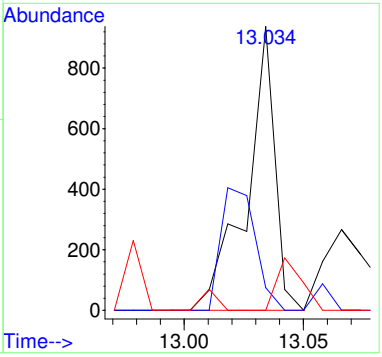


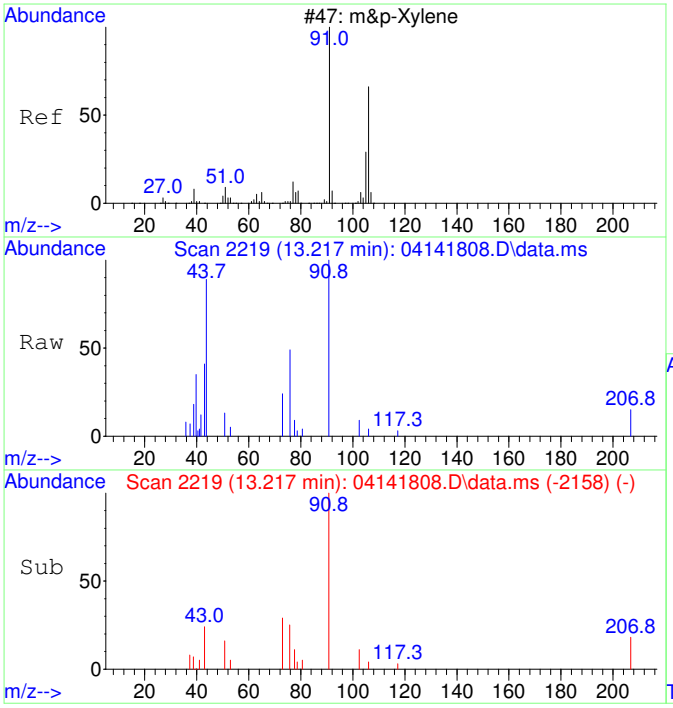


#42
Ethylbenzene SCAN
Concen: 41.18 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 773

Ion	Ratio	Lower	Upper
91	100		
106	0.0	1.8	61.8#
51	16.3	0.0	45.4

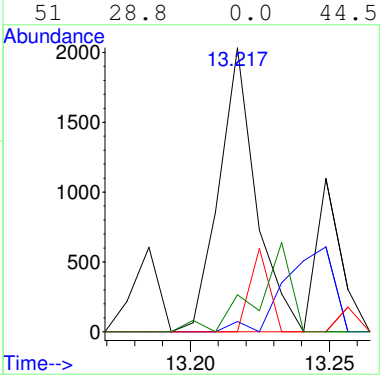


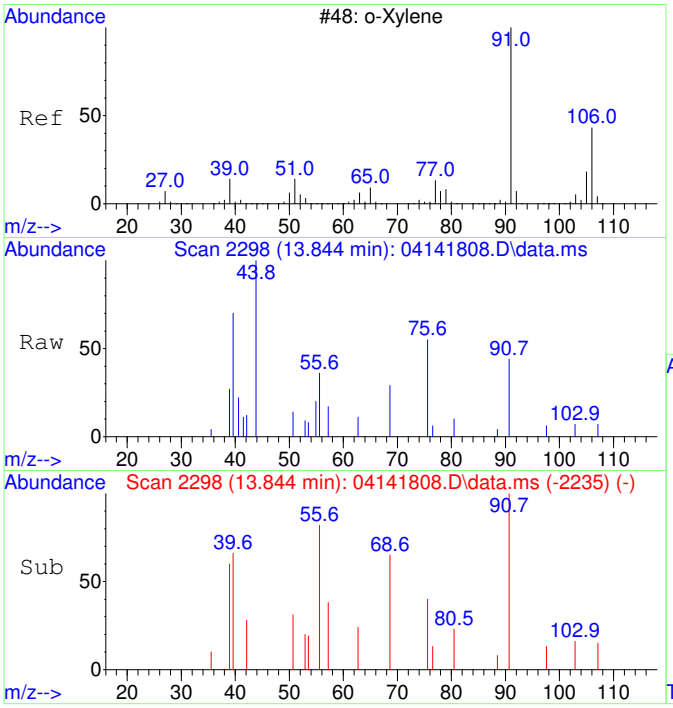


#43
m&p-Xylene SCAN
Concen: 59.97 ug/L
RT: 13.217 min Scan# 2219
Delta R.T. -0.016 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1884

Ion	Ratio	Lower	Upper
91	100		
106	0.0	14.6	74.6#
105	15.1	0.0	52.8
51	28.8	0.0	44.5

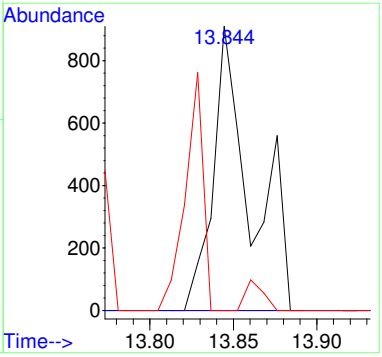


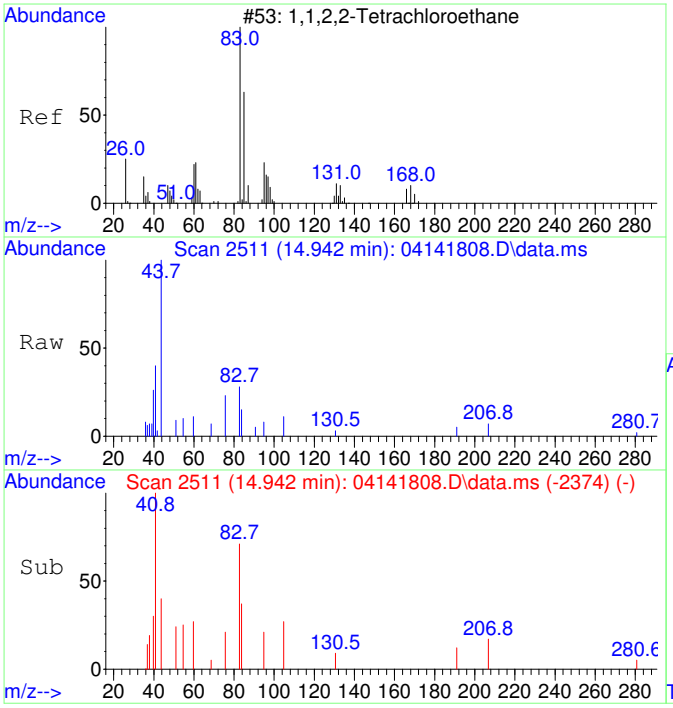


#44
o-Xylene SCAN
Concen: 80.47 ug/L
RT: 13.844 min Scan# 2298
Delta R.T. -0.000 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 91 Resp: 1421

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	5.1	0.0	54.9

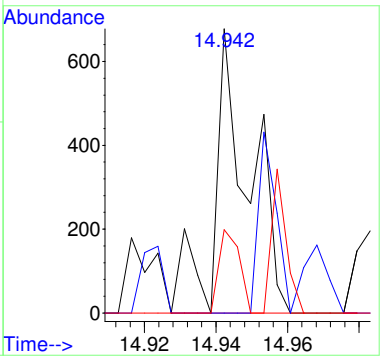


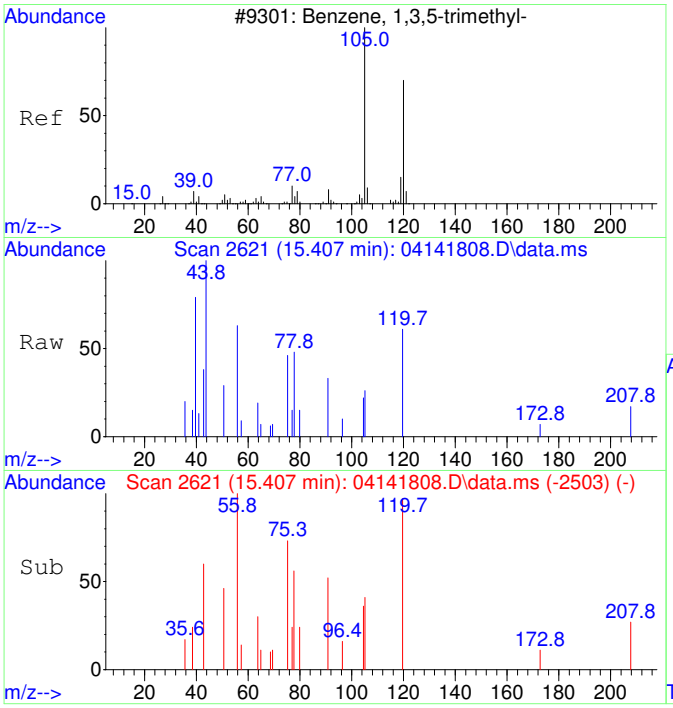


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 39120.22 ug/L
RT: 14.942 min Scan# 2511
Delta R.T. 0.007 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 83 Resp: 462

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.4	92.4#
95	17.1	0.0	41.2

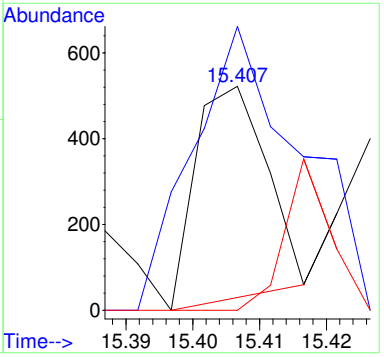


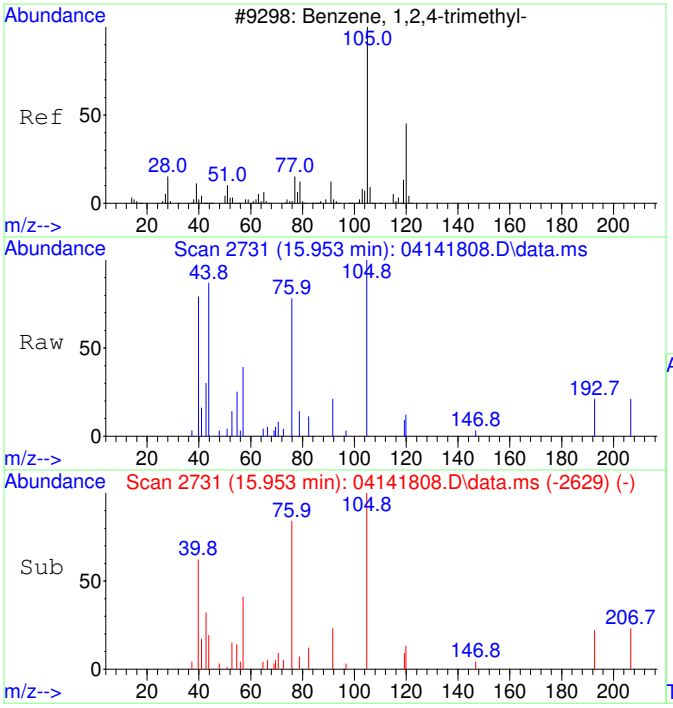


#46
1,3,5-Trimethylbenzene SCAN
Concen: 24.81 ug/L
RT: 15.407 min Scan# 2621
Delta R.T. -0.005 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:105 Resp: 375

Ion	Ratio	Lower	Upper
105	100		
120	198.7	16.1	76.1#
119	44.0	0.0	41.8#

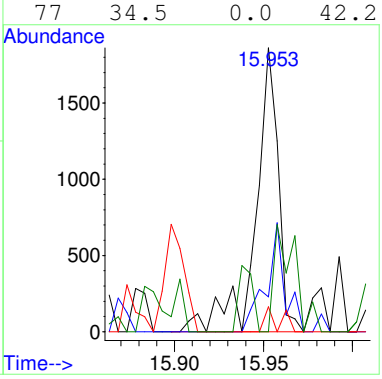


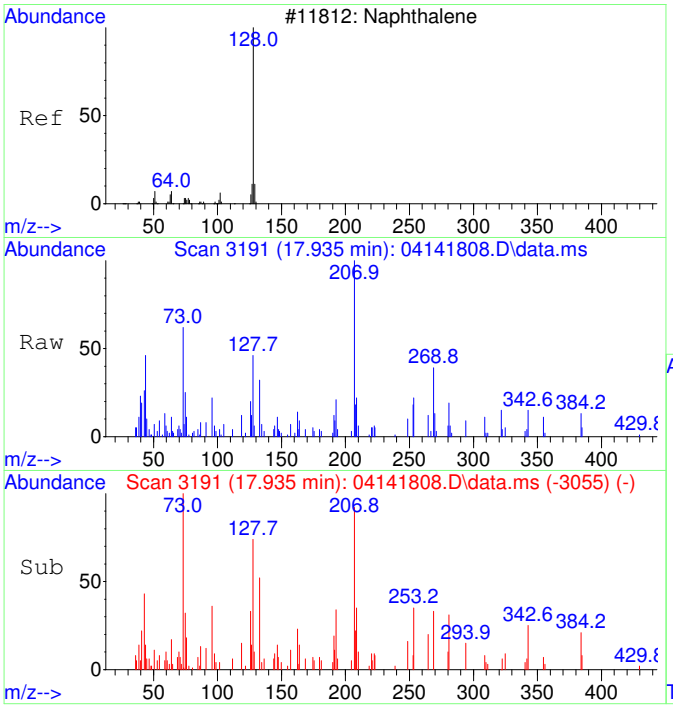


#47
1,2,4-Trimethylbenzene SCAN
Concen: 107.30 ug/L
RT: 15.953 min Scan# 2731
Delta R.T. 0.005 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:105 Resp: 1651

Ion	Ratio	Lower	Upper
105	100		
120	31.4	12.8	72.8
119	5.5	0.0	42.5
77	34.5	0.0	42.2

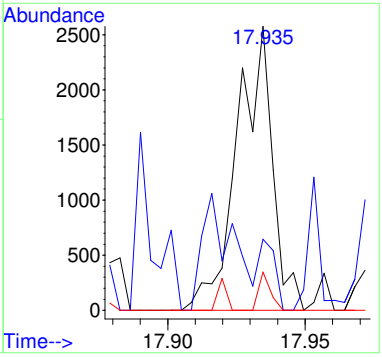


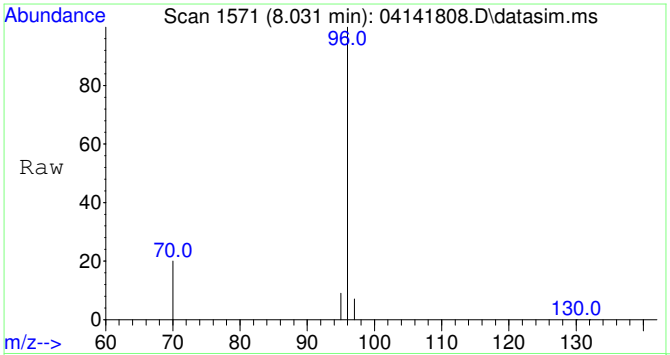


#48
Naphthalene SCAN
Concen: 108.26 ug/L
RT: 17.935 min Scan# 3191
Delta R.T. 0.004 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion:128 Resp: 2314

Ion	Ratio	Lower	Upper
128	100		
127	8.3	0.0	45.2
129	4.5	0.0	42.0

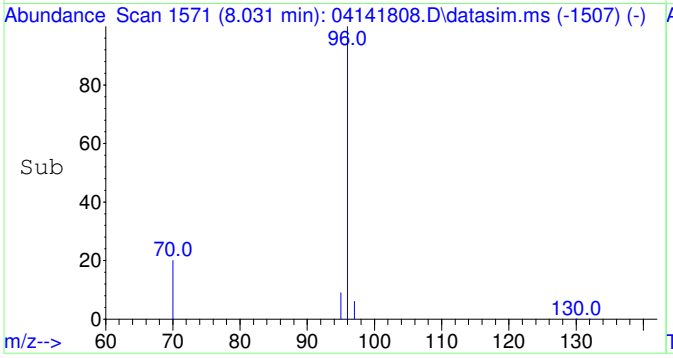


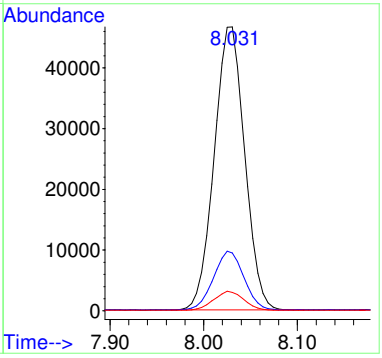


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.031 min Scan# 1571
Delta R.T. 0.005 min
Lab File: 04141808.D
Acq: 14 Apr 2018 13:38

Tgt Ion: 96 Resp: 104972

Ion	Ratio	Lower	Upper
96	100		
70	20.5	0.0	50.7
97	6.6	0.0	36.7





S18D063-SCV1

SCV REPORT

Instrument Name: AG5975C
Sample Name: S18D063-SCV1
Misc Info: 1745051 5 mg/L
Date Acquired: 4/14/2018
QLast Update: Mon Apr 16 09:30:40 2018
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	11.033	5000	5000.00	100%	70	130	pass
2)	1,1-Dichloroethene	3.097	5000	5473.30	109%	70	130	pass
3)	trans-1,2-Dichloroethene	4.303	5000	5814.98	116%	70	130	pass
4)	1,1-Dichloroethane	5.066	5000	5496.21	110%	70	130	pass
5)	cis-1,2-Dichloroethene	6.101	5000	5666.73	113%	70	130	pass
6)	Chloroform	6.676	5000	5254.67	105%	70	130	pass
7)	1,1,1-Trichloroethane	6.932	5000	5393.29	108%	70	130	pass
8)	Carbon tetrachloride	7.211	5000	5273.37	105%	70	130	pass
9)	Benzene	7.540	5000	5355.68	107%	70	130	pass
10)	1,2-Dichloroethane	7.588	5000	5423.70	108%	70	130	pass
11)	Trichloroethene	8.619	5000	5162.67	103%	70	130	pass
12)	Toluene-d8	10.540	5000	5049.45	101%	70	130	pass
13)	Toluene	10.634	5000	4685.17	94%	70	130	pass
14)	1,1,2-Trichloroethane	11.296	5000	4771.32	95%	70	130	pass
15)	Tetrachloroethene	11.495	5000	4784.67	96%	70	130	pass
16)	Chlorobenzene	12.829	5000	4702.21	94%	70	130	pass
17)	1,1,1,2-Tetrachloroethane	12.980	5000	4875.23	98%	70	130	pass
18)	Ethylbenzene	13.036	5000	4829.49	97%	70	130	pass
19)	m&p-Xylene	13.226	10000	9529.34	95%	70	130	pass
20)	o-Xylene	13.846	5000	4848.66	97%	70	130	pass
21)	1,1,2,2-Tetrachloroethane	14.944	5000	4566.99	91%	70	130	pass
22)	1,3,5-Trimethylbenzene	15.408	5000	4613.08	92%	70	130	pass
23)	1,2,4-Trimethylbenzene	15.949	5000	4532.74	91%	70	130	pass
24)	Naphthalene	17.932	5000	4346.24	87%	70	130	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141809.D
Acq On : 14 Apr 2018 14:02
InstName : AG5975C
Operator : RH
Sample : S18D063-SCV1
Misc : 1745051 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 16 09:31:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

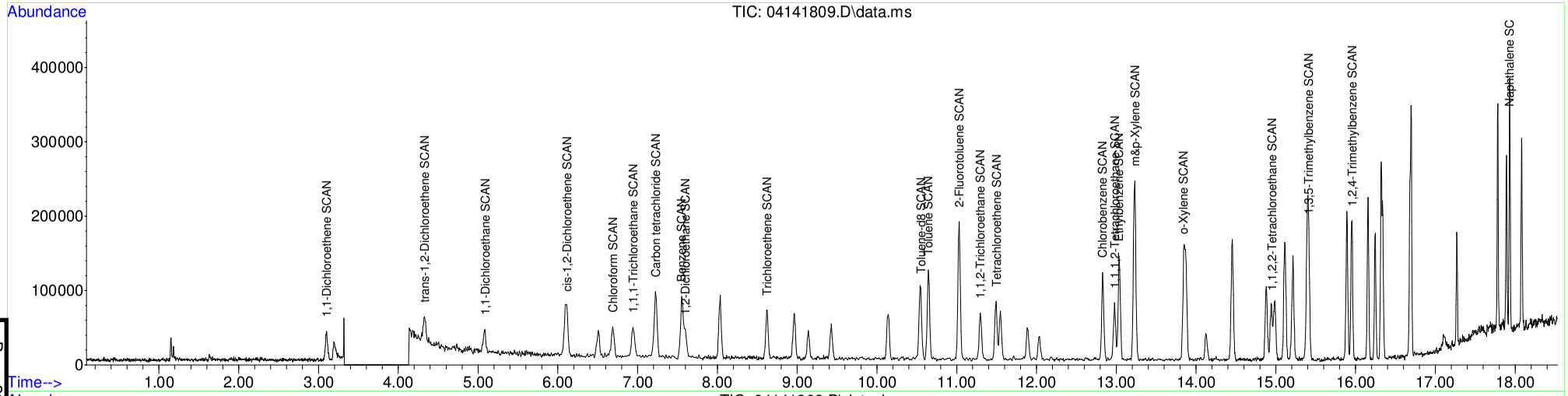
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	185572	5000.00 ug/L	0.00
49) Fluorobenzene	8.031	96	151656	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	157279	5049.45 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.99%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	44921	5514.67 ug/L	99
3] trans-1,2-Dichloroethene	4.323	61	48400	5814.98 ug/L	100
4] 1,1-Dichloroethane	5.079	63	60911	5496.21 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	58100	5666.73 ug/L	100
6] Chloroform	6.688	83	63361	5254.67 ug/L	99
7] 1,1,1-Trichloroethane	6.944	97	63501	5393.29 ug/L	100
8] Carbon tetrachloride	7.211	117	56645	5273.37 ug/L	98
9] Benzene	7.552	78	159202	5355.68 ug/L	100
10] 1,2-Dichloroethane	7.588	62	56215	5423.70 ug/L	99
11] Trichloroethene	8.619	130	42284	5162.67 ug/L	100
13] Toluene	10.634	91	183676	4685.17 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	41328	4771.32 ug/L	100
15] Tetrachloroethene	11.495	166	51413	4784.67 ug/L	100
16] Chlorobenzene	12.829	112	129899	4702.21 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	44835	4875.23 ug/L	99
18] Ethylbenzene	13.036	91	214930	4829.49 ug/L	100
19] m&p-Xylene	13.226	91	331842	9529.34 ug/L	100
20] o-Xylene	13.846	91	177919	4848.66 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.944	83	77783	4566.99 ug/L	100
22] 1,3,5-Trimethylbenzene	15.409	105	198123	4613.08 ug/L	100
23] 1,2,4-Trimethylbenzene	15.950	105	198024	4532.74 ug/L	100
24] Naphthalene	17.932	128	328706	4346.24 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	99886	5570.54 ug/L	94
26) 1,1-Dichloroethene SCAN	3.100	61	26054	6555.98 ug/L	87
27) trans-1,2-Dichloroethe...	4.328	61	25160	6461.42 ug/L	81
28) 1,1-Dichloroethane SCAN	5.085	63	35334	5930.41 ug/L	95
29) cis-1,2-Dichloroethene...	6.113	61	33275	7114.71 ug/L	87
30) Chloroform SCAN	6.687	83	37111	6576.53 ug/L	87
31) 1,1,1-Trichloroethane ...	6.943	97	29359	4146.00 ug/L	76
32) Carbon tetrachloride SCAN	7.222	117	27661	5430.92 ug/L	84
33) Benzene SCAN	7.551	78	87417	5662.12 ug/L	86
34) 1,2-Dichloroethane SCAN	7.599	62	35556	6073.67 ug/L	96
35) Trichloroethene SCAN	8.617	130	21594	5566.94 ug/L	97
36) Toluene-d8 SCAN	10.549	98	77424	4917.81 ug/L	98
37) Toluene SCAN	10.644	91	98546	5596.82 ug/L	90
38) 1,1,2-Trichloroethane ...	11.294	97	21817	4045.97 ug/L	81
39) Tetrachloroethene SCAN	11.494	166	26072	4540.51 ug/L	94
40) Chlorobenzene SCAN	12.828	112	61991	4480.11 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.979	131	20700	4601.64 ug/L	95
42) Ethylbenzene SCAN	13.034	91	107495	4657.50 ug/L	97
43) m&p-Xylene SCAN	13.233	91	170448	4538.00 ug/L	94
44) o-Xylene SCAN	13.845	91	90273	4438.57 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.946	83	41748	3921.65 ug/L	96
46) 1,3,5-Trimethylbenzene...	15.413	105	98297	4204.93 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.954	105	96950	4114.40 ug/L	97
48) Naphthalene SCAN	17.931	128	143705	3785.10 ug/L	98

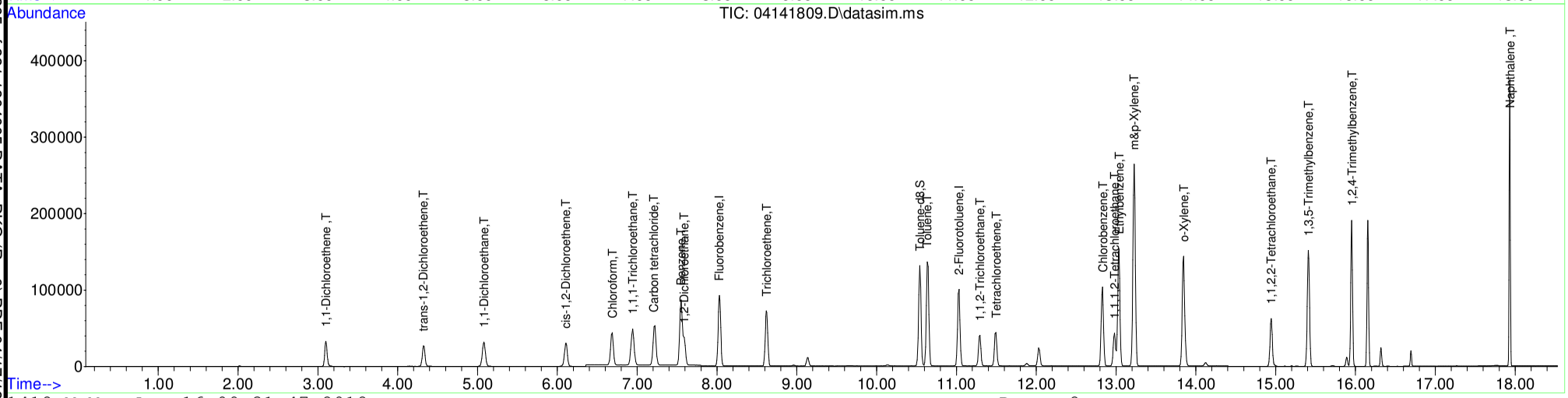
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141809.D
Acq On : 14 Apr 2018 14:02
InstName : AG5975C
Operator : RH
Sample : S18D063-SCV1
Misc : 1745051 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 16 09:31:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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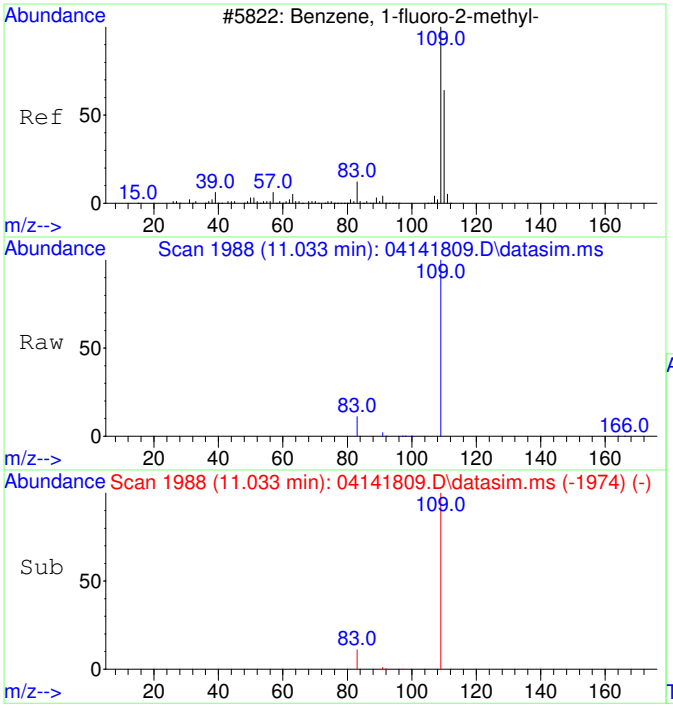
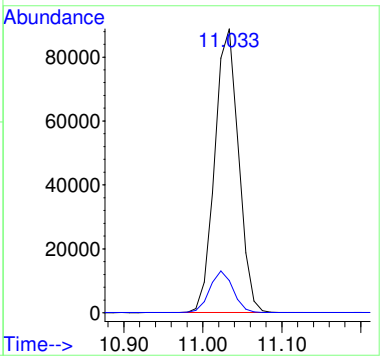
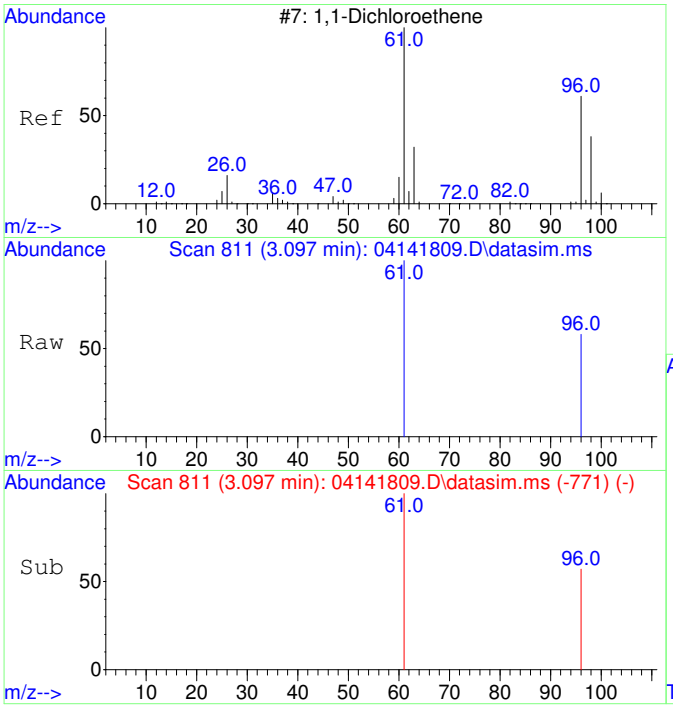


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:109 Resp: 185572

Ion	Ratio	Lower	Upper
109	100		
83	14.3	0.0	44.4

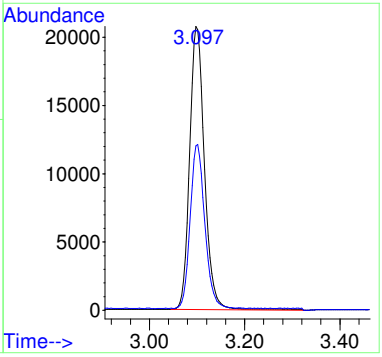




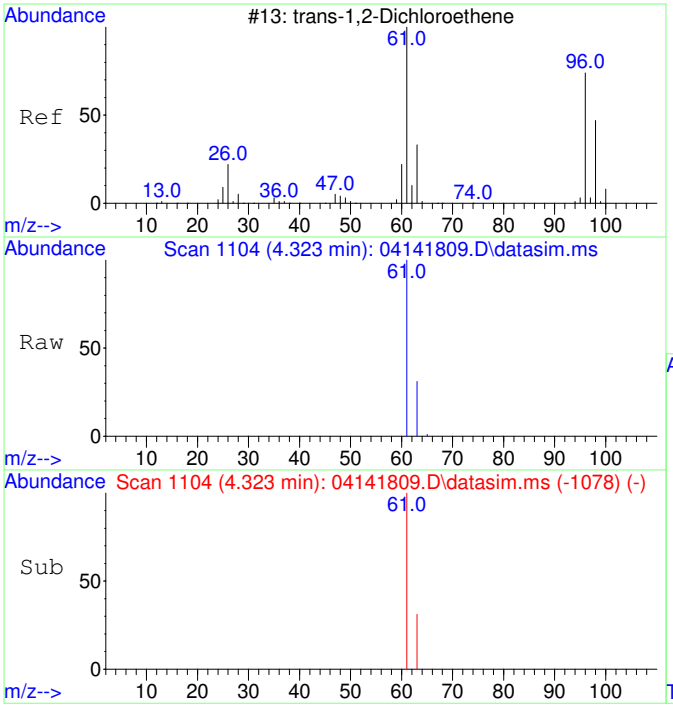
#2
1,1-Dichloroethene
Concen: 5514.67 ug/L
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 44921

Ion	Ratio	Lower	Upper
61	100		
96	56.6	26.1	86.1



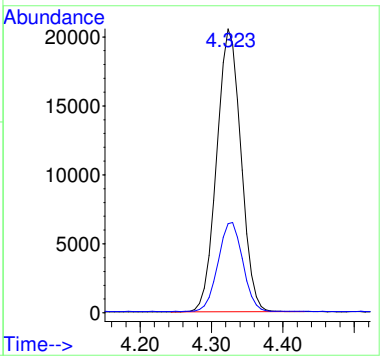
Before MI:
IMPROPER
BASELINE

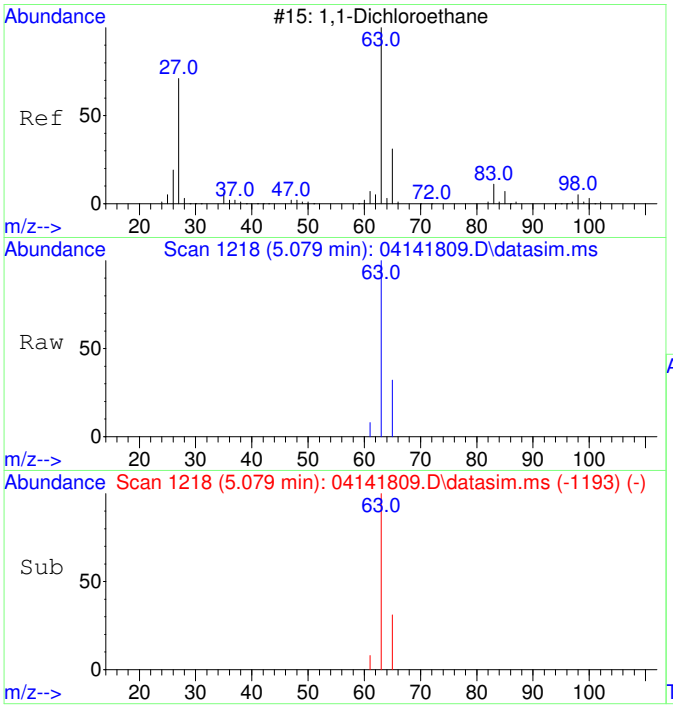


#3
trans-1,2-Dichloroethene
Concen: 5814.98 ug/L
RT: 4.323 min Scan# 1104
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 48400

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

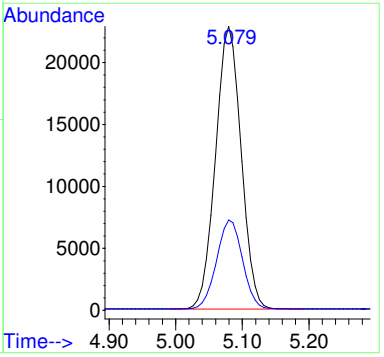


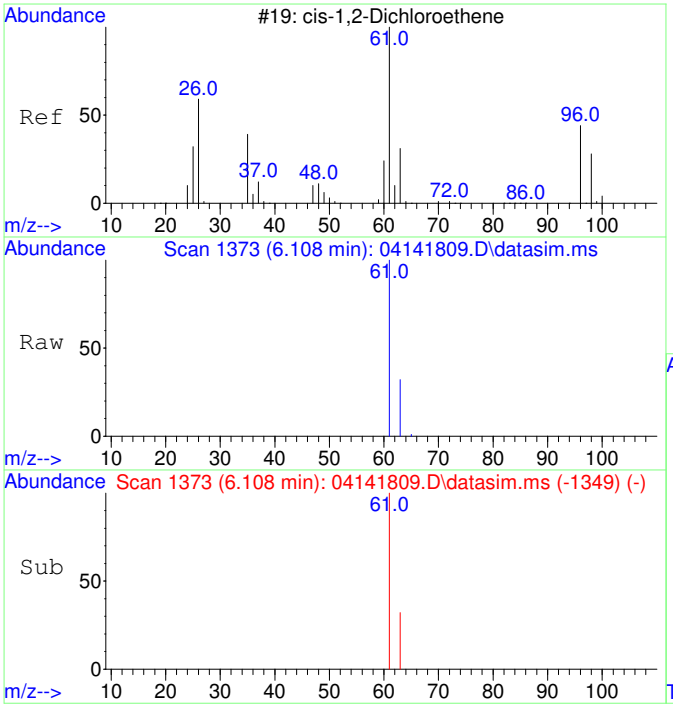


#4
1,1-Dichloroethane
Concen: 5496.21 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 63 Resp: 60911

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.8	61.8

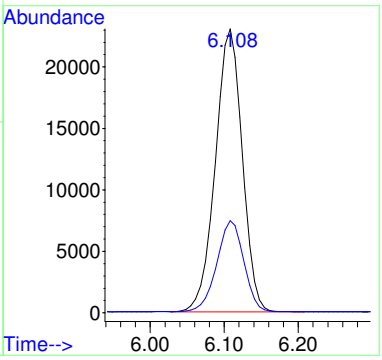


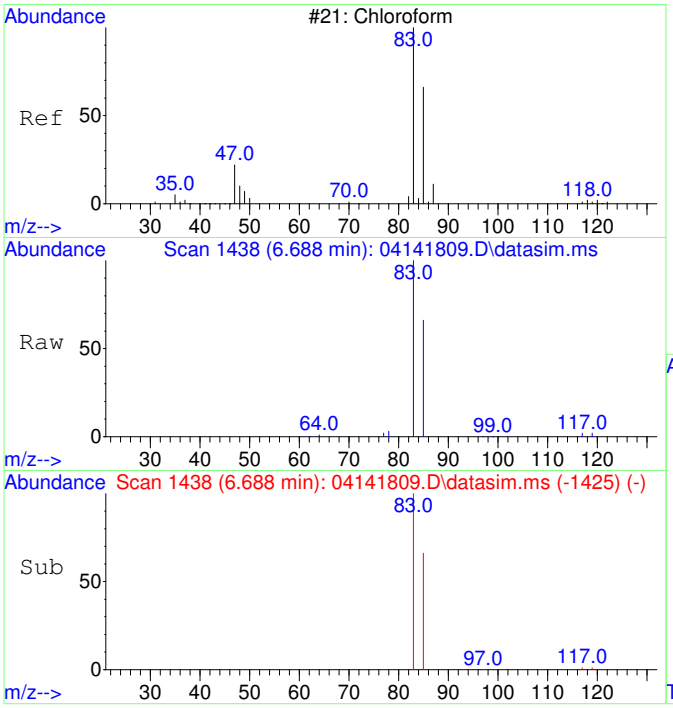


#5
cis-1,2-Dichloroethene
Concen: 5666.73 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.007 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 58100

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.0	62.0

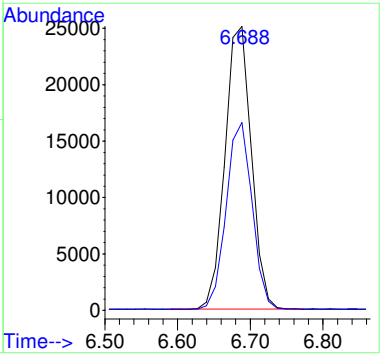


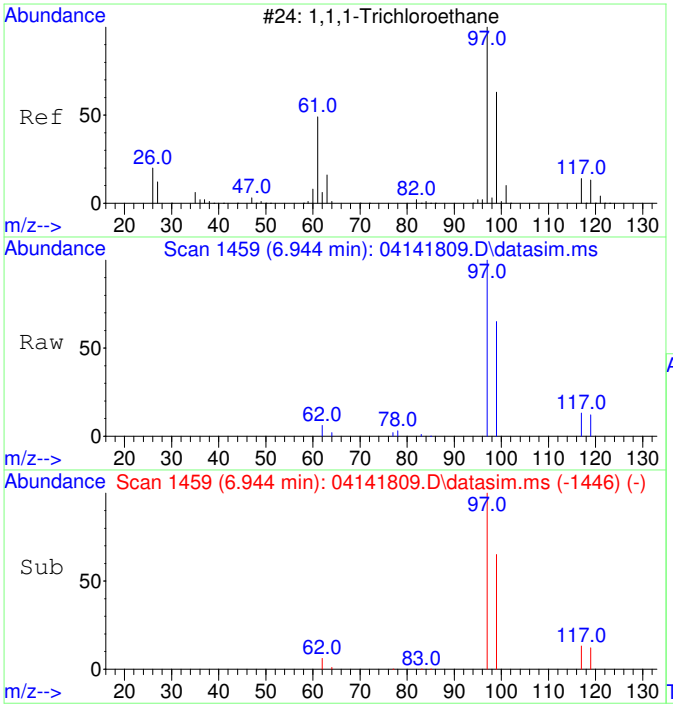


#6
Chloroform
Concen: 5254.67 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 63361

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.2	94.2

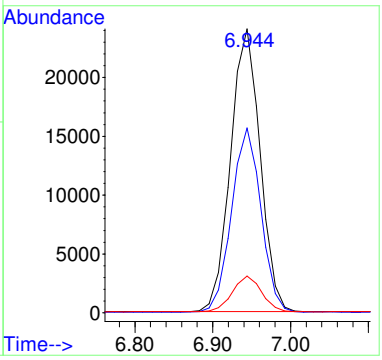


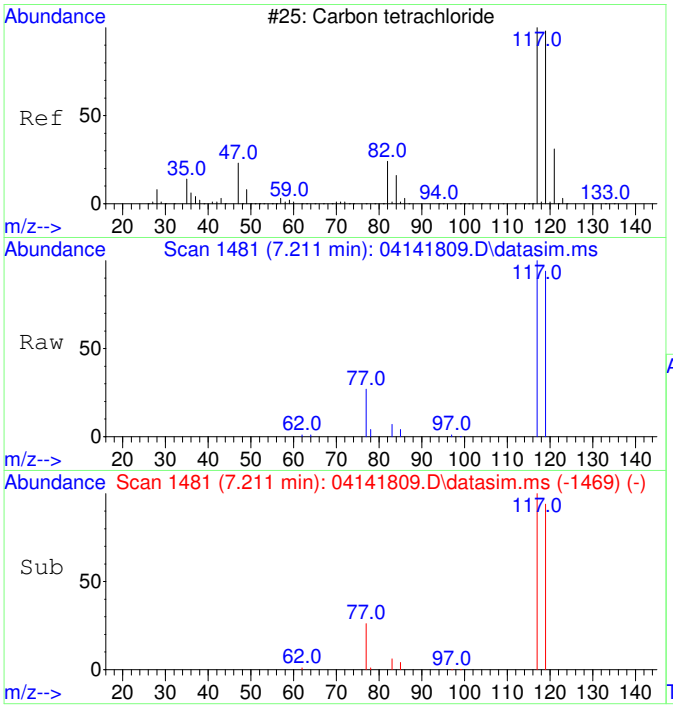


#7
1,1,1-Trichloroethane
Concen: 5393.29 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 63501

Ion	Ratio	Lower	Upper
97	100		
99	64.6	34.5	94.5
117	12.4	0.0	42.6

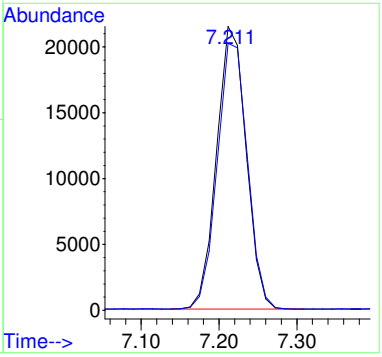


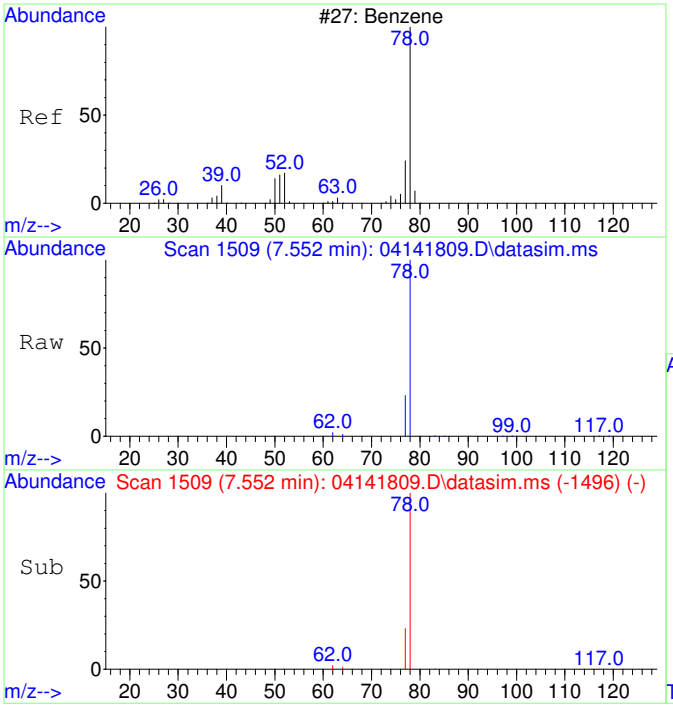


#8
Carbon tetrachloride
Concen: 5273.37 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:117 Resp: 56645

Ion	Ratio	Lower	Upper
117	100		
119	96.1	64.5	124.5

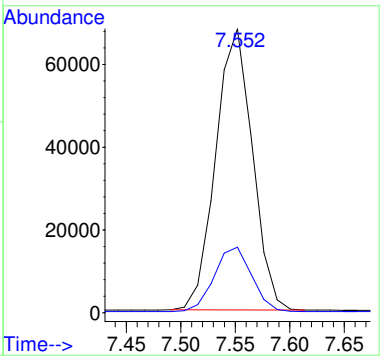


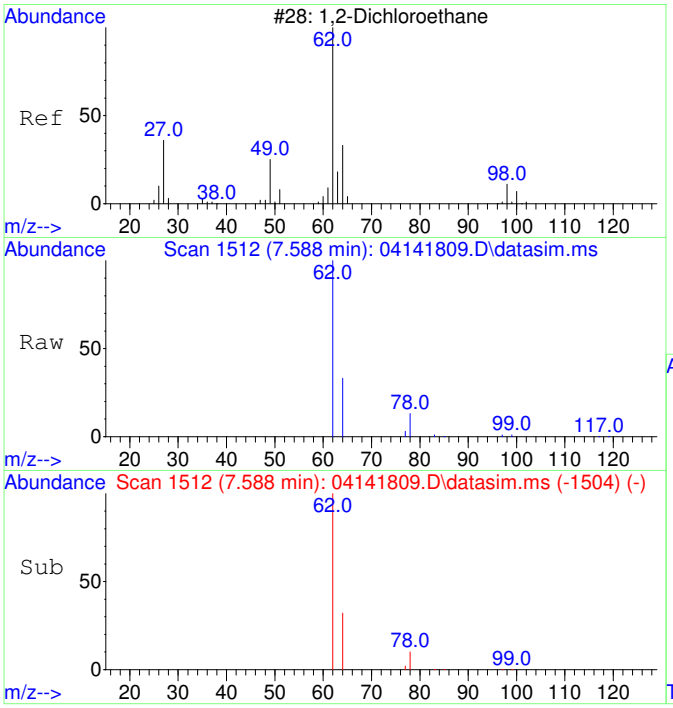


#9
Benzene
Concen: 5355.68 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 78 Resp: 159202

Ion	Ratio	Lower	Upper
78	100		
77	23.4	0.0	53.6

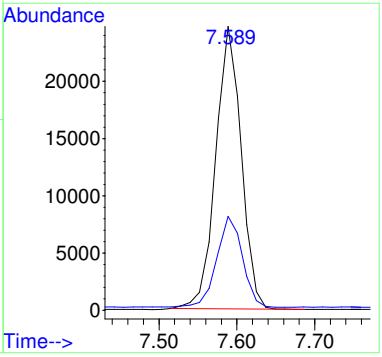


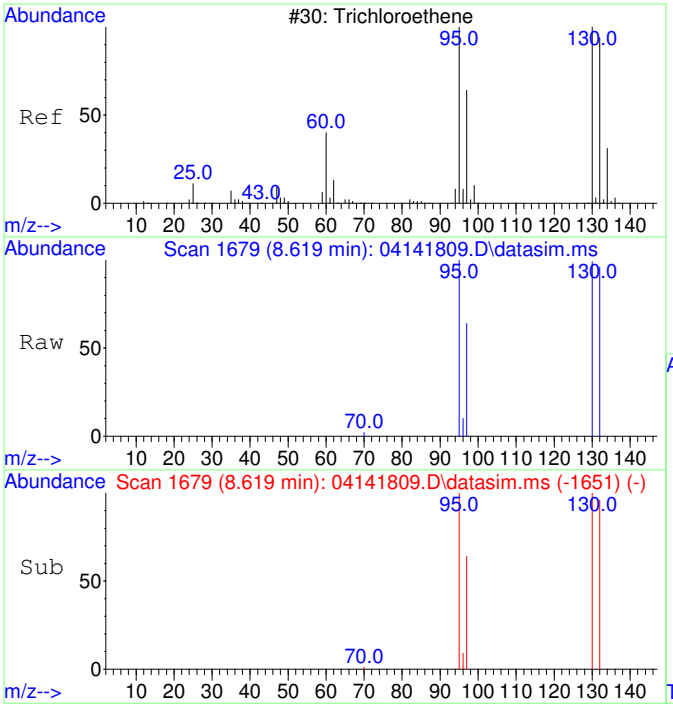


#10
1,2-Dichloroethane
Concen: 5423.70 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 62 Resp: 56215

Ion	Ratio	Lower	Upper
62	100		
64	32.2	1.8	61.8

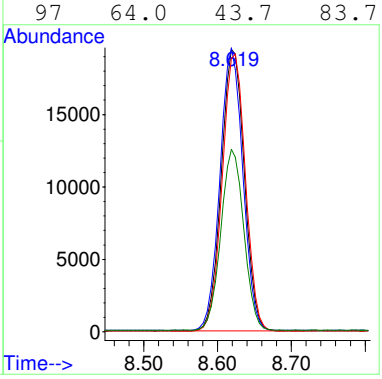


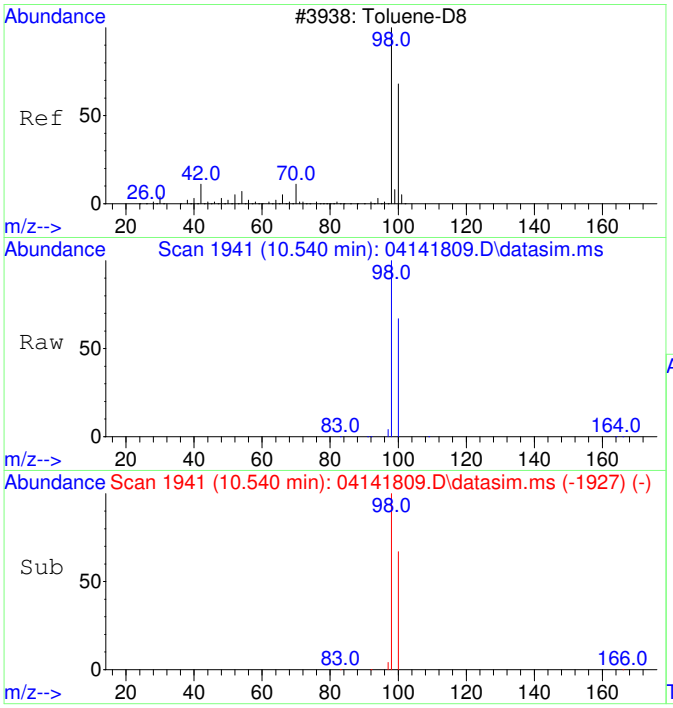


#11
Trichloroethene
Concen: 5162.67 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:130 Resp: 42284

Ion	Ratio	Lower	Upper
130	100		
95	99.2	68.8	128.8
132	98.6	78.6	118.6
97	64.0	43.7	83.7

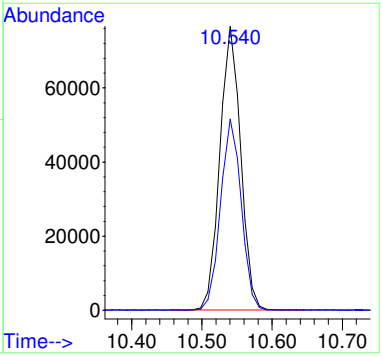


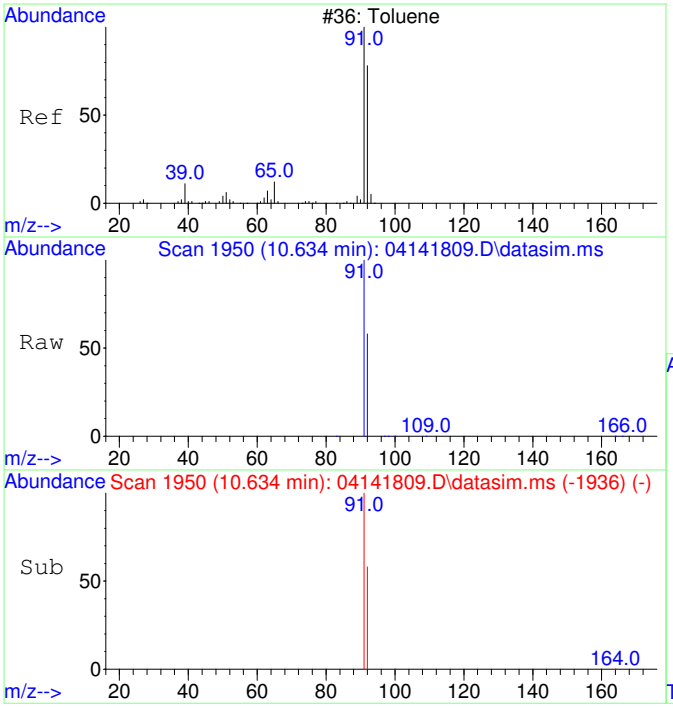


#12
Toluene-d8
Concen: 5049.45 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 98 Resp: 157279

Ion	Ratio	Lower	Upper
98	100		
100	67.0	36.9	96.9

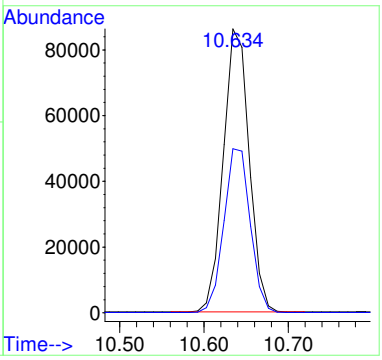


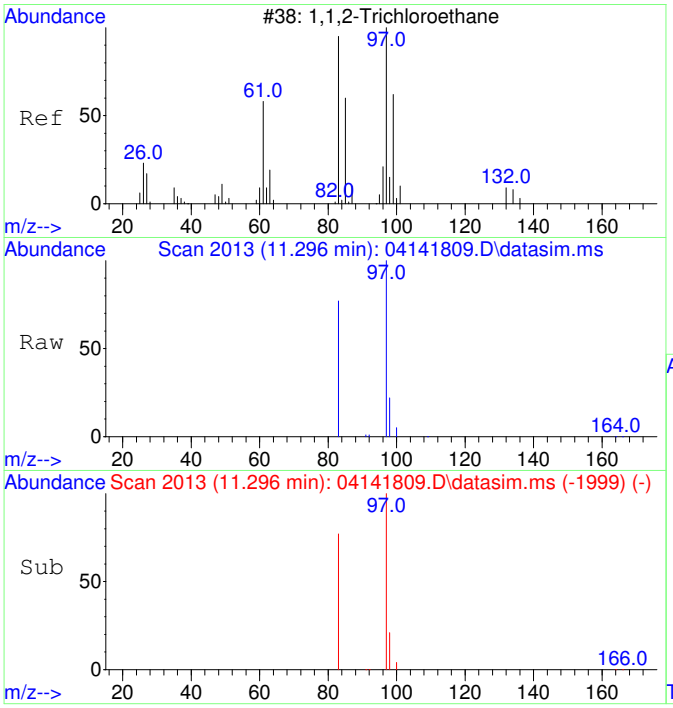


#13
Toluene
Concen: 4685.17 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 183676

Ion	Ratio	Lower	Upper
91	100		
92	59.1	28.8	88.8

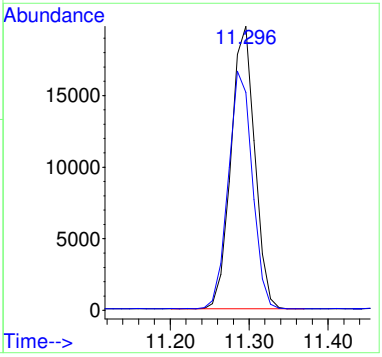


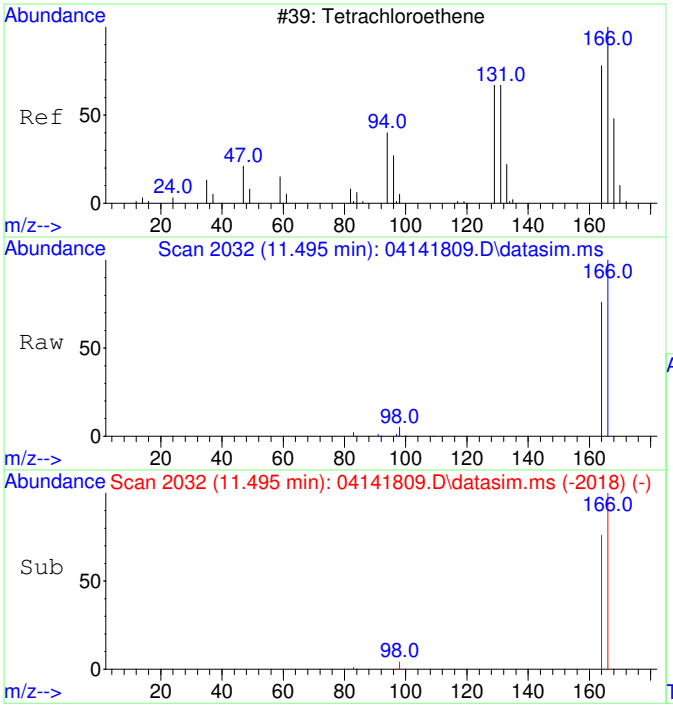


#14
1,1,2-Trichloroethane
Concen: 4771.32 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 41328

Ion	Ratio	Lower	Upper
97	100		
83	84.6	54.3	114.3

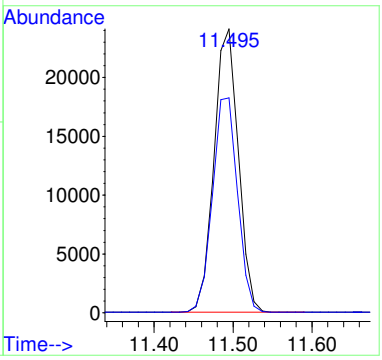


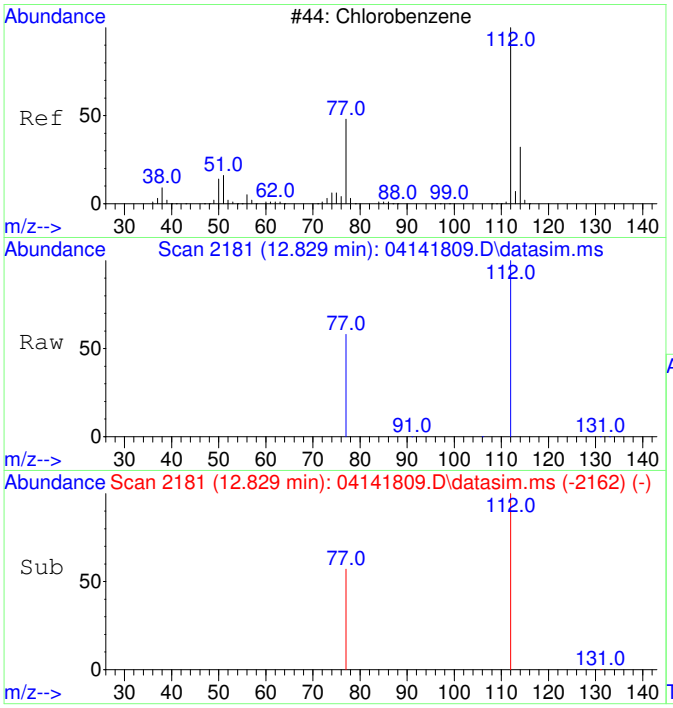


#15
Tetrachloroethene
Concen: 4784.67 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:166 Resp: 51413

Ion	Ratio	Lower	Upper
166	100		
164	78.1	48.0	108.0

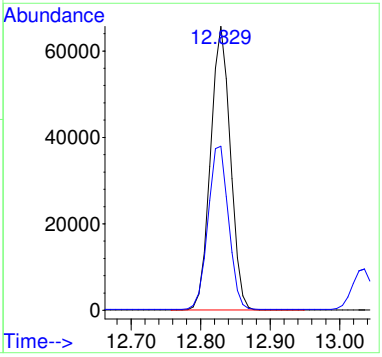


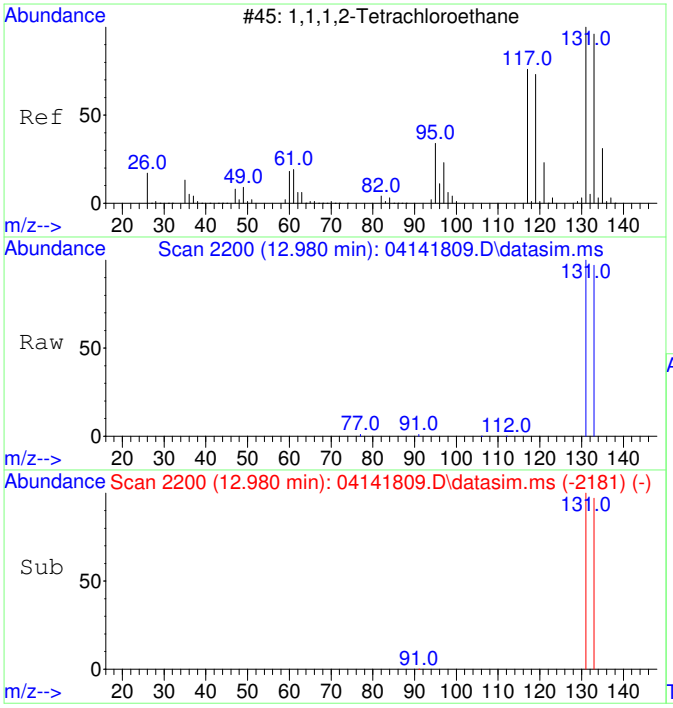


#16
Chlorobenzene
Concen: 4702.21 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:112 Resp: 129899

Ion	Ratio	Lower	Upper
112	100		
77	59.4	29.4	89.4

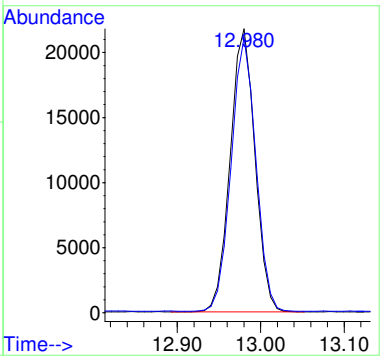


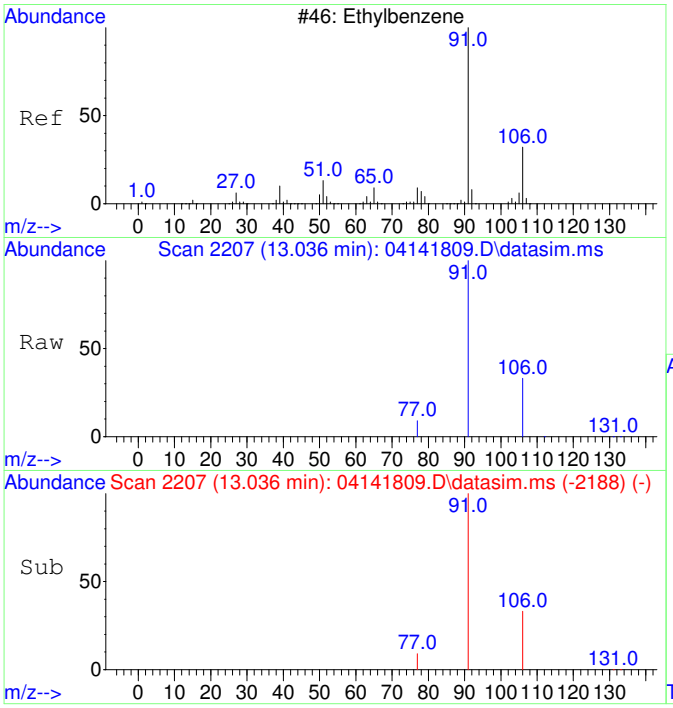


#17
1,1,1,2-Tetrachloroethane
Concen: 4875.23 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:131 Resp: 44835

Ion	Ratio	Lower	Upper
131	100		
133	96.1	65.1	125.1

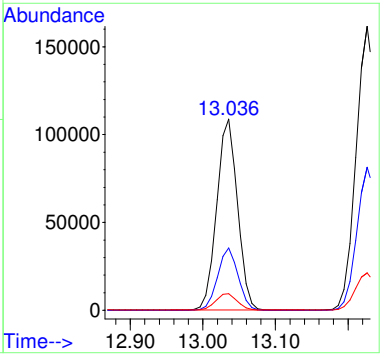


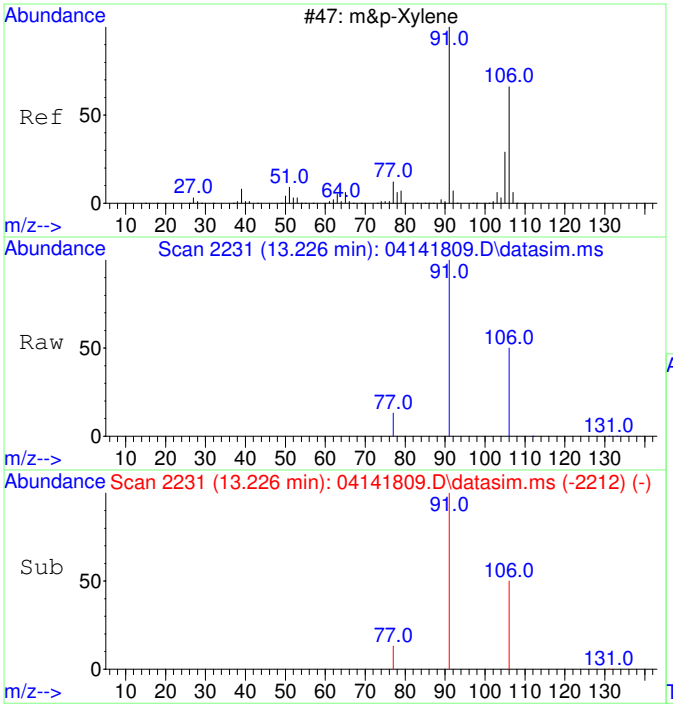


#18
Ethylbenzene
Concen: 4829.49 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 214930

Ion	Ratio	Lower	Upper
91	100		
106	32.1	1.8	61.8
77	8.7	0.0	38.7

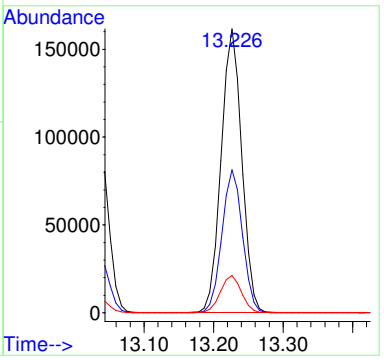


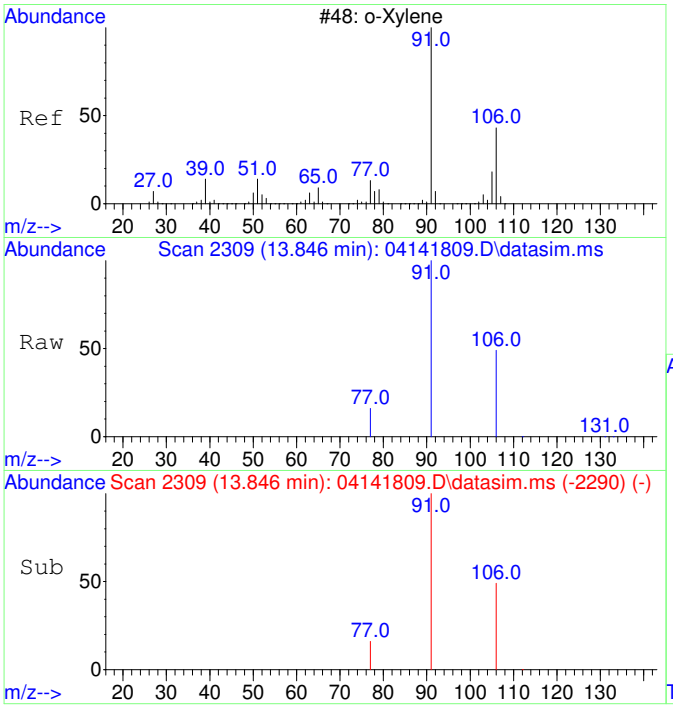


#19
m&p-Xylene
Concen: 9529.34 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 331842

Ion	Ratio	Lower	Upper
91	100		
106	50.2	20.0	80.0
77	13.2	0.0	43.4

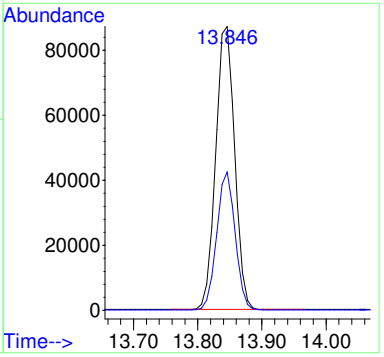


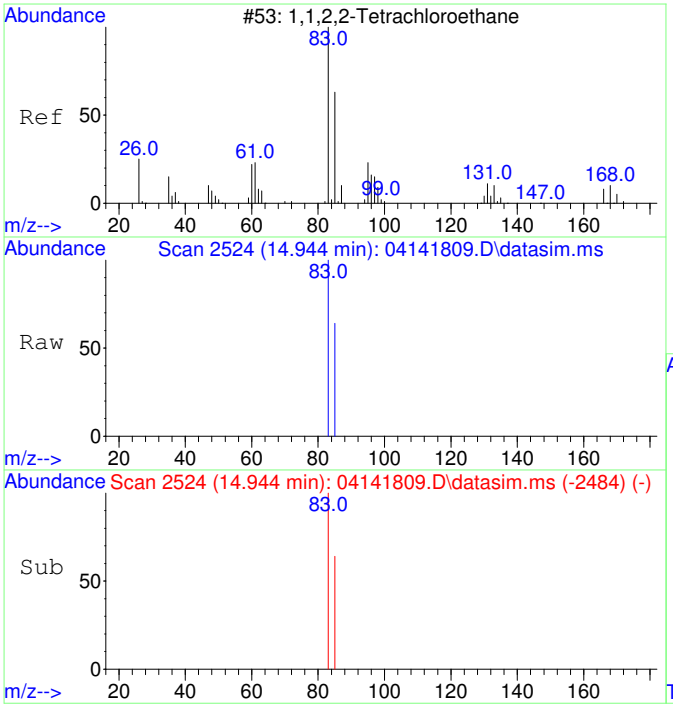


#20
o-Xylene
Concen: 4848.66 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 177919

Ion	Ratio	Lower	Upper
91	100		
106	47.4	16.9	76.9

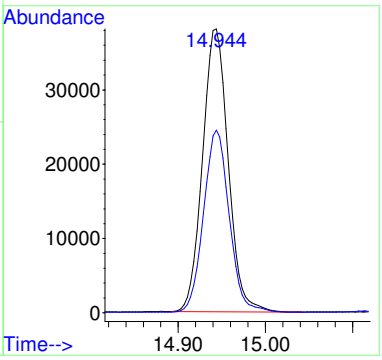


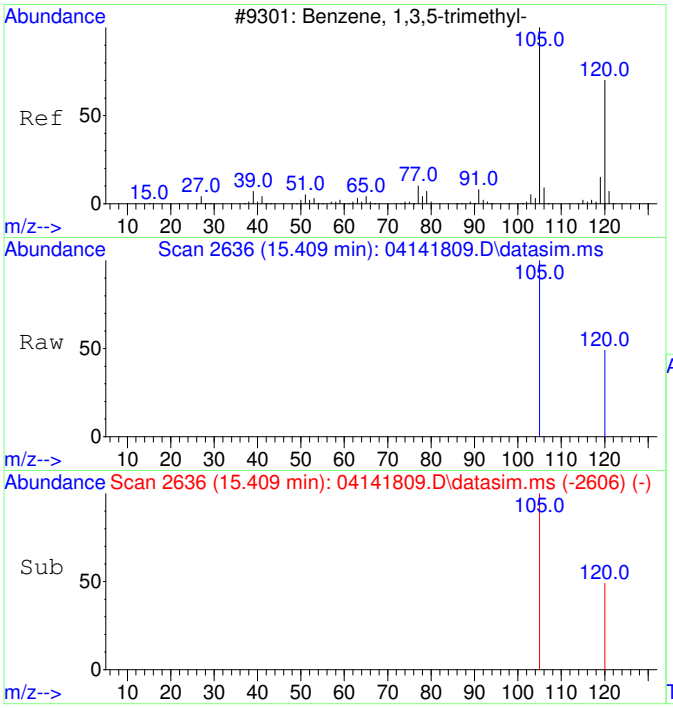


#21
1,1,2,2-Tetrachloroethane
Concen: 4566.99 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 77783

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.3	94.3

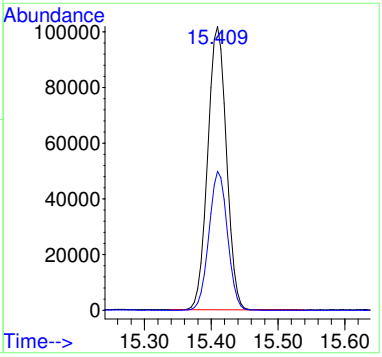


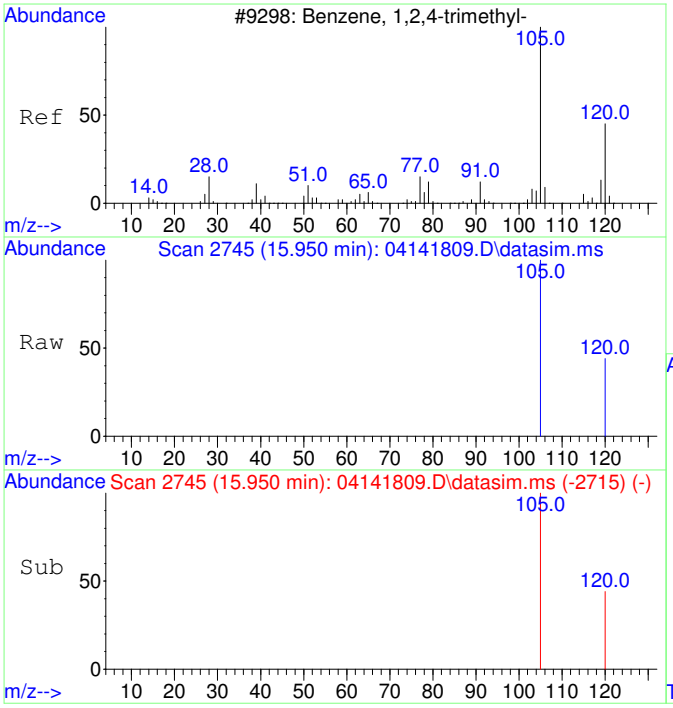


#22
1,3,5-Trimethylbenzene
Concen: 4613.08 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 198123

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.1	78.1

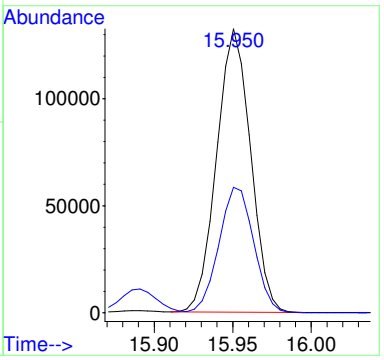


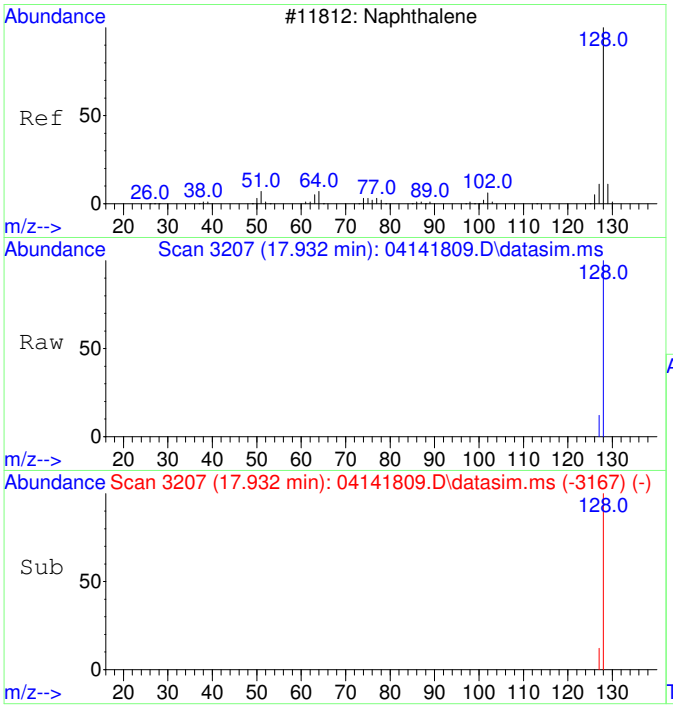


#23
1,2,4-Trimethylbenzene
Concen: 4532.74 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 198024

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.5	74.5

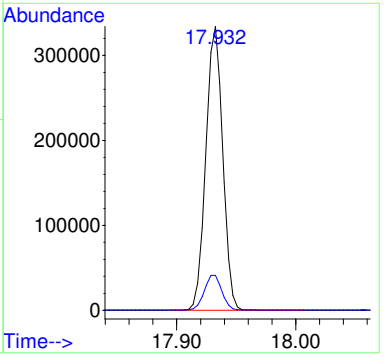


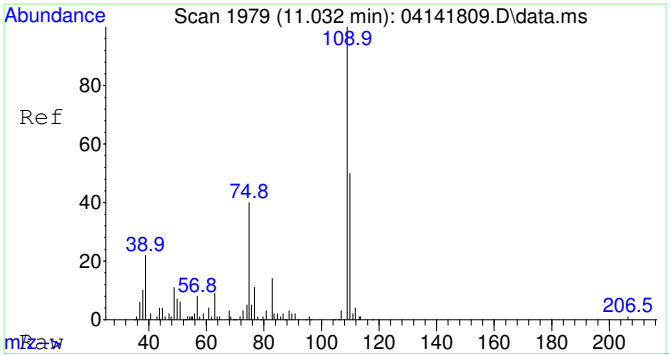


#24
Naphthalene
Concen: 4346.24 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:128 Resp: 328706

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.7

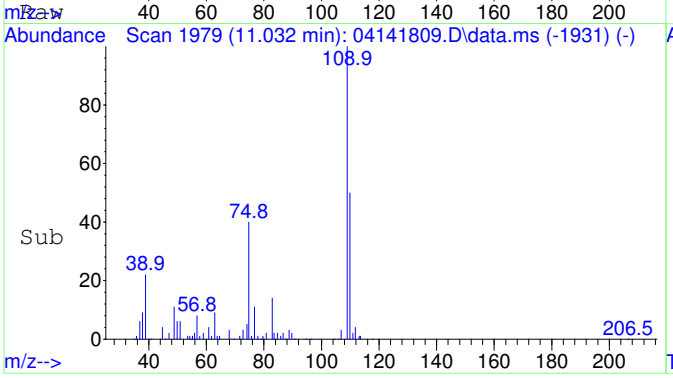


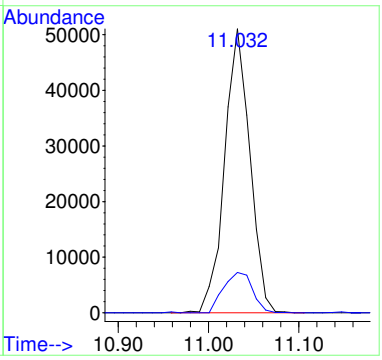


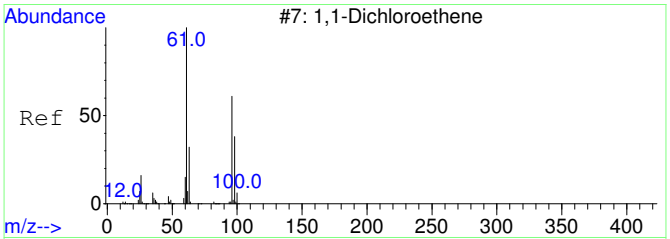
#25
2-Fluorotoluene SCAN
Concen: 5570.54 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

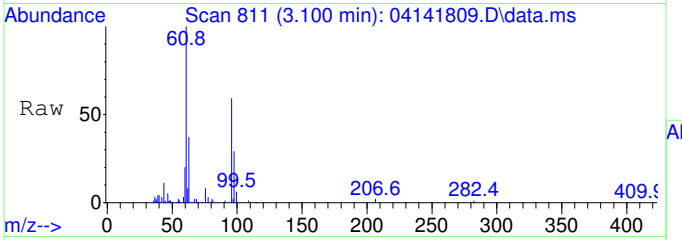
Tgt Ion:109 Resp: 99886

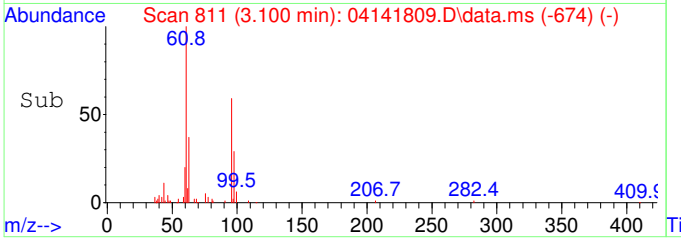
Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	49.2







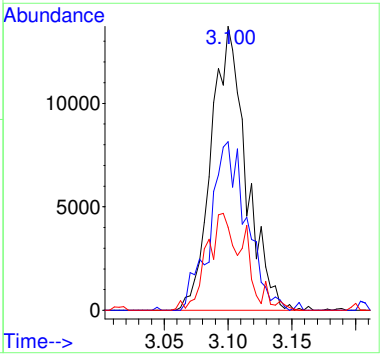


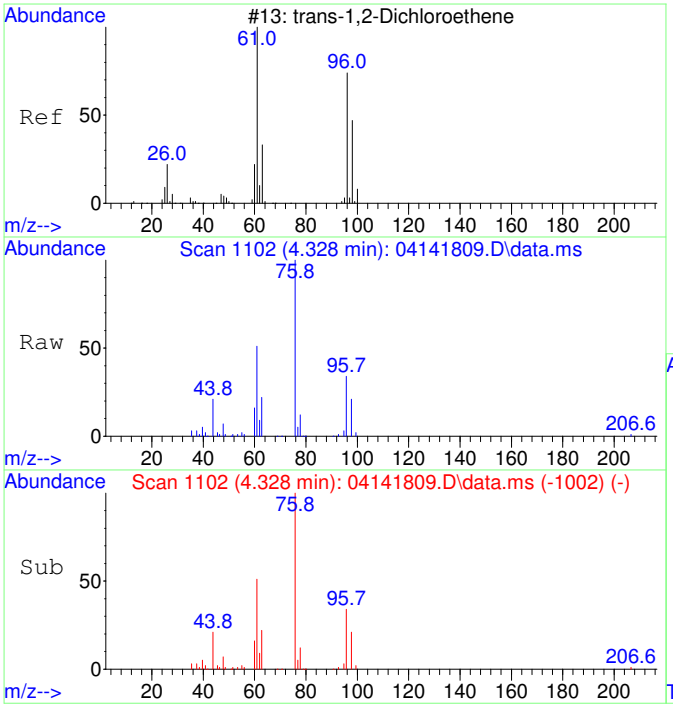


#26
1,1-Dichloroethene SCAN
Concen: 6555.98 ug/L
RT: 3.100 min Scan# 811
Delta R.T. 0.008 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 26054

Ion	Ratio	Lower	Upper
61	100		
96	62.1	21.6	81.6
98	31.9	7.5	67.5

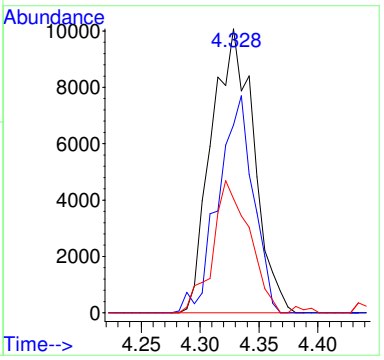


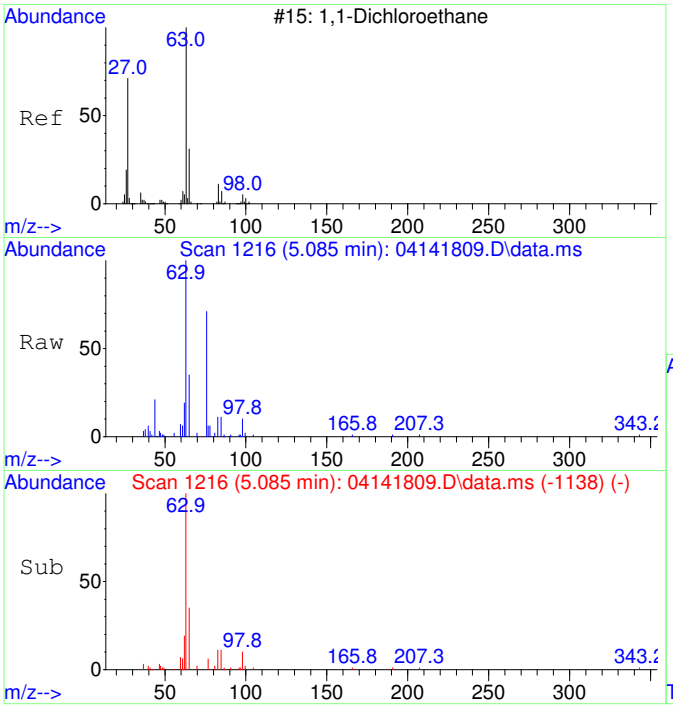


#27
trans-1,2-Dichloroethene SCAN
Concen: 6461.42 ug/L
RT: 4.328 min Scan# 1102
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 25160

Ion	Ratio	Lower	Upper
61	100		
96	63.4	51.8	111.8
98	40.3	22.7	82.7

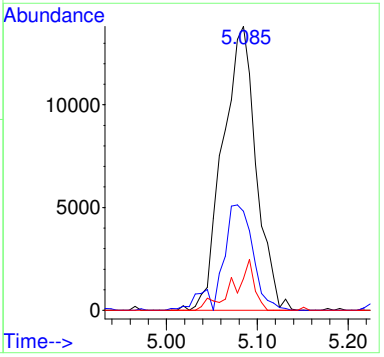


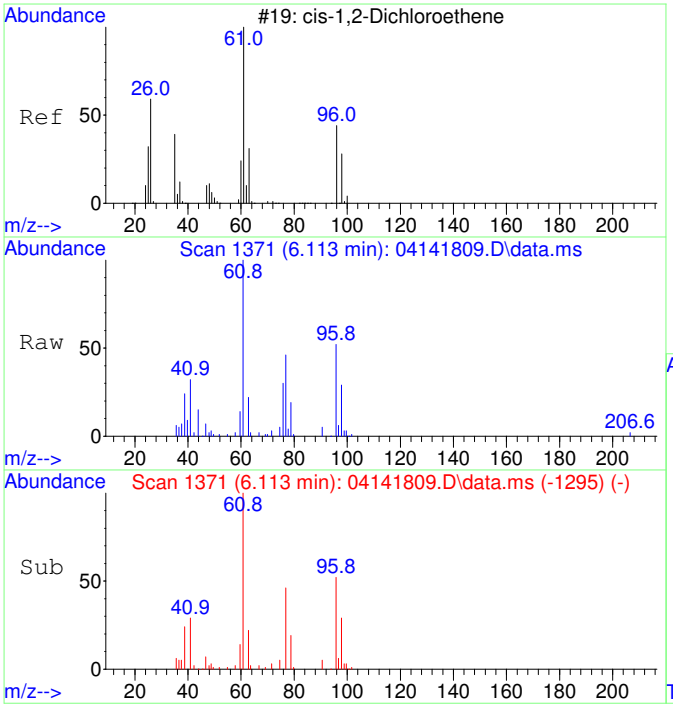


#28
1,1-Dichloroethane SCAN
Concen: 5930.41 ug/L
RT: 5.085 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 63 Resp: 35334

Ion	Ratio	Lower	Upper
63	100		
65	34.5	2.2	62.2
83	11.2	0.0	38.2

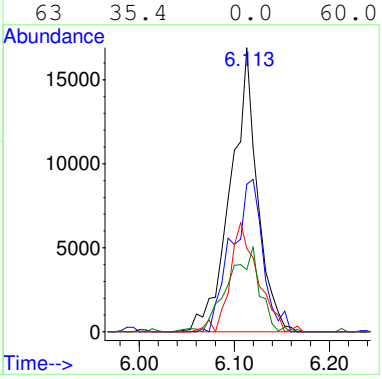


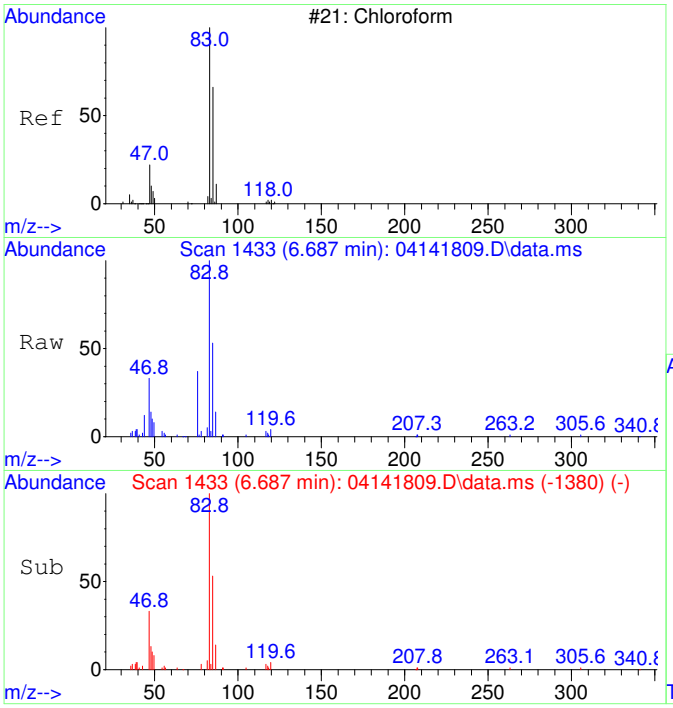


#29
cis-1,2-Dichloroethene SCAN
Concen: 7114.71 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.007 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 33275

Ion	Ratio	Lower	Upper
61	100		
96	62.1	49.4	109.4
98	37.4	9.5	69.5
63	35.4	0.0	60.0

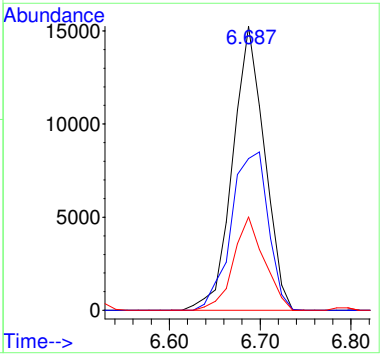


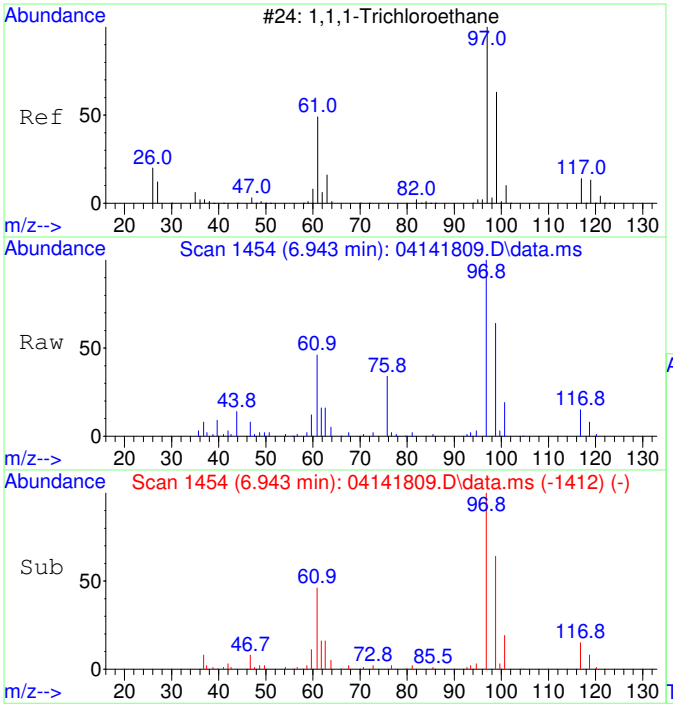


#30
Chloroform SCAN
Concen: 6576.53 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 37111

Ion	Ratio	Lower	Upper
83	100		
85	65.2	47.8	107.8
47	32.2	8.2	68.2

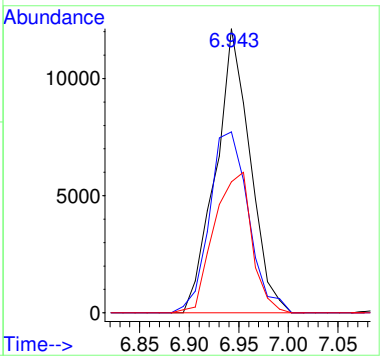


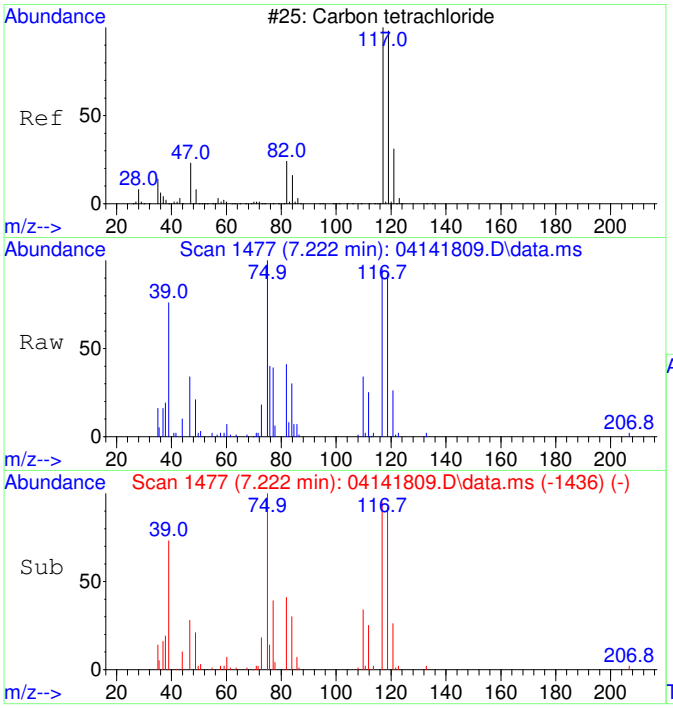


#31
1,1,1-Trichloroethane SCAN
Concen: 4146.00 ug/L
RT: 6.943 min Scan# 1454
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 29359

Ion	Ratio	Lower	Upper
97	100		
99	72.5	18.3	78.3
61	54.4	16.3	76.3

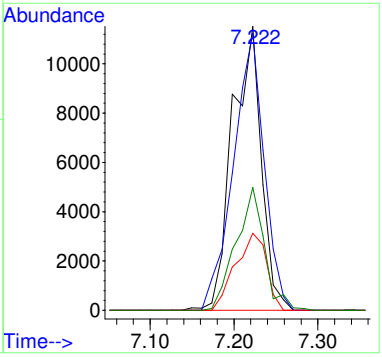


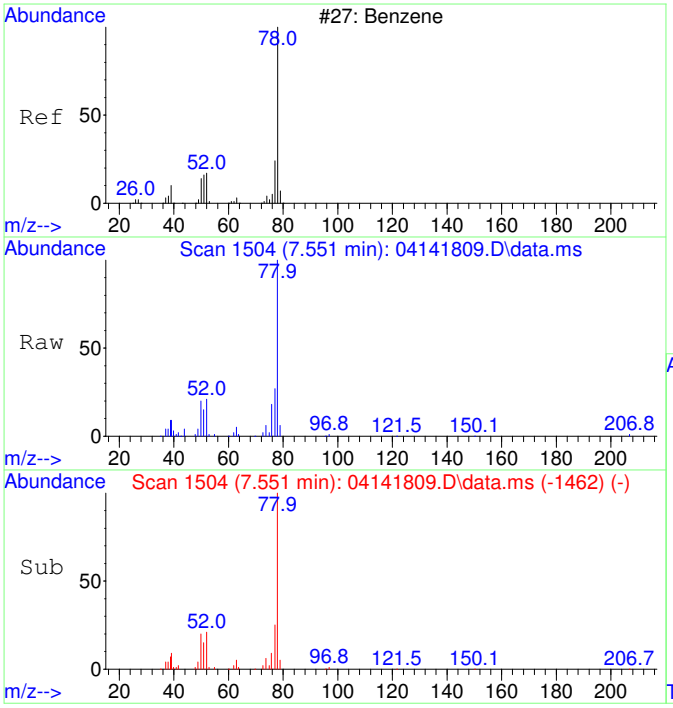


#32
Carbon tetrachloride SCAN
Concen: 5430.92 ug/L
RT: 7.222 min Scan# 1477
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:117 Resp: 27661

Ion	Ratio	Lower	Upper
117	100		
119	103.2	54.4	114.4
121	28.9	0.0	53.0
82	42.3	7.9	67.9

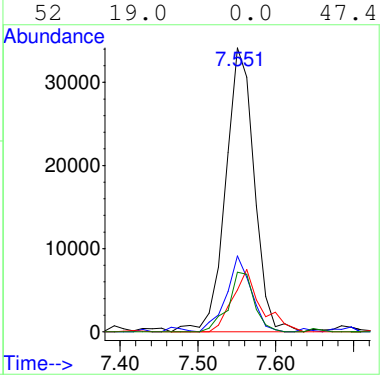


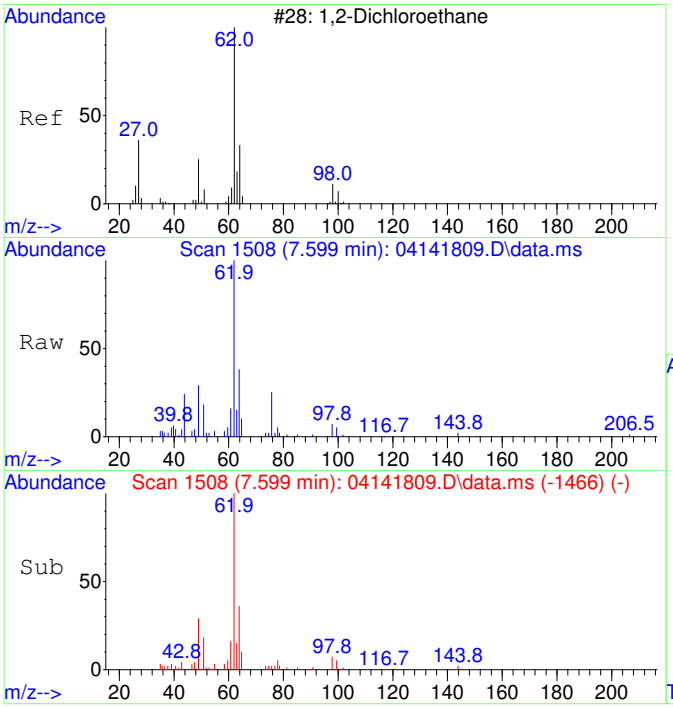


#33
Benzene SCAN
Concen: 5662.12 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 78 Resp: 87417

Ion	Ratio	Lower	Upper
78	100		
77	23.3	5.4	65.4
51	21.6	0.0	47.2
52	19.0	0.0	47.4

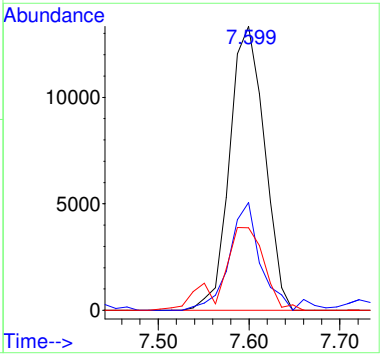


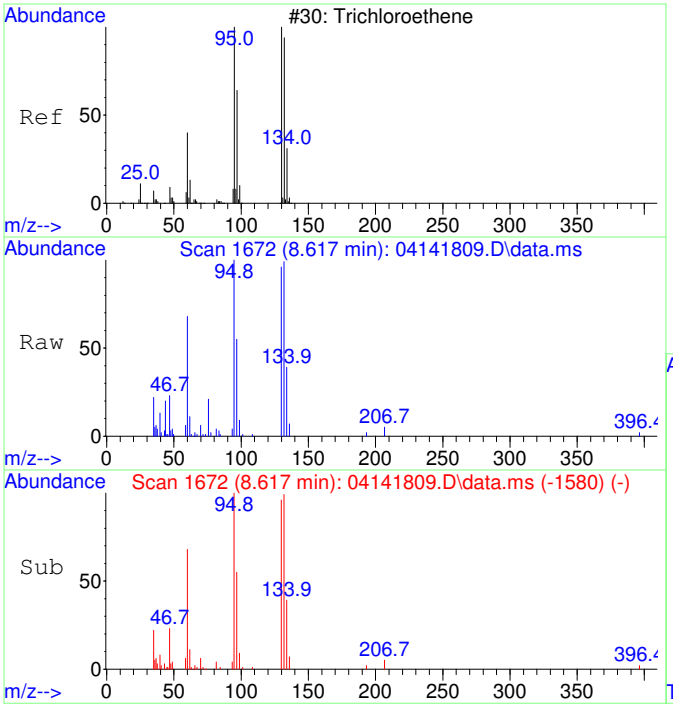


#34
1,2-Dichloroethane SCAN
Concen: 6073.67 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 62 Resp: 35556

Ion	Ratio	Lower	Upper
62	100		
64	33.6	4.4	64.4
49	35.4	1.2	61.2

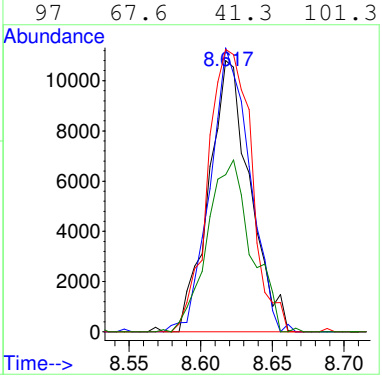


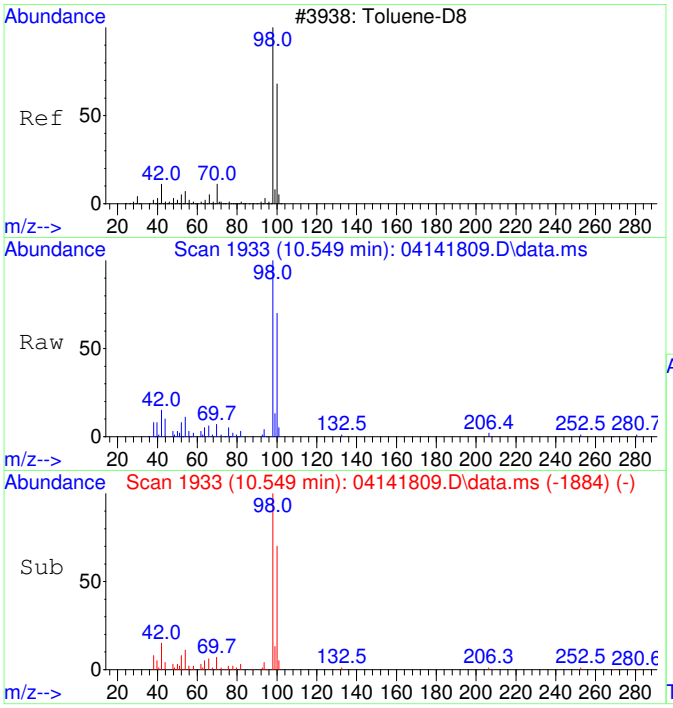


#35
Trichloroethene SCAN
Concen: 5566.94 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:130 Resp: 21594

Ion	Ratio	Lower	Upper
130	100		
95	100.7	71.3	131.3
132	110.2	75.1	135.1
97	67.6	41.3	101.3

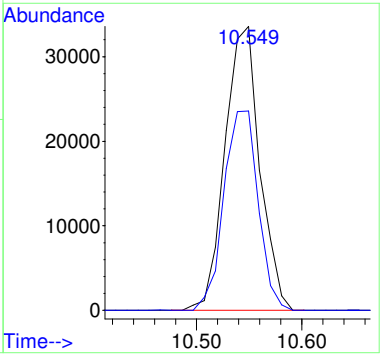


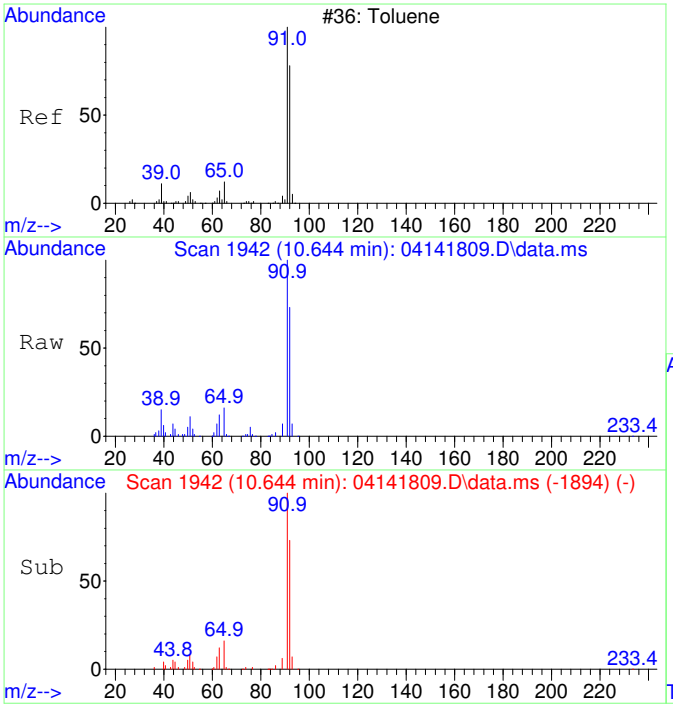


#36
Toluene-d8 SCAN
Concen: 4917.81 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 98 Resp: 77424

Ion	Ratio	Lower	Upper
98	100		
100	69.3	37.3	97.3

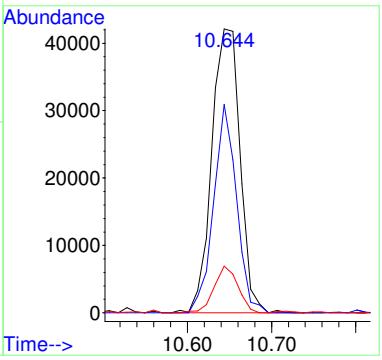


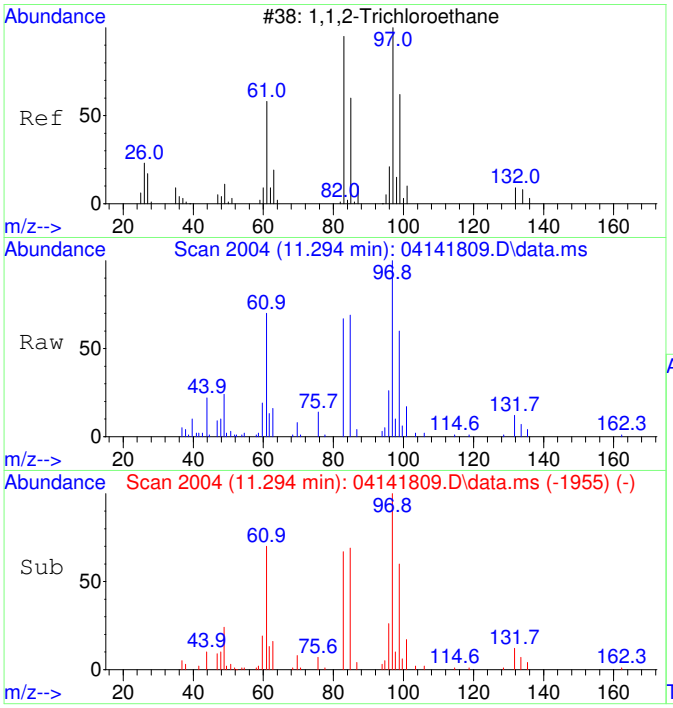


#37
Toluene SCAN
Concen: 5596.82 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 98546

Ion	Ratio	Lower	Upper
91	100		
92	59.5	39.1	99.1
65	14.0	0.0	43.8

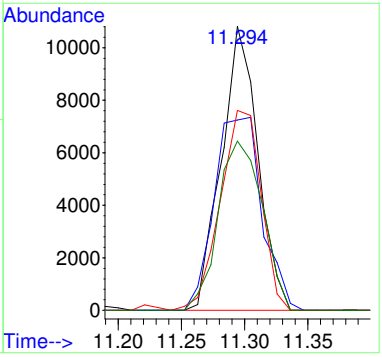


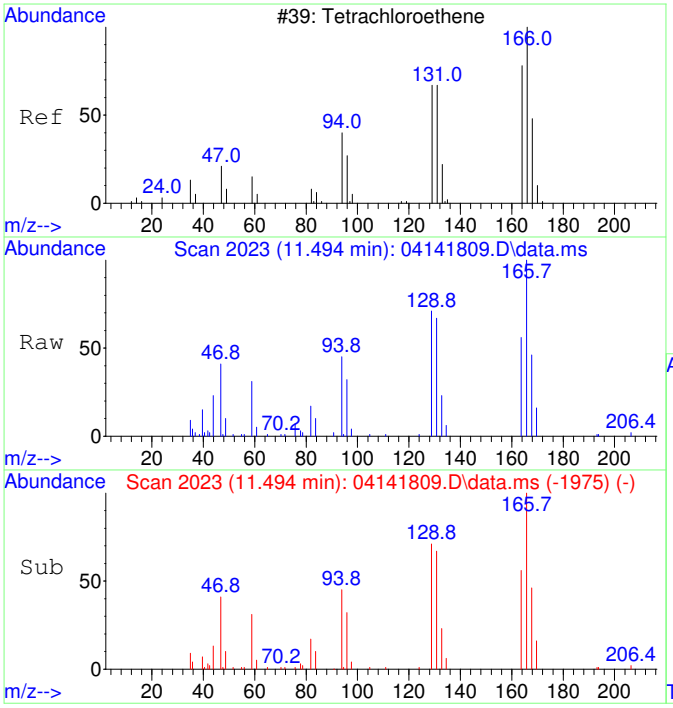


#38
1,1,2-Trichloroethane SCAN
Concen: 4045.97 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 21817

Ion	Ratio	Lower	Upper
97	100		
83	88.9	47.4	107.4
61	78.5	29.7	89.7
99	72.1	26.5	86.5

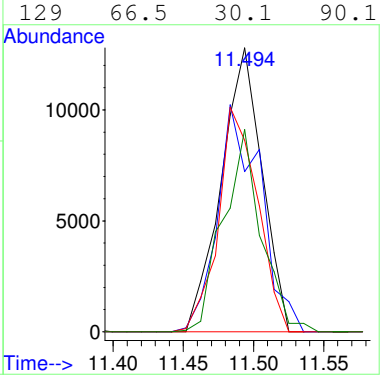


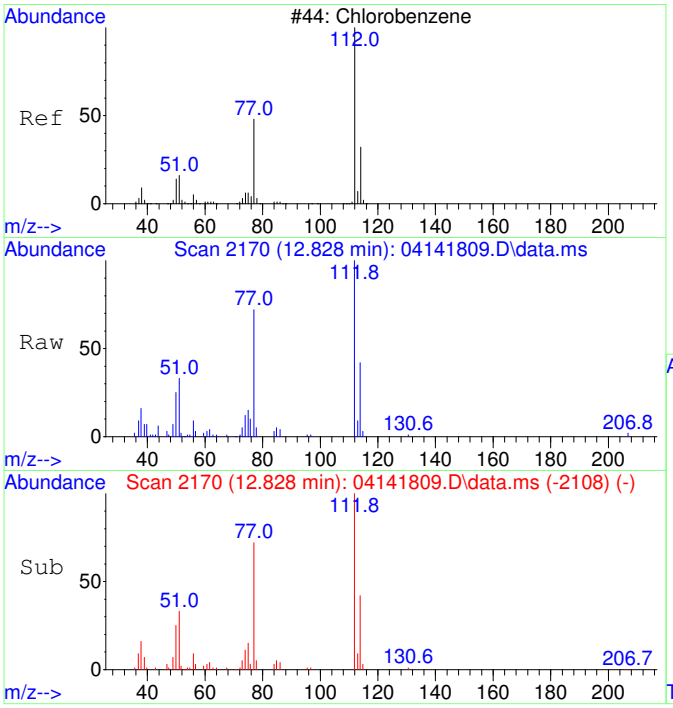


#39
Tetrachloroethene SCAN
Concen: 4540.51 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:166 Resp: 26072

Ion	Ratio	Lower	Upper
166	100		
164	84.2	49.8	109.8
131	75.7	42.0	102.0
129	66.5	30.1	90.1

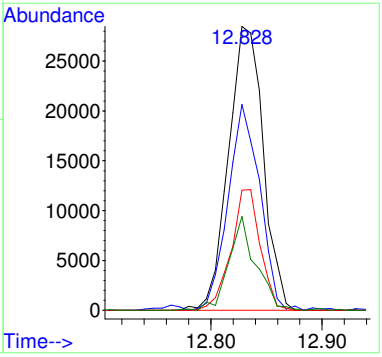


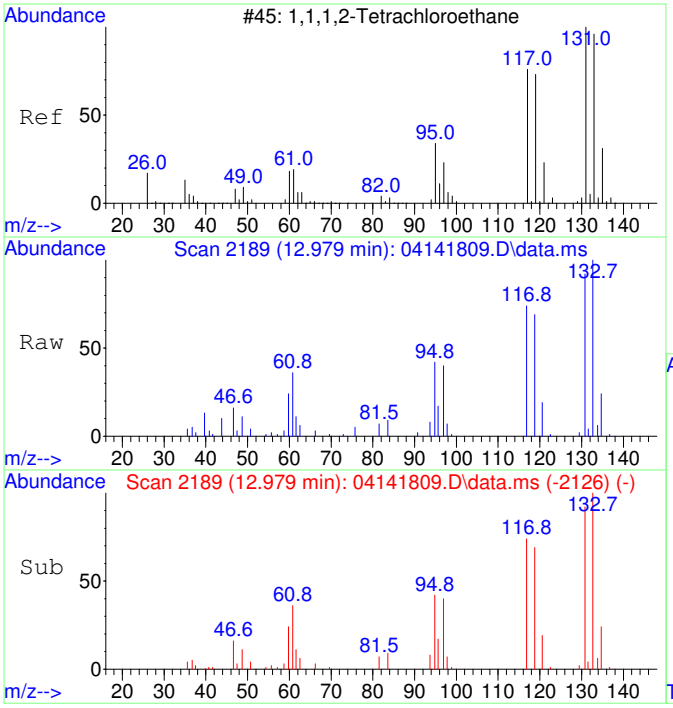


#40
Chlorobenzene SCAN
Concen: 4480.11 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.008 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:112 Resp: 61991

Ion	Ratio	Lower	Upper
112	100		
77	66.1	39.7	99.7
114	35.9	1.2	61.2
51	25.6	0.0	57.1

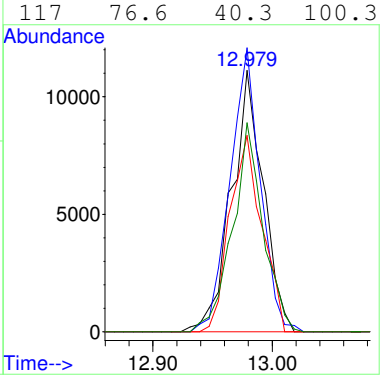


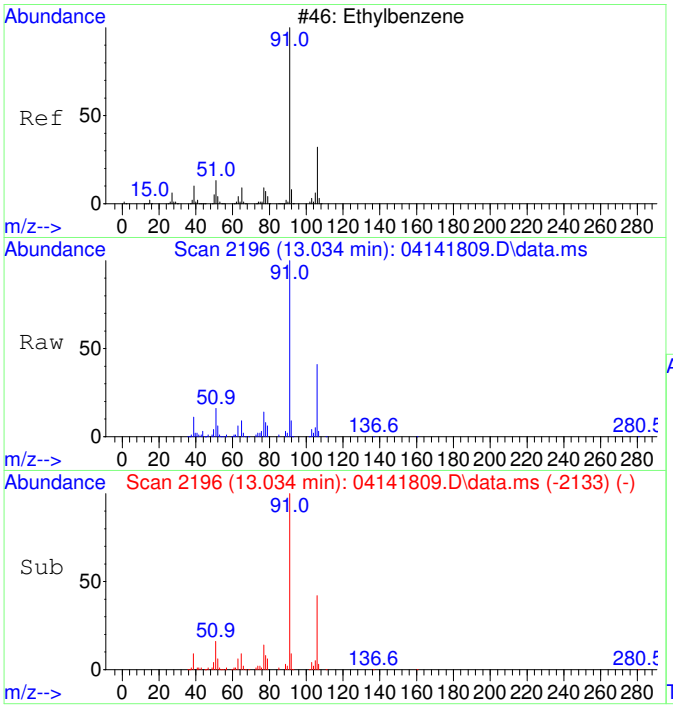


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4601.64 ug/L
RT: 12.979 min Scan# 2189
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:131 Resp: 20700

Ion	Ratio	Lower	Upper
131	100		
133	103.4	78.7	138.7
119	75.4	43.0	103.0
117	76.6	40.3	100.3

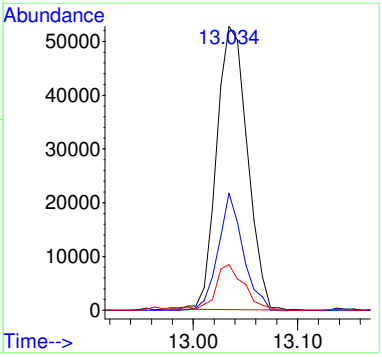


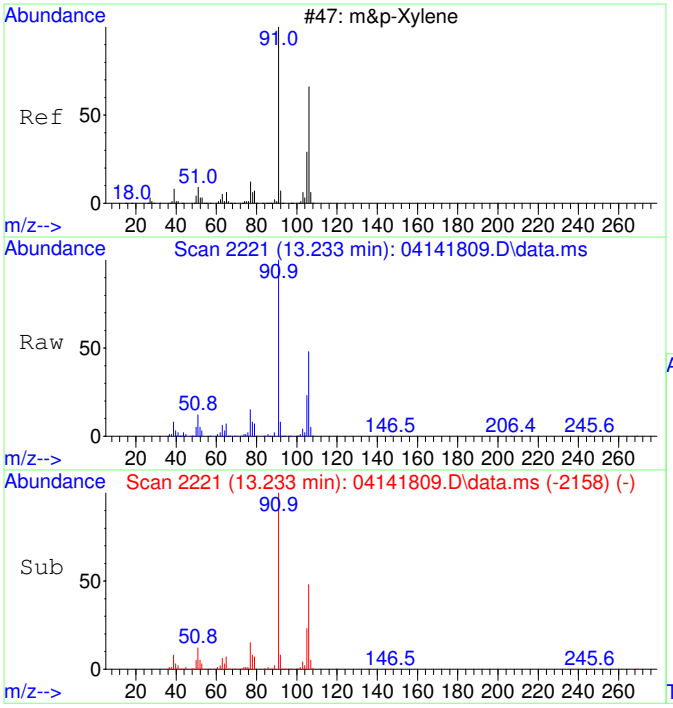


#42
Ethylbenzene SCAN
Concen: 4657.50 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 107495

Ion	Ratio	Lower	Upper
91	100		
106	33.5	1.8	61.8
51	14.7	0.0	45.4

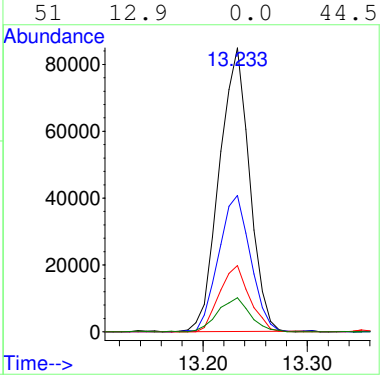


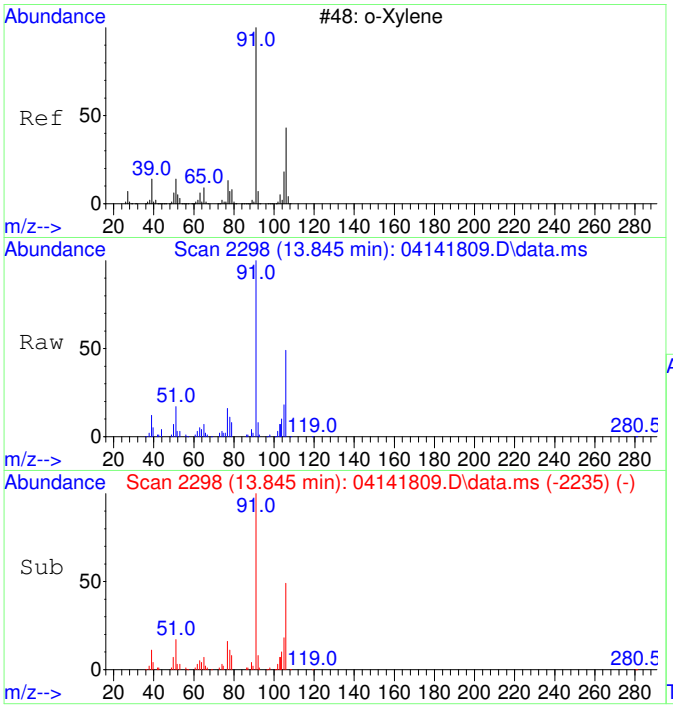


#43
m&p-Xylene SCAN
Concen: 4538.00 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 170448

Ion	Ratio	Lower	Upper
91	100		
106	50.9	14.6	74.6
105	23.3	0.0	52.8
51	12.9	0.0	44.5

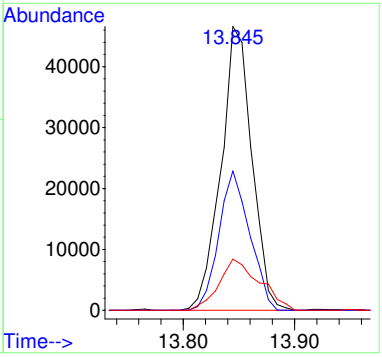


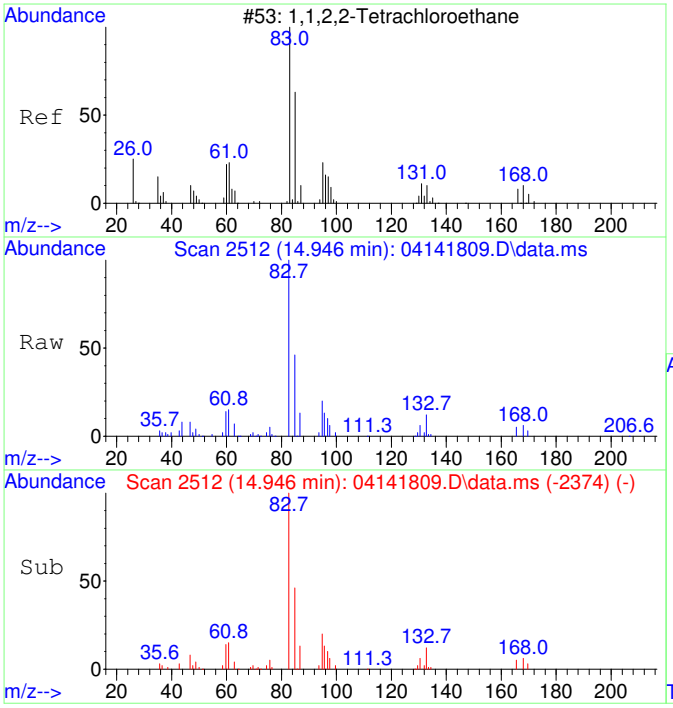


#44
o-Xylene SCAN
Concen: 4438.57 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 90273

Ion	Ratio	Lower	Upper
91	100		
106	48.9	20.2	80.2
105	23.7	0.0	54.9

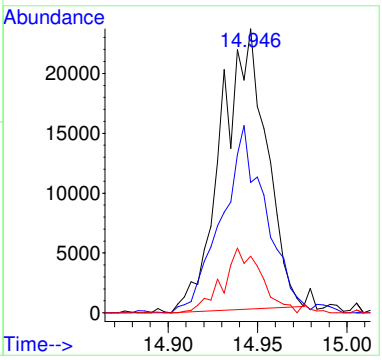


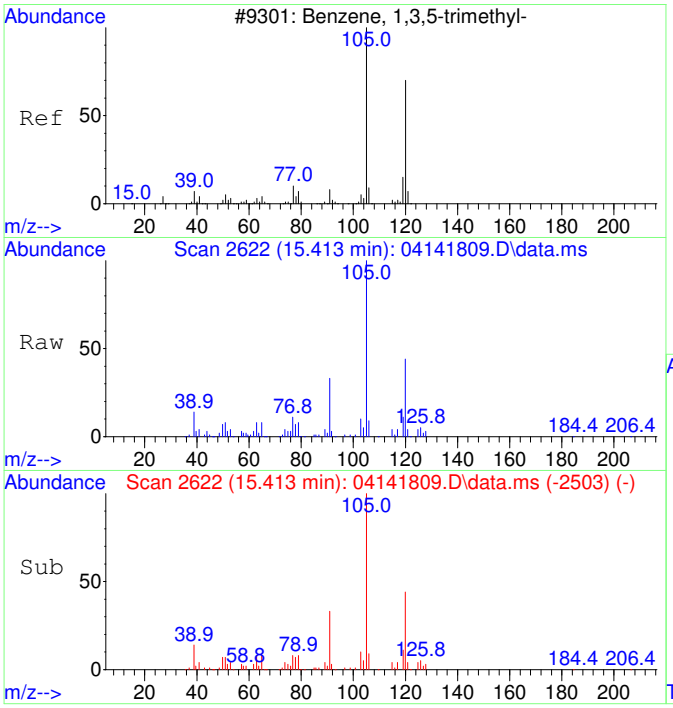


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 3921.65 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 41748

Ion	Ratio	Lower	Upper
83	100		
85	63.1	32.4	92.4
95	19.4	0.0	41.2

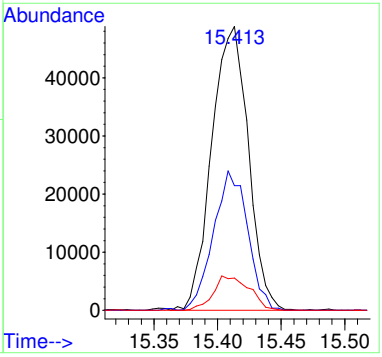


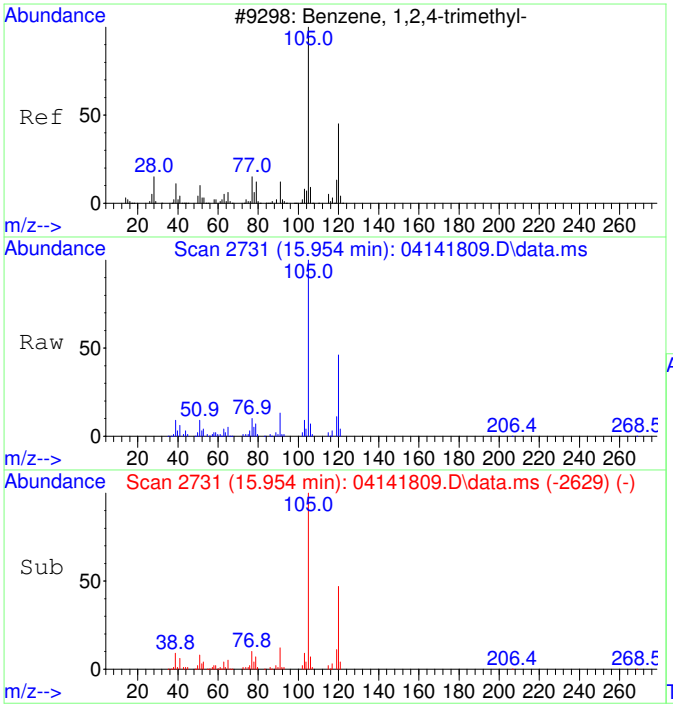


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4204.93 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 98297

Ion	Ratio	Lower	Upper
105	100		
120	46.1	16.1	76.1
119	11.9	0.0	41.8

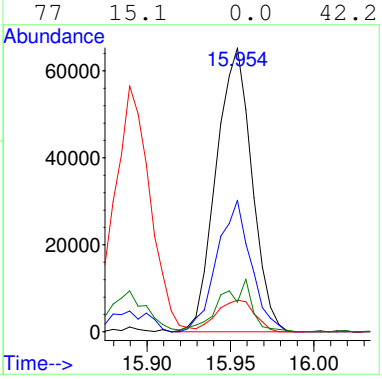


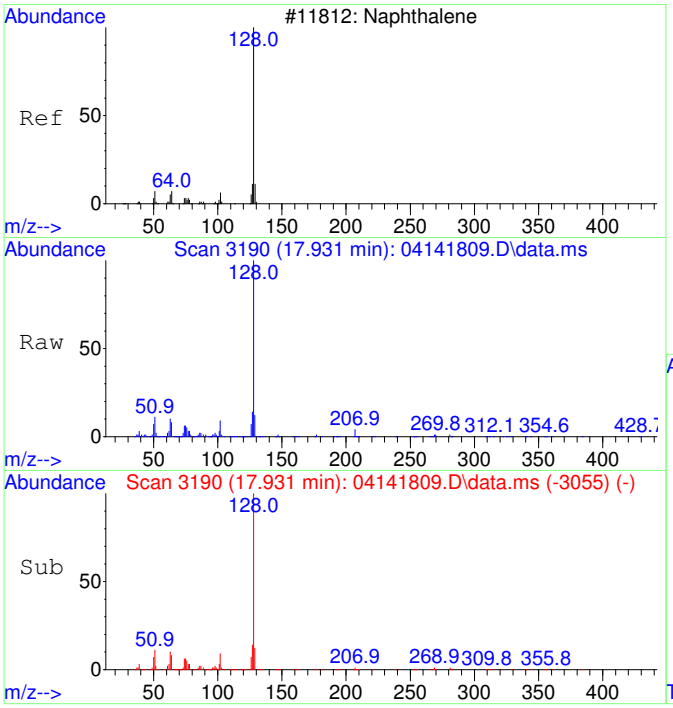


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4114.40 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.006 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 96950

Ion	Ratio	Lower	Upper
105	100		
120	44.0	12.8	72.8
119	10.6	0.0	42.5
77	15.1	0.0	42.2

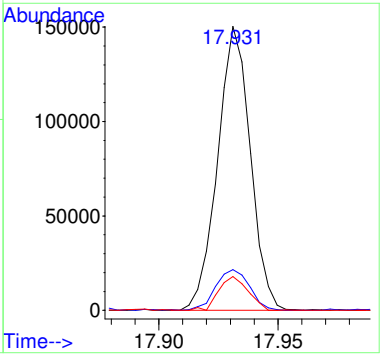


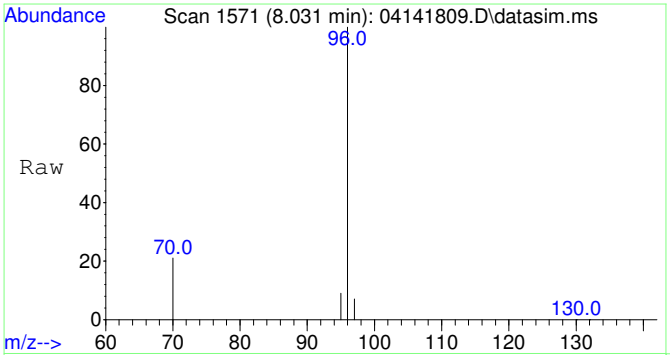


#48
Naphthalene SCAN
Concen: 3785.10 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:128 Resp: 143705

Ion	Ratio	Lower	Upper
128	100		
127	14.8	0.0	45.2
129	10.6	0.0	42.0

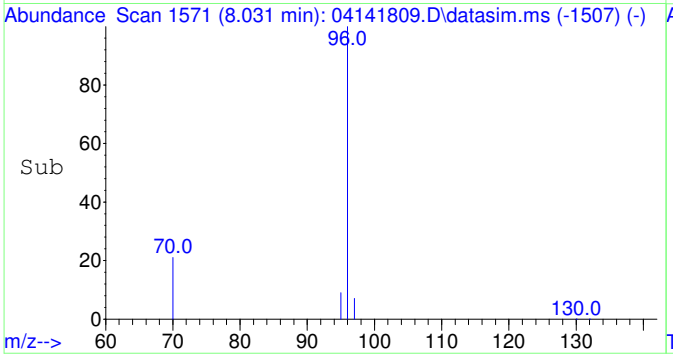


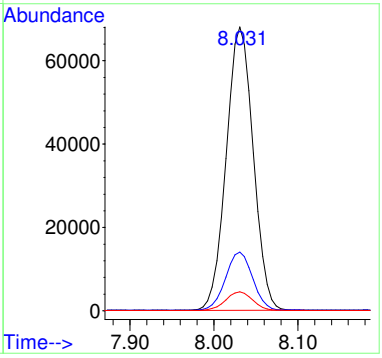


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.031 min Scan# 1571
Delta R.T. 0.006 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 96 Resp: 151656

Ion	Ratio	Lower	Upper
96	100		
70	20.5	0.0	50.7
97	6.6	0.0	36.7





Quantitation Report (QT Reviewed)

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M.I. Performed By:
RH at 9:36 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:11 pm, Apr 16, 2018

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141809.D
Acq On : 14 Apr 2018 14:02
InstName : AG5975C
Operator : RH
Sample : S18D063-SCV1
Misc : 1745051 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 16 09:31:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

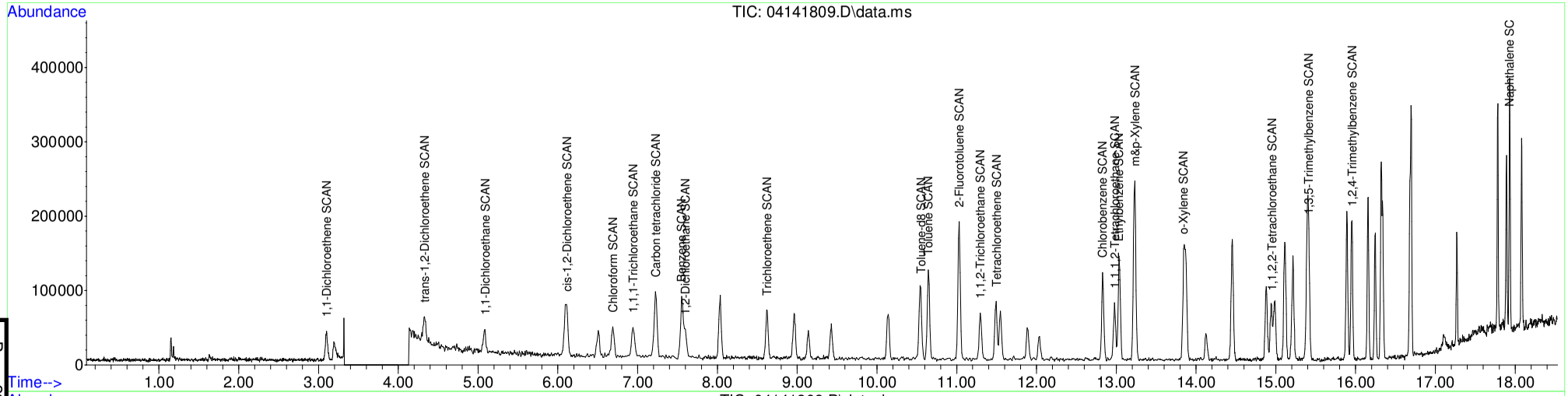
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	185572	5000.00 ug/L	0.00
49) Fluorobenzene	8.031	96	151656	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	157279	5049.45 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.99%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	44584m	5473.30 ug/L	
3] trans-1,2-Dichloroethene	4.323	61	48400	5814.98 ug/L	100
4] 1,1-Dichloroethane	5.079	63	60911	5496.21 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	58100	5666.73 ug/L	100
6] Chloroform	6.688	83	63361	5254.67 ug/L	99
7] 1,1,1-Trichloroethane	6.944	97	63501	5393.29 ug/L	100
8] Carbon tetrachloride	7.211	117	56645	5273.37 ug/L	98
9] Benzene	7.552	78	159202	5355.68 ug/L	100
10] 1,2-Dichloroethane	7.588	62	56215	5423.70 ug/L	99
11] Trichloroethene	8.619	130	42284	5162.67 ug/L	100
13] Toluene	10.634	91	183676	4685.17 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	41328	4771.32 ug/L	100
15] Tetrachloroethene	11.495	166	51413	4784.67 ug/L	100
16] Chlorobenzene	12.829	112	129899	4702.21 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	44835	4875.23 ug/L	99
18] Ethylbenzene	13.036	91	214930	4829.49 ug/L	100
19] m&p-Xylene	13.226	91	331842	9529.34 ug/L	100
20] o-Xylene	13.846	91	177919	4848.66 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.944	83	77783	4566.99 ug/L	100
22] 1,3,5-Trimethylbenzene	15.409	105	198123	4613.08 ug/L	100
23] 1,2,4-Trimethylbenzene	15.950	105	198024	4532.74 ug/L	100
24] Naphthalene	17.932	128	328706	4346.24 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	99886	5570.54 ug/L	94
26) 1,1-Dichloroethene SCAN	3.100	61	26054	6555.98 ug/L	87
27) trans-1,2-Dichloroethe...	4.328	61	25160	6461.42 ug/L	81
28) 1,1-Dichloroethane SCAN	5.085	63	35334	5930.41 ug/L	95
29) cis-1,2-Dichloroethene...	6.113	61	33275	7114.71 ug/L	87
30) Chloroform SCAN	6.687	83	37111	6576.53 ug/L	87
31) 1,1,1-Trichloroethane ...	6.943	97	29359	4146.00 ug/L	76
32) Carbon tetrachloride SCAN	7.222	117	27661	5430.92 ug/L	84
33) Benzene SCAN	7.551	78	87417	5662.12 ug/L	86
34) 1,2-Dichloroethane SCAN	7.599	62	35556	6073.67 ug/L	96
35) Trichloroethene SCAN	8.617	130	21594	5566.94 ug/L	97
36) Toluene-d8 SCAN	10.549	98	77424	4917.81 ug/L	98
37) Toluene SCAN	10.644	91	98546	5596.82 ug/L	90
38) 1,1,2-Trichloroethane ...	11.294	97	21817	4045.97 ug/L	81
39) Tetrachloroethene SCAN	11.494	166	26072	4540.51 ug/L	94
40) Chlorobenzene SCAN	12.828	112	61991	4480.11 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.979	131	20700	4601.64 ug/L	95
42) Ethylbenzene SCAN	13.034	91	107495	4657.50 ug/L	97
43) m&p-Xylene SCAN	13.233	91	170448	4538.00 ug/L	94
44) o-Xylene SCAN	13.845	91	90273	4438.57 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.946	83	41748	3921.65 ug/L	96
46) 1,3,5-Trimethylbenzene...	15.413	105	98297	4204.93 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.954	105	96950	4114.40 ug/L	97
48) Naphthalene SCAN	17.931	128	143705	3785.10 ug/L	98

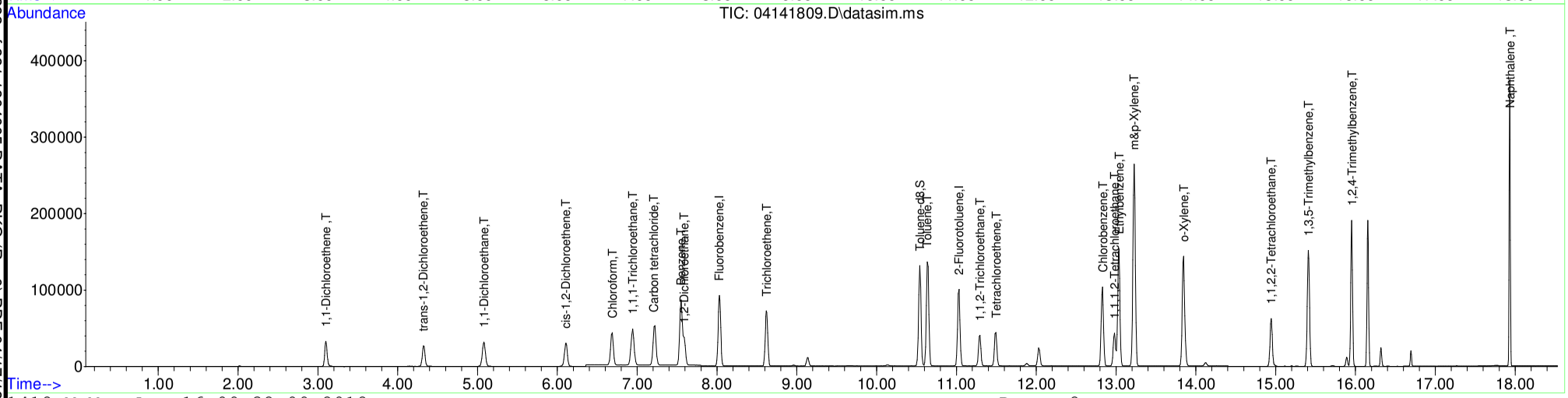
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141809.D
Acq On : 14 Apr 2018 14:02
InstName : AG5975C
Operator : RH
Sample : S18D063-SCV1
Misc : 1745051 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 16 09:31:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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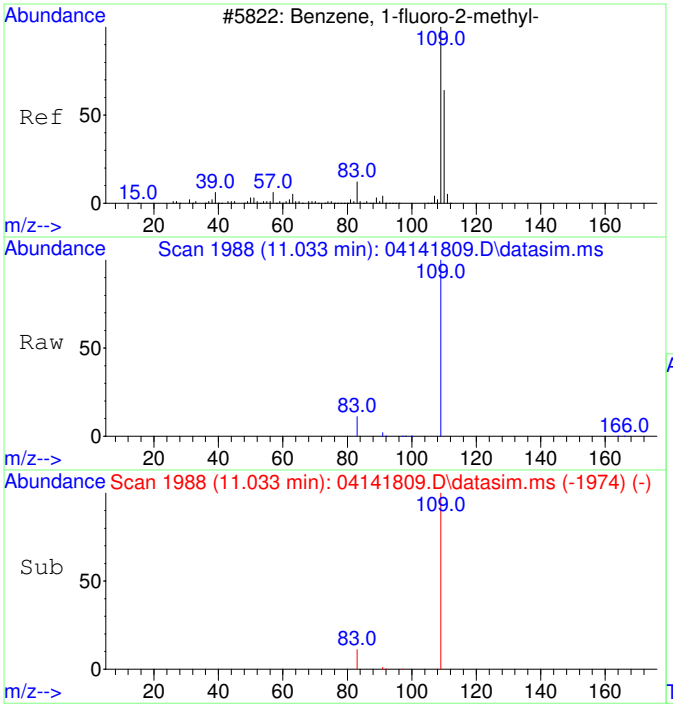
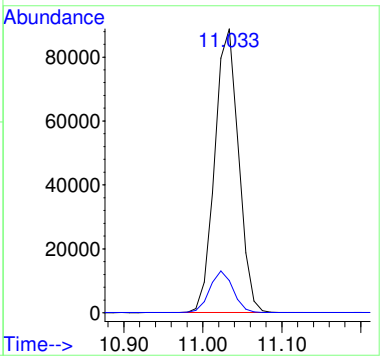
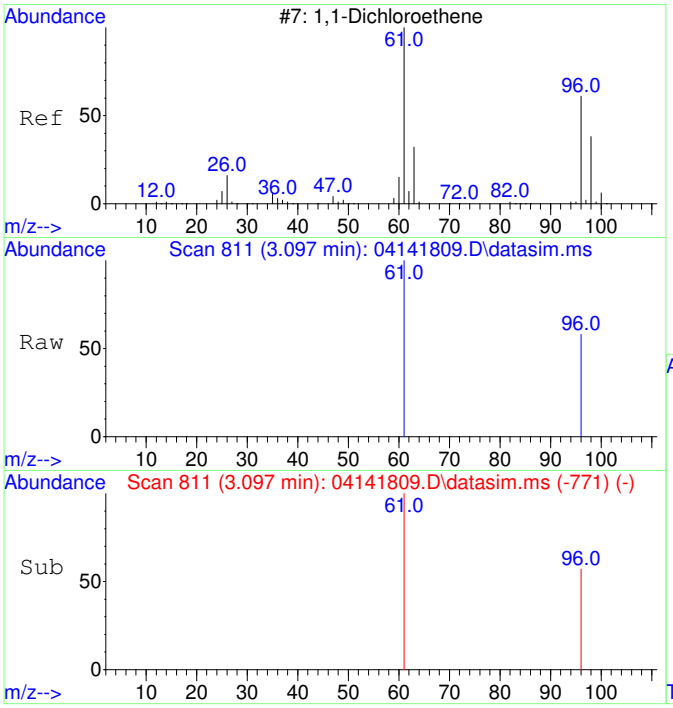


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:109 Resp: 185572

Ion	Ratio	Lower	Upper
109	100		
83	14.3	0.0	44.4

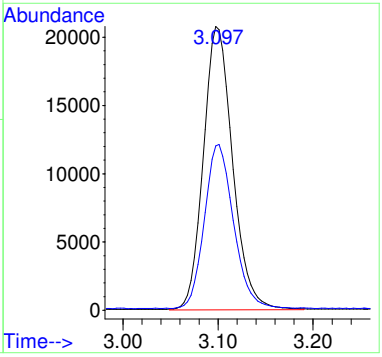


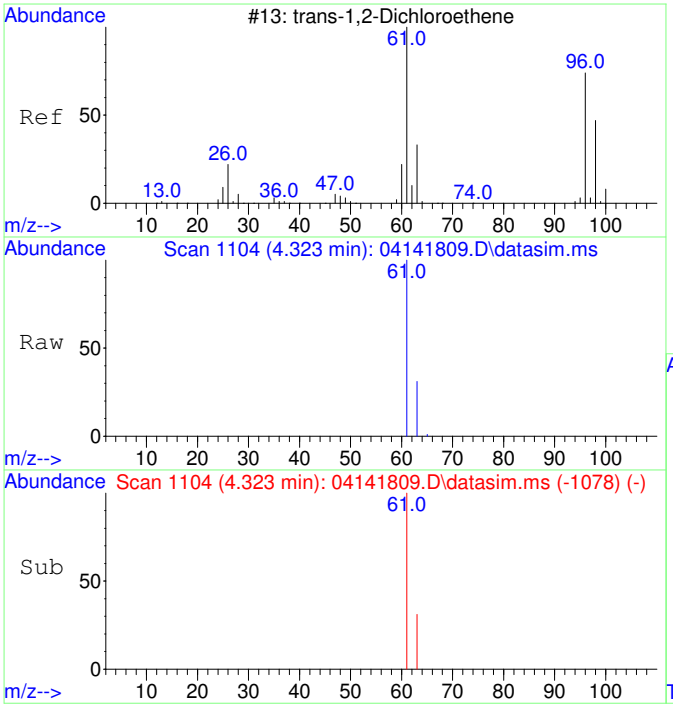


#2
1,1-Dichloroethene
Concen: 5473.30 ug/L m
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 44584

Ion	Ratio	Lower	Upper
61	100		
96	57.0	26.1	86.1

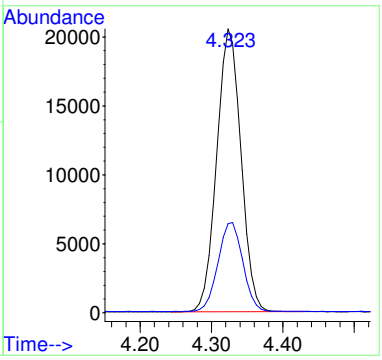


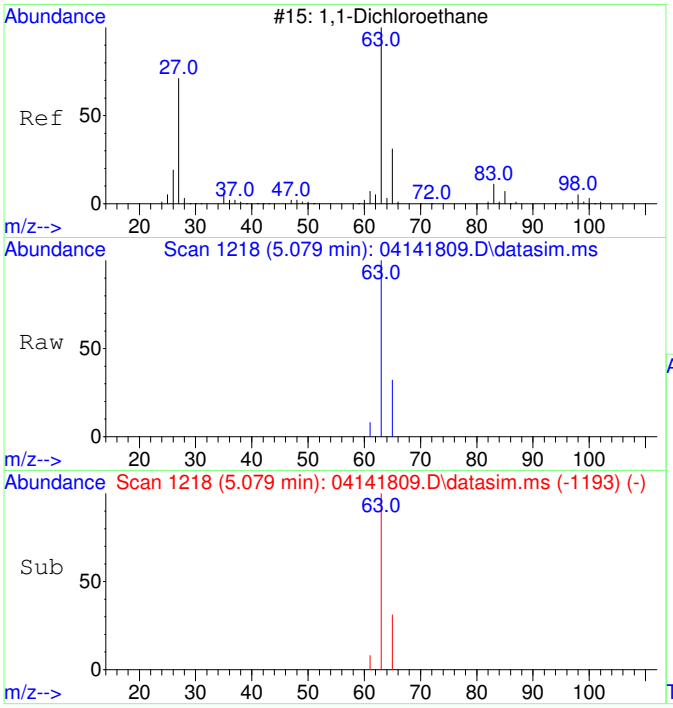


#3
trans-1,2-Dichloroethene
Concen: 5814.98 ug/L
RT: 4.323 min Scan# 1104
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 48400

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

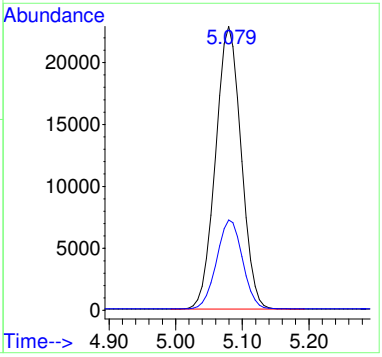


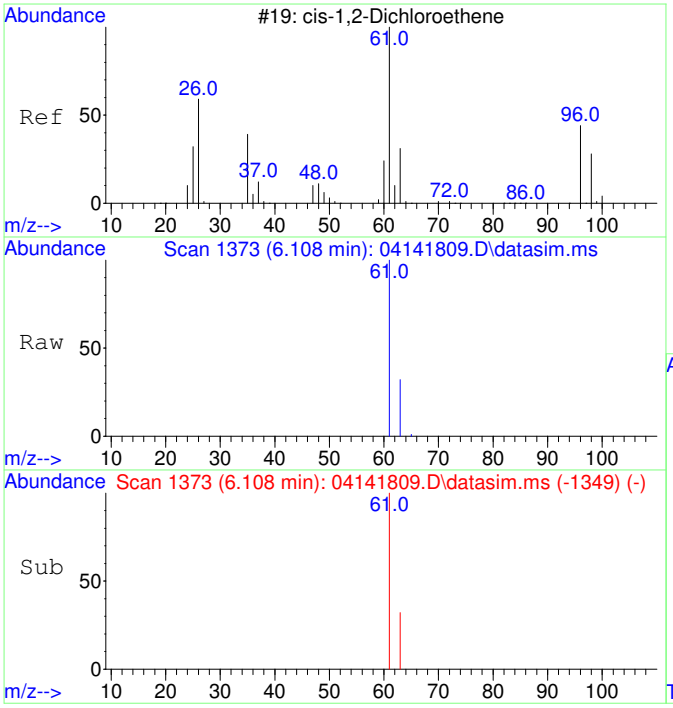


#4
1,1-Dichloroethane
Concen: 5496.21 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 63 Resp: 60911

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.8	61.8

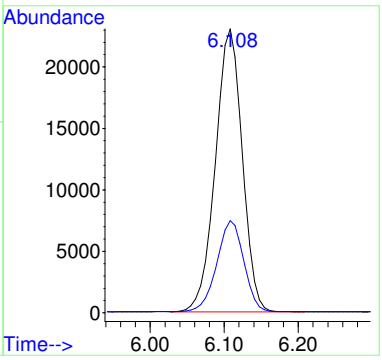


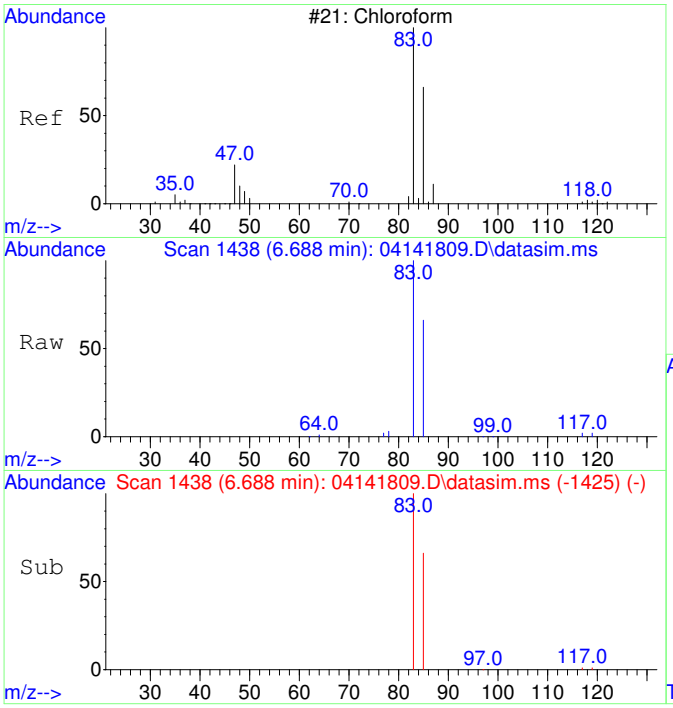


#5
cis-1,2-Dichloroethene
Concen: 5666.73 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.007 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 58100

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.0	62.0

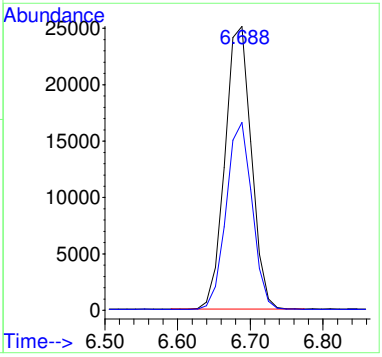


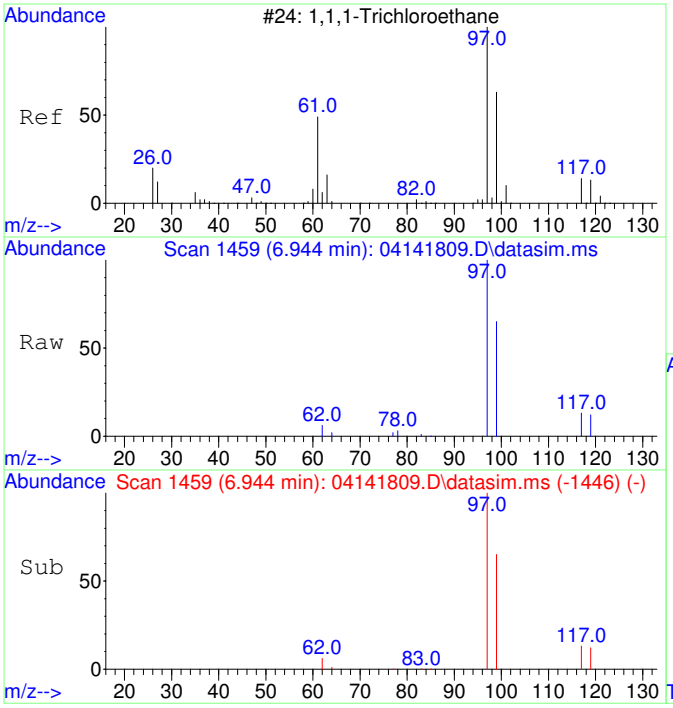


#6
Chloroform
Concen: 5254.67 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 63361

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.2	94.2

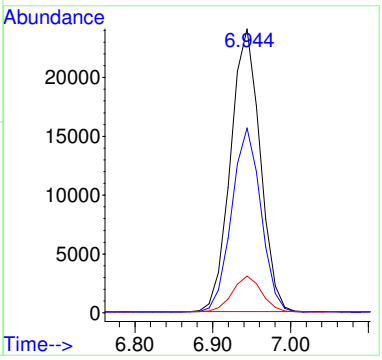


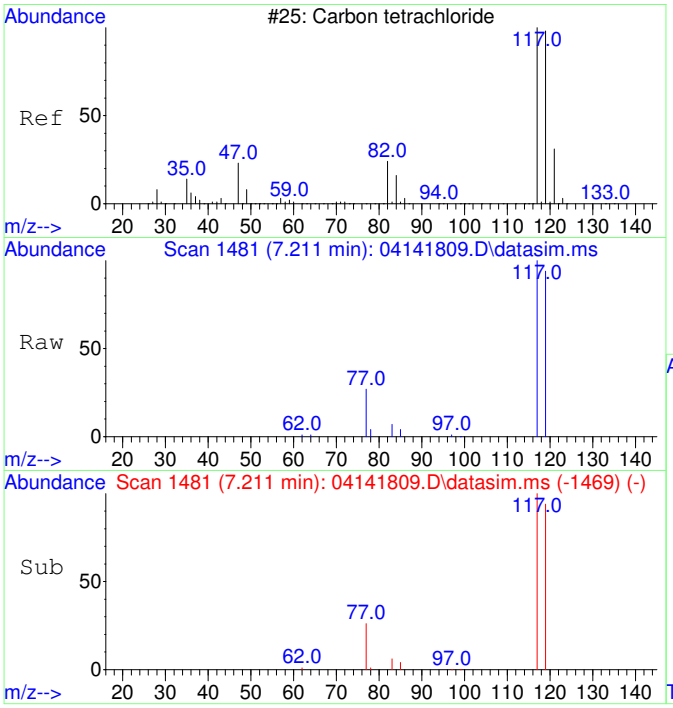


#7
1,1,1-Trichloroethane
Concen: 5393.29 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 63501

Ion	Ratio	Lower	Upper
97	100		
99	64.6	34.5	94.5
117	12.4	0.0	42.6

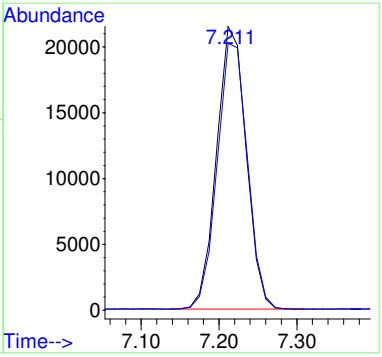


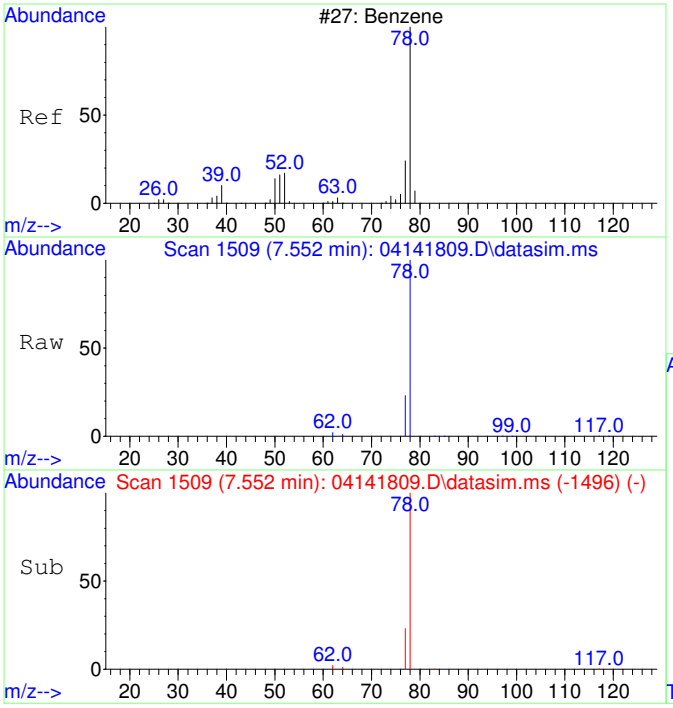


#8
Carbon tetrachloride
Concen: 5273.37 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:117 Resp: 56645

Ion	Ratio	Lower	Upper
117	100		
119	96.1	64.5	124.5

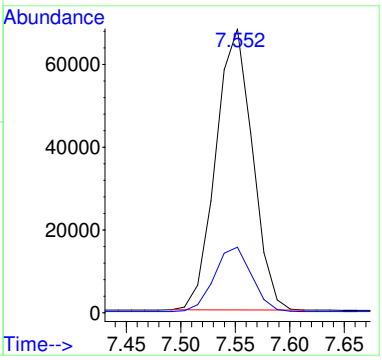


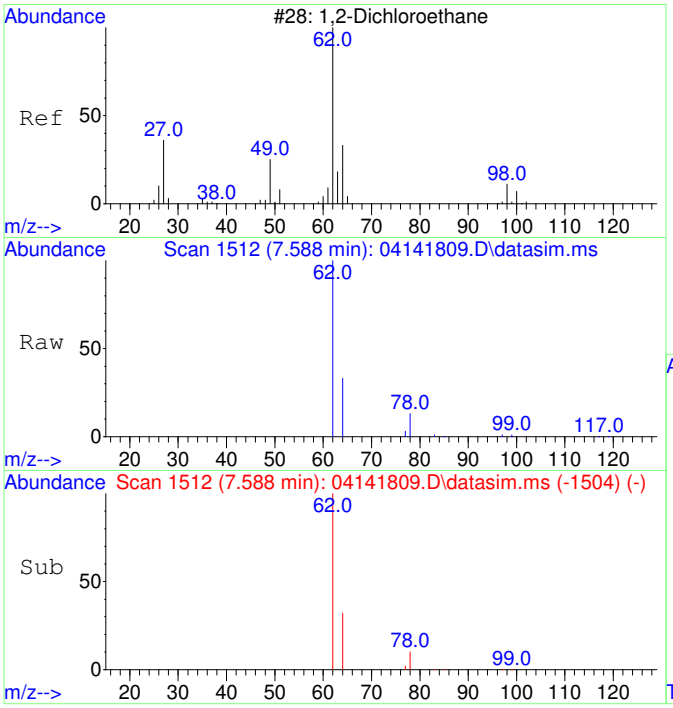


#9
Benzene
Concen: 5355.68 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 78 Resp: 159202

Ion	Ratio	Lower	Upper
78	100		
77	23.4	0.0	53.6

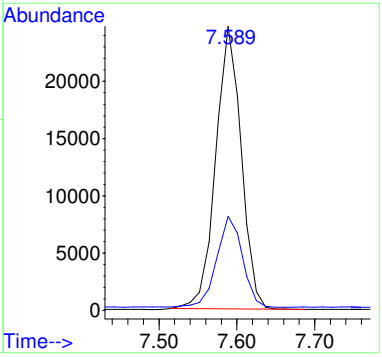


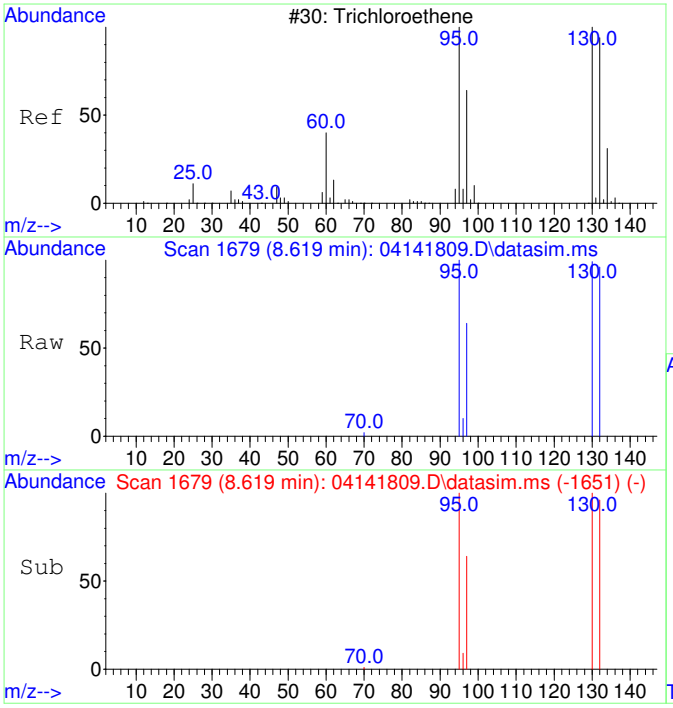


#10
1,2-Dichloroethane
Concen: 5423.70 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 62 Resp: 56215

Ion	Ratio	Lower	Upper
62	100		
64	32.2	1.8	61.8

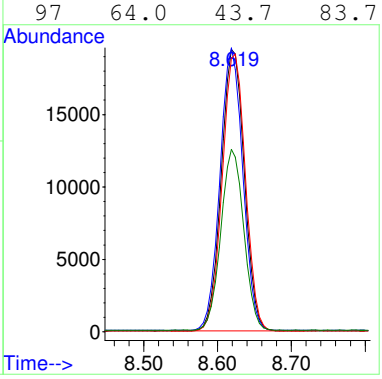


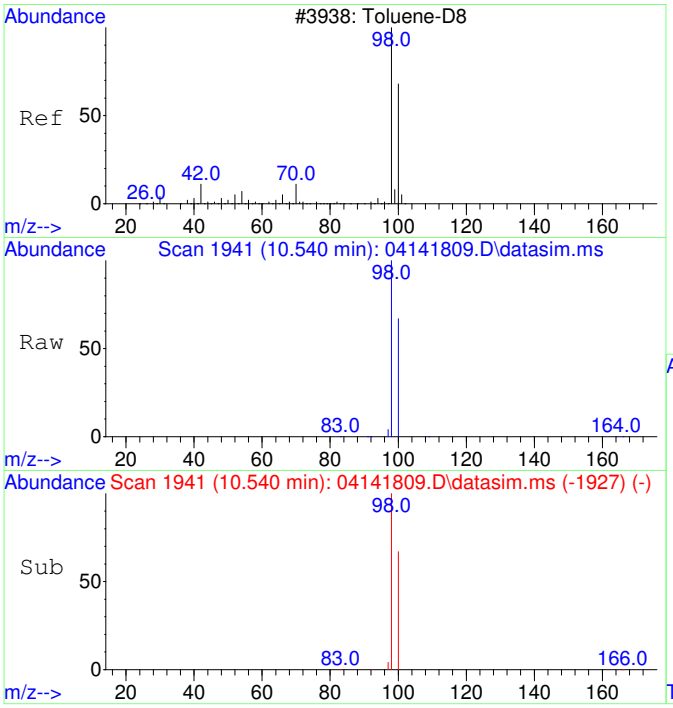


#11
Trichloroethene
Concen: 5162.67 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:130 Resp: 42284

Ion	Ratio	Lower	Upper
130	100		
95	99.2	68.8	128.8
132	98.6	78.6	118.6
97	64.0	43.7	83.7

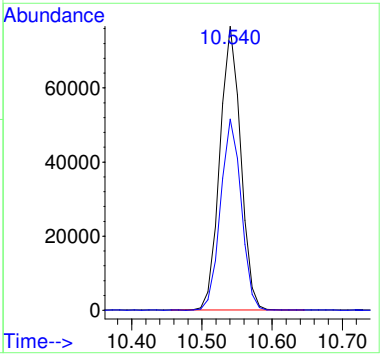


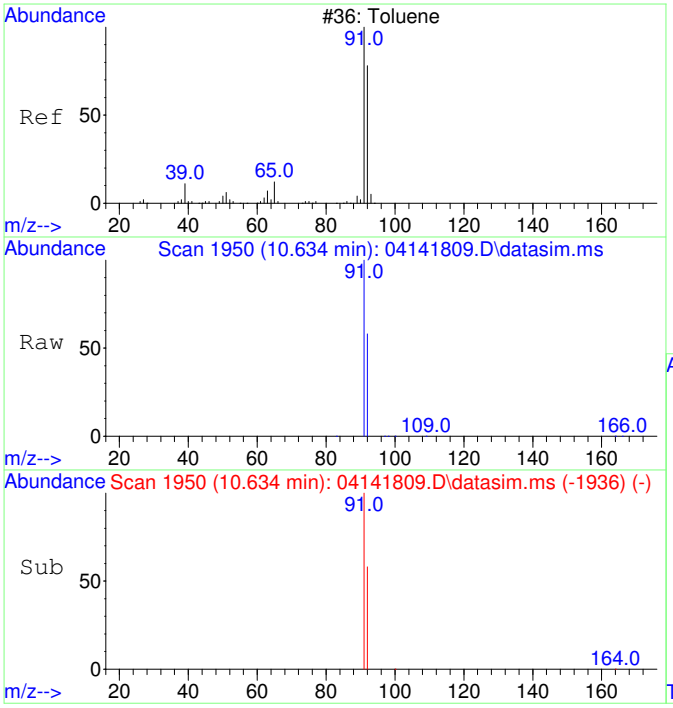


#12
Toluene-d8
Concen: 5049.45 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 98 Resp: 157279

Ion	Ratio	Lower	Upper
98	100		
100	67.0	36.9	96.9

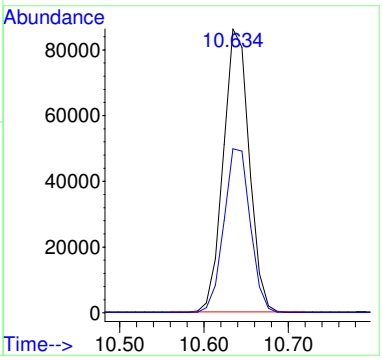


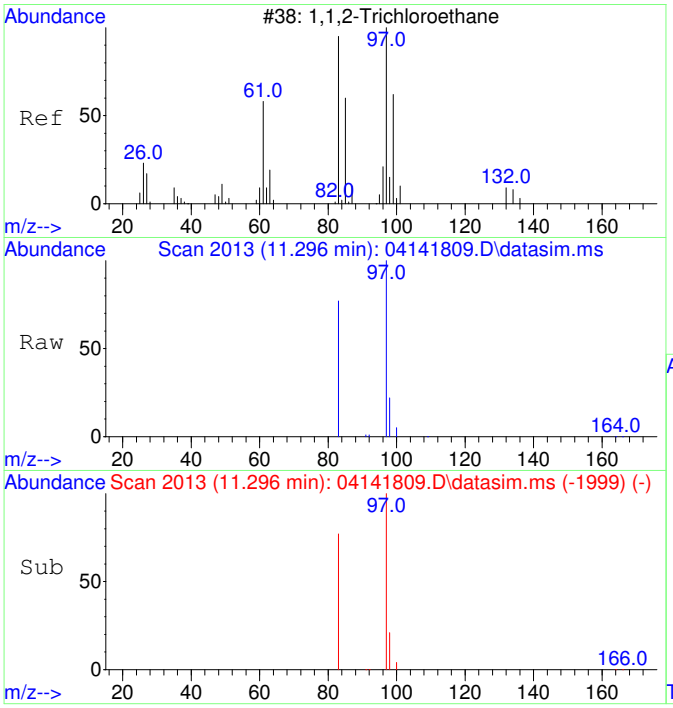


#13
Toluene
Concen: 4685.17 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 183676

Ion	Ratio	Lower	Upper
91	100		
92	59.1	28.8	88.8

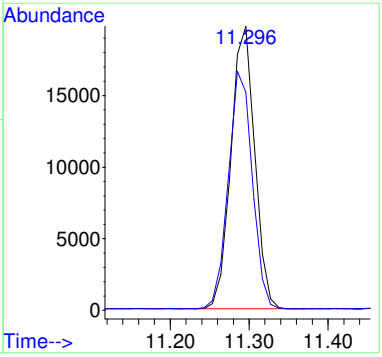


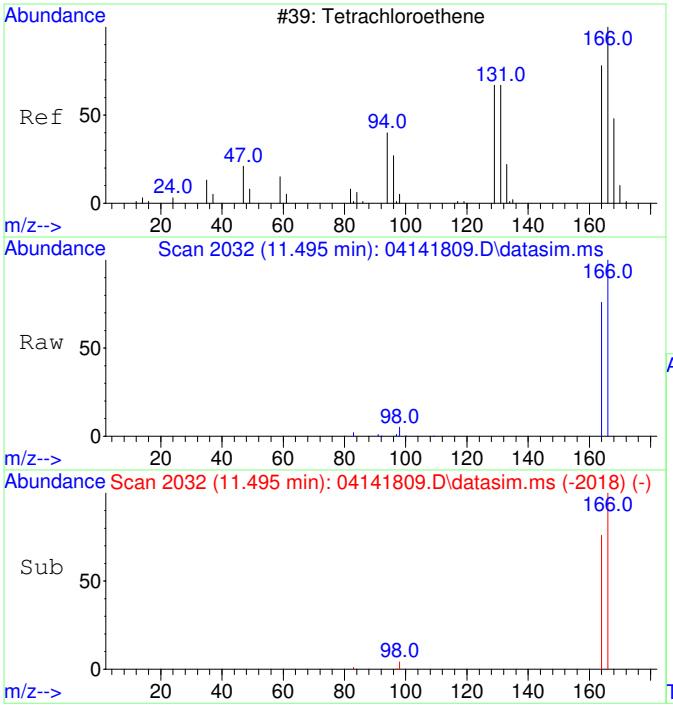


#14
1,1,2-Trichloroethane
Concen: 4771.32 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 41328

Ion	Ratio	Lower	Upper
97	100		
83	84.6	54.3	114.3

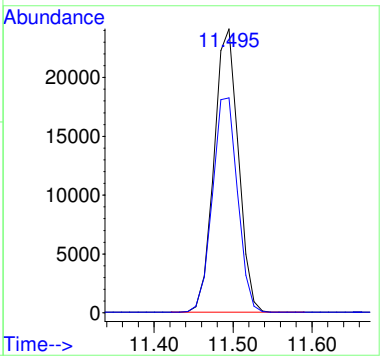


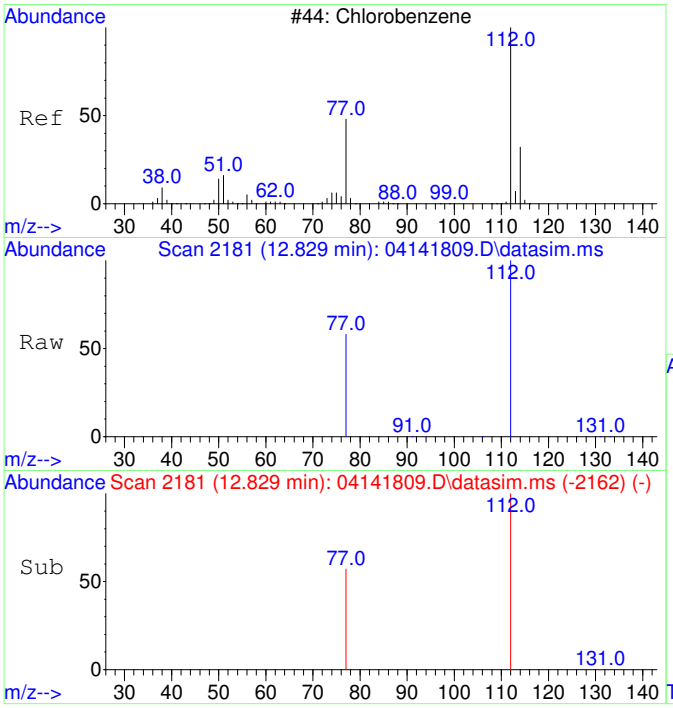


#15
Tetrachloroethene
Concen: 4784.67 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:166 Resp: 51413

Ion	Ratio	Lower	Upper
166	100		
164	78.1	48.0	108.0

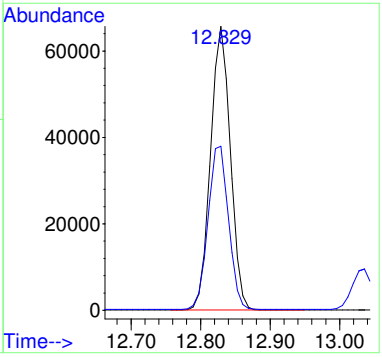


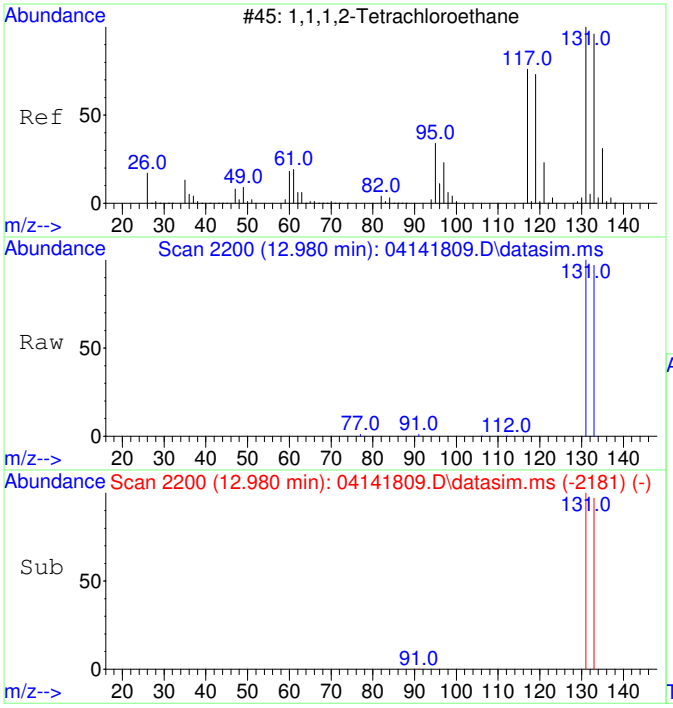


#16
Chlorobenzene
Concen: 4702.21 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:112 Resp: 129899

Ion	Ratio	Lower	Upper
112	100		
77	59.4	29.4	89.4

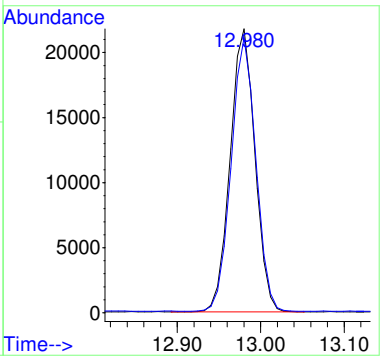


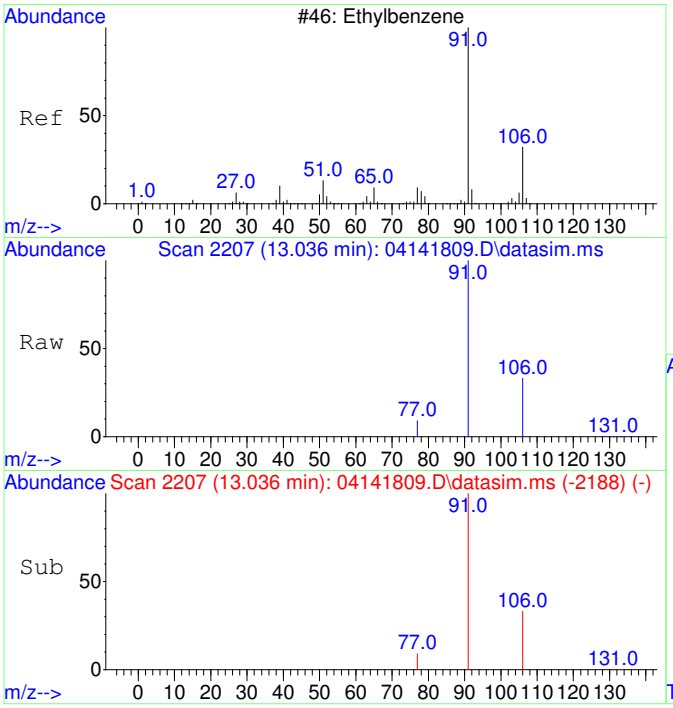


#17
1,1,1,2-Tetrachloroethane
Concen: 4875.23 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:131 Resp: 44835

Ion	Ratio	Lower	Upper
131	100		
133	96.1	65.1	125.1

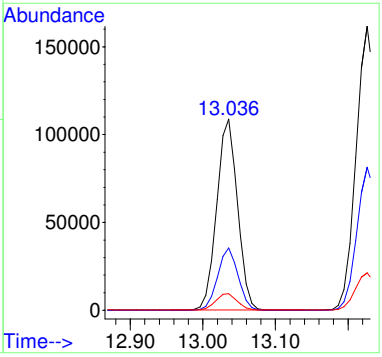


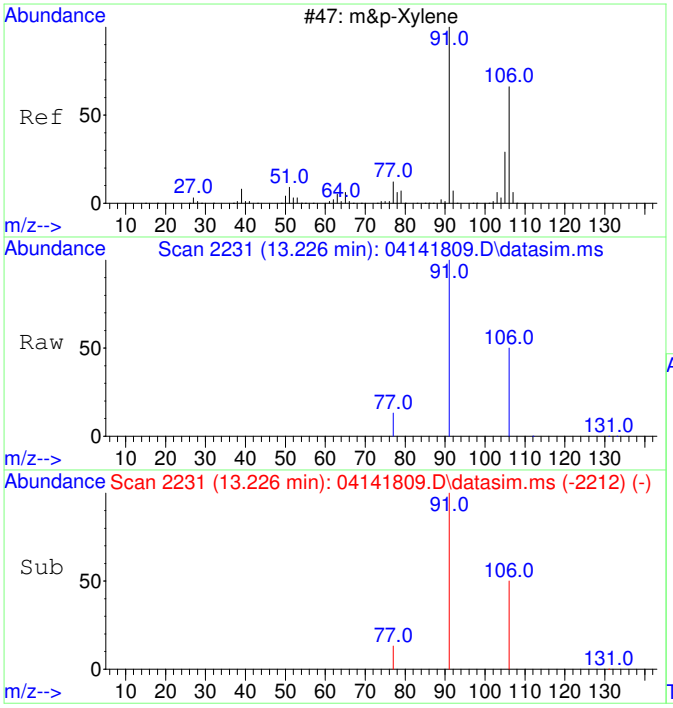


#18
Ethylbenzene
Concen: 4829.49 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 214930

Ion	Ratio	Lower	Upper
91	100		
106	32.1	1.8	61.8
77	8.7	0.0	38.7

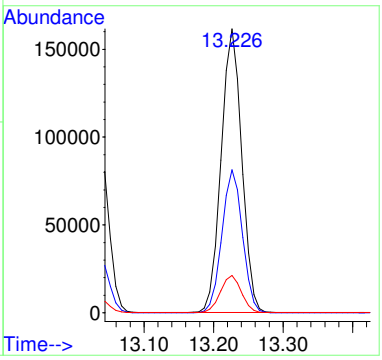


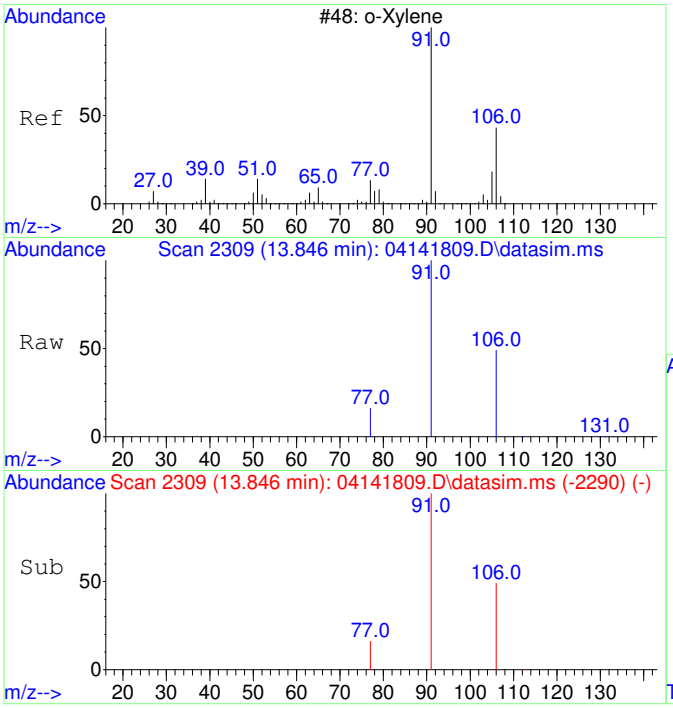


#19
m&p-Xylene
Concen: 9529.34 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 331842

Ion	Ratio	Lower	Upper
91	100		
106	50.2	20.0	80.0
77	13.2	0.0	43.4

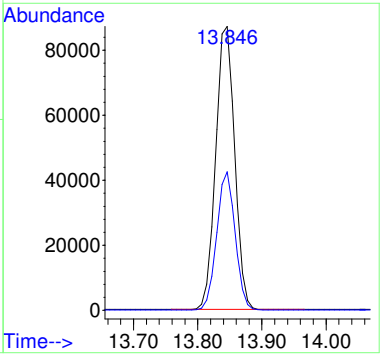


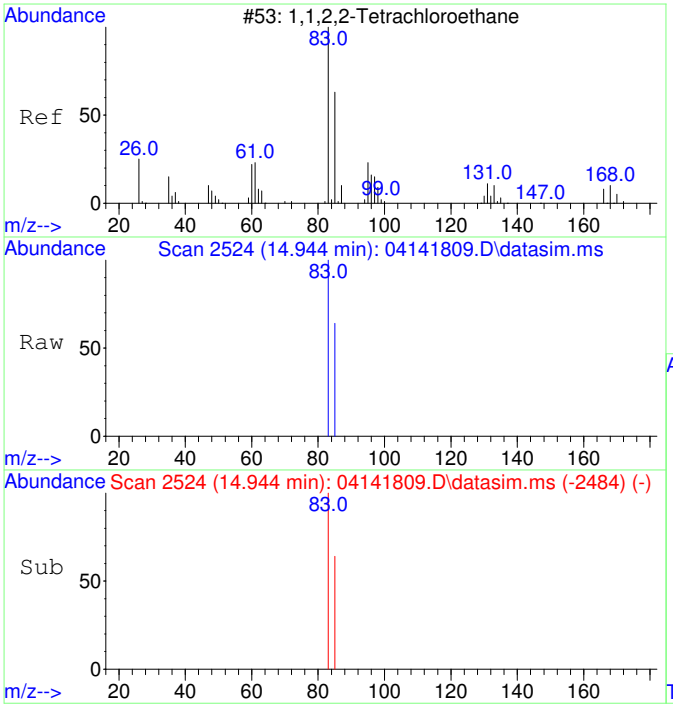


#20
o-Xylene
Concen: 4848.66 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 177919

Ion	Ratio	Lower	Upper
91	100		
106	47.4	16.9	76.9

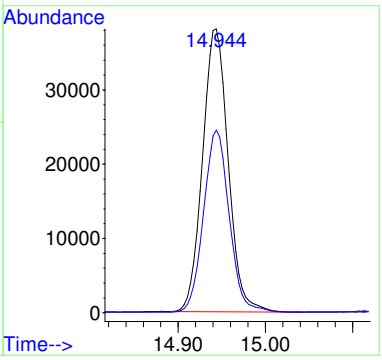


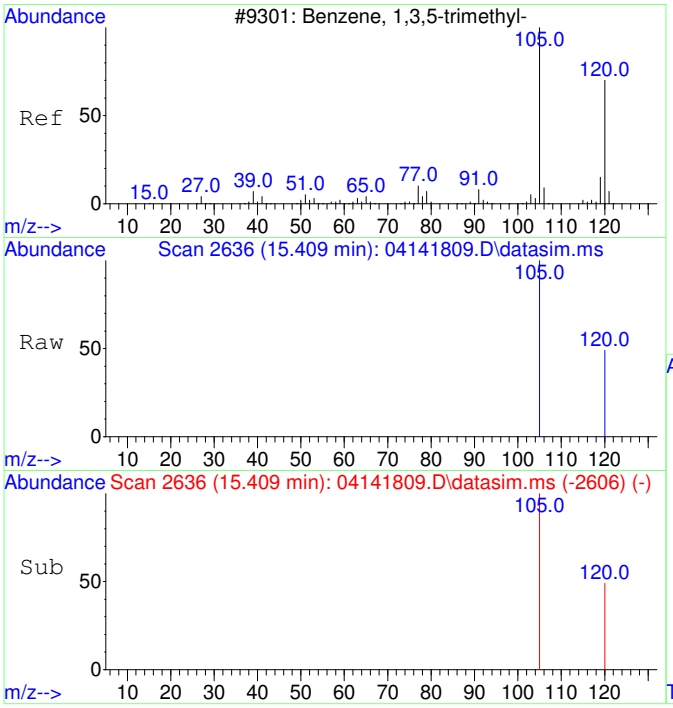


#21
1,1,2,2-Tetrachloroethane
Concen: 4566.99 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 77783

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.3	94.3

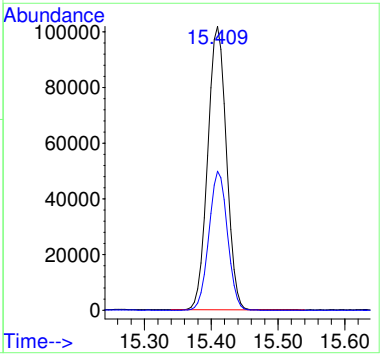


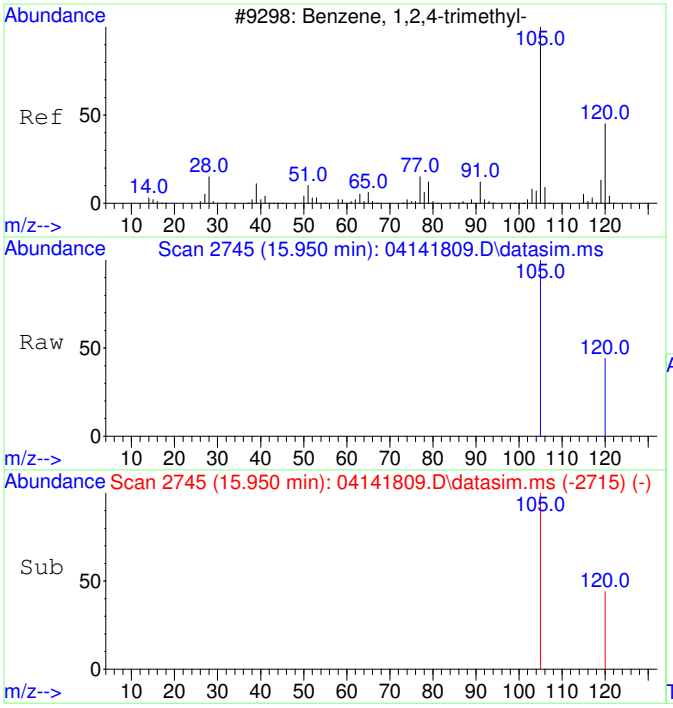


#22
1,3,5-Trimethylbenzene
Concen: 4613.08 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 198123

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.1	78.1

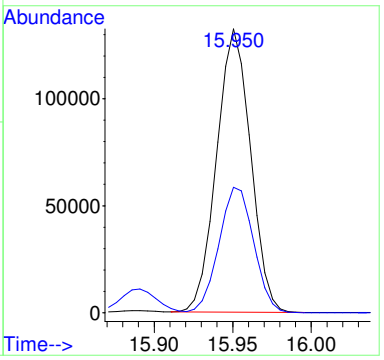


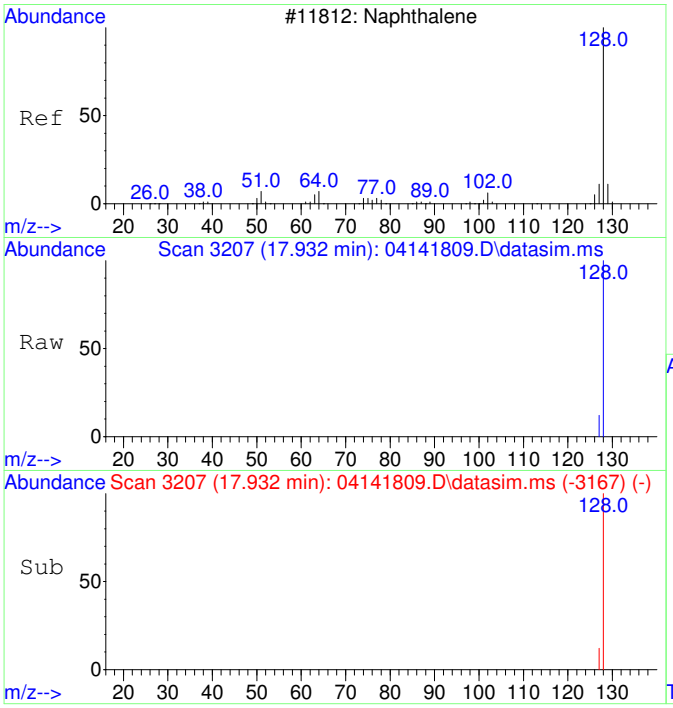


#23
1,2,4-Trimethylbenzene
Concen: 4532.74 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 198024

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.5	74.5

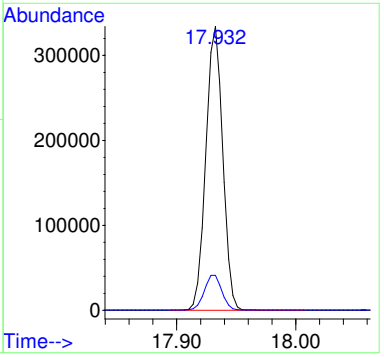


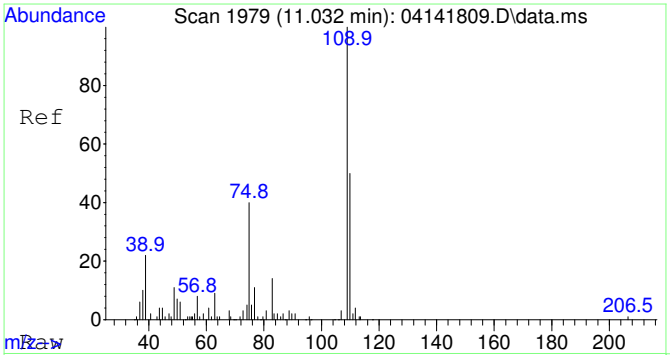


#24
Naphthalene
Concen: 4346.24 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:128 Resp: 328706

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.7

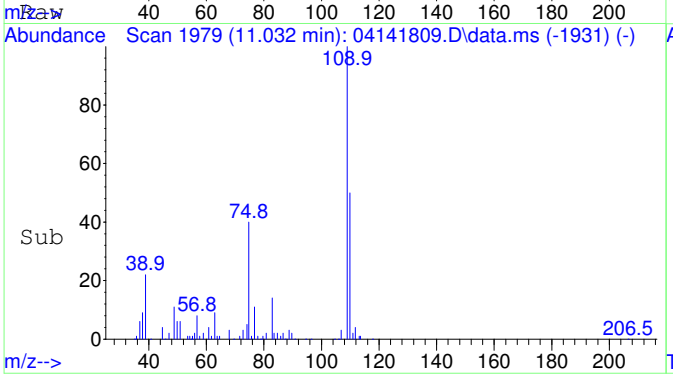


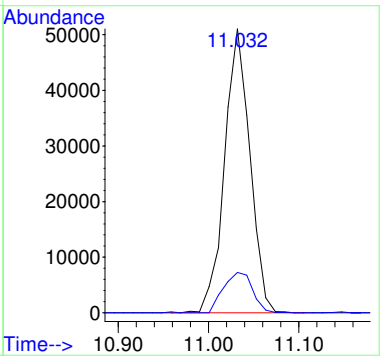


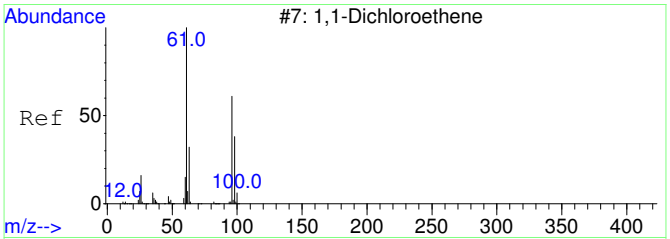
#25
2-Fluorotoluene SCAN
Concen: 5570.54 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

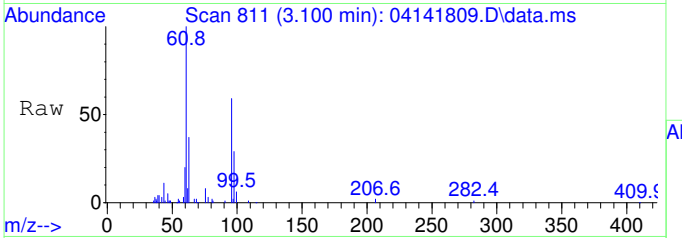
Tgt Ion:109 Resp: 99886

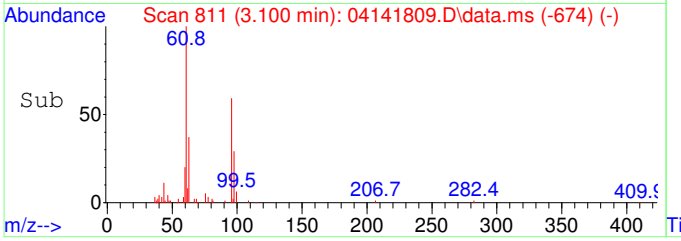
Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	49.2







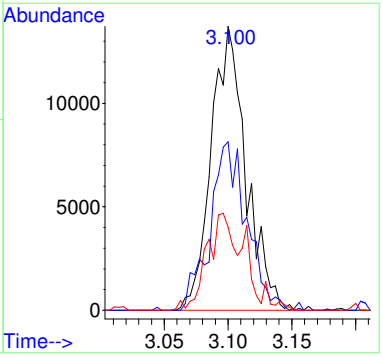


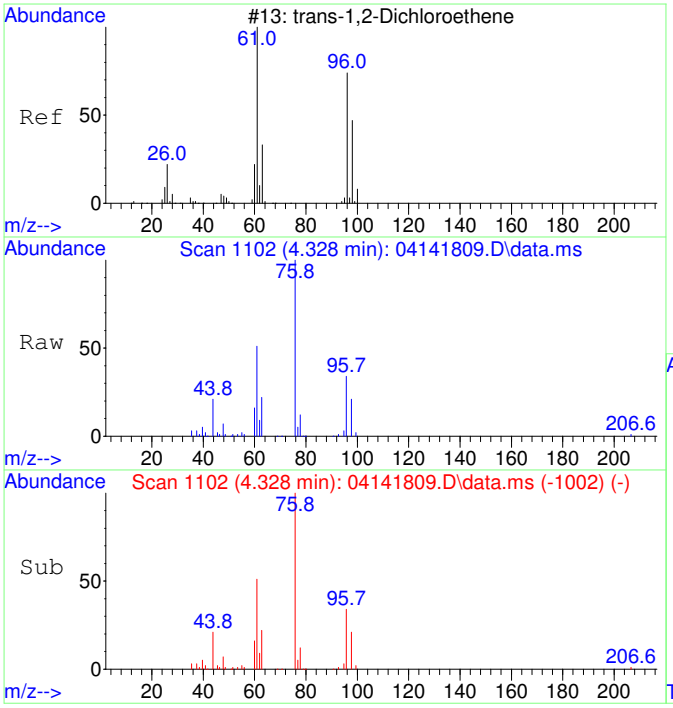


#26
1,1-Dichloroethene SCAN
Concen: 6555.98 ug/L
RT: 3.100 min Scan# 811
Delta R.T. 0.008 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 26054

Ion	Ratio	Lower	Upper
61	100		
96	62.1	21.6	81.6
98	31.9	7.5	67.5

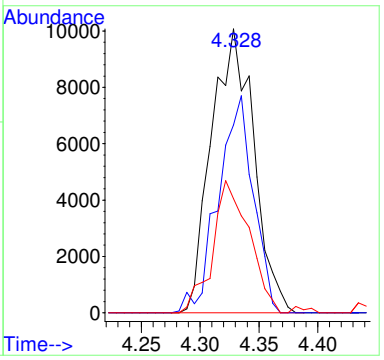


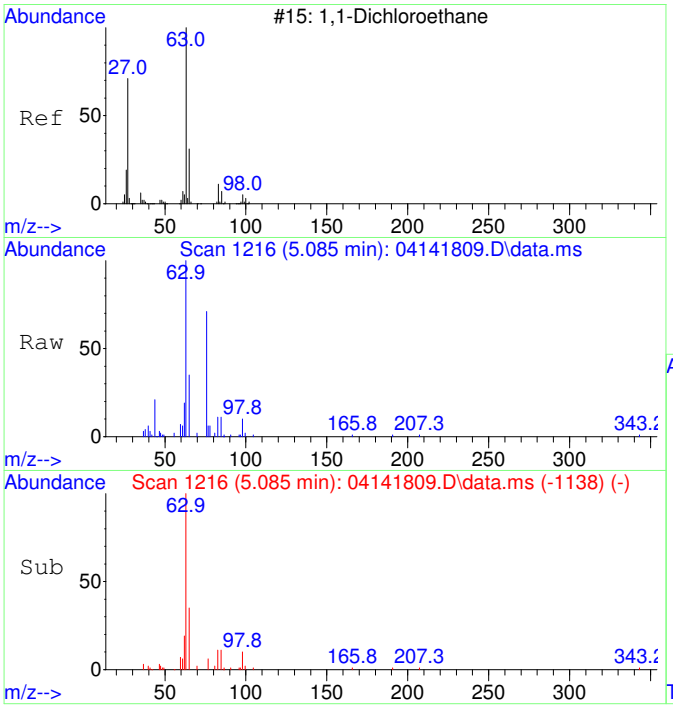


#27
trans-1,2-Dichloroethene SCAN
Concen: 6461.42 ug/L
RT: 4.328 min Scan# 1102
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 25160

Ion	Ratio	Lower	Upper
61	100		
96	63.4	51.8	111.8
98	40.3	22.7	82.7

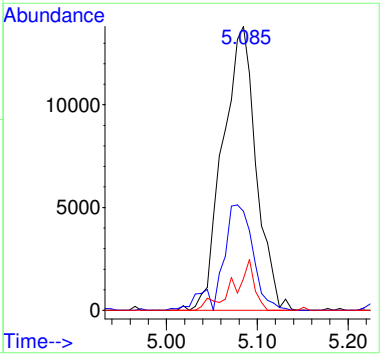


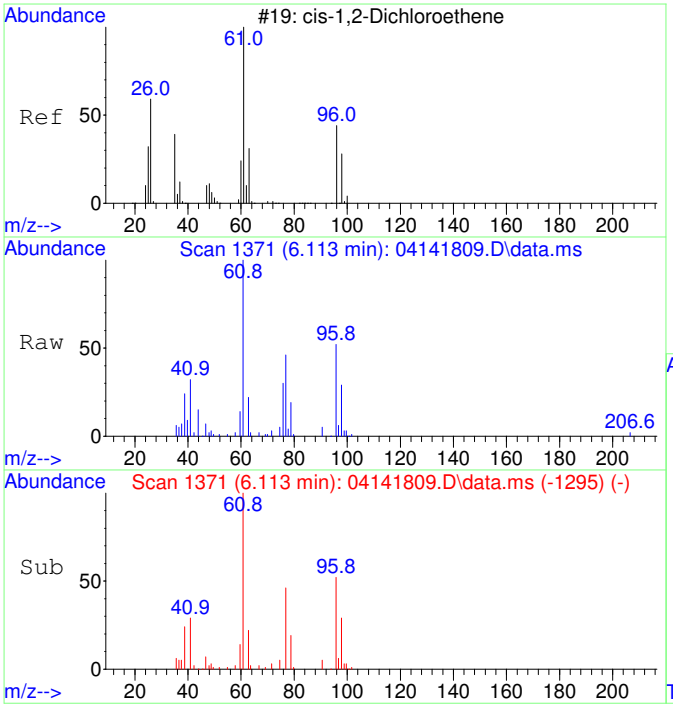


#28
1,1-Dichloroethane SCAN
Concen: 5930.41 ug/L
RT: 5.085 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 63 Resp: 35334

Ion	Ratio	Lower	Upper
63	100		
65	34.5	2.2	62.2
83	11.2	0.0	38.2

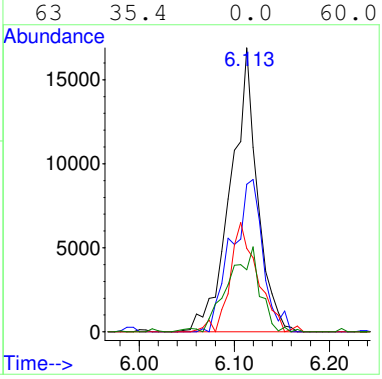


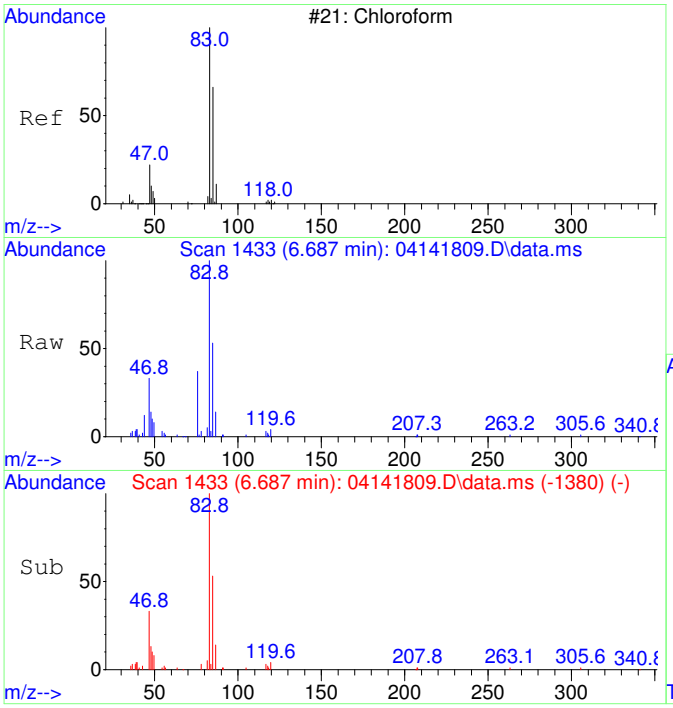


#29
cis-1,2-Dichloroethene SCAN
Concen: 7114.71 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.007 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 33275

Ion	Ratio	Lower	Upper
61	100		
96	62.1	49.4	109.4
98	37.4	9.5	69.5
63	35.4	0.0	60.0

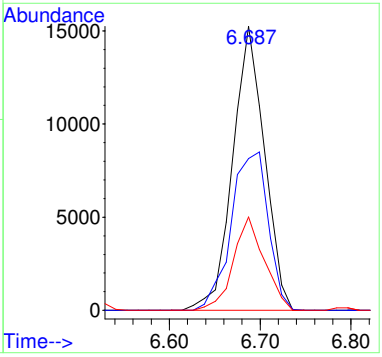


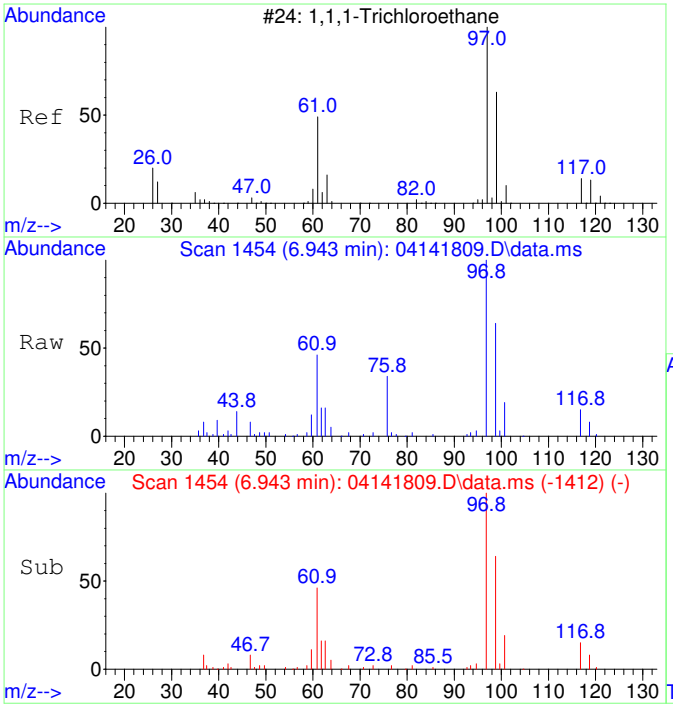


#30
Chloroform SCAN
Concen: 6576.53 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 37111

Ion	Ratio	Lower	Upper
83	100		
85	65.2	47.8	107.8
47	32.2	8.2	68.2

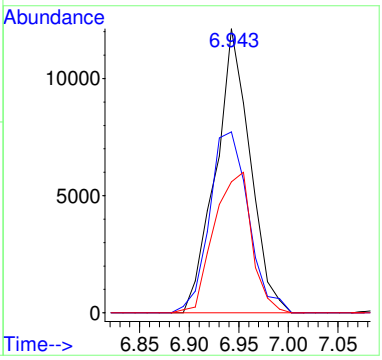


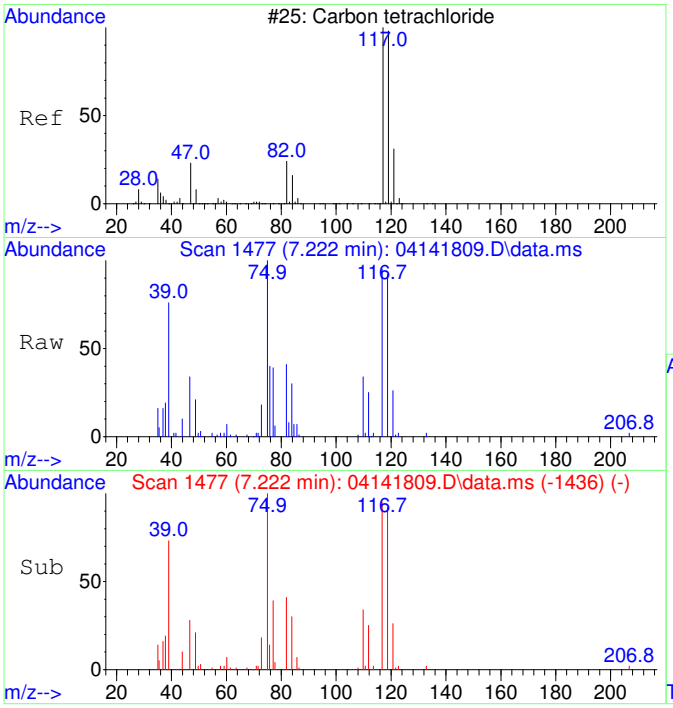


#31
1,1,1-Trichloroethane SCAN
Concen: 4146.00 ug/L
RT: 6.943 min Scan# 1454
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 29359

Ion	Ratio	Lower	Upper
97	100		
99	72.5	18.3	78.3
61	54.4	16.3	76.3

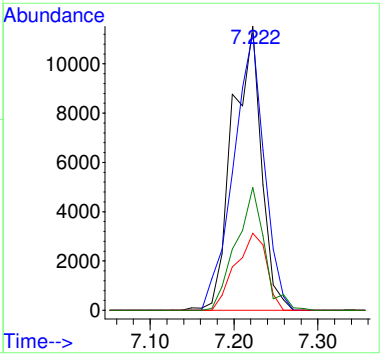


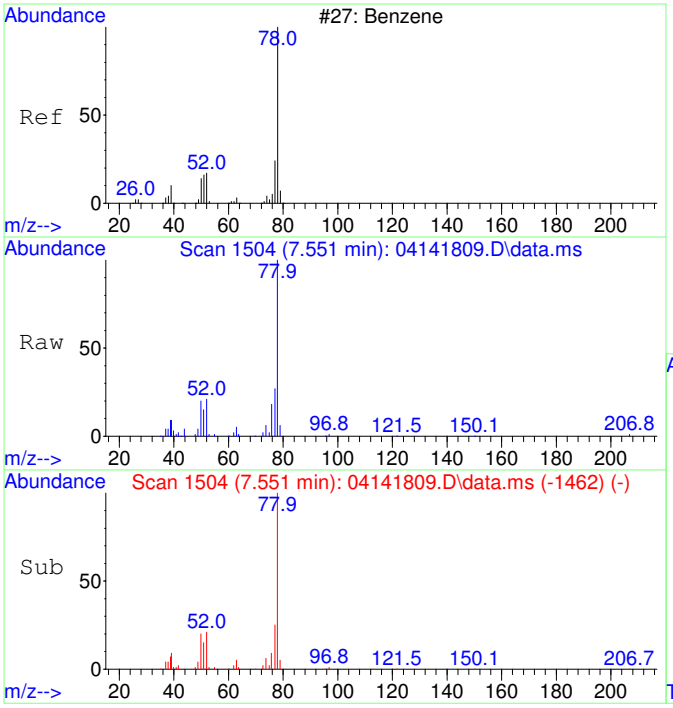


#32
Carbon tetrachloride SCAN
Concen: 5430.92 ug/L
RT: 7.222 min Scan# 1477
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:117 Resp: 27661

Ion	Ratio	Lower	Upper
117	100		
119	103.2	54.4	114.4
121	28.9	0.0	53.0
82	42.3	7.9	67.9

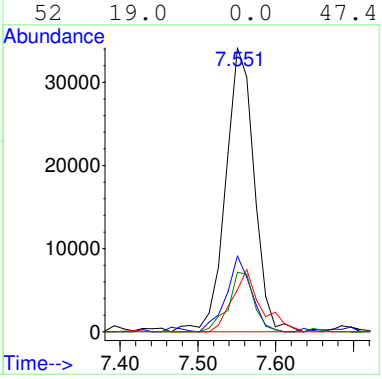


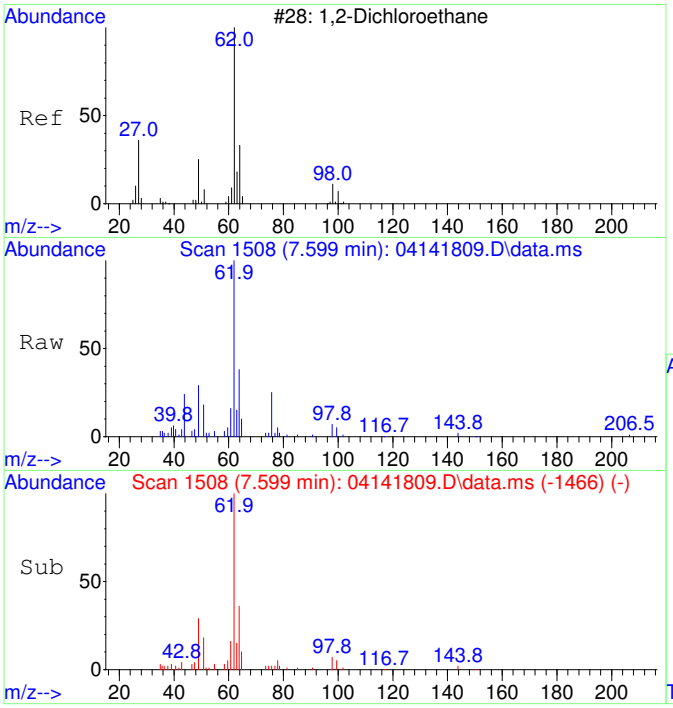


#33
Benzene SCAN
Concen: 5662.12 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 78 Resp: 87417

Ion	Ratio	Lower	Upper
78	100		
77	23.3	5.4	65.4
51	21.6	0.0	47.2
52	19.0	0.0	47.4

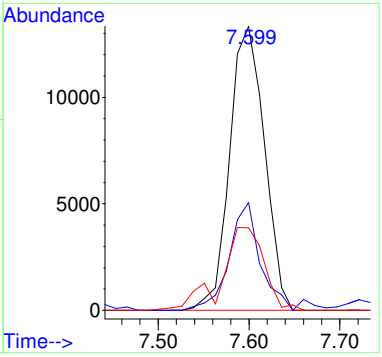


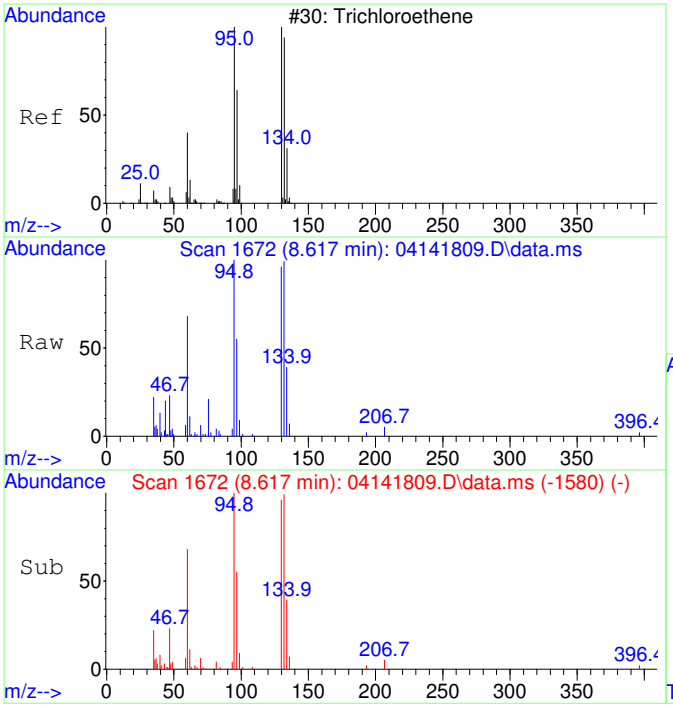


#34
1,2-Dichloroethane SCAN
Concen: 6073.67 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 62 Resp: 35556

Ion	Ratio	Lower	Upper
62	100		
64	33.6	4.4	64.4
49	35.4	1.2	61.2

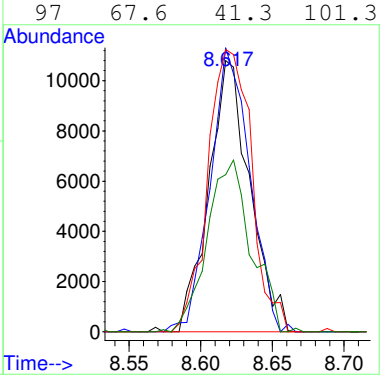


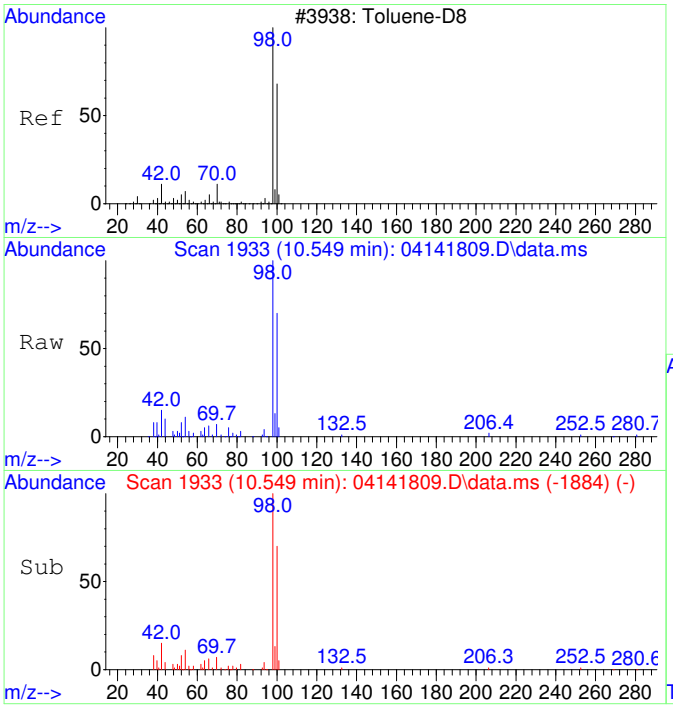


#35
Trichloroethene SCAN
Concen: 5566.94 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:130 Resp: 21594

Ion	Ratio	Lower	Upper
130	100		
95	100.7	71.3	131.3
132	110.2	75.1	135.1
97	67.6	41.3	101.3

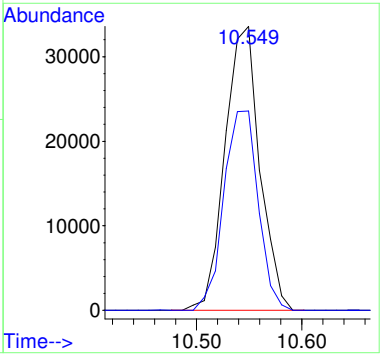


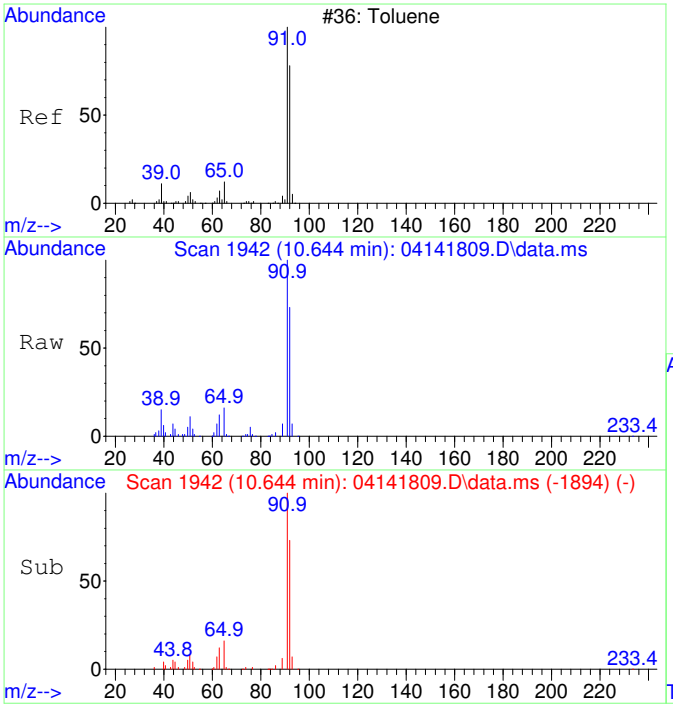


#36
Toluene-d8 SCAN
Concen: 4917.81 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 98 Resp: 77424

Ion	Ratio	Lower	Upper
98	100		
100	69.3	37.3	97.3

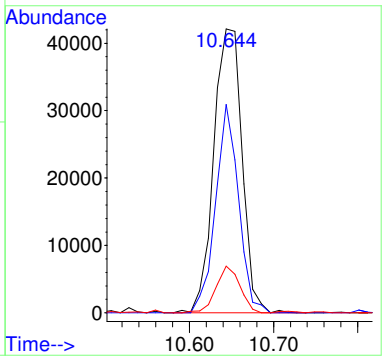


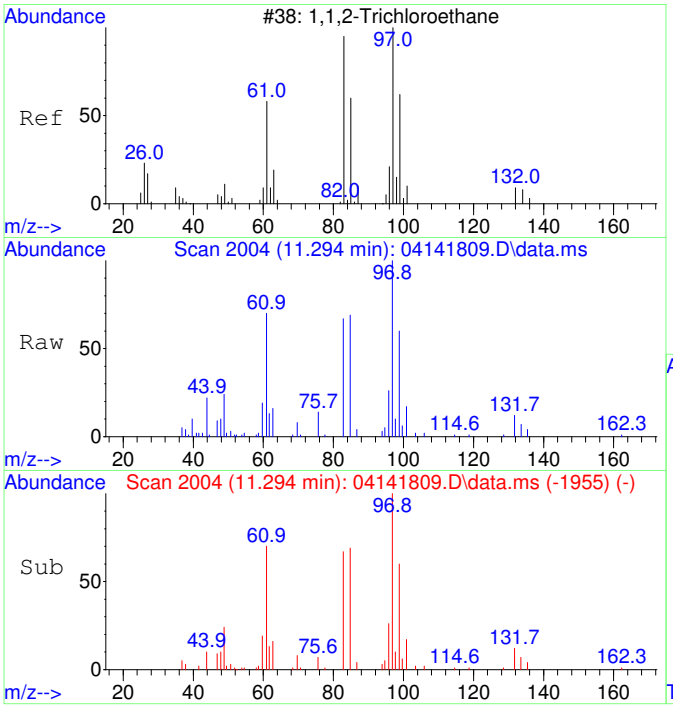


#37
Toluene SCAN
Concen: 5596.82 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 98546

Ion	Ratio	Lower	Upper
91	100		
92	59.5	39.1	99.1
65	14.0	0.0	43.8

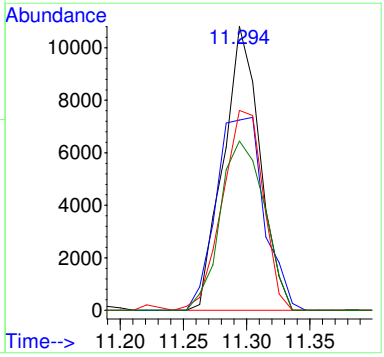


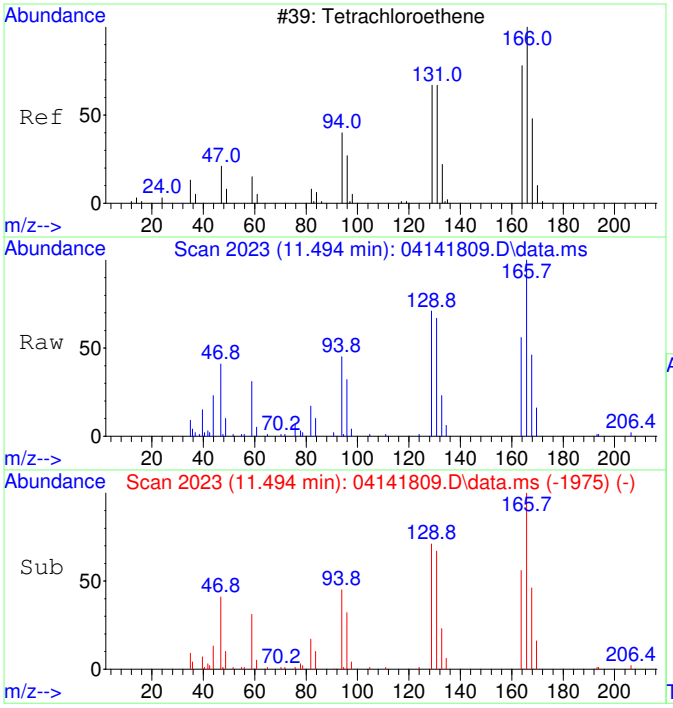


#38
1,1,2-Trichloroethane SCAN
Concen: 4045.97 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 21817

Ion	Ratio	Lower	Upper
97	100		
83	88.9	47.4	107.4
61	78.5	29.7	89.7
99	72.1	26.5	86.5

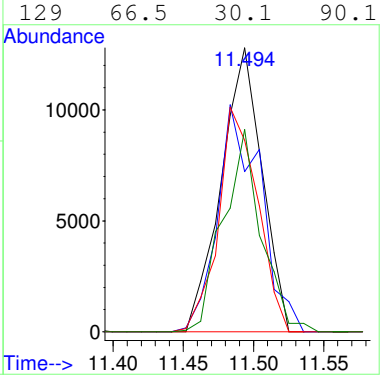


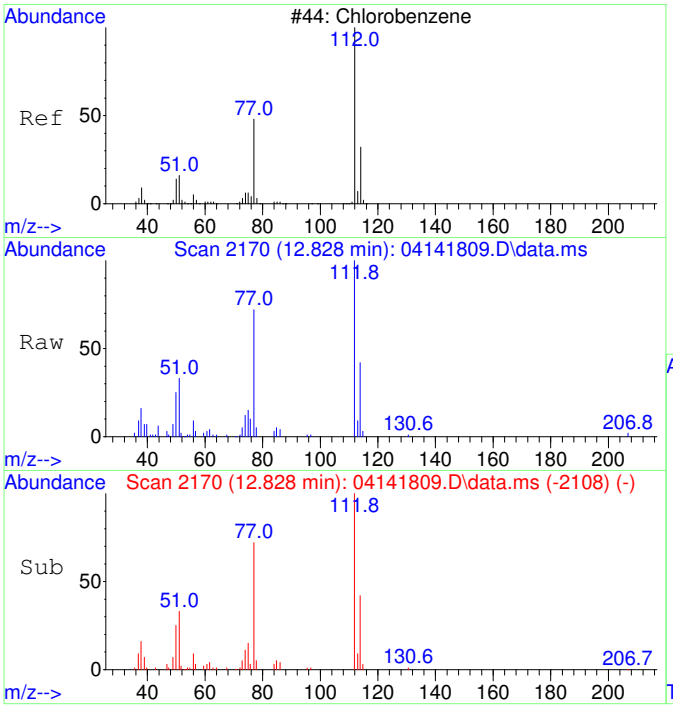


#39
Tetrachloroethene SCAN
Concen: 4540.51 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:166 Resp: 26072

Ion	Ratio	Lower	Upper
166	100		
164	84.2	49.8	109.8
131	75.7	42.0	102.0
129	66.5	30.1	90.1

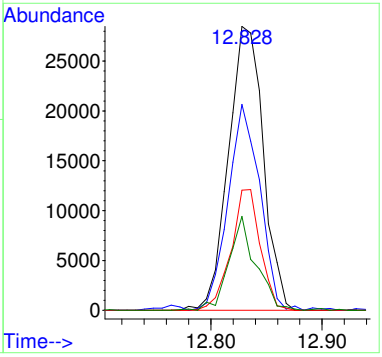


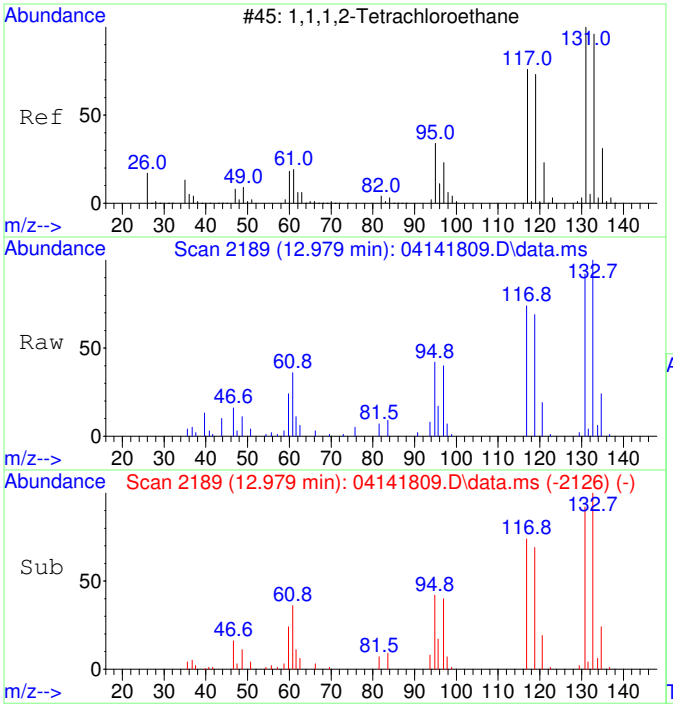


#40
Chlorobenzene SCAN
Concen: 4480.11 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.008 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:112 Resp: 61991

Ion	Ratio	Lower	Upper
112	100		
77	66.1	39.7	99.7
114	35.9	1.2	61.2
51	25.6	0.0	57.1

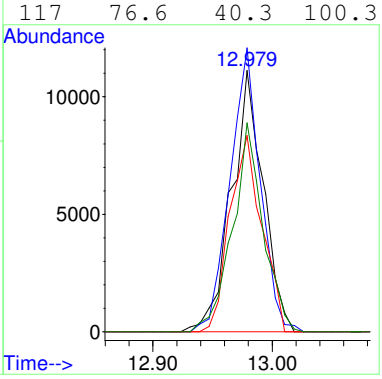


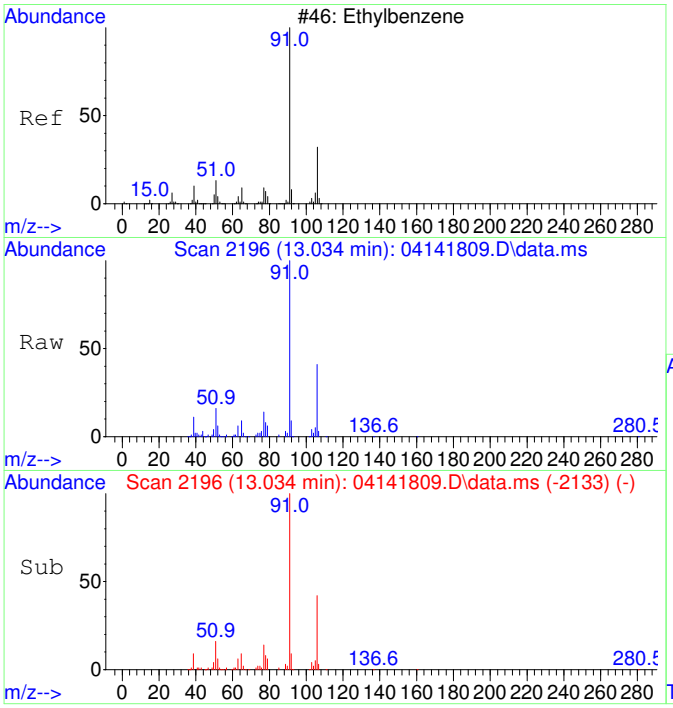


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4601.64 ug/L
RT: 12.979 min Scan# 2189
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:131 Resp: 20700

Ion	Ratio	Lower	Upper
131	100		
133	103.4	78.7	138.7
119	75.4	43.0	103.0
117	76.6	40.3	100.3

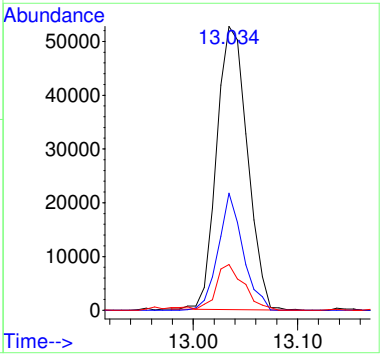


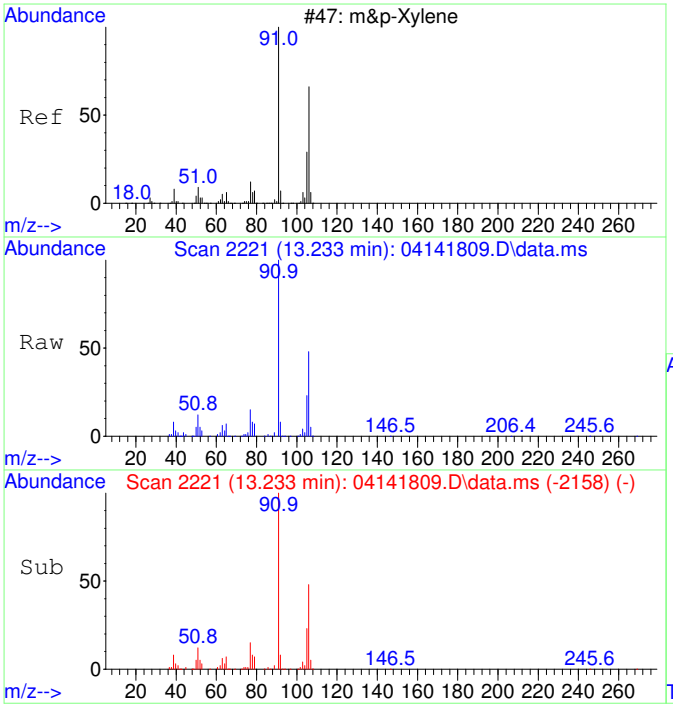


#42
Ethylbenzene SCAN
Concen: 4657.50 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 107495

Ion	Ratio	Lower	Upper
91	100		
106	33.5	1.8	61.8
51	14.7	0.0	45.4

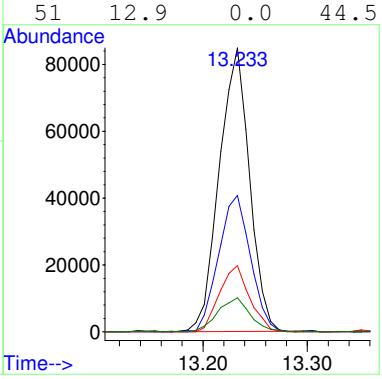


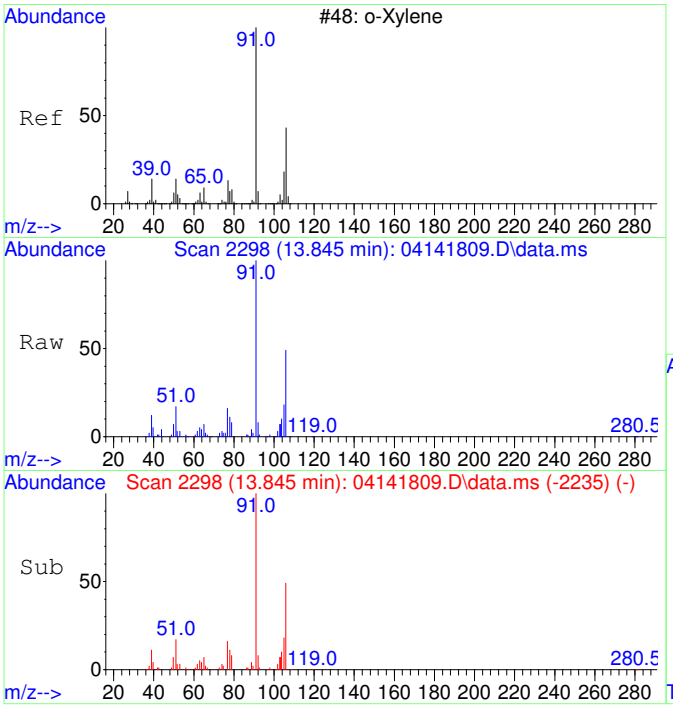


#43
m&p-Xylene SCAN
Concen: 4538.00 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 170448

Ion	Ratio	Lower	Upper
91	100		
106	50.9	14.6	74.6
105	23.3	0.0	52.8
51	12.9	0.0	44.5

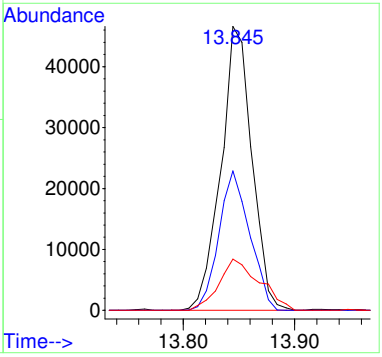


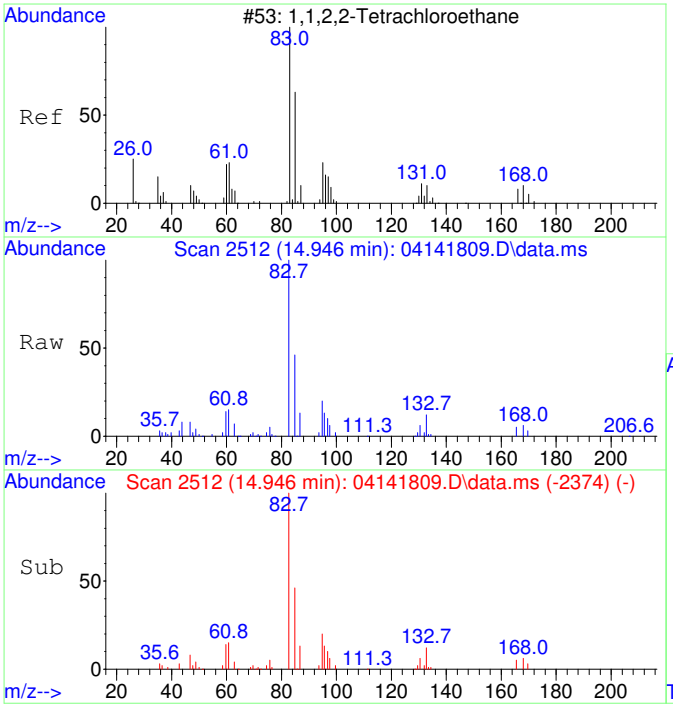


#44
o-Xylene SCAN
Concen: 4438.57 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 90273

Ion	Ratio	Lower	Upper
91	100		
106	48.9	20.2	80.2
105	23.7	0.0	54.9

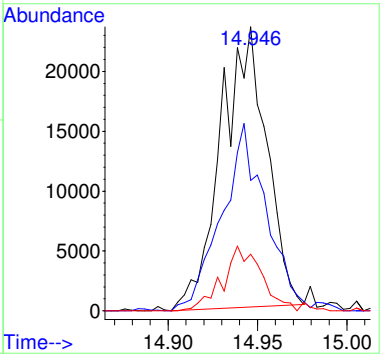


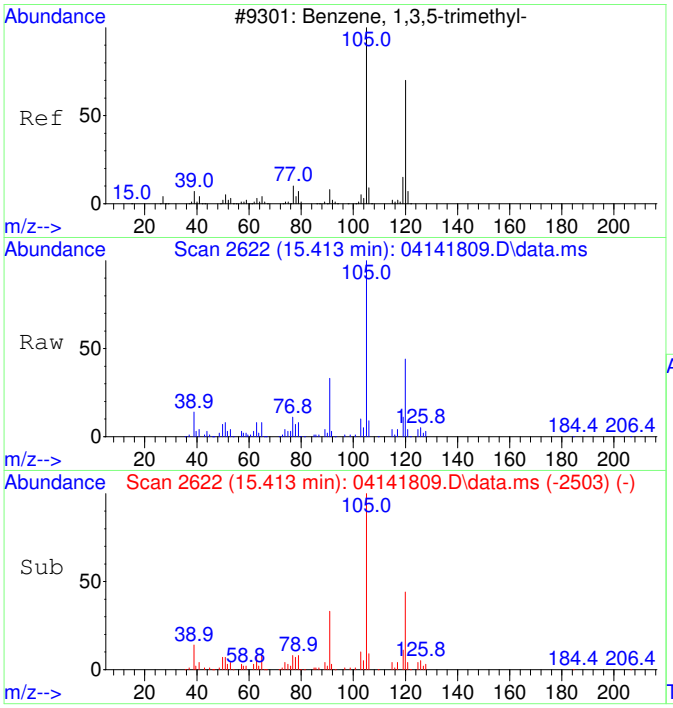


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 3921.65 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 41748

Ion	Ratio	Lower	Upper
83	100		
85	63.1	32.4	92.4
95	19.4	0.0	41.2

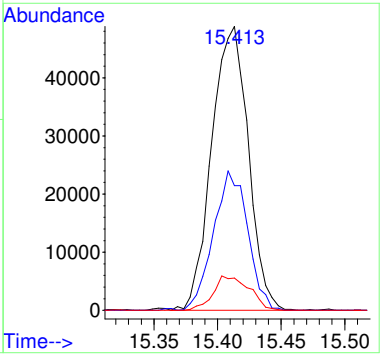


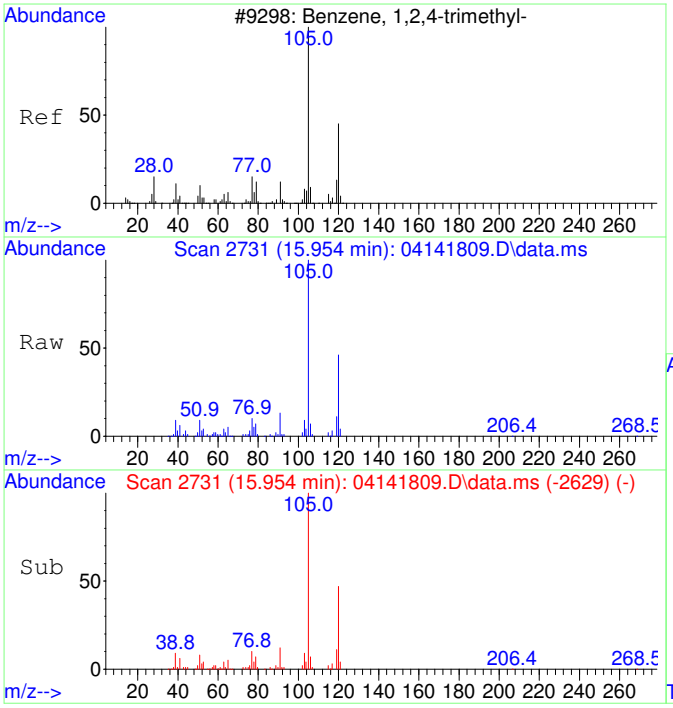


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4204.93 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 98297

Ion	Ratio	Lower	Upper
105	100		
120	46.1	16.1	76.1
119	11.9	0.0	41.8

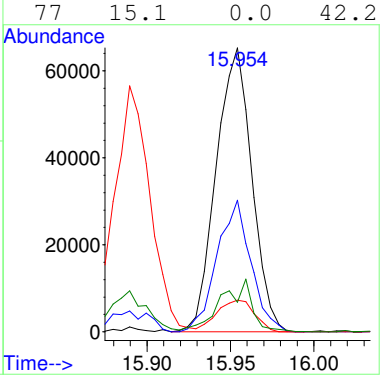


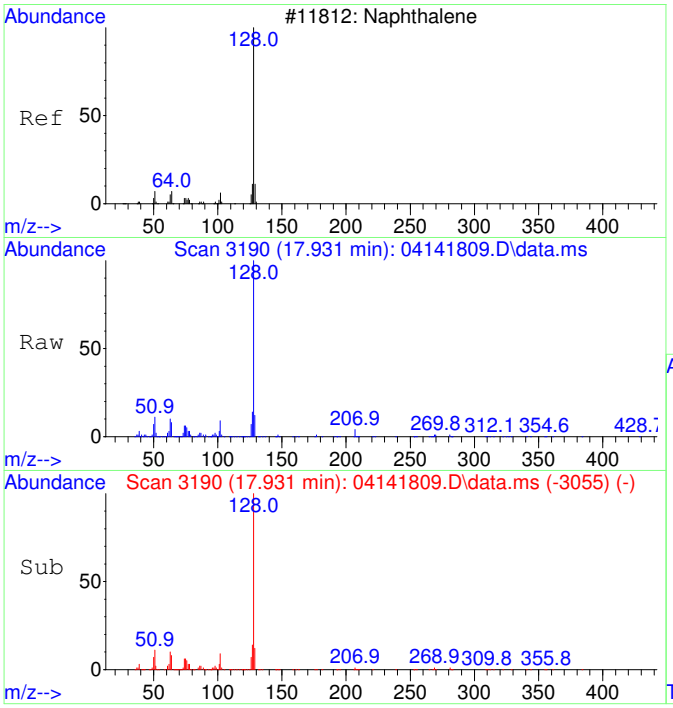


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4114.40 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.006 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 96950

Ion	Ratio	Lower	Upper
105	100		
120	44.0	12.8	72.8
119	10.6	0.0	42.5
77	15.1	0.0	42.2

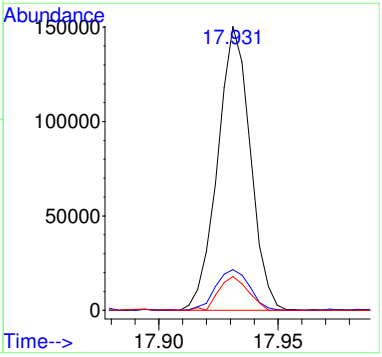


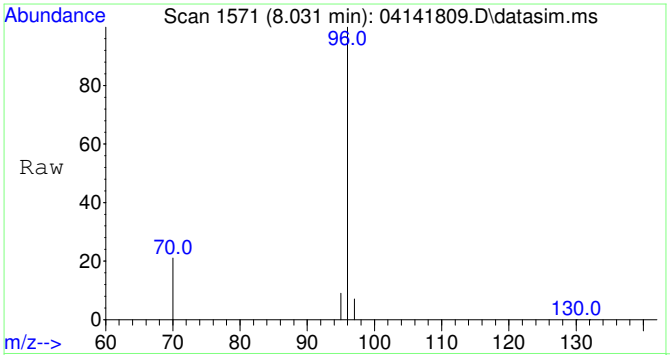


#48
Naphthalene SCAN
Concen: 3785.10 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:128 Resp: 143705

Ion	Ratio	Lower	Upper
128	100		
127	14.8	0.0	45.2
129	10.6	0.0	42.0

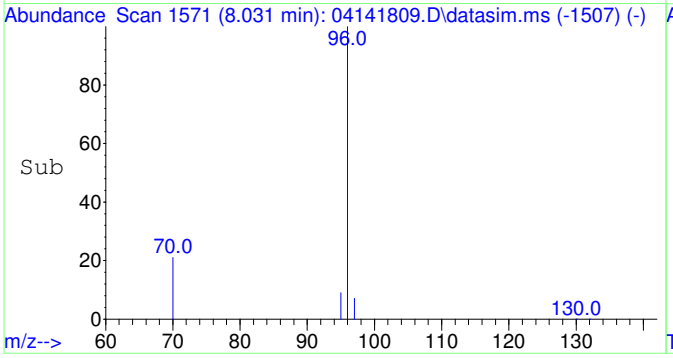


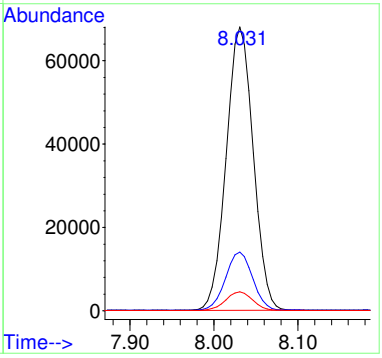


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.031 min Scan# 1571
Delta R.T. 0.006 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 96 Resp: 151656

Ion	Ratio	Lower	Upper
96	100		
70	20.5	0.0	50.7
97	6.6	0.0	36.7





B18D036-BLK1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141810.D
Acq On : 14 Apr 2018 14:25
InstName : AG5975C
Operator : RH
Sample : B18D036-BLK1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 16 09:37:58 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

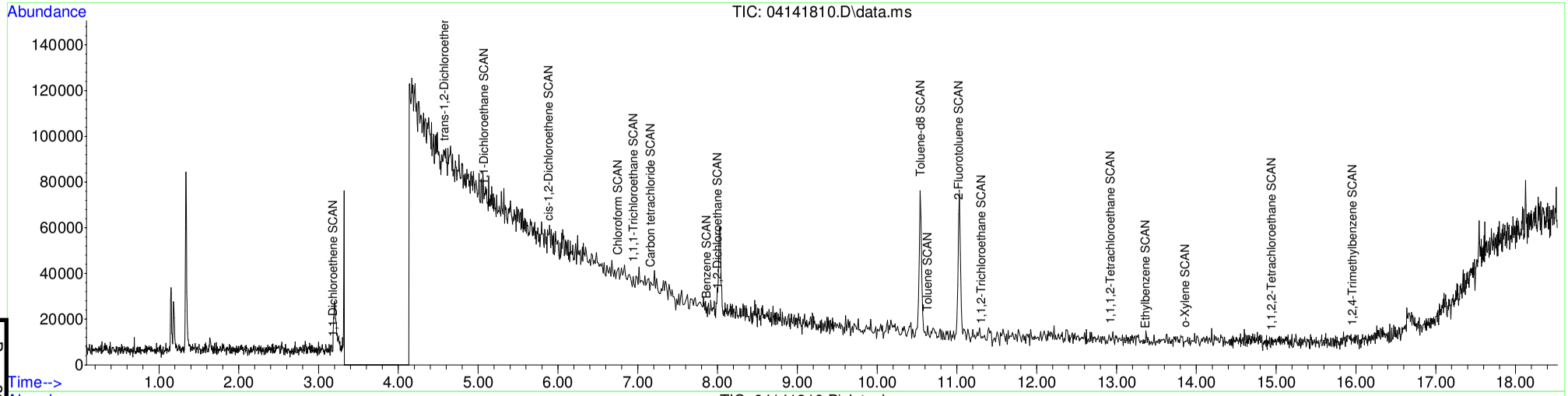
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	97999	5000.00	ug/L	0.00
49) Fluorobenzene	8.025	96	65612	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	85438	5194.16	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.88%			
Target Compounds						Qvalue
9] Benzene	7.540	78	596	37.97	ug/L #	52
13] Toluene	10.634	91	678	32.75	ug/L	96
19] m&p-Xylene	13.226	91	650	35.35	ug/L	91
22] 1,3,5-Trimethylbenzene	15.403	105	596	26.28	ug/L	71
25) 2-Fluorotoluene SCAN	11.021	109	49599	5237.89	ug/L	86
26) 1,1-Dichloroethene SCAN	3.174	61	55	26.21	ug/L #	1
27) trans-1,2-Dichloroethe...	4.574	61	274	133.25	ug/L #	15
28) 1,1-Dichloroethane SCAN	5.071	63	90	28.60	ug/L #	49
29) cis-1,2-Dichloroethene...	5.874	61	51	20.65	ug/L #	24
30) Chloroform SCAN	6.748	83	485	162.75	ug/L #	19
31) 1,1,1-Trichloroethane ...	6.943	97	473	126.49	ug/L #	29
32) Carbon tetrachloride SCAN	7.161	117	389	144.63	ug/L #	38
33) Benzene SCAN	7.855	78	562	68.93	ug/L	67
34) 1,2-Dichloroethane SCAN	7.991	62	109	35.26	ug/L #	1
36) Toluene-d8 SCAN	10.539	98	45992	5531.84	ug/L	96
37) Toluene SCAN	10.633	91	1089	117.12	ug/L #	25
38) 1,1,2-Trichloroethane ...	11.305	97	158	55.49	ug/L #	17
41) 1,1,1,2-Tetrachloroeth...	12.915	131	143	60.20	ug/L #	6
42) Ethylbenzene SCAN	13.360	91	591	48.49	ug/L	70
44) o-Xylene SCAN	13.853	91	467	43.48	ug/L #	49
45) 1,1,2,2-Tetrachloroeth...	14.942	83	274	48.74	ug/L #	57
47) 1,2,4-Trimethylbenzene...	15.958	105	326	26.20	ug/L #	50

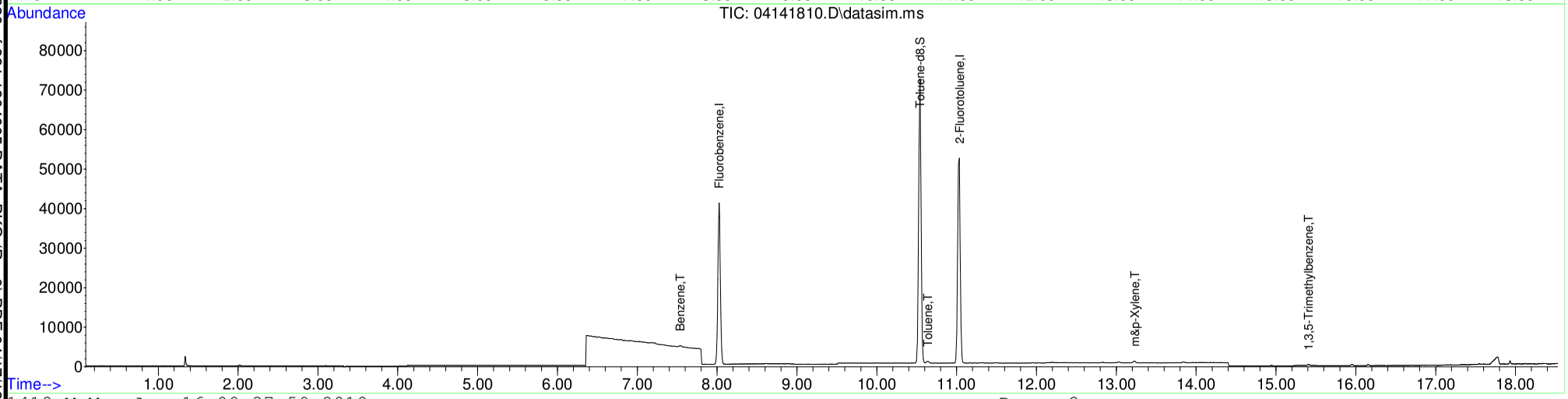
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141810.D
Acq On : 14 Apr 2018 14:25
InstName : AG5975C
Operator : RH
Sample : B18D036-BLK1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 16 09:37:58 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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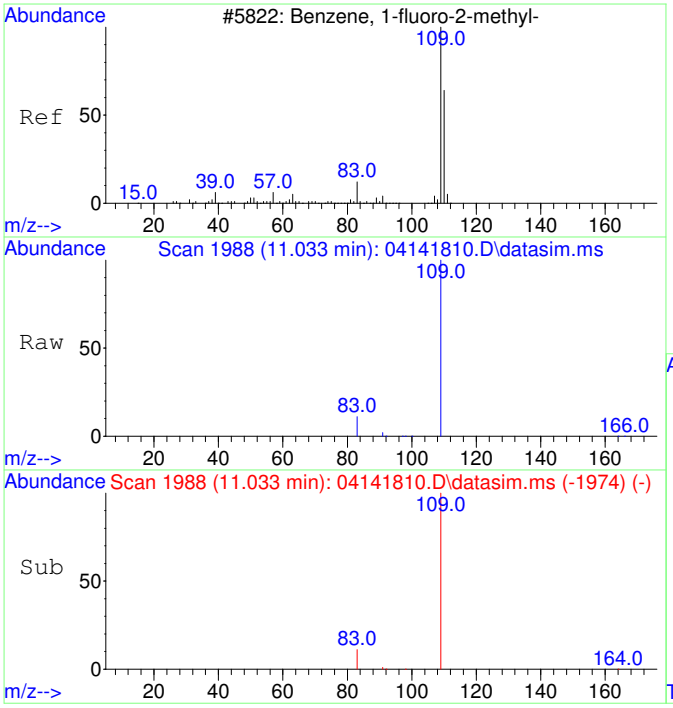
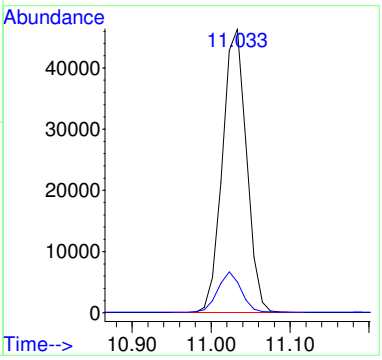
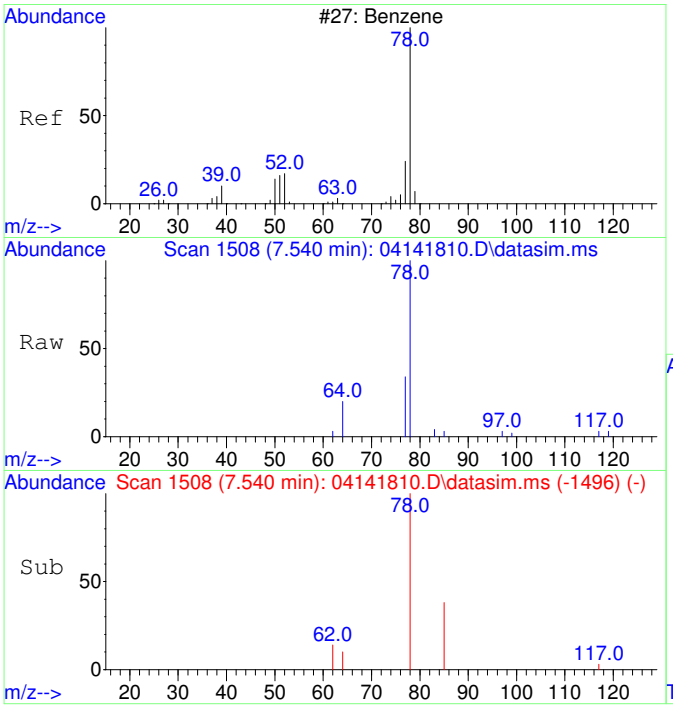


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion:109 Resp: 97999

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	44.4

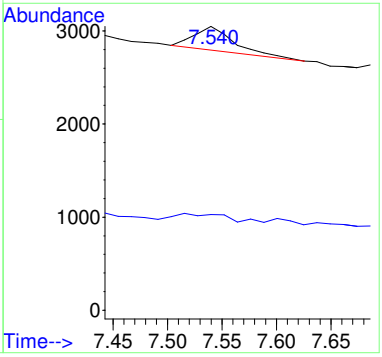


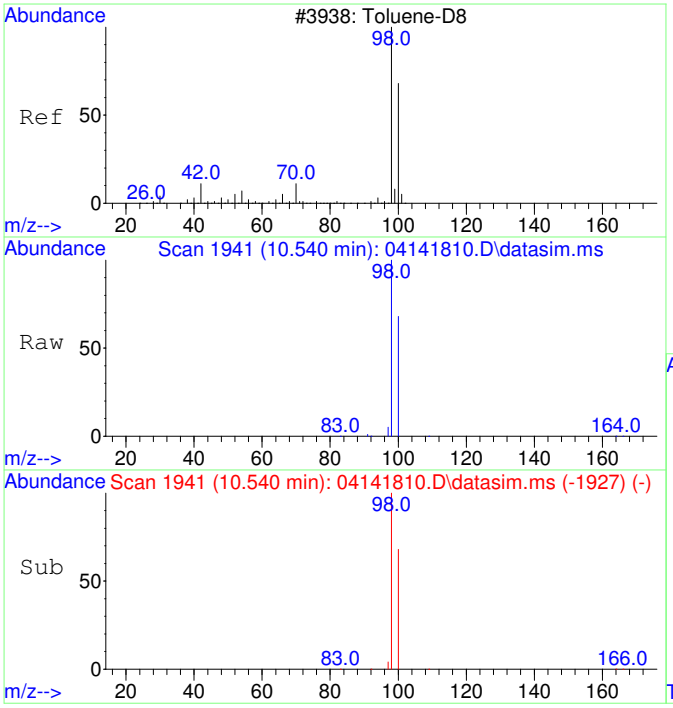


#9
Benzene
Concen: 37.97 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 78 Resp: 596

Ion	Ratio	Lower	Upper
78	100		
77	0.0	0.0	53.6

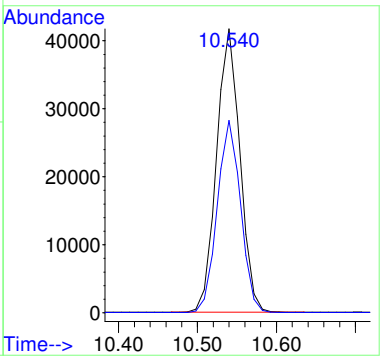


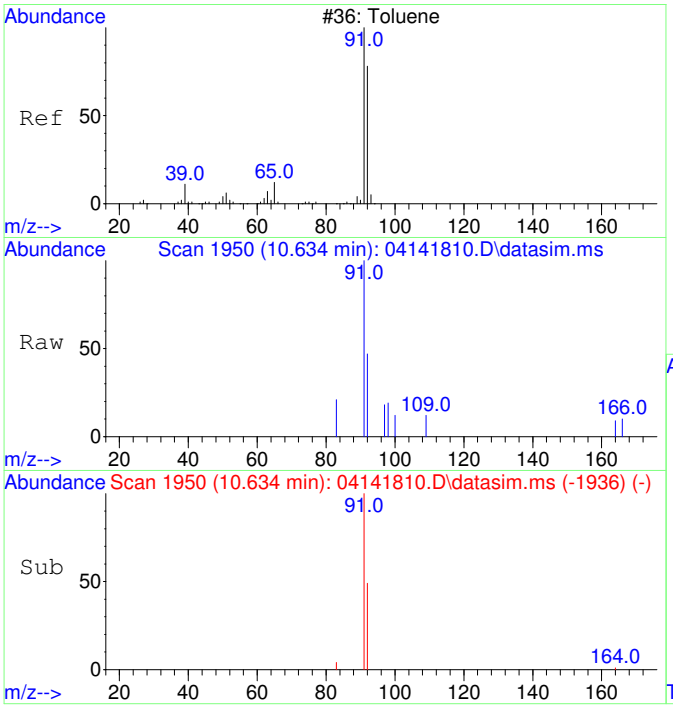


#12
Toluene-d8
Concen: 5194.16 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 98 Resp: 85438

Ion	Ratio	Lower	Upper
98	100		
100	67.4	36.9	96.9

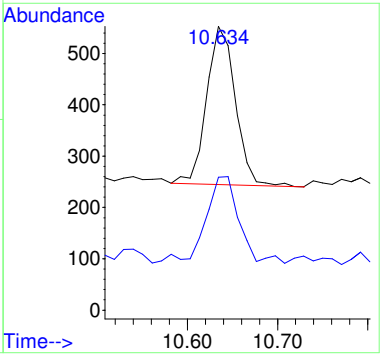


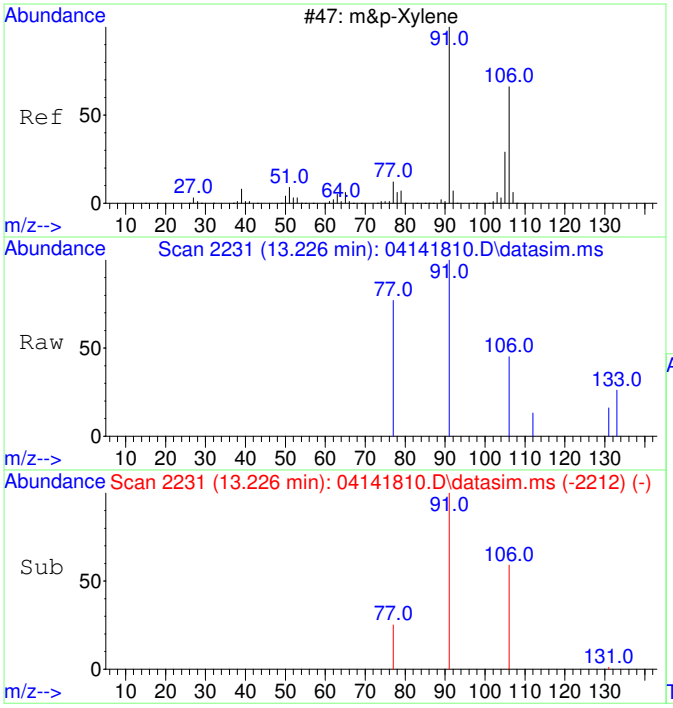


#13
Toluene
Concen: 32.75 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 91 Resp: 678

Ion	Ratio	Lower	Upper
91	100		
92	62.1	28.8	88.8

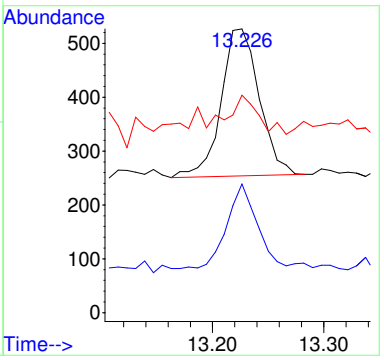


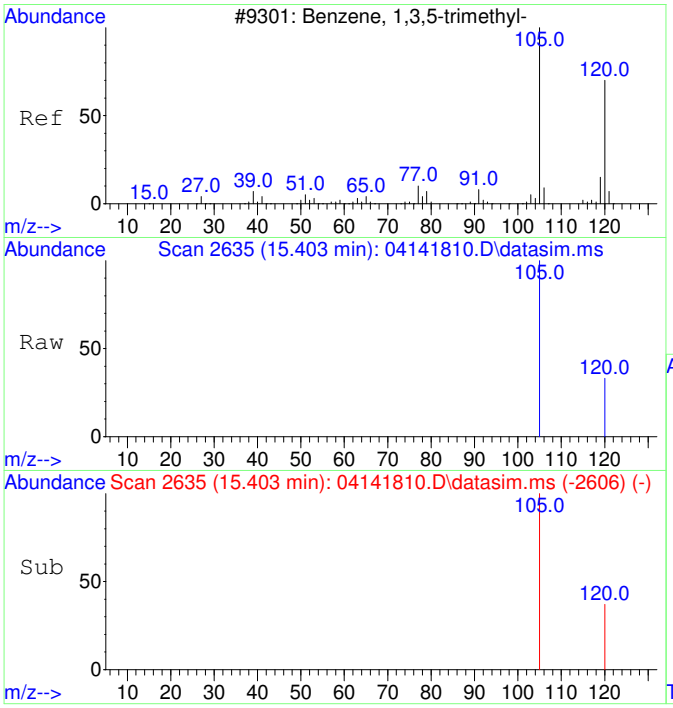


#19
m&p-Xylene
Concen: 35.35 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 91 Resp: 650

Ion	Ratio	Lower	Upper
91	100		
106	50.5	20.0	80.0
77	29.2	0.0	43.4

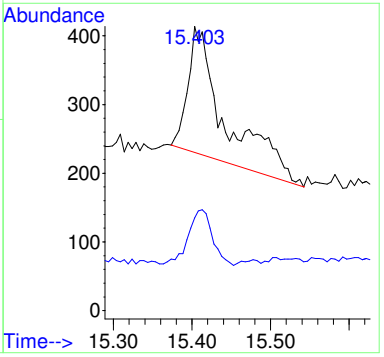


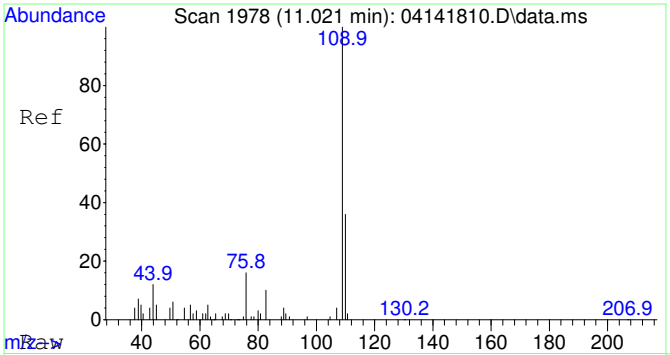


#22
1,3,5-Trimethylbenzene
Concen: 26.28 ug/L
RT: 15.403 min Scan# 2635
Delta R.T. -0.005 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion:105 Resp: 596

Ion	Ratio	Lower	Upper
105	100		
120	28.4	18.1	78.1

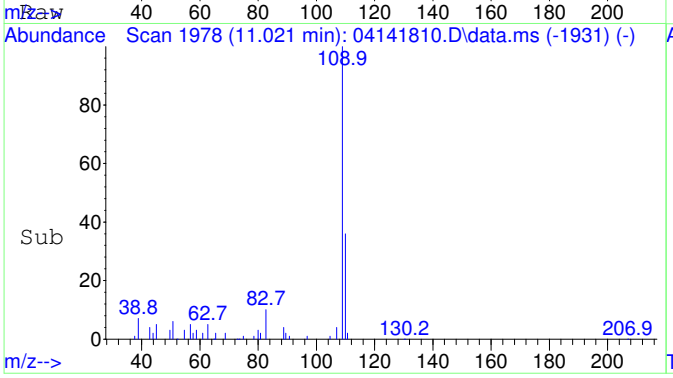


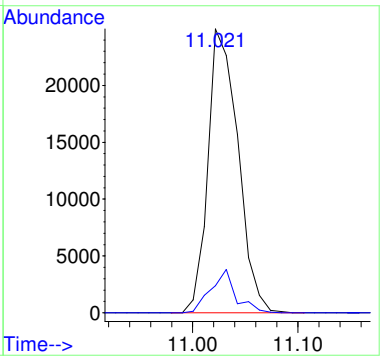


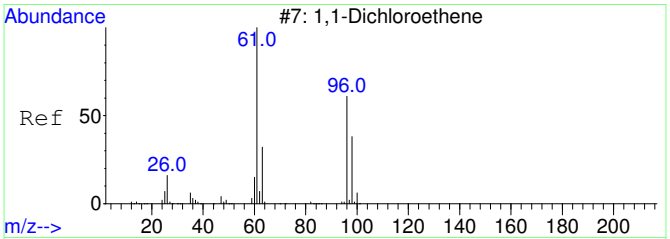
#25
2-Fluorotoluene SCAN
Concen: 5237.89 ug/L
RT: 11.021 min Scan# 1978
Delta R.T. -0.010 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion:109 Resp: 49599

Ion	Ratio	Lower	Upper
109	100		
83	12.7	0.0	49.2



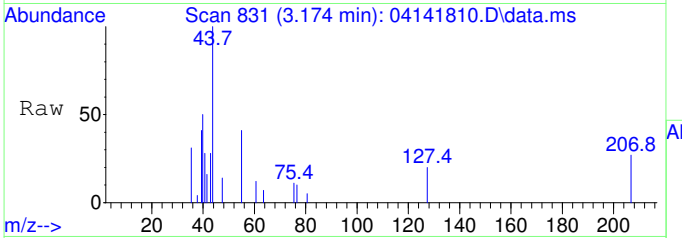


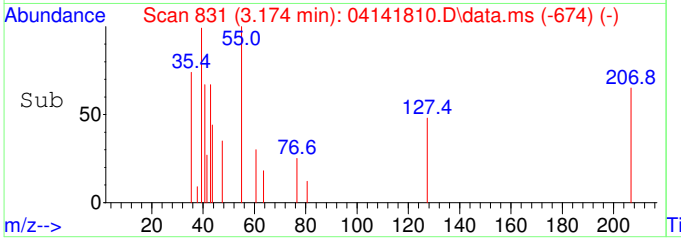


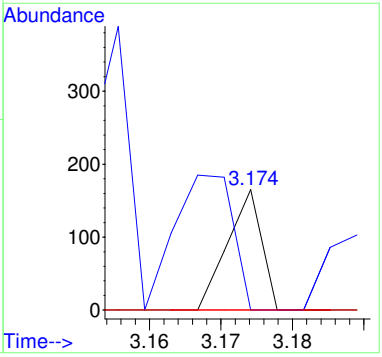
#26
1,1-Dichloroethene SCAN
Concen: 26.21 ug/L
RT: 3.174 min Scan# 831
Delta R.T. 0.082 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

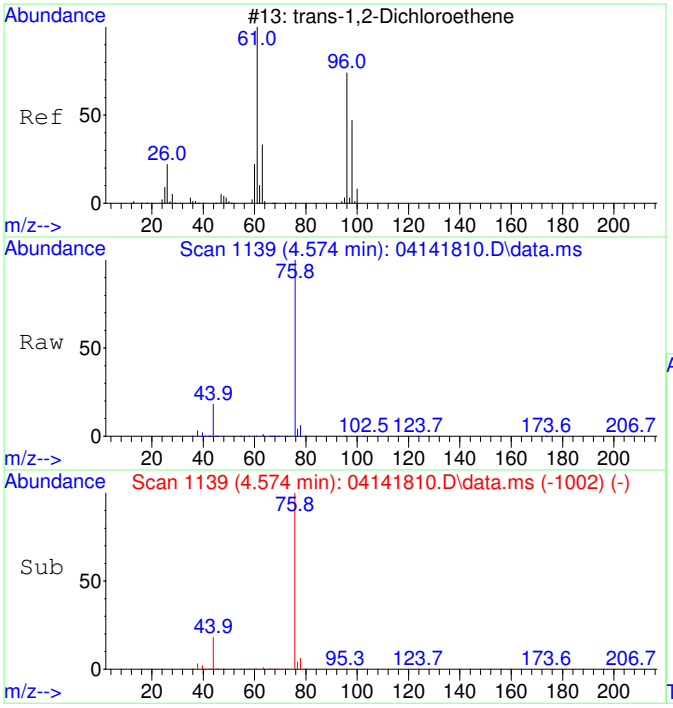
Tgt Ion: 61 Resp: 55

Ion	Ratio	Lower	Upper
61	100		
96	254.5	21.6	81.6#
98	0.0	7.5	67.5#





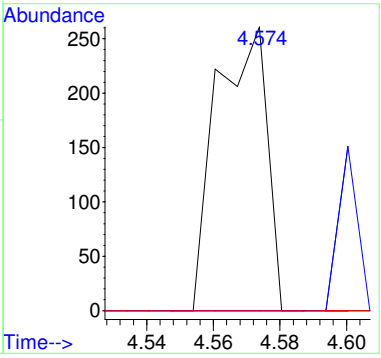


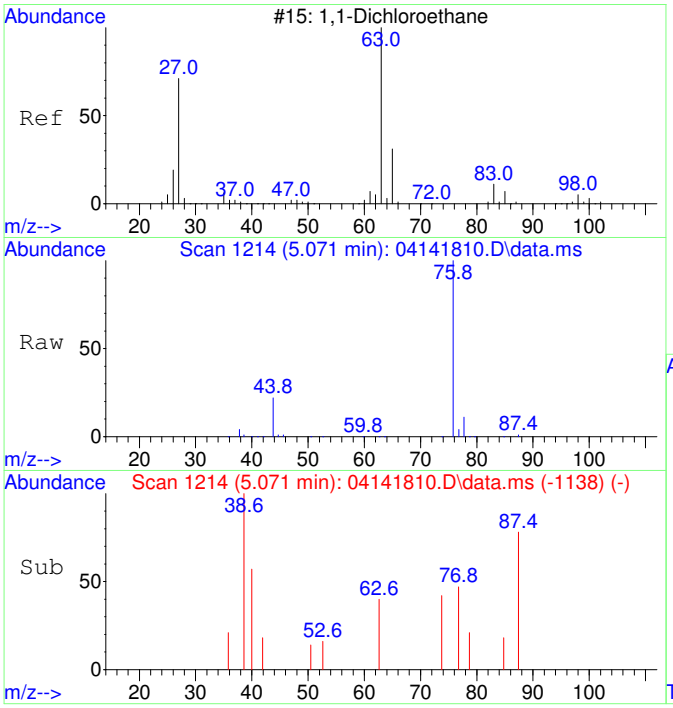


#27
trans-1,2-Dichloroethene SCAN
Concen: 133.25 ug/L
RT: 4.574 min Scan# 1139
Delta R.T. 0.265 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 61 Resp: 274

Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.8	111.8#
98	0.0	22.7	82.7#

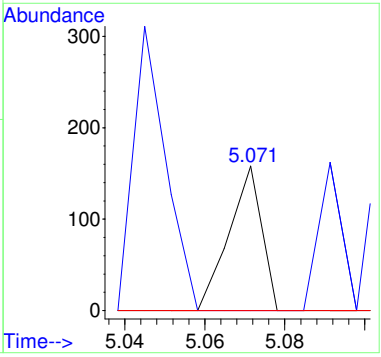


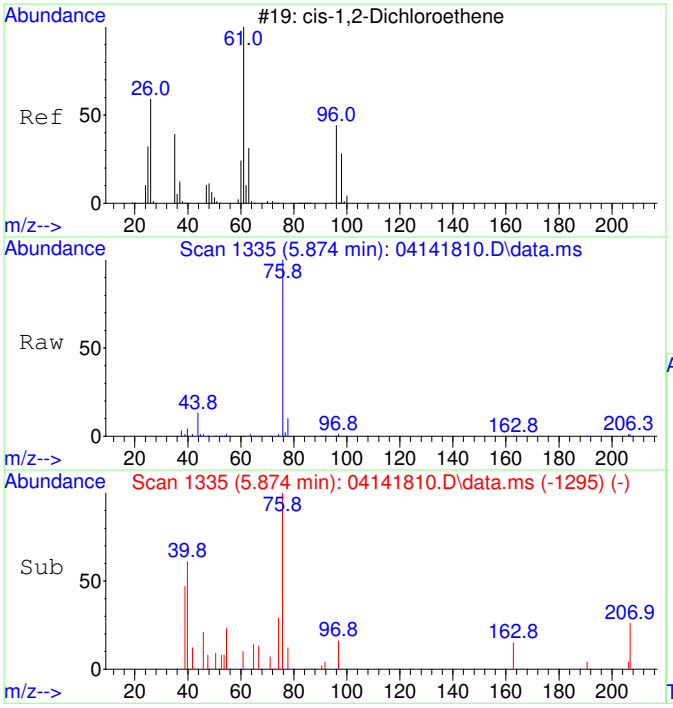


#28
1,1-Dichloroethane SCAN
Concen: 28.60 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 63 Resp: 90

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	0.0	0.0	38.2

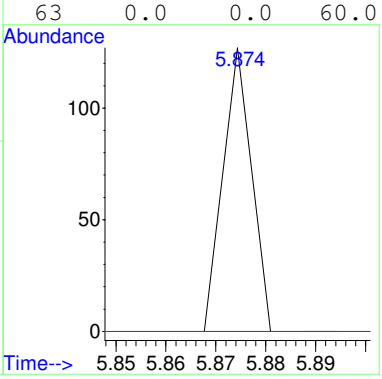


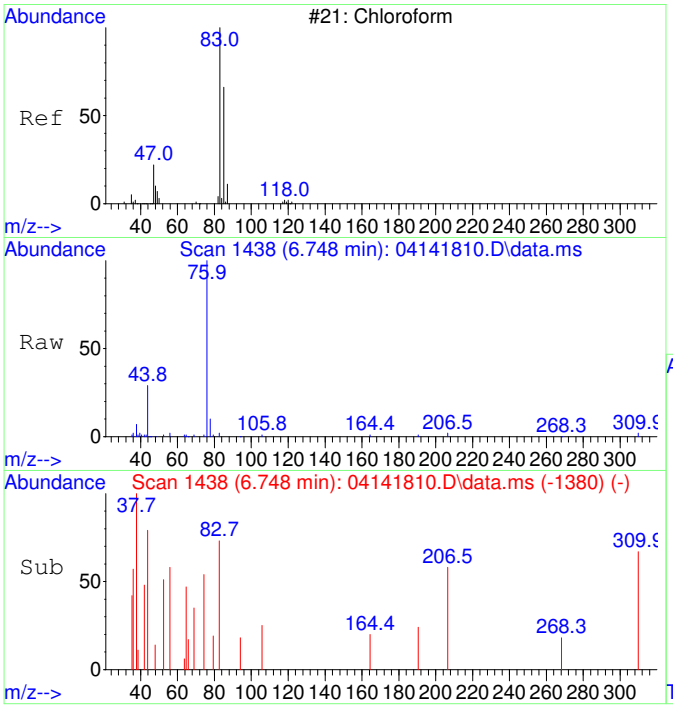


#29
cis-1,2-Dichloroethene SCAN
Concen: 20.65 ug/L
RT: 5.874 min Scan# 1335
Delta R.T. -0.232 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 61 Resp: 51

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.4	109.4#
98	0.0	9.5	69.5#
63	0.0	0.0	60.0

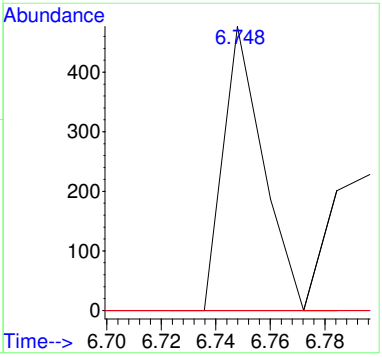


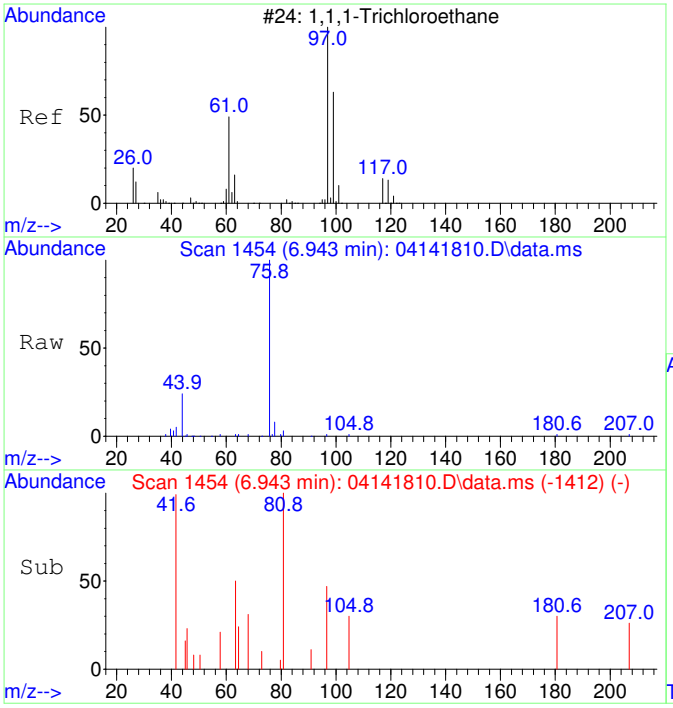


#30
Chloroform SCAN
Concen: 162.75 ug/L
RT: 6.748 min Scan# 1438
Delta R.T. 0.073 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 83 Resp: 485

Ion	Ratio	Lower	Upper
83	100		
85	0.0	47.8	107.8#
47	0.0	8.2	68.2#

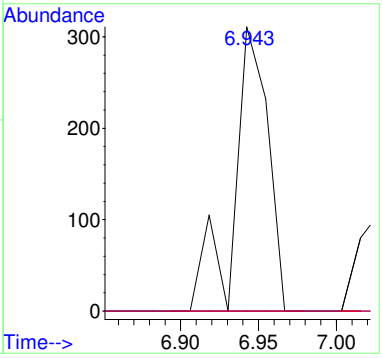


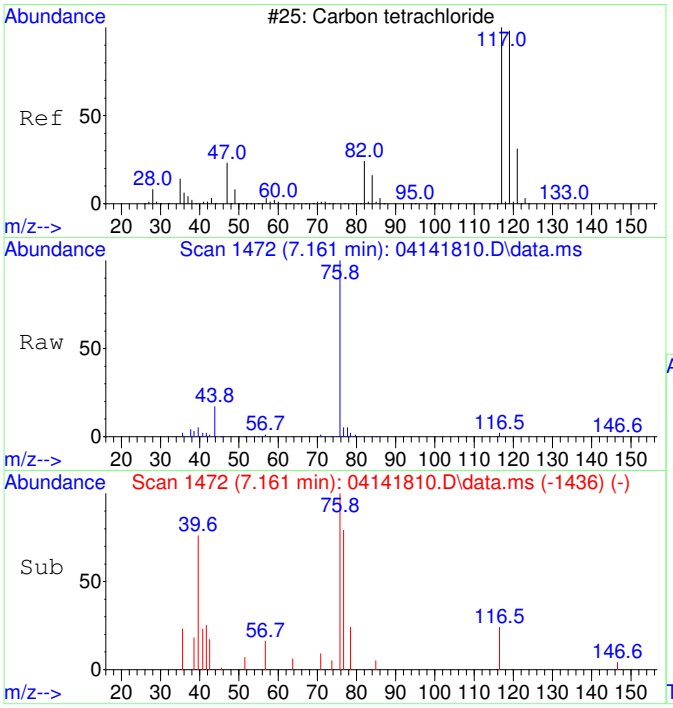


#31
1,1,1-Trichloroethane SCAN
Concen: 126.49 ug/L
RT: 6.943 min Scan# 1454
Delta R.T. 0.012 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 97 Resp: 473

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

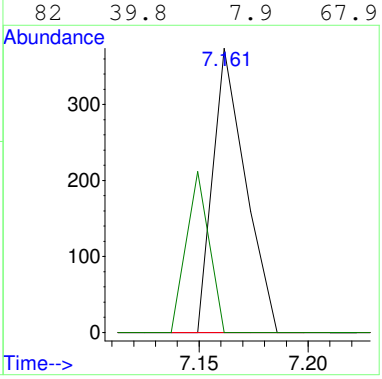


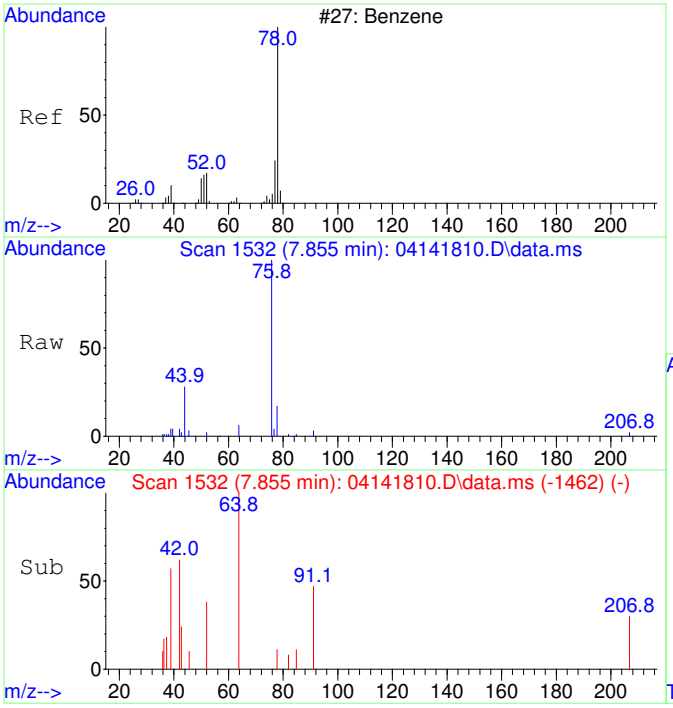


#32
Carbon tetrachloride SCAN
Concen: 144.63 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.061 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion:117 Resp: 389

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	39.8	7.9	67.9

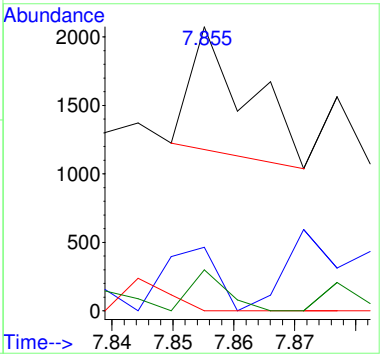


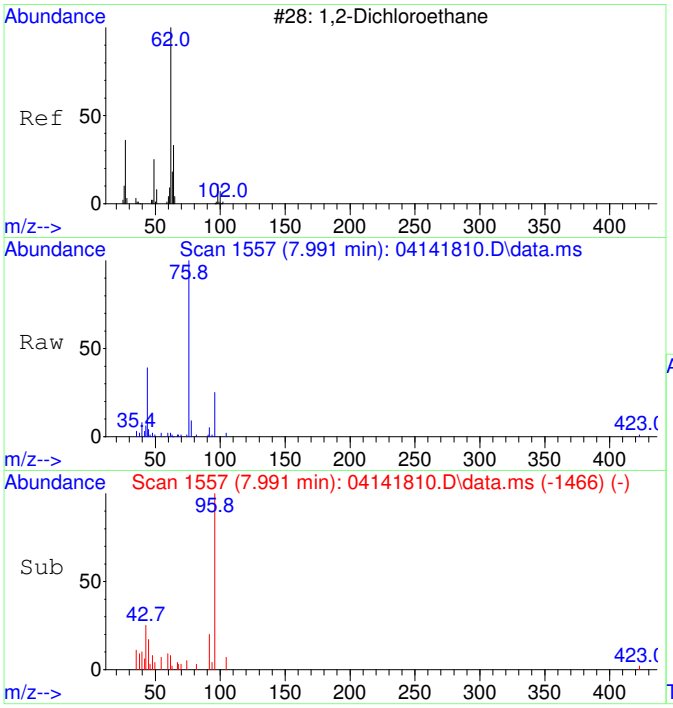


#33
Benzene SCAN
Concen: 68.93 ug/L
RT: 7.855 min Scan# 1532
Delta R.T. 0.317 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 78 Resp: 562

Ion	Ratio	Lower	Upper
78	100		
77	59.3	5.4	65.4
51	20.6	0.0	47.2
52	35.6	0.0	47.4

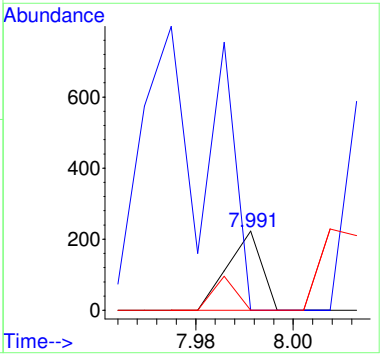


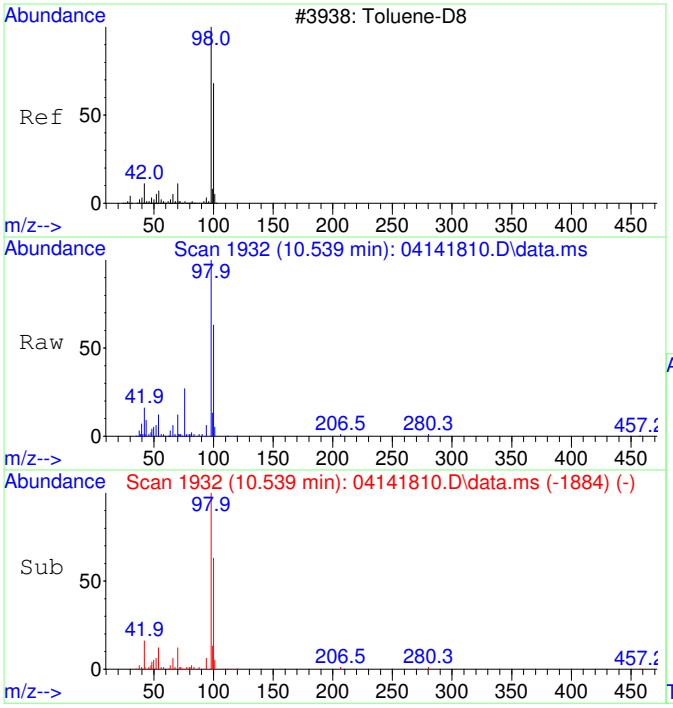


#34
1,2-Dichloroethane SCAN
Concen: 35.26 ug/L
RT: 7.991 min Scan# 1557
Delta R.T. 0.404 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 62 Resp: 109

Ion	Ratio	Lower	Upper
62	100		
64	746.8	4.4	64.4#
49	0.0	1.2	61.2#

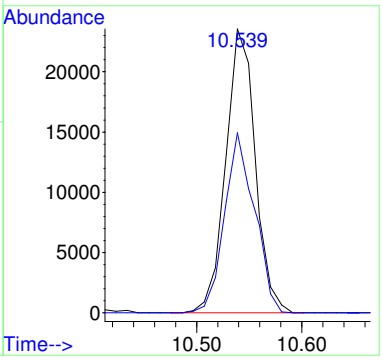


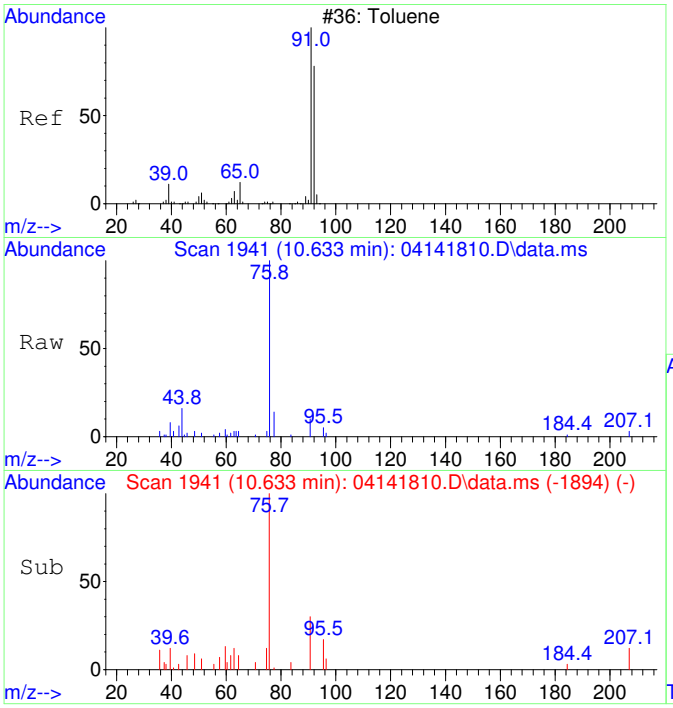


#36
Toluene-d8 SCAN
Concen: 5531.84 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 98 Resp: 45992

Ion	Ratio	Lower	Upper
98	100		
100	64.3	37.3	97.3

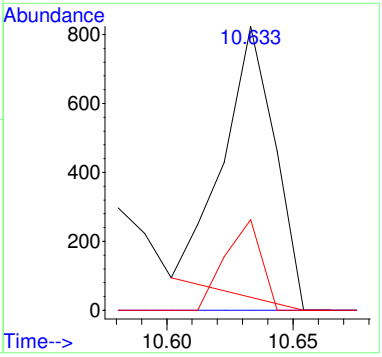


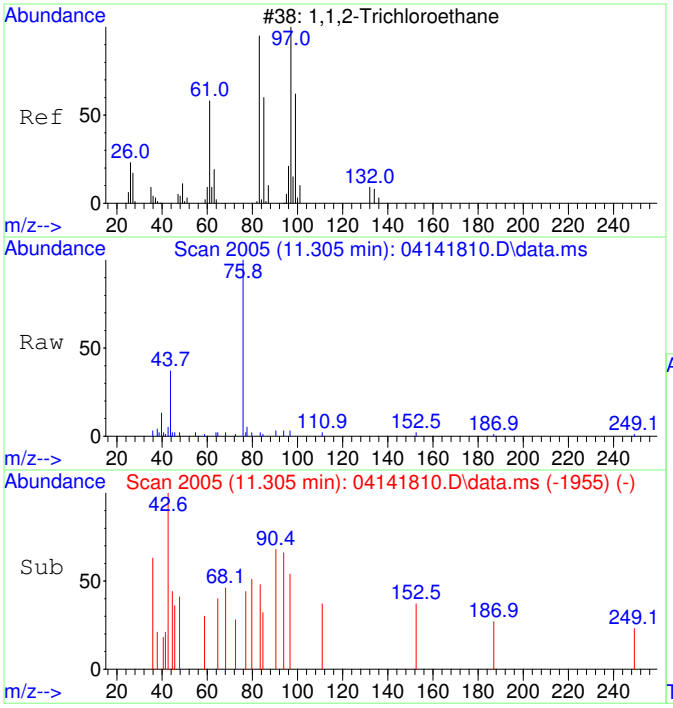


#37
Toluene SCAN
Concen: 117.12 ug/L
RT: 10.633 min Scan# 1941
Delta R.T. -0.010 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 91 Resp: 1089

Ion	Ratio	Lower	Upper
91	100		
92	0.0	39.1	99.1#
65	24.2	0.0	43.8

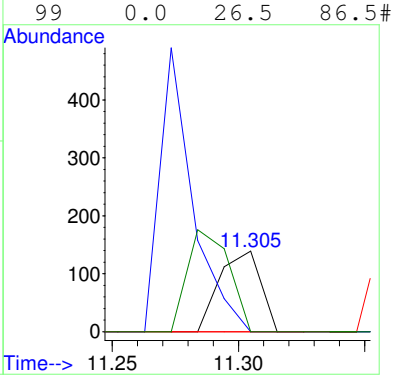


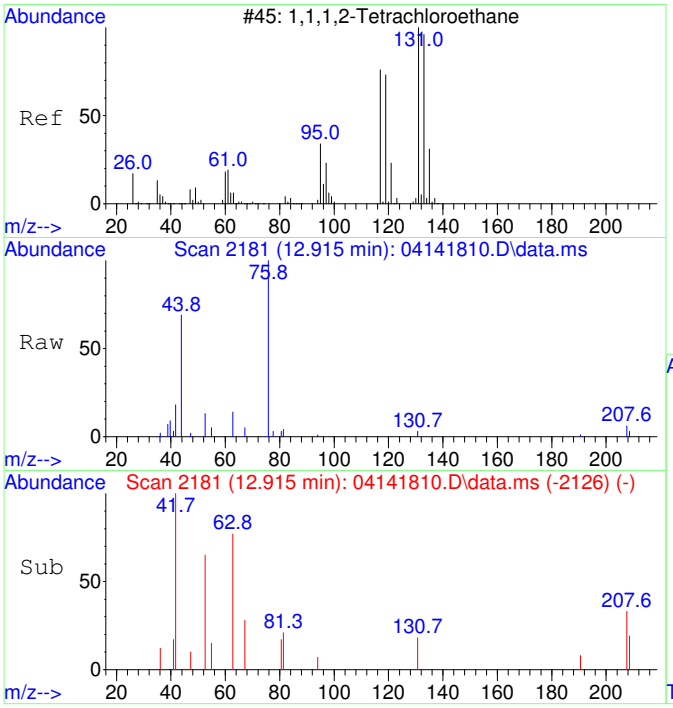


#38
1,1,2-Trichloroethane SCAN
Concen: 55.49 ug/L
RT: 11.305 min Scan# 2005
Delta R.T. 0.021 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 97 Resp: 158

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

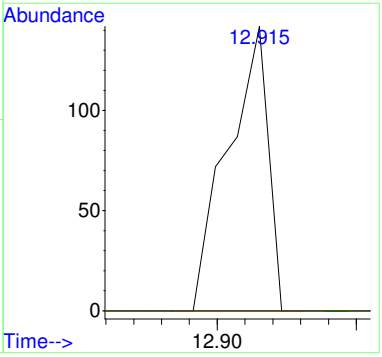


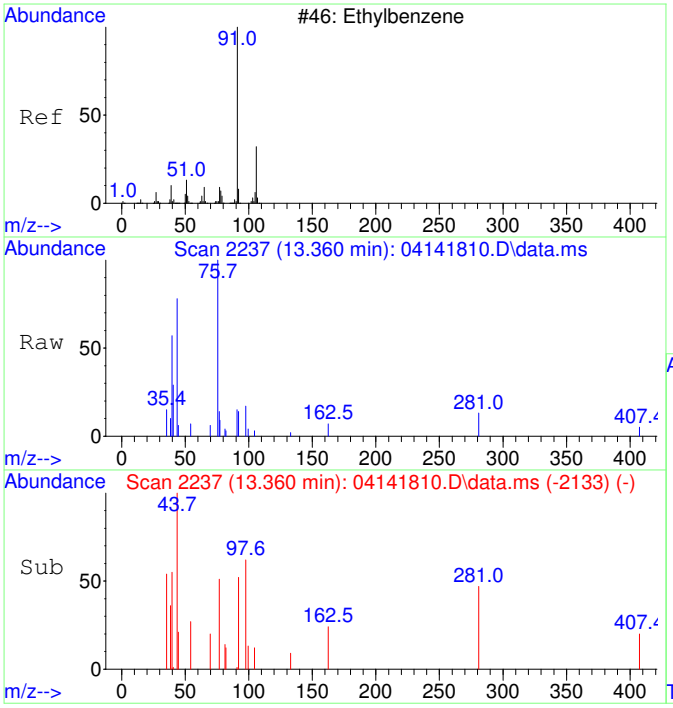


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 60.20 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.063 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion:131 Resp: 143

Ion	Ratio	Lower	Upper
131	100		
133	0.0	78.7	138.7#
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

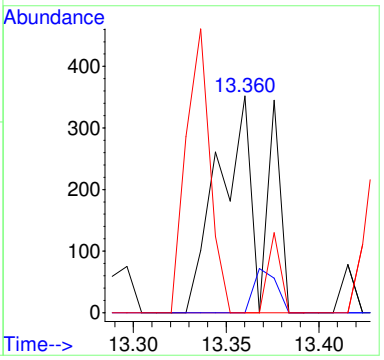


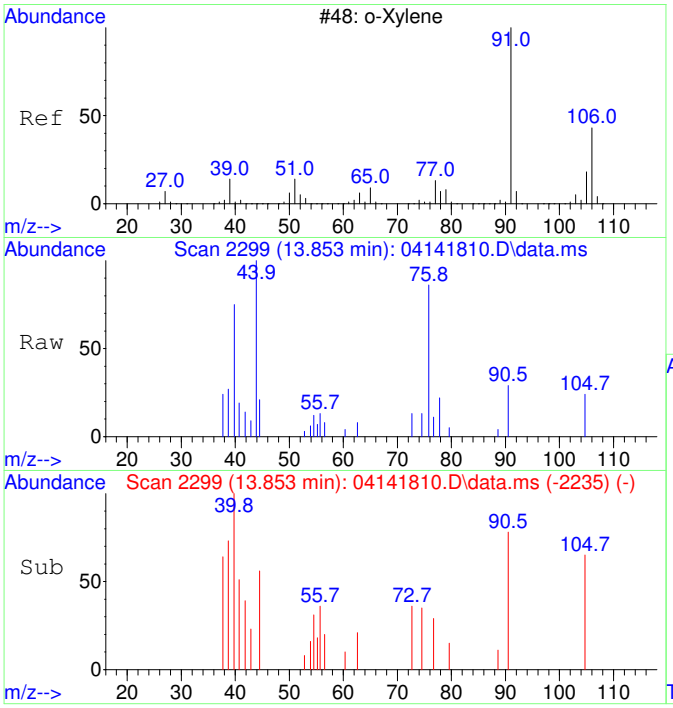


#42
Ethylbenzene SCAN
Concen: 48.49 ug/L
RT: 13.360 min Scan# 2237
Delta R.T. 0.326 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 91 Resp: 591

Ion	Ratio	Lower	Upper
91	100		
106	10.3	1.8	61.8
51	10.5	0.0	45.4

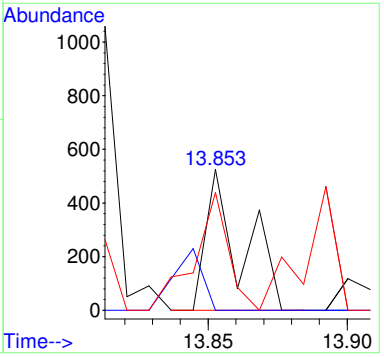


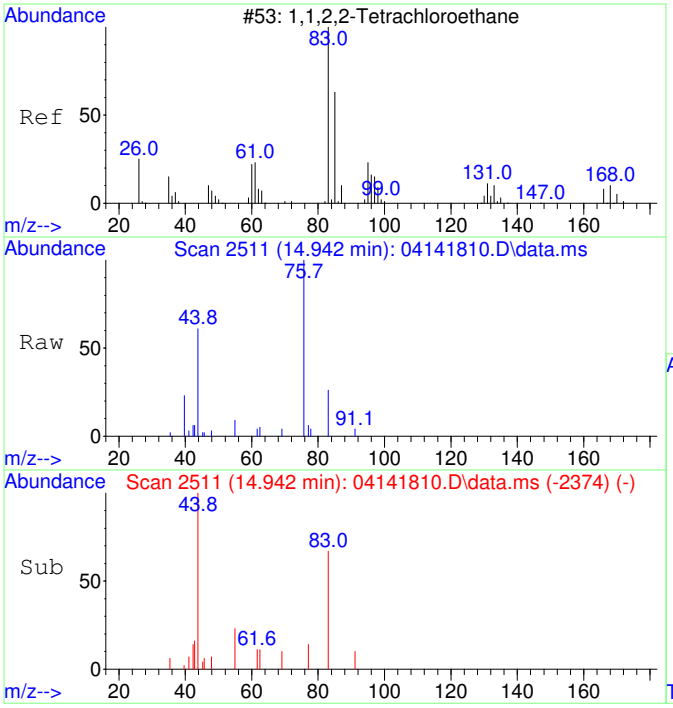


#44
o-Xylene SCAN
Concen: 43.48 ug/L
RT: 13.853 min Scan# 2299
Delta R.T. 0.008 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 91 Resp: 467

Ion	Ratio	Lower	Upper
91	100		
106	35.5	20.2	80.2
105	80.5	0.0	54.9#

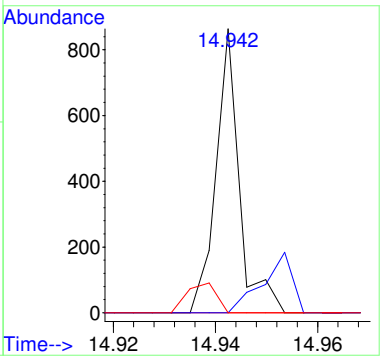


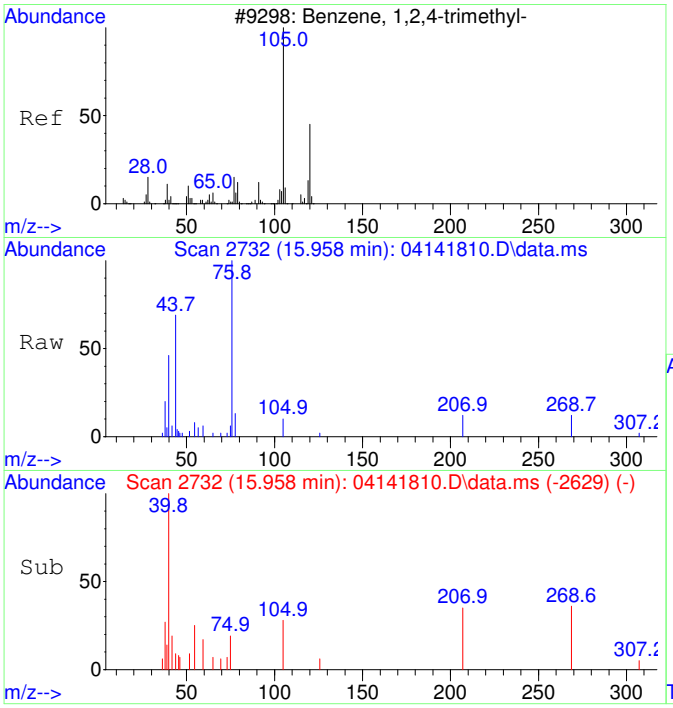


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 48.74 ug/L
RT: 14.942 min Scan# 2511
Delta R.T. 0.008 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 83 Resp: 274

Ion	Ratio	Lower	Upper
83	100		
85	27.0	32.4	92.4#
95	0.0	0.0	41.2

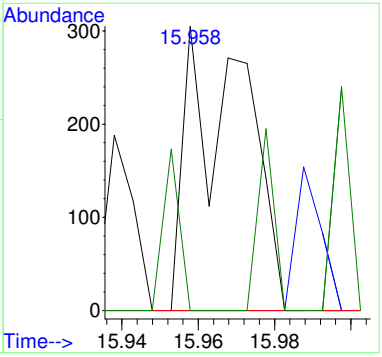


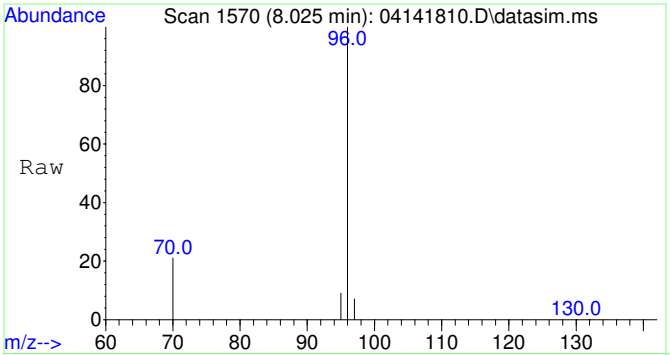


#47
1,2,4-Trimethylbenzene SCAN
Concen: 26.20 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.010 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion:105 Resp: 326

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.8	72.8#
119	0.0	0.0	42.5
77	16.0	0.0	42.2

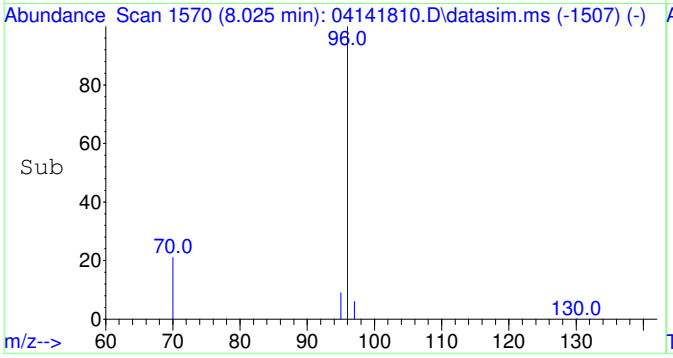


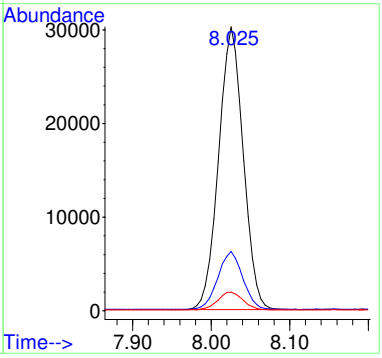


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141810.D
Acq: 14 Apr 2018 14:25

Tgt Ion: 96 Resp: 65612

Ion	Ratio	Lower	Upper
96	100		
70	20.8	0.0	50.7
97	6.5	0.0	36.7





B18D036-BS1

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141811.D
Acq On : 14 Apr 2018 14:49
InstName : AG5975C
Operator : RH
Sample : B18D036-BS1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 16 09:38:04 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	85999	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	62286	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	74671	5173.02 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.46%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	17645	4674.24 ug/L	99
3] trans-1,2-Dichloroethene	4.303	61	18237	4727.98 ug/L	100
4] 1,1-Dichloroethane	5.066	63	23988	4670.69 ug/L	100
5] cis-1,2-Dichloroethene	6.095	61	22756	4789.29 ug/L	100
6] Chloroform	6.676	83	25193	4508.40 ug/L	100
7] 1,1,1-Trichloroethane	6.932	97	25587	4689.34 ug/L	99
8] Carbon tetrachloride	7.211	117	22903	4600.85 ug/L	99
9] Benzene	7.540	78	60915	4421.91 ug/L	100
10] 1,2-Dichloroethane	7.589	62	22562	4697.21 ug/L	99
11] Trichloroethene	8.619	130	18077	4762.60 ug/L	100
13] Toluene	10.635	91	78811	4337.90 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	18240	4544.00 ug/L	100
15] Tetrachloroethene	11.495	166	23015	4621.78 ug/L	99
16] Chlorobenzene	12.829	112	56106	4382.53 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	20241	4749.29 ug/L	99
18] Ethylbenzene	13.036	91	101490	4920.92 ug/L	100
19] m&p-Xylene	13.226	91	152628	9457.68 ug/L	100
20] o-Xylene	13.846	91	75659	4449.17 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.944	83	35094	4446.29 ug/L	100
22] 1,3,5-Trimethylbenzene	15.408	105	89963	4520.01 ug/L	99
23] 1,2,4-Trimethylbenzene	15.949	105	86736	4284.11 ug/L	100
24] Naphthalene	17.932	128	34549	985.74 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	47650	5734.22 ug/L	90
26) 1,1-Dichloroethene SCAN	3.100	61	10240	5560.10 ug/L	83
27) trans-1,2-Dichloroethe...	4.308	61	10601	5874.66 ug/L	77
28) 1,1-Dichloroethane SCAN	5.065	63	15301	5541.55 ug/L	93
29) cis-1,2-Dichloroethene...	6.107	61	13988	6453.77 ug/L	82
30) Chloroform SCAN	6.675	83	13863	5301.15 ug/L	90
31) 1,1,1-Trichloroethane ...	6.930	97	13127	4000.11 ug/L	74
32) Carbon tetrachloride SCAN	7.210	117	11233	4759.05 ug/L #	44
33) Benzene SCAN	7.551	78	39124	5468.22 ug/L	87
34) 1,2-Dichloroethane SCAN	7.587	62	12264	4520.53 ug/L	80
35) Trichloroethene SCAN	8.623	130	9039	5028.32 ug/L	96
36) Toluene-d8 SCAN	10.539	98	43216	5923.25 ug/L	98
37) Toluene SCAN	10.644	91	42427	5199.52 ug/L	91
38) 1,1,2-Trichloroethane ...	11.294	97	9221	3689.99 ug/L	78
39) Tetrachloroethene SCAN	11.494	166	11850	4453.15 ug/L	92
40) Chlorobenzene SCAN	12.836	112	27981	4363.57 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.971	131	8083	3877.34 ug/L	96
42) Ethylbenzene SCAN	13.034	91	56066	5241.83 ug/L	93
43) m&p-Xylene SCAN	13.233	91	79893	4589.87 ug/L	96
44) o-Xylene SCAN	13.853	91	37427	3970.90 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.950	83	19091	3869.74 ug/L	89
46) 1,3,5-Trimethylbenzene...	15.412	105	42536	3926.40 ug/L	95
47) 1,2,4-Trimethylbenzene...	15.958	105	42185	3863.10 ug/L	94
48) Naphthalene SCAN	17.931	128	15634	888.58 ug/L	98

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

Table of Contents

Quantitation Report (Not Reviewed)

```
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ata File : 04141811.D
cq On    : 14 Apr 2018  14:49
nstName  : AG5975C
perator  : RH
ample    : B18D036-BS1
isc      :
ALS Vial : 11   Sample Multiplier: 1

Quant Time: Apr 16 09:38:04 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title  : Volatile Organic Analysis  -  Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration
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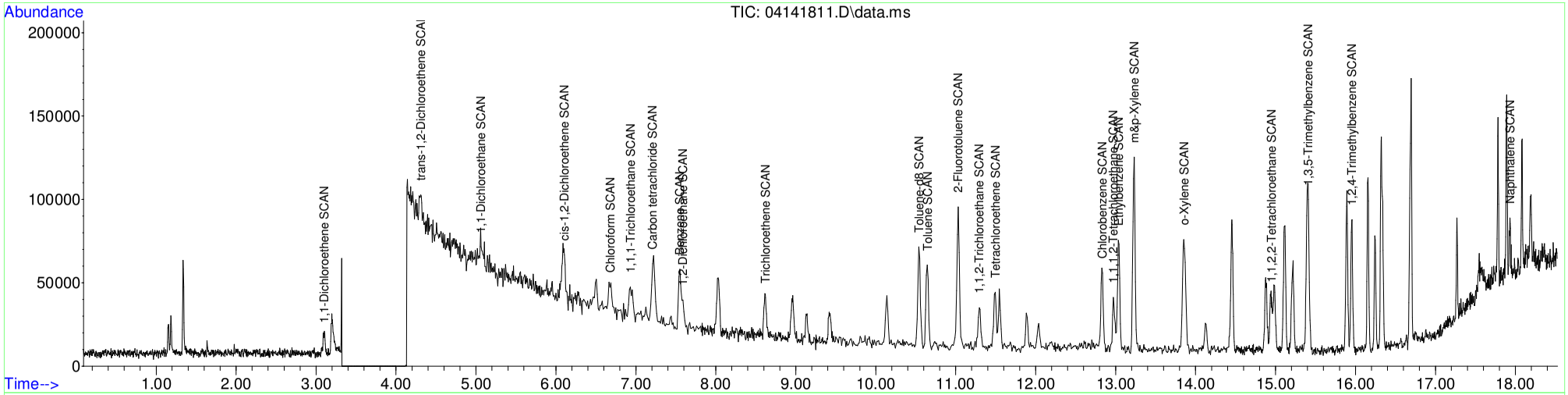
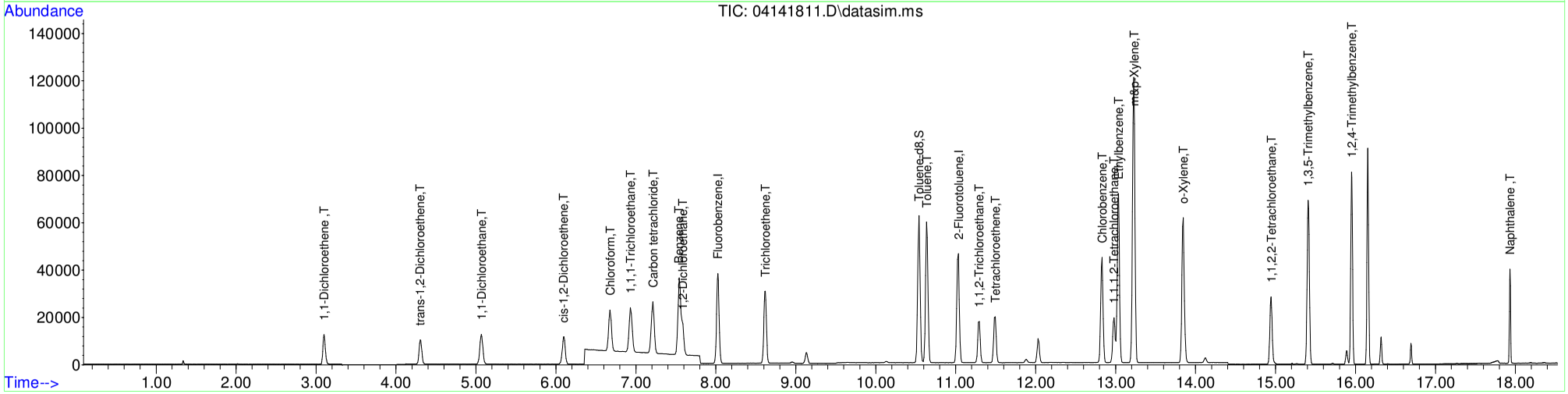
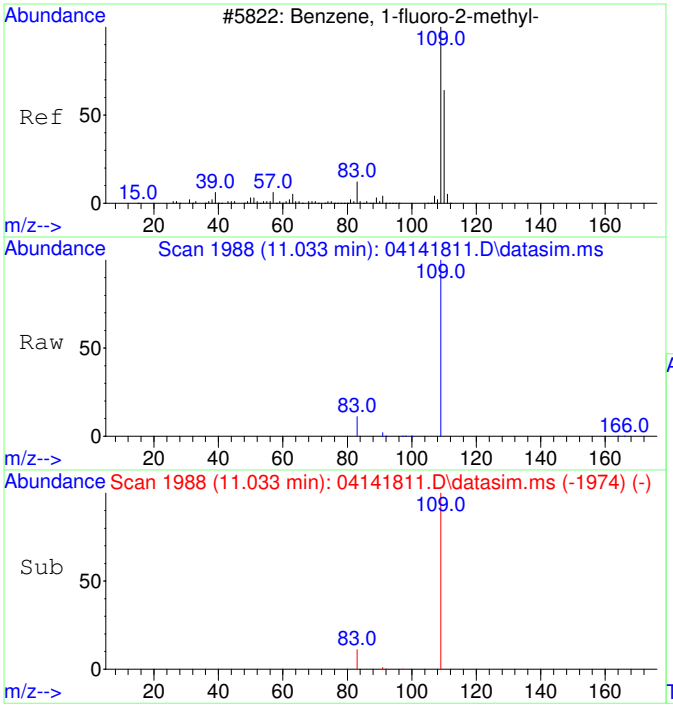


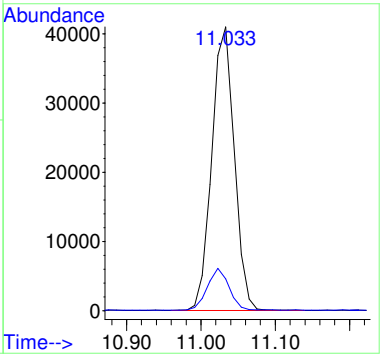


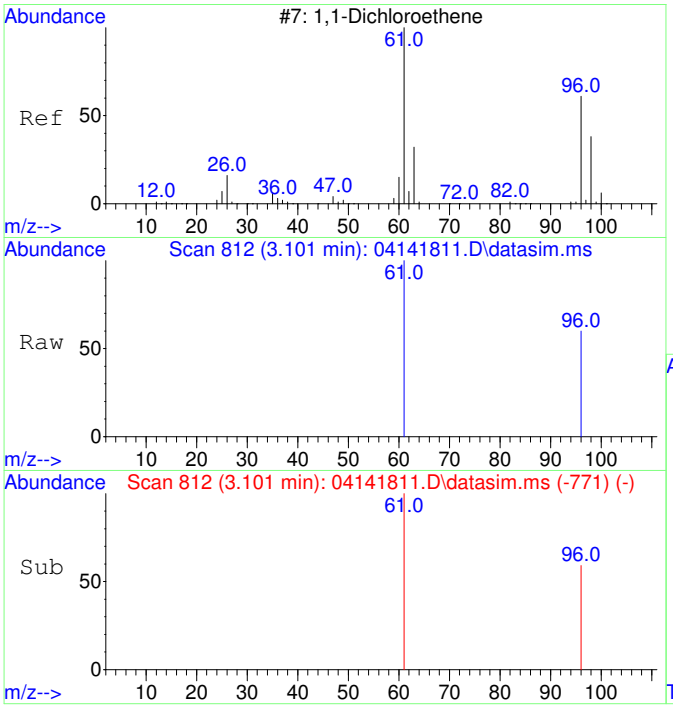


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:109 Resp: 85999

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	44.4

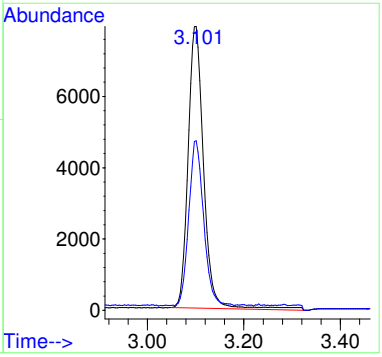




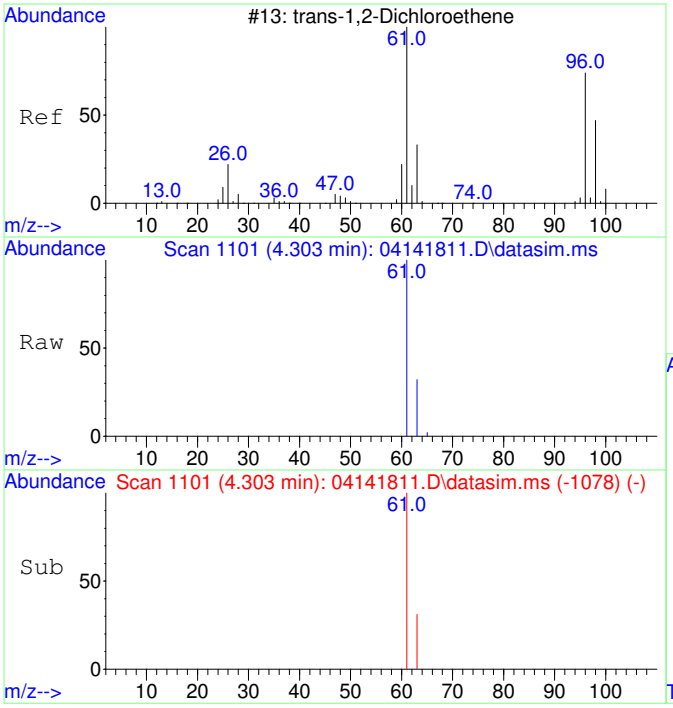
#2
1,1-Dichloroethene
Concen: 4674.24 ug/L
RT: 3.101 min Scan# 812
Delta R.T. 0.004 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 17645

Ion	Ratio	Lower	Upper
61	100		
96	55.4	26.1	86.1



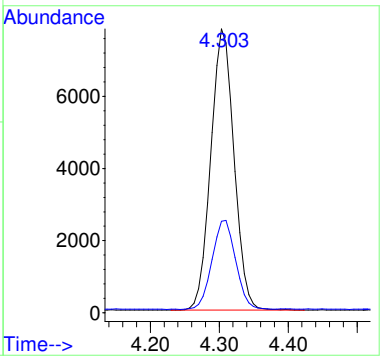
Before MI:
IMPROPER
BASELINE

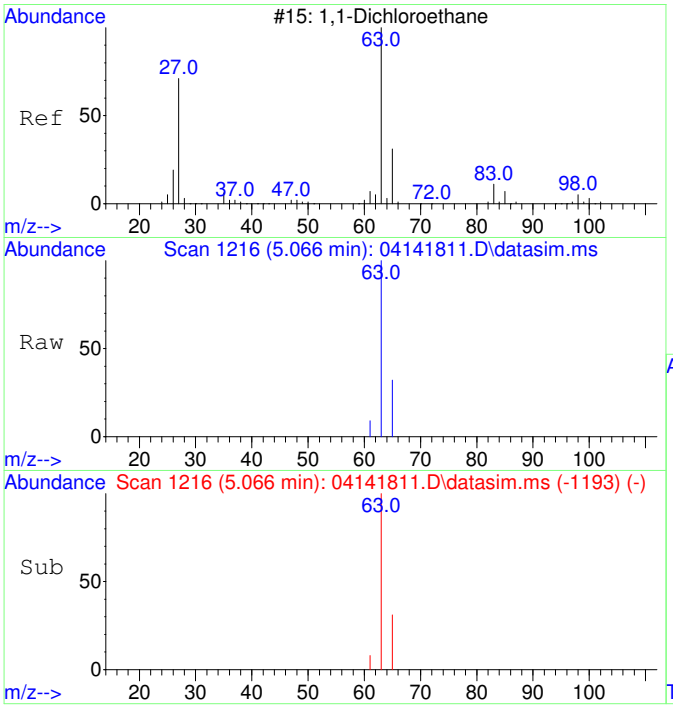


#3
trans-1,2-Dichloroethene
Concen: 4727.98 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 18237

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

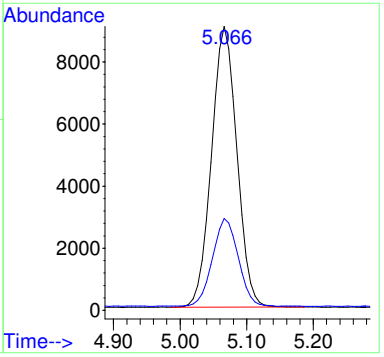


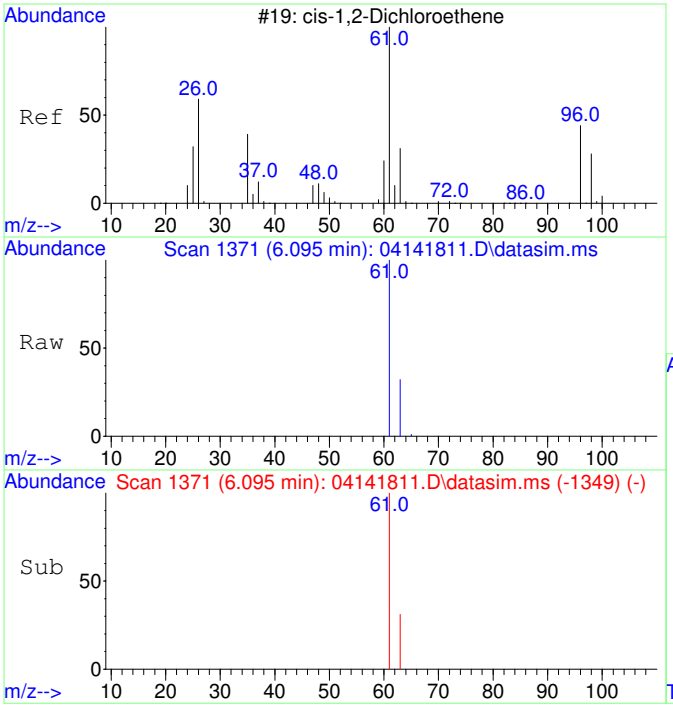


#4
1,1-Dichloroethane
Concen: 4670.69 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 63 Resp: 23988

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.8	61.8

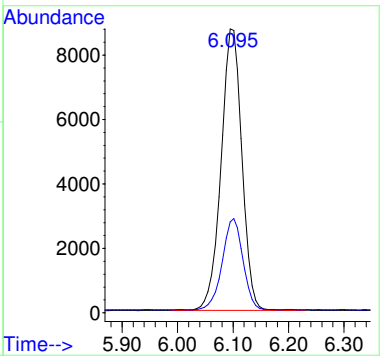


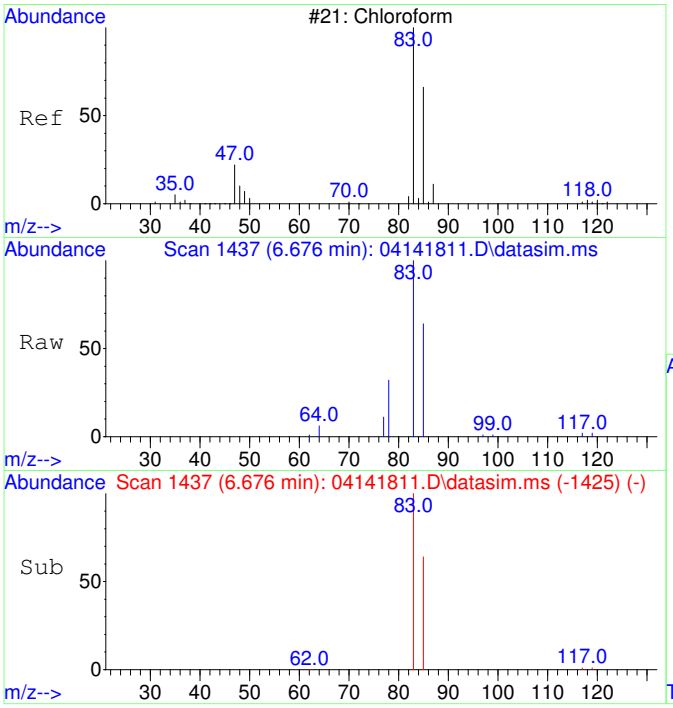


#5
cis-1,2-Dichloroethene
Concen: 4789.29 ug/L
RT: 6.095 min Scan# 1371
Delta R.T. -0.006 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 22756

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.0	62.0

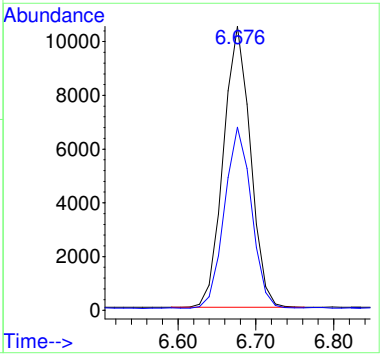


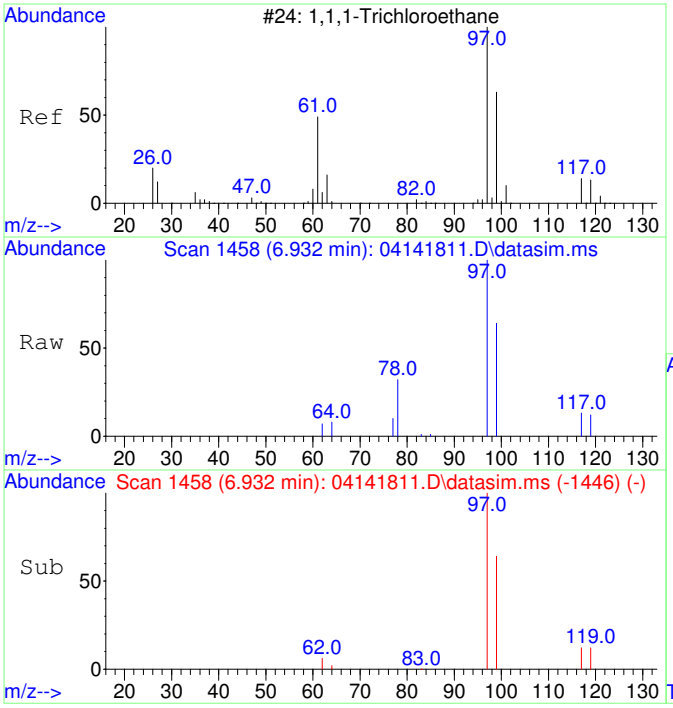


#6
Chloroform
Concen: 4508.40 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 83 Resp: 25193

Ion	Ratio	Lower	Upper
83	100		
85	64.2	34.2	94.2

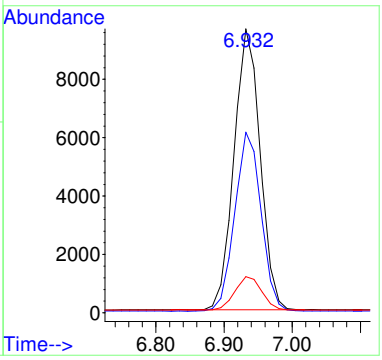


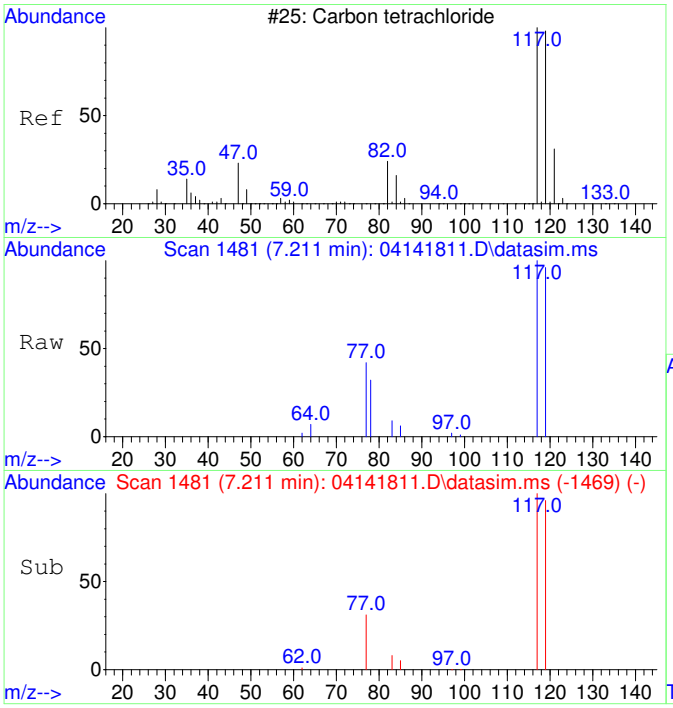


#7
1,1,1-Trichloroethane
Concen: 4689.34 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 97 Resp: 25587

Ion	Ratio	Lower	Upper
97	100		
99	64.0	34.5	94.5
117	12.3	0.0	42.6

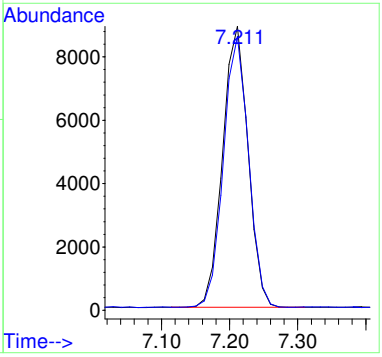


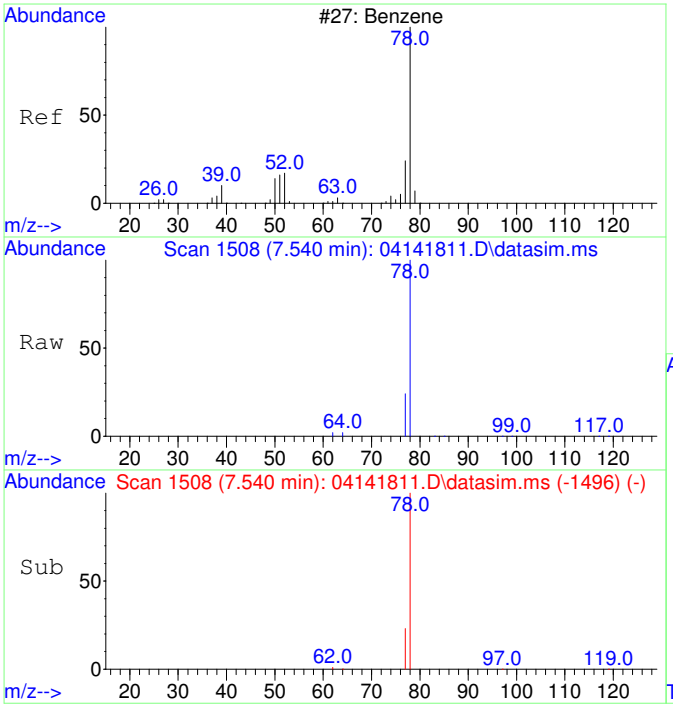


#8
Carbon tetrachloride
Concen: 4600.85 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:117 Resp: 22903

Ion	Ratio	Lower	Upper
117	100		
119	95.5	64.5	124.5

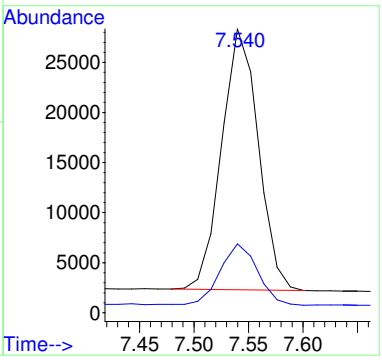


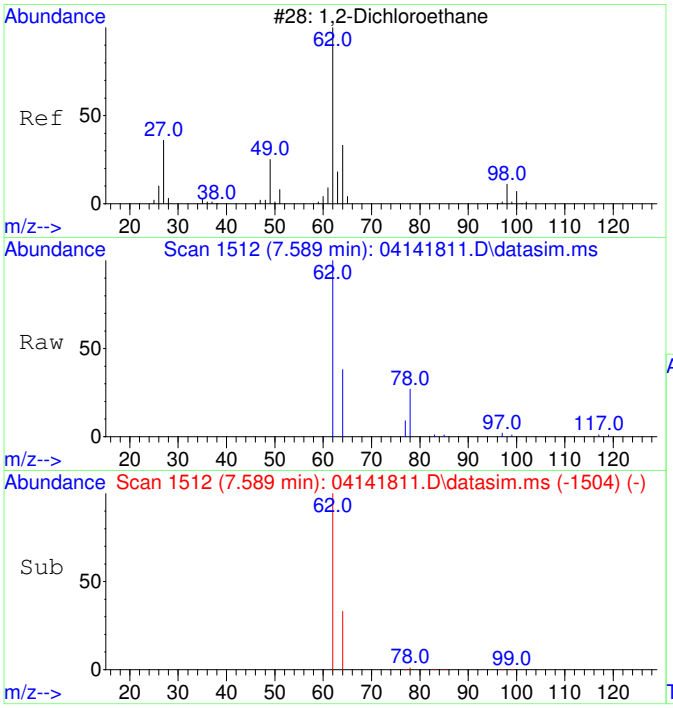


#9
Benzene
Concen: 4421.91 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 78 Resp: 60915

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.6

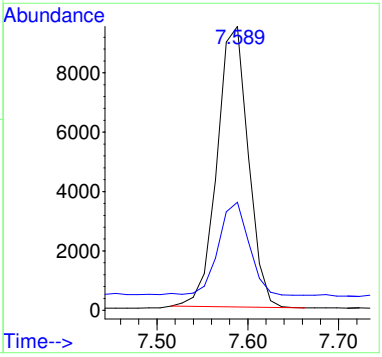


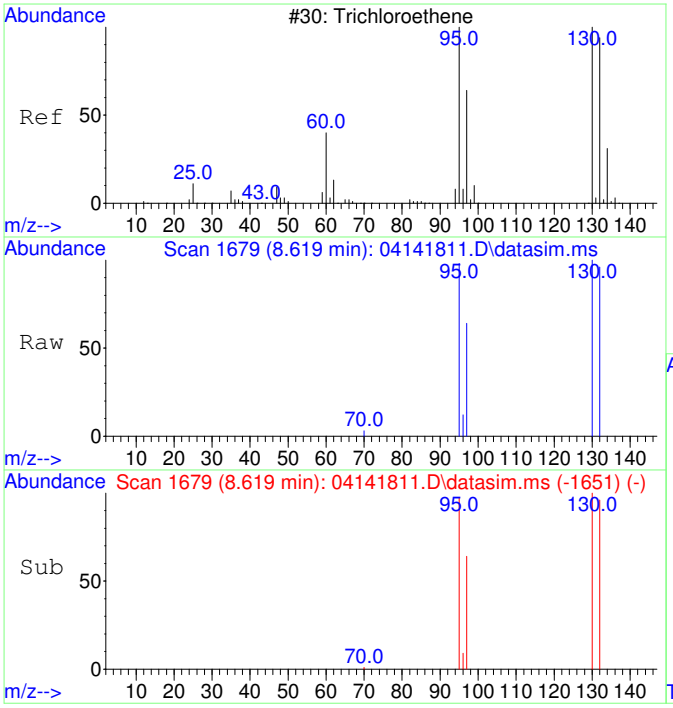


#10
1,2-Dichloroethane
Concen: 4697.21 ug/L
RT: 7.589 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 62 Resp: 22562

Ion	Ratio	Lower	Upper
62	100		
64	32.5	1.8	61.8

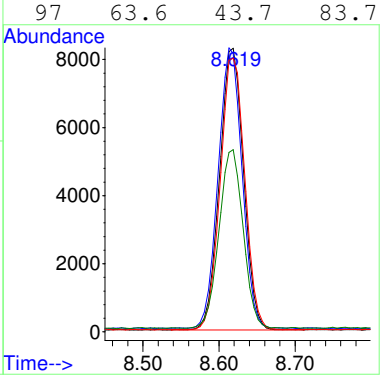


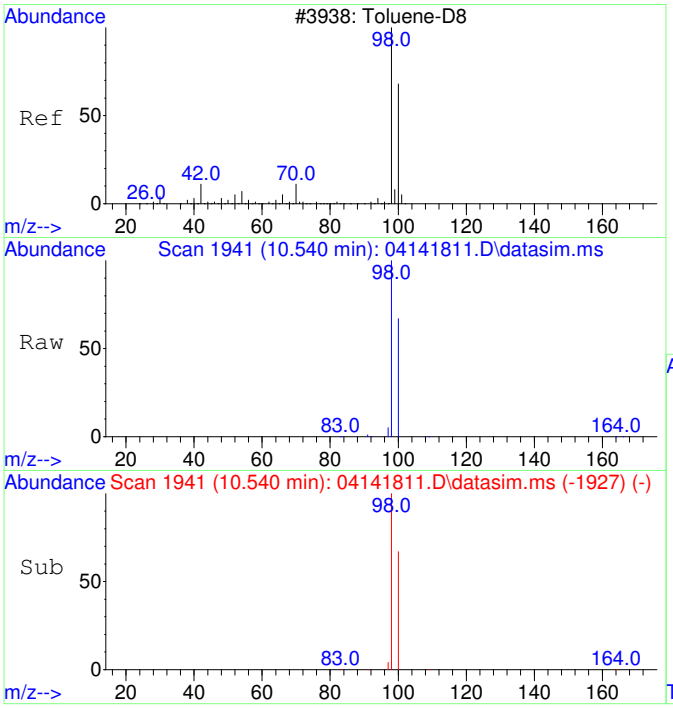


#11
Trichloroethene
Concen: 4762.60 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:130 Resp: 18077

Ion	Ratio	Lower	Upper
130	100		
95	98.9	68.8	128.8
132	98.4	78.6	118.6
97	63.6	43.7	83.7

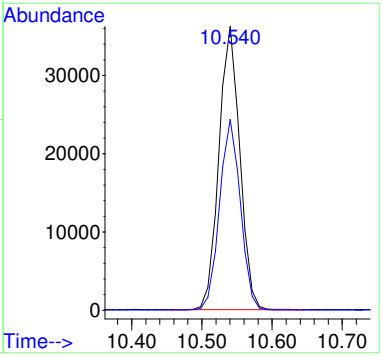


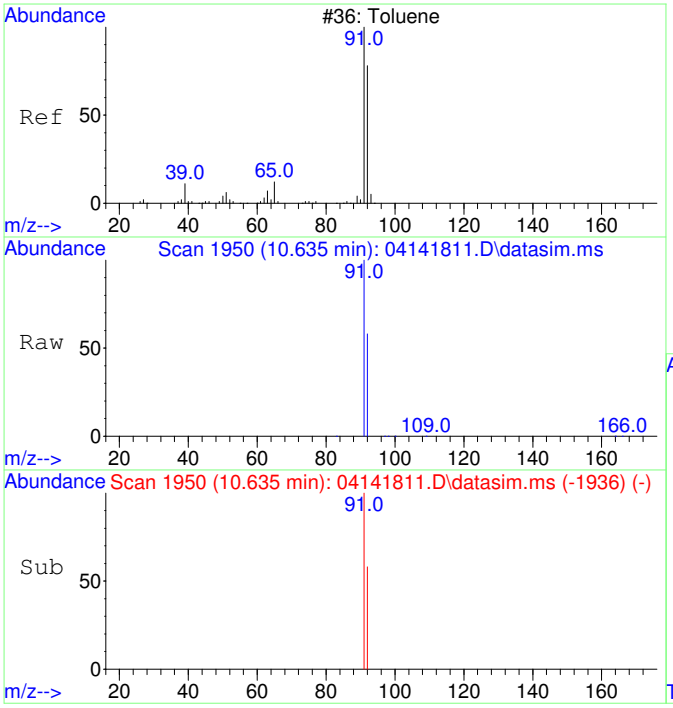


#12
Toluene-d8
Concen: 5173.02 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 98 Resp: 74671

Ion	Ratio	Lower	Upper
98	100		
100	66.9	36.9	96.9

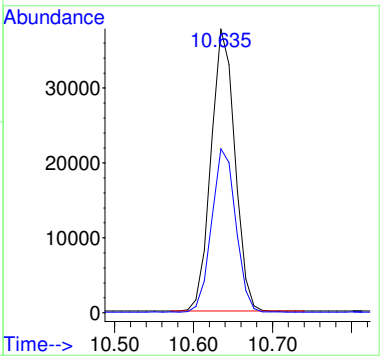


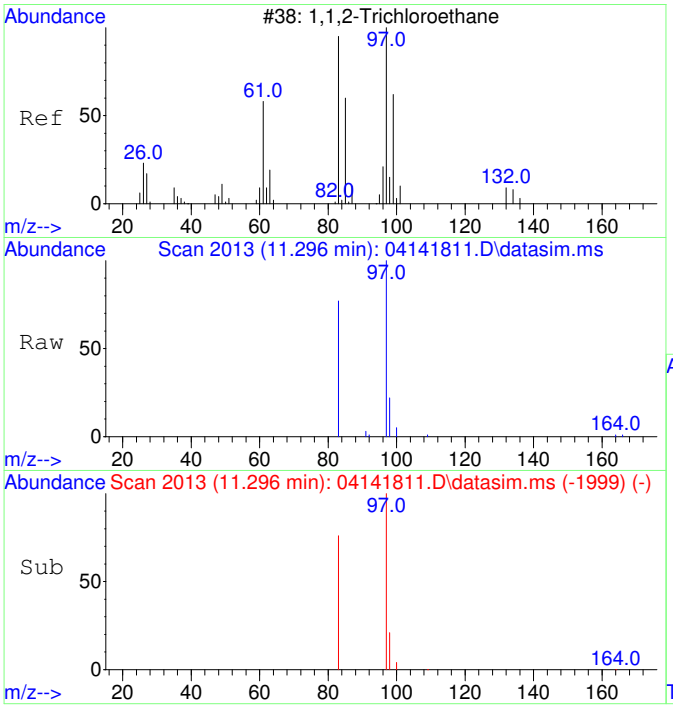


#13
Toluene
Concen: 4337.90 ug/L
RT: 10.635 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 78811

Ion	Ratio	Lower	Upper
91	100		
92	58.5	28.8	88.8

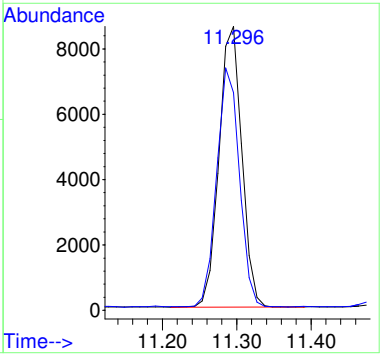


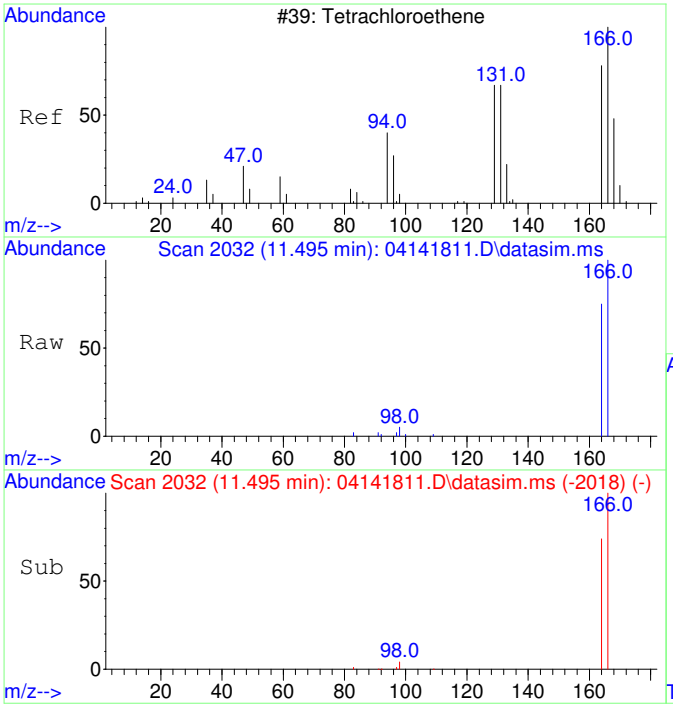


#14
1,1,2-Trichloroethane
Concen: 4544.00 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 97 Resp: 18240

Ion	Ratio	Lower	Upper
97	100		
83	84.7	54.3	114.3

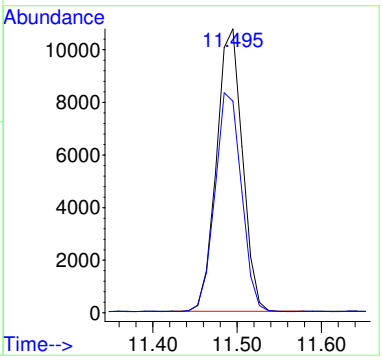


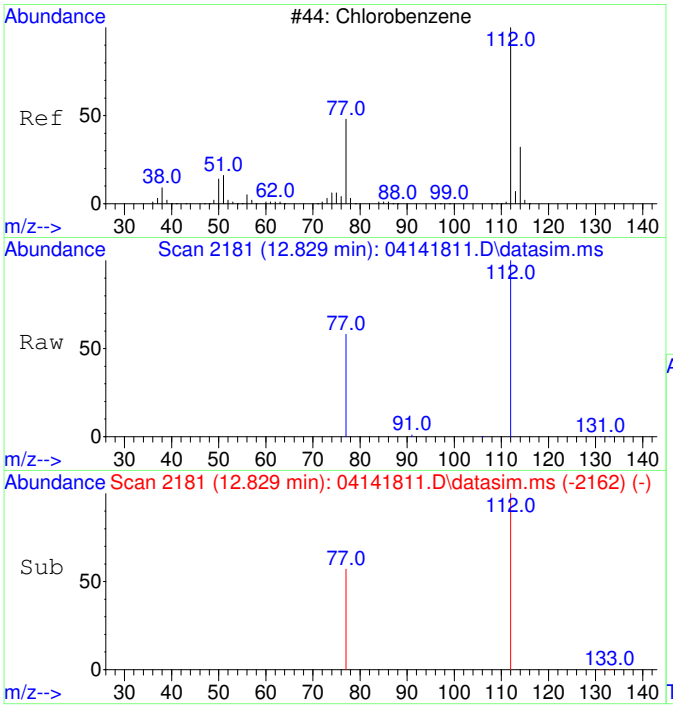


#15
Tetrachloroethene
Concen: 4621.78 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:166 Resp: 23015

Ion	Ratio	Lower	Upper
166	100		
164	79.0	48.0	108.0

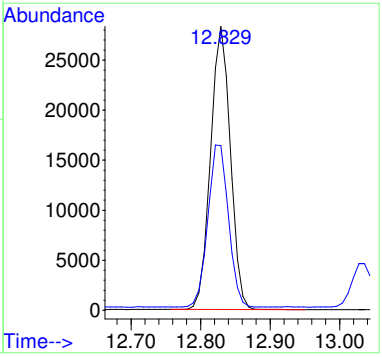


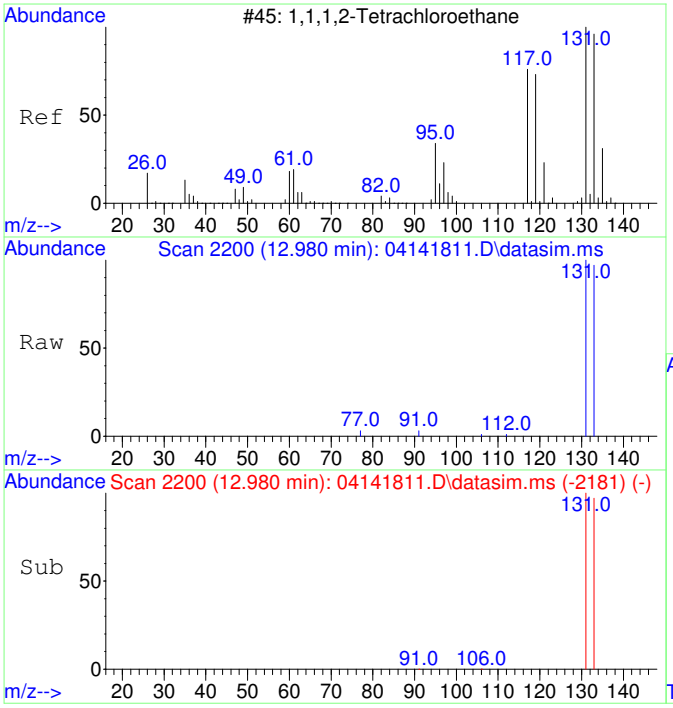


#16
Chlorobenzene
Concen: 4382.53 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:112 Resp: 56106

Ion	Ratio	Lower	Upper
112	100		
77	59.4	29.4	89.4

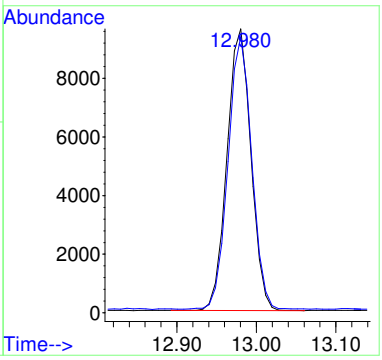


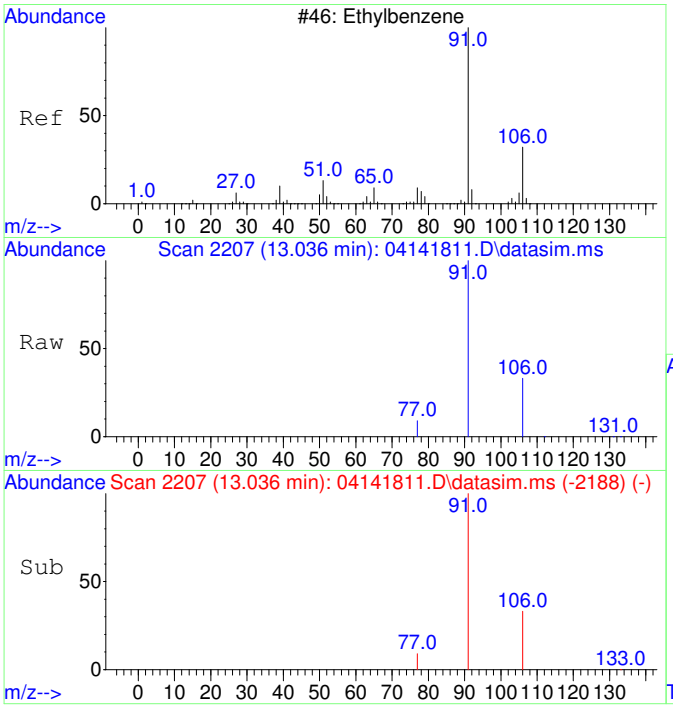


#17
1,1,1,2-Tetrachloroethane
Concen: 4749.29 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:131 Resp: 20241

Ion	Ratio	Lower	Upper
131	100		
133	95.6	65.1	125.1

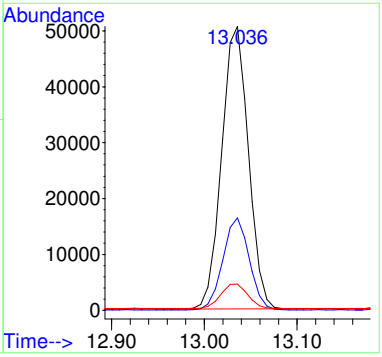


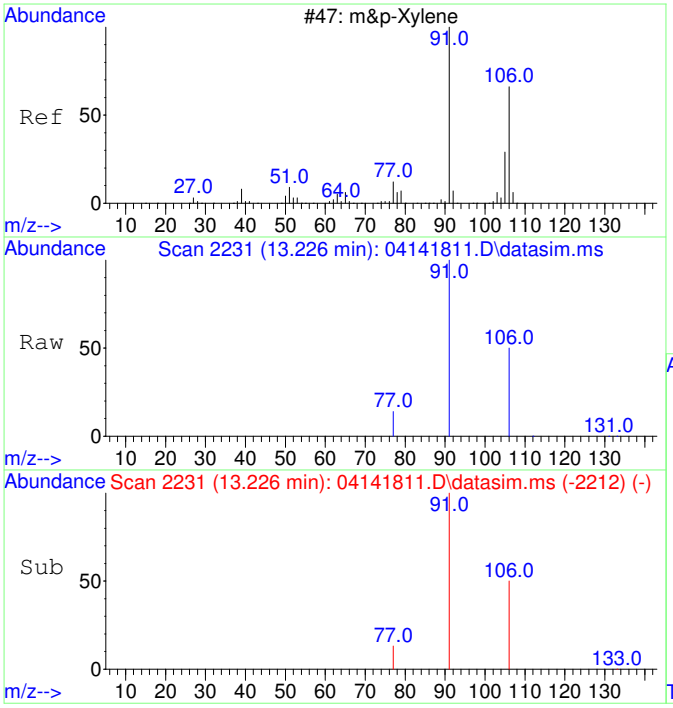


#18
Ethylbenzene
Concen: 4920.92 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 101490

Ion	Ratio	Lower	Upper
91	100		
106	32.0	1.8	61.8
77	8.9	0.0	38.7

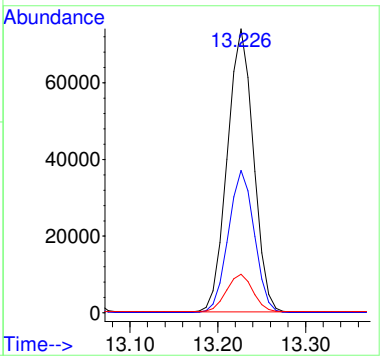


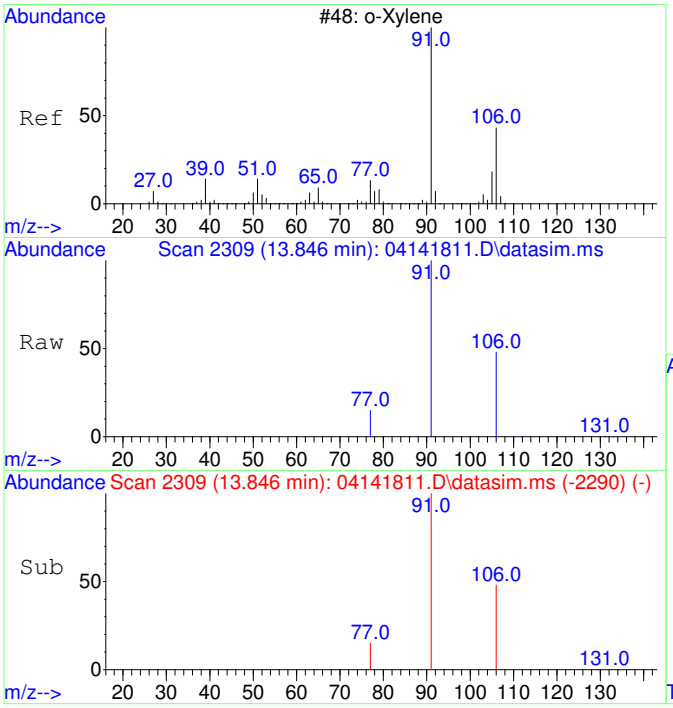


#19
m&p-Xylene
Concen: 9457.68 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 152628

Ion	Ratio	Lower	Upper
91	100		
106	49.8	20.0	80.0
77	13.3	0.0	43.4

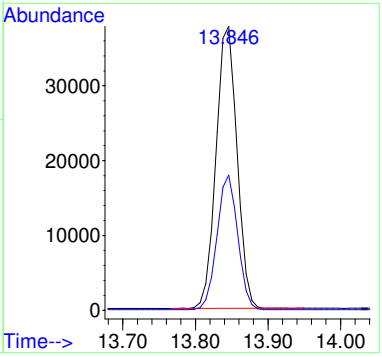


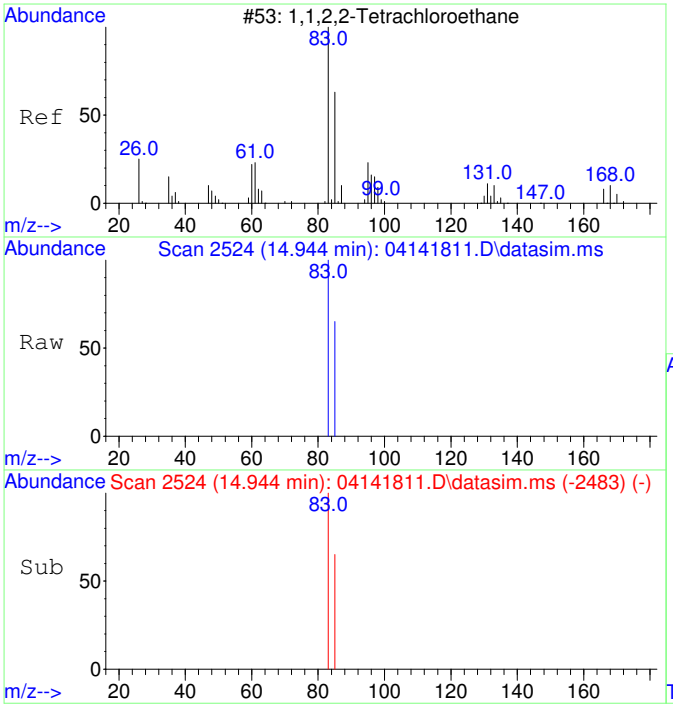


#20
o-Xylene
Concen: 4449.17 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 75659

Ion	Ratio	Lower	Upper
91	100		
106	47.1	16.9	76.9

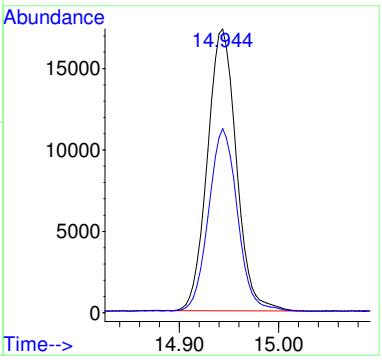


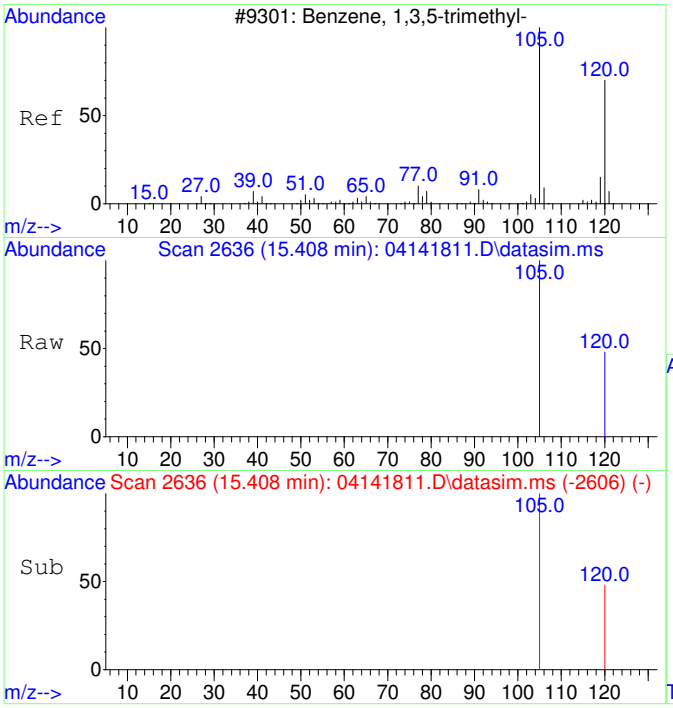


#21
1,1,2,2-Tetrachloroethane
Concen: 4446.29 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 83 Resp: 35094

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.3	94.3

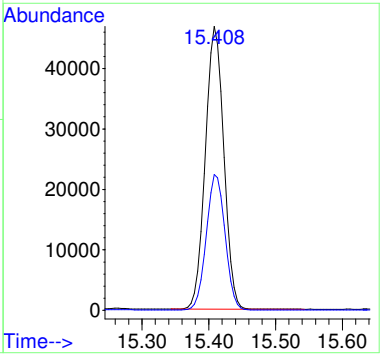


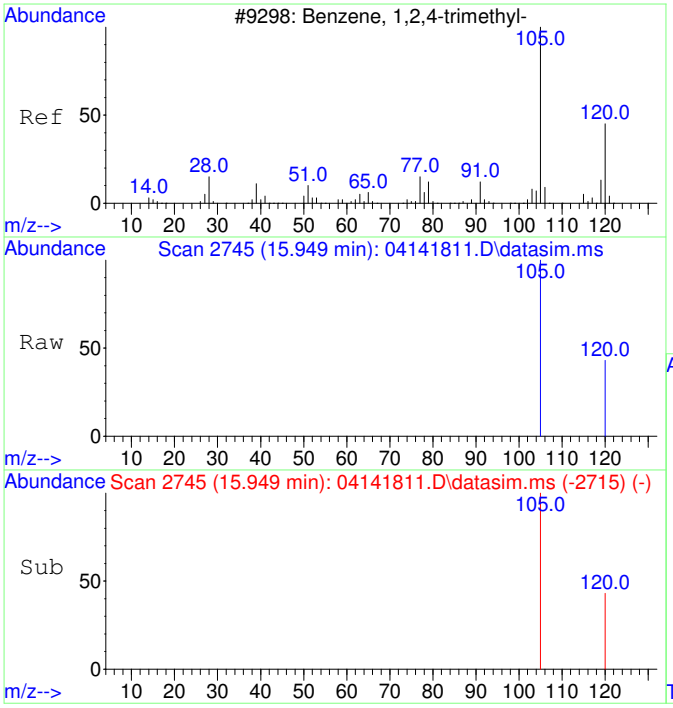


#22
1,3,5-Trimethylbenzene
Concen: 4520.01 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:105 Resp: 89963

Ion	Ratio	Lower	Upper
105	100		
120	48.5	18.1	78.1

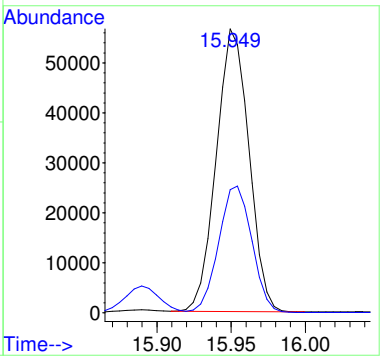


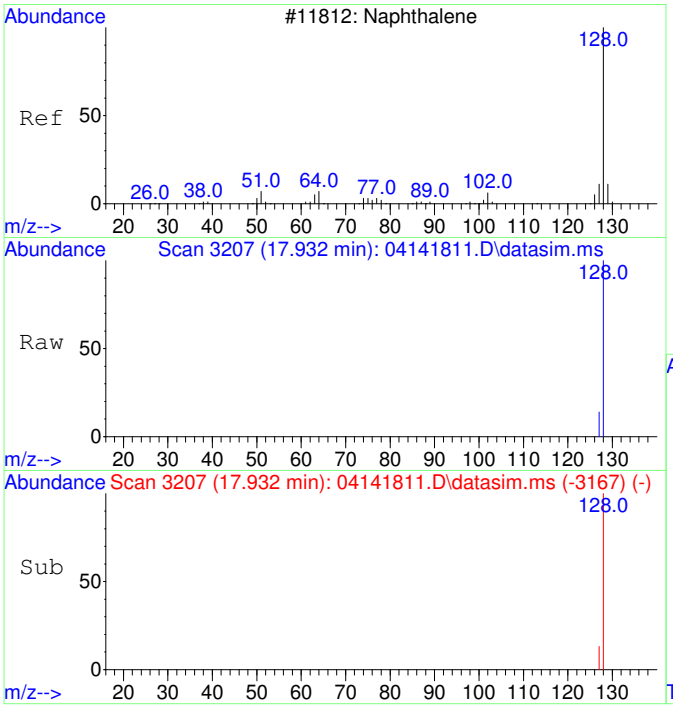


#23
1,2,4-Trimethylbenzene
Concen: 4284.11 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:105 Resp: 86736

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.5	74.5

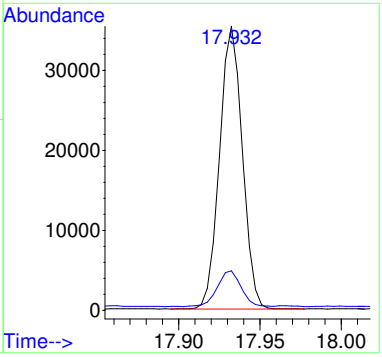


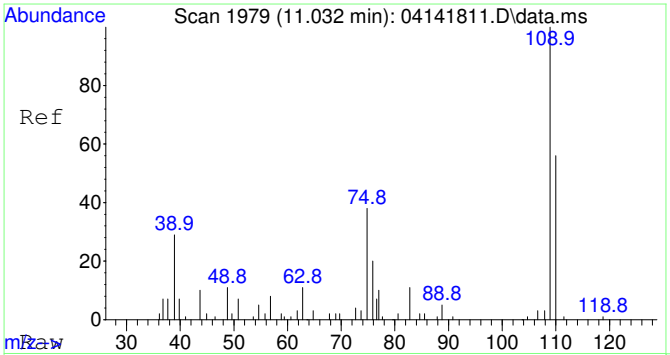


#24
Naphthalene
Concen: 985.74 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:128 Resp: 34549

Ion	Ratio	Lower	Upper
128	100		
127	13.1	0.0	42.7

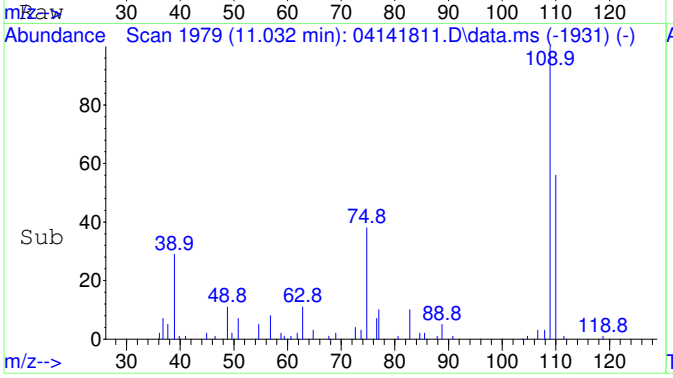


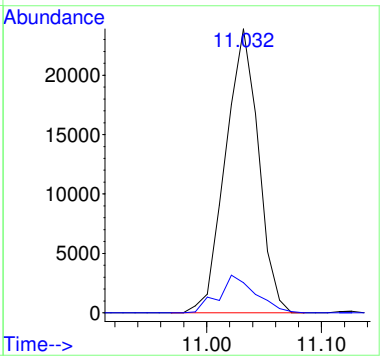


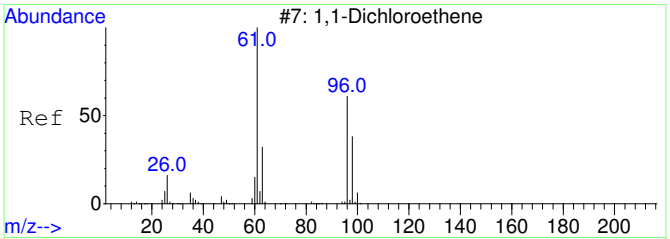
#25
2-Fluorotoluene SCAN
Concen: 5734.22 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:109 Resp: 47650

Ion	Ratio	Lower	Upper
109	100		
83	14.8	0.0	49.2



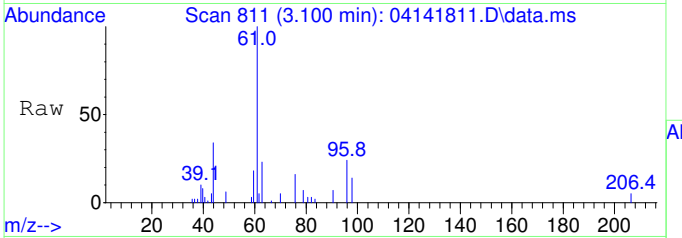


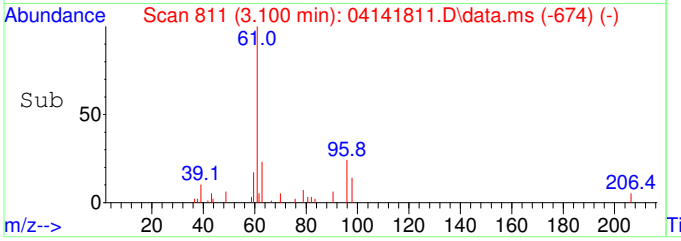


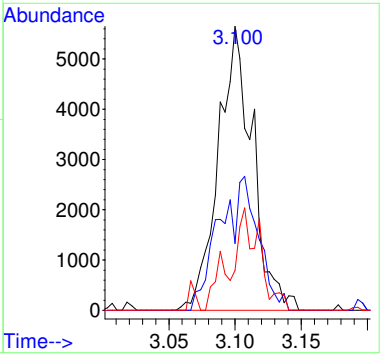
#26
1,1-Dichloroethene SCAN
Concen: 5560.10 ug/L
RT: 3.100 min Scan# 811
Delta R.T. 0.008 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

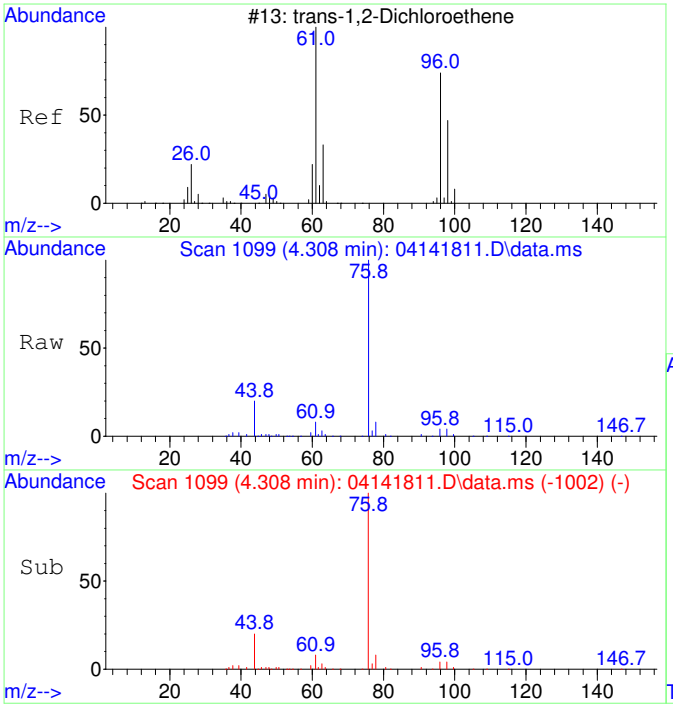
Tgt Ion: 61 Resp: 10240

Ion	Ratio	Lower	Upper
61	100		
96	53.3	21.6	81.6
98	15.5	7.5	67.5





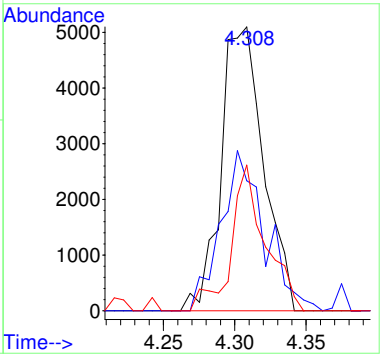


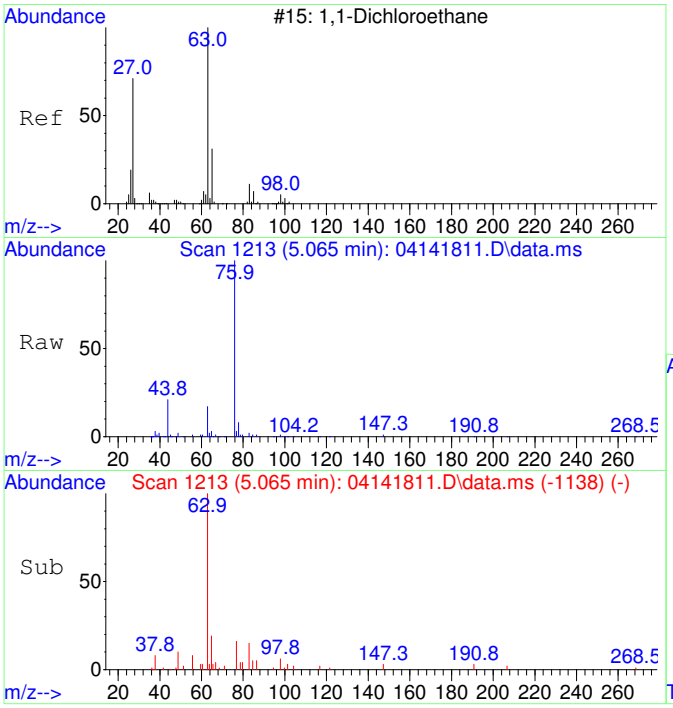


#27
trans-1,2-Dichloroethene SCAN
Concen: 5874.66 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 10601

Ion	Ratio	Lower	Upper
61	100		
96	57.9	51.8	111.8
98	41.1	22.7	82.7

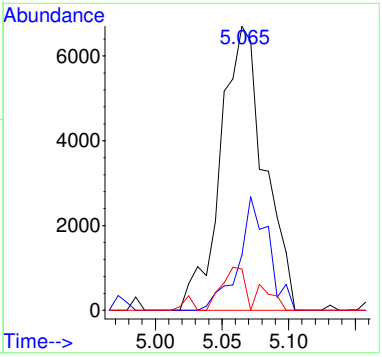


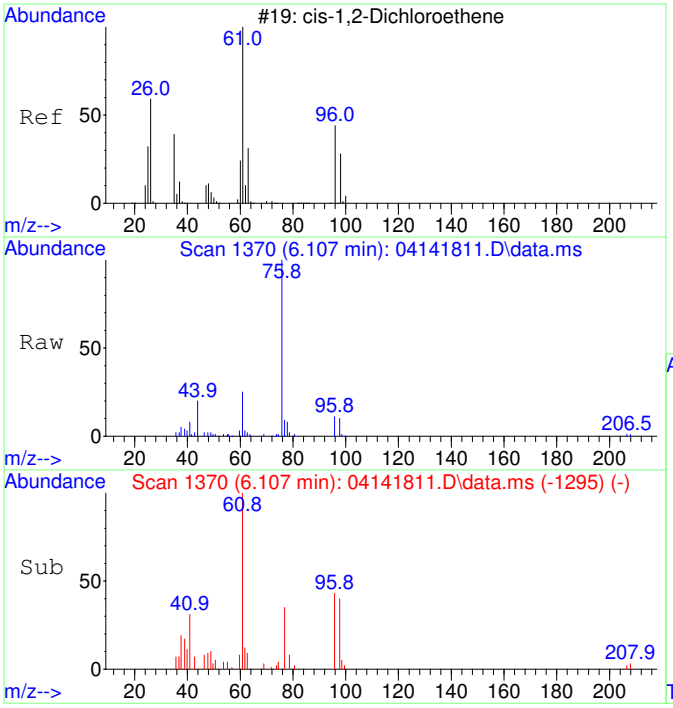


#28
1,1-Dichloroethane SCAN
Concen: 5541.55 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 63 Resp: 15301

Ion	Ratio	Lower	Upper
63	100		
65	27.3	2.2	62.2
83	8.0	0.0	38.2

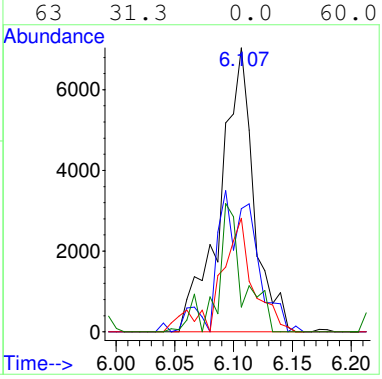


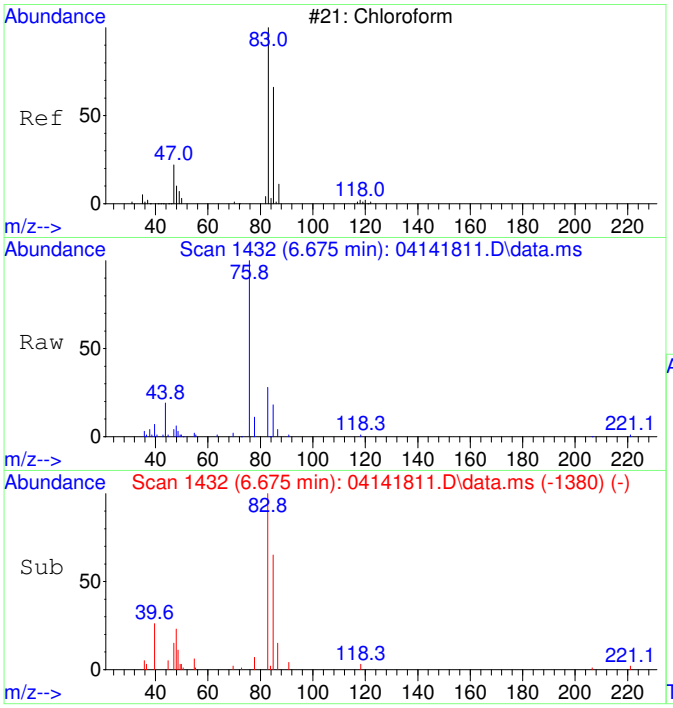


#29
cis-1,2-Dichloroethene SCAN
Concen: 6453.77 ug/L
RT: 6.107 min Scan# 1370
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 13988

Ion	Ratio	Lower	Upper
61	100		
96	57.7	49.4	109.4
98	30.5	9.5	69.5
63	31.3	0.0	60.0

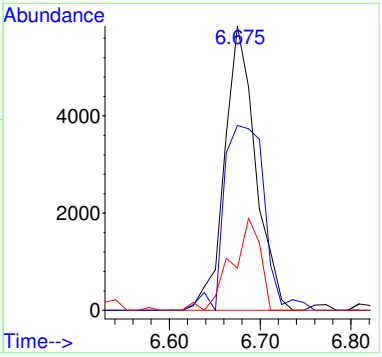


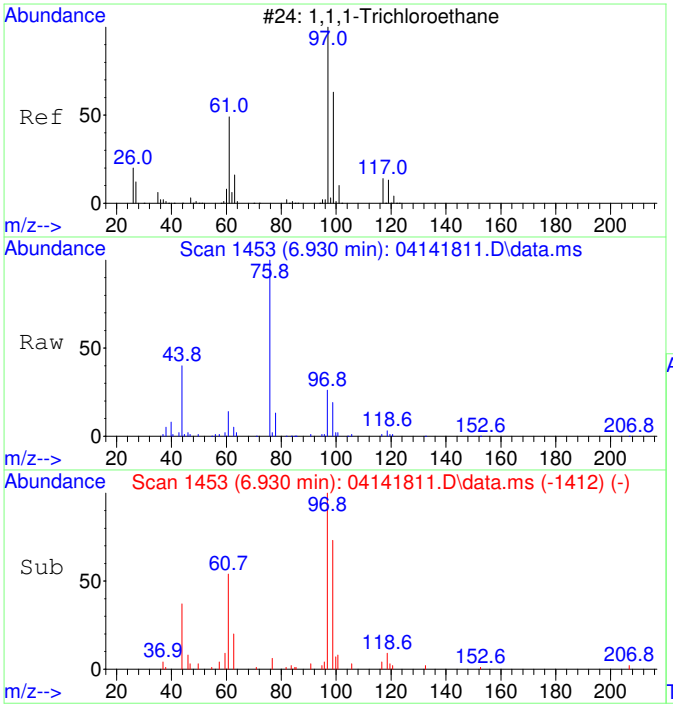


#30
Chloroform SCAN
Concen: 5301.15 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 83 Resp: 13863

Ion	Ratio	Lower	Upper
83	100		
85	85.4	47.8	107.8
47	29.9	8.2	68.2

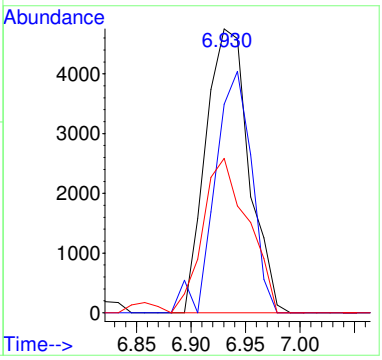


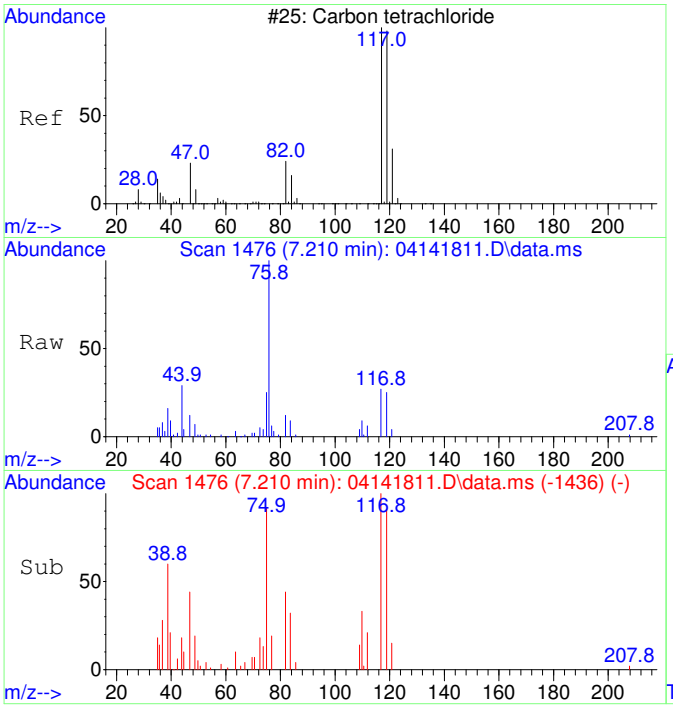


#31
1,1,1-Trichloroethane SCAN
Concen: 4000.11 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 97 Resp: 13127

Ion	Ratio	Lower	Upper
97	100		
99	72.1	18.3	78.3
61	57.1	16.3	76.3

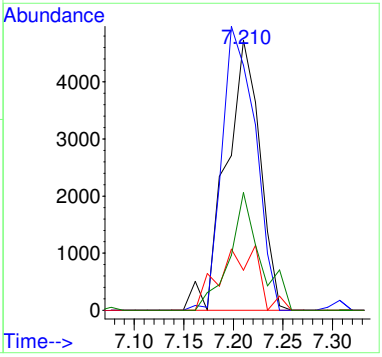


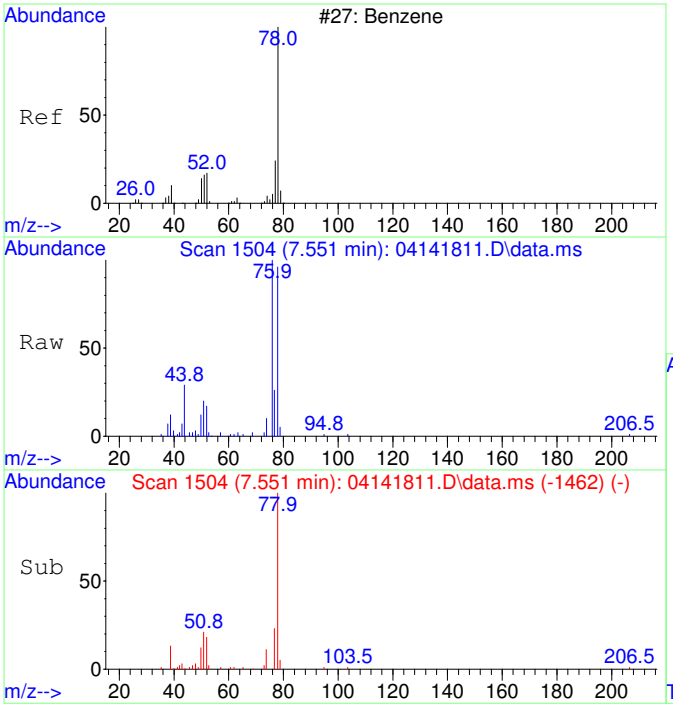


#32
Carbon tetrachloride SCAN
Concen: 4759.05 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:117 Resp: 11233

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	27.5	0.0	53.0
82	39.4	7.9	67.9

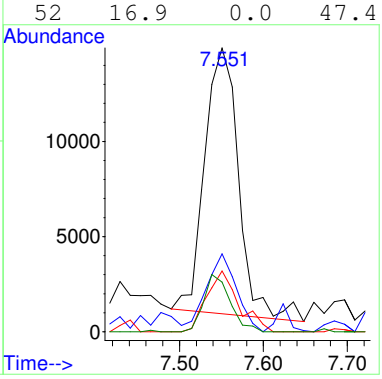


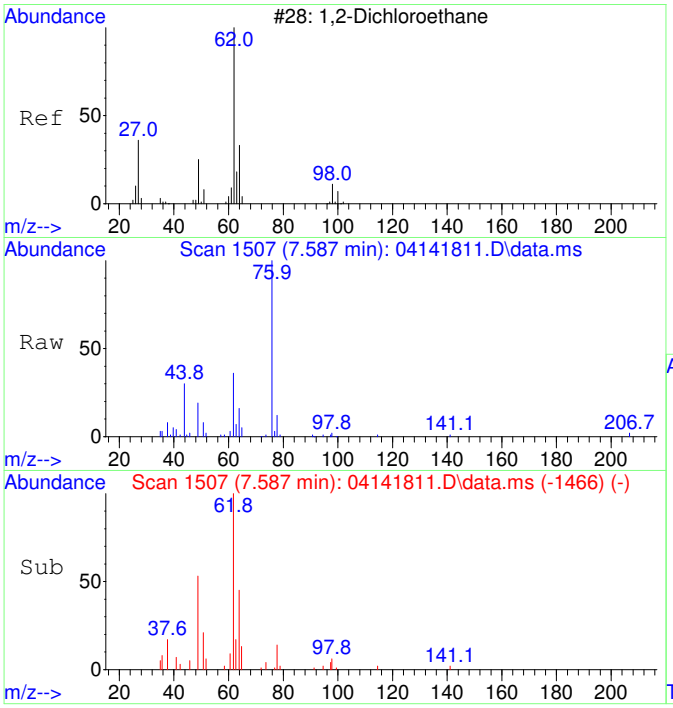


#33
Benzene SCAN
Concen: 5468.22 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 78 Resp: 39124

Ion	Ratio	Lower	Upper
78	100		
77	23.8	5.4	65.4
51	21.7	0.0	47.2
52	16.9	0.0	47.4

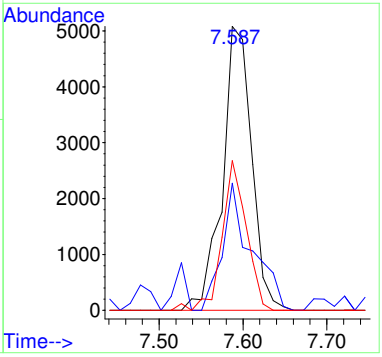


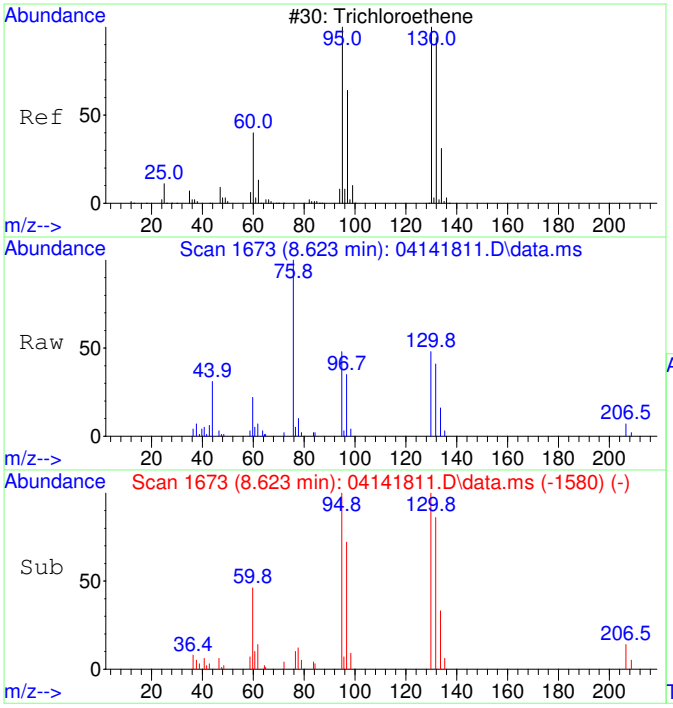


#34
1,2-Dichloroethane SCAN
Concen: 4520.53 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 62 Resp: 12264

Ion	Ratio	Lower	Upper
62	100		
64	44.8	4.4	64.4
49	43.7	1.2	61.2

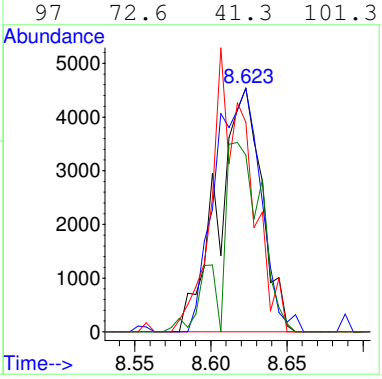


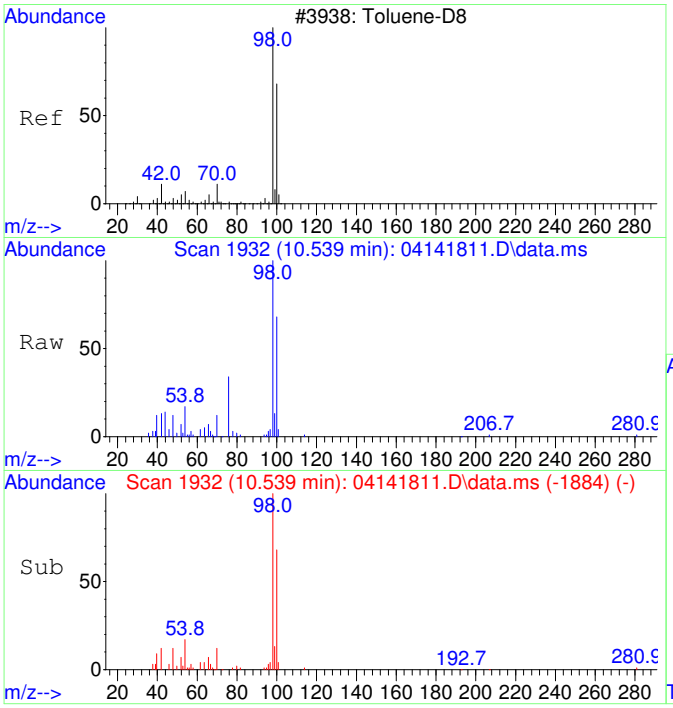


#35
Trichloroethene SCAN
Concen: 5028.32 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. 0.006 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:130 Resp: 9039

Ion	Ratio	Lower	Upper
130	100		
95	105.1	71.3	131.3
132	99.3	75.1	135.1
97	72.6	41.3	101.3

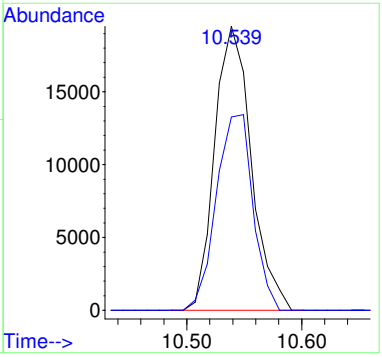


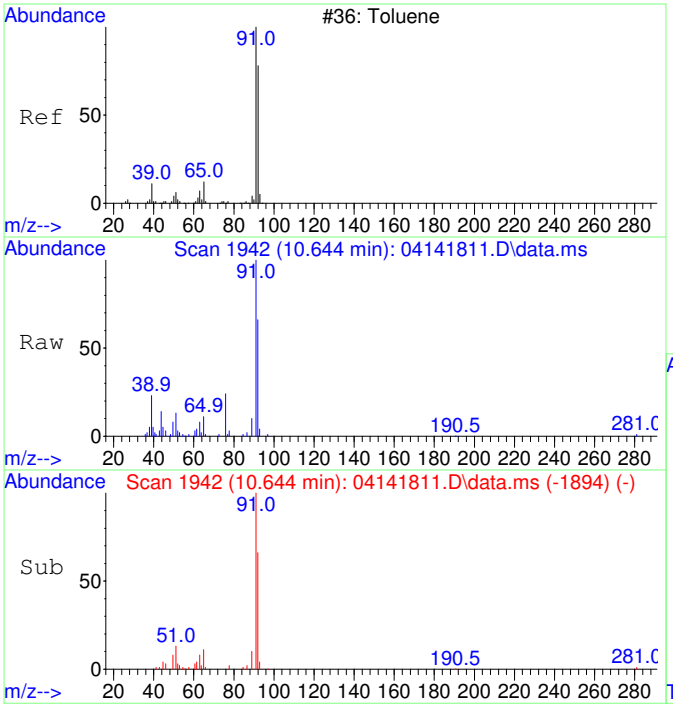


#36
Toluene-d8 SCAN
Concen: 5923.25 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 98 Resp: 43216

Ion	Ratio	Lower	Upper
98	100		
100	69.0	37.3	97.3

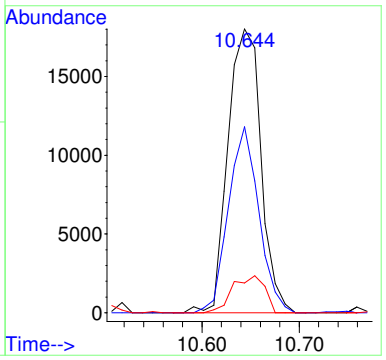


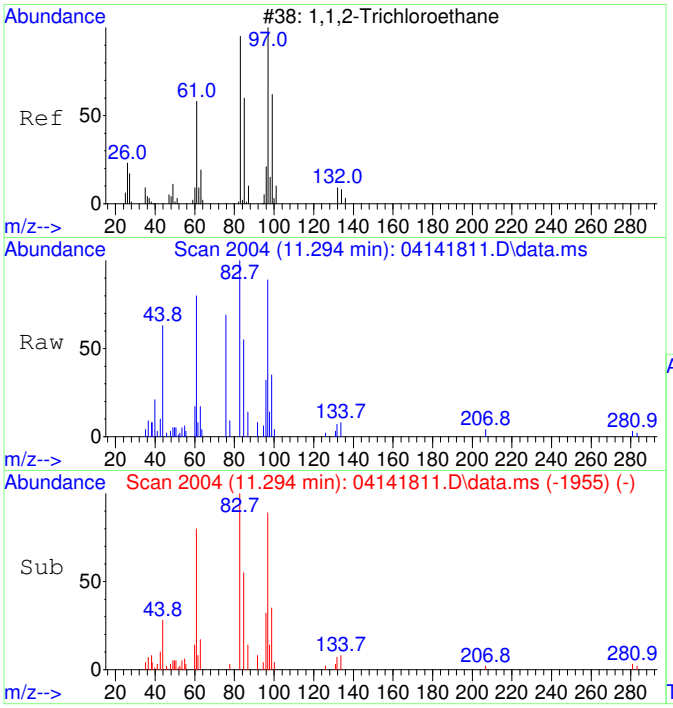


#37
Toluene SCAN
Concen: 5199.52 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 42427

Ion	Ratio	Lower	Upper
91	100		
92	60.6	39.1	99.1
65	12.8	0.0	43.8

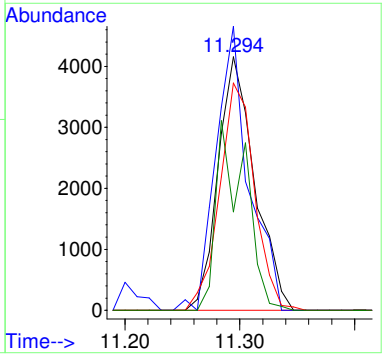


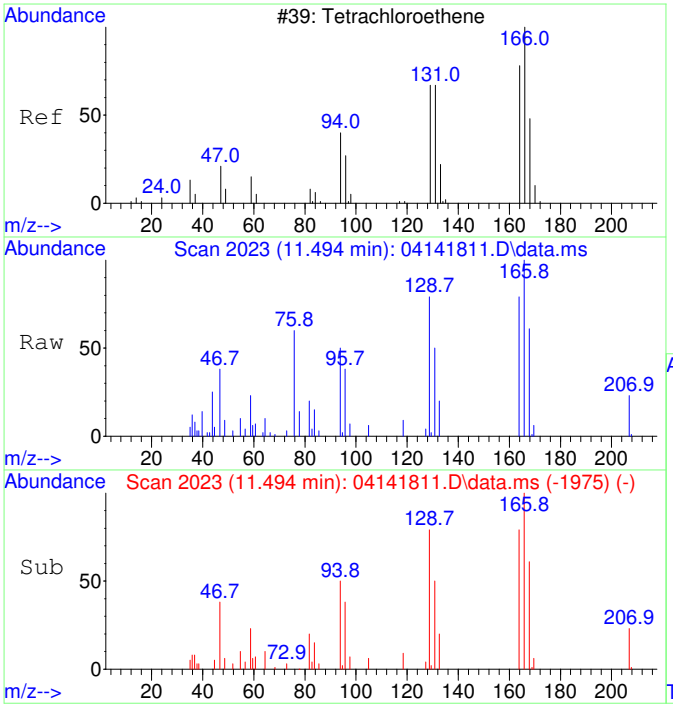


#38
1,1,2-Trichloroethane SCAN
Concen: 3689.99 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.011 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 97 Resp: 9221

Ion	Ratio	Lower	Upper
97	100		
83	100.1	47.4	107.4
61	85.3	29.7	89.7
99	60.1	26.5	86.5

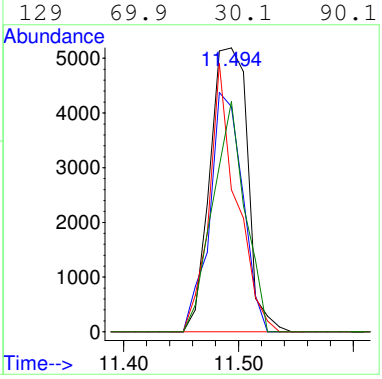


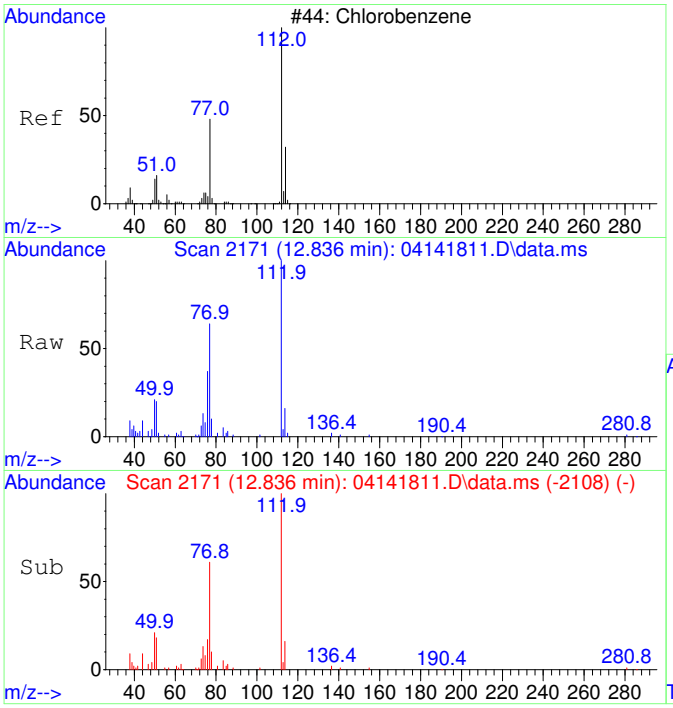


#39
Tetrachloroethene SCAN
Concen: 4453.15 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:166 Resp: 11850

Ion	Ratio	Lower	Upper
166	100		
164	73.9	49.8	109.8
131	68.4	42.0	102.0
129	69.9	30.1	90.1

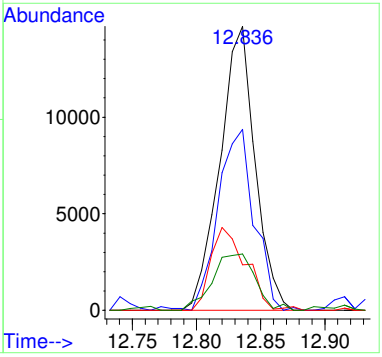


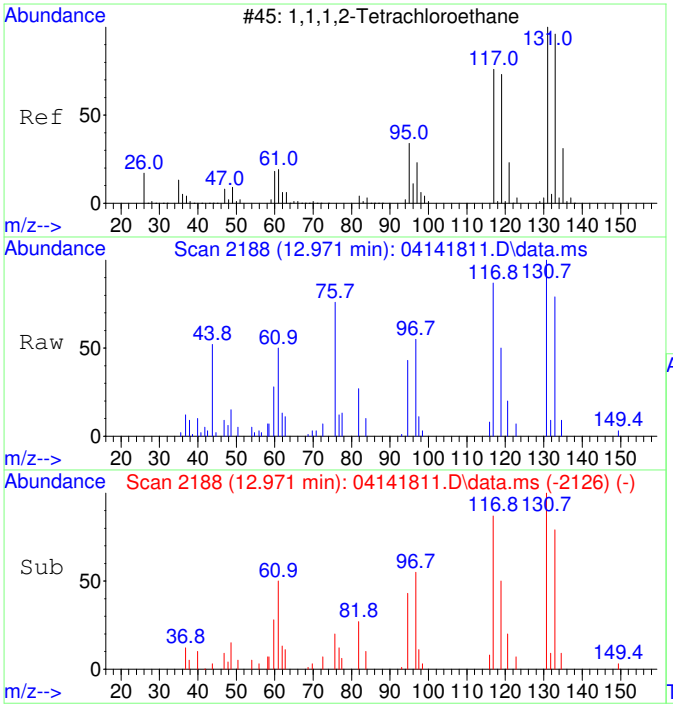


#40
Chlorobenzene SCAN
Concen: 4363.57 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:112 Resp: 27981

Ion	Ratio	Lower	Upper
112	100		
77	64.4	39.7	99.7
114	29.5	1.2	61.2
51	24.2	0.0	57.1

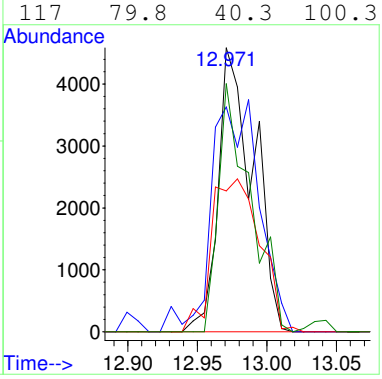


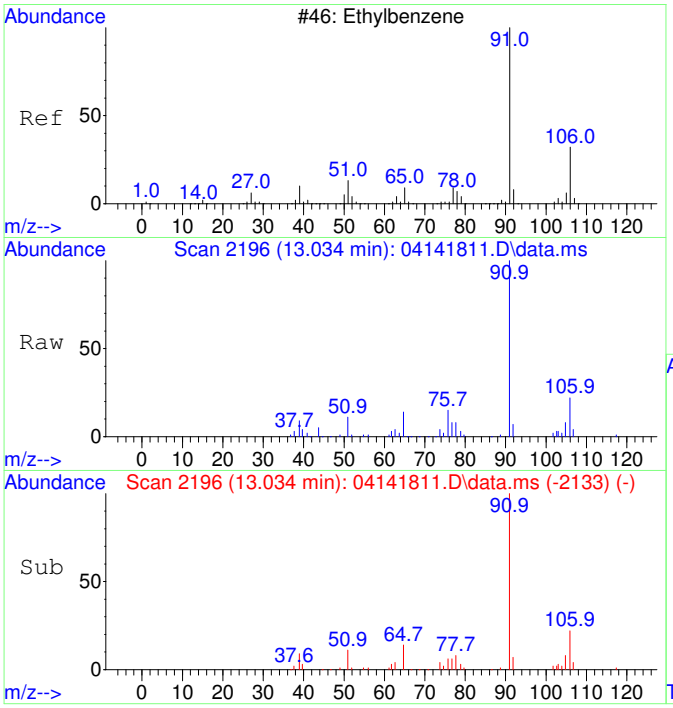


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 3877.34 ug/L
RT: 12.971 min Scan# 2188
Delta R.T. -0.008 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:131 Resp: 8083

Ion	Ratio	Lower	Upper
131	100		
133	109.9	78.7	138.7
119	74.0	43.0	103.0
117	79.8	40.3	100.3

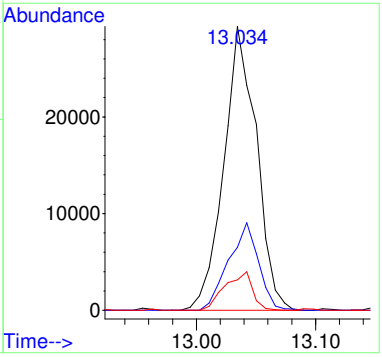


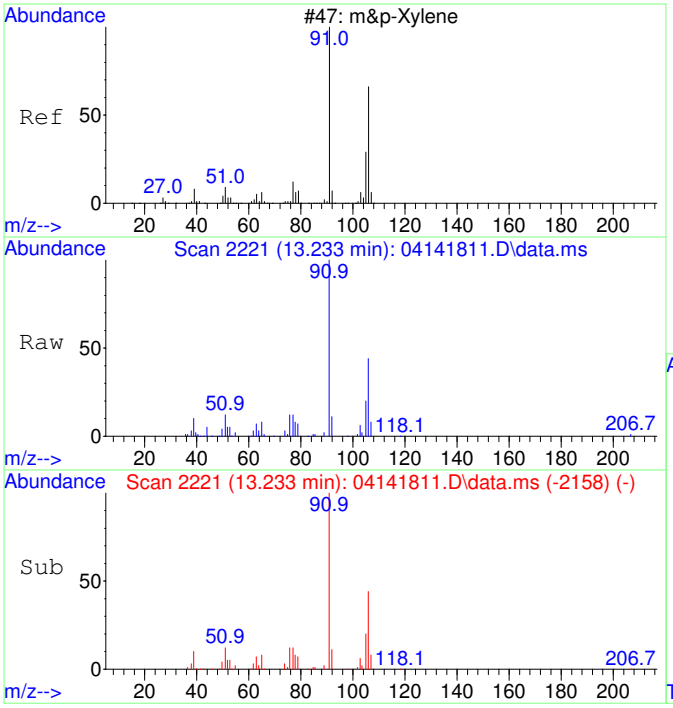


#42
Ethylbenzene SCAN
Concen: 5241.83 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 56066

Ion	Ratio	Lower	Upper
91	100		
106	28.3	1.8	61.8
51	11.5	0.0	45.4

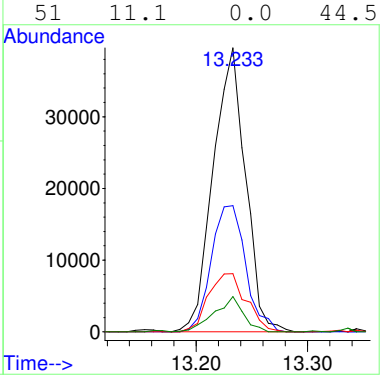


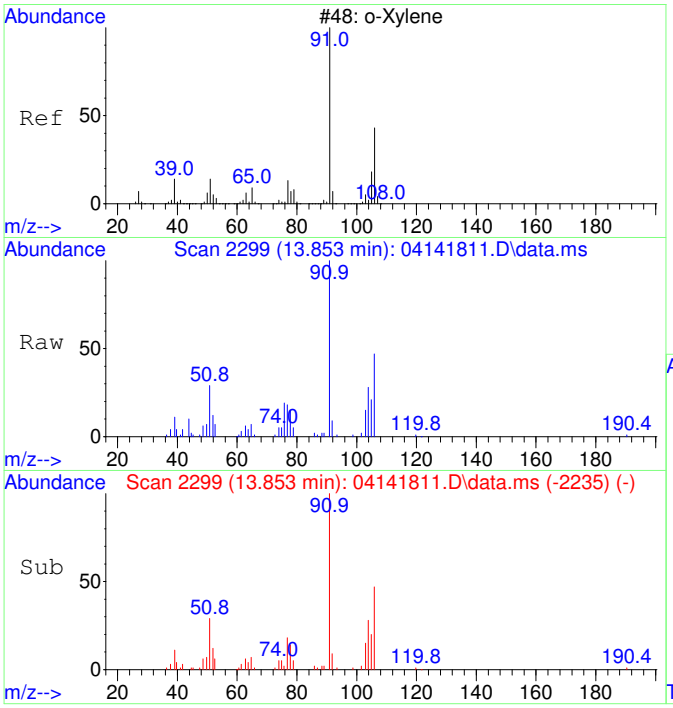


#43
m&p-Xylene SCAN
Concen: 4589.87 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 79893

Ion	Ratio	Lower	Upper
91	100		
106	47.3	14.6	74.6
105	24.0	0.0	52.8
51	11.1	0.0	44.5

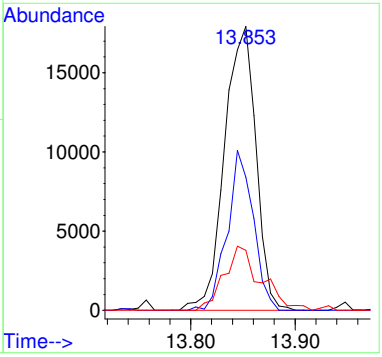


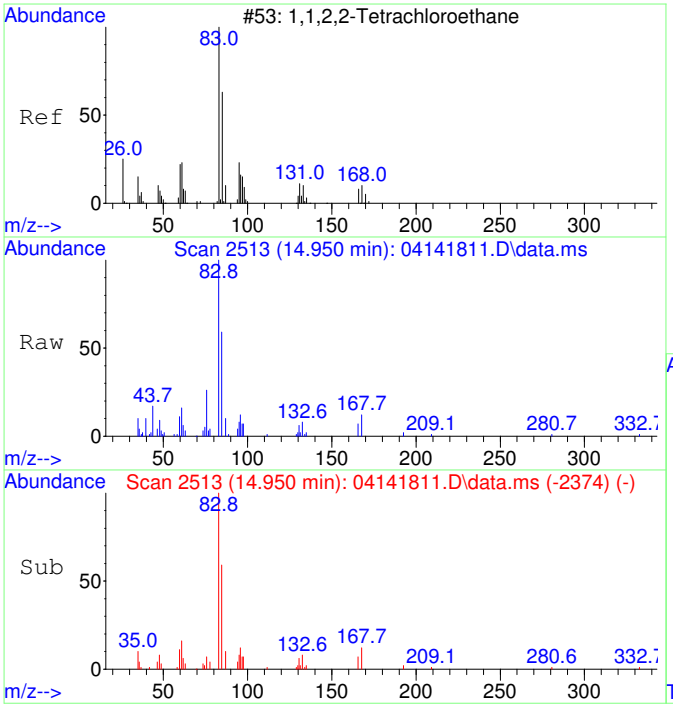


#44
o-Xylene SCAN
Concen: 3970.90 ug/L
RT: 13.853 min Scan# 2299
Delta R.T. 0.008 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 37427

Ion	Ratio	Lower	Upper
91	100		
106	46.6	20.2	80.2
105	26.5	0.0	54.9

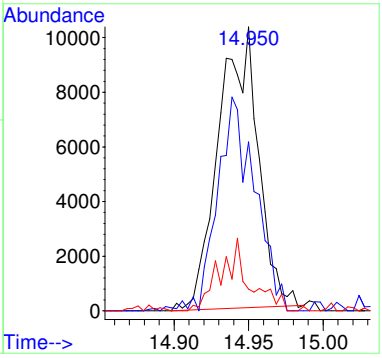


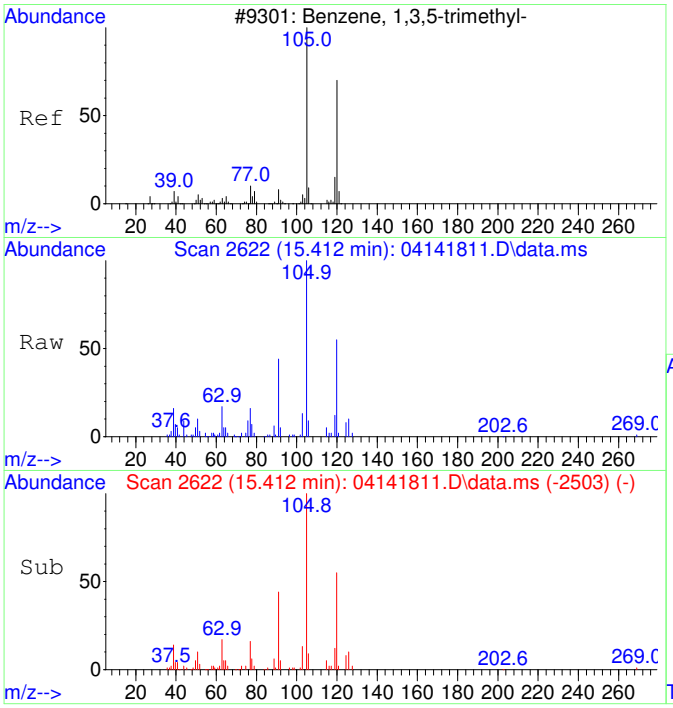


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 3869.74 ug/L
RT: 14.950 min Scan# 2513
Delta R.T. 0.015 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 83 Resp: 19091

Ion	Ratio	Lower	Upper
83	100		
85	70.0	32.4	92.4
95	18.7	0.0	41.2

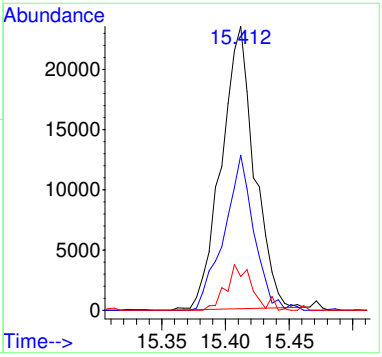


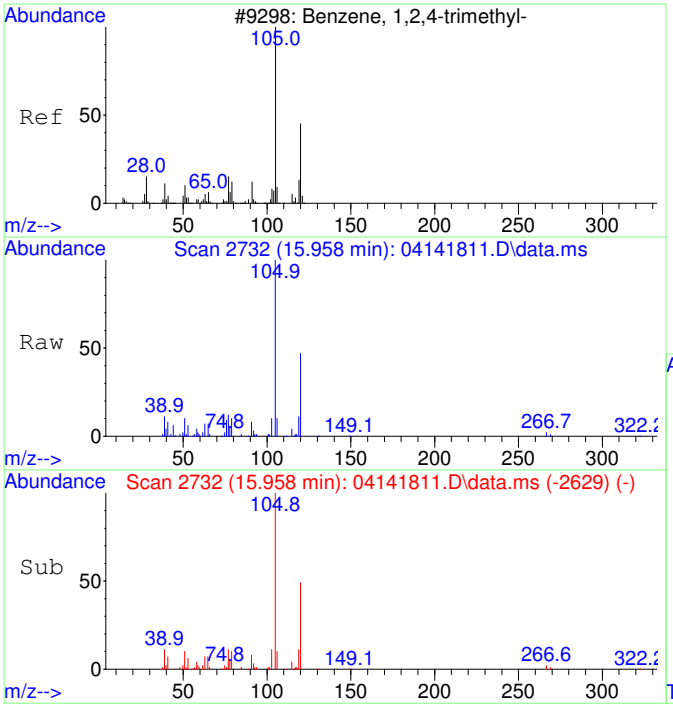


#46
1,3,5-Trimethylbenzene SCAN
Concen: 3926.40 ug/L
RT: 15.412 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:105 Resp: 42536

Ion	Ratio	Lower	Upper
105	100		
120	49.9	16.1	76.1
119	12.7	0.0	41.8

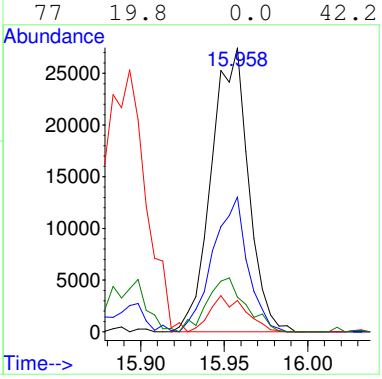


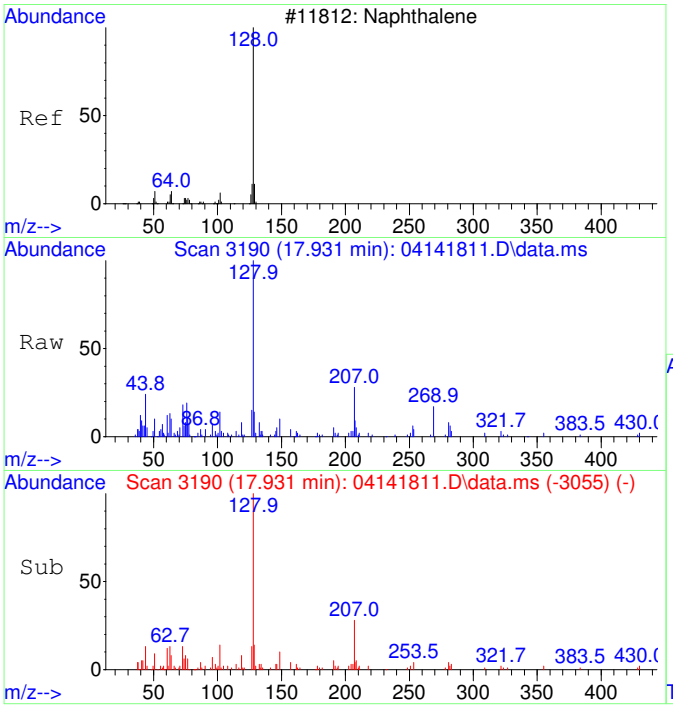


#47
1,2,4-Trimethylbenzene SCAN
Concen: 3863.10 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.010 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:105 Resp: 42185

Ion	Ratio	Lower	Upper
105	100		
120	44.7	12.8	72.8
119	12.1	0.0	42.5
77	19.8	0.0	42.2

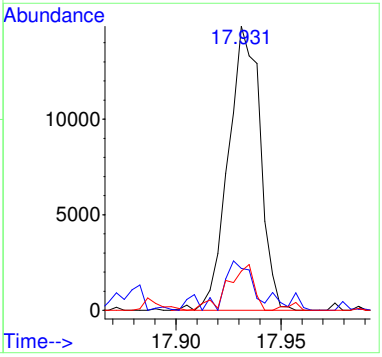


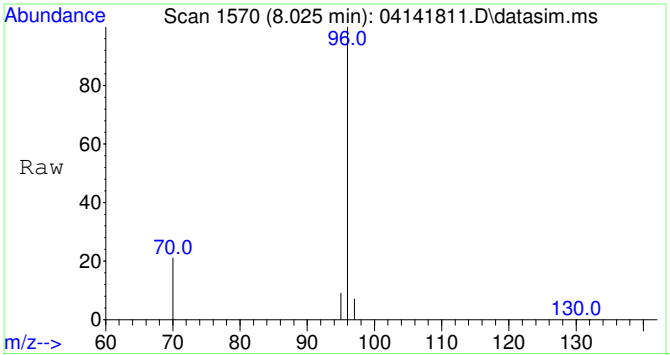


#48
Naphthalene SCAN
Concen: 888.58 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:128 Resp: 15634

Ion	Ratio	Lower	Upper
128	100		
127	14.5	0.0	45.2
129	13.3	0.0	42.0

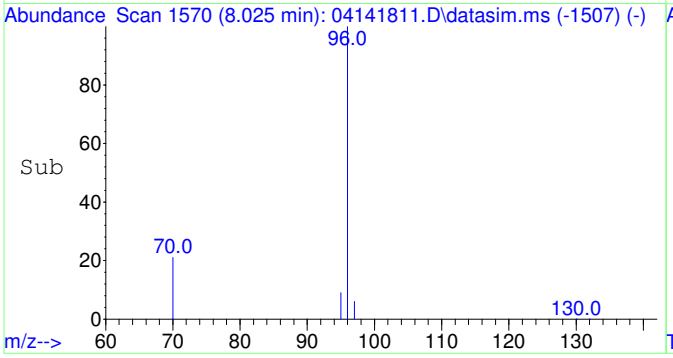


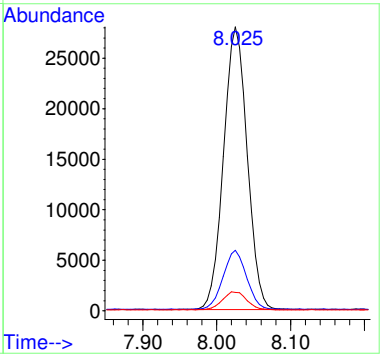


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 96 Resp: 62286

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.7	0.0	36.7





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141811.D
Acq On : 14 Apr 2018 14:49
InstName : AG5975C
Operator : RH
Sample : B18D036-BS1
Misc :
ALS Vial : 11 Sample Multiplier: 1

M.I. Performed By:
RH at 11:51 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:11 pm, Apr 16, 2018

Quant Time: Apr 16 09:38:04 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	85999	5000.00	ug/L	0.00
49) Fluorobenzene	8.025	96	62286	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	74671	5173.02	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.46%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.101	61	17060m	4519.27	ug/L	
3] trans-1,2-Dichloroethene	4.303	61	18237	4727.98	ug/L	100
4] 1,1-Dichloroethane	5.066	63	23988	4670.69	ug/L	100
5] cis-1,2-Dichloroethene	6.095	61	22756	4789.29	ug/L	100
6] Chloroform	6.676	83	25193	4508.40	ug/L	100
7] 1,1,1-Trichloroethane	6.932	97	25587	4689.34	ug/L	99
8] Carbon tetrachloride	7.211	117	22903	4600.85	ug/L	99
9] Benzene	7.540	78	60915	4421.91	ug/L	100
10] 1,2-Dichloroethane	7.589	62	22562	4697.21	ug/L	99
11] Trichloroethene	8.619	130	18077	4762.60	ug/L	100
13] Toluene	10.635	91	78811	4337.90	ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	18240	4544.00	ug/L	100
15] Tetrachloroethene	11.495	166	23015	4621.78	ug/L	99
16] Chlorobenzene	12.829	112	56106	4382.53	ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	20241	4749.29	ug/L	99
18] Ethylbenzene	13.036	91	101490	4920.92	ug/L	100
19] m&p-Xylene	13.226	91	152628	9457.68	ug/L	100
20] o-Xylene	13.846	91	75659	4449.17	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.944	83	35094	4446.29	ug/L	100
22] 1,3,5-Trimethylbenzene	15.408	105	89963	4520.01	ug/L	99
23] 1,2,4-Trimethylbenzene	15.949	105	86736	4284.11	ug/L	100
24] Naphthalene	17.932	128	34549	985.74	ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	47650	5734.22	ug/L	90
26) 1,1-Dichloroethene SCAN	3.100	61	10240	5560.10	ug/L	83
27) trans-1,2-Dichloroethe...	4.308	61	10601	5874.66	ug/L	77
28) 1,1-Dichloroethane SCAN	5.065	63	15301	5541.55	ug/L	93
29) cis-1,2-Dichloroethene...	6.107	61	13988	6453.77	ug/L	82
30) Chloroform SCAN	6.675	83	13863	5301.15	ug/L	90
31) 1,1,1-Trichloroethane ...	6.930	97	13127	4000.11	ug/L	74
32) Carbon tetrachloride SCAN	7.210	117	11233	4759.05	ug/L #	44
33) Benzene SCAN	7.551	78	39124	5468.22	ug/L	87
34) 1,2-Dichloroethane SCAN	7.587	62	12264	4520.53	ug/L	80
35) Trichloroethene SCAN	8.623	130	9039	5028.32	ug/L	96
36) Toluene-d8 SCAN	10.539	98	43216	5923.25	ug/L	98
37) Toluene SCAN	10.644	91	42427	5199.52	ug/L	91
38) 1,1,2-Trichloroethane ...	11.294	97	9221	3689.99	ug/L	78
39) Tetrachloroethene SCAN	11.494	166	11850	4453.15	ug/L	92
40) Chlorobenzene SCAN	12.836	112	27981	4363.57	ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.971	131	8083	3877.34	ug/L	96
42) Ethylbenzene SCAN	13.034	91	56066	5241.83	ug/L	93
43) m&p-Xylene SCAN	13.233	91	79893	4589.87	ug/L	96
44) o-Xylene SCAN	13.853	91	37427	3970.90	ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.950	83	19091	3869.74	ug/L	89
46) 1,3,5-Trimethylbenzene...	15.412	105	42536	3926.40	ug/L	95
47) 1,2,4-Trimethylbenzene...	15.958	105	42185	3863.10	ug/L	94
48) Naphthalene SCAN	17.931	128	15634	888.58	ug/L	98

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

Table of Contents

Quantitation Report (QT Reviewed)

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ata File : 04141811.D
cq On    : 14 Apr 2018  14:49
nstName  : AG5975C
perator  : RH
ample    : B18D036-BS1
isc      :
ALS Vial : 11   Sample Multiplier: 1

Quant Time: Apr 16 09:38:04 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title  : Volatile Organic Analysis  -  Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration
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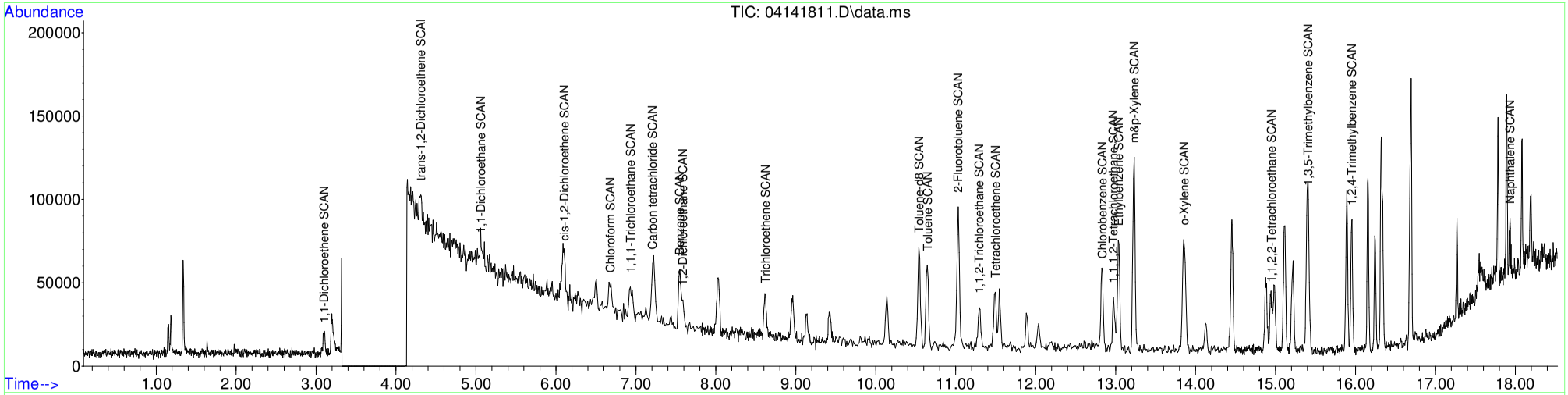
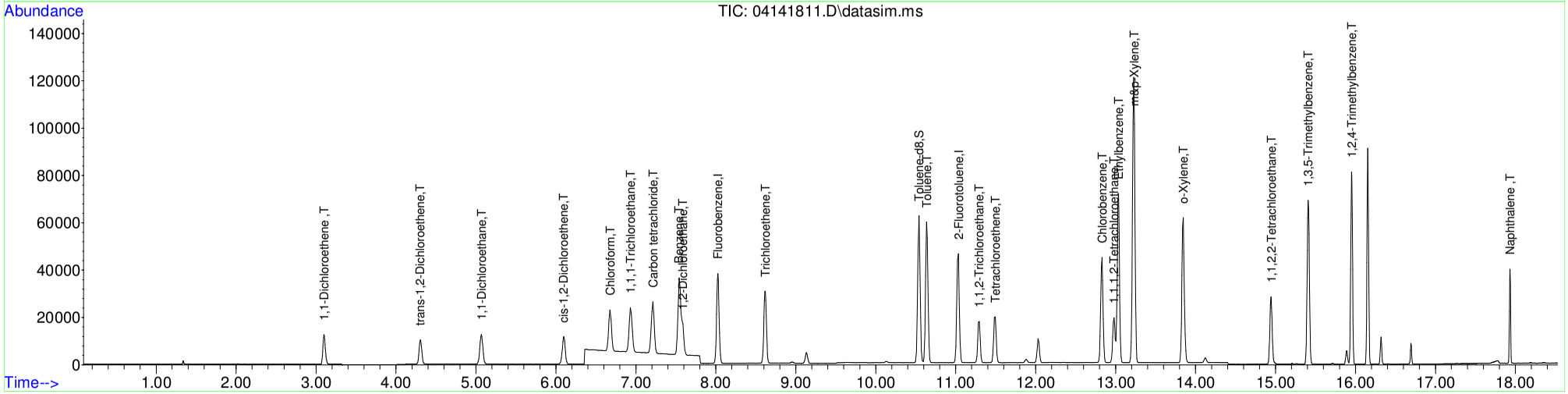
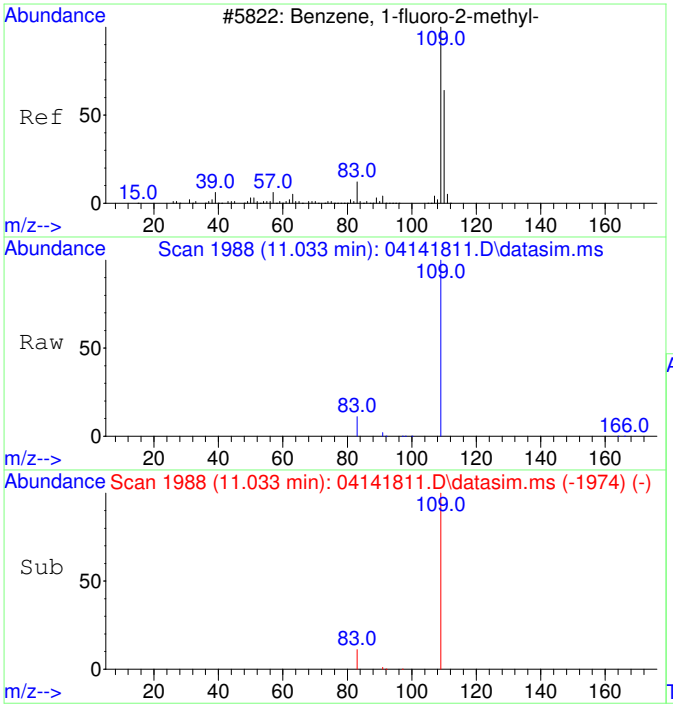


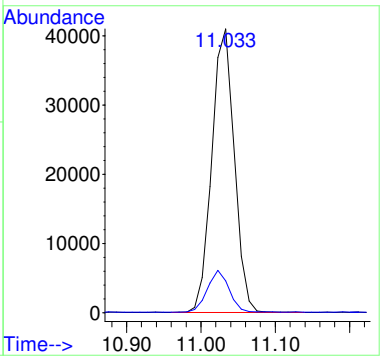


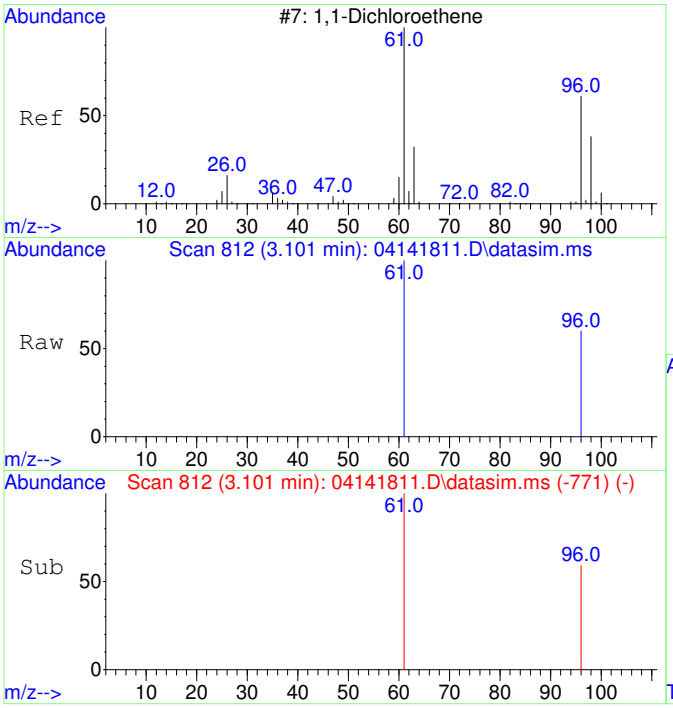


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:109 Resp: 85999

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	44.4

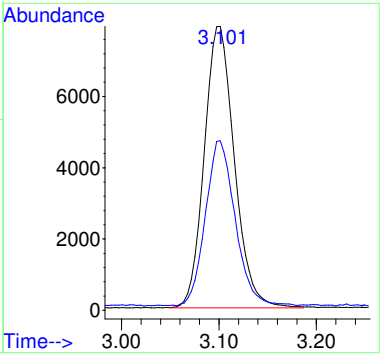


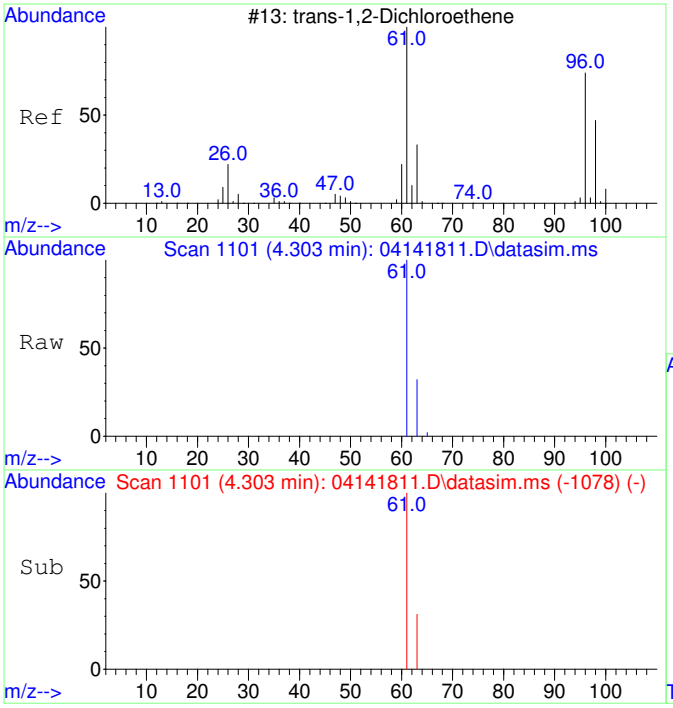


#2
1,1-Dichloroethene
Concen: 4519.27 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. 0.004 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 17060

Ion	Ratio	Lower	Upper
61	100		
96	57.4	26.1	86.1

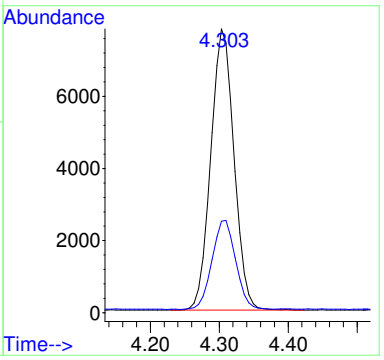


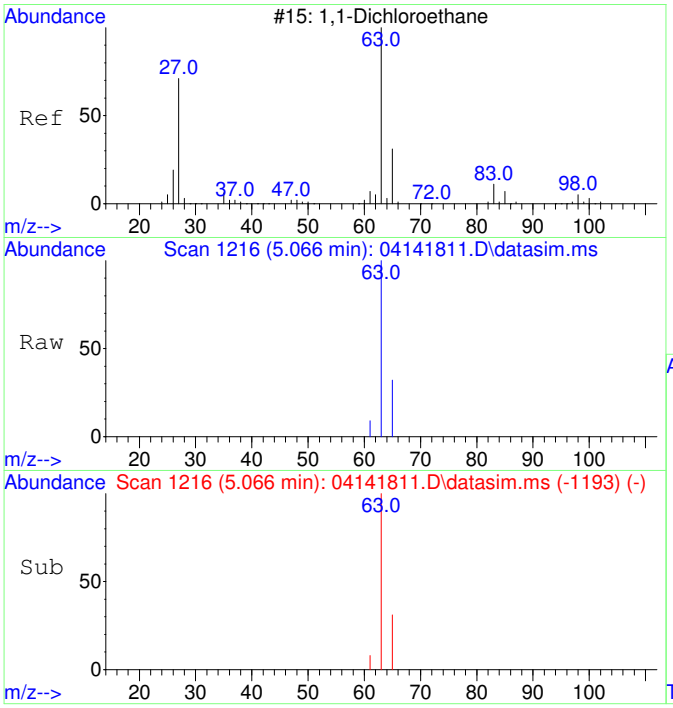


#3
trans-1,2-Dichloroethene
Concen: 4727.98 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 18237

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

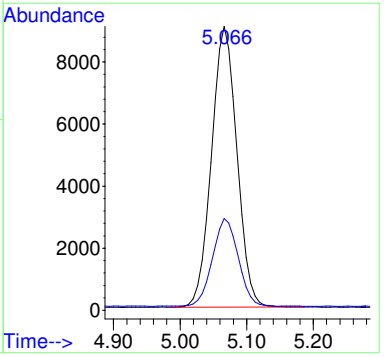


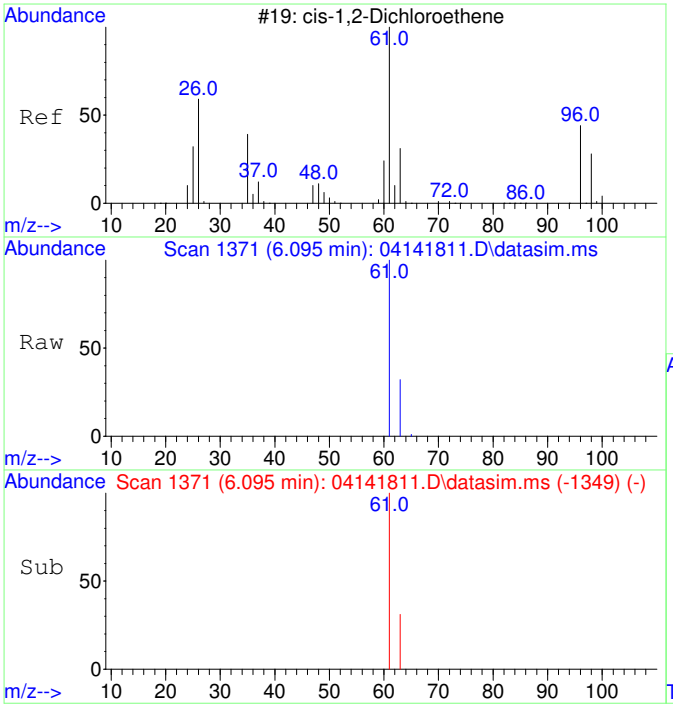


#4
1,1-Dichloroethane
Concen: 4670.69 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 63 Resp: 23988

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.8	61.8

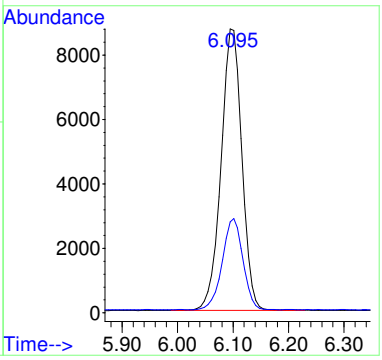


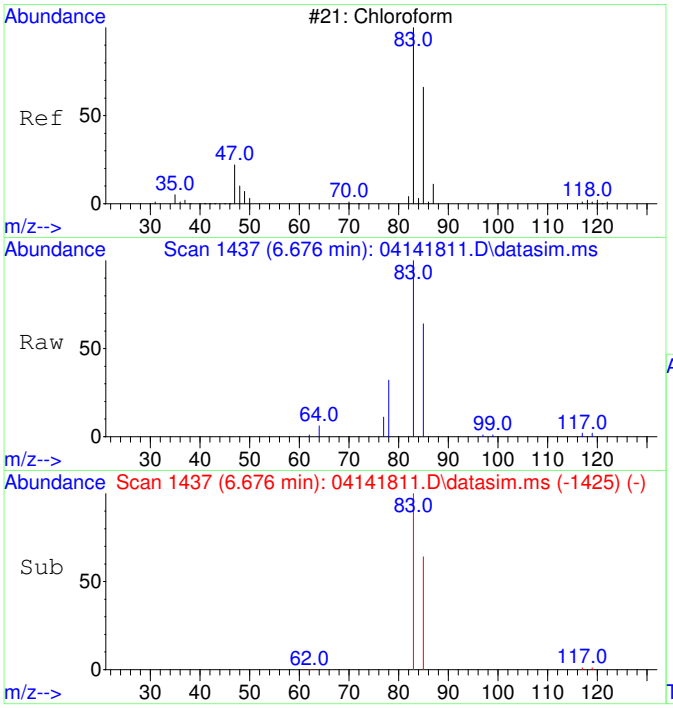


#5
cis-1,2-Dichloroethene
Concen: 4789.29 ug/L
RT: 6.095 min Scan# 1371
Delta R.T. -0.006 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 22756

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.0	62.0

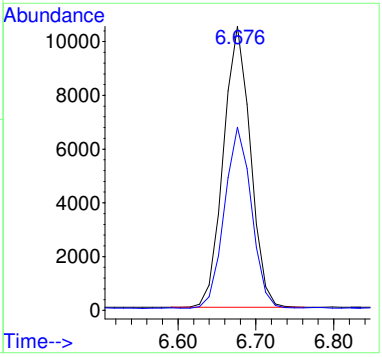


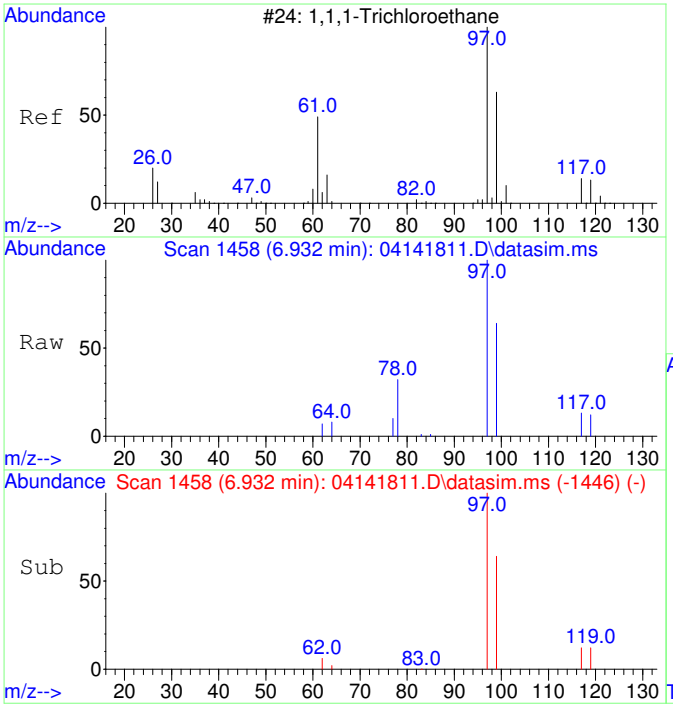


#6
Chloroform
Concen: 4508.40 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 83 Resp: 25193

Ion	Ratio	Lower	Upper
83	100		
85	64.2	34.2	94.2

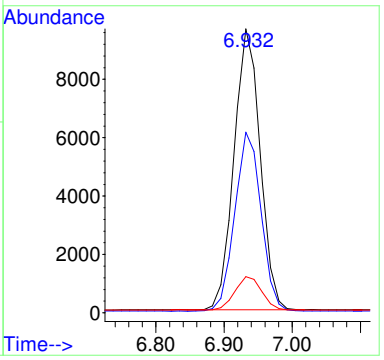


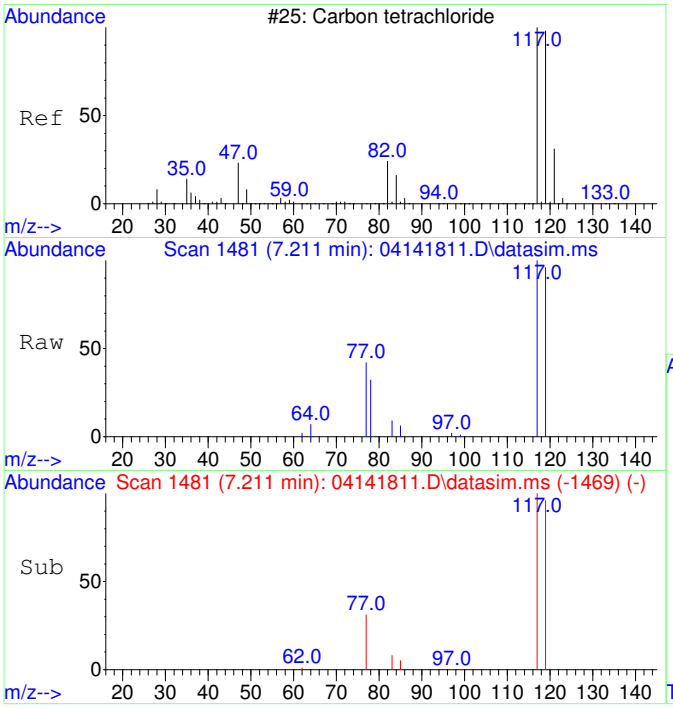


#7
1,1,1-Trichloroethane
Concen: 4689.34 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 97 Resp: 25587

Ion	Ratio	Lower	Upper
97	100		
99	64.0	34.5	94.5
117	12.3	0.0	42.6

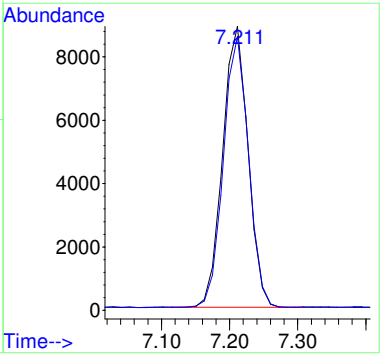


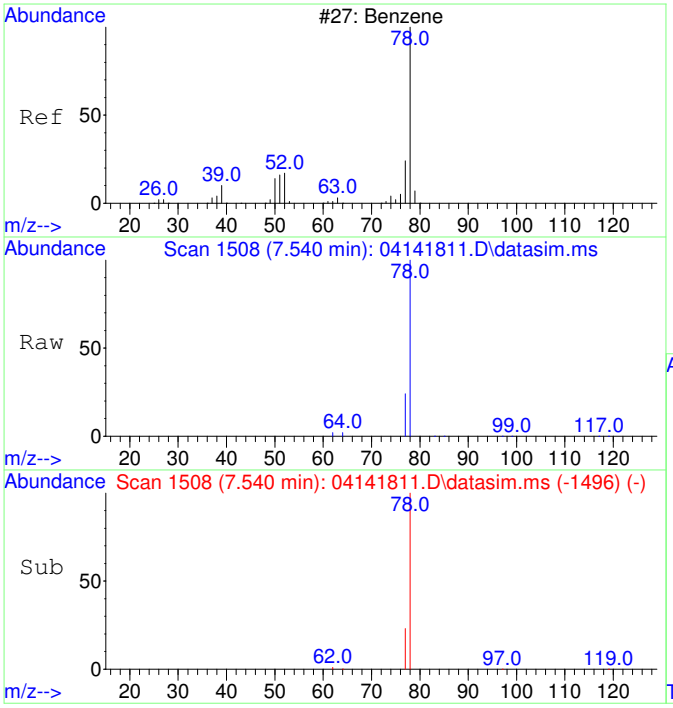


#8
Carbon tetrachloride
Concen: 4600.85 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:117 Resp: 22903

Ion	Ratio	Lower	Upper
117	100		
119	95.5	64.5	124.5

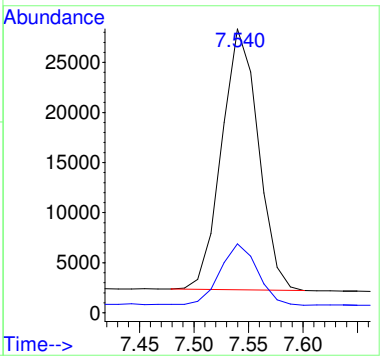


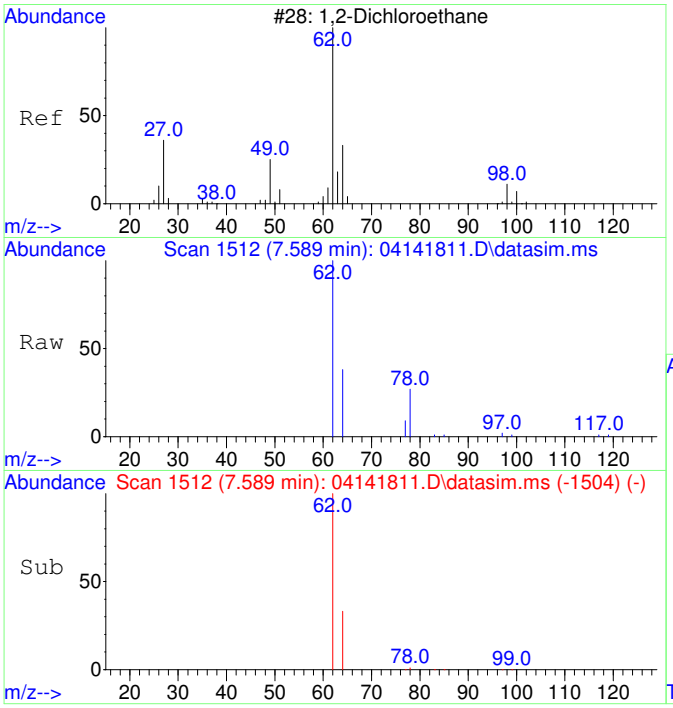


#9
Benzene
Concen: 4421.91 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 78 Resp: 60915

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.6

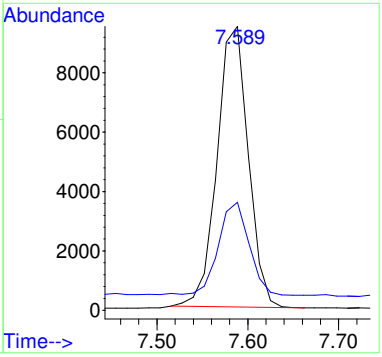


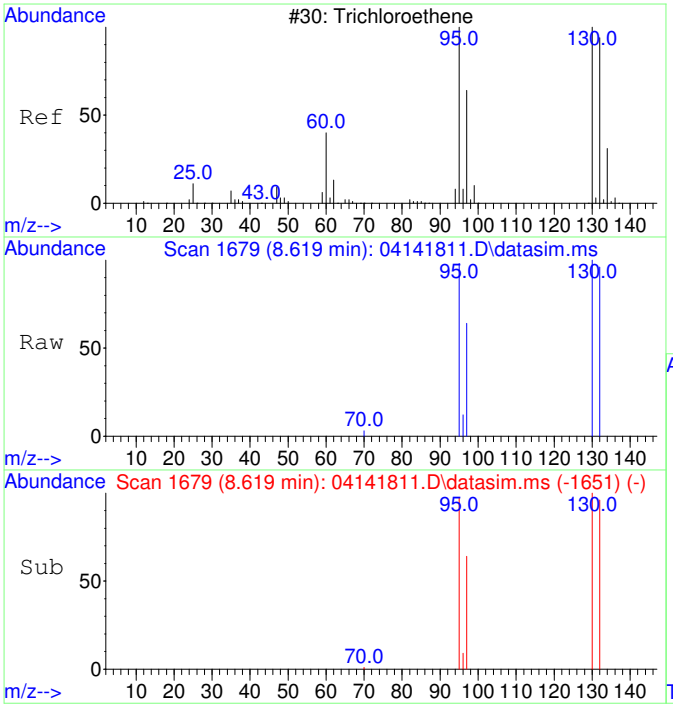


#10
1,2-Dichloroethane
Concen: 4697.21 ug/L
RT: 7.589 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 62 Resp: 22562

Ion	Ratio	Lower	Upper
62	100		
64	32.5	1.8	61.8

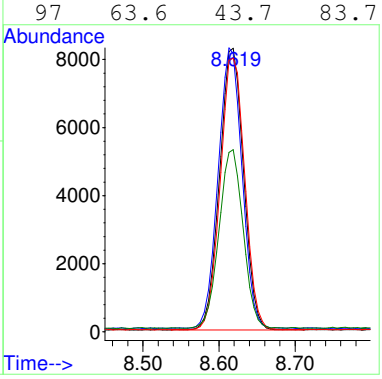


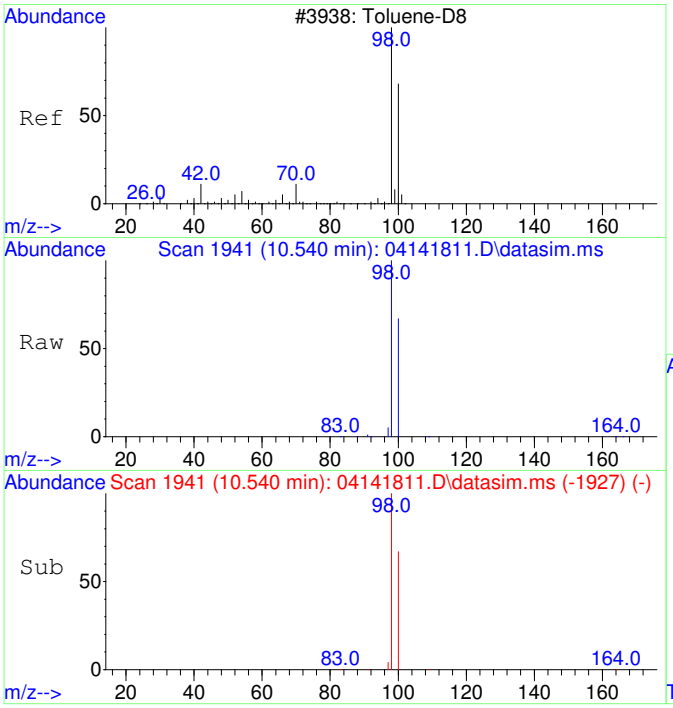


#11
Trichloroethene
Concen: 4762.60 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:130 Resp: 18077

Ion	Ratio	Lower	Upper
130	100		
95	98.9	68.8	128.8
132	98.4	78.6	118.6
97	63.6	43.7	83.7

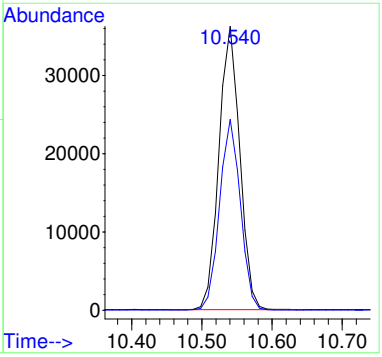


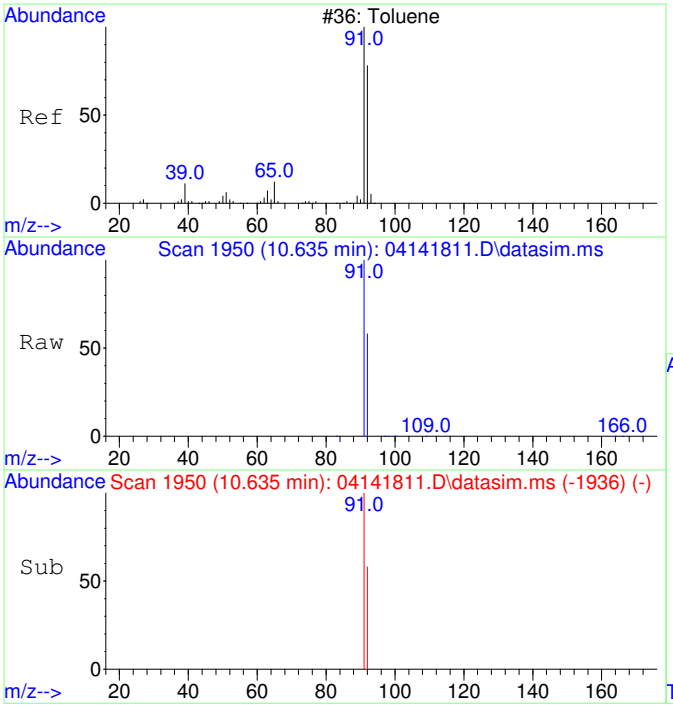


#12
Toluene-d8
Concen: 5173.02 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 98 Resp: 74671

Ion	Ratio	Lower	Upper
98	100		
100	66.9	36.9	96.9

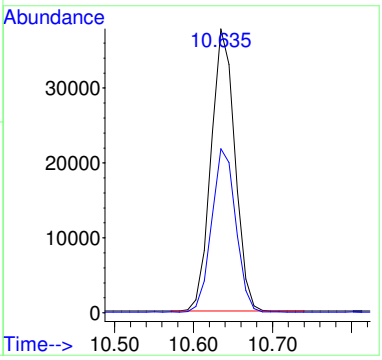


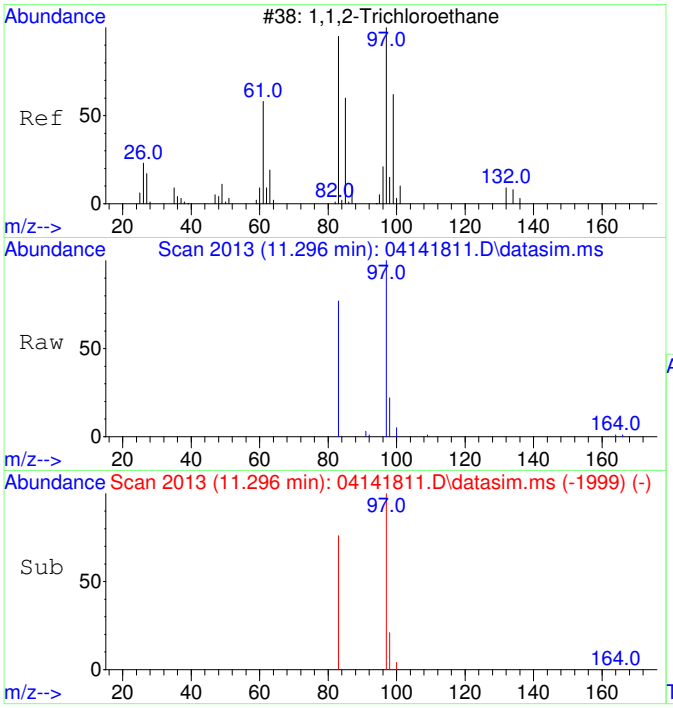


#13
Toluene
Concen: 4337.90 ug/L
RT: 10.635 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 78811

Ion	Ratio	Lower	Upper
91	100		
92	58.5	28.8	88.8

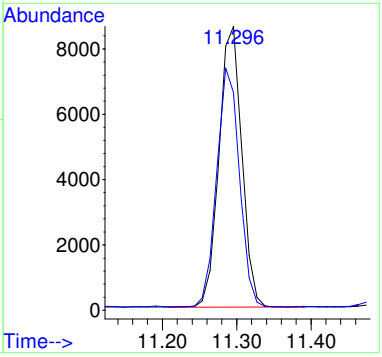


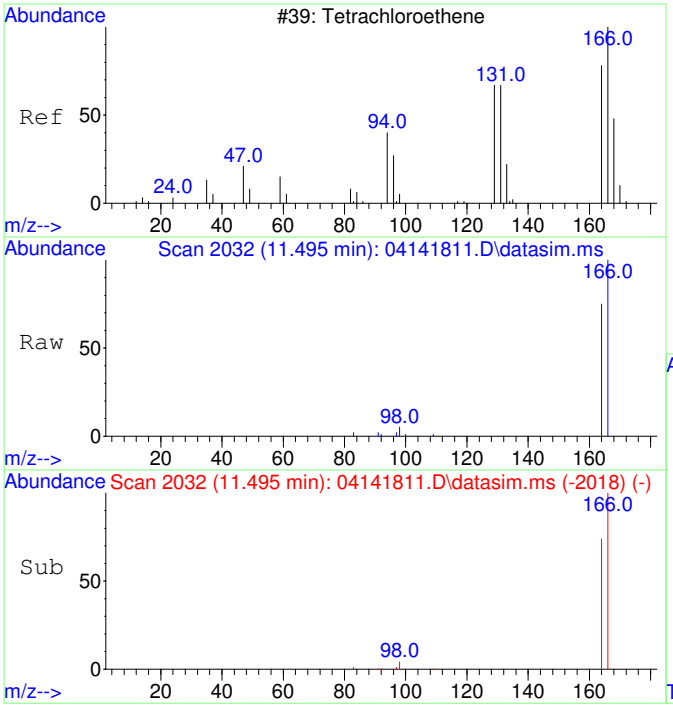


#14
1,1,2-Trichloroethane
Concen: 4544.00 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 97 Resp: 18240

Ion	Ratio	Lower	Upper
97	100		
83	84.7	54.3	114.3

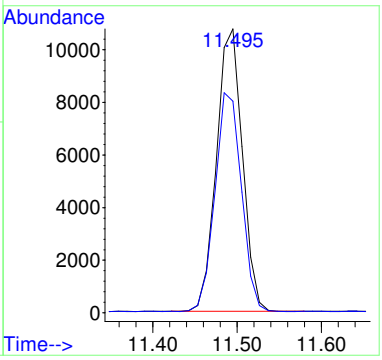


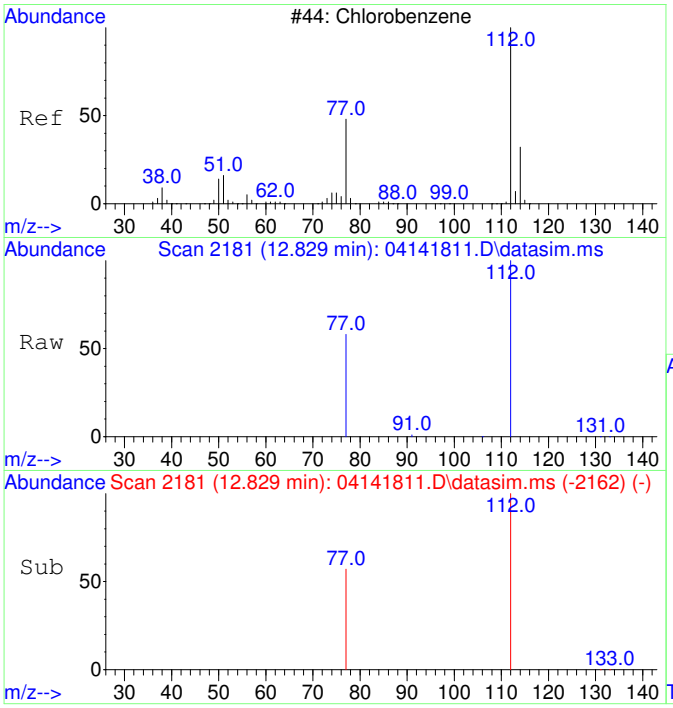


#15
Tetrachloroethene
Concen: 4621.78 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:166 Resp: 23015

Ion	Ratio	Lower	Upper
166	100		
164	79.0	48.0	108.0

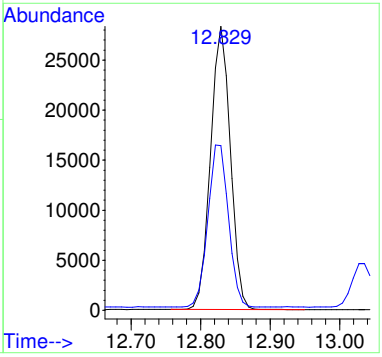


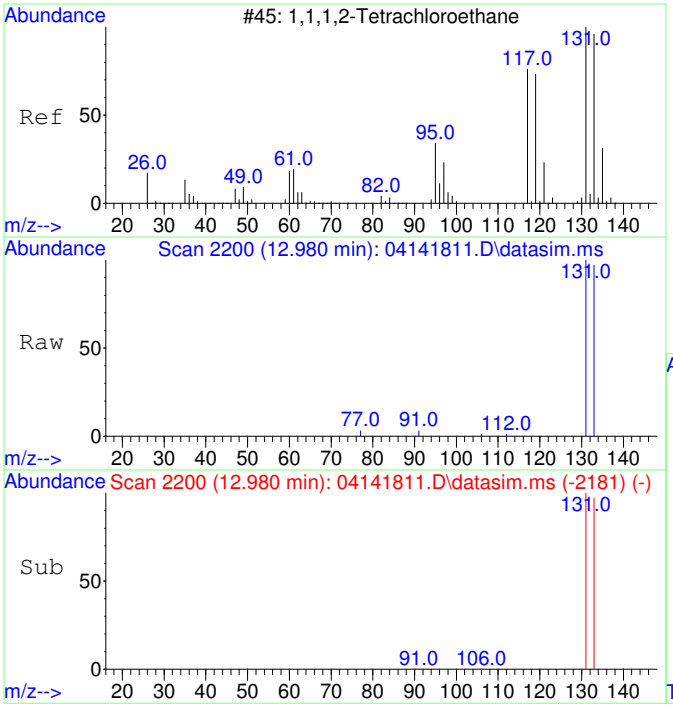


#16
Chlorobenzene
Concen: 4382.53 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:112 Resp: 56106

Ion	Ratio	Lower	Upper
112	100		
77	59.4	29.4	89.4

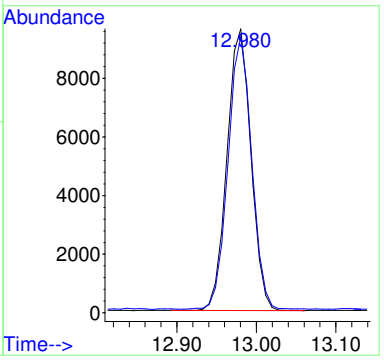


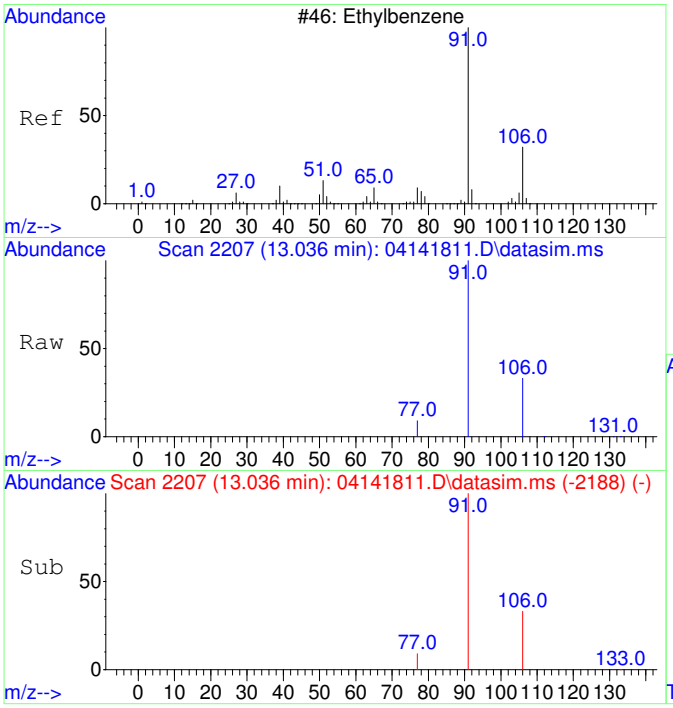


#17
1,1,1,2-Tetrachloroethane
Concen: 4749.29 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:131 Resp: 20241

Ion	Ratio	Lower	Upper
131	100		
133	95.6	65.1	125.1

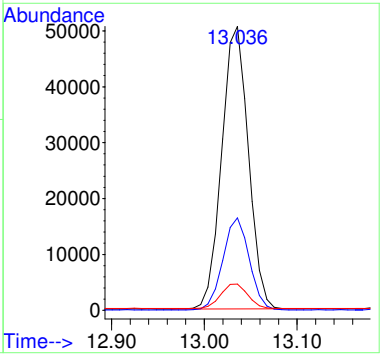


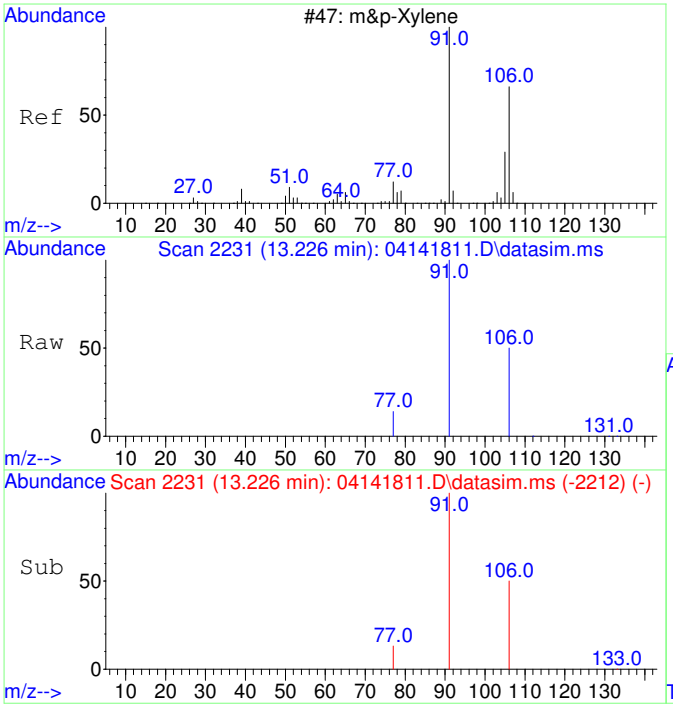


#18
Ethylbenzene
Concen: 4920.92 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 101490

Ion	Ratio	Lower	Upper
91	100		
106	32.0	1.8	61.8
77	8.9	0.0	38.7

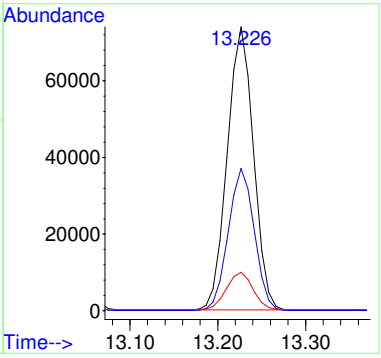


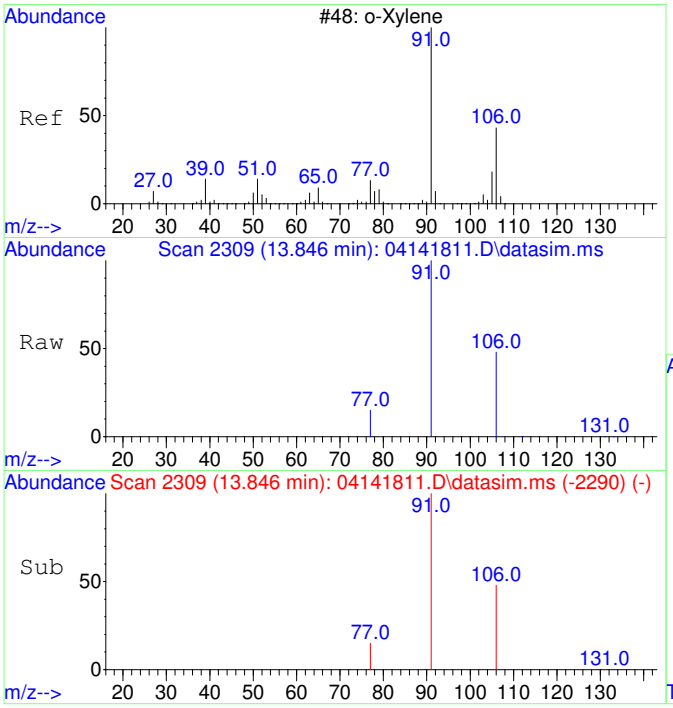


#19
m&p-Xylene
Concen: 9457.68 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 152628

Ion	Ratio	Lower	Upper
91	100		
106	49.8	20.0	80.0
77	13.3	0.0	43.4

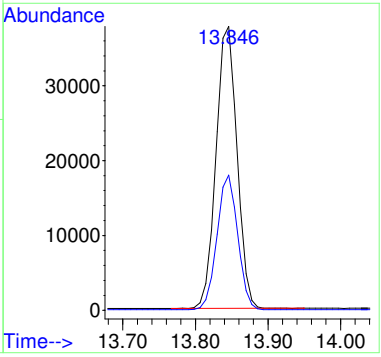


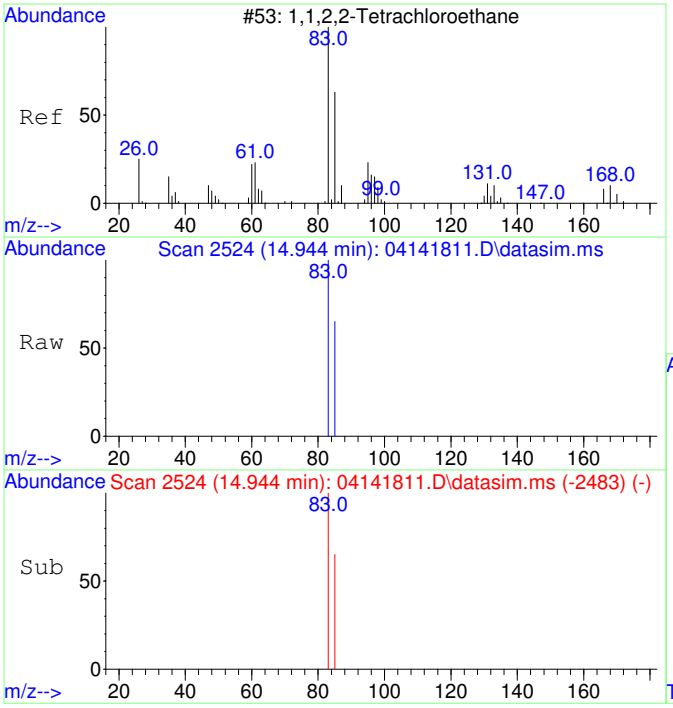


#20
o-Xylene
Concen: 4449.17 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 75659

Ion	Ratio	Lower	Upper
91	100		
106	47.1	16.9	76.9

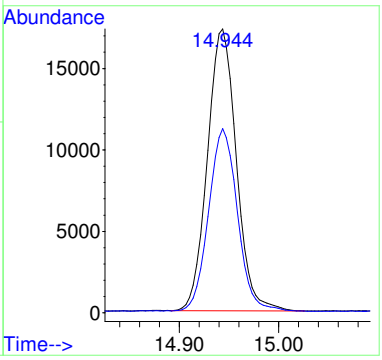


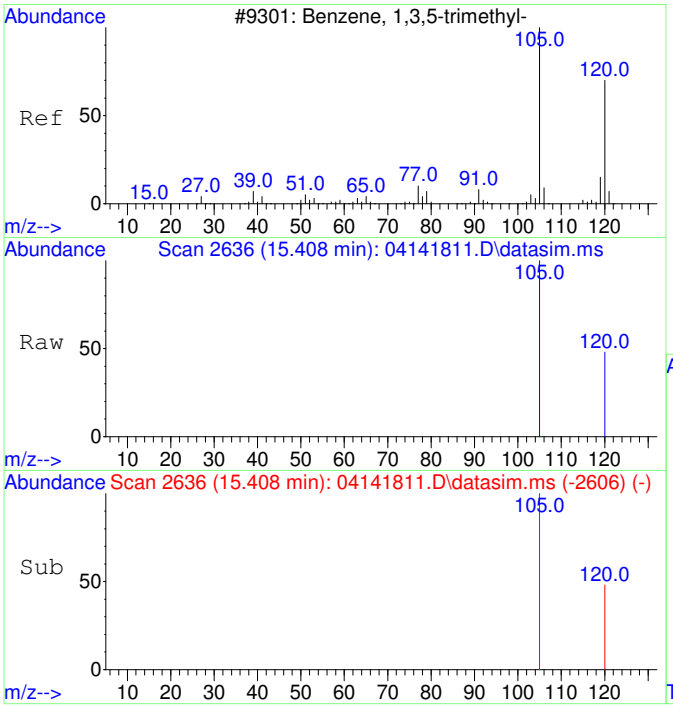


#21
1,1,2,2-Tetrachloroethane
Concen: 4446.29 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 83 Resp: 35094

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.3	94.3

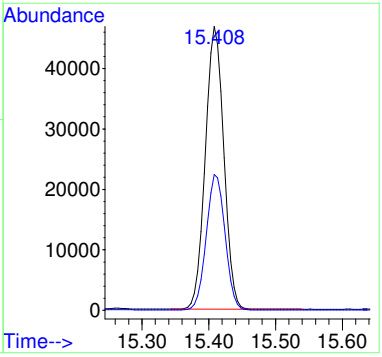


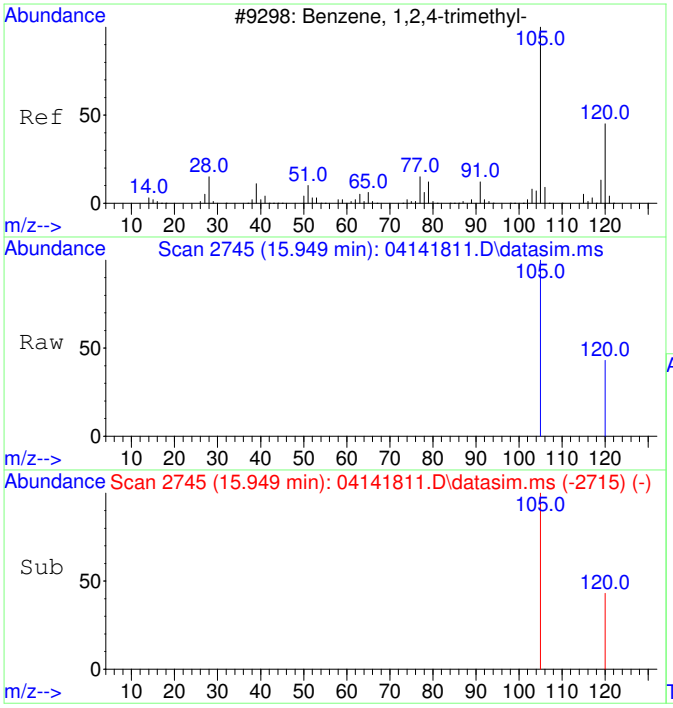


#22
1,3,5-Trimethylbenzene
Concen: 4520.01 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:105 Resp: 89963

Ion	Ratio	Lower	Upper
105	100		
120	48.5	18.1	78.1

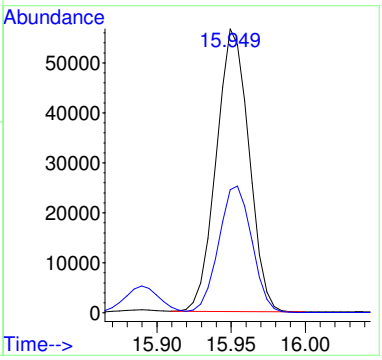


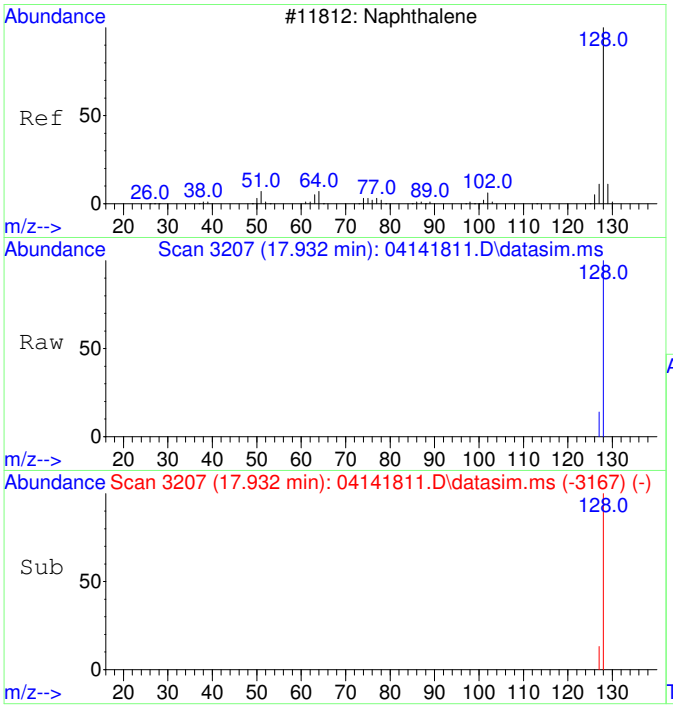


#23
1,2,4-Trimethylbenzene
Concen: 4284.11 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:105 Resp: 86736

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.5	74.5

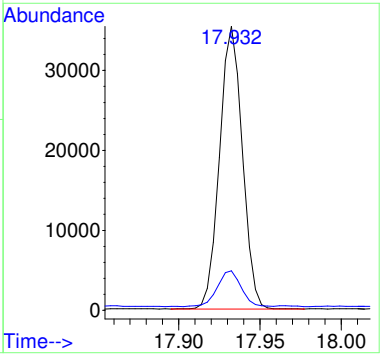


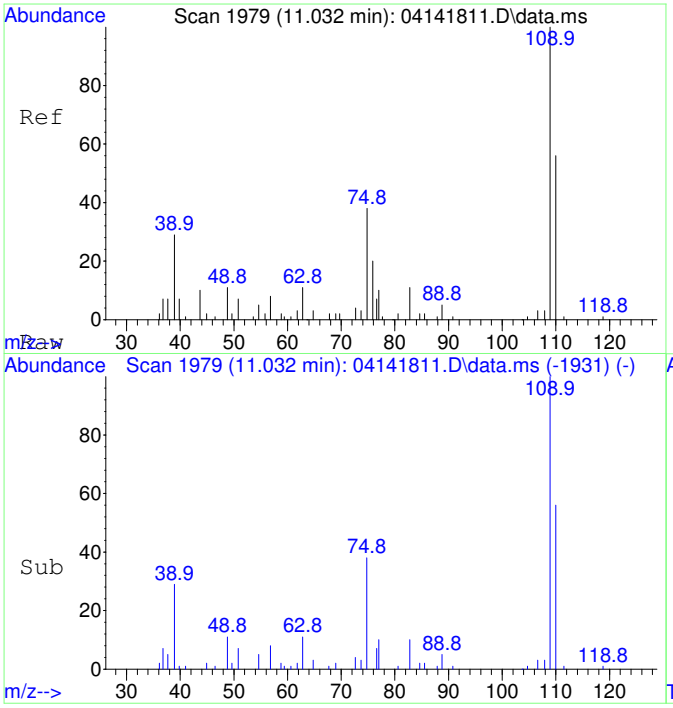


#24
Naphthalene
Concen: 985.74 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:128 Resp: 34549

Ion	Ratio	Lower	Upper
128	100		
127	13.1	0.0	42.7

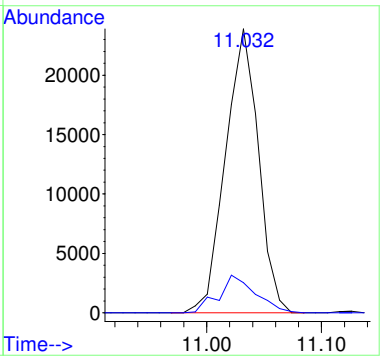


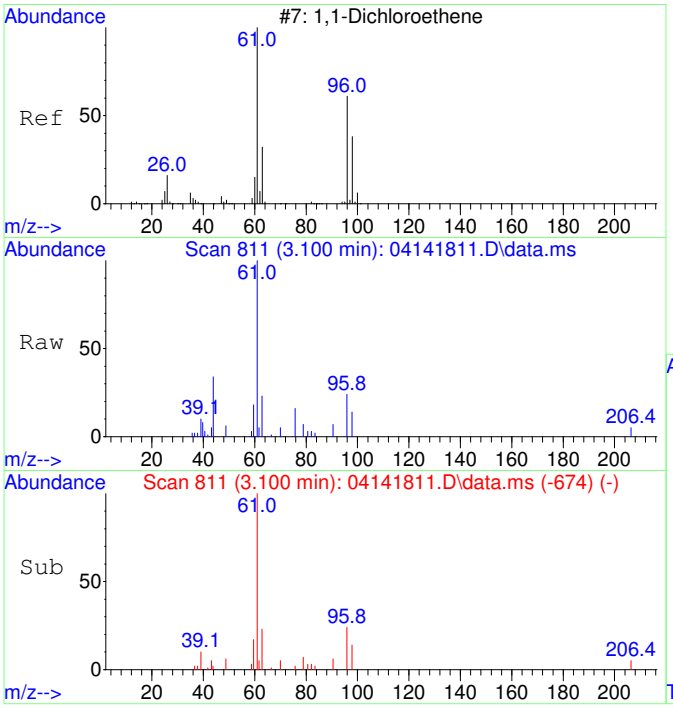


#25
2-Fluorotoluene SCAN
Concen: 5734.22 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:109 Resp: 47650

Ion	Ratio	Lower	Upper
109	100		
83	14.8	0.0	49.2

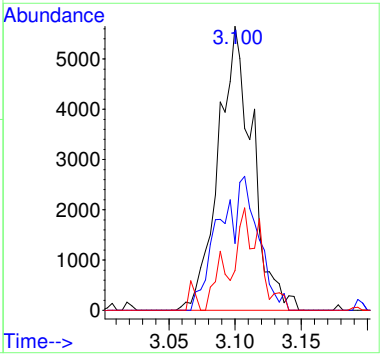


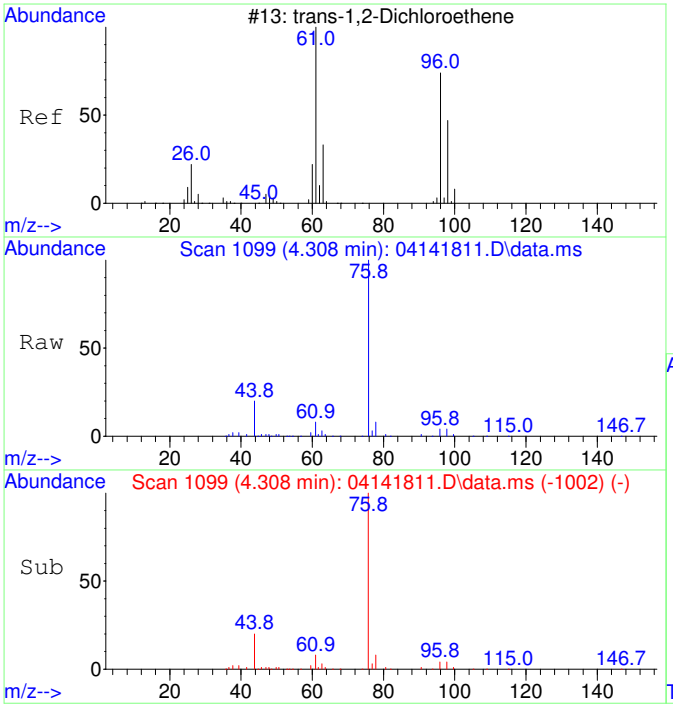


#26
1,1-Dichloroethene SCAN
Concen: 5560.10 ug/L
RT: 3.100 min Scan# 811
Delta R.T. 0.008 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 10240

Ion	Ratio	Lower	Upper
61	100		
96	53.3	21.6	81.6
98	15.5	7.5	67.5

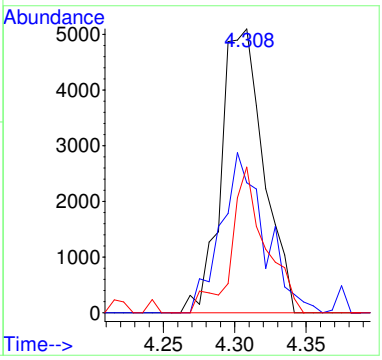


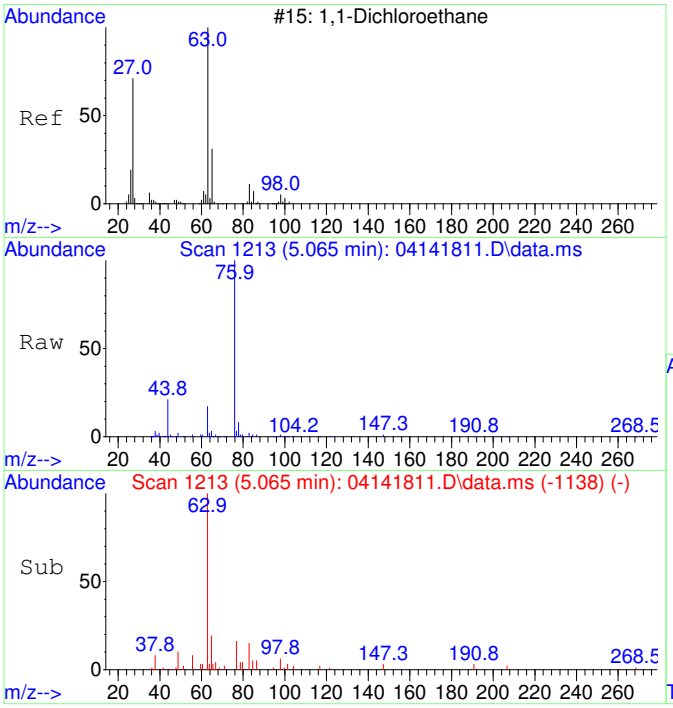


#27
trans-1,2-Dichloroethene SCAN
Concen: 5874.66 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 10601

Ion	Ratio	Lower	Upper
61	100		
96	57.9	51.8	111.8
98	41.1	22.7	82.7

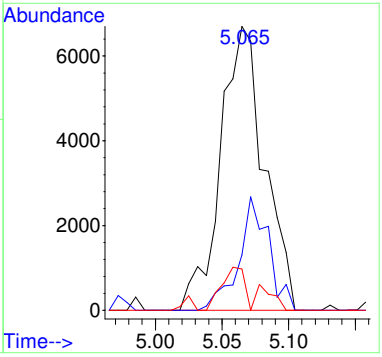


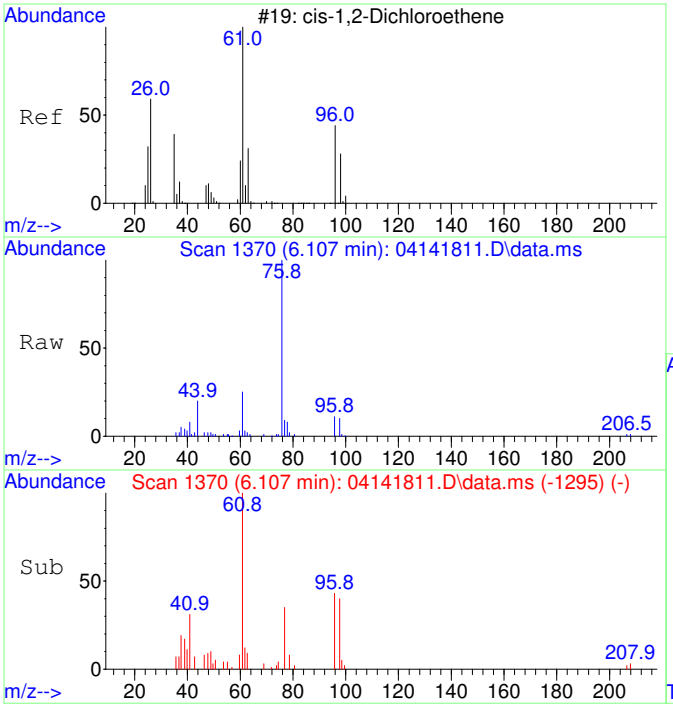


#28
1,1-Dichloroethane SCAN
Concen: 5541.55 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 63 Resp: 15301

Ion	Ratio	Lower	Upper
63	100		
65	27.3	2.2	62.2
83	8.0	0.0	38.2

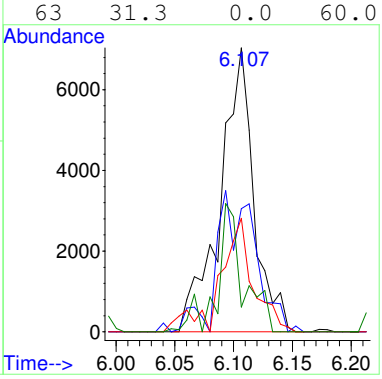


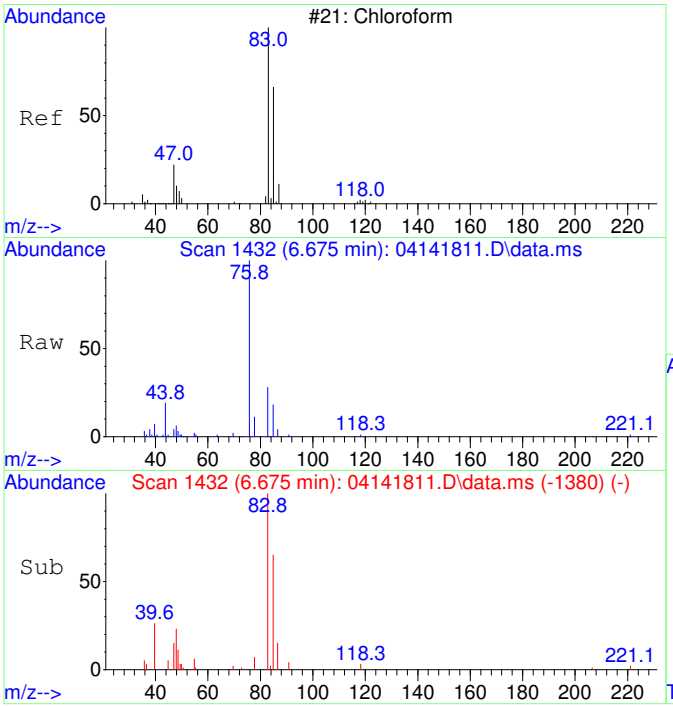


#29
cis-1,2-Dichloroethene SCAN
Concen: 6453.77 ug/L
RT: 6.107 min Scan# 1370
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 61 Resp: 13988

Ion	Ratio	Lower	Upper
61	100		
96	57.7	49.4	109.4
98	30.5	9.5	69.5
63	31.3	0.0	60.0

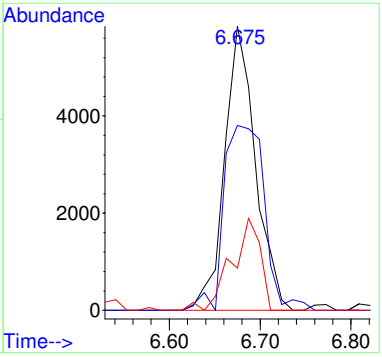


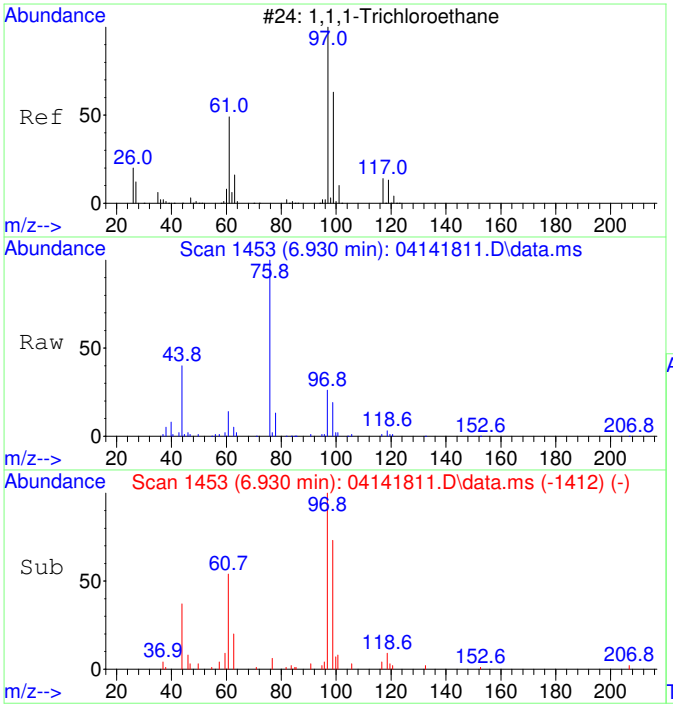


#30
Chloroform SCAN
Concen: 5301.15 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 83 Resp: 13863

Ion	Ratio	Lower	Upper
83	100		
85	85.4	47.8	107.8
47	29.9	8.2	68.2

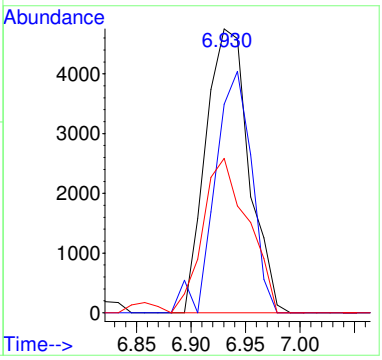


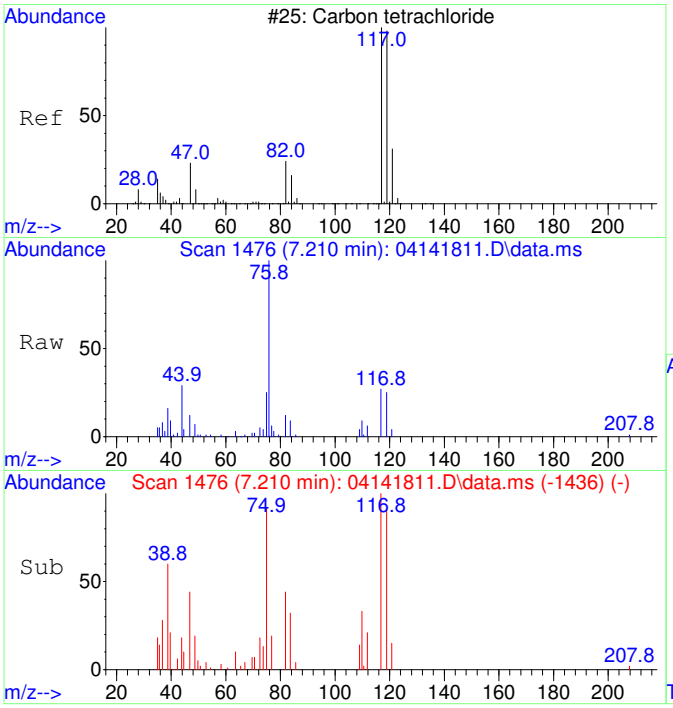


#31
1,1,1-Trichloroethane SCAN
Concen: 4000.11 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 97 Resp: 13127

Ion	Ratio	Lower	Upper
97	100		
99	72.1	18.3	78.3
61	57.1	16.3	76.3

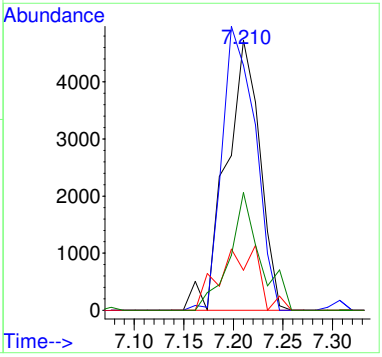


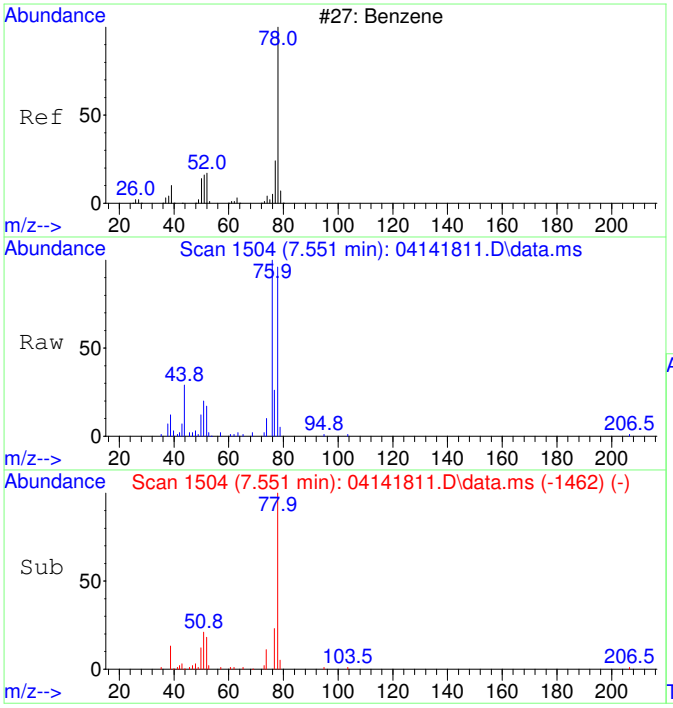


#32
Carbon tetrachloride SCAN
Concen: 4759.05 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:117 Resp: 11233

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	27.5	0.0	53.0
82	39.4	7.9	67.9

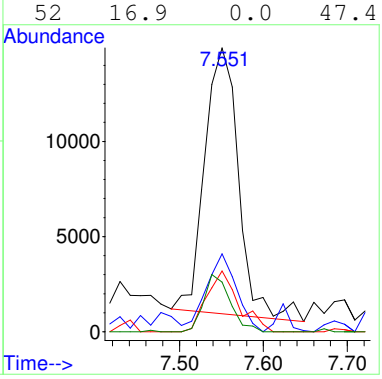


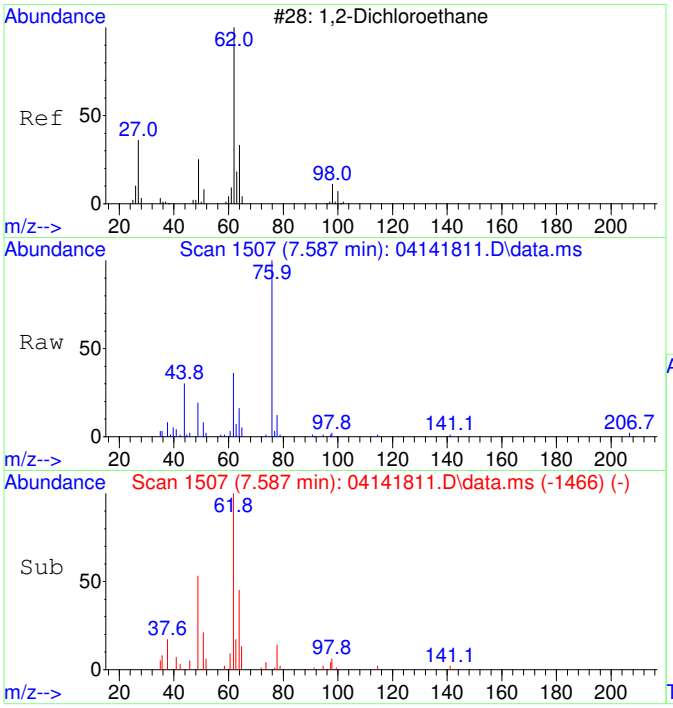


#33
Benzene SCAN
Concen: 5468.22 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 78 Resp: 39124

Ion	Ratio	Lower	Upper
78	100		
77	23.8	5.4	65.4
51	21.7	0.0	47.2
52	16.9	0.0	47.4

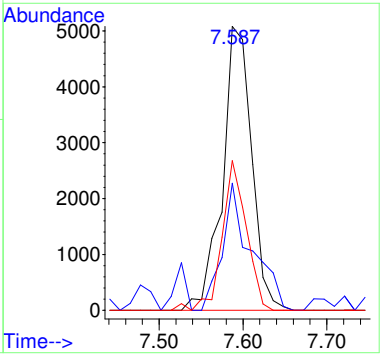


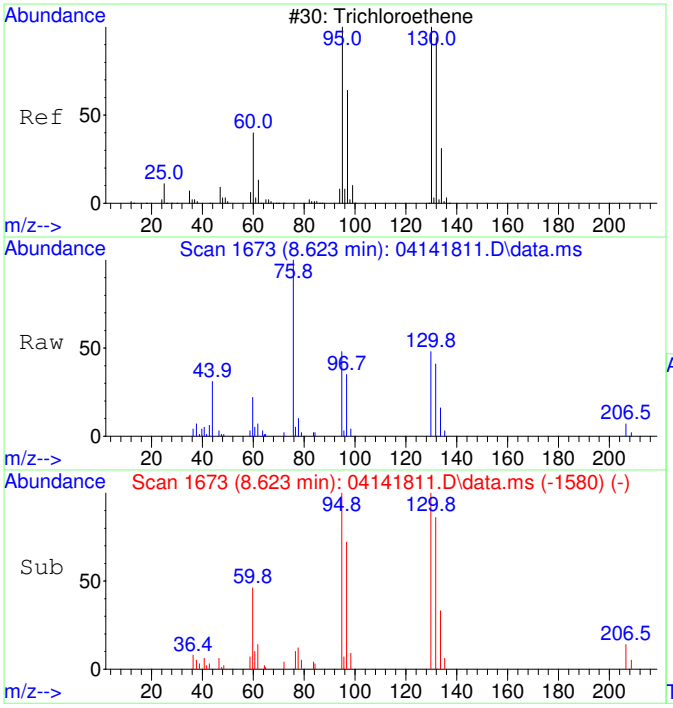


#34
1,2-Dichloroethane SCAN
Concen: 4520.53 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 62 Resp: 12264

Ion	Ratio	Lower	Upper
62	100		
64	44.8	4.4	64.4
49	43.7	1.2	61.2

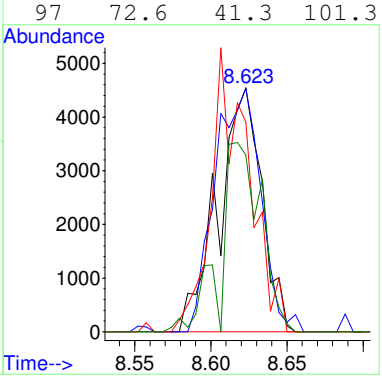


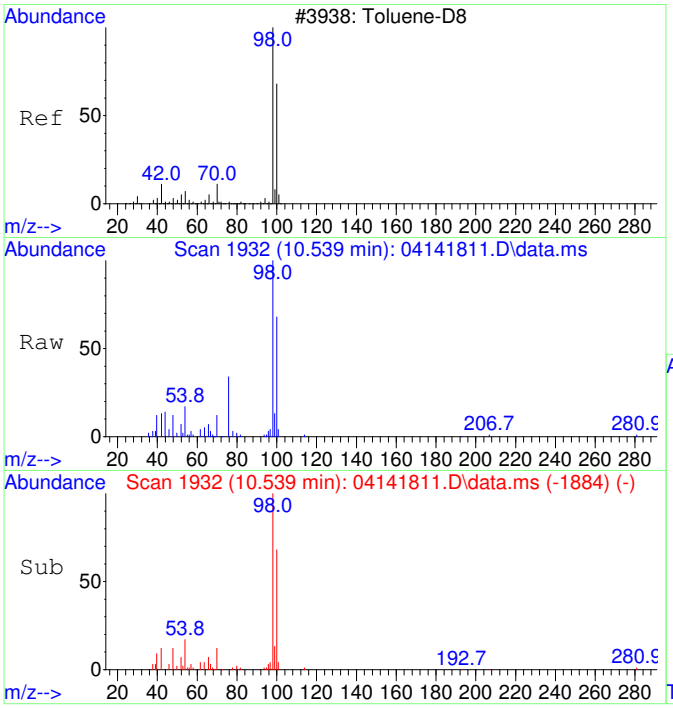


#35
Trichloroethene SCAN
Concen: 5028.32 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. 0.006 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:130 Resp: 9039

Ion	Ratio	Lower	Upper
130	100		
95	105.1	71.3	131.3
132	99.3	75.1	135.1
97	72.6	41.3	101.3

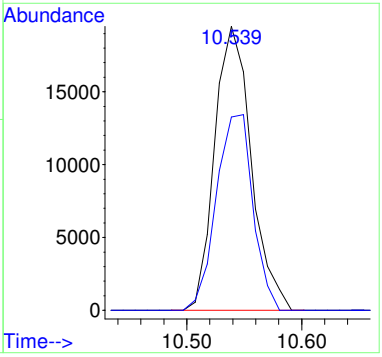


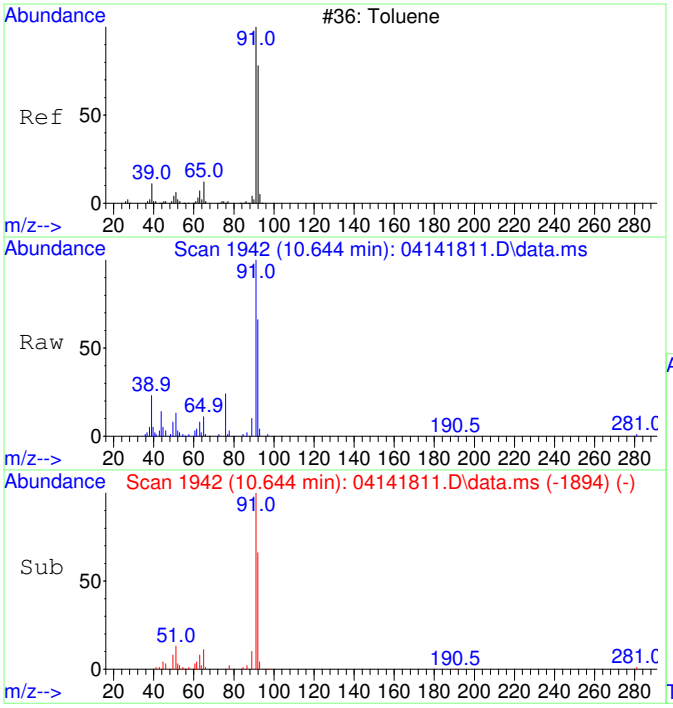


#36
Toluene-d8 SCAN
Concen: 5923.25 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 98 Resp: 43216

Ion	Ratio	Lower	Upper
98	100		
100	69.0	37.3	97.3

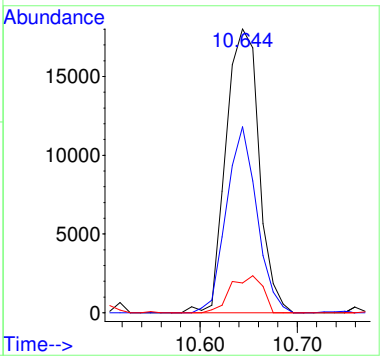


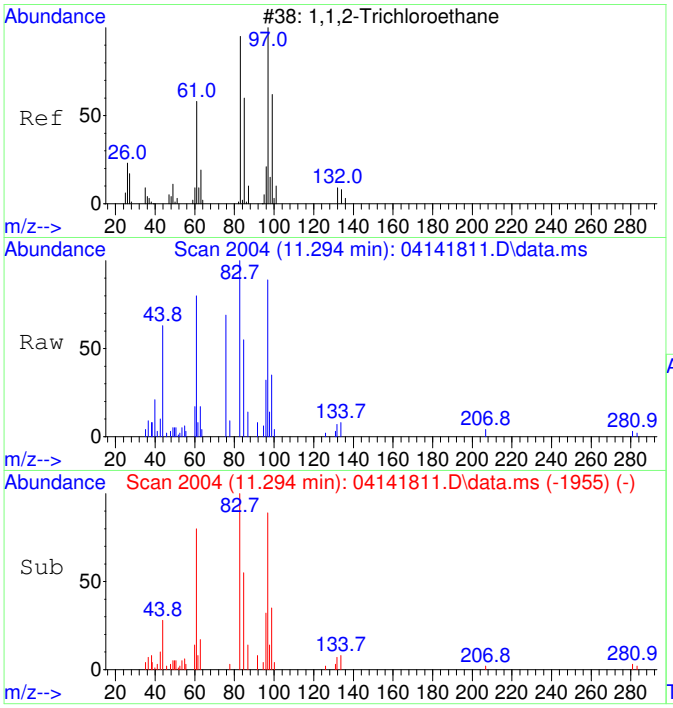


#37
Toluene SCAN
Concen: 5199.52 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 42427

Ion	Ratio	Lower	Upper
91	100		
92	60.6	39.1	99.1
65	12.8	0.0	43.8

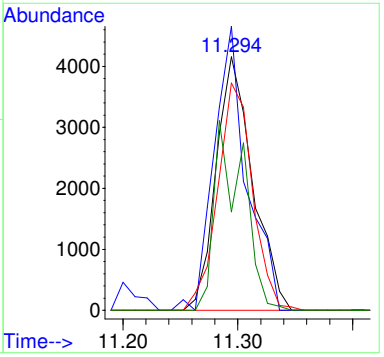


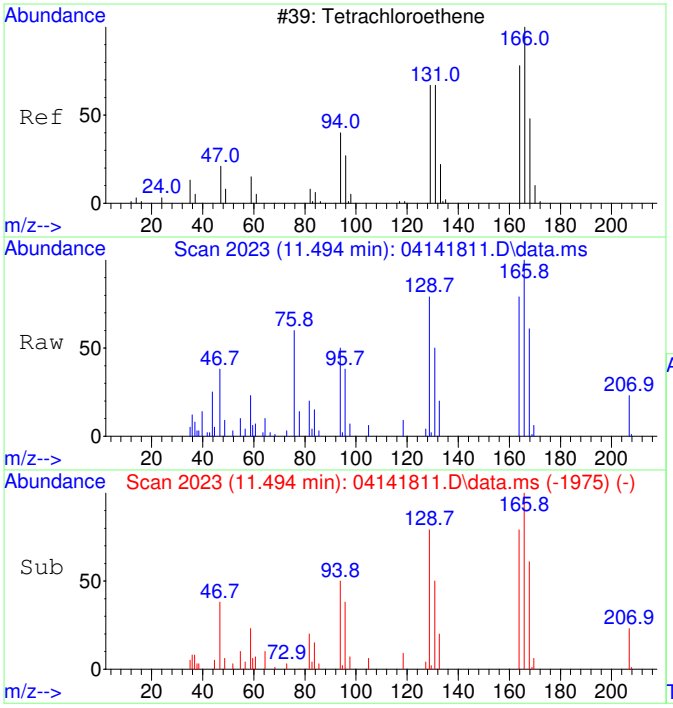


#38
1,1,2-Trichloroethane SCAN
Concen: 3689.99 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.011 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 97 Resp: 9221

Ion	Ratio	Lower	Upper
97	100		
83	100.1	47.4	107.4
61	85.3	29.7	89.7
99	60.1	26.5	86.5

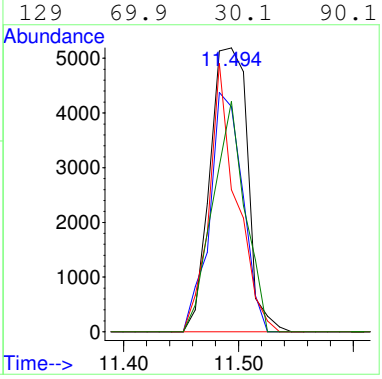


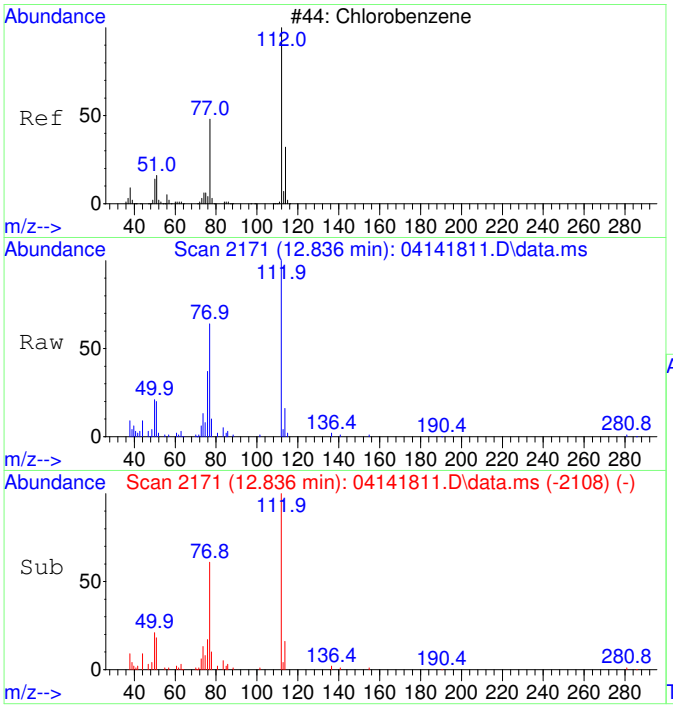


#39
Tetrachloroethene SCAN
Concen: 4453.15 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:166 Resp: 11850

Ion	Ratio	Lower	Upper
166	100		
164	73.9	49.8	109.8
131	68.4	42.0	102.0
129	69.9	30.1	90.1

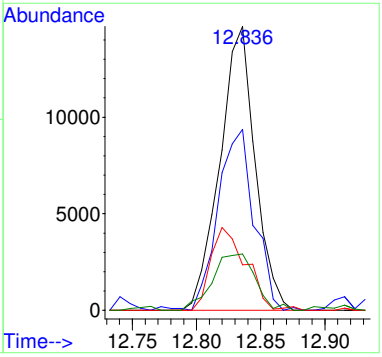


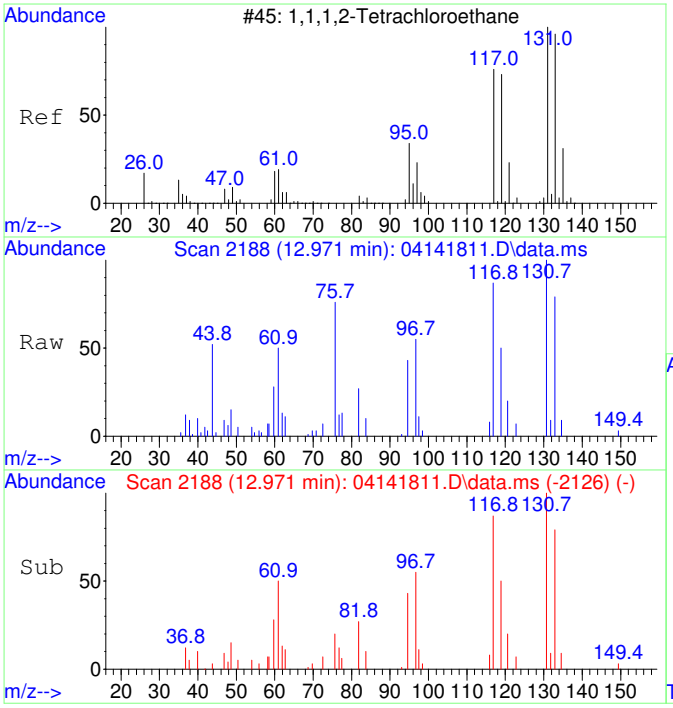


#40
Chlorobenzene SCAN
Concen: 4363.57 ug/L
RT: 12.836 min Scan# 2171
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:112 Resp: 27981

Ion	Ratio	Lower	Upper
112	100		
77	64.4	39.7	99.7
114	29.5	1.2	61.2
51	24.2	0.0	57.1

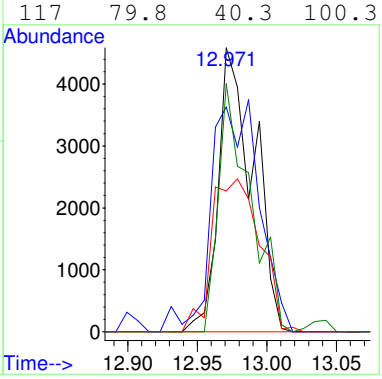


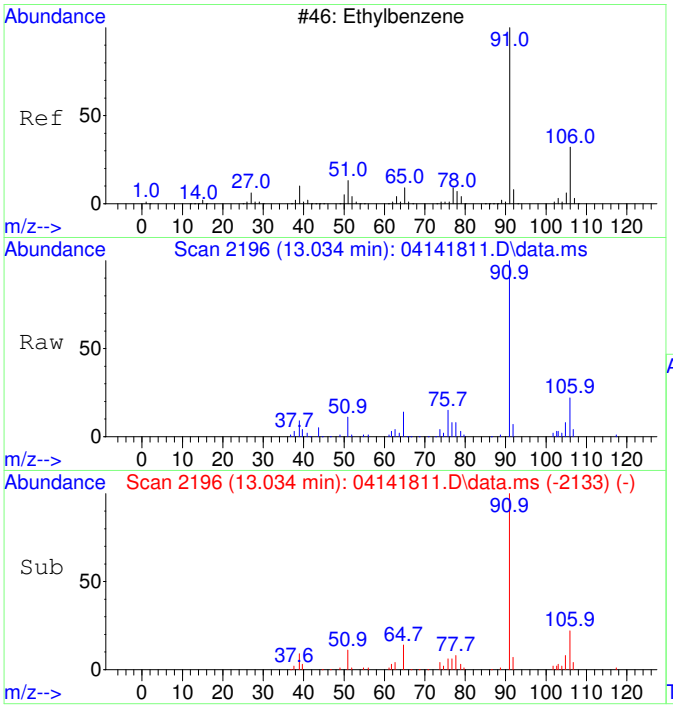


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 3877.34 ug/L
RT: 12.971 min Scan# 2188
Delta R.T. -0.008 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:131 Resp: 8083

Ion	Ratio	Lower	Upper
131	100		
133	109.9	78.7	138.7
119	74.0	43.0	103.0
117	79.8	40.3	100.3

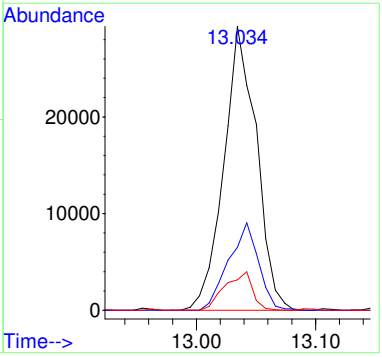


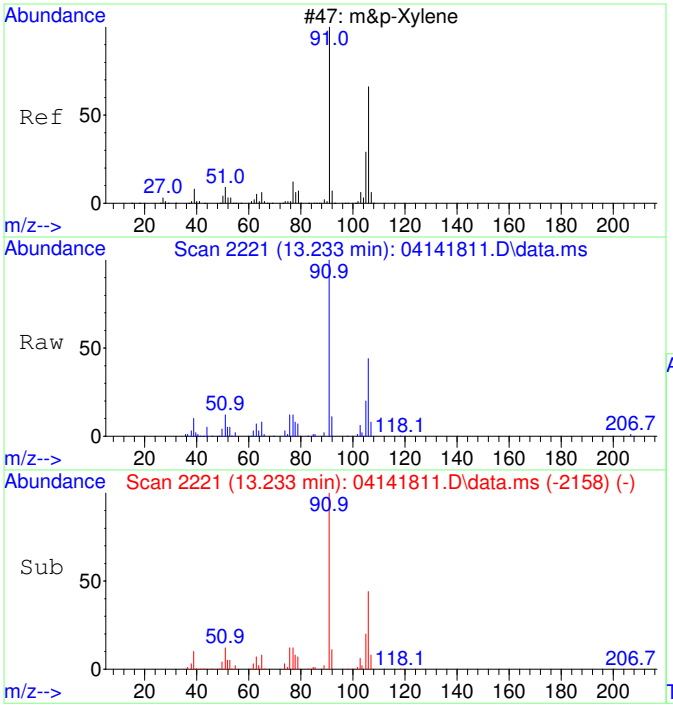


#42
Ethylbenzene SCAN
Concen: 5241.83 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 56066

Ion	Ratio	Lower	Upper
91	100		
106	28.3	1.8	61.8
51	11.5	0.0	45.4

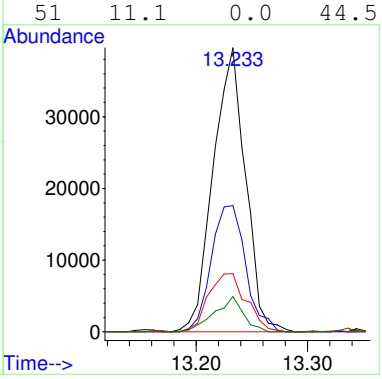


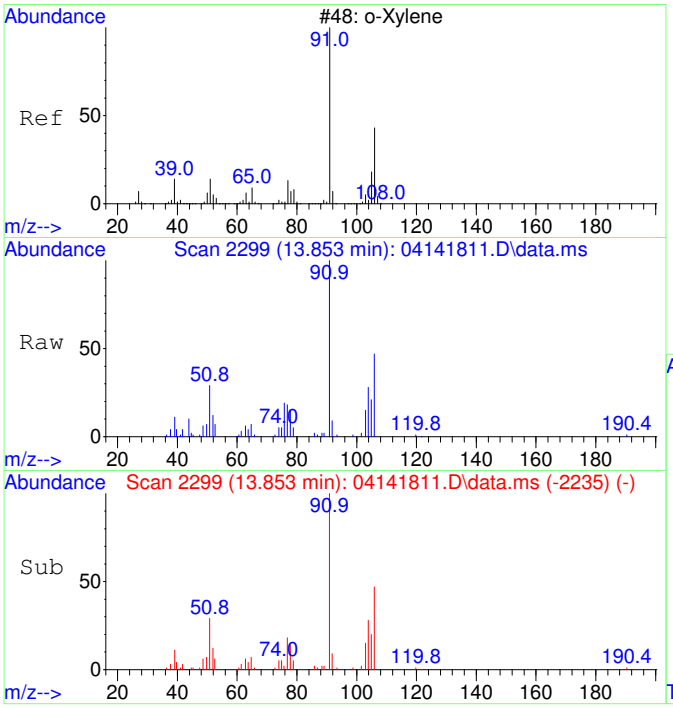


#43
m&p-Xylene SCAN
Concen: 4589.87 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 79893

Ion	Ratio	Lower	Upper
91	100		
106	47.3	14.6	74.6
105	24.0	0.0	52.8
51	11.1	0.0	44.5

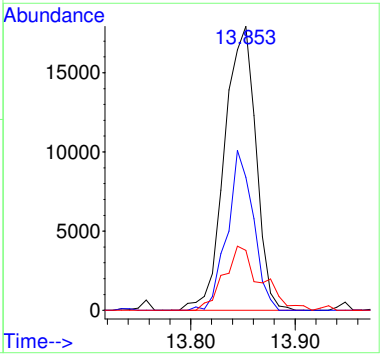


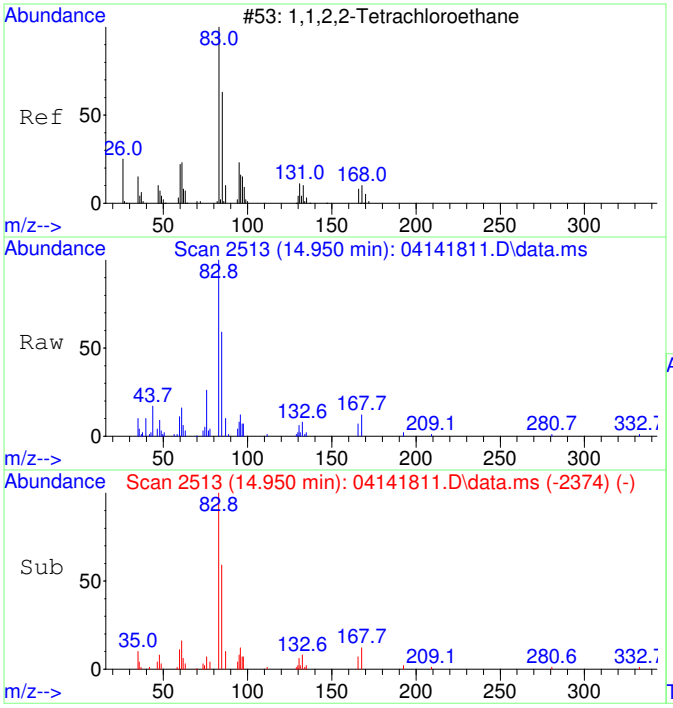


#44
o-Xylene SCAN
Concen: 3970.90 ug/L
RT: 13.853 min Scan# 2299
Delta R.T. 0.008 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 91 Resp: 37427

Ion	Ratio	Lower	Upper
91	100		
106	46.6	20.2	80.2
105	26.5	0.0	54.9

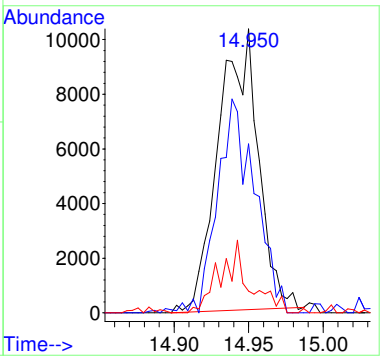


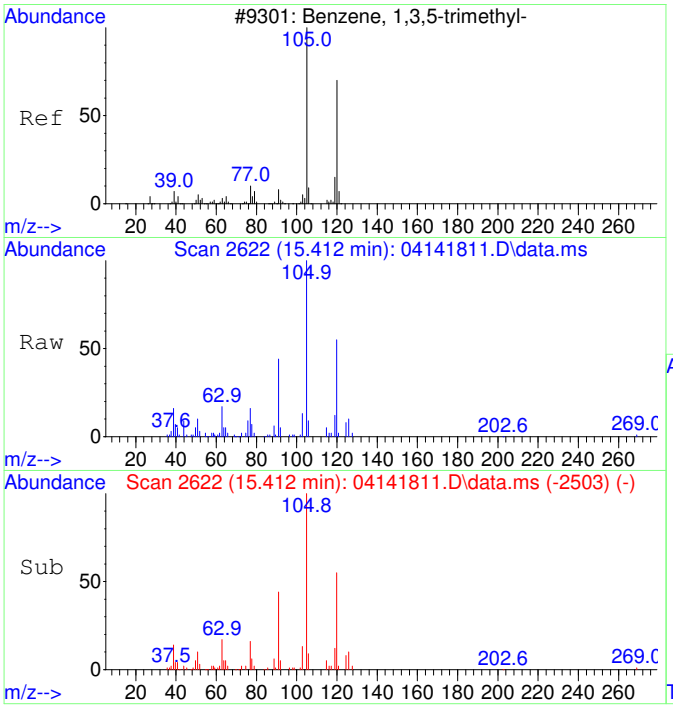


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 3869.74 ug/L
RT: 14.950 min Scan# 2513
Delta R.T. 0.015 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 83 Resp: 19091

Ion	Ratio	Lower	Upper
83	100		
85	70.0	32.4	92.4
95	18.7	0.0	41.2

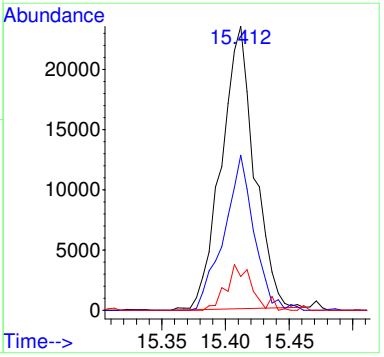


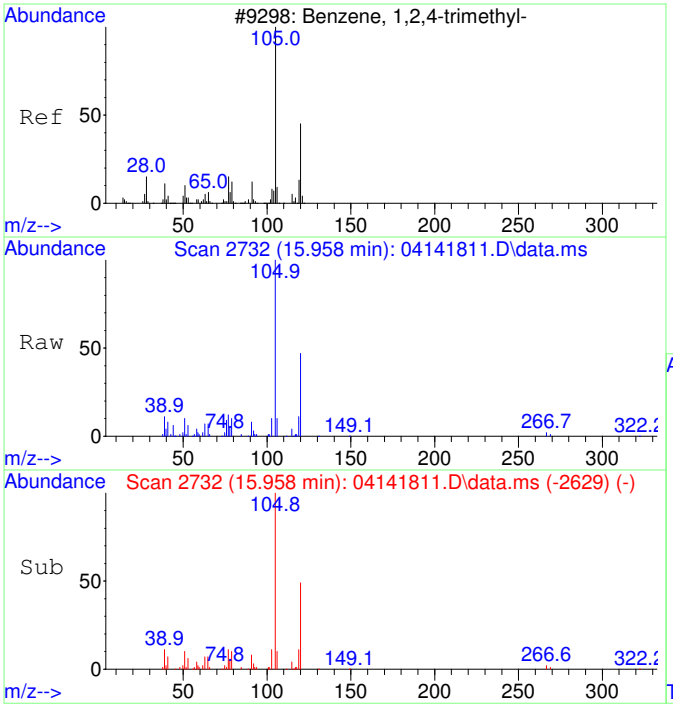


#46
1,3,5-Trimethylbenzene SCAN
Concen: 3926.40 ug/L
RT: 15.412 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:105 Resp: 42536

Ion	Ratio	Lower	Upper
105	100		
120	49.9	16.1	76.1
119	12.7	0.0	41.8

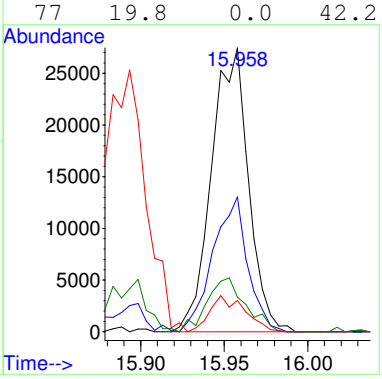


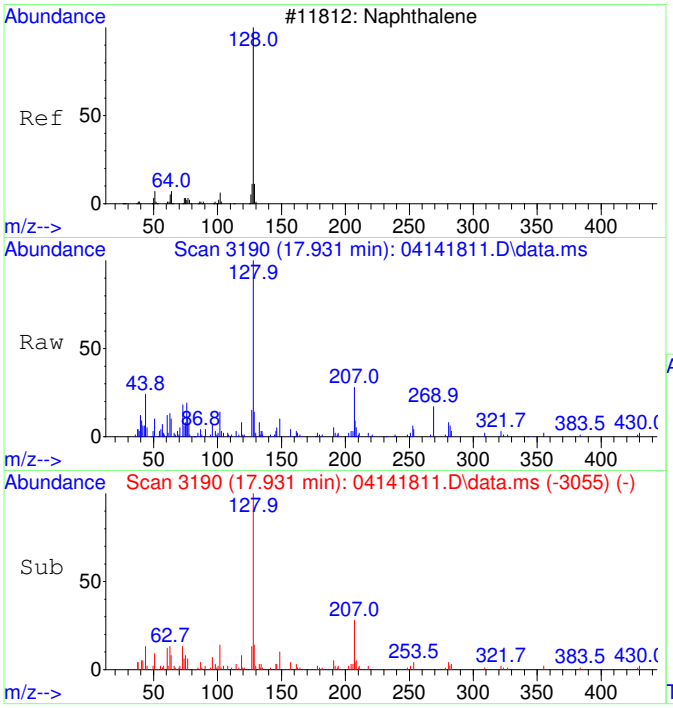


#47
1,2,4-Trimethylbenzene SCAN
Concen: 3863.10 ug/L
RT: 15.958 min Scan# 2732
Delta R.T. 0.010 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:105 Resp: 42185

Ion	Ratio	Lower	Upper
105	100		
120	44.7	12.8	72.8
119	12.1	0.0	42.5
77	19.8	0.0	42.2

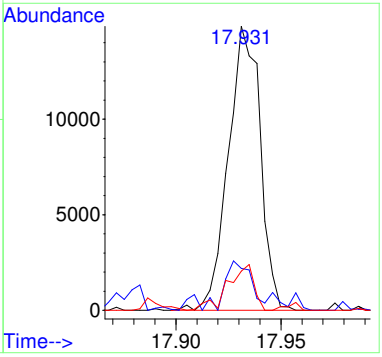


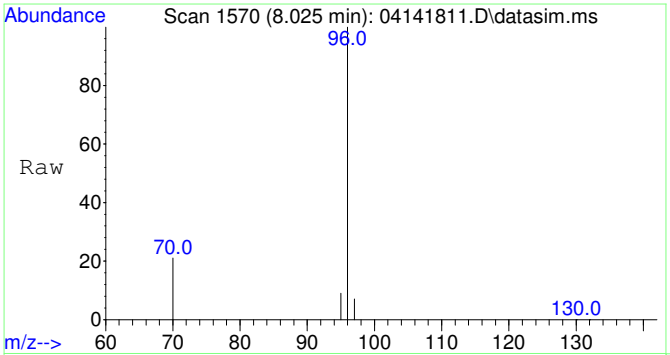


#48
Naphthalene SCAN
Concen: 888.58 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion:128 Resp: 15634

Ion	Ratio	Lower	Upper
128	100		
127	14.5	0.0	45.2
129	13.3	0.0	42.0

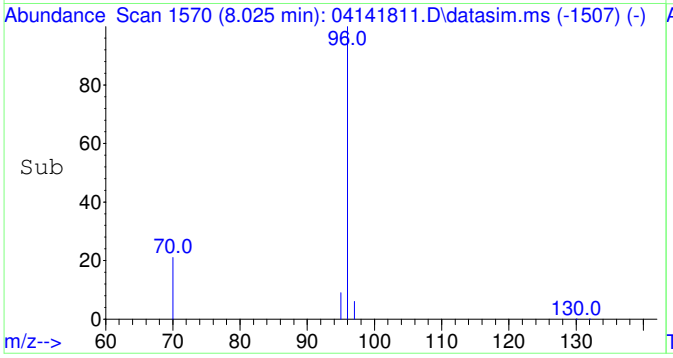


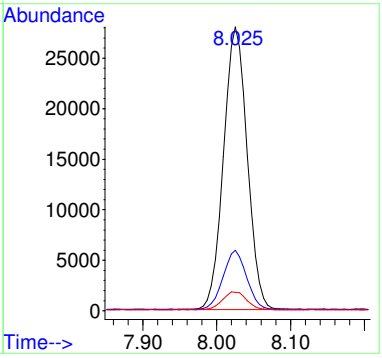


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141811.D
Acq: 14 Apr 2018 14:49

Tgt Ion: 96 Resp: 62286

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.7	0.0	36.7





B18D036-BSD1

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141812.D
Acq On : 14 Apr 2018 15:13
InstName : AG5975C
Operator : RH
Sample : B18D036-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 16 09:38:13 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

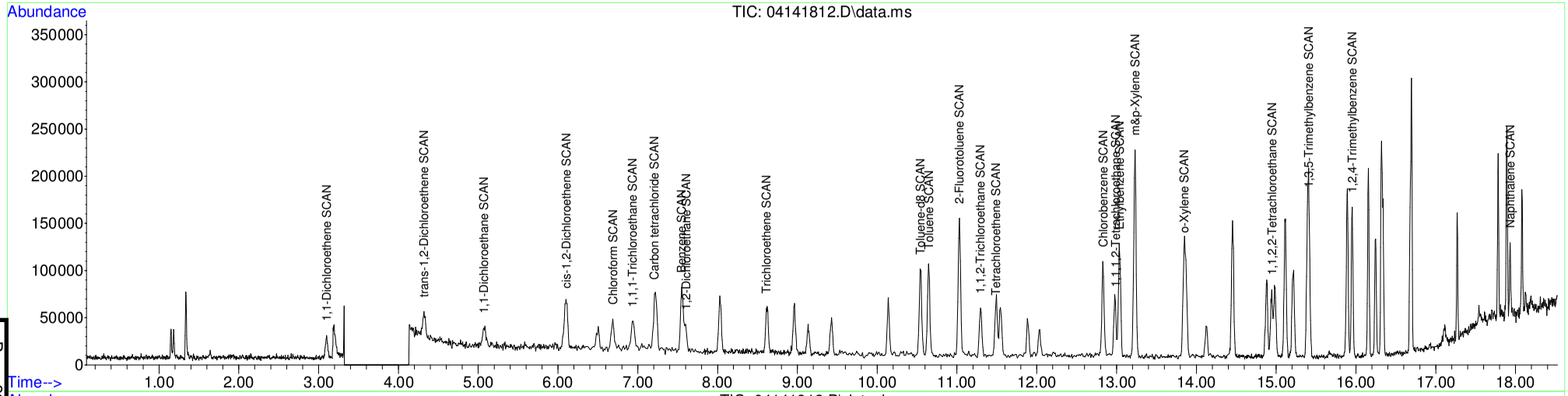
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	154829	5000.00 ug/L	0.00
49) Fluorobenzene	8.031	96	110016	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	135027	5195.82 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.92%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	29770	4380.35 ug/L	99
3] trans-1,2-Dichloroethene	4.316	61	32763	4717.88 ug/L	100
4] 1,1-Dichloroethane	5.073	63	42948	4644.84 ug/L	99
5] cis-1,2-Dichloroethene	6.101	61	41438	4844.12 ug/L	100
6] Chloroform	6.676	83	46766	4648.51 ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	48237	4910.37 ug/L	99
8] Carbon tetrachloride	7.211	117	43981	4907.41 ug/L	98
9] Benzene	7.552	78	115507	4657.30 ug/L	100
10] 1,2-Dichloroethane	7.588	62	42259	4886.78 ug/L	99
11] Trichloroethene	8.619	130	34330	5023.80 ug/L	100
13] Toluene	10.634	91	150078	4588.28 ug/L	99
14] 1,1,2-Trichloroethane	11.296	97	34422	4763.11 ug/L	99
15] Tetrachloroethene	11.495	166	44854	5003.11 ug/L	100
16] Chlorobenzene	12.829	112	108381	4702.29 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	39123	5098.83 ug/L	99
18] Ethylbenzene	13.036	91	193662	5215.65 ug/L	100
19] m&p-Xylene	13.226	91	288718	9937.23 ug/L	100
20] o-Xylene	13.846	91	144419	4717.19 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.944	83	67527	4752.08 ug/L	100
22] 1,3,5-Trimethylbenzene	15.408	105	171589	4788.57 ug/L	100
23] 1,2,4-Trimethylbenzene	15.949	105	165260	4533.88 ug/L	100
24] Naphthalene	17.932	128	67795	1074.40 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	78864	5271.47 ug/L	94
26) 1,1-Dichloroethene SCAN	3.100	61	18310	5522.19 ug/L	55
27) trans-1,2-Dichloroethe...	4.322	61	20052	6172.13 ug/L	72
28) 1,1-Dichloroethane SCAN	5.071	63	26241	5278.77 ug/L	90
29) cis-1,2-Dichloroethene...	6.106	61	23816	6103.35 ug/L	88
30) Chloroform SCAN	6.687	83	33438	7102.23 ug/L #	67
31) 1,1,1-Trichloroethane ...	6.930	97	27912	4724.31 ug/L #	61
32) Carbon tetrachloride SCAN	7.210	117	21551	5071.46 ug/L	83
33) Benzene SCAN	7.551	78	65210	5062.41 ug/L #	64
34) 1,2-Dichloroethane SCAN	7.599	62	25123	5143.63 ug/L	85
35) Trichloroethene SCAN	8.612	130	17906	5532.76 ug/L	91
36) Toluene-d8 SCAN	10.539	98	70336	5354.69 ug/L	97
37) Toluene SCAN	10.644	91	72251	4918.20 ug/L	97
38) 1,1,2-Trichloroethane ...	11.294	97	19620	4361.01 ug/L	90
39) Tetrachloroethene SCAN	11.483	166	21948	4581.26 ug/L	96
40) Chlorobenzene SCAN	12.828	112	55226	4783.70 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.987	131	21444	5713.58 ug/L	82
42) Ethylbenzene SCAN	13.034	91	99403	5162.07 ug/L	97
43) m&p-Xylene SCAN	13.233	91	152528	4867.24 ug/L	95
44) o-Xylene SCAN	13.845	91	82100	4838.25 ug/L	94
45) 1,1,2,2-Tetrachloroeth...	14.946	83	38306	4312.81 ug/L	91
46) 1,3,5-Trimethylbenzene...	15.412	105	87354	4478.80 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.953	105	79765	4057.24 ug/L	97
48) Naphthalene SCAN	17.931	128	32127	1014.23 ug/L	91

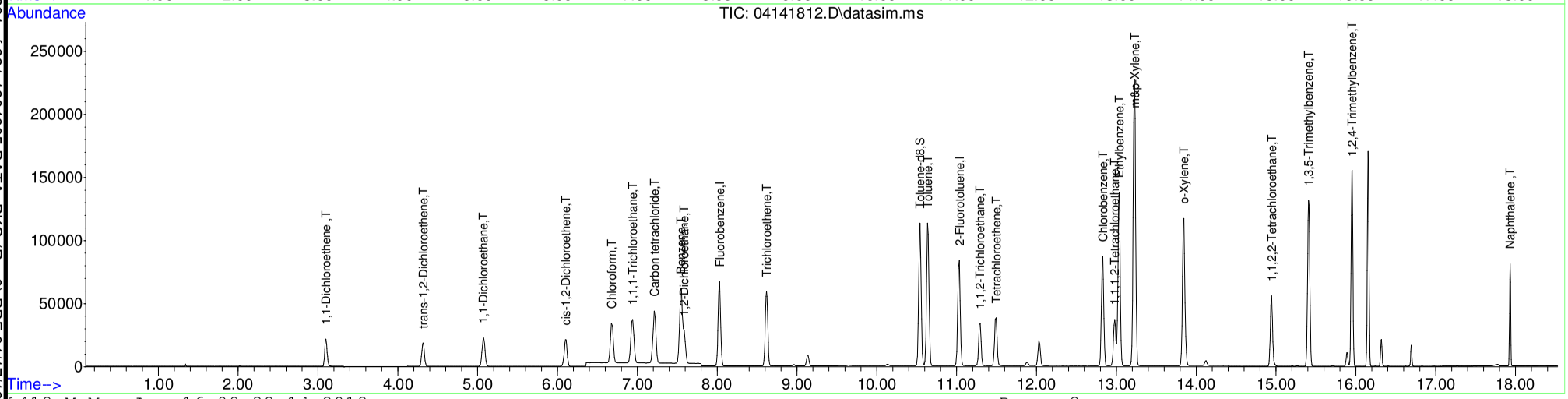
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141812.D
Acq On : 14 Apr 2018 15:13
InstName : AG5975C
Operator : RH
Sample : B18D036-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 16 09:38:13 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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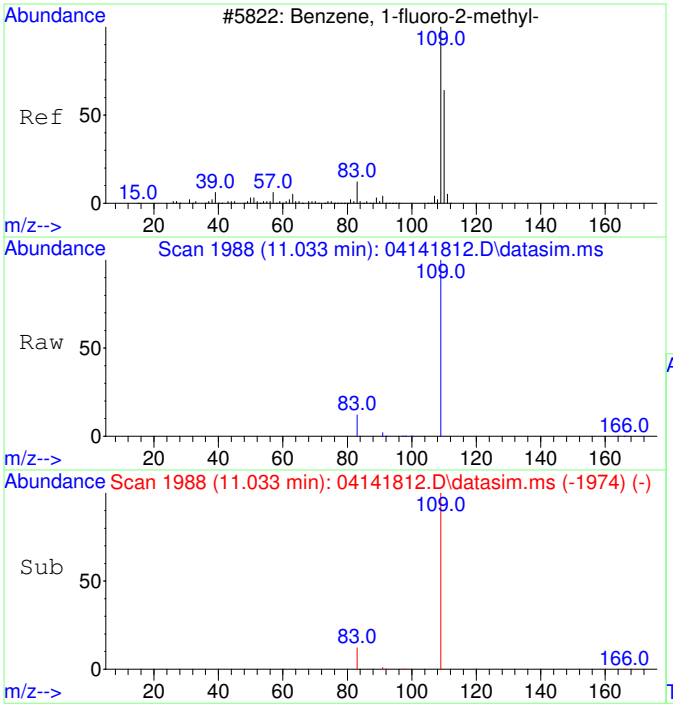
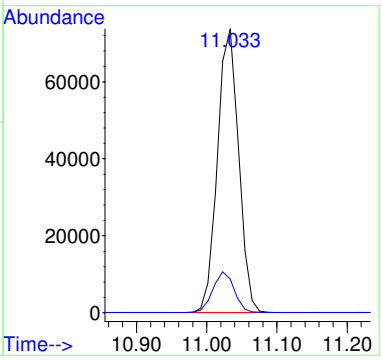
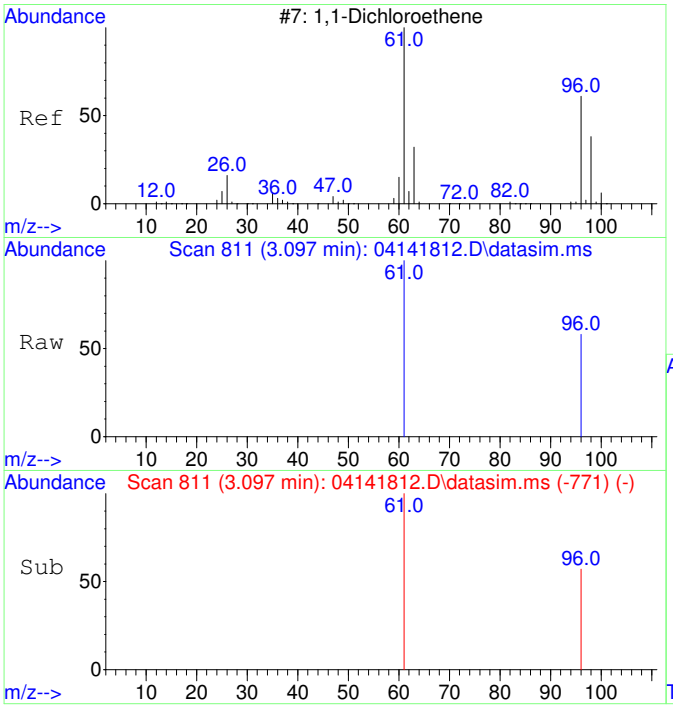


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:109 Resp: 154829

Ion	Ratio	Lower	Upper
109	100		
83	14.3	0.0	44.4

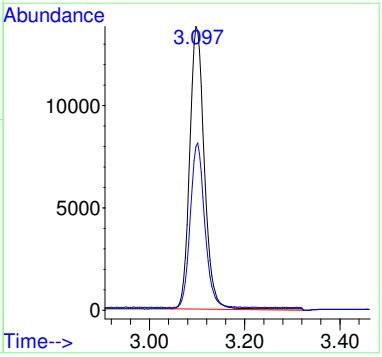




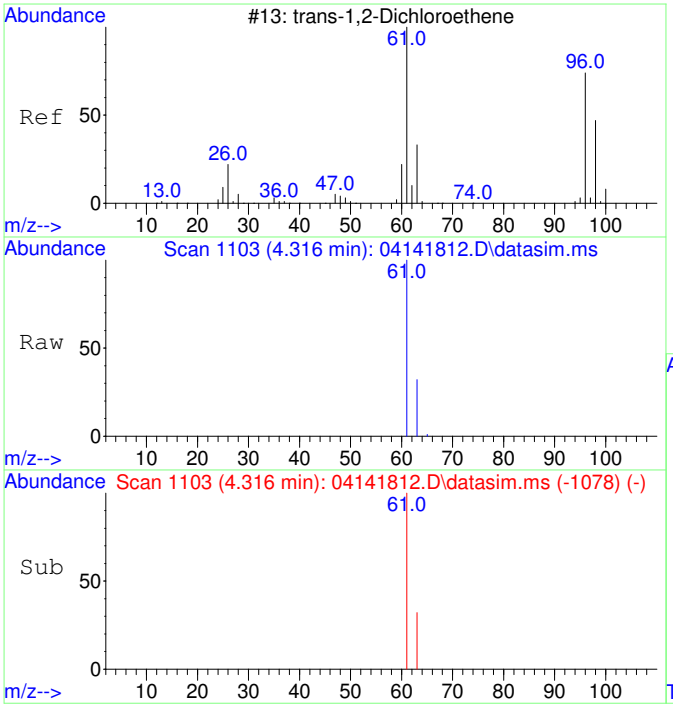
#2
1,1-Dichloroethene
Concen: 4380.35 ug/L
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 29770

Ion	Ratio	Lower	Upper
61	100		
96	56.8	26.1	86.1



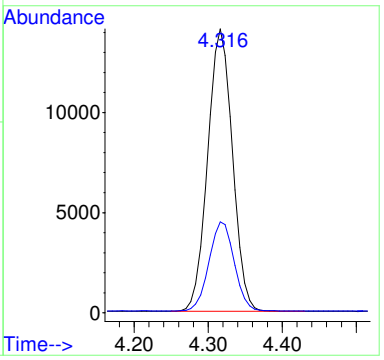
Before MI:
IMPROPER
BASELINE

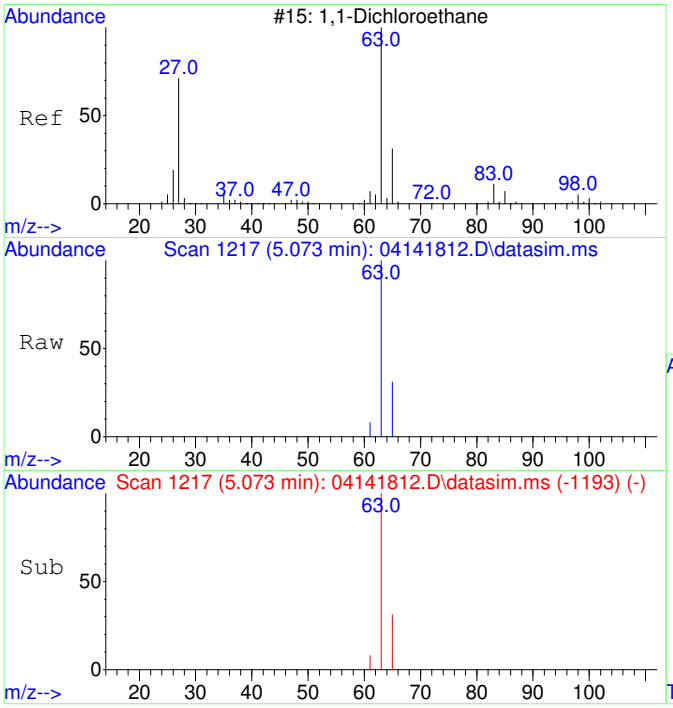


#3
trans-1,2-Dichloroethene
Concen: 4717.88 ug/L
RT: 4.316 min Scan# 1103
Delta R.T. 0.013 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 32763

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

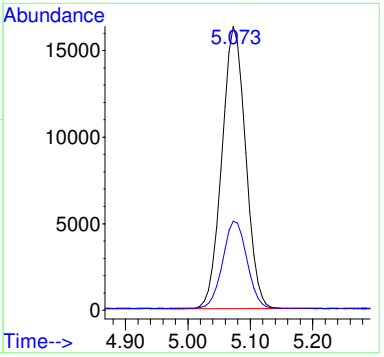


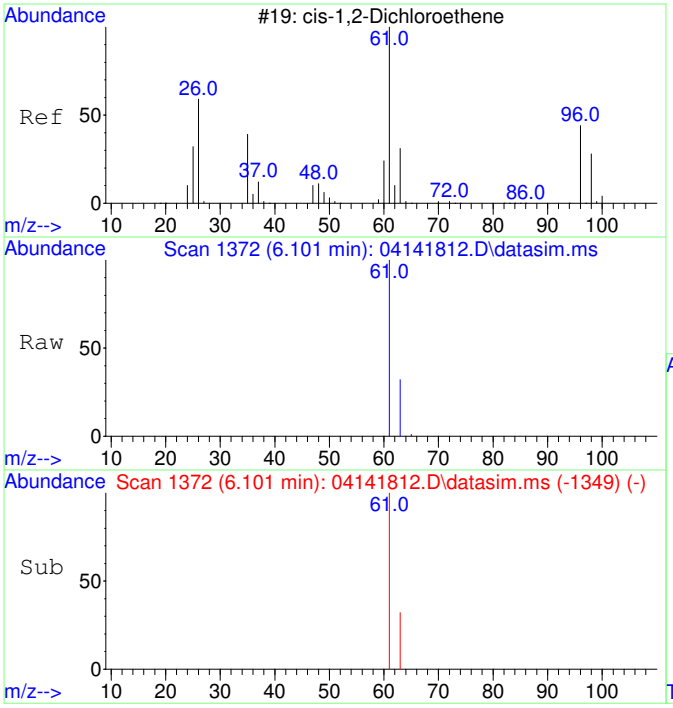


#4
1,1-Dichloroethane
Concen: 4644.84 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 63 Resp: 42948

Ion	Ratio	Lower	Upper
63	100		
65	31.4	1.8	61.8

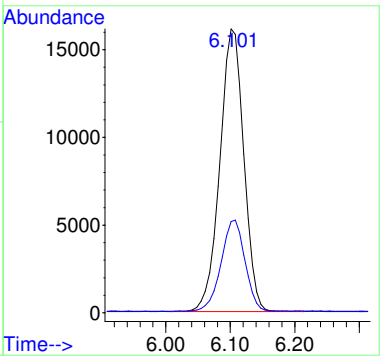


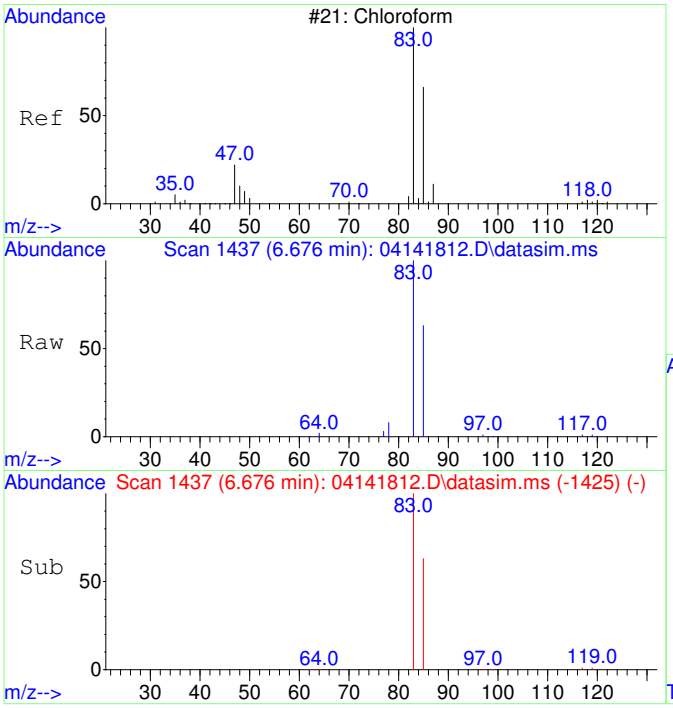


#5
cis-1,2-Dichloroethene
Concen: 4844.12 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 41438

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.0	62.0

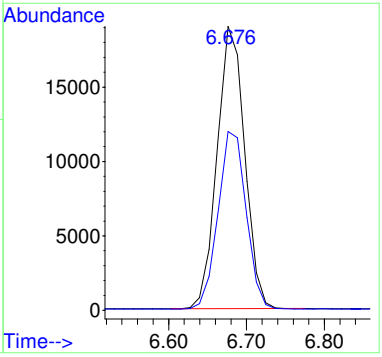


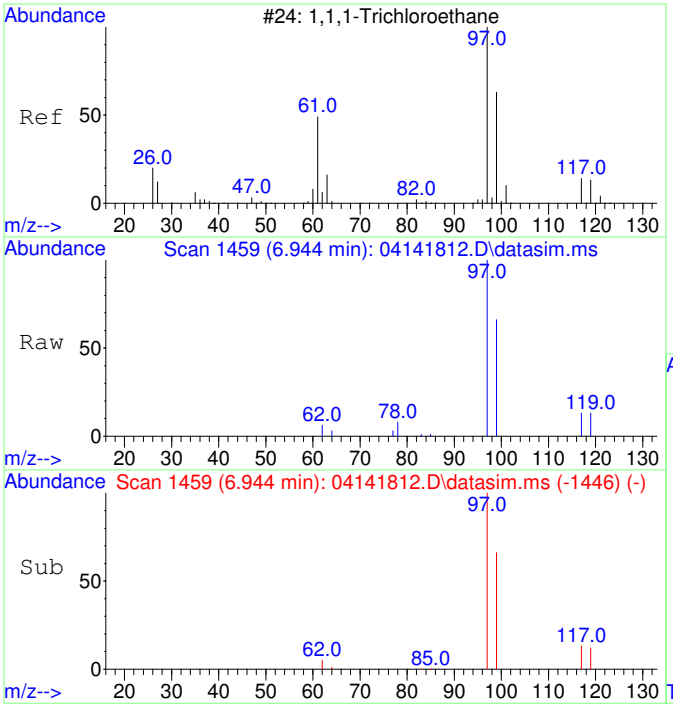


#6
Chloroform
Concen: 4648.51 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 83 Resp: 46766

Ion	Ratio	Lower	Upper
83	100		
85	64.1	34.2	94.2

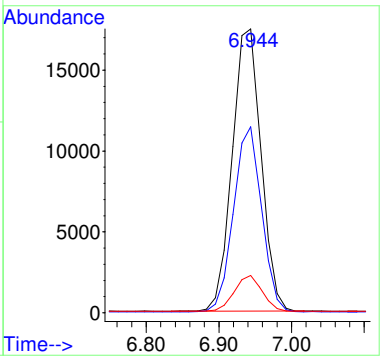


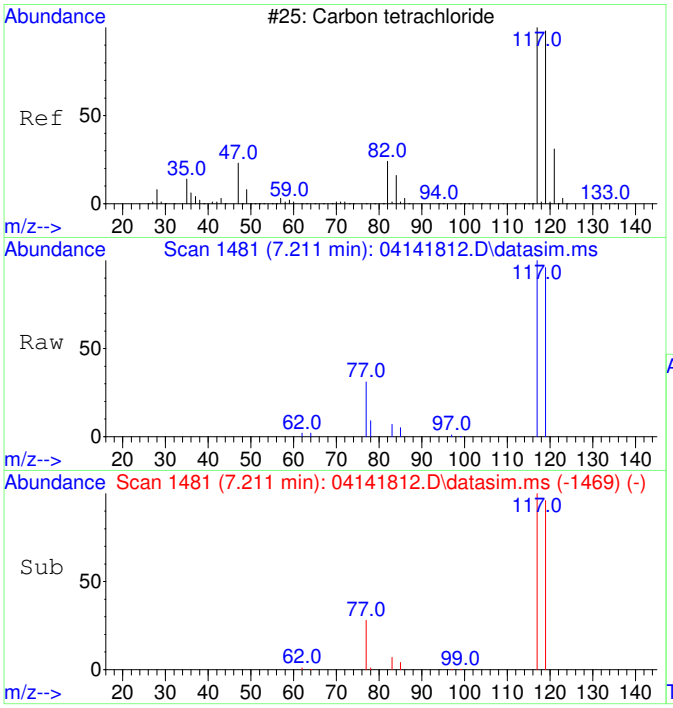


#7
1,1,1-Trichloroethane
Concen: 4910.37 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 97 Resp: 48237

Ion	Ratio	Lower	Upper
97	100		
99	63.7	34.5	94.5
117	12.3	0.0	42.6

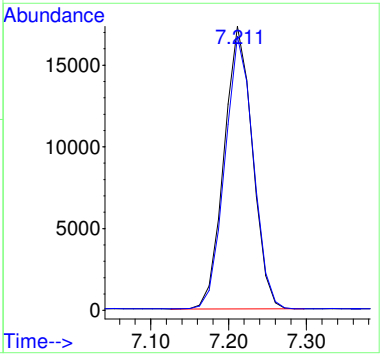


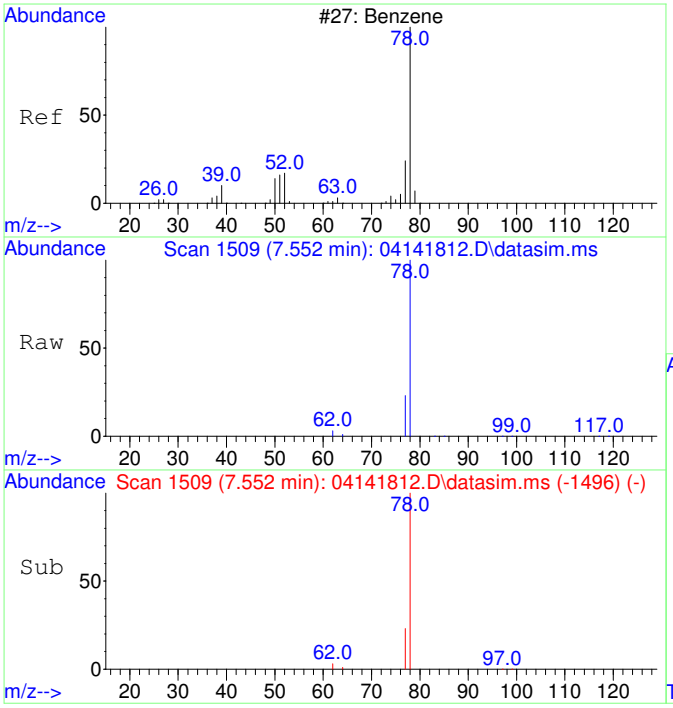


#8
Carbon tetrachloride
Concen: 4907.41 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:117 Resp: 43981

Ion	Ratio	Lower	Upper
117	100		
119	96.1	64.5	124.5

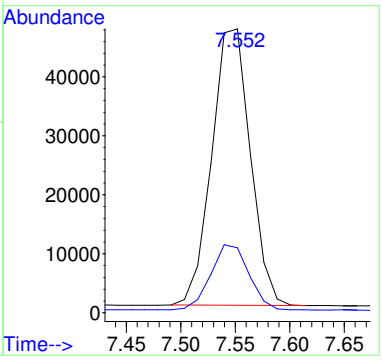


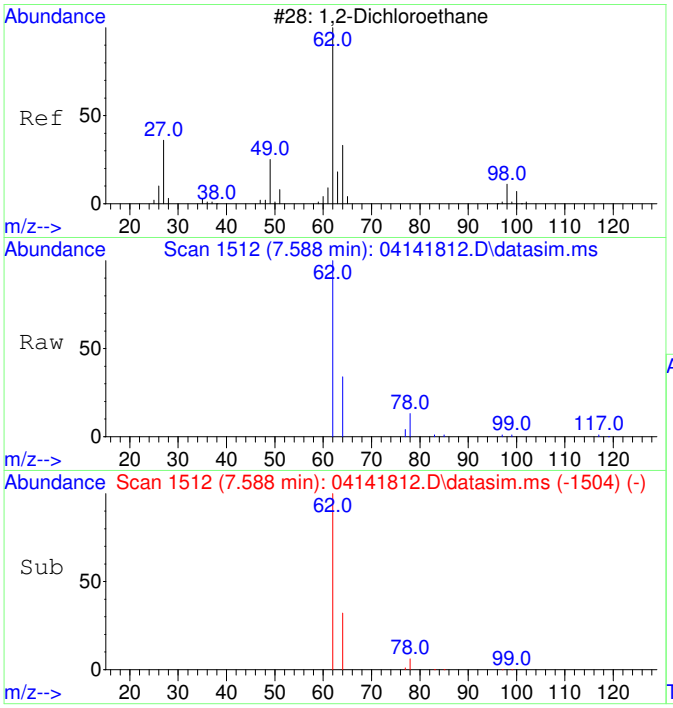


#9
Benzene
Concen: 4657.30 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 78 Resp: 115507

Ion	Ratio	Lower	Upper
78	100		
77	23.4	0.0	53.6

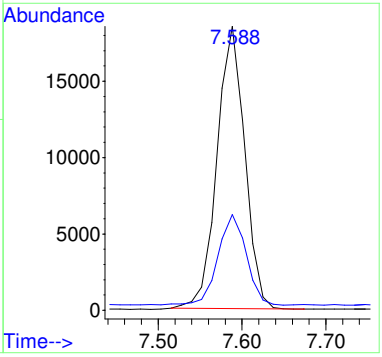


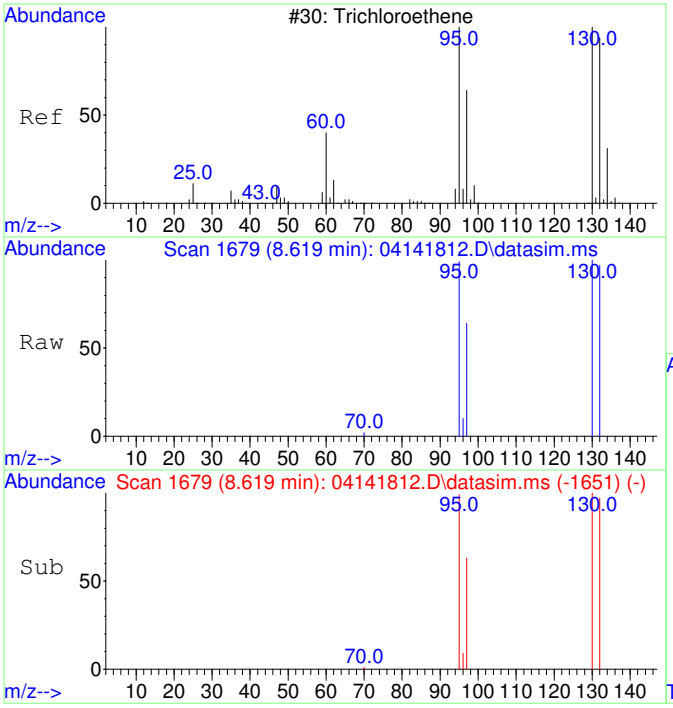


#10
1,2-Dichloroethane
Concen: 4886.78 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 62 Resp: 42259

Ion	Ratio	Lower	Upper
62	100		
64	32.4	1.8	61.8

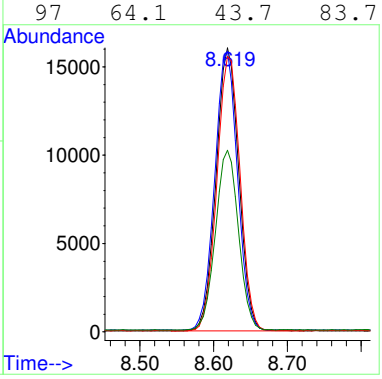


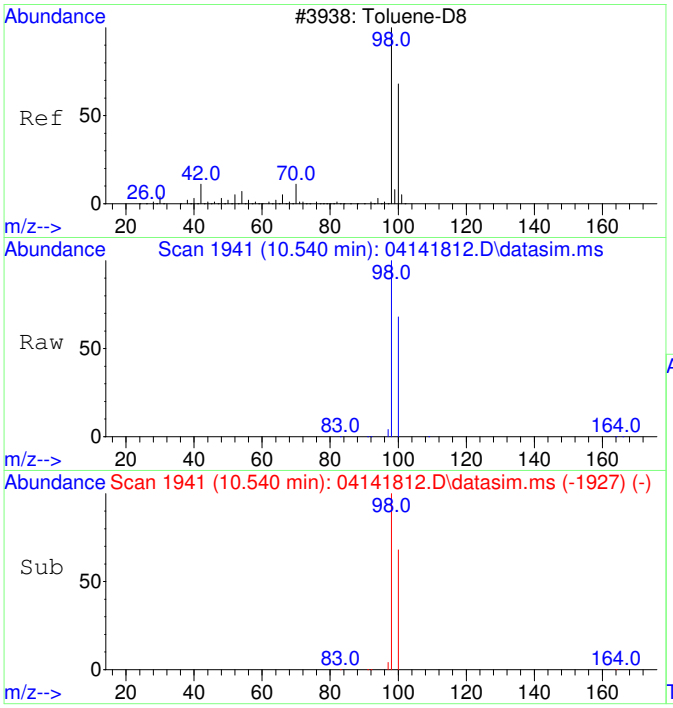


#11
Trichloroethene
Concen: 5023.80 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:130 Resp: 34330

Ion	Ratio	Lower	Upper
130	100		
95	98.9	68.8	128.8
132	98.7	78.6	118.6
97	64.1	43.7	83.7

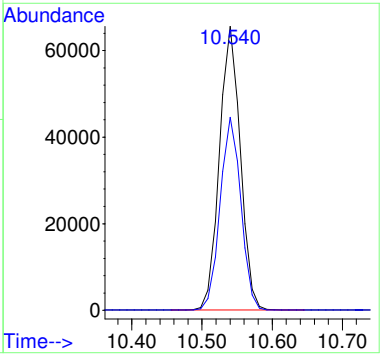


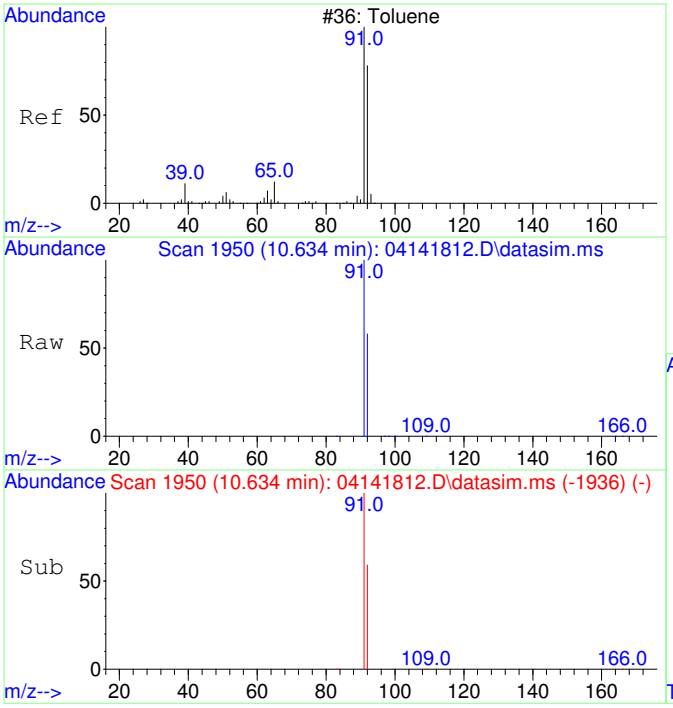


#12
Toluene-d8
Concen: 5195.82 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 98 Resp: 135027

Ion	Ratio	Lower	Upper
98	100		
100	67.4	36.9	96.9

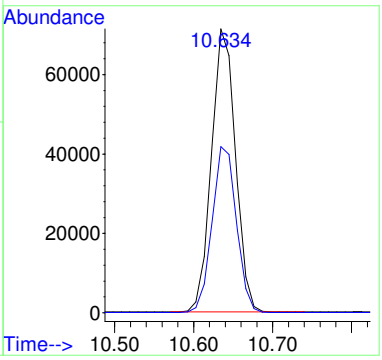


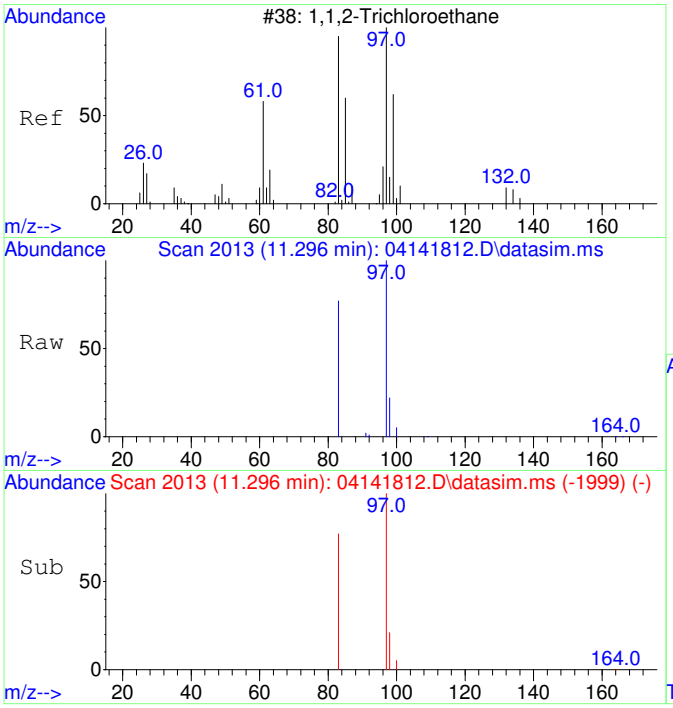


#13
Toluene
Concen: 4588.28 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 150078

Ion	Ratio	Lower	Upper
91	100		
92	59.3	28.8	88.8

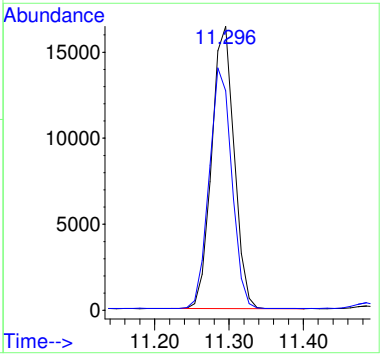


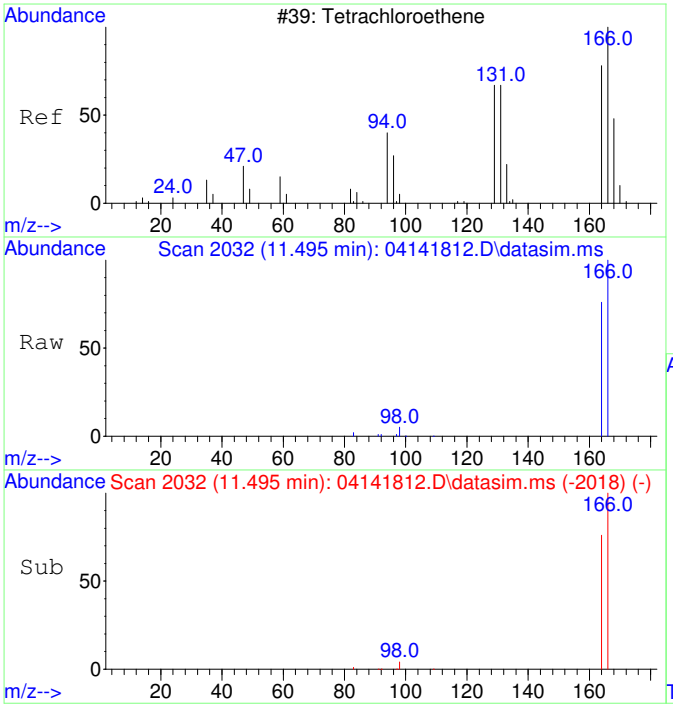


#14
1,1,2-Trichloroethane
Concen: 4763.11 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 97 Resp: 34422

Ion	Ratio	Lower	Upper
97	100		
83	85.5	54.3	114.3

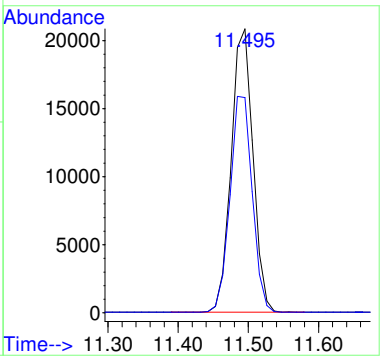


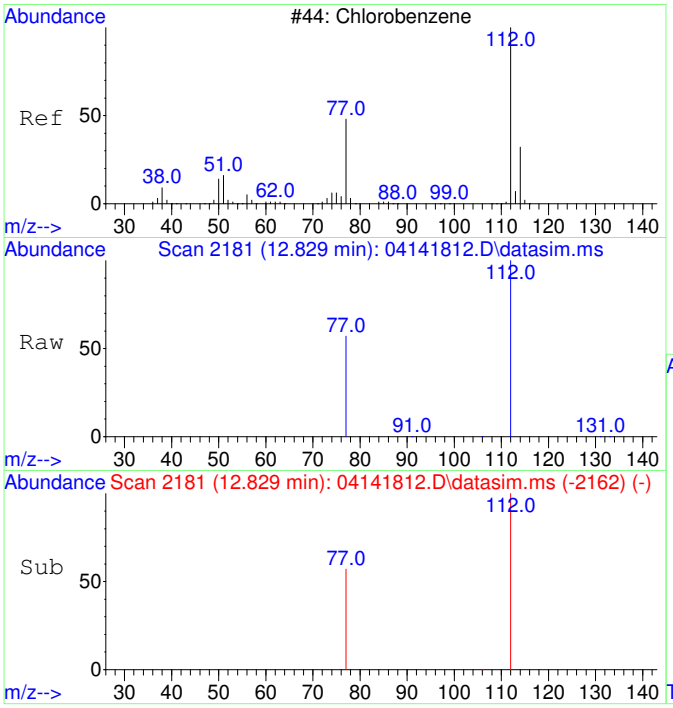


#15
Tetrachloroethene
Concen: 5003.11 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:166 Resp: 44854

Ion	Ratio	Lower	Upper
166	100		
164	78.1	48.0	108.0

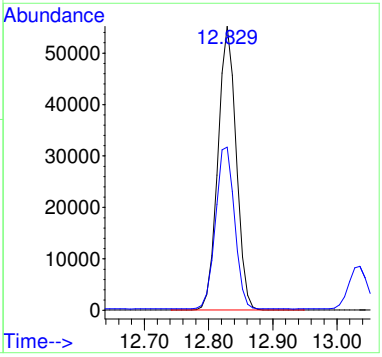


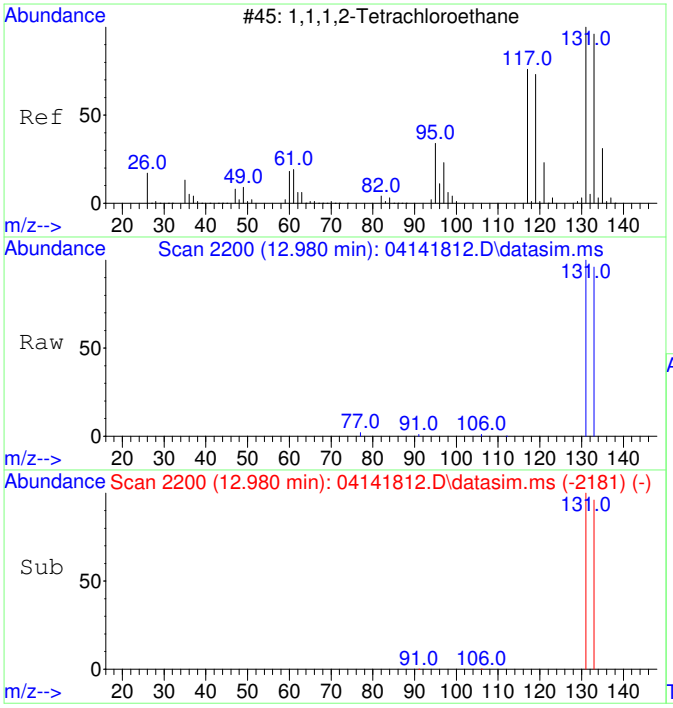


#16
Chlorobenzene
Concen: 4702.29 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:112 Resp: 108381

Ion	Ratio	Lower	Upper
112	100		
77	59.3	29.4	89.4

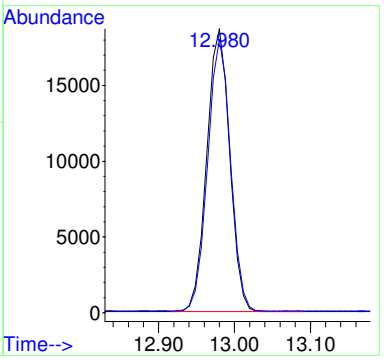


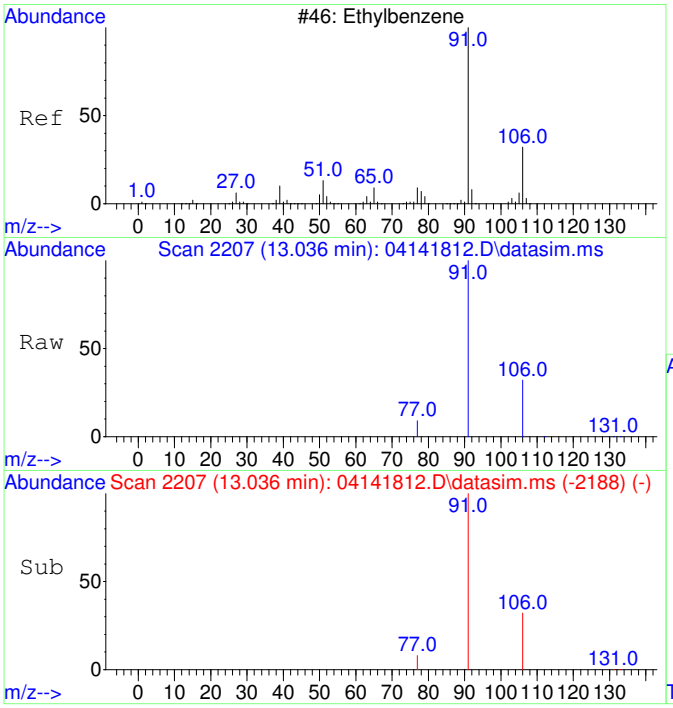


#17
1,1,1,2-Tetrachloroethane
Concen: 5098.83 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:131 Resp: 39123

Ion	Ratio	Lower	Upper
131	100		
133	95.7	65.1	125.1

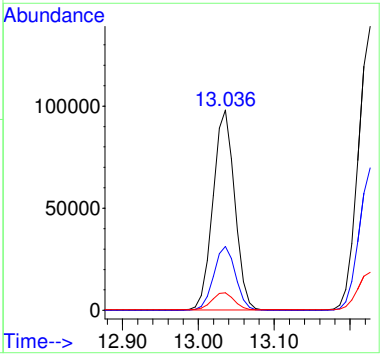


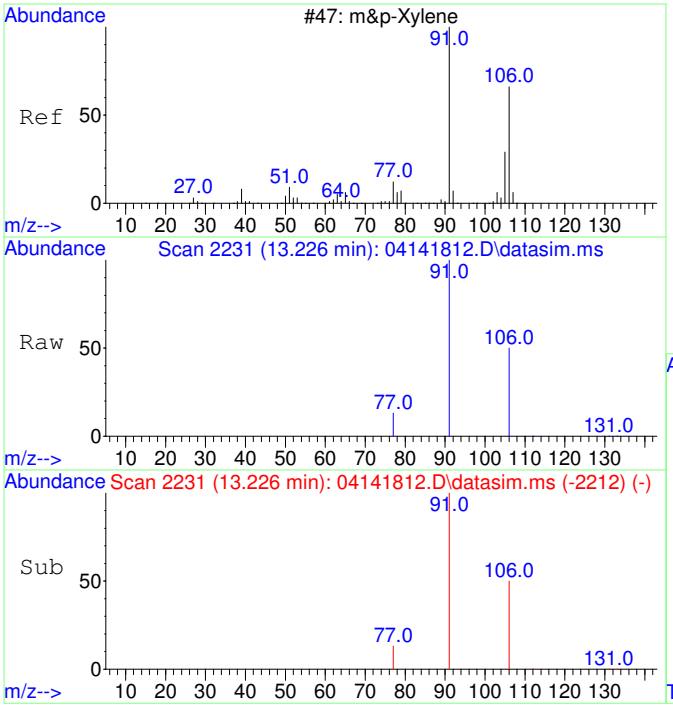


#18
Ethylbenzene
Concen: 5215.65 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 193662

Ion	Ratio	Lower	Upper
91	100		
106	32.1	1.8	61.8
77	8.7	0.0	38.7

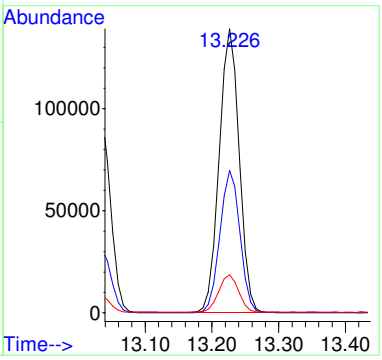


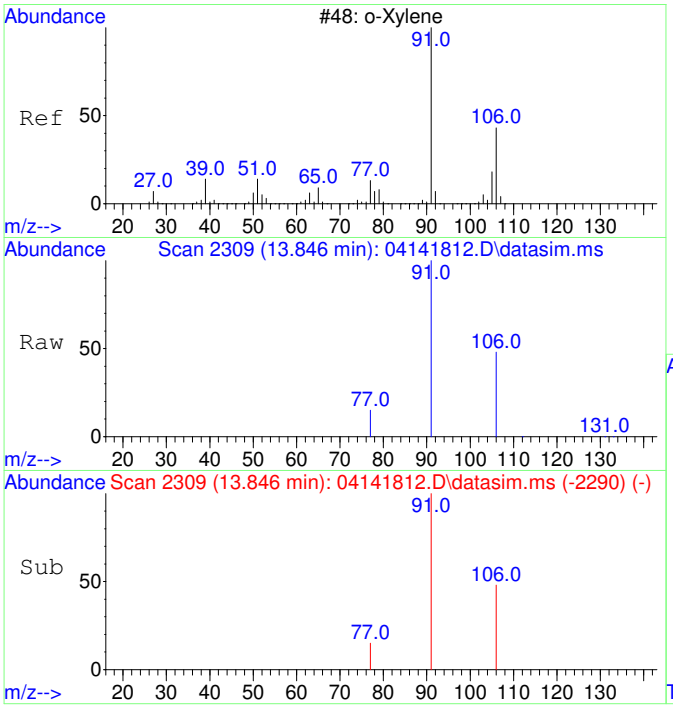


#19
m&p-Xylene
Concen: 9937.23 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 288718

Ion	Ratio	Lower	Upper
91	100		
106	50.1	20.0	80.0
77	13.2	0.0	43.4

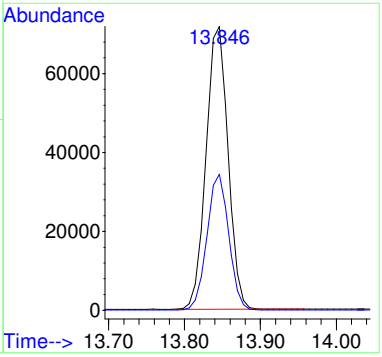


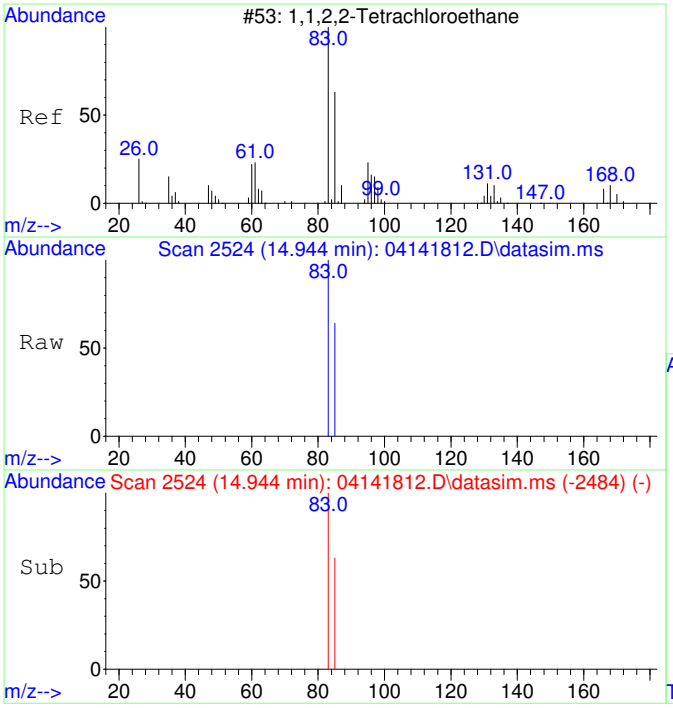


#20
o-Xylene
Concen: 4717.19 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 144419

Ion	Ratio	Lower	Upper
91	100		
106	47.4	16.9	76.9

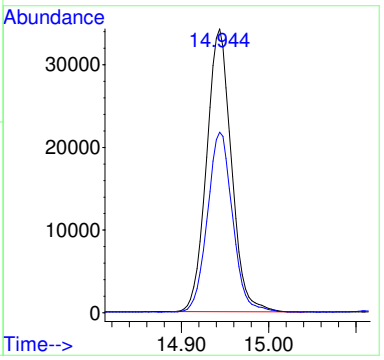


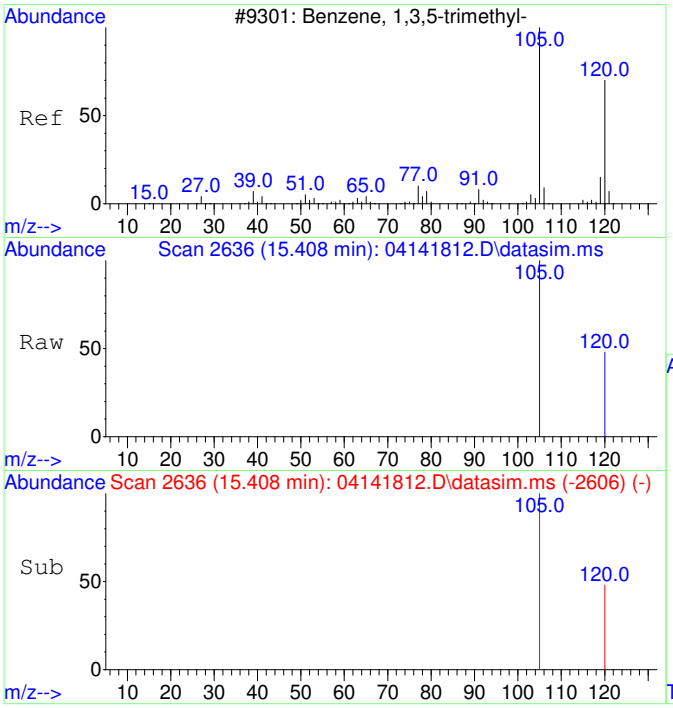


#21
1,1,2,2-Tetrachloroethane
Concen: 4752.08 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 83 Resp: 67527

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.3	94.3

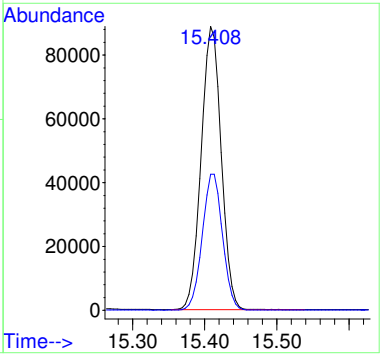


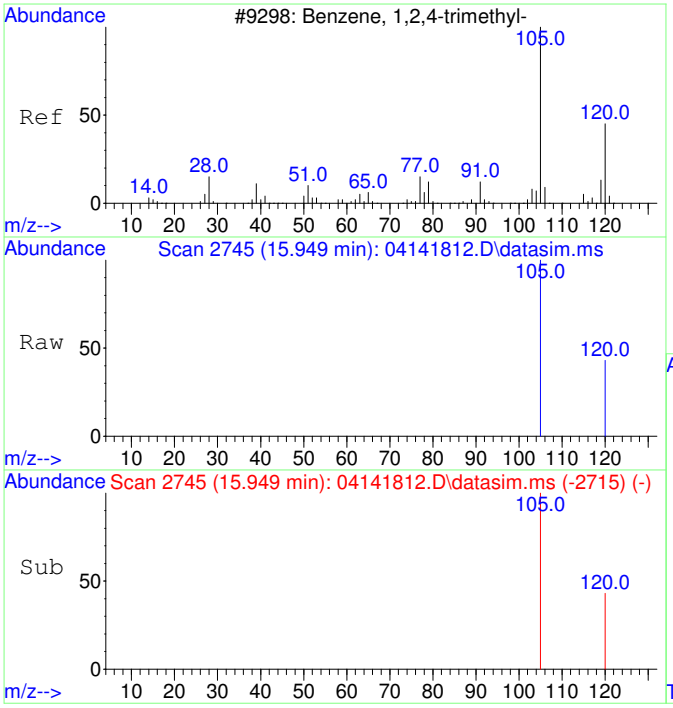


#22
1,3,5-Trimethylbenzene
Concen: 4788.57 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:105 Resp: 171589

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.1	78.1

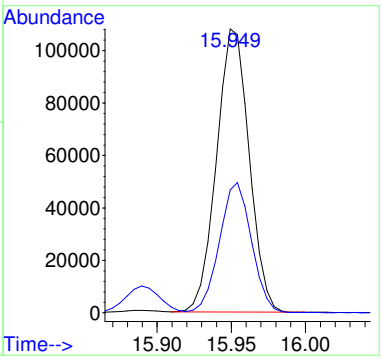


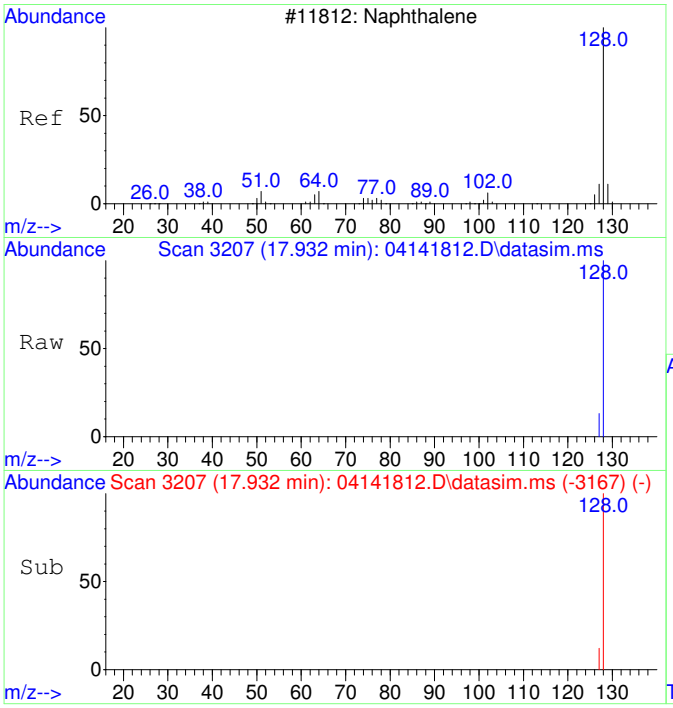


#23
1,2,4-Trimethylbenzene
Concen: 4533.88 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:105 Resp: 165260

Ion	Ratio	Lower	Upper
105	100		
120	44.4	14.5	74.5

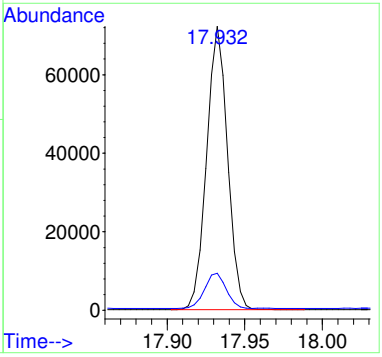


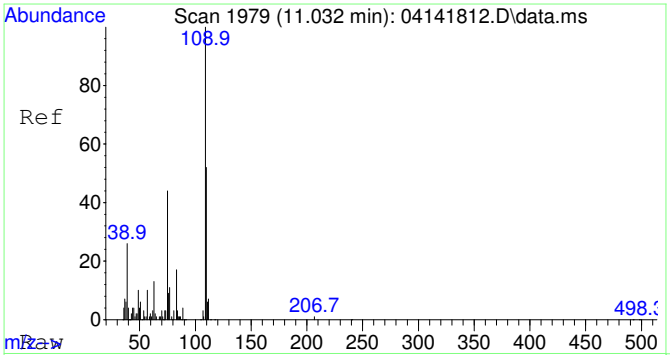


#24
Naphthalene
Concen: 1074.40 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:128 Resp: 67795

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.7

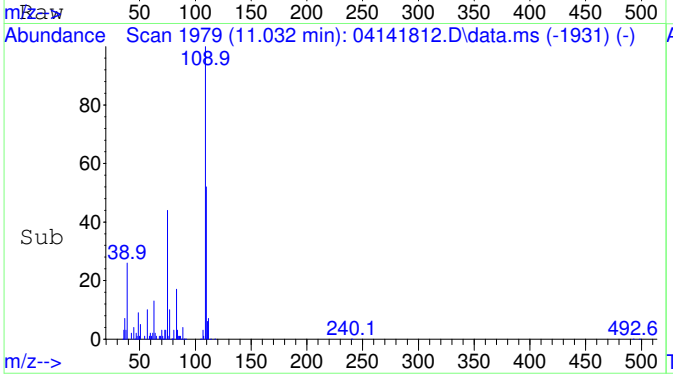


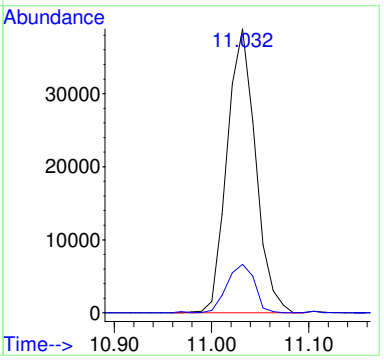


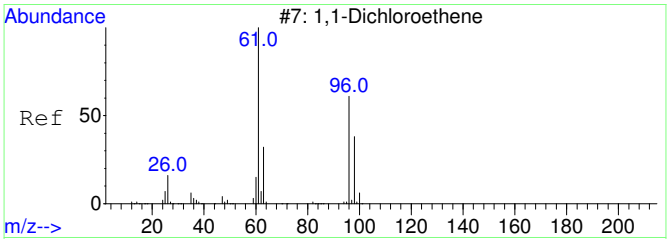
#25
2-Fluorotoluene SCAN
Concen: 5271.47 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:109 Resp: 78864

Ion	Ratio	Lower	Upper
109	100		
83	16.6	0.0	49.2



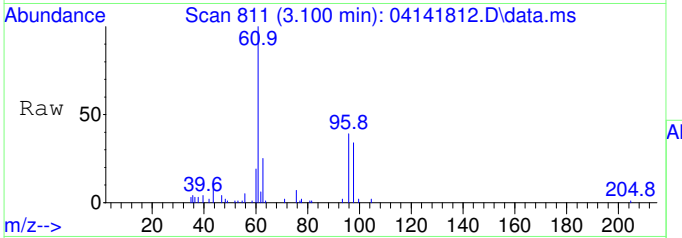


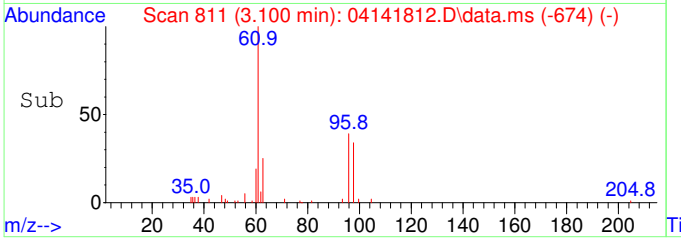


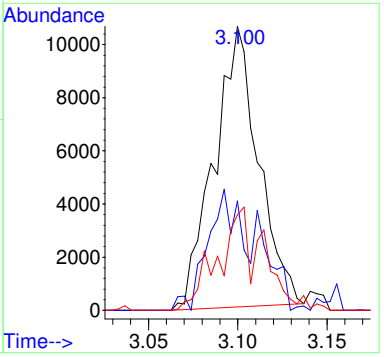
#26
1,1-Dichloroethene SCAN
Concen: 5522.19 ug/L
RT: 3.100 min Scan# 811
Delta R.T. 0.007 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

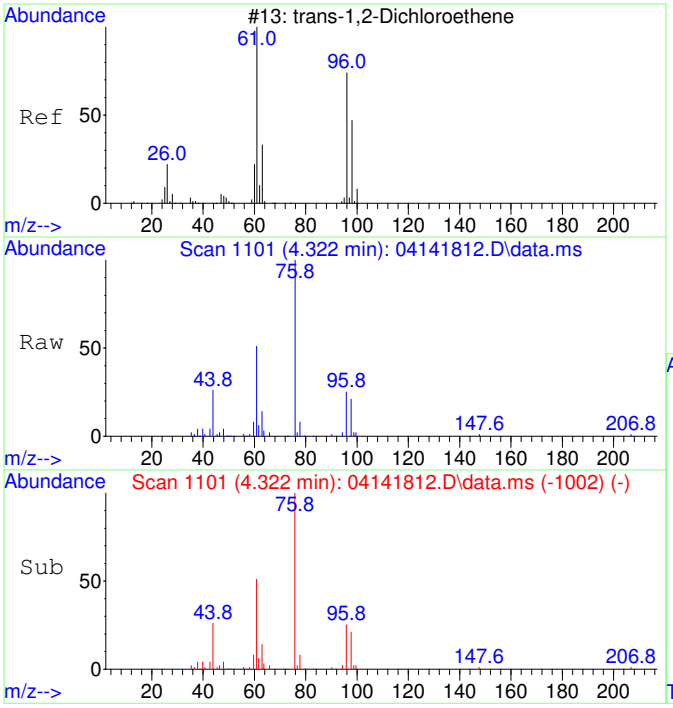
Tgt Ion: 61 Resp: 18310

Ion	Ratio	Lower	Upper
61	100		
96	21.7	21.6	81.6
98	8.5	7.5	67.5





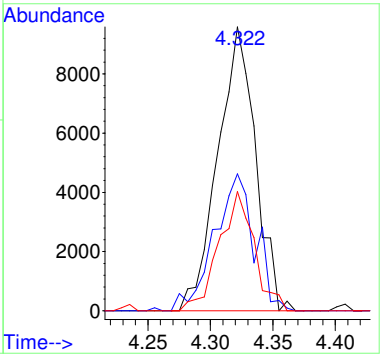


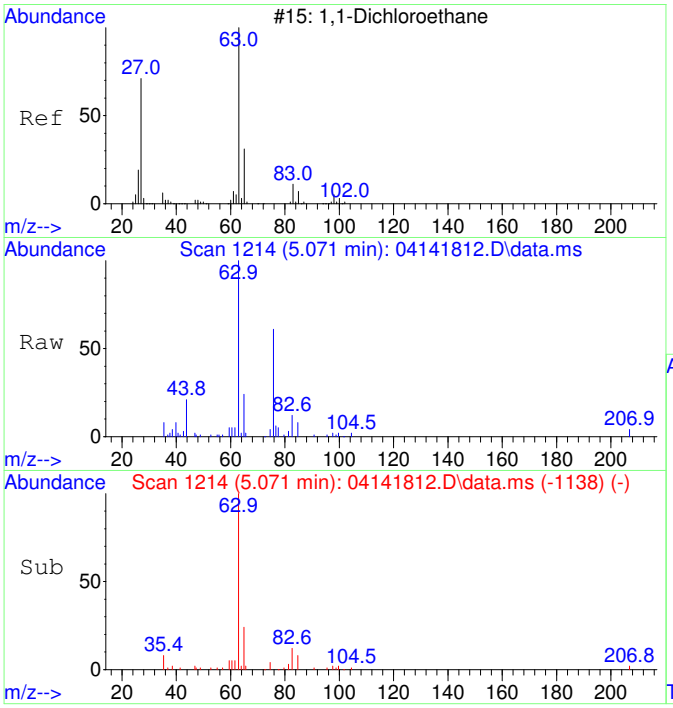


#27
trans-1,2-Dichloroethene SCAN
Concen: 6172.13 ug/L
RT: 4.322 min Scan# 1101
Delta R.T. 0.013 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 20052

Ion	Ratio	Lower	Upper
61	100		
96	51.9	51.8	111.8
98	39.1	22.7	82.7

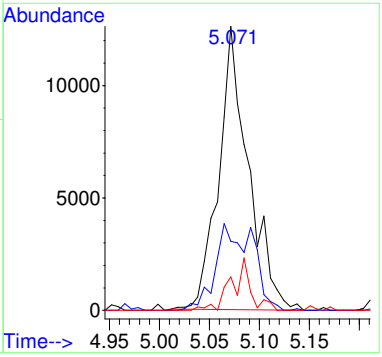


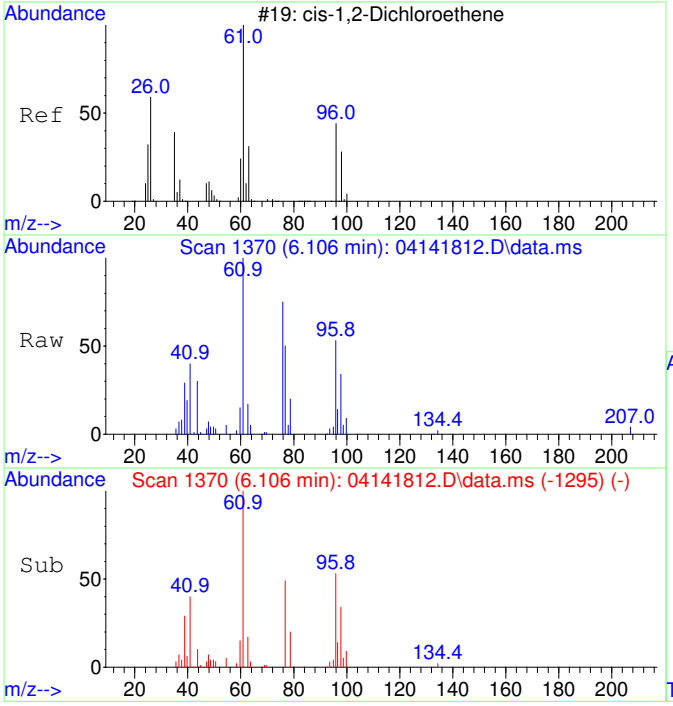


#28
1,1-Dichloroethane SCAN
Concen: 5278.77 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 63 Resp: 26241

Ion	Ratio	Lower	Upper
63	100		
65	37.9	2.2	62.2
83	11.8	0.0	38.2

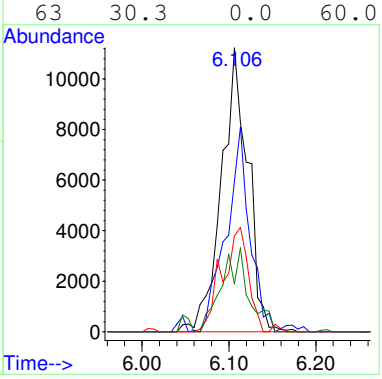


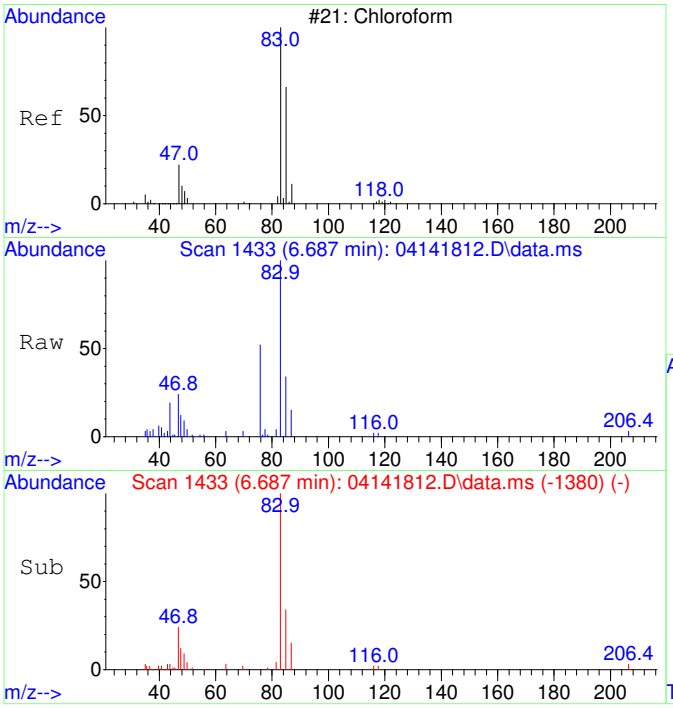


#29
cis-1,2-Dichloroethene SCAN
Concen: 6103.35 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 23816

Ion	Ratio	Lower	Upper
61	100		
96	62.5	49.4	109.4
98	36.0	9.5	69.5
63	30.3	0.0	60.0

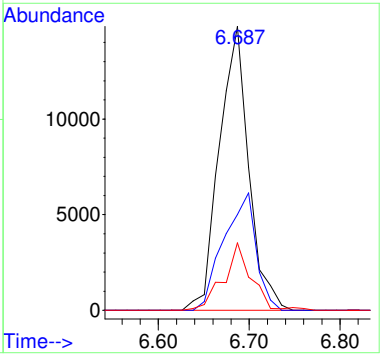


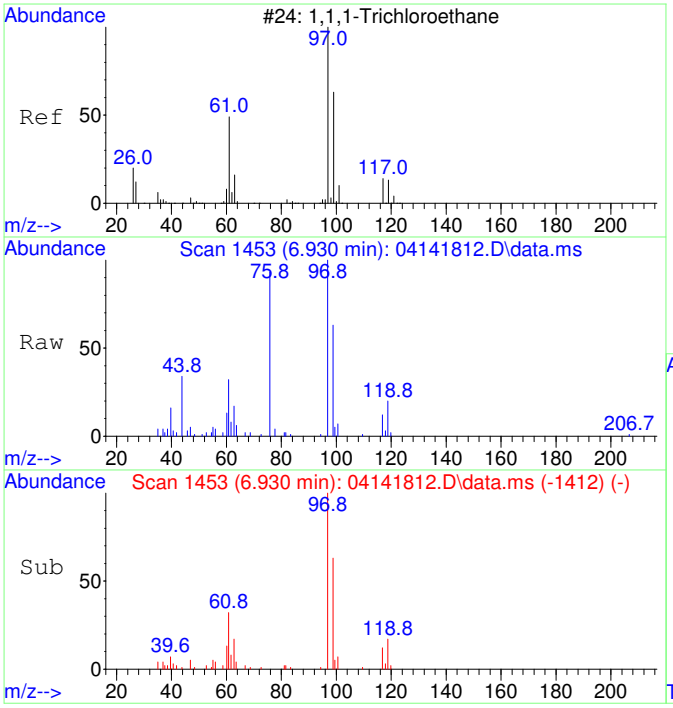


#30
Chloroform SCAN
Concen: 7102.23 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 83 Resp: 33438

Ion	Ratio	Lower	Upper
83	100		
85	45.6	47.8	107.8#
47	22.5	8.2	68.2

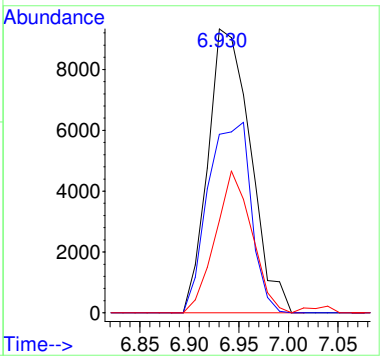


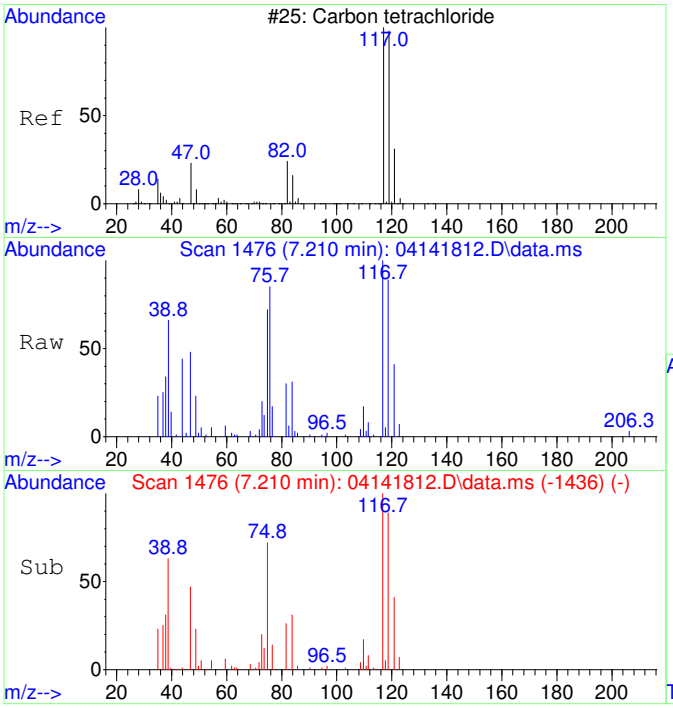


#31
1,1,1-Trichloroethane SCAN
Concen: 4724.31 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 97 Resp: 27912

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	42.9	16.3	76.3

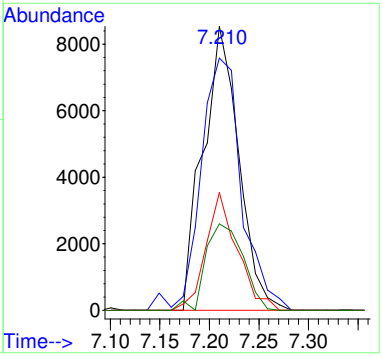


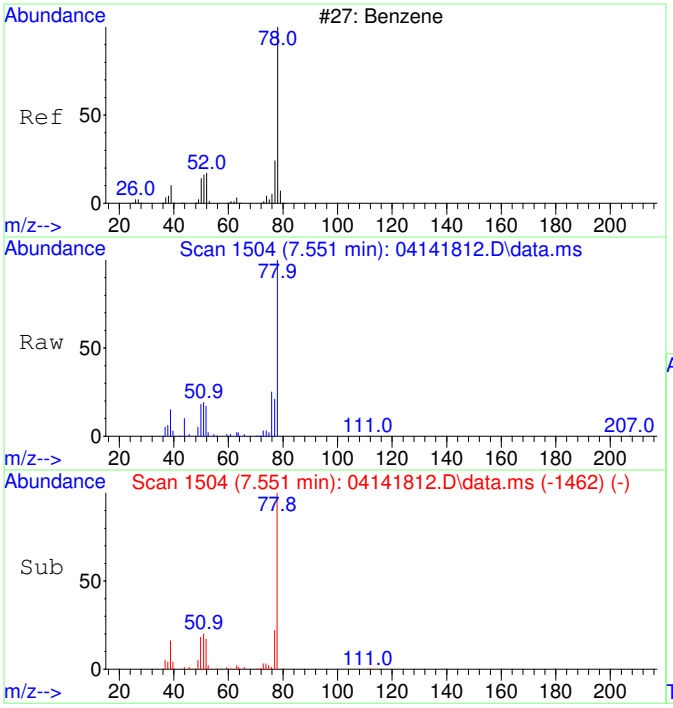


#32
Carbon tetrachloride SCAN
Concen: 5071.46 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:117 Resp: 21551

Ion	Ratio	Lower	Upper
117	100		
119	100.8	54.4	114.4
121	36.3	0.0	53.0
82	31.9	7.9	67.9

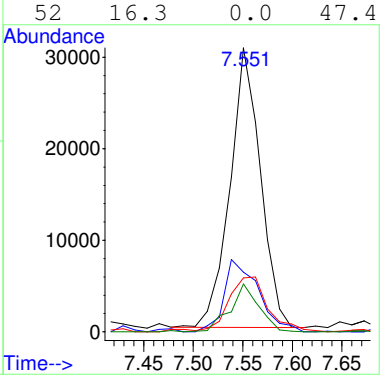


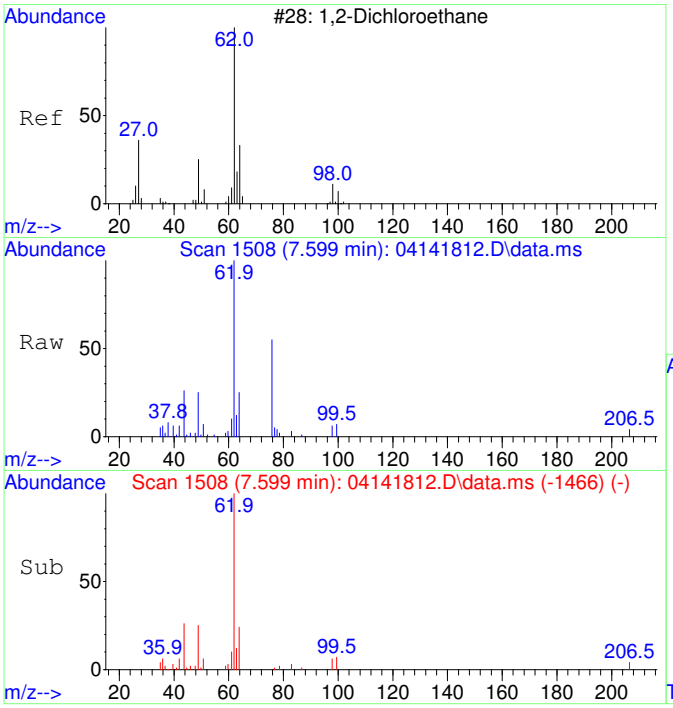


#33
Benzene SCAN
Concen: 5062.41 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 78 Resp: 65210

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	25.9	0.0	47.2
52	16.3	0.0	47.4

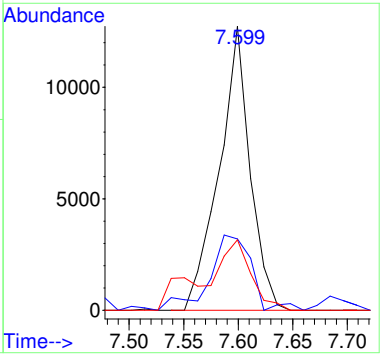


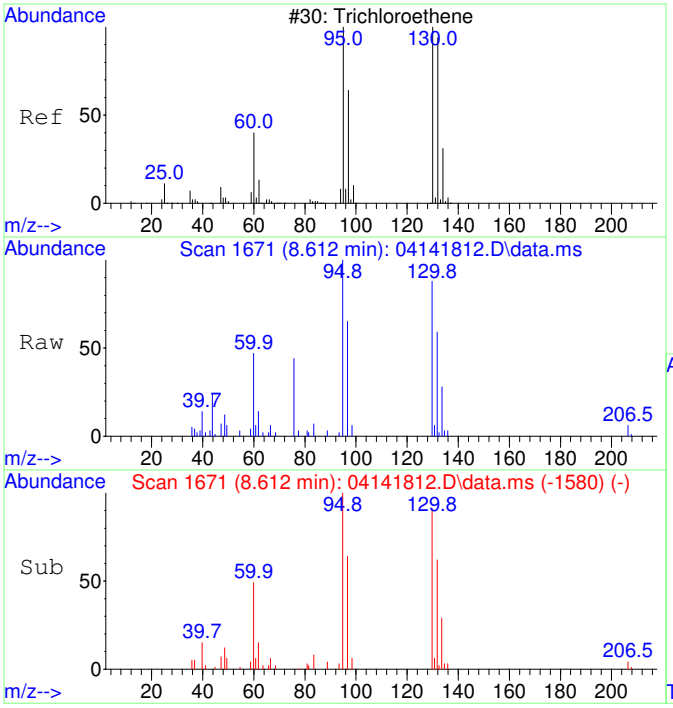


#34
1,2-Dichloroethane SCAN
Concen: 5143.63 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 62 Resp: 25123

Ion	Ratio	Lower	Upper
62	100		
64	32.8	4.4	64.4
49	15.5	1.2	61.2

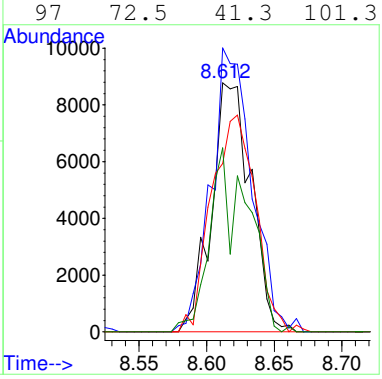


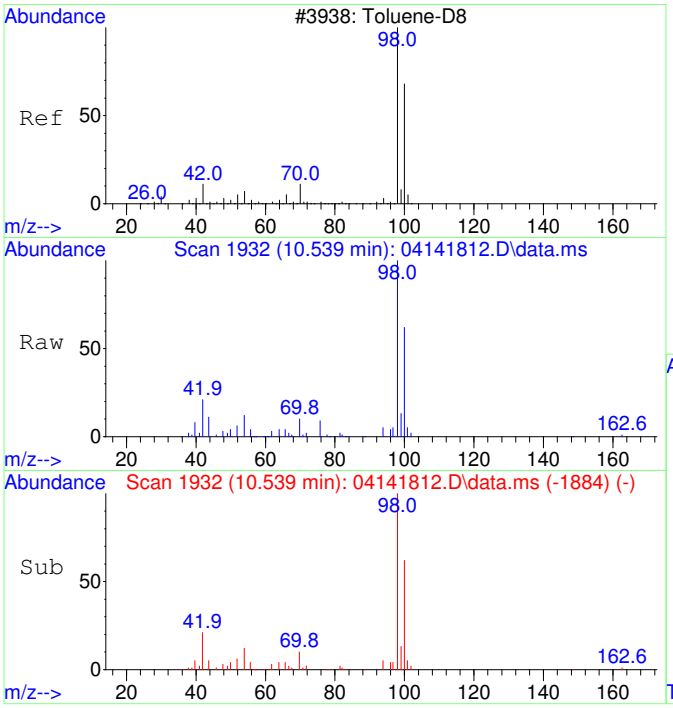


#35
Trichloroethene SCAN
Concen: 5532.76 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:130 Resp: 17906

Ion	Ratio	Lower	Upper
130	100		
95	117.3	71.3	131.3
132	97.1	75.1	135.1
97	72.5	41.3	101.3

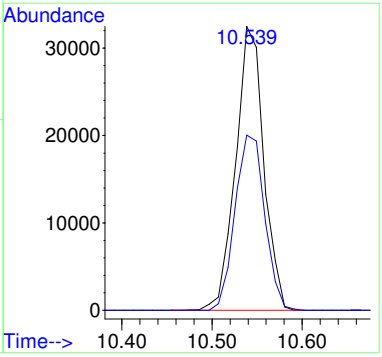


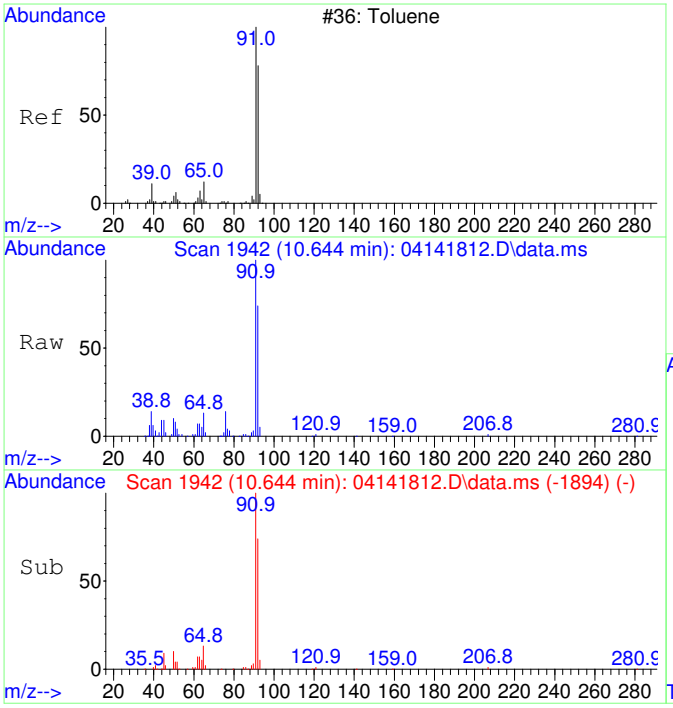


#36
Toluene-d8 SCAN
Concen: 5354.69 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 98 Resp: 70336

Ion	Ratio	Lower	Upper
98	100		
100	65.3	37.3	97.3

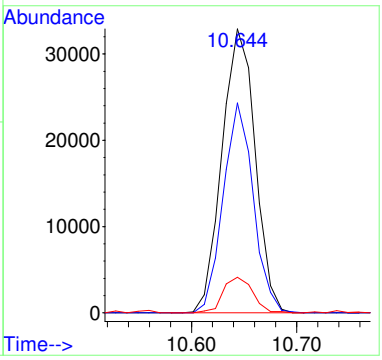


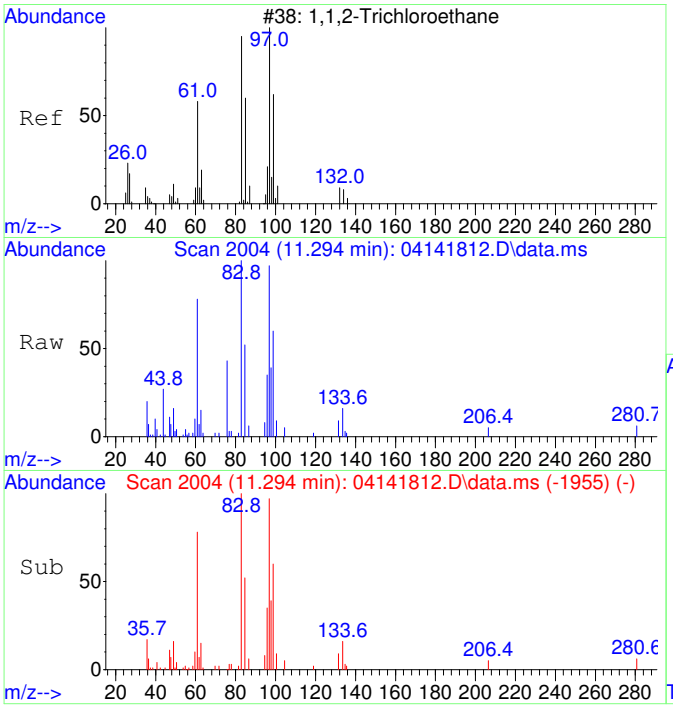


#37
Toluene SCAN
Concen: 4918.20 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 72251

Ion	Ratio	Lower	Upper
91	100		
92	66.9	39.1	99.1
65	11.2	0.0	43.8

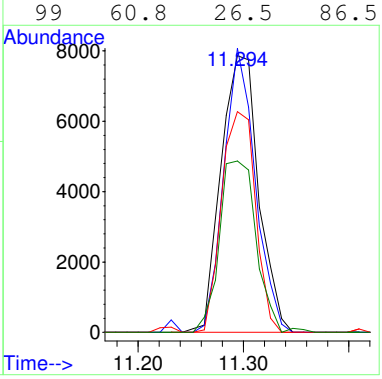


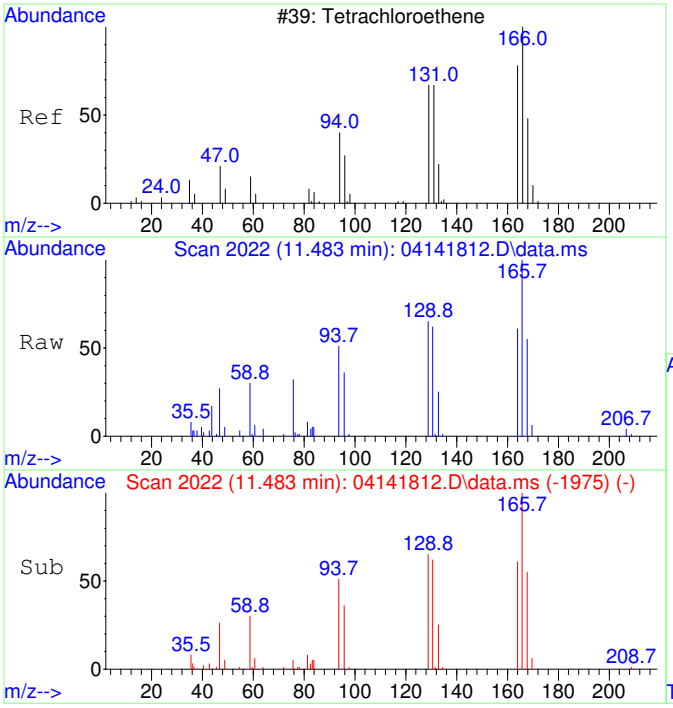


#38
1,1,2-Trichloroethane SCAN
Concen: 4361.01 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.011 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 97 Resp: 19620

Ion	Ratio	Lower	Upper
97	100		
83	85.6	47.4	107.4
61	71.5	29.7	89.7
99	60.8	26.5	86.5

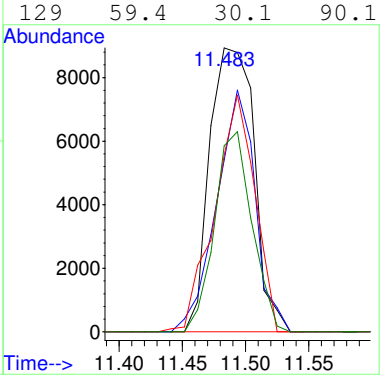


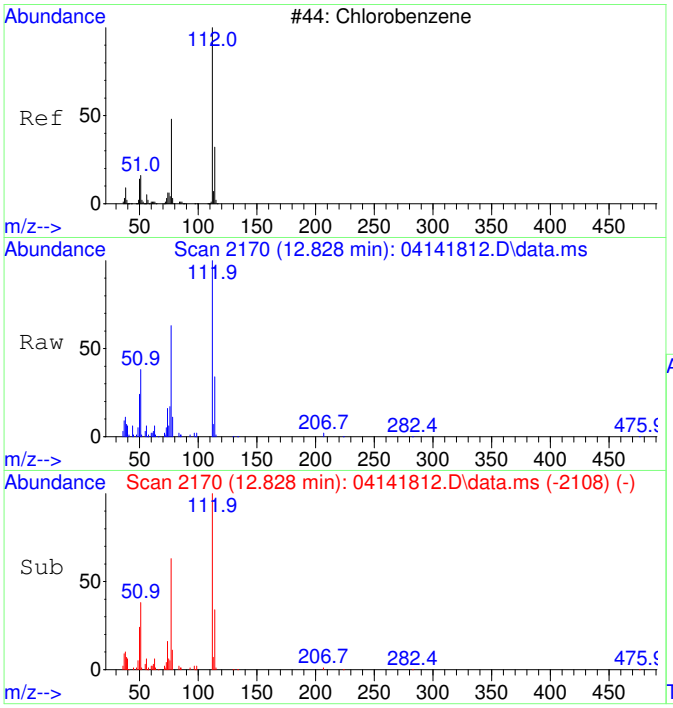


#39
Tetrachloroethene SCAN
Concen: 4581.26 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. -0.010 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:166 Resp: 21948

Ion	Ratio	Lower	Upper
166	100		
164	73.8	49.8	109.8
131	74.9	42.0	102.0
129	59.4	30.1	90.1

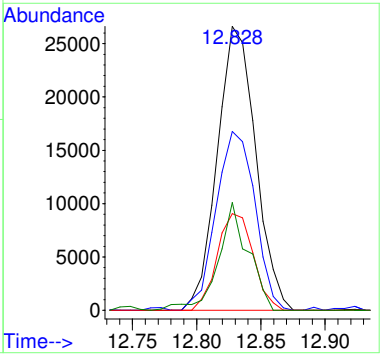


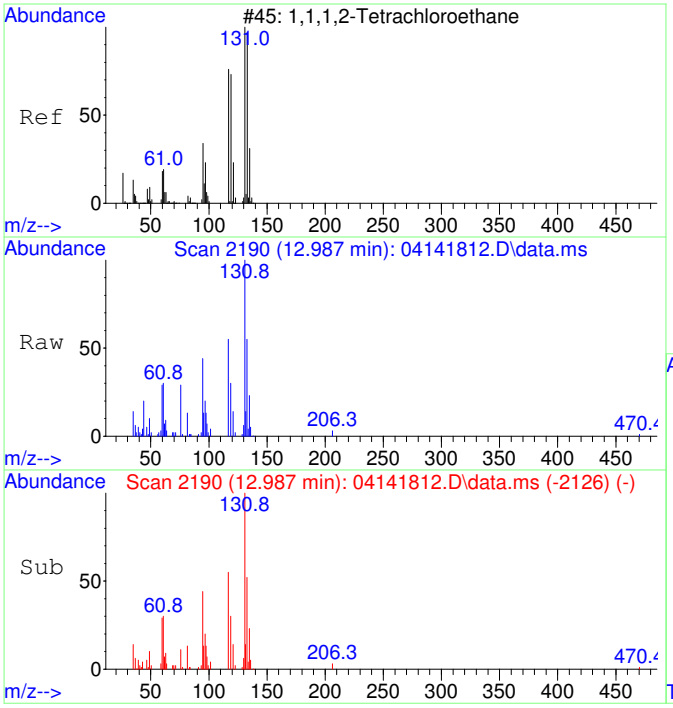


#40
Chlorobenzene SCAN
Concen: 4783.70 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.008 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:112 Resp: 55226

Ion	Ratio	Lower	Upper
112	100		
77	63.9	39.7	99.7
114	31.9	1.2	61.2
51	29.6	0.0	57.1

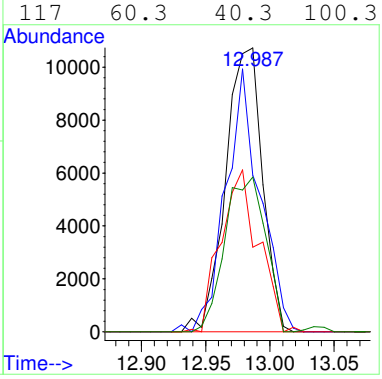


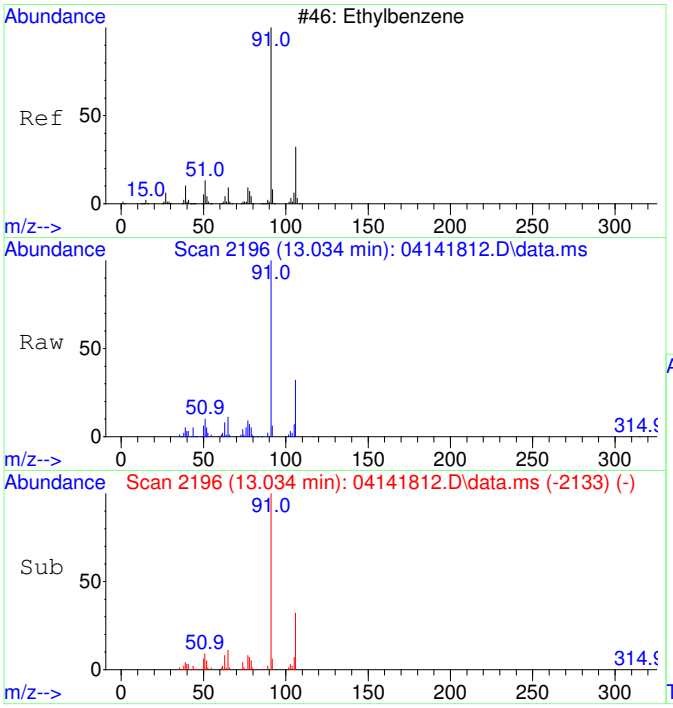


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 5713.58 ug/L
RT: 12.987 min Scan# 2190
Delta R.T. 0.008 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:131 Resp: 21444

Ion	Ratio	Lower	Upper
131	100		
133	86.0	78.7	138.7
119	58.1	43.0	103.0
117	60.3	40.3	100.3

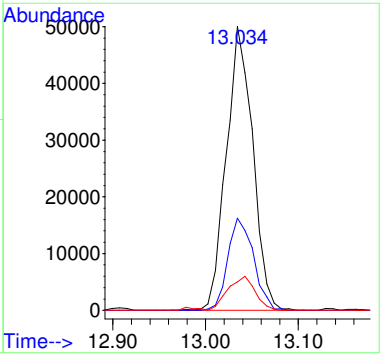


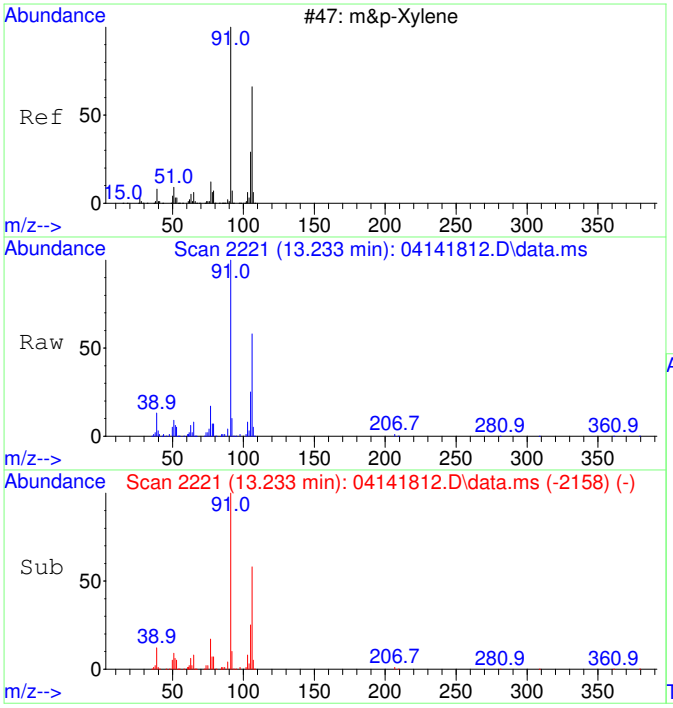


#42
Ethylbenzene SCAN
Concen: 5162.07 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 99403

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.8	61.8
51	12.3	0.0	45.4

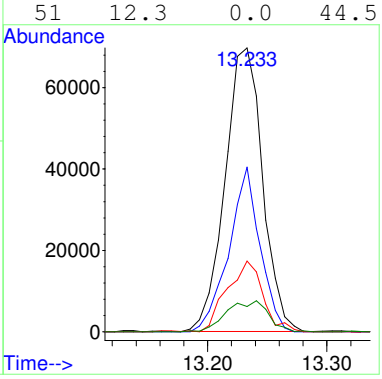


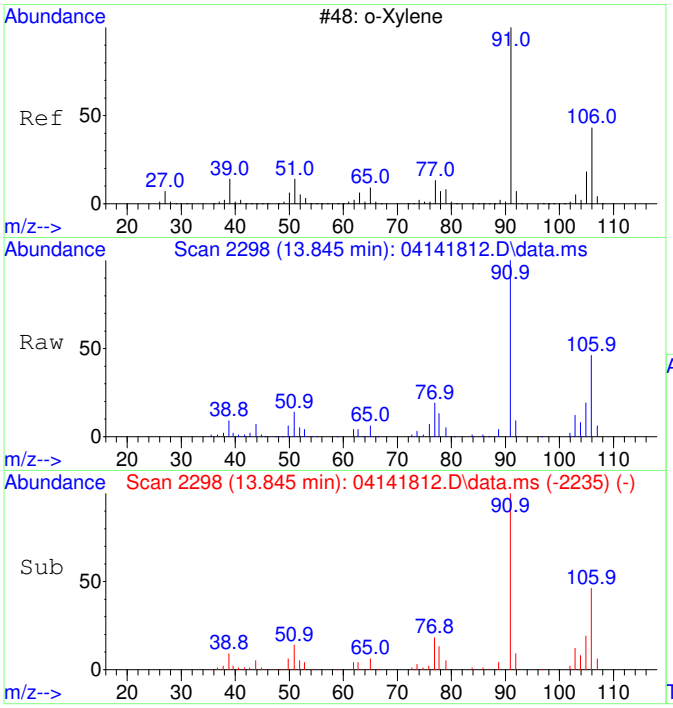


#43
m&p-Xylene SCAN
Concen: 4867.24 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 152528

Ion	Ratio	Lower	Upper
91	100		
106	48.2	14.6	74.6
105	23.8	0.0	52.8
51	12.3	0.0	44.5

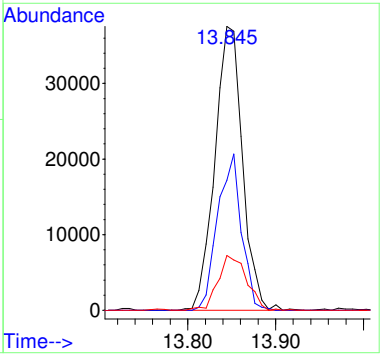


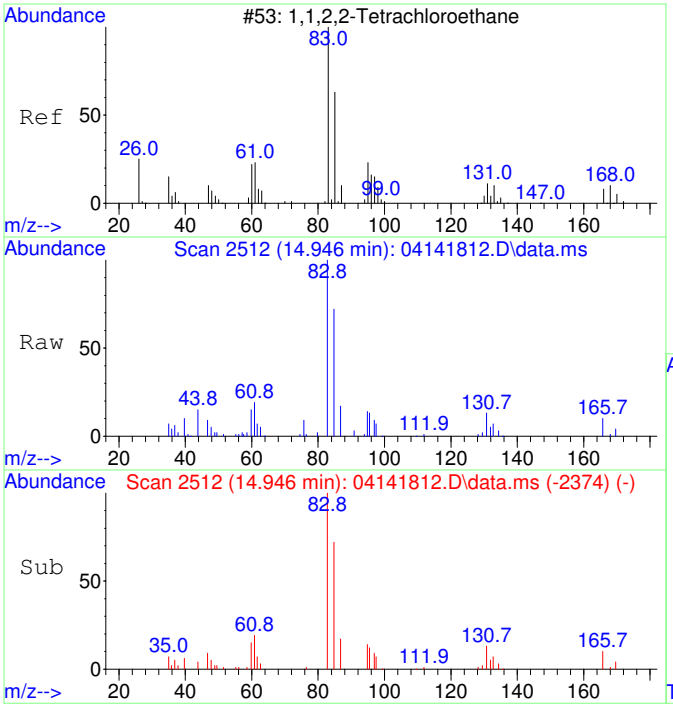


#44
o-Xylene SCAN
Concen: 4838.25 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 82100

Ion	Ratio	Lower	Upper
91	100		
106	47.5	20.2	80.2
105	20.2	0.0	54.9

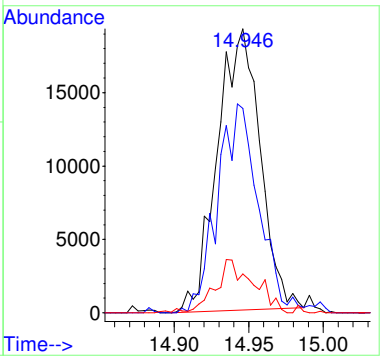


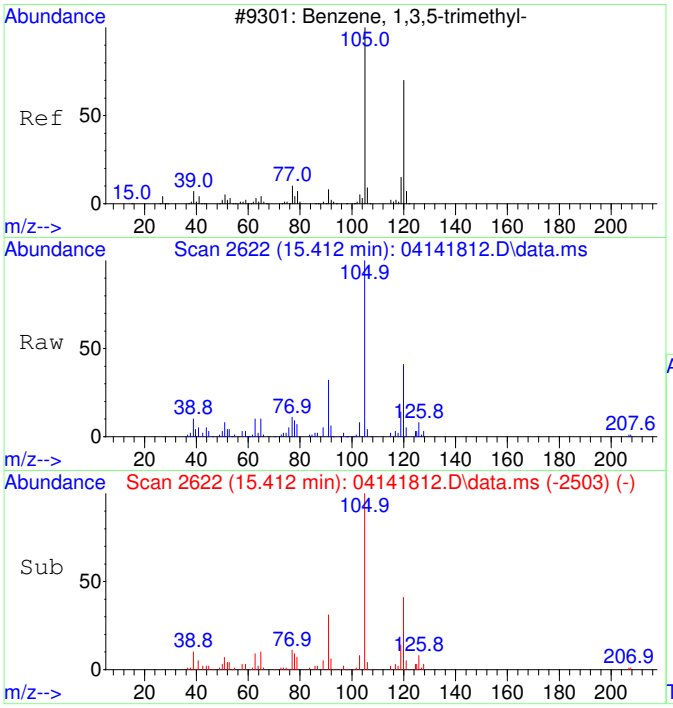


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 4312.81 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 83 Resp: 38306

Ion	Ratio	Lower	Upper
83	100		
85	68.7	32.4	92.4
95	16.0	0.0	41.2

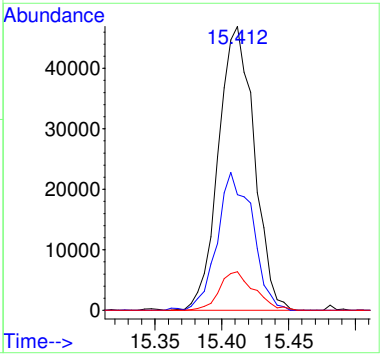


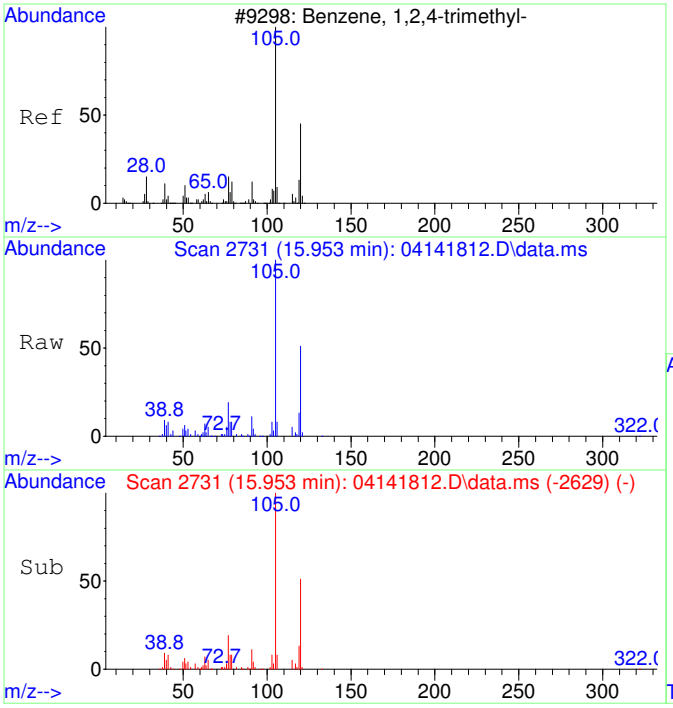


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4478.80 ug/L
RT: 15.412 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:105 Resp: 87354

Ion	Ratio	Lower	Upper
105	100		
120	48.3	16.1	76.1
119	13.3	0.0	41.8

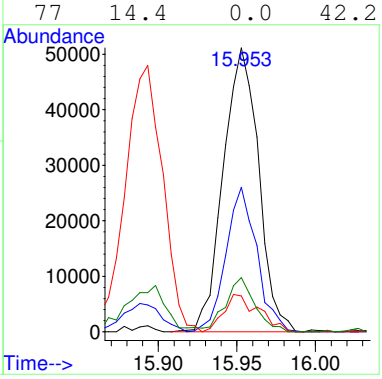


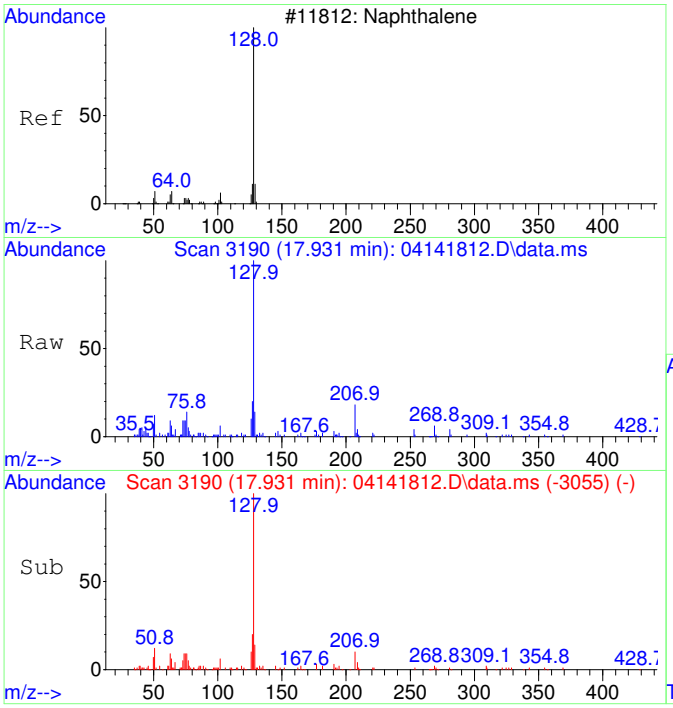


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4057.24 ug/L
RT: 15.953 min Scan# 2731
Delta R.T. 0.005 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:105 Resp: 79765

Ion	Ratio	Lower	Upper
105	100		
120	44.5	12.8	72.8
119	13.0	0.0	42.5
77	14.4	0.0	42.2

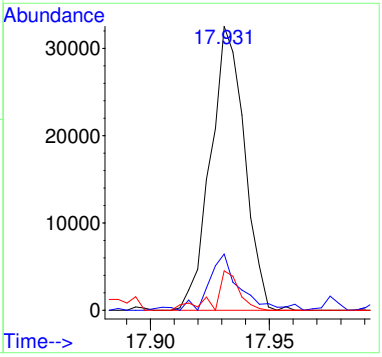


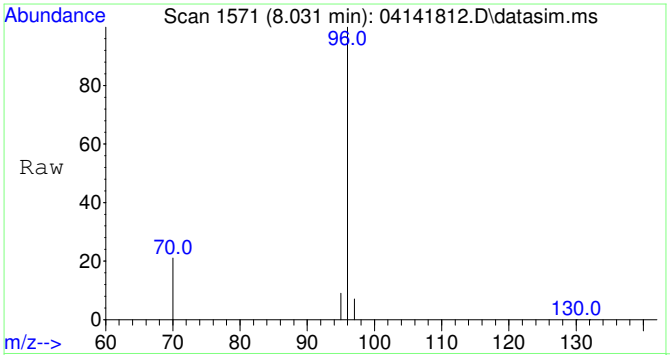


#48
Naphthalene SCAN
Concen: 1014.23 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:128 Resp: 32127

Ion	Ratio	Lower	Upper
128	100		
127	18.3	0.0	45.2
129	7.6	0.0	42.0

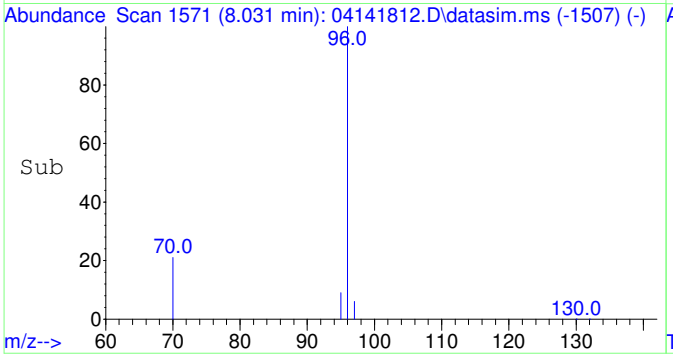


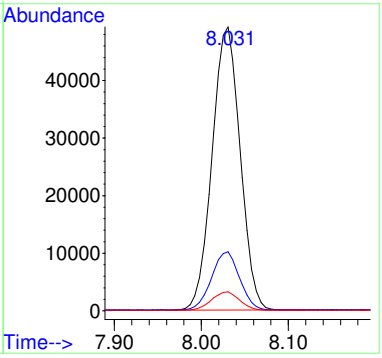


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.031 min Scan# 1571
Delta R.T. 0.005 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 96 Resp: 110016

Ion	Ratio	Lower	Upper
96	100		
70	20.6	0.0	50.7
97	6.6	0.0	36.7





Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141812.D
Acq On : 14 Apr 2018 15:13
InstName : AG5975C
Operator : RH
Sample : B18D036-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

M.I. Performed By:
RH at 11:52 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:12 pm, Apr 16, 2018

Quant Time: Apr 16 09:38:13 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

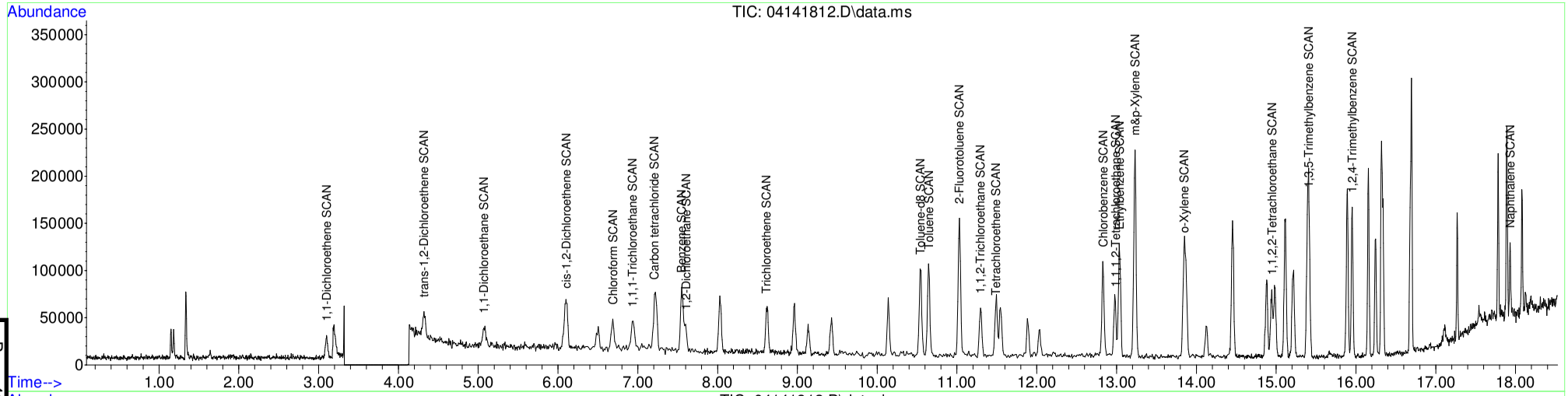
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	11.033	109	154829	5000.00	ug/L	0.00
49) Fluorobenzene	8.031	96	110016	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.540	98	135027	5195.82	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.92%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.097	61	29374m	4322.09	ug/L	
3] trans-1,2-Dichloroethene	4.316	61	32763	4717.88	ug/L	100
4] 1,1-Dichloroethane	5.073	63	42948	4644.84	ug/L	99
5] cis-1,2-Dichloroethene	6.101	61	41438	4844.12	ug/L	100
6] Chloroform	6.676	83	46766	4648.51	ug/L	100
7] 1,1,1-Trichloroethane	6.944	97	48237	4910.37	ug/L	99
8] Carbon tetrachloride	7.211	117	43981	4907.41	ug/L	98
9] Benzene	7.552	78	115507	4657.30	ug/L	100
10] 1,2-Dichloroethane	7.588	62	42259	4886.78	ug/L	99
11] Trichloroethene	8.619	130	34330	5023.80	ug/L	100
13] Toluene	10.634	91	150078	4588.28	ug/L	99
14] 1,1,2-Trichloroethane	11.296	97	34422	4763.11	ug/L	99
15] Tetrachloroethene	11.495	166	44854	5003.11	ug/L	100
16] Chlorobenzene	12.829	112	108381	4702.29	ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	39123	5098.83	ug/L	99
18] Ethylbenzene	13.036	91	193662	5215.65	ug/L	100
19] m&p-Xylene	13.226	91	288718	9937.23	ug/L	100
20] o-Xylene	13.846	91	144419	4717.19	ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.944	83	67527	4752.08	ug/L	100
22] 1,3,5-Trimethylbenzene	15.408	105	171589	4788.57	ug/L	100
23] 1,2,4-Trimethylbenzene	15.949	105	165260	4533.88	ug/L	100
24] Naphthalene	17.932	128	67795	1074.40	ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	78864	5271.47	ug/L	94
26) 1,1-Dichloroethene SCAN	3.100	61	18310	5522.19	ug/L	55
27) trans-1,2-Dichloroethe...	4.322	61	20052	6172.13	ug/L	72
28) 1,1-Dichloroethane SCAN	5.071	63	26241	5278.77	ug/L	90
29) cis-1,2-Dichloroethene...	6.106	61	23816	6103.35	ug/L	88
30) Chloroform SCAN	6.687	83	33438	7102.23	ug/L #	67
31) 1,1,1-Trichloroethane ...	6.930	97	27912	4724.31	ug/L #	61
32) Carbon tetrachloride SCAN	7.210	117	21551	5071.46	ug/L	83
33) Benzene SCAN	7.551	78	65210	5062.41	ug/L #	64
34) 1,2-Dichloroethane SCAN	7.599	62	25123	5143.63	ug/L	85
35) Trichloroethene SCAN	8.612	130	17906	5532.76	ug/L	91
36) Toluene-d8 SCAN	10.539	98	70336	5354.69	ug/L	97
37) Toluene SCAN	10.644	91	72251	4918.20	ug/L	97
38) 1,1,2-Trichloroethane ...	11.294	97	19620	4361.01	ug/L	90
39) Tetrachloroethene SCAN	11.483	166	21948	4581.26	ug/L	96
40) Chlorobenzene SCAN	12.828	112	55226	4783.70	ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.987	131	21444	5713.58	ug/L	82
42) Ethylbenzene SCAN	13.034	91	99403	5162.07	ug/L	97
43) m&p-Xylene SCAN	13.233	91	152528	4867.24	ug/L	95
44) o-Xylene SCAN	13.845	91	82100	4838.25	ug/L	94
45) 1,1,2,2-Tetrachloroeth...	14.946	83	38306	4312.81	ug/L	91
46) 1,3,5-Trimethylbenzene...	15.412	105	87354	4478.80	ug/L	97
47) 1,2,4-Trimethylbenzene...	15.953	105	79765	4057.24	ug/L	97
48) Naphthalene SCAN	17.931	128	32127	1014.23	ug/L	91

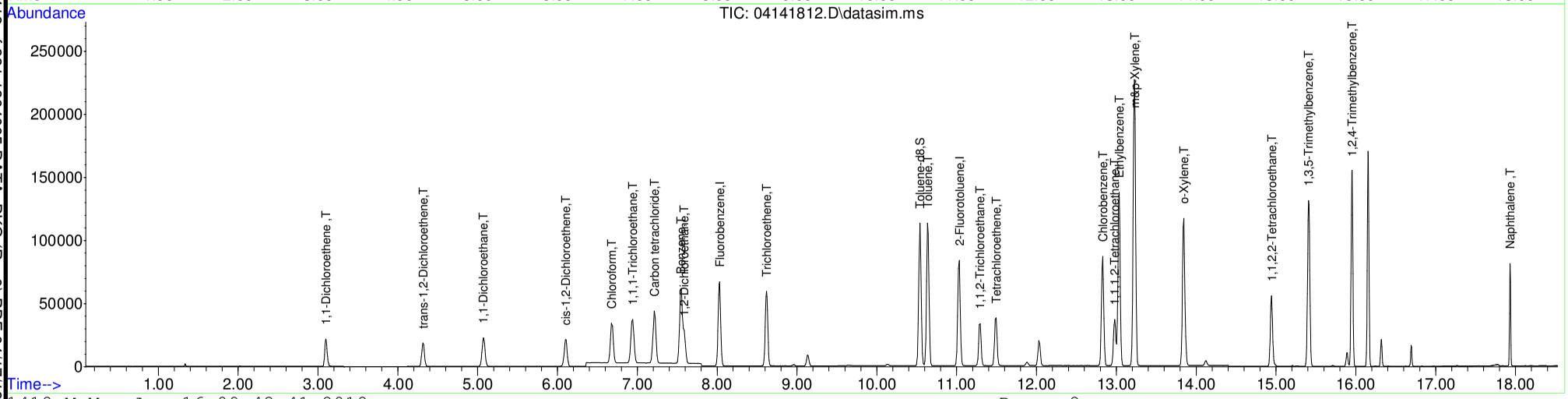
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141812.D
Acq On : 14 Apr 2018 15:13
InstName : AG5975C
Operator : RH
Sample : B18D036-BSD1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 16 09:38:13 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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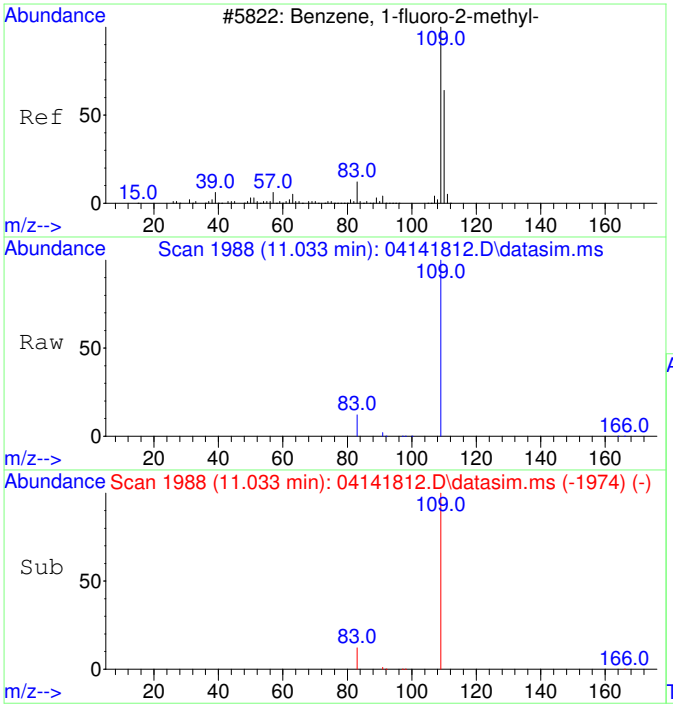
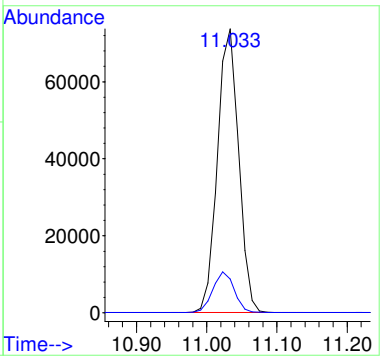
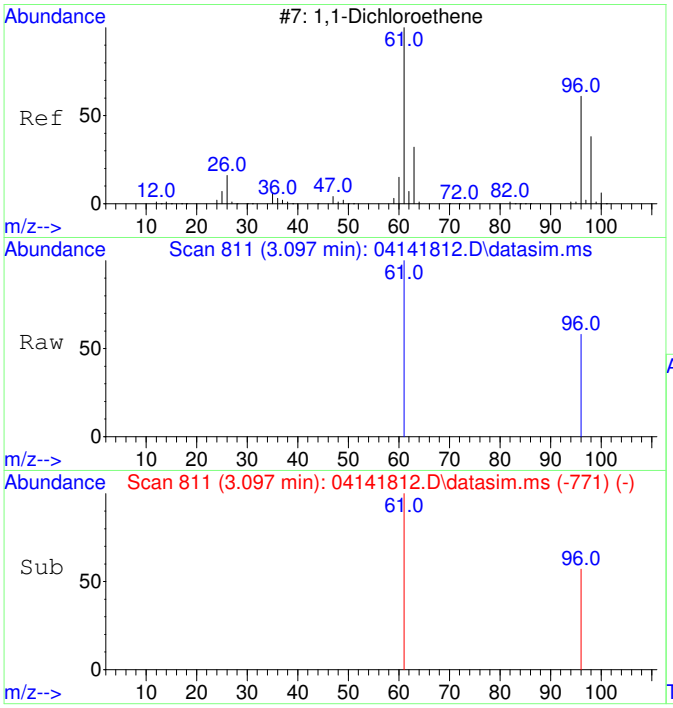


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:109 Resp: 154829

Ion	Ratio	Lower	Upper
109	100		
83	14.3	0.0	44.4

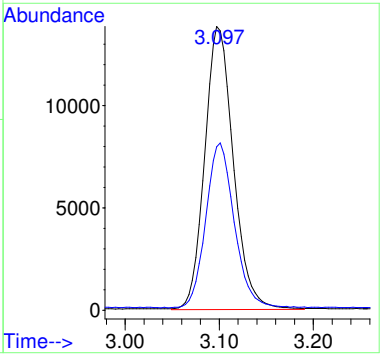


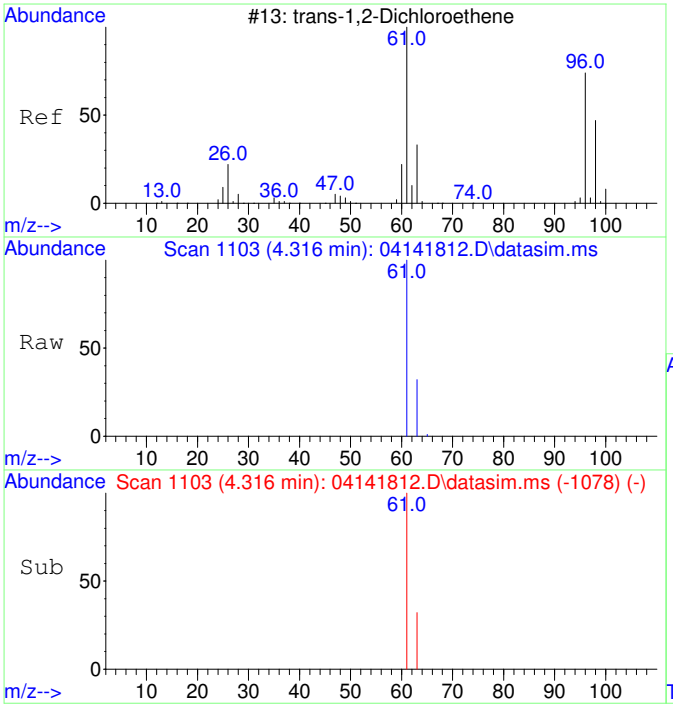


#2
1,1-Dichloroethene
Concen: 4322.09 ug/L m
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 29374

Ion	Ratio	Lower	Upper
61	100		
96	57.5	26.1	86.1

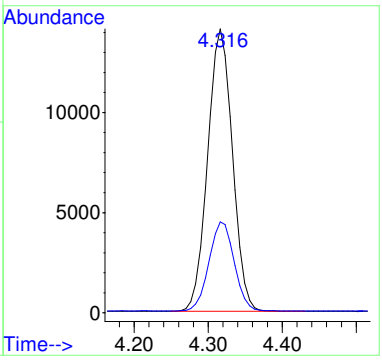


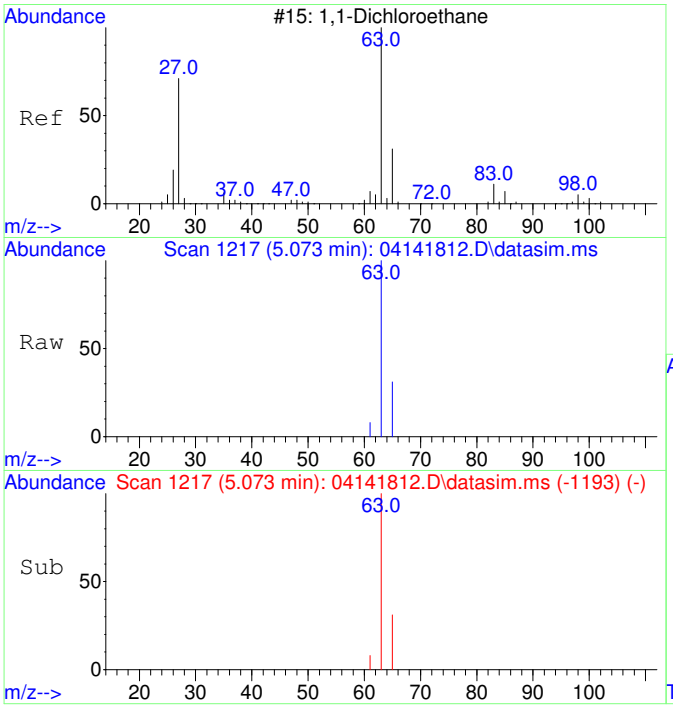


#3
trans-1,2-Dichloroethene
Concen: 4717.88 ug/L
RT: 4.316 min Scan# 1103
Delta R.T. 0.013 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 32763

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

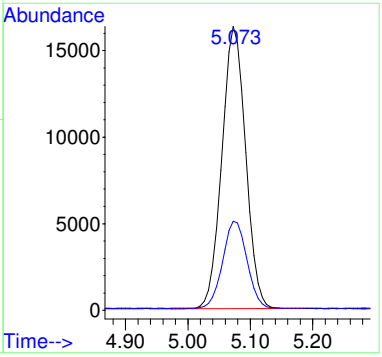


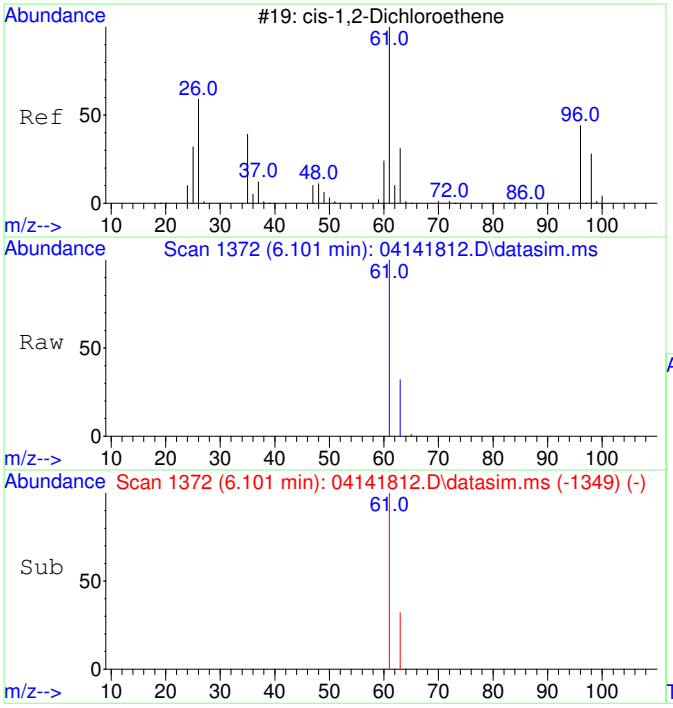


#4
1,1-Dichloroethane
Concen: 4644.84 ug/L
RT: 5.073 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 63 Resp: 42948

Ion	Ratio	Lower	Upper
63	100		
65	31.4	1.8	61.8

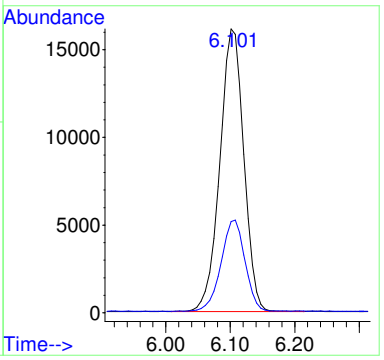


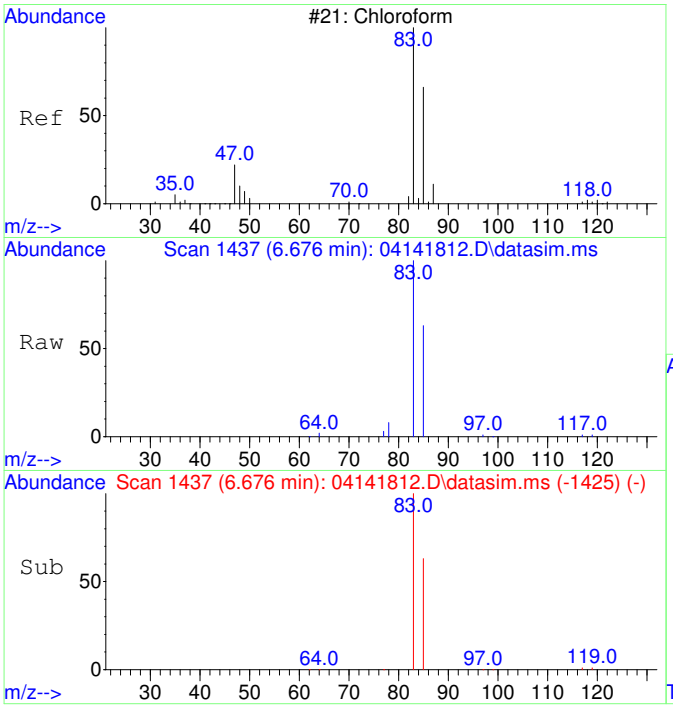


#5
cis-1,2-Dichloroethene
Concen: 4844.12 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 41438

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.0	62.0

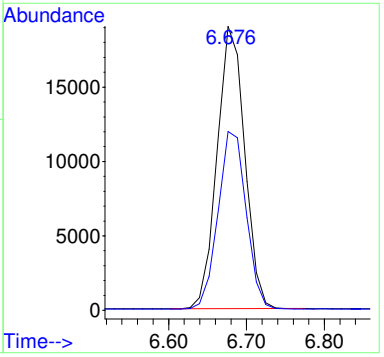


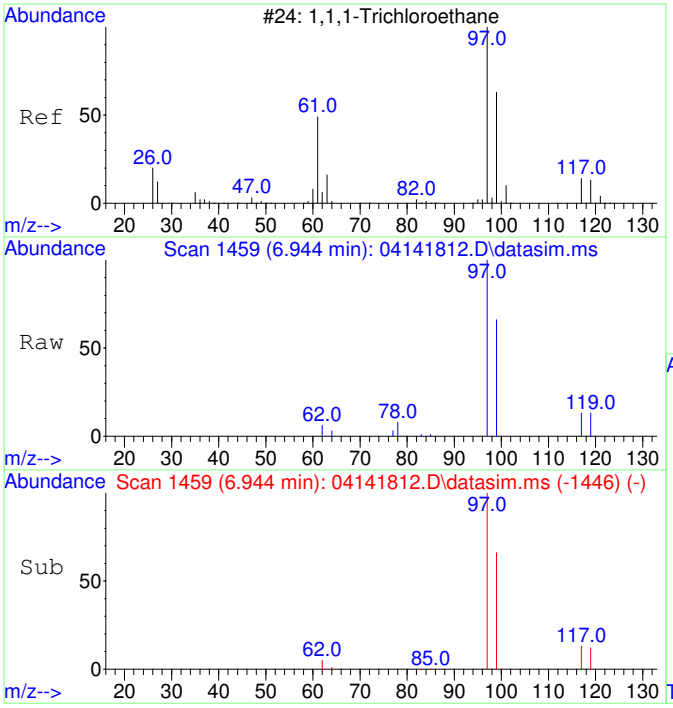


#6
Chloroform
Concen: 4648.51 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 83 Resp: 46766

Ion	Ratio	Lower	Upper
83	100		
85	64.1	34.2	94.2

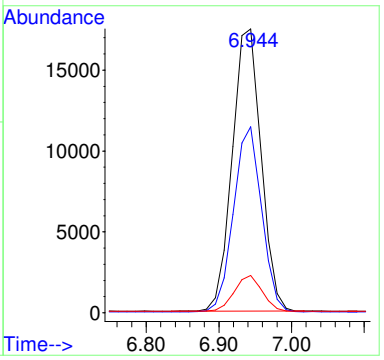


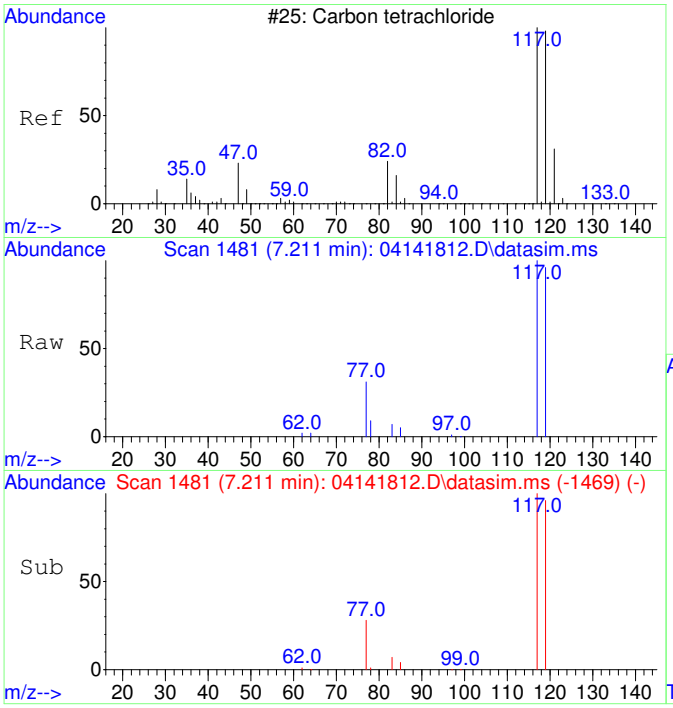


#7
1,1,1-Trichloroethane
Concen: 4910.37 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 97 Resp: 48237

Ion	Ratio	Lower	Upper
97	100		
99	63.7	34.5	94.5
117	12.3	0.0	42.6

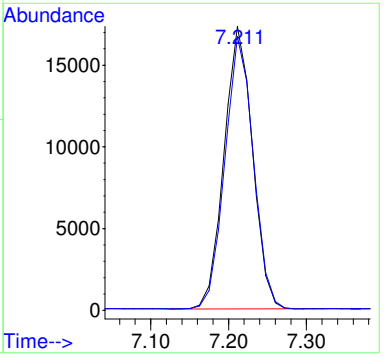


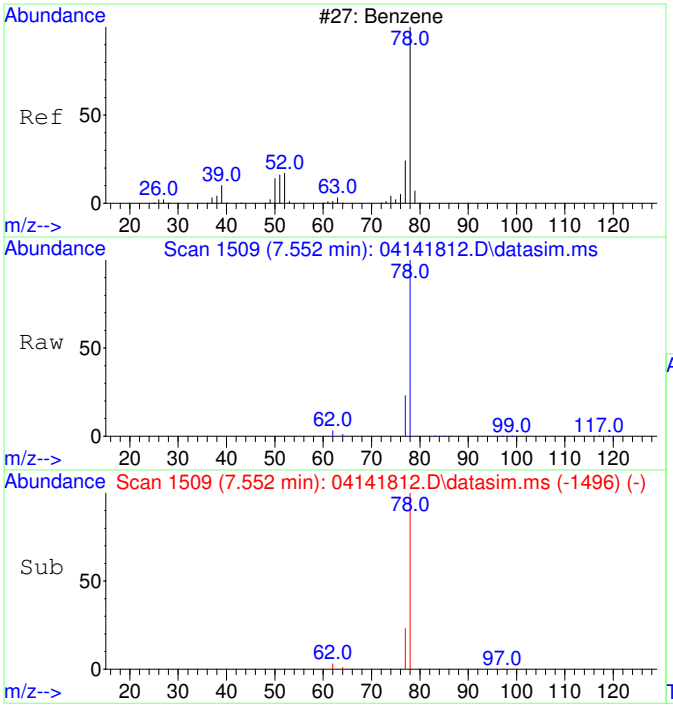


#8
Carbon tetrachloride
Concen: 4907.41 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:117 Resp: 43981

Ion	Ratio	Lower	Upper
117	100		
119	96.1	64.5	124.5

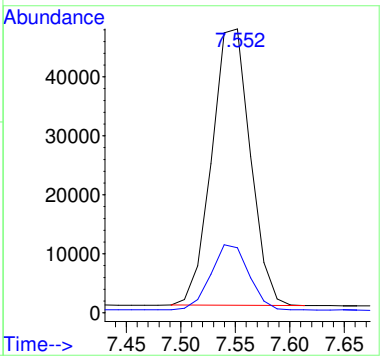


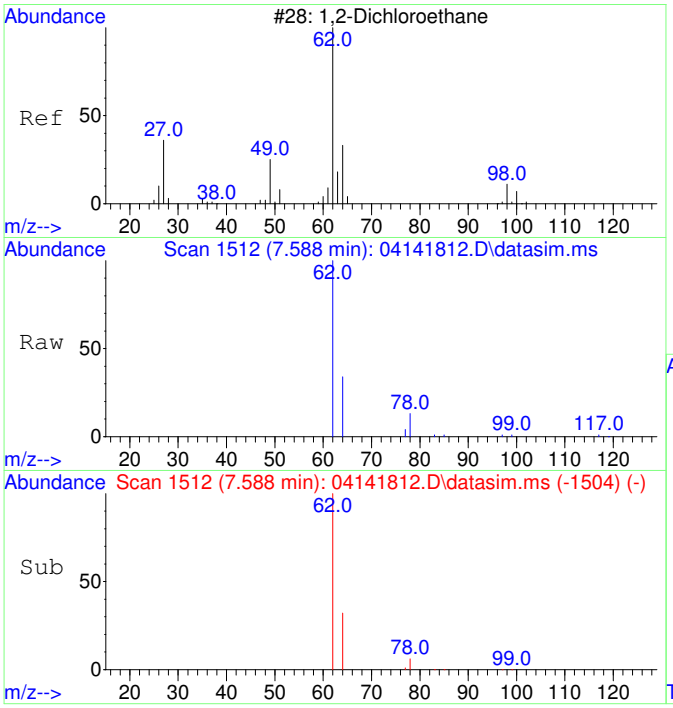


#9
Benzene
Concen: 4657.30 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 78 Resp: 115507

Ion	Ratio	Lower	Upper
78	100		
77	23.4	0.0	53.6

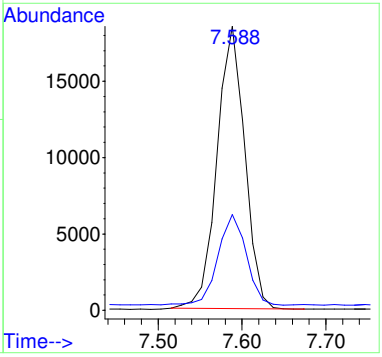


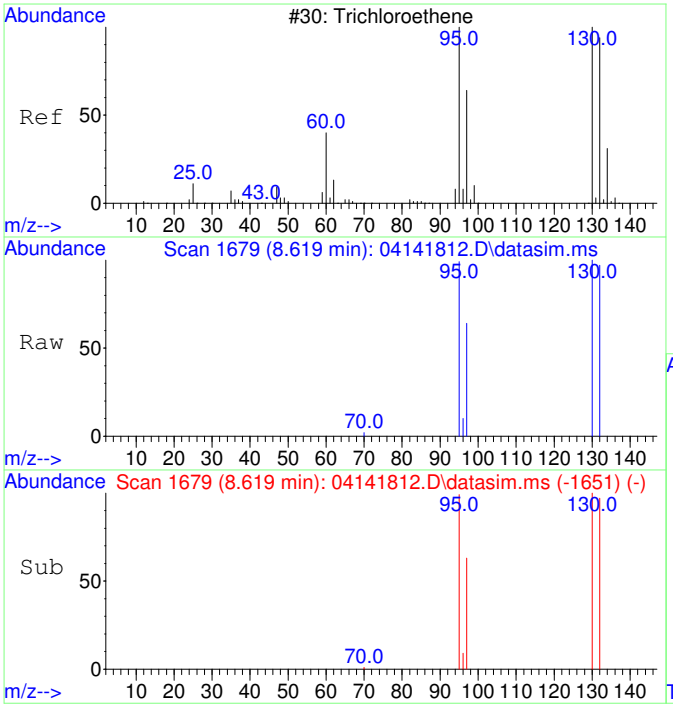


#10
1,2-Dichloroethane
Concen: 4886.78 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 62 Resp: 42259

Ion	Ratio	Lower	Upper
62	100		
64	32.4	1.8	61.8

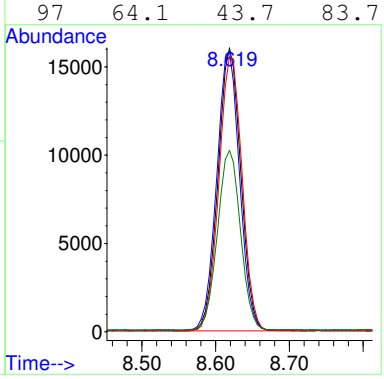


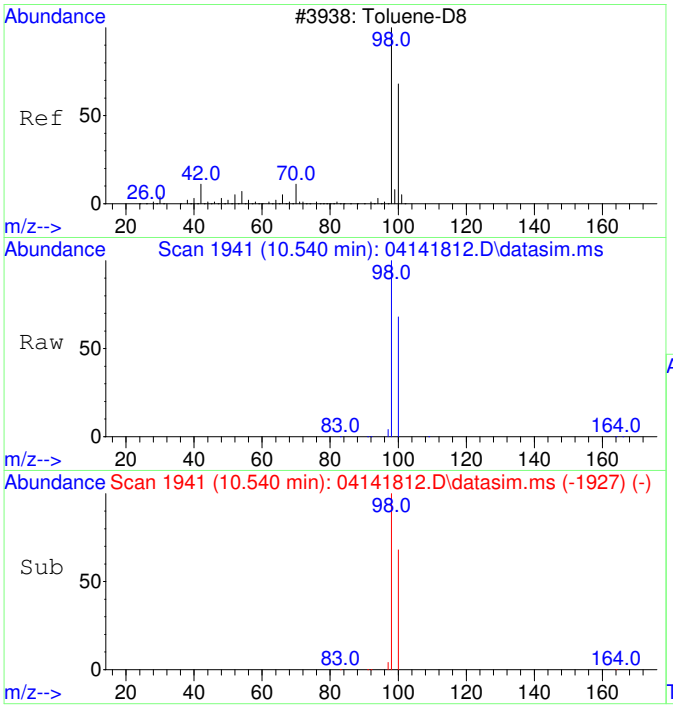


#11
Trichloroethene
Concen: 5023.80 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:130 Resp: 34330

Ion	Ratio	Lower	Upper
130	100		
95	98.9	68.8	128.8
132	98.7	78.6	118.6
97	64.1	43.7	83.7

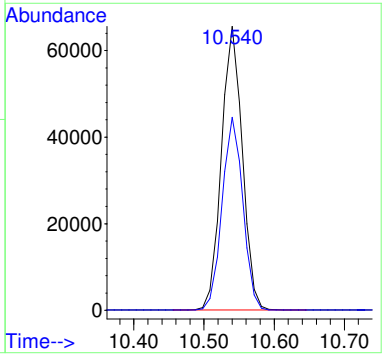


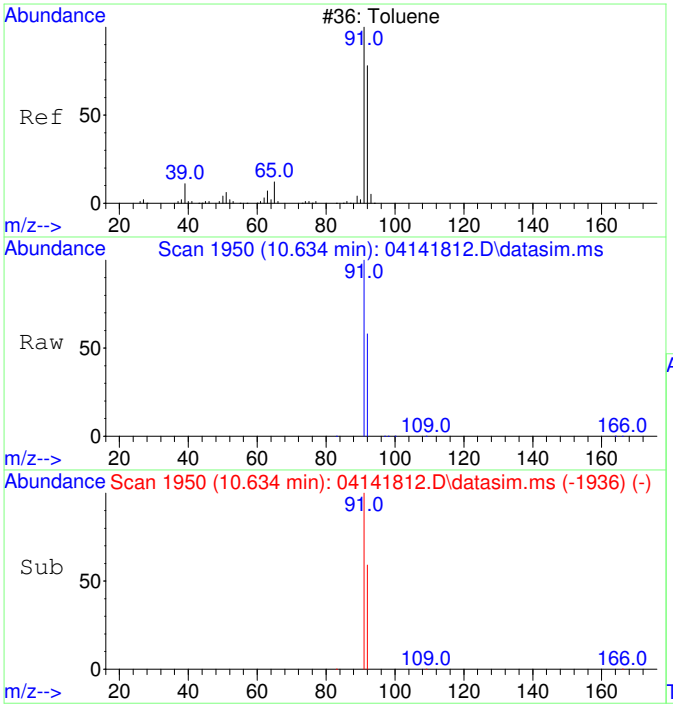


#12
Toluene-d8
Concen: 5195.82 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 98 Resp: 135027

Ion	Ratio	Lower	Upper
98	100		
100	67.4	36.9	96.9

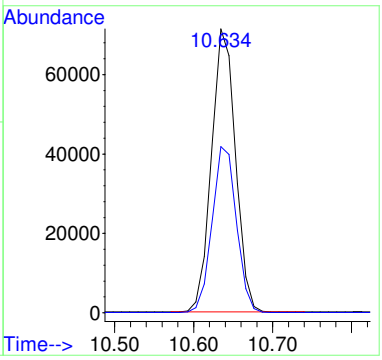


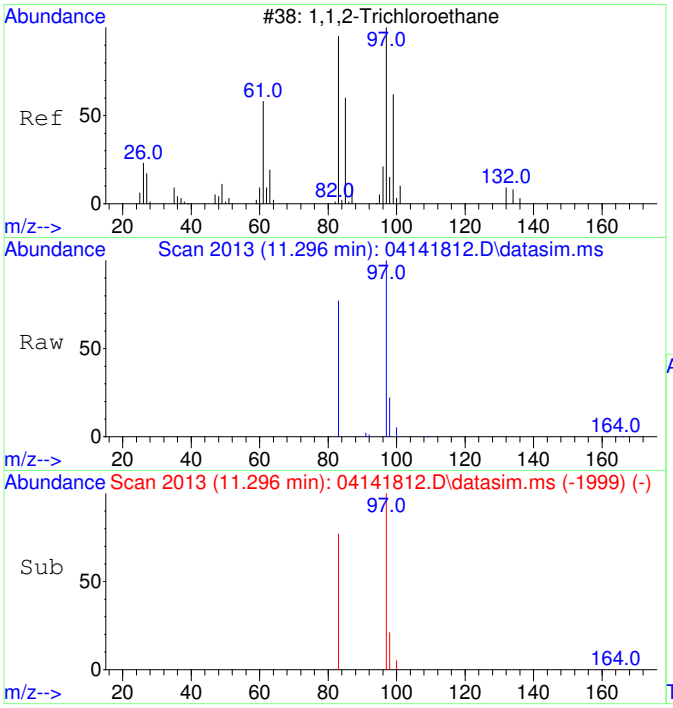


#13
Toluene
Concen: 4588.28 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 150078

Ion	Ratio	Lower	Upper
91	100		
92	59.3	28.8	88.8

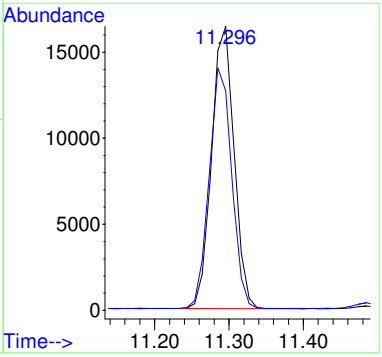


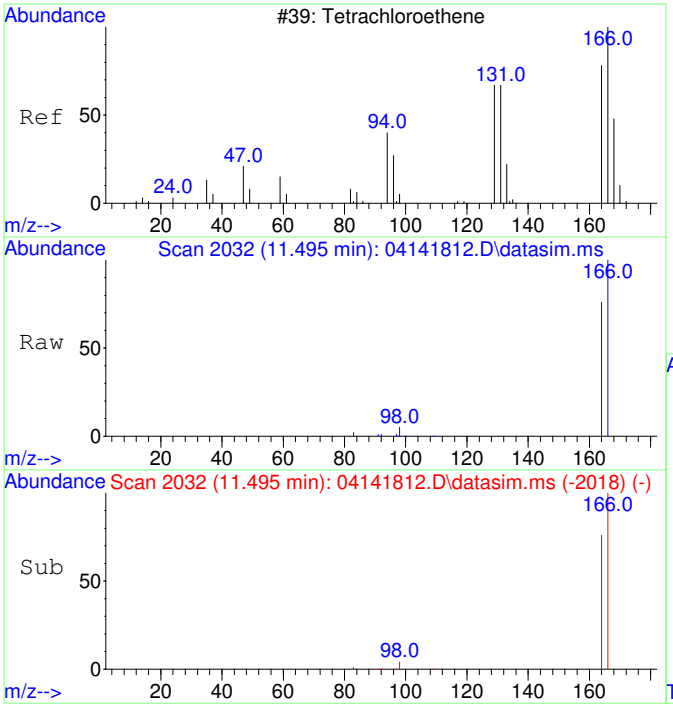


#14
1,1,2-Trichloroethane
Concen: 4763.11 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 97 Resp: 34422

Ion	Ratio	Lower	Upper
97	100		
83	85.5	54.3	114.3

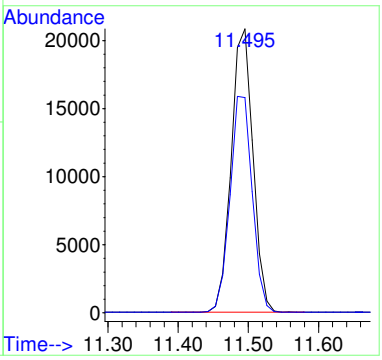


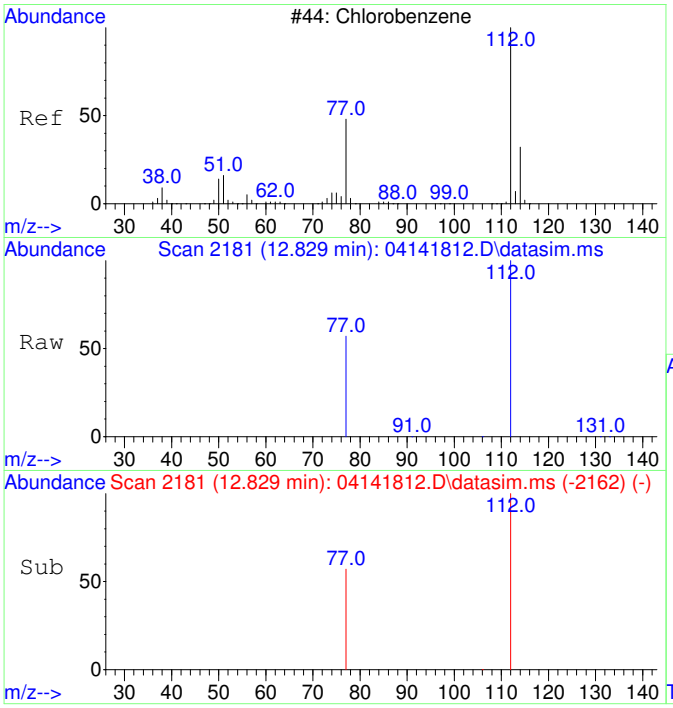


#15
Tetrachloroethene
Concen: 5003.11 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:166 Resp: 44854

Ion	Ratio	Lower	Upper
166	100		
164	78.1	48.0	108.0

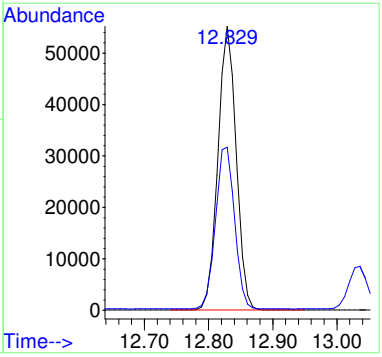


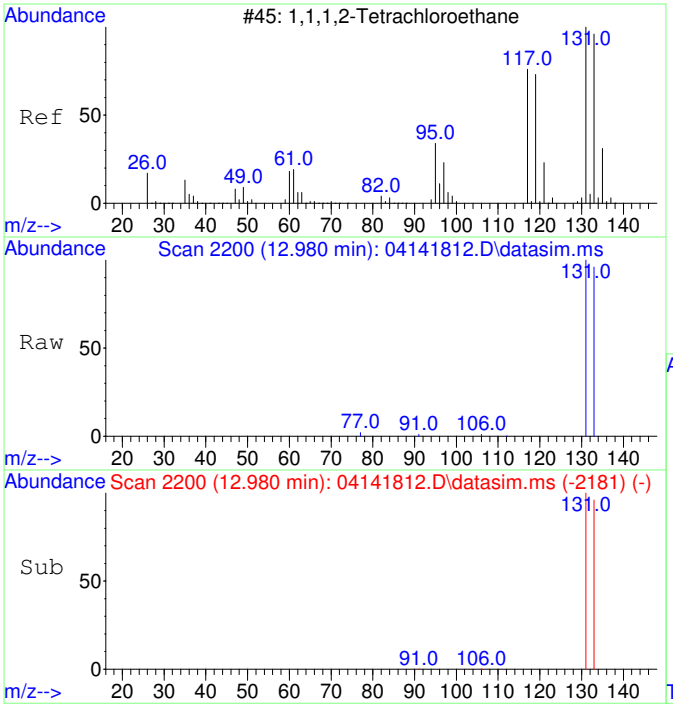


#16
Chlorobenzene
Concen: 4702.29 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:112 Resp: 108381

Ion	Ratio	Lower	Upper
112	100		
77	59.3	29.4	89.4

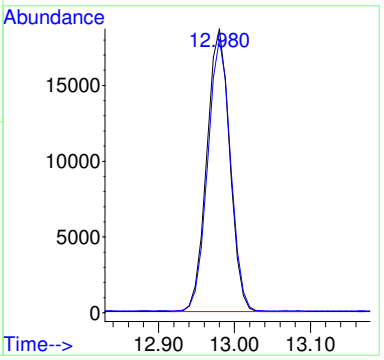


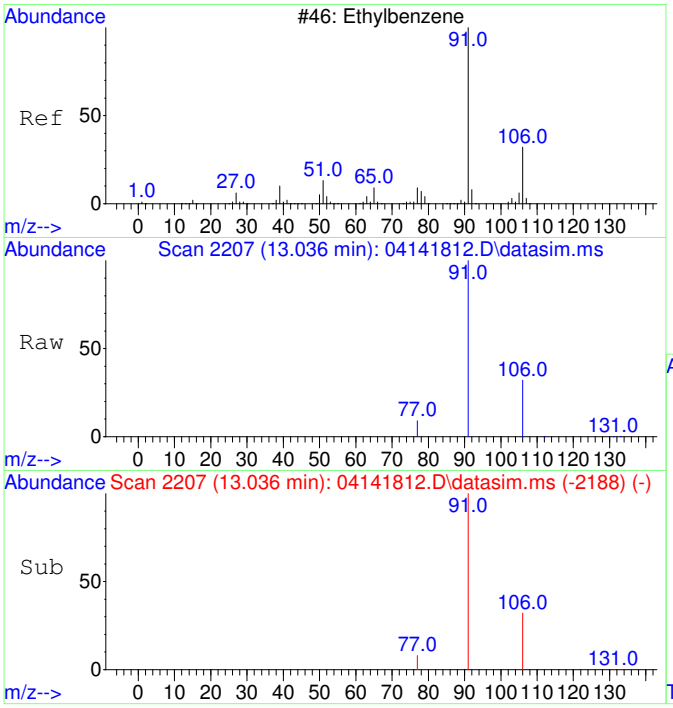


#17
1,1,1,2-Tetrachloroethane
Concen: 5098.83 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:131 Resp: 39123

Ion	Ratio	Lower	Upper
131	100		
133	95.7	65.1	125.1

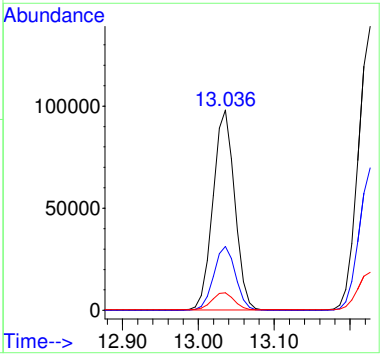


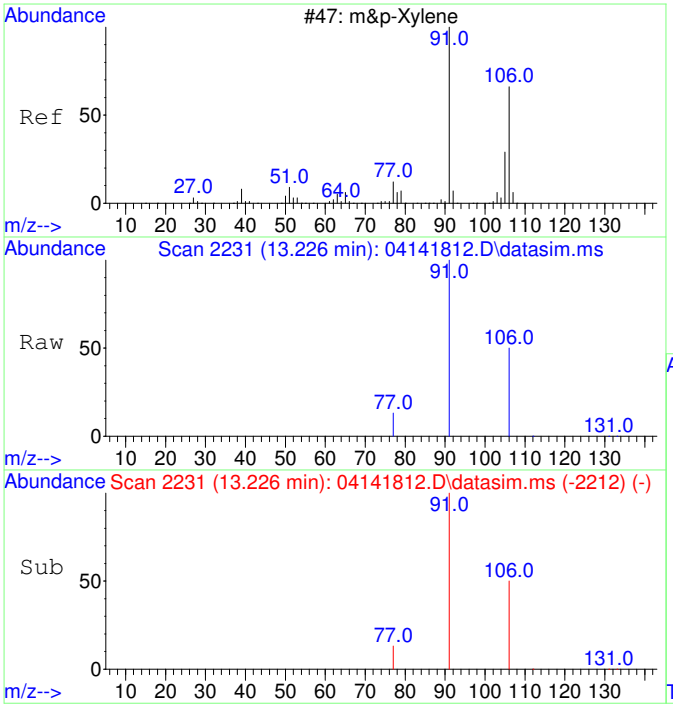


#18
Ethylbenzene
Concen: 5215.65 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 193662

Ion	Ratio	Lower	Upper
91	100		
106	32.1	1.8	61.8
77	8.7	0.0	38.7

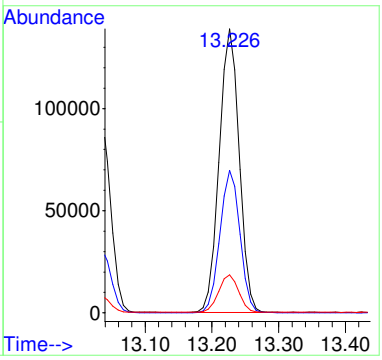


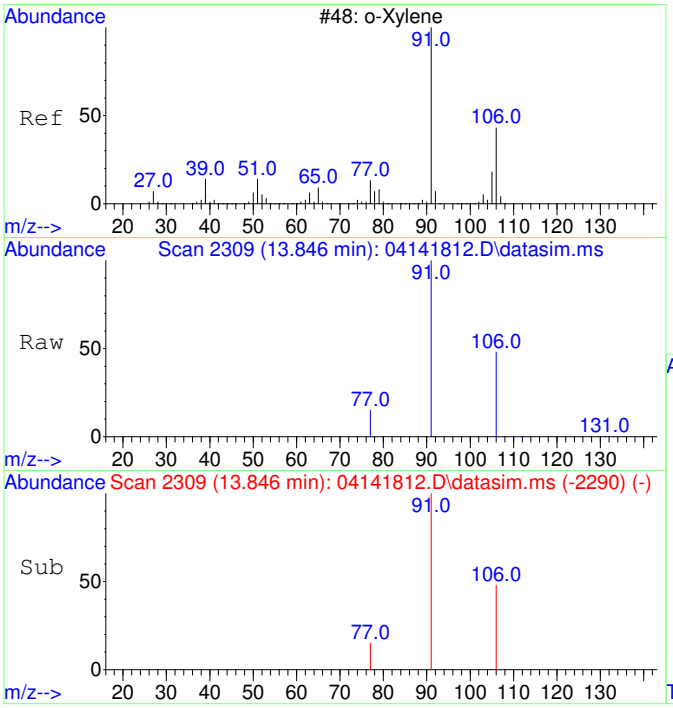


#19
m&p-Xylene
Concen: 9937.23 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 288718

Ion	Ratio	Lower	Upper
91	100		
106	50.1	20.0	80.0
77	13.2	0.0	43.4

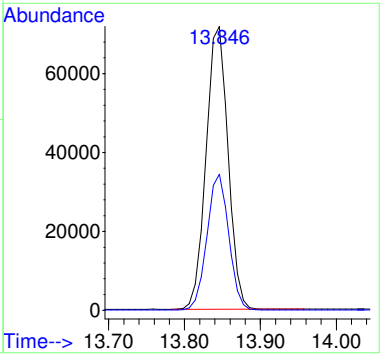


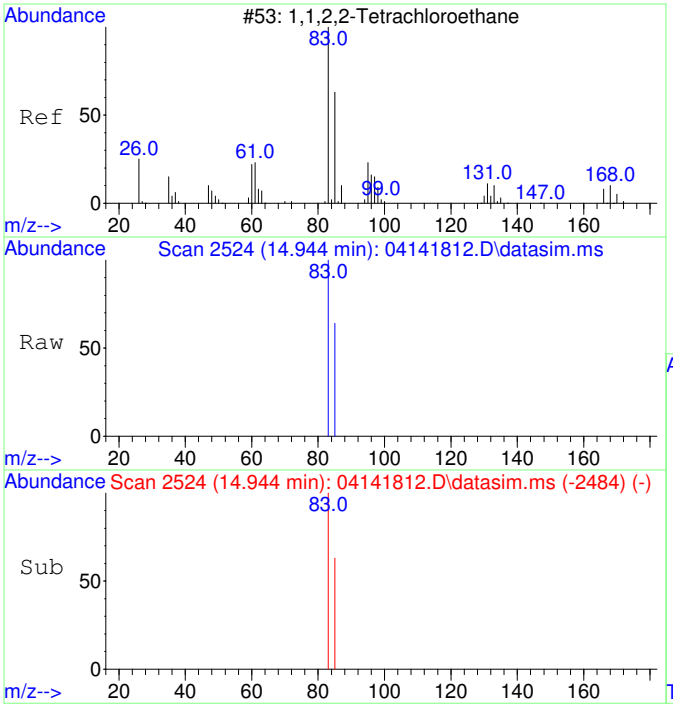


#20
o-Xylene
Concen: 4717.19 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 144419

Ion	Ratio	Lower	Upper
91	100		
106	47.4	16.9	76.9

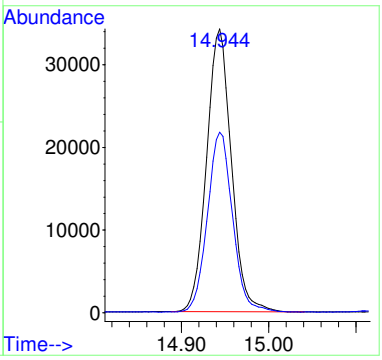


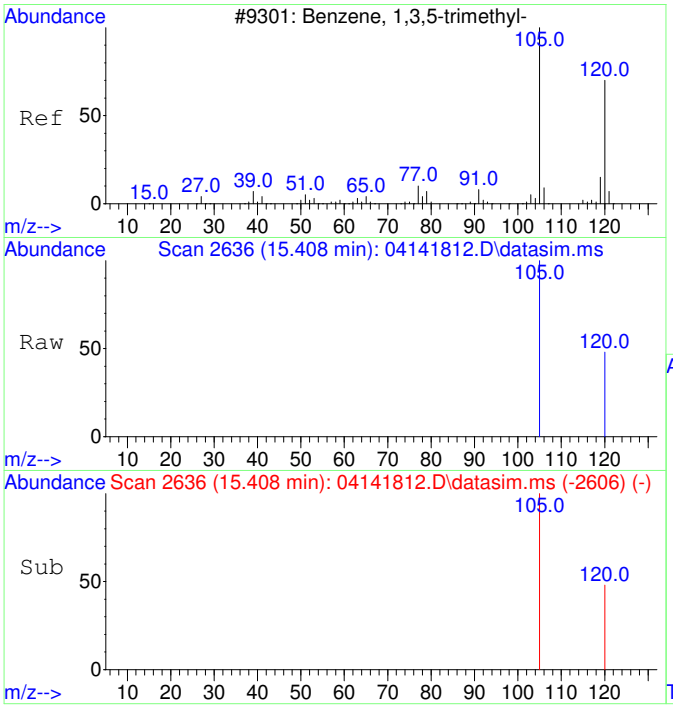


#21
1,1,2,2-Tetrachloroethane
Concen: 4752.08 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 83 Resp: 67527

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.3	94.3

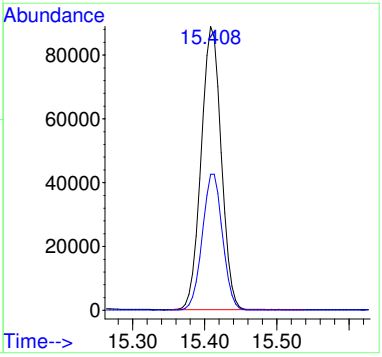


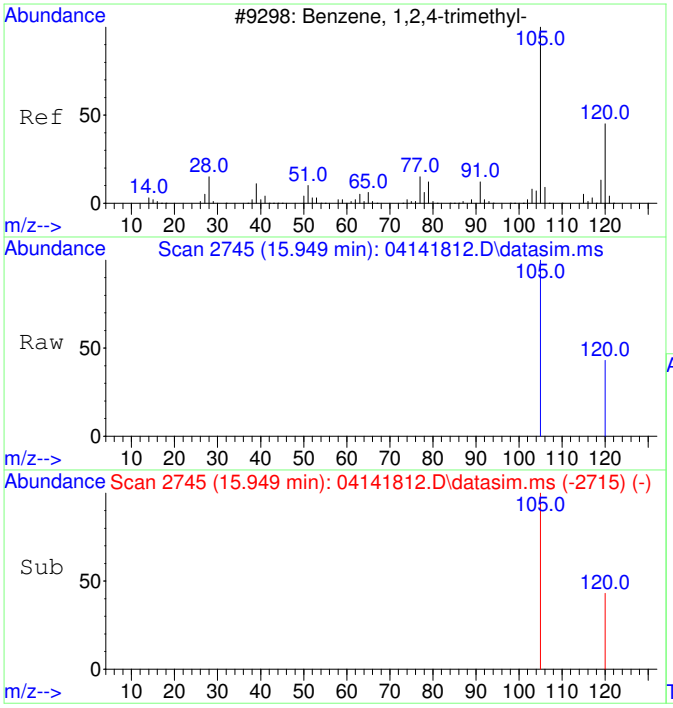


#22
1,3,5-Trimethylbenzene
Concen: 4788.57 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:105 Resp: 171589

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.1	78.1

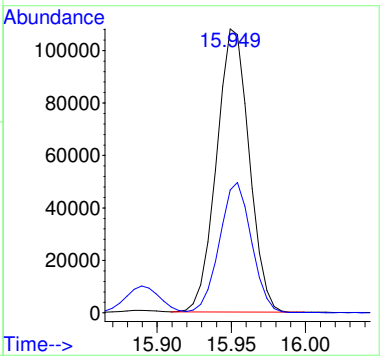


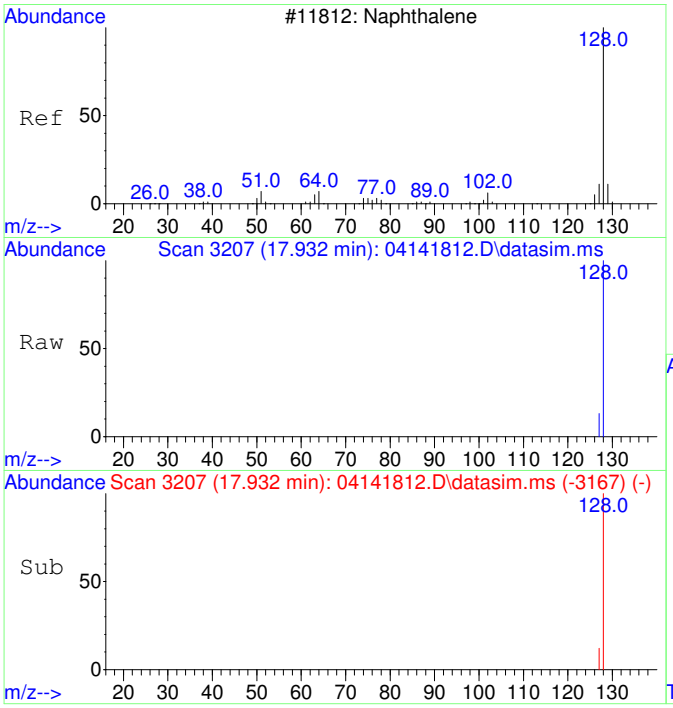


#23
1,2,4-Trimethylbenzene
Concen: 4533.88 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:105 Resp: 165260

Ion	Ratio	Lower	Upper
105	100		
120	44.4	14.5	74.5

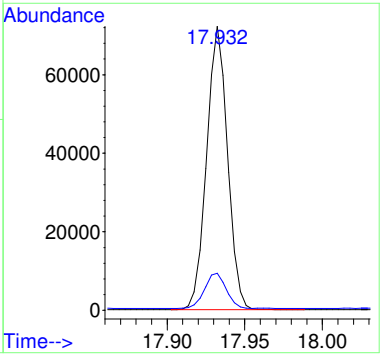


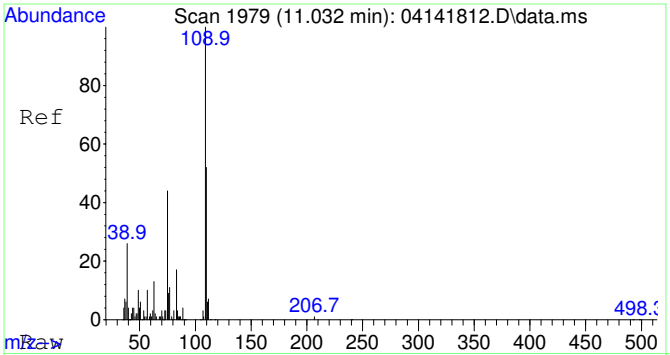


#24
Naphthalene
Concen: 1074.40 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:128 Resp: 67795

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.7

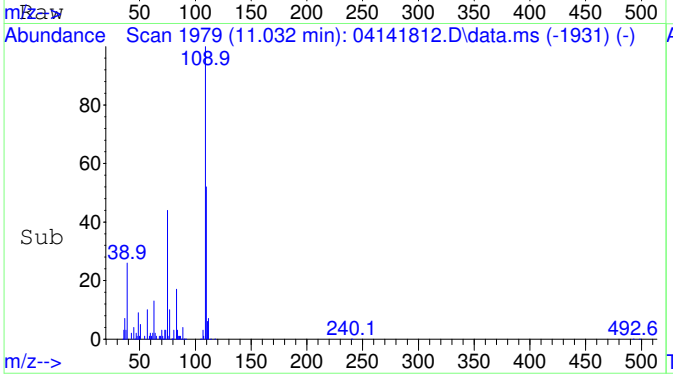


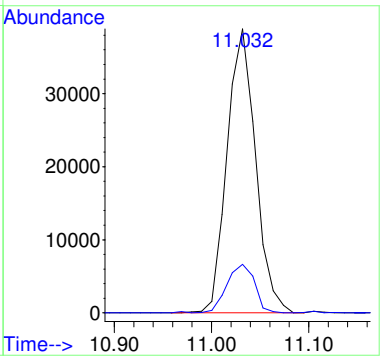


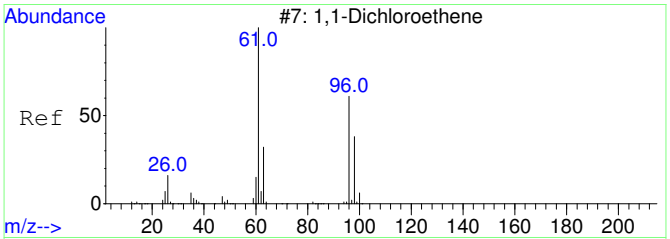
#25
2-Fluorotoluene SCAN
Concen: 5271.47 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:109 Resp: 78864

Ion	Ratio	Lower	Upper
109	100		
83	16.6	0.0	49.2



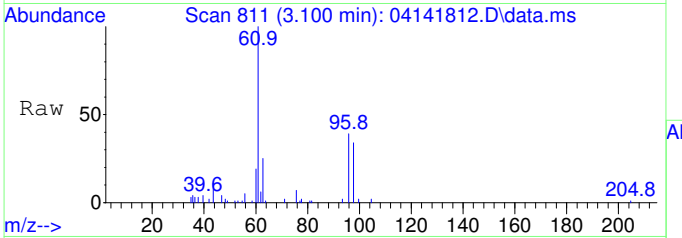


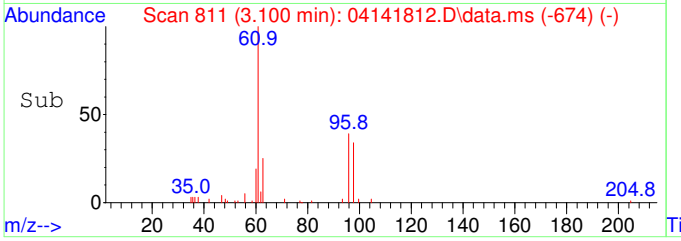


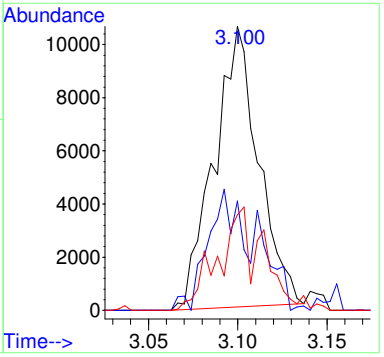
#26
1,1-Dichloroethene SCAN
Concen: 5522.19 ug/L
RT: 3.100 min Scan# 811
Delta R.T. 0.007 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

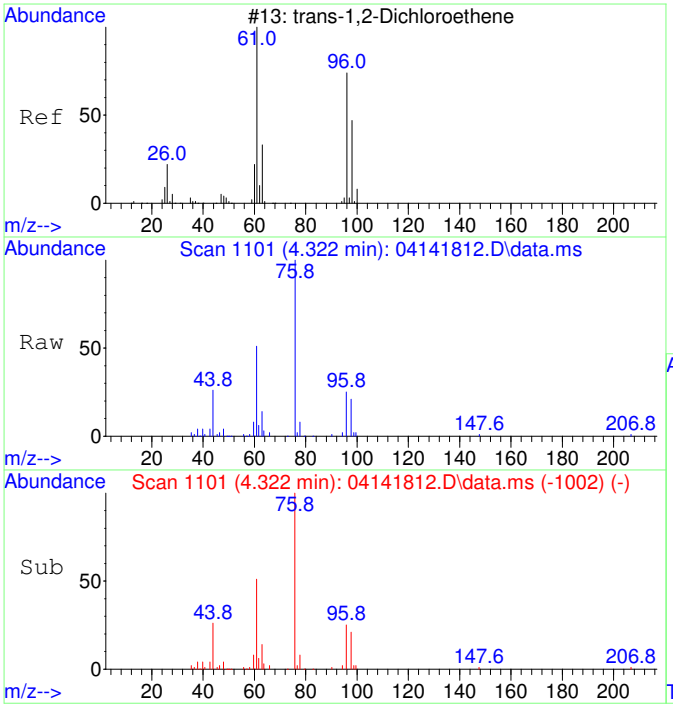
Tgt Ion: 61 Resp: 18310

Ion	Ratio	Lower	Upper
61	100		
96	21.7	21.6	81.6
98	8.5	7.5	67.5





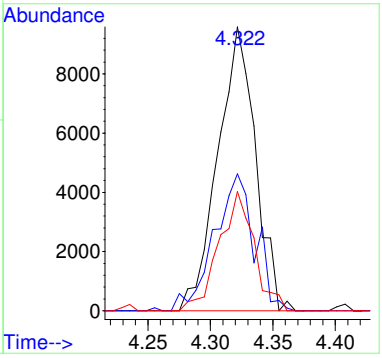


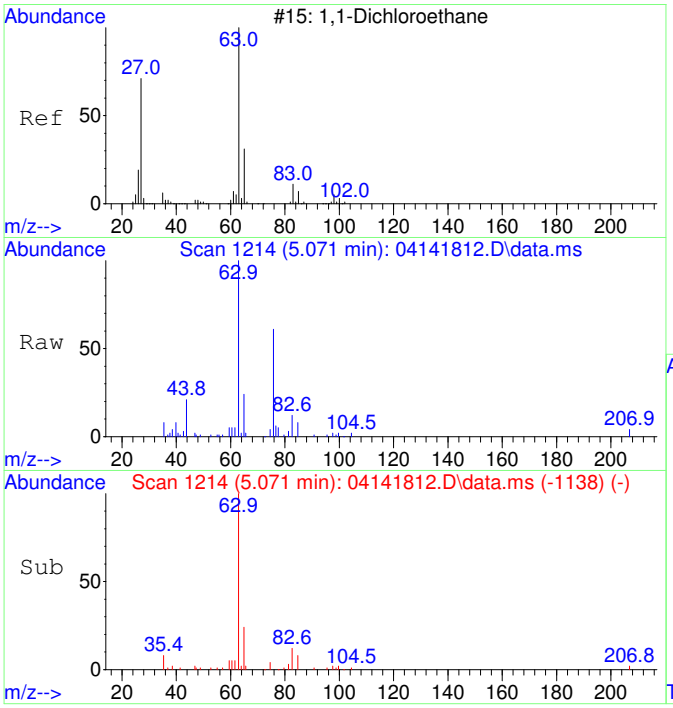


#27
trans-1,2-Dichloroethene SCAN
Concen: 6172.13 ug/L
RT: 4.322 min Scan# 1101
Delta R.T. 0.013 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 20052

Ion	Ratio	Lower	Upper
61	100		
96	51.9	51.8	111.8
98	39.1	22.7	82.7

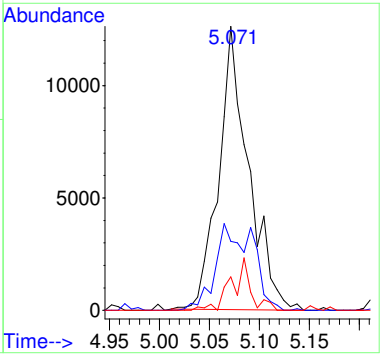


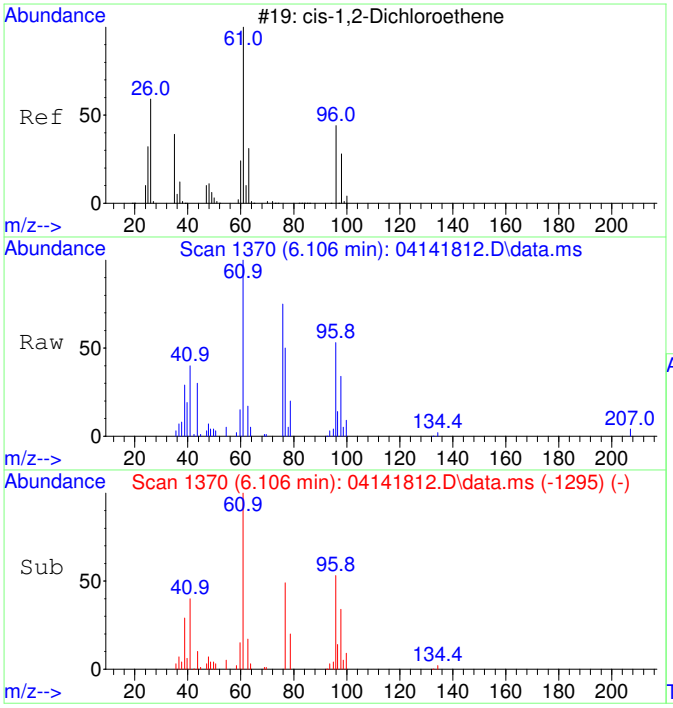


#28
1,1-Dichloroethane SCAN
Concen: 5278.77 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 63 Resp: 26241

Ion	Ratio	Lower	Upper
63	100		
65	37.9	2.2	62.2
83	11.8	0.0	38.2

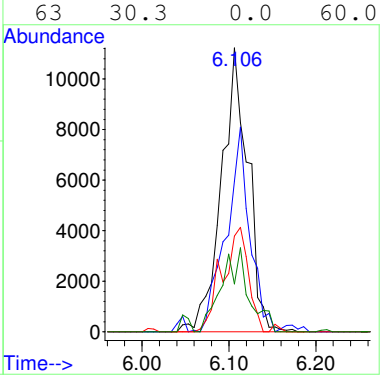


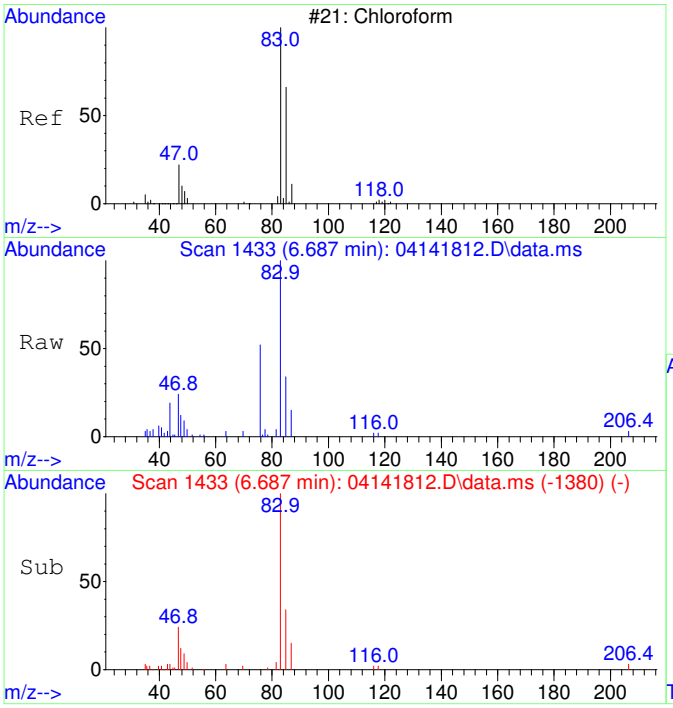


#29
cis-1,2-Dichloroethene SCAN
Concen: 6103.35 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 61 Resp: 23816

Ion	Ratio	Lower	Upper
61	100		
96	62.5	49.4	109.4
98	36.0	9.5	69.5
63	30.3	0.0	60.0

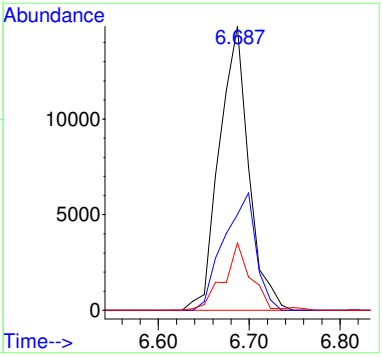


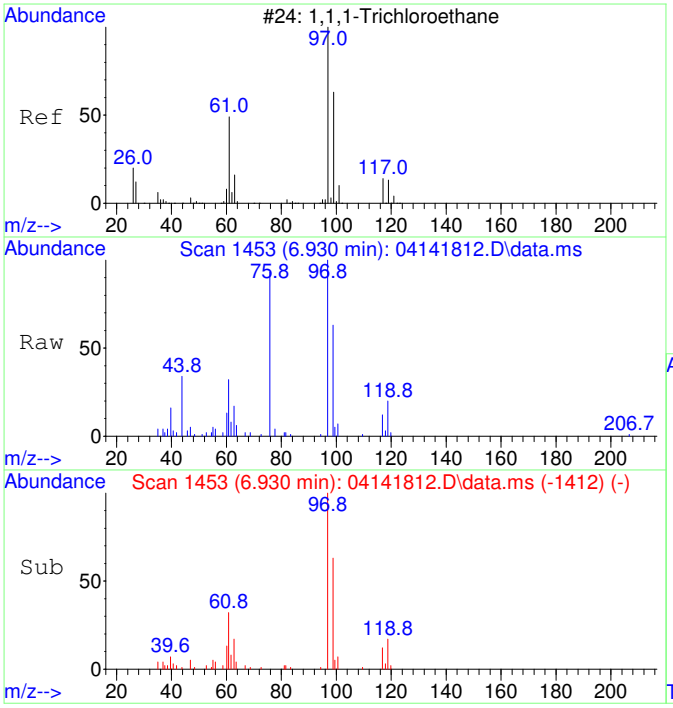


#30
Chloroform SCAN
Concen: 7102.23 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 83 Resp: 33438

Ion	Ratio	Lower	Upper
83	100		
85	45.6	47.8	107.8#
47	22.5	8.2	68.2

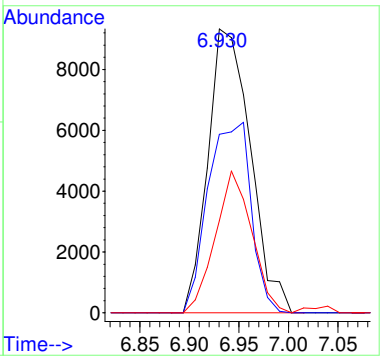


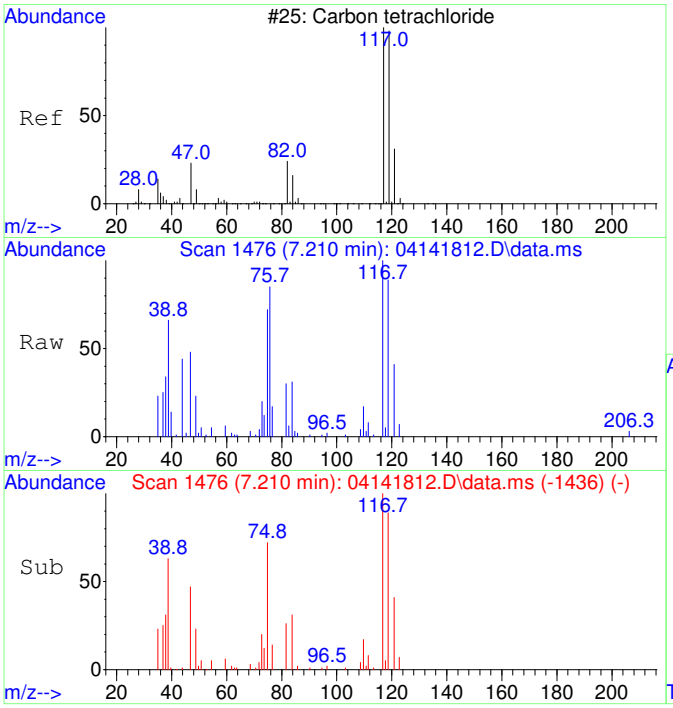


#31
1,1,1-Trichloroethane SCAN
Concen: 4724.31 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 97 Resp: 27912

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	42.9	16.3	76.3

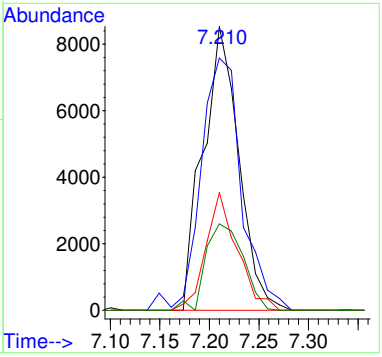


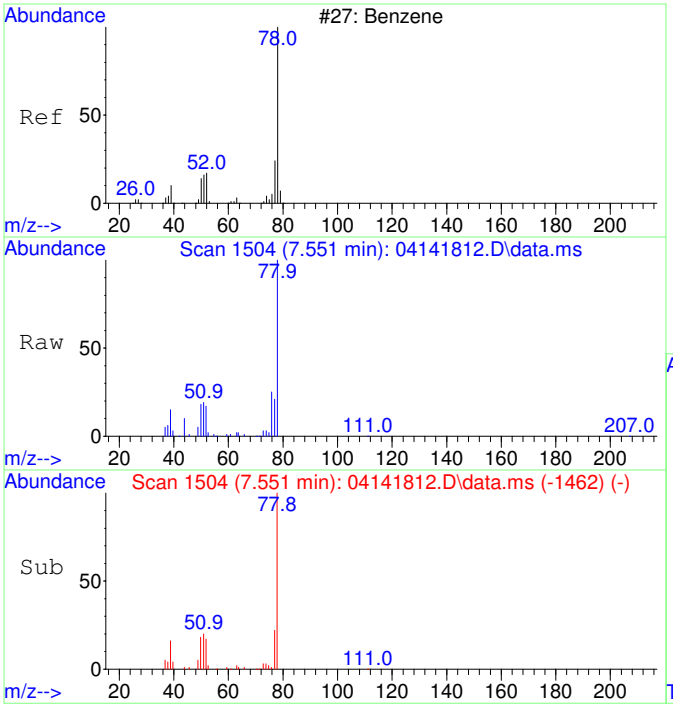


#32
Carbon tetrachloride SCAN
Concen: 5071.46 ug/L
RT: 7.210 min Scan# 1476
Delta R.T. -0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:117 Resp: 21551

Ion	Ratio	Lower	Upper
117	100		
119	100.8	54.4	114.4
121	36.3	0.0	53.0
82	31.9	7.9	67.9

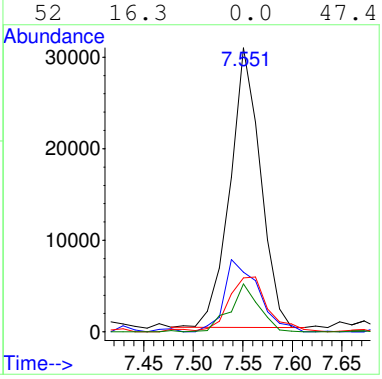


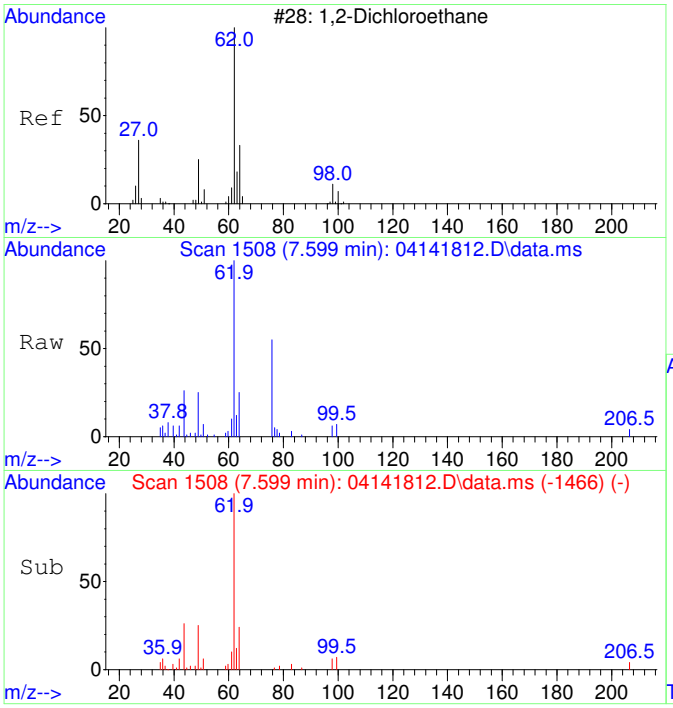


#33
Benzene SCAN
Concen: 5062.41 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 78 Resp: 65210

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	25.9	0.0	47.2
52	16.3	0.0	47.4

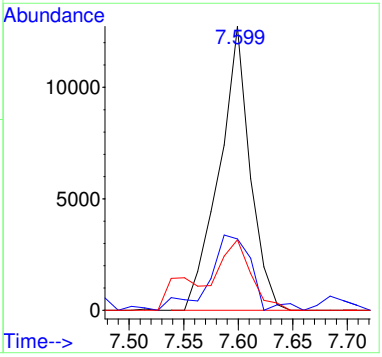


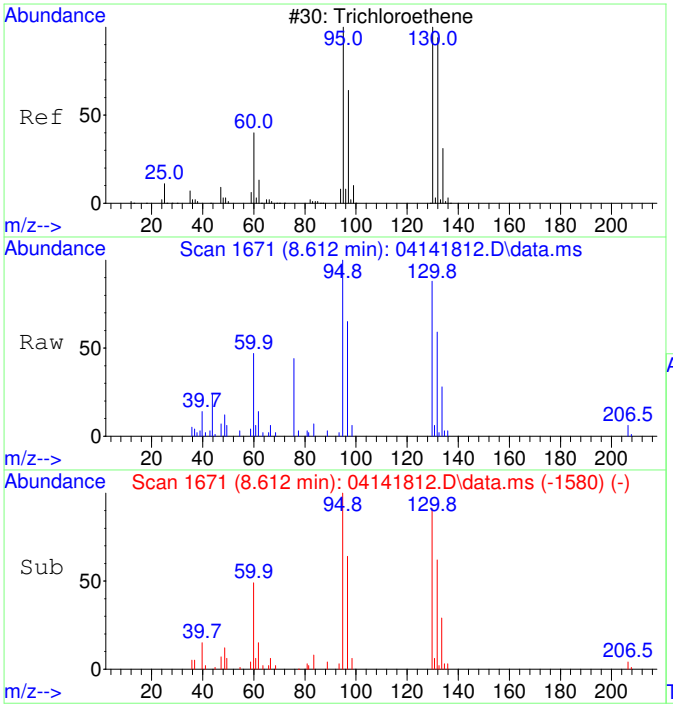


#34
1,2-Dichloroethane SCAN
Concen: 5143.63 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 62 Resp: 25123

Ion	Ratio	Lower	Upper
62	100		
64	32.8	4.4	64.4
49	15.5	1.2	61.2

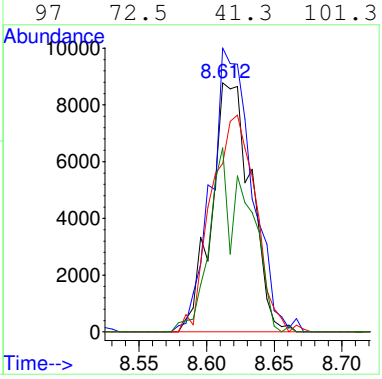


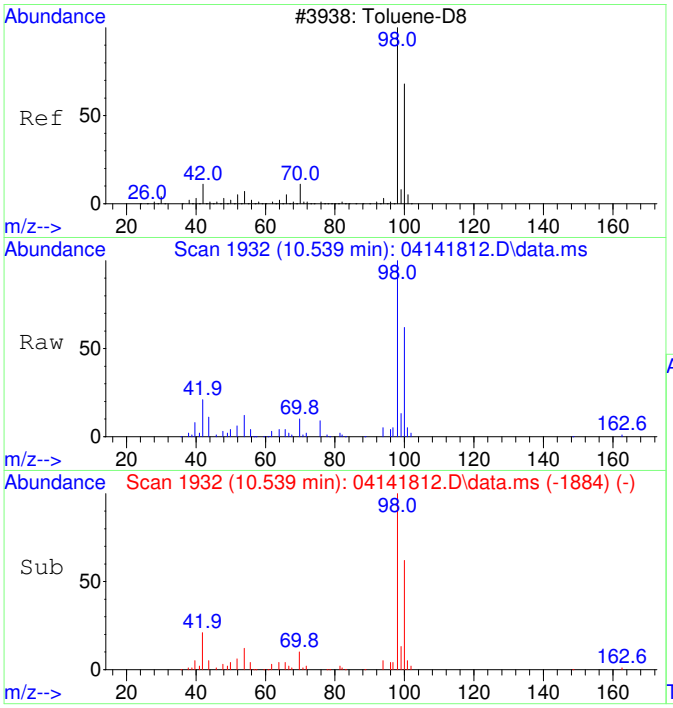


#35
Trichloroethene SCAN
Concen: 5532.76 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:130 Resp: 17906

Ion	Ratio	Lower	Upper
130	100		
95	117.3	71.3	131.3
132	97.1	75.1	135.1
97	72.5	41.3	101.3

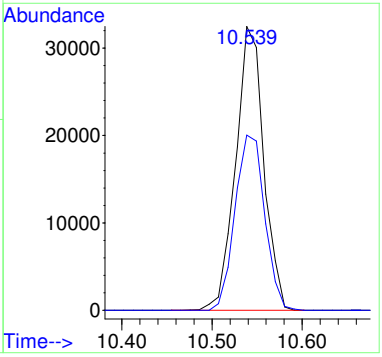


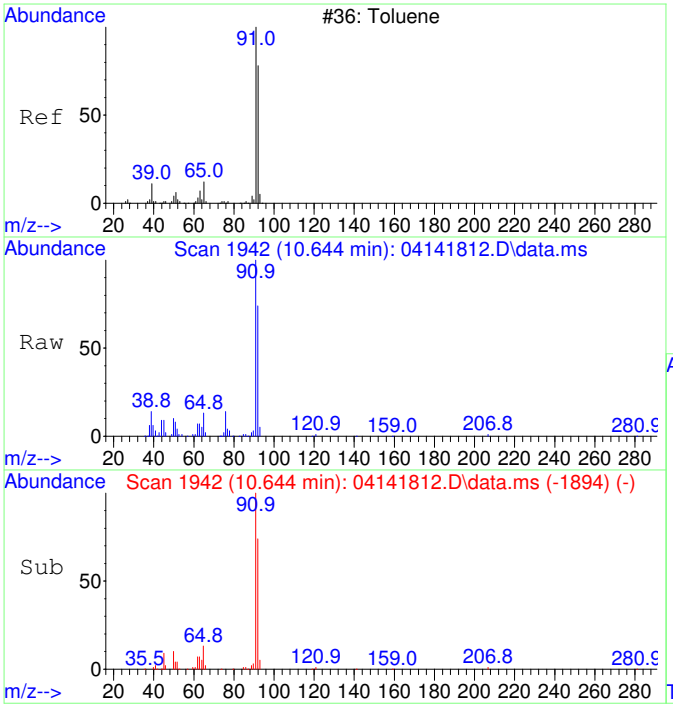


#36
Toluene-d8 SCAN
Concen: 5354.69 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 98 Resp: 70336

Ion	Ratio	Lower	Upper
98	100		
100	65.3	37.3	97.3

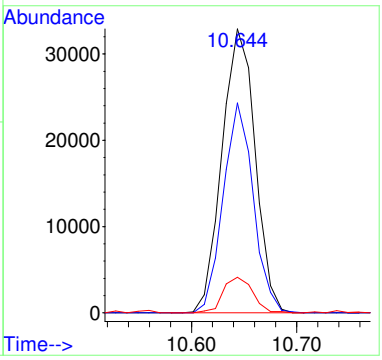


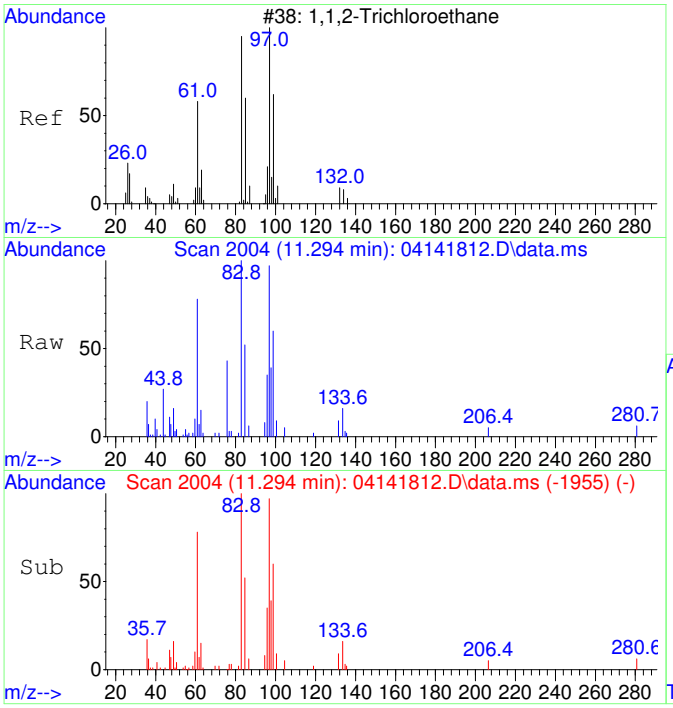


#37
Toluene SCAN
Concen: 4918.20 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 72251

Ion	Ratio	Lower	Upper
91	100		
92	66.9	39.1	99.1
65	11.2	0.0	43.8

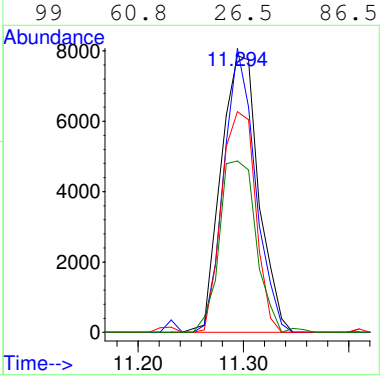


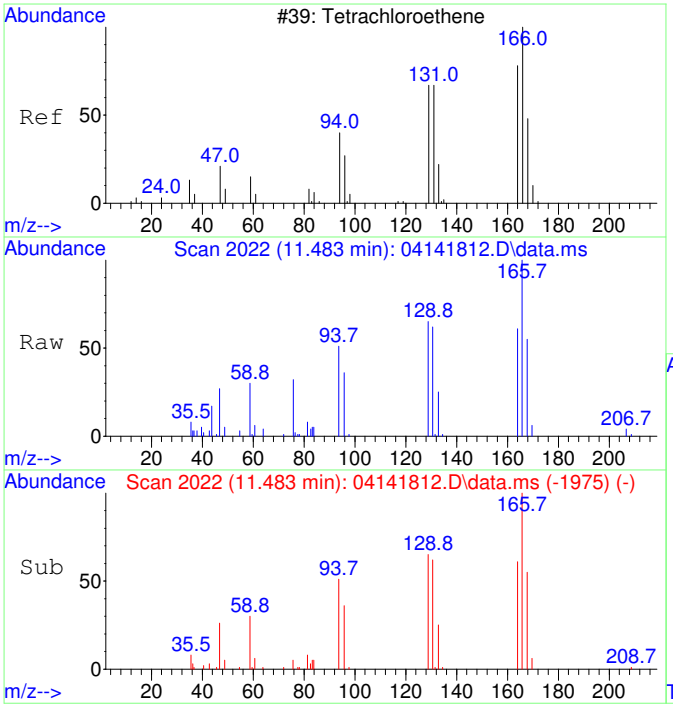


#38
1,1,2-Trichloroethane SCAN
Concen: 4361.01 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.011 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 97 Resp: 19620

Ion	Ratio	Lower	Upper
97	100		
83	85.6	47.4	107.4
61	71.5	29.7	89.7
99	60.8	26.5	86.5

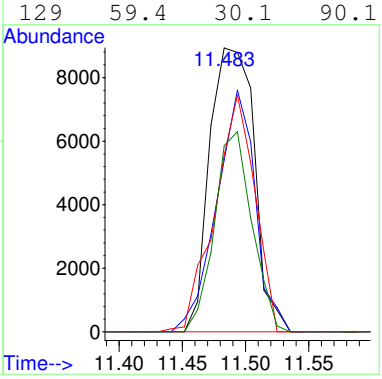


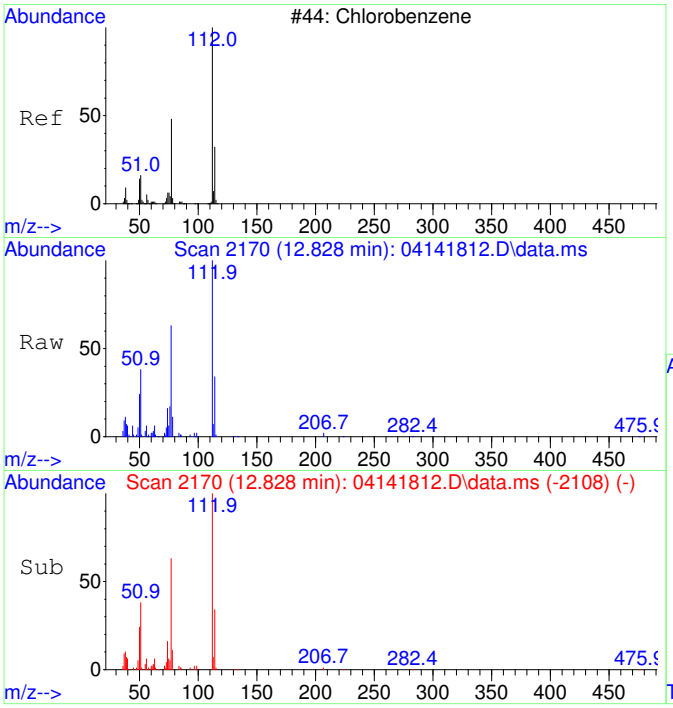


#39
Tetrachloroethene SCAN
Concen: 4581.26 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. -0.010 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:166 Resp: 21948

Ion	Ratio	Lower	Upper
166	100		
164	73.8	49.8	109.8
131	74.9	42.0	102.0
129	59.4	30.1	90.1

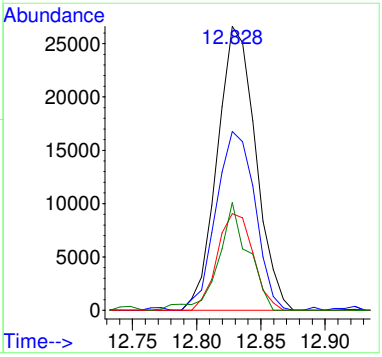


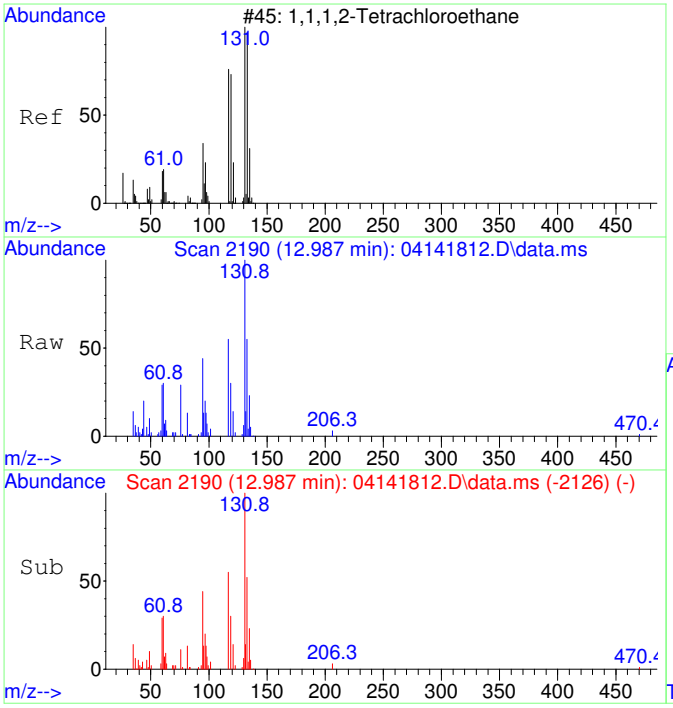


#40
Chlorobenzene SCAN
Concen: 4783.70 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.008 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:112 Resp: 55226

Ion	Ratio	Lower	Upper
112	100		
77	63.9	39.7	99.7
114	31.9	1.2	61.2
51	29.6	0.0	57.1

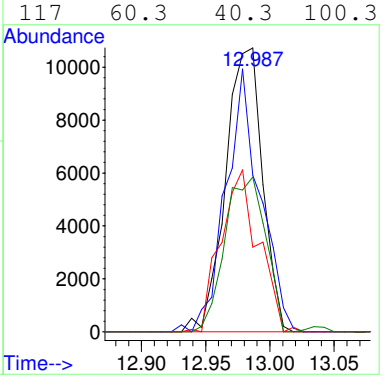


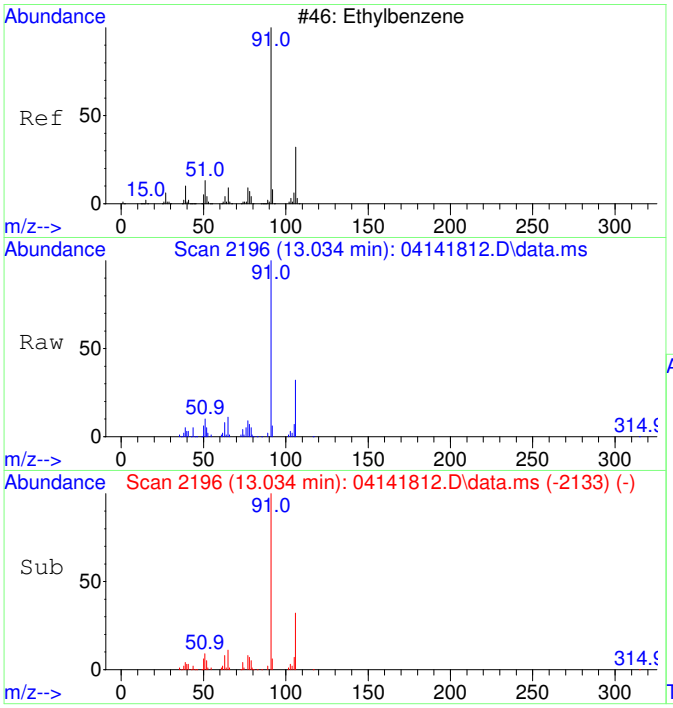


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 5713.58 ug/L
RT: 12.987 min Scan# 2190
Delta R.T. 0.008 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:131 Resp: 21444

Ion	Ratio	Lower	Upper
131	100		
133	86.0	78.7	138.7
119	58.1	43.0	103.0
117	60.3	40.3	100.3

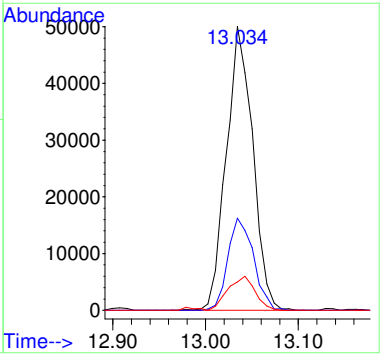


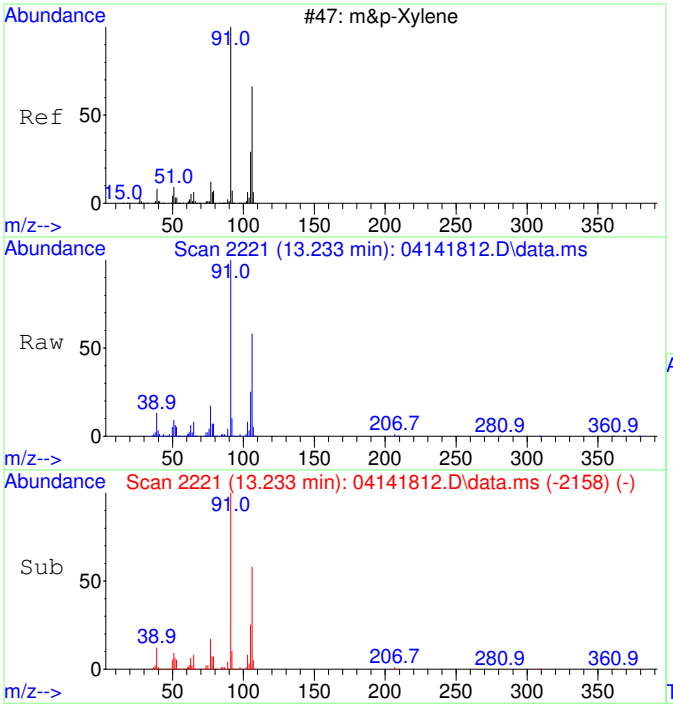


#42
Ethylbenzene SCAN
Concen: 5162.07 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 99403

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.8	61.8
51	12.3	0.0	45.4

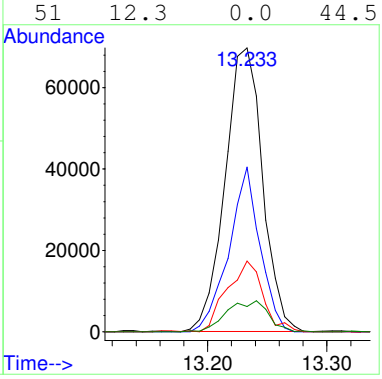


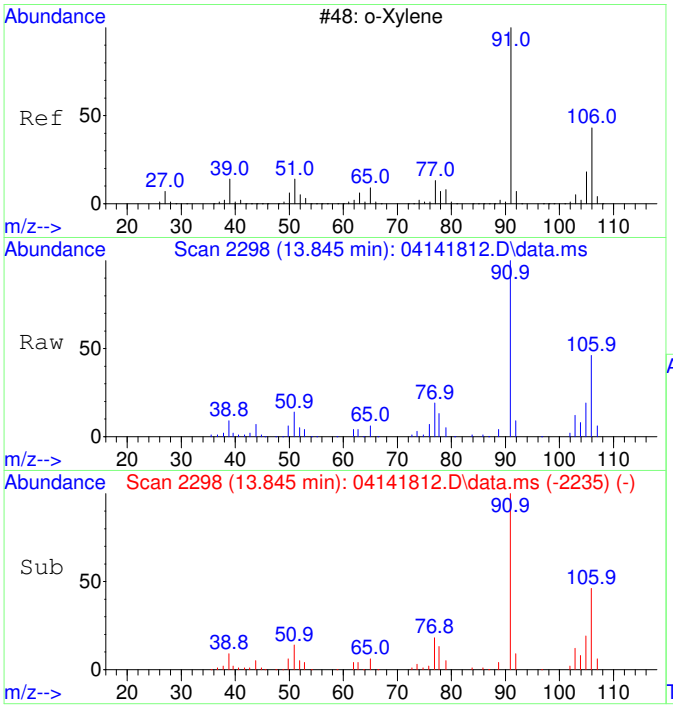


#43
m&p-Xylene SCAN
Concen: 4867.24 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 152528

Ion	Ratio	Lower	Upper
91	100		
106	48.2	14.6	74.6
105	23.8	0.0	52.8
51	12.3	0.0	44.5

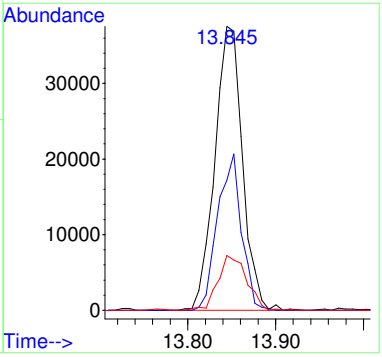


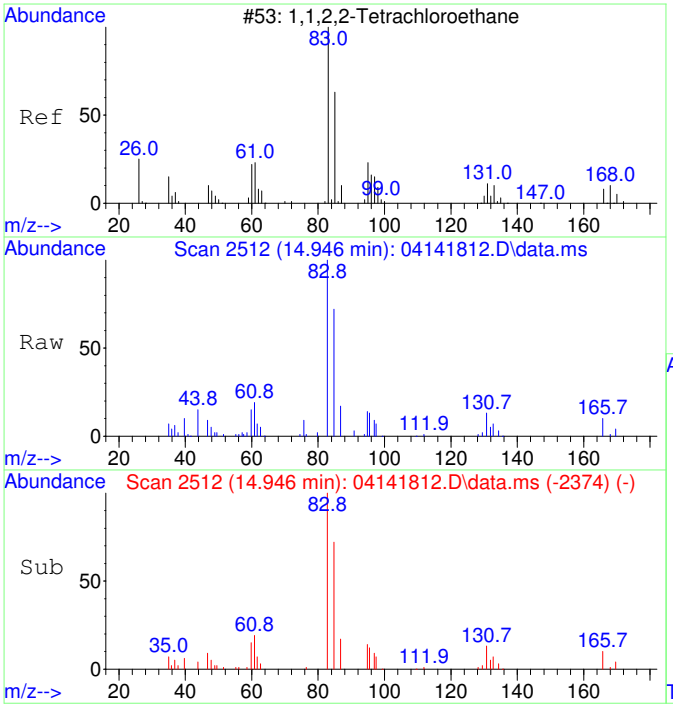


#44
o-Xylene SCAN
Concen: 4838.25 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 91 Resp: 82100

Ion	Ratio	Lower	Upper
91	100		
106	47.5	20.2	80.2
105	20.2	0.0	54.9

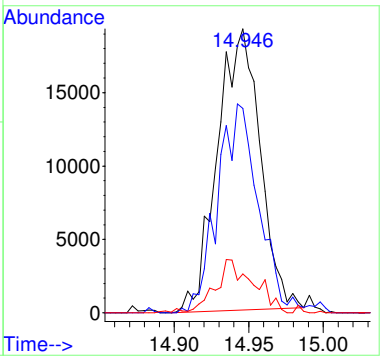


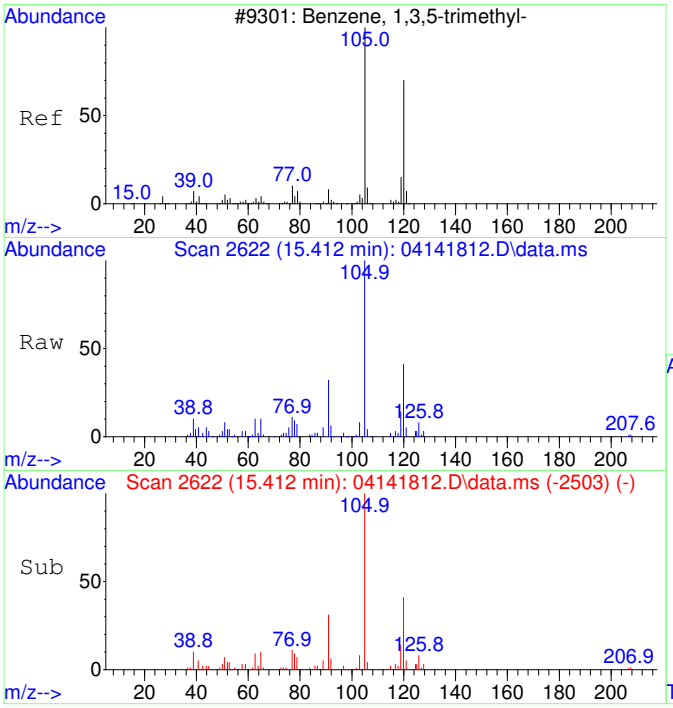


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 4312.81 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 83 Resp: 38306

Ion	Ratio	Lower	Upper
83	100		
85	68.7	32.4	92.4
95	16.0	0.0	41.2

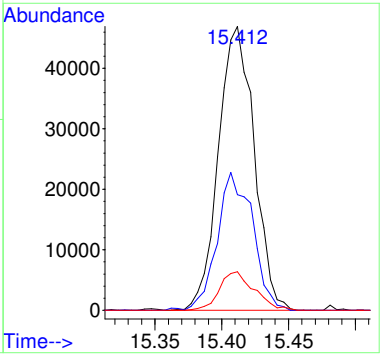


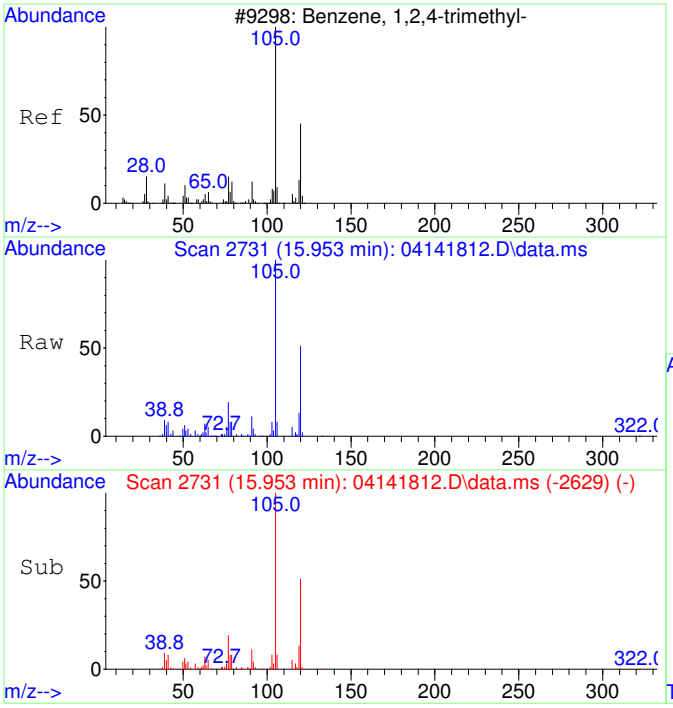


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4478.80 ug/L
RT: 15.412 min Scan# 2622
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:105 Resp: 87354

Ion	Ratio	Lower	Upper
105	100		
120	48.3	16.1	76.1
119	13.3	0.0	41.8

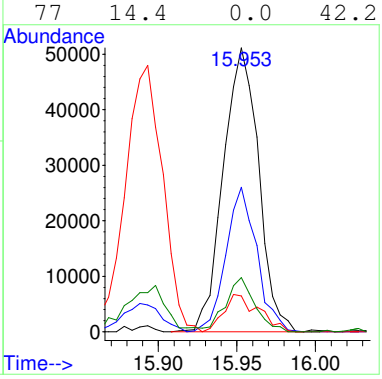


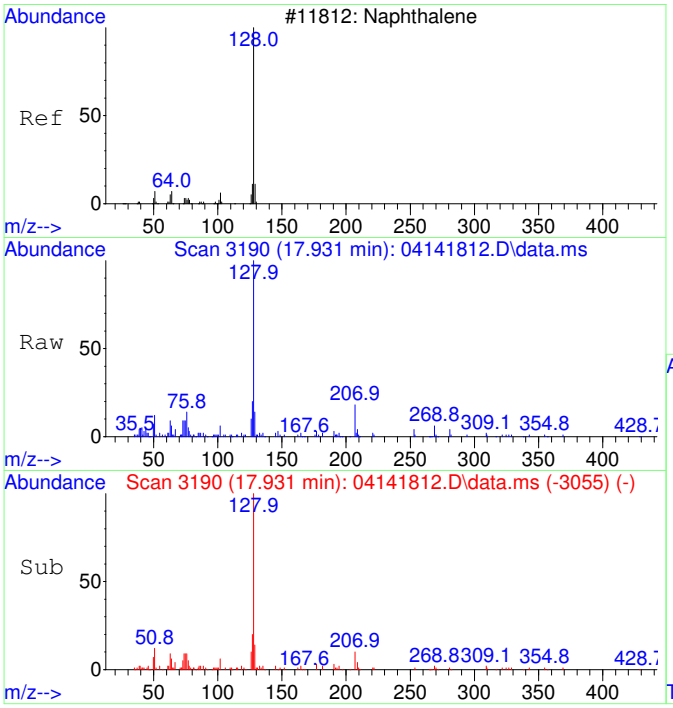


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4057.24 ug/L
RT: 15.953 min Scan# 2731
Delta R.T. 0.005 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:105 Resp: 79765

Ion	Ratio	Lower	Upper
105	100		
120	44.5	12.8	72.8
119	13.0	0.0	42.5
77	14.4	0.0	42.2

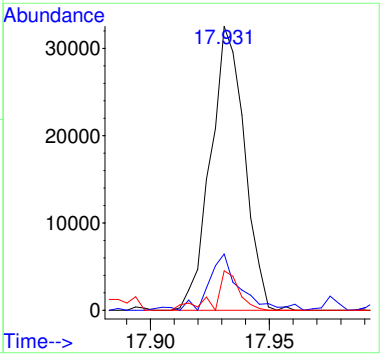


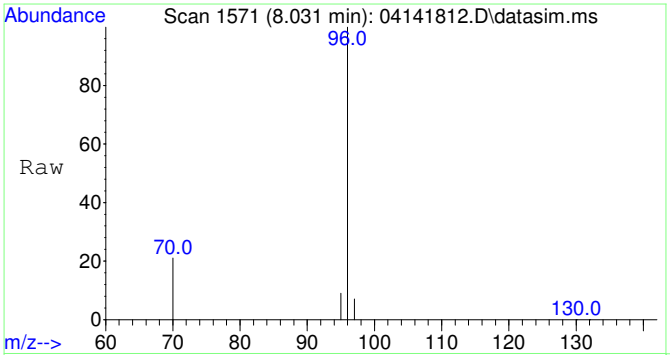


#48
Naphthalene SCAN
Concen: 1014.23 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion:128 Resp: 32127

Ion	Ratio	Lower	Upper
128	100		
127	18.3	0.0	45.2
129	7.6	0.0	42.0

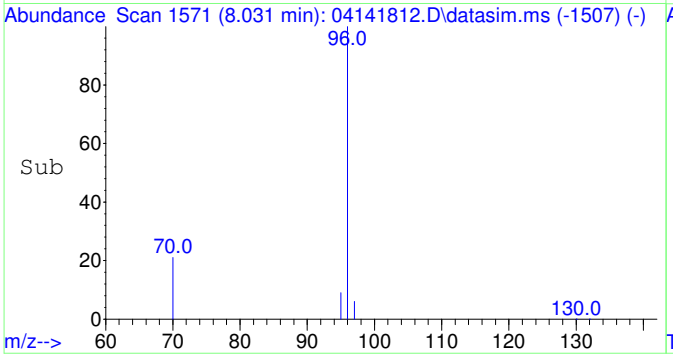


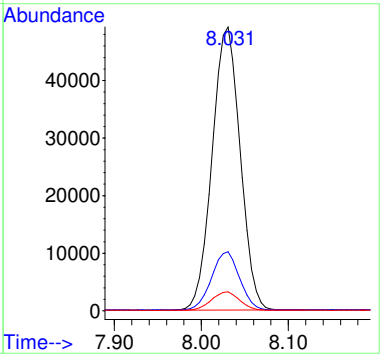


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.031 min Scan# 1571
Delta R.T. 0.005 min
Lab File: 04141812.D
Acq: 14 Apr 2018 15:13

Tgt Ion: 96 Resp: 110016

Ion	Ratio	Lower	Upper
96	100		
70	20.6	0.0	50.7
97	6.6	0.0	36.7





B18D036-MRL1

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141813.D
Acq On : 14 Apr 2018 15:36
InstName : AG5975C
Operator : RH
Sample : B18D036-MRL1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 16 09:38:21 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

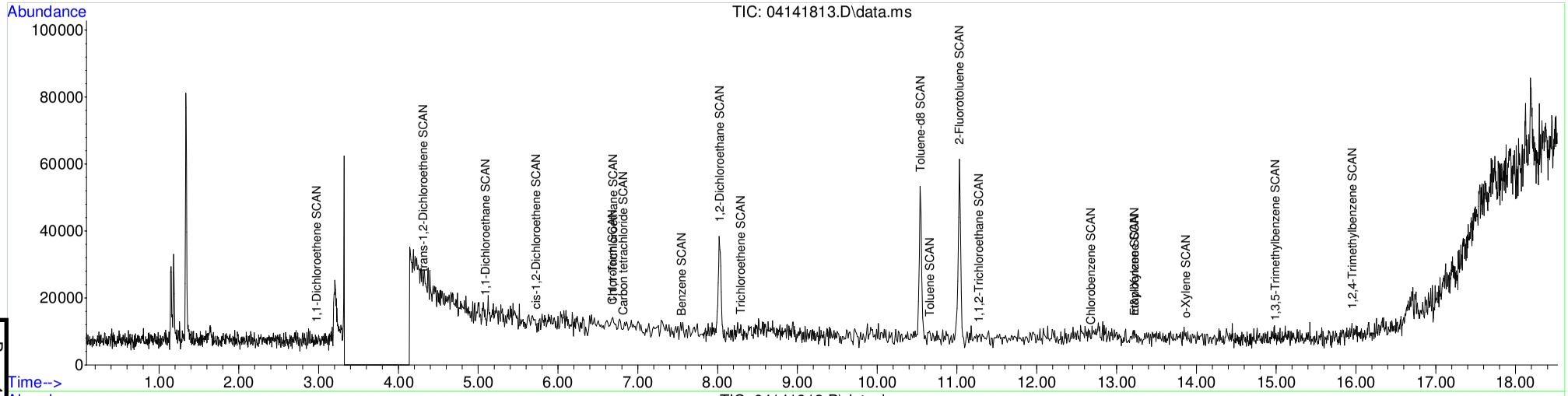
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	74798	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	52821	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	65310	5202.06 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.04%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	672	204.67 ug/L	95
3] trans-1,2-Dichloroethene	4.303	61	202	60.21 ug/L	85
4] 1,1-Dichloroethane	5.066	63	275	61.56 ug/L	98
5] cis-1,2-Dichloroethene	6.101	61	248	60.01 ug/L	70
6] Chloroform	6.676	83	308	63.37 ug/L	84
7] 1,1,1-Trichloroethane	6.931	97	331	69.75 ug/L	93
8] Carbon tetrachloride	7.211	117	278	64.21 ug/L	90
9] Benzene	7.540	78	1031	86.05 ug/L	96
10] 1,2-Dichloroethane	7.588	62	229	54.82 ug/L	79
11] Trichloroethene	8.618	130	214	64.82 ug/L	93
13] Toluene	10.634	91	1306	82.65 ug/L	98
14] 1,1,2-Trichloroethane	11.295	97	222	63.59 ug/L	86
15] Tetrachloroethene	11.495	166	270	62.34 ug/L	84
16] Chlorobenzene	12.829	112	726	65.20 ug/L	76
17] 1,1,1,2-Tetrachloroethane	12.980	131	259	69.87 ug/L #	47
18] Ethylbenzene	13.035	91	1306	72.81 ug/L	95
19] m&p-Xylene	13.226	91	2083	148.40 ug/L	93
20] o-Xylene	13.846	91	1026	69.37 ug/L	88
21] 1,1,2,2-Tetrachloroethane	14.943	83	407	59.29 ug/L	85
22] 1,3,5-Trimethylbenzene	15.409	105	1470	84.92 ug/L	86
23] 1,2,4-Trimethylbenzene	15.950	105	1255	71.27 ug/L	99
25) 2-Fluorotoluene SCAN	11.032	109	40238	5567.39 ug/L	82
26) 1,1-Dichloroethene SCAN	2.973	61	58	36.21 ug/L #	31
27) trans-1,2-Dichloroethe...	4.308	61	87	55.43 ug/L #	10
28) 1,1-Dichloroethane SCAN	5.084	63	168	69.96 ug/L #	49
29) cis-1,2-Dichloroethene...	5.728	61	192	101.85 ug/L #	50
30) Chloroform SCAN	6.675	83	189	83.10 ug/L #	5
31) 1,1,1-Trichloroethane ...	6.687	97	427	149.60 ug/L #	29
32) Carbon tetrachloride SCAN	6.808	117	501	244.04 ug/L #	38
33) Benzene SCAN	7.550	78	1700	273.18 ug/L #	70
34) 1,2-Dichloroethane SCAN	8.018	62	213	90.27 ug/L #	1
35) Trichloroethene SCAN	8.285	130	78	49.89 ug/L #	11
36) Toluene-d8 SCAN	10.538	98	31295	4931.67 ug/L	97
37) Toluene SCAN	10.654	91	621	87.50 ug/L #	84
38) 1,1,2-Trichloroethane ...	11.273	97	355	163.33 ug/L #	17
40) Chlorobenzene SCAN	12.677	112	137	24.56 ug/L #	1
42) Ethylbenzene SCAN	13.225	91	1290	138.67 ug/L	87
43) m&p-Xylene SCAN	13.225	91	1290	85.21 ug/L #	53
44) o-Xylene SCAN	13.868	91	406	49.53 ug/L #	41
46) 1,3,5-Trimethylbenzene...	14.987	105	240	25.47 ug/L	74
47) 1,2,4-Trimethylbenzene...	15.949	105	562	59.17 ug/L #	87

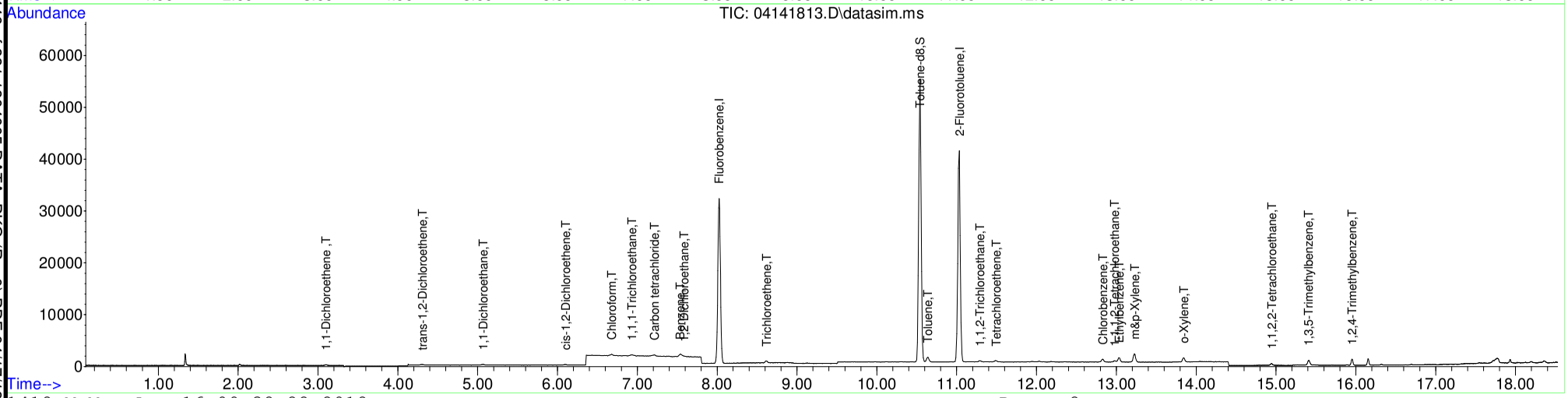
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141813.D
Acq On : 14 Apr 2018 15:36
InstName : AG5975C
Operator : RH
Sample : B18D036-MRL1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 16 09:38:21 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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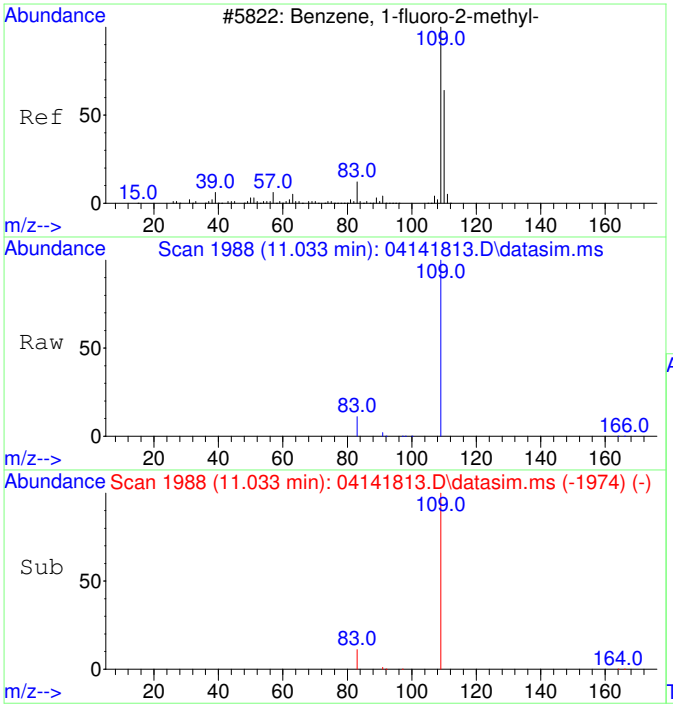
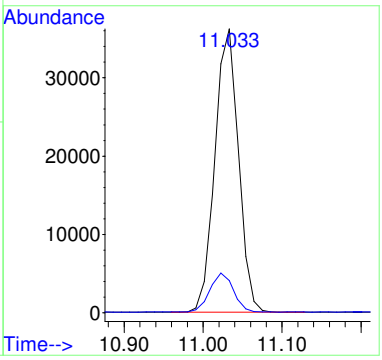
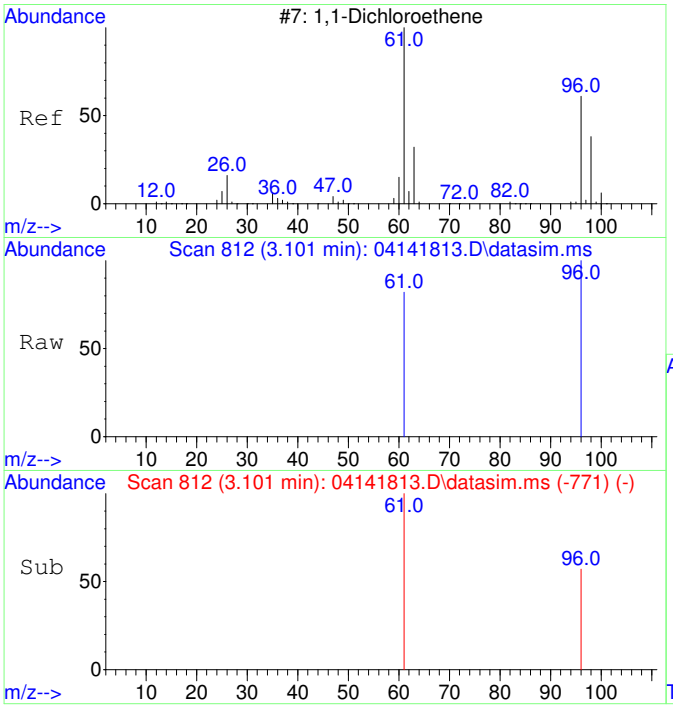


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:109 Resp: 74798

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

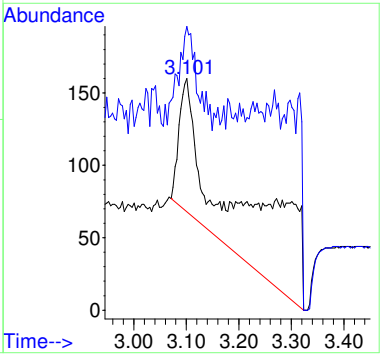




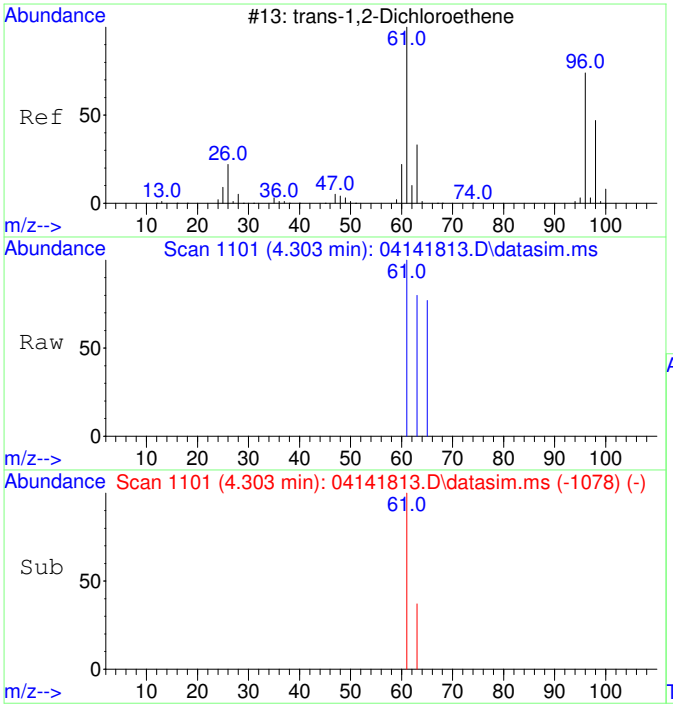
#2
1,1-Dichloroethene
Concen: 204.67 ug/L
RT: 3.101 min Scan# 812
Delta R.T. 0.003 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 672

Ion	Ratio	Lower	Upper
61	100		
96	52.2	26.1	86.1



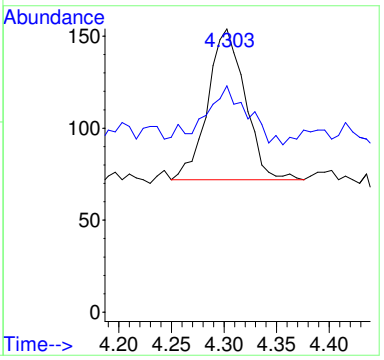
Before MI:
IMPROPER
BASELINE

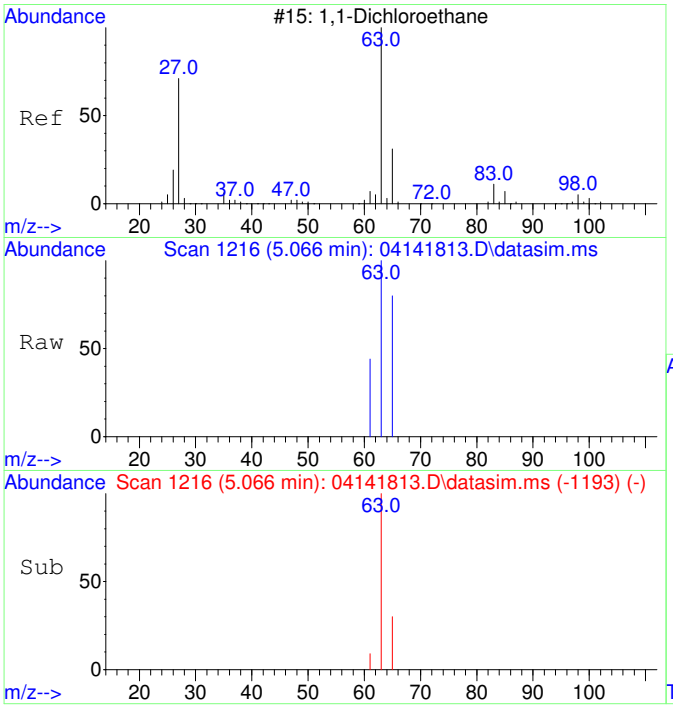


#3
trans-1,2-Dichloroethene
Concen: 60.21 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 202

Ion	Ratio	Lower	Upper
61	100		
63	40.1	2.0	62.0

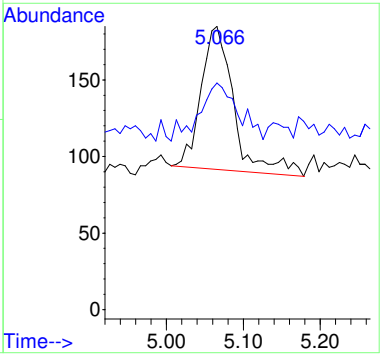


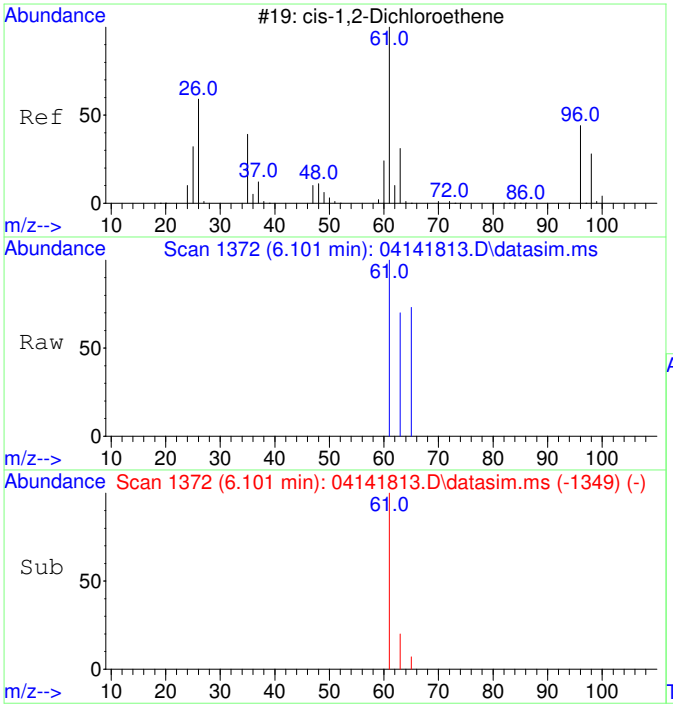


#4
1,1-Dichloroethane
Concen: 61.56 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 63 Resp: 275

Ion	Ratio	Lower	Upper
63	100		
65	30.5	1.8	61.8

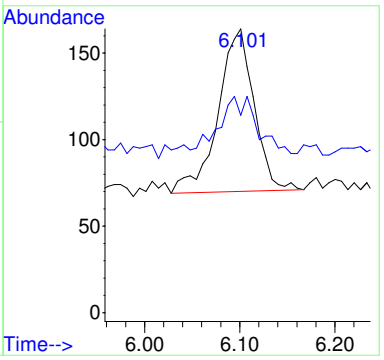


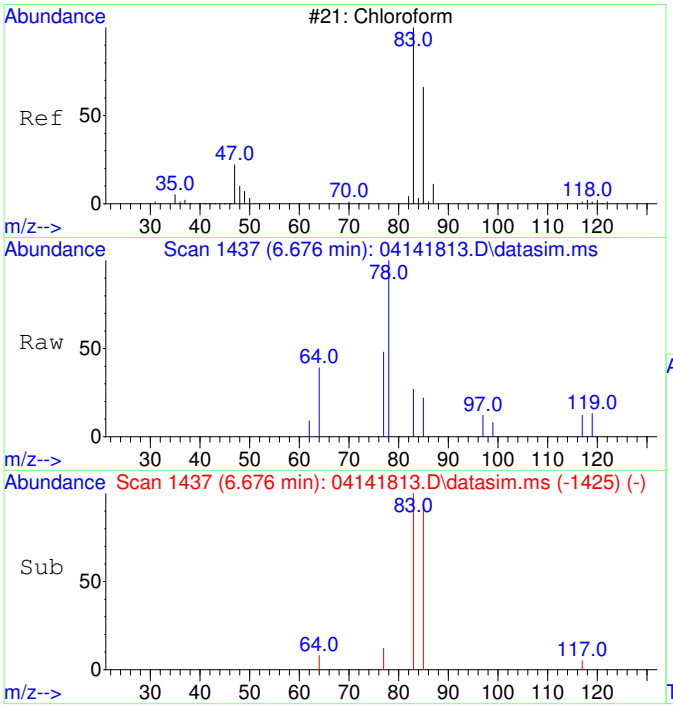


#5
cis-1,2-Dichloroethene
Concen: 60.01 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 248

Ion	Ratio	Lower	Upper
61	100		
63	48.8	2.0	62.0

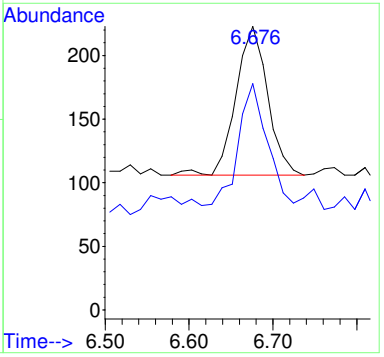


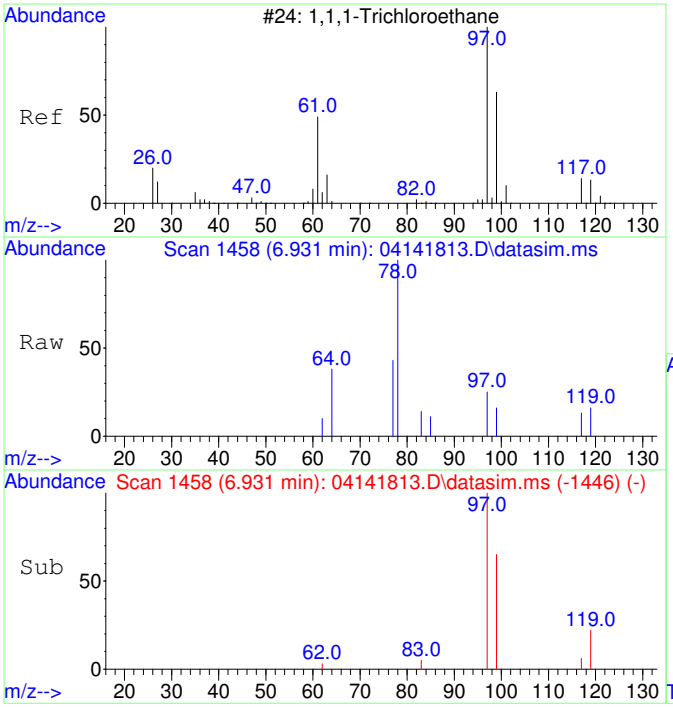


#6
Chloroform
Concen: 63.37 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 83 Resp: 308

Ion	Ratio	Lower	Upper
83	100		
85	76.6	34.2	94.2

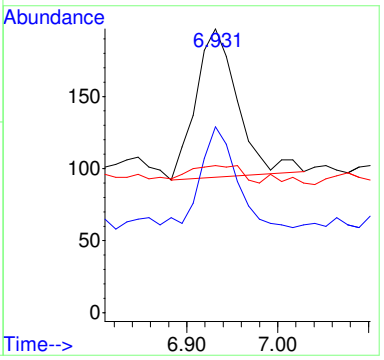


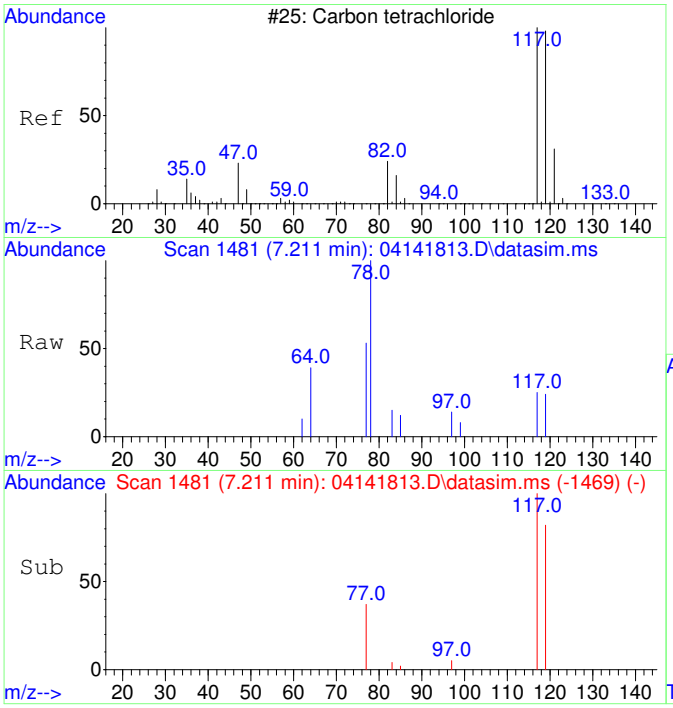


#7
1,1,1-Trichloroethane
Concen: 69.75 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 97 Resp: 331

Ion	Ratio	Lower	Upper
97	100		
99	58.9	34.5	94.5
117	14.2	0.0	42.6

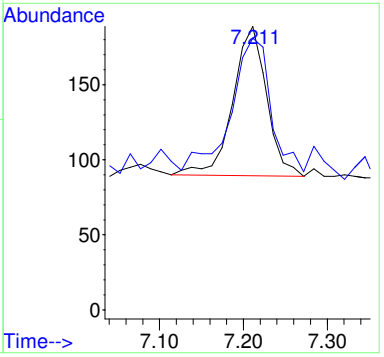


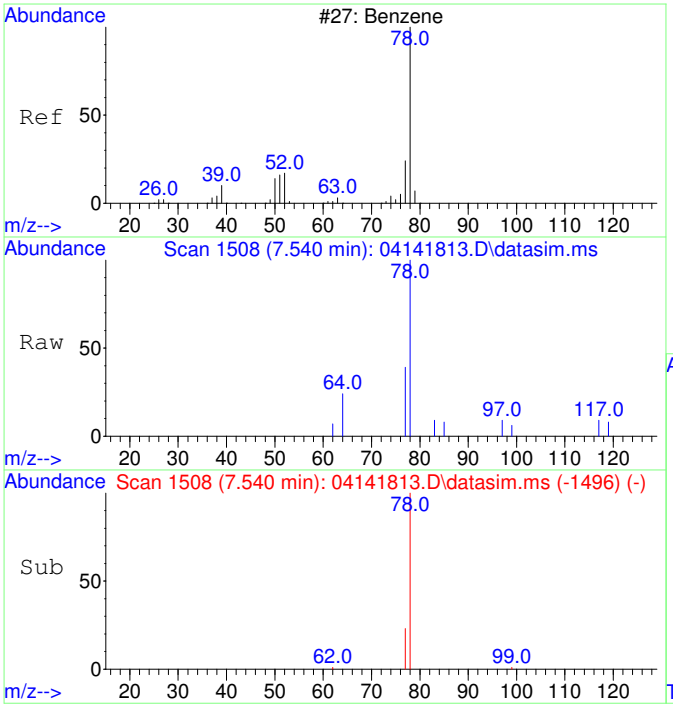


#8
Carbon tetrachloride
Concen: 64.21 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:117 Resp: 278

Ion	Ratio	Lower	Upper
117	100		
119	104.0	64.5	124.5

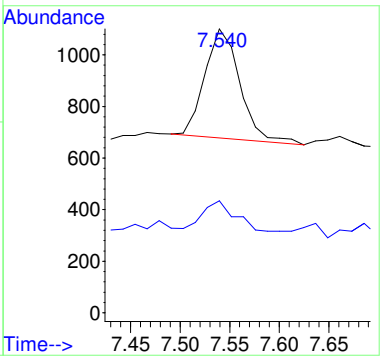


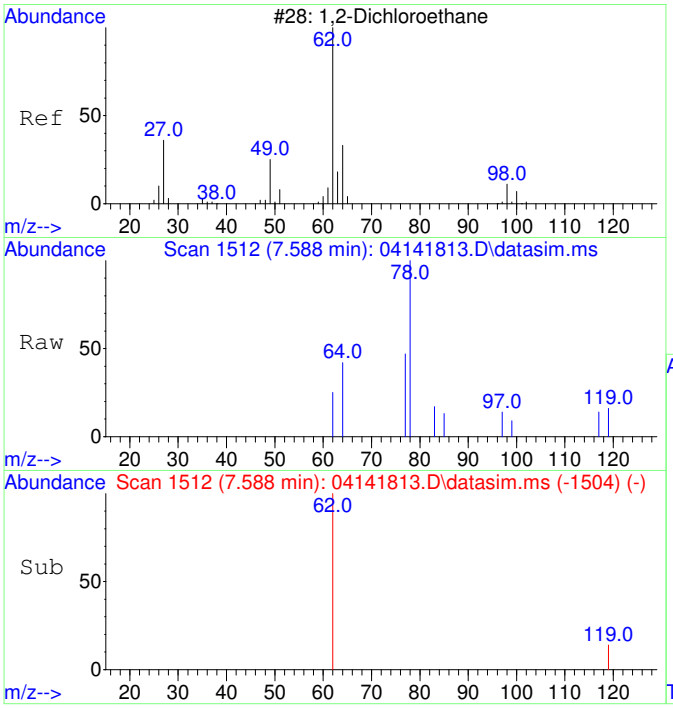


#9
Benzene
Concen: 86.05 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 78 Resp: 1031

Ion	Ratio	Lower	Upper
78	100		
77	25.8	0.0	53.6

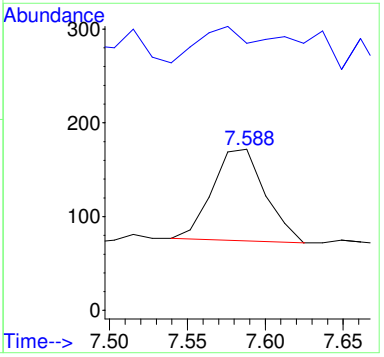


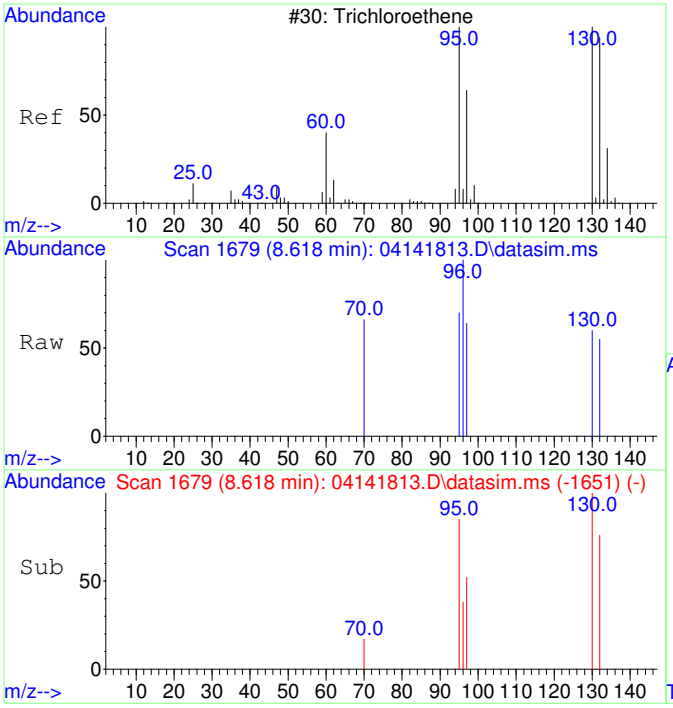


#10
1,2-Dichloroethane
Concen: 54.82 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 62 Resp: 229

Ion	Ratio	Lower	Upper
62	100		
64	43.7	1.8	61.8

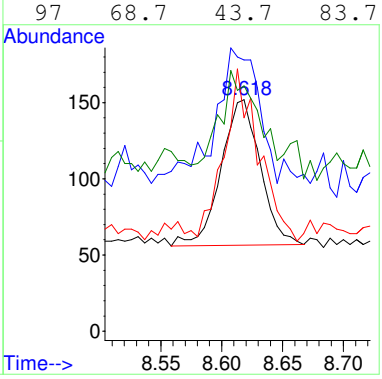


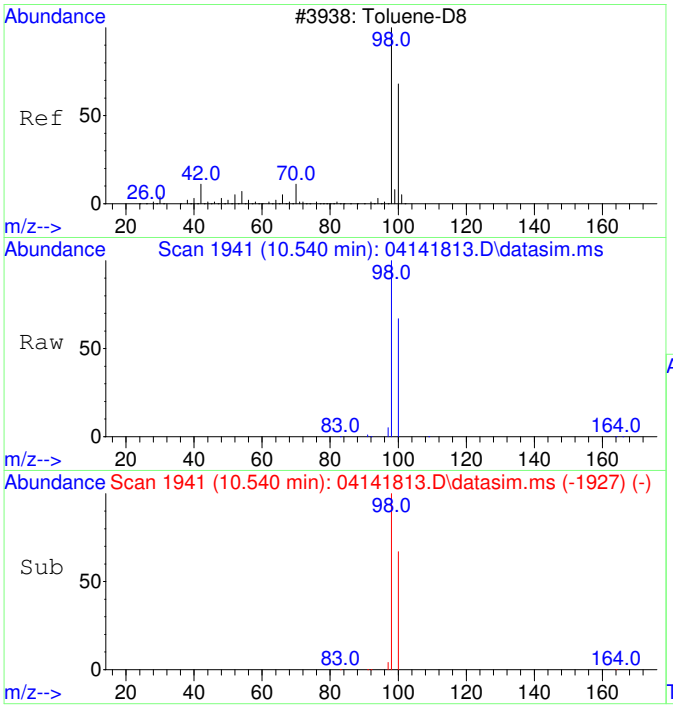


#11
Trichloroethene
Concen: 64.82 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:130 Resp: 214

Ion	Ratio	Lower	Upper
130	100		
95	103.7	68.8	128.8
132	107.0	78.6	118.6
97	68.7	43.7	83.7

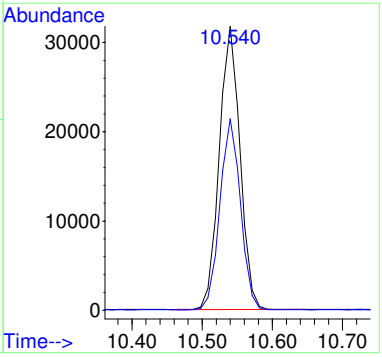


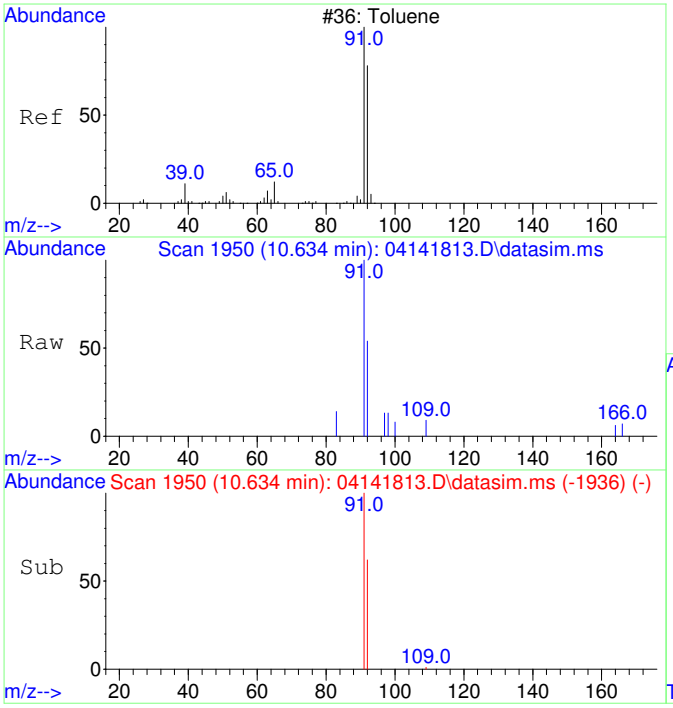


#12
Toluene-d8
Concen: 5202.06 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 98 Resp: 65310

Ion	Ratio	Lower	Upper
98	100		
100	66.6	36.9	96.9

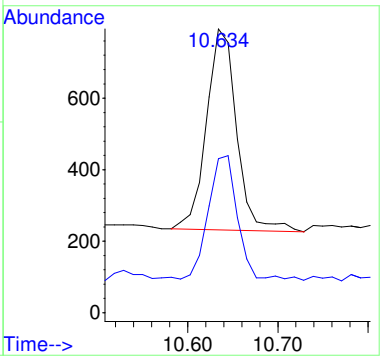


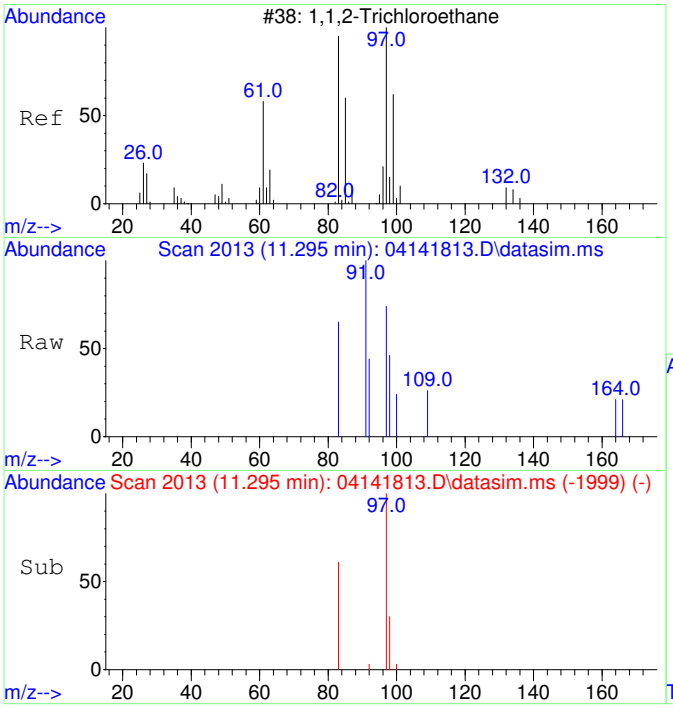


#13
Toluene
Concen: 82.65 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1306

Ion	Ratio	Lower	Upper
91	100		
92	57.0	28.8	88.8

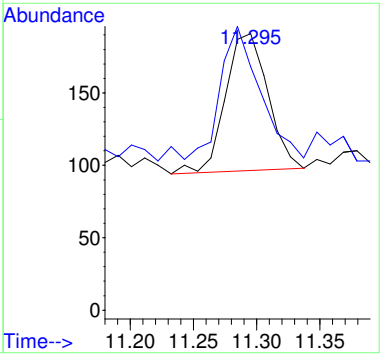


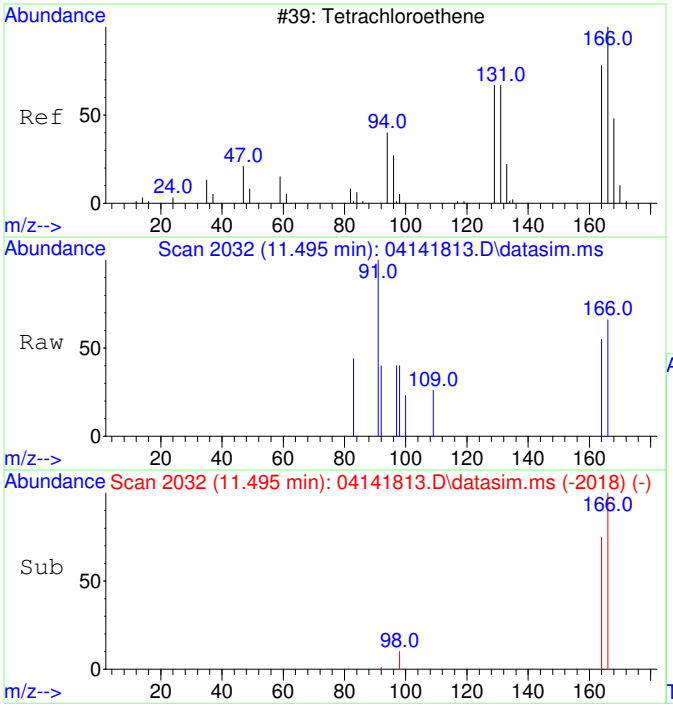


#14
1,1,2-Trichloroethane
Concen: 63.59 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 97 Resp: 222

Ion	Ratio	Lower	Upper
97	100		
83	96.8	54.3	114.3

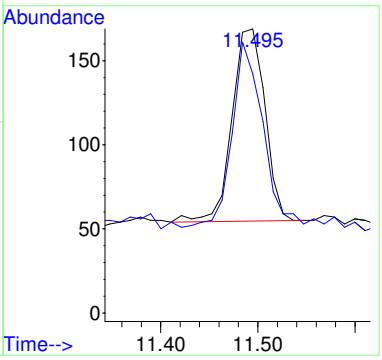


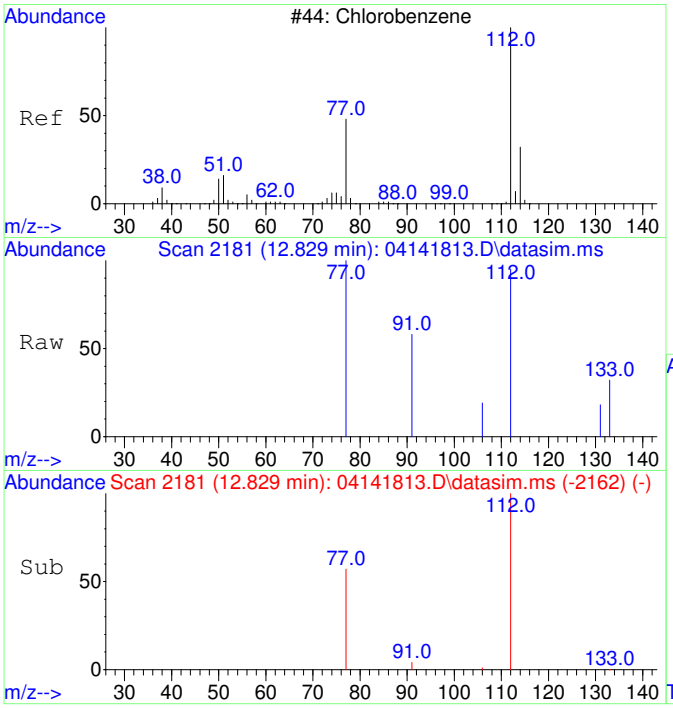


#15
Tetrachloroethene
Concen: 62.34 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:166 Resp: 270

Ion	Ratio	Lower	Upper
166	100		
164	92.2	48.0	108.0

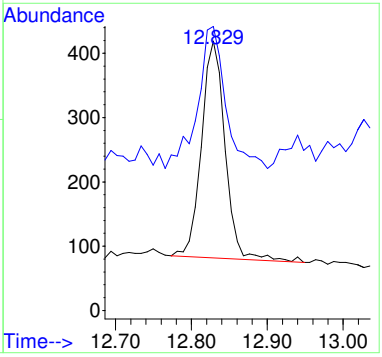


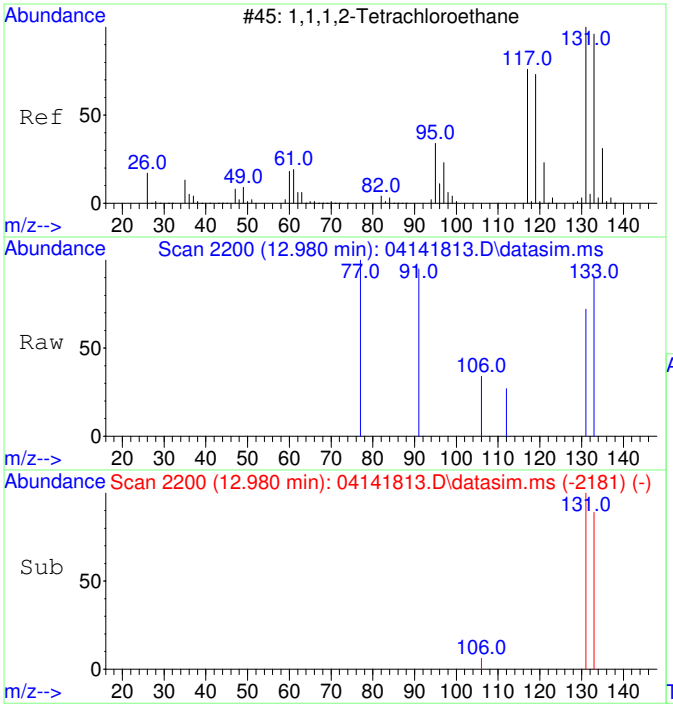


#16
Chlorobenzene
Concen: 65.20 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:112 Resp: 726

Ion	Ratio	Lower	Upper
112	100		
77	77.8	29.4	89.4

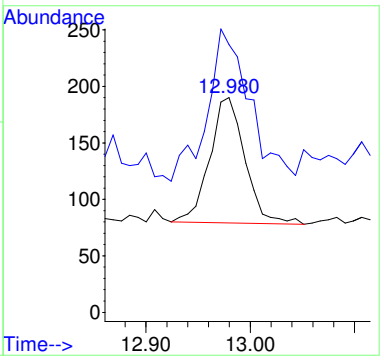


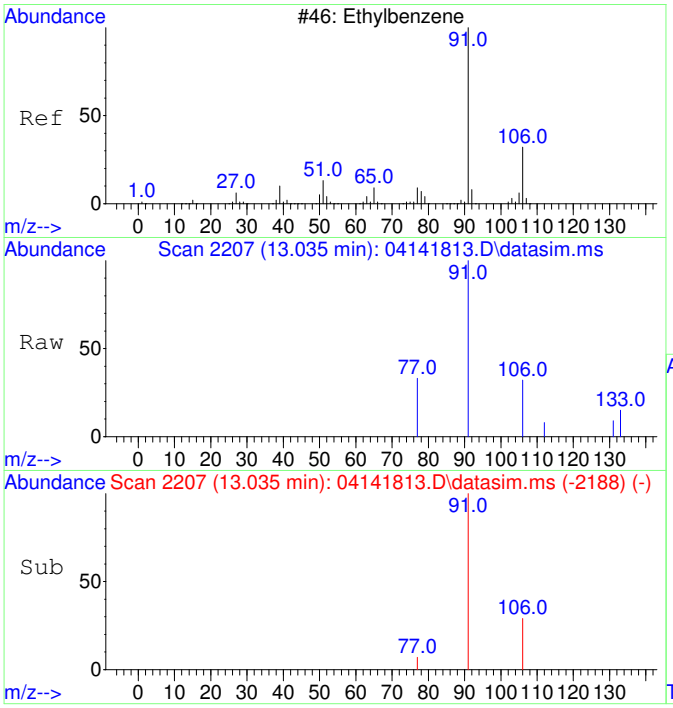


#17
1,1,1,2-Tetrachloroethane
Concen: 69.87 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:131 Resp: 259

Ion	Ratio	Lower	Upper
131	100		
133	146.3	65.1	125.1#

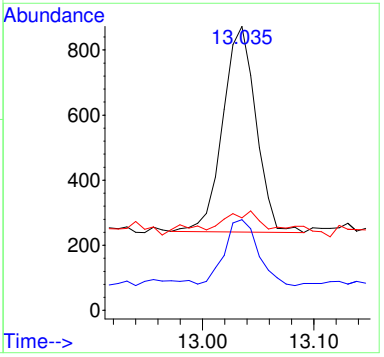


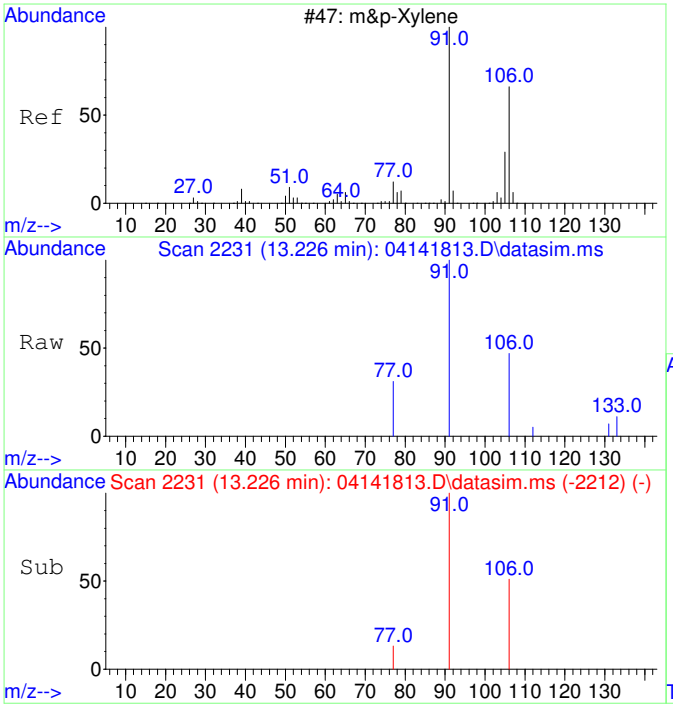


#18
Ethylbenzene
Concen: 72.81 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1306

Ion	Ratio	Lower	Upper
91	100		
106	32.8	1.8	61.8
77	14.6	0.0	38.7

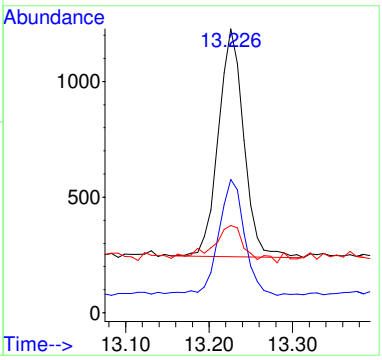


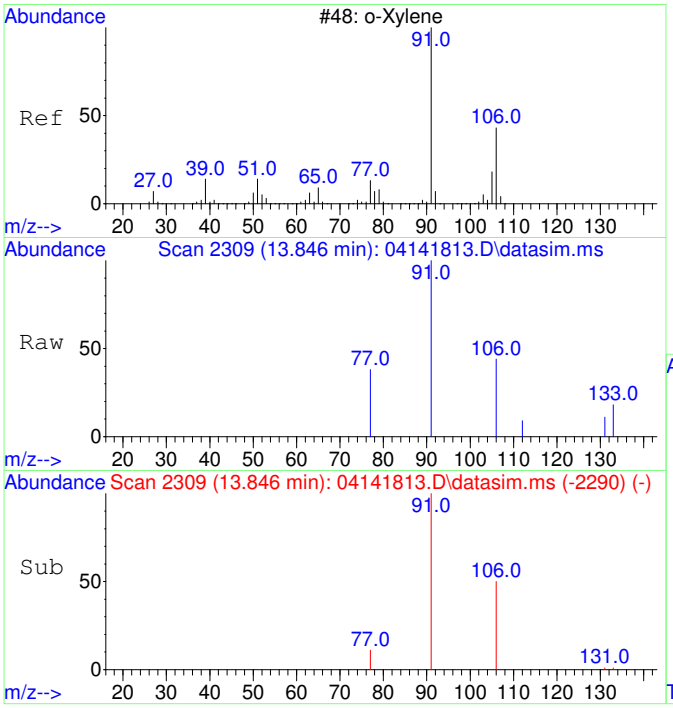


#19
m&p-Xylene
Concen: 148.40 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 2083

Ion	Ratio	Lower	Upper
91	100		
106	51.5	20.0	80.0
77	22.8	0.0	43.4

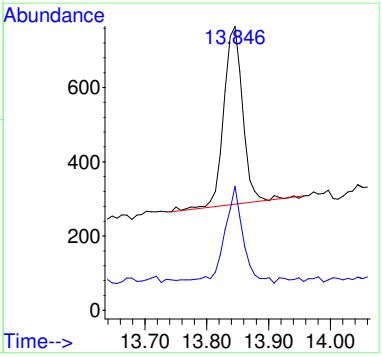


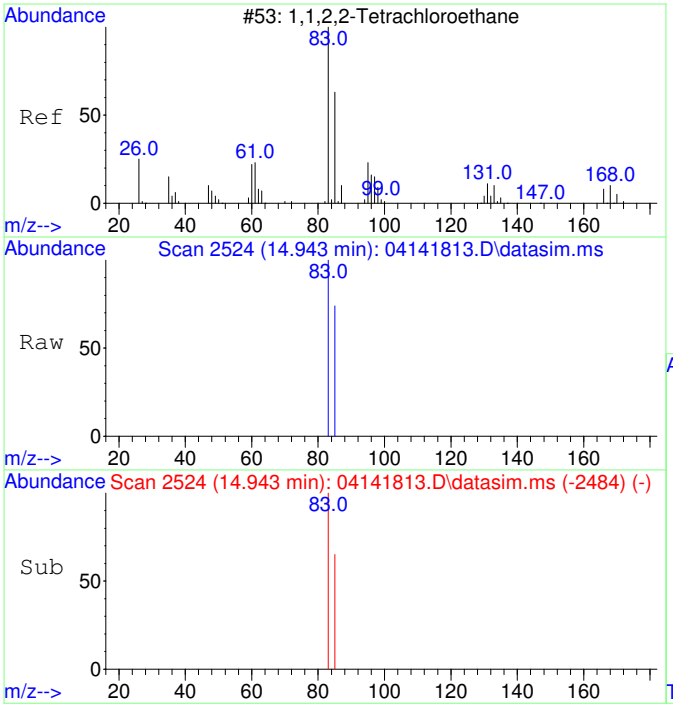


#20
o-Xylene
Concen: 69.37 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1026

Ion	Ratio	Lower	Upper
91	100		
106	54.8	16.9	76.9

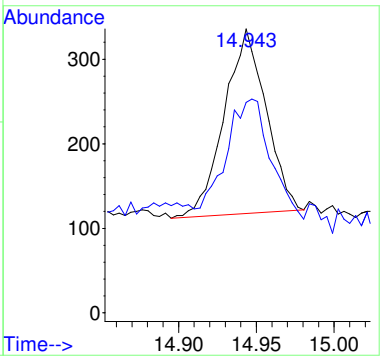


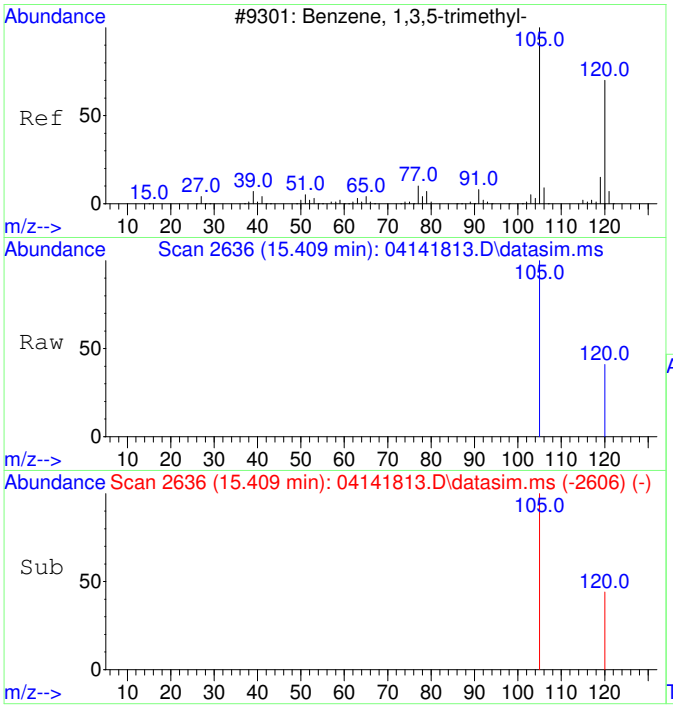


#21
1,1,2,2-Tetrachloroethane
Concen: 59.29 ug/L
RT: 14.943 min Scan# 2524
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 83 Resp: 407

Ion	Ratio	Lower	Upper
83	100		
85	75.9	34.3	94.3

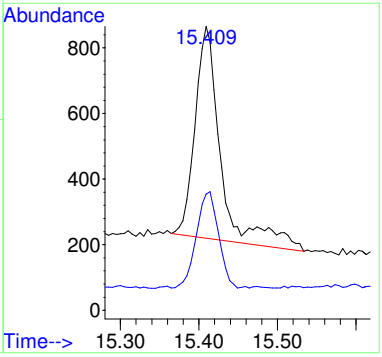


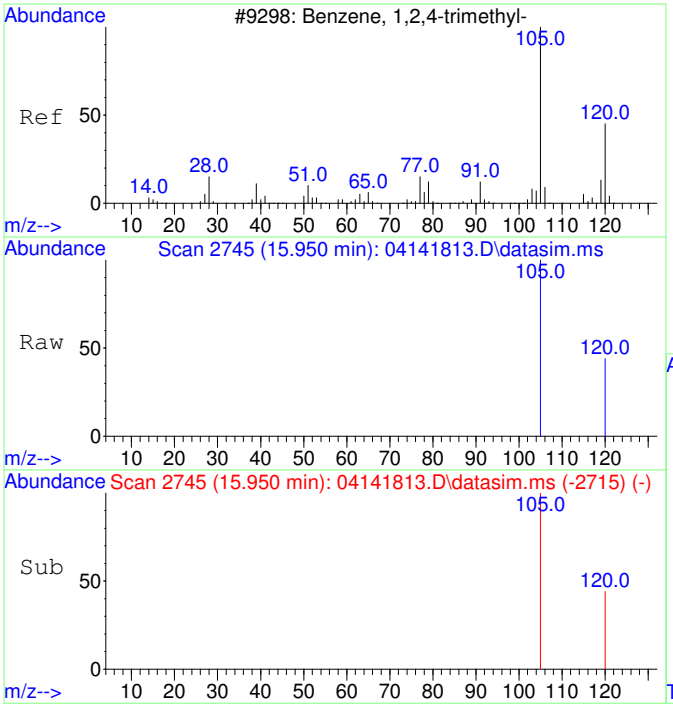


#22
1,3,5-Trimethylbenzene
Concen: 84.92 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:105 Resp: 1470

Ion	Ratio	Lower	Upper
105	100		
120	38.7	18.1	78.1

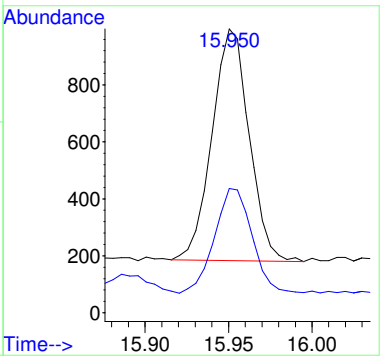


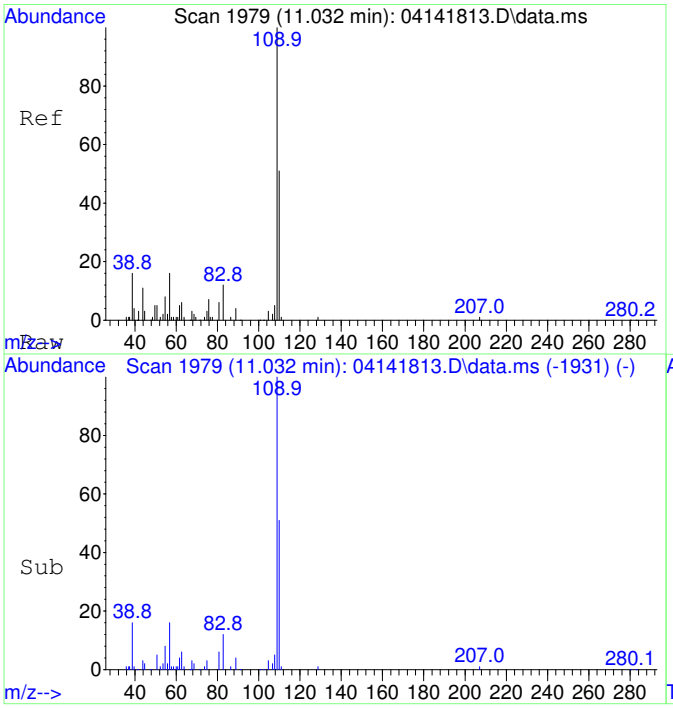


#23
1,2,4-Trimethylbenzene
Concen: 71.27 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:105 Resp: 1255

Ion	Ratio	Lower	Upper
105	100		
120	45.3	14.5	74.5

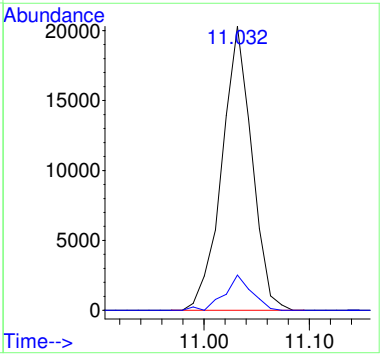


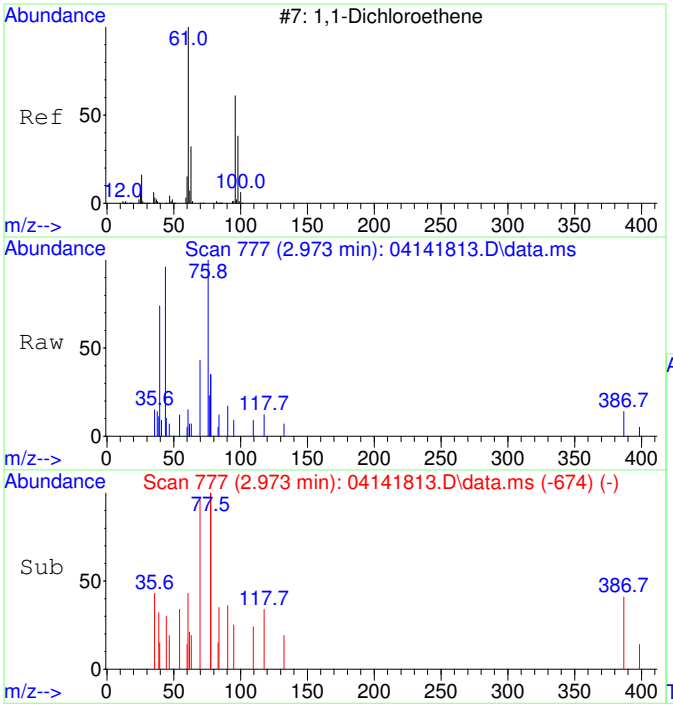


#25
2-Fluorotoluene SCAN
Concen: 5567.39 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:109 Resp: 40238

Ion	Ratio	Lower	Upper
109	100		
83	11.3	0.0	49.2

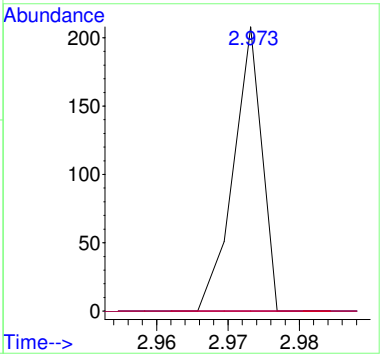


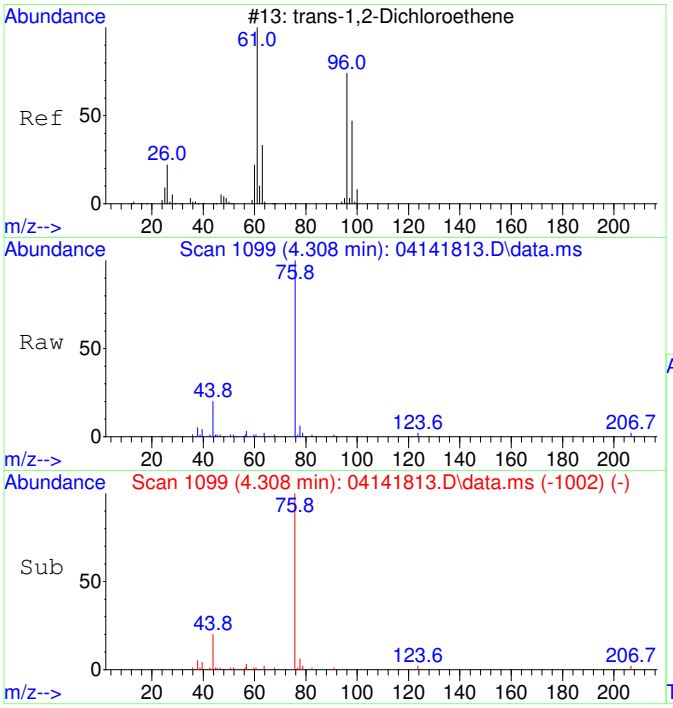


#26
1,1-Dichloroethene SCAN
Concen: 36.21 ug/L
RT: 2.973 min Scan# 777
Delta R.T. -0.119 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 58

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.6	81.6#
98	0.0	7.5	67.5#

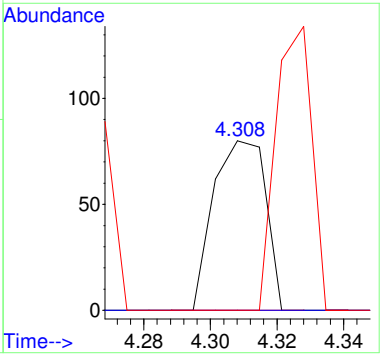


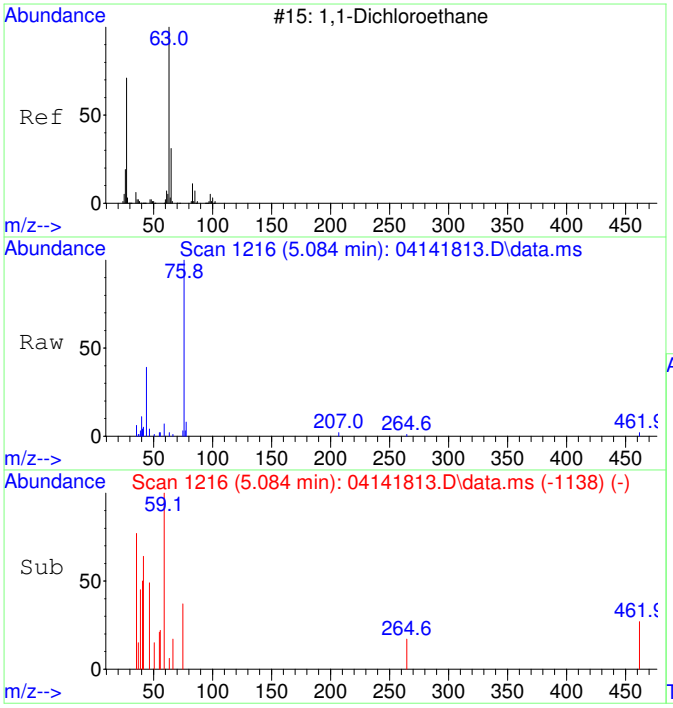


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.43 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 87

Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.8	111.8#
98	114.9	22.7	82.7#

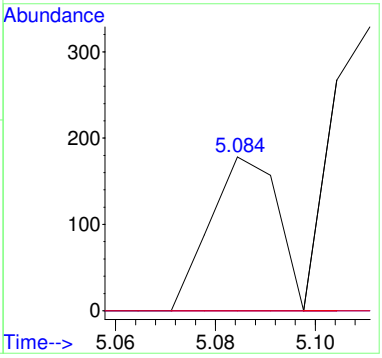


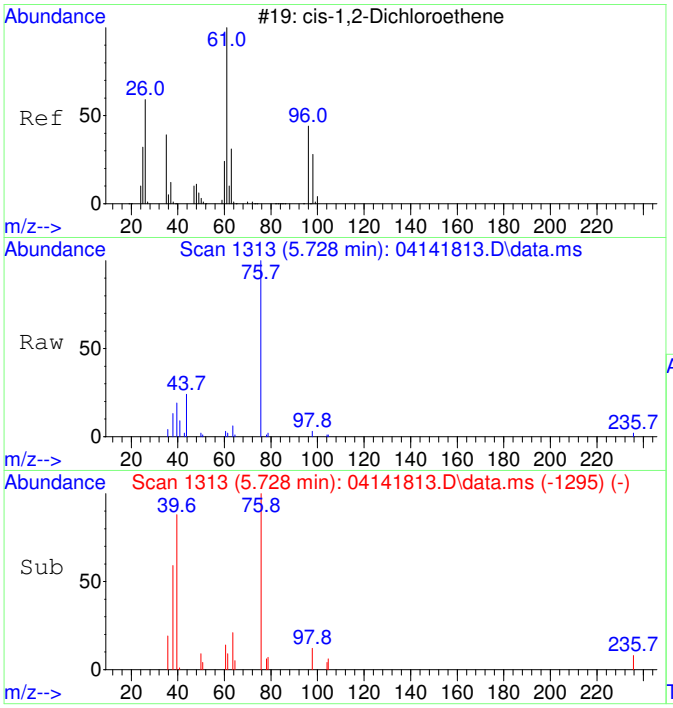


#28
1,1-Dichloroethane SCAN
Concen: 69.96 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 63 Resp: 168

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	0.0	0.0	38.2

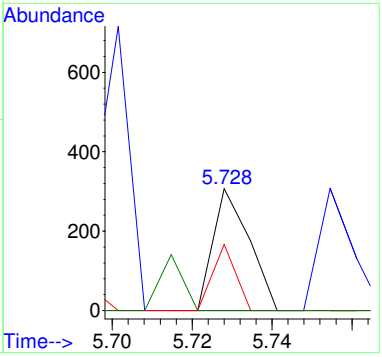


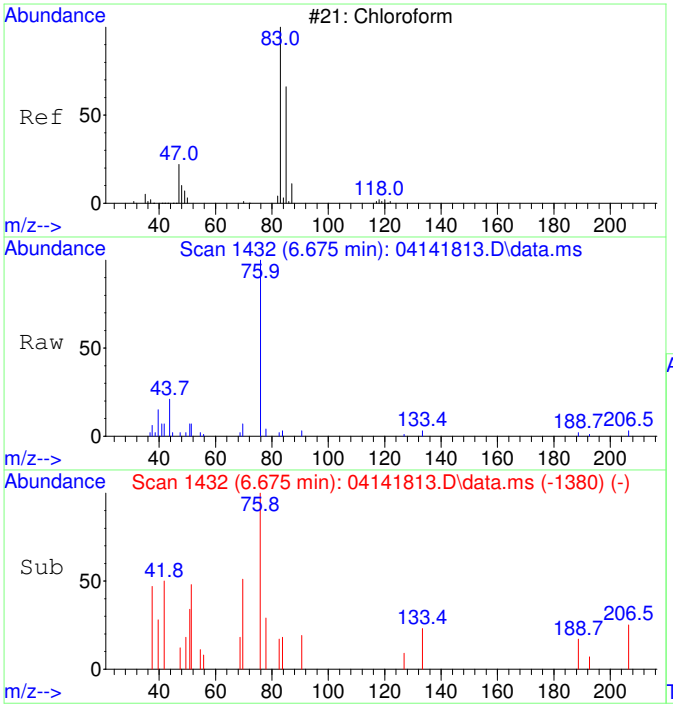


#29
cis-1,2-Dichloroethene SCAN
Concen: 101.85 ug/L
RT: 5.728 min Scan# 1313
Delta R.T. -0.378 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 192

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.4	109.4#
98	34.9	9.5	69.5
63	29.2	0.0	60.0

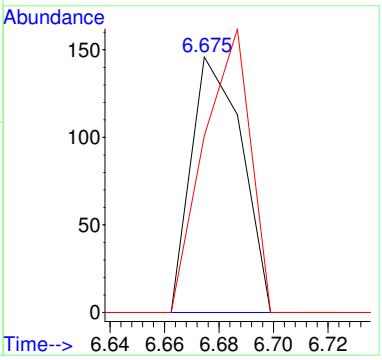


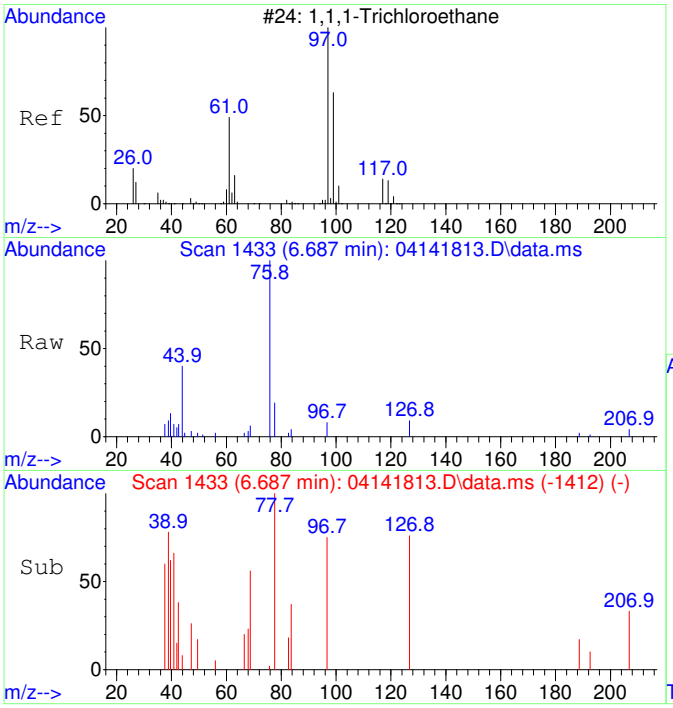


#30
Chloroform SCAN
Concen: 83.10 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 83 Resp: 189

Ion	Ratio	Lower	Upper
83	100		
85	0.0	47.8	107.8#
47	101.6	8.2	68.2#

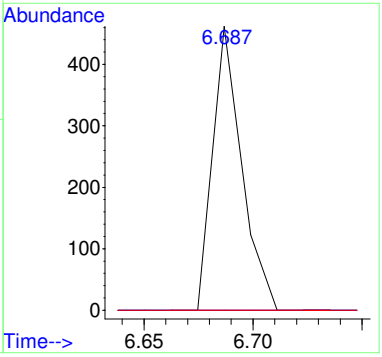


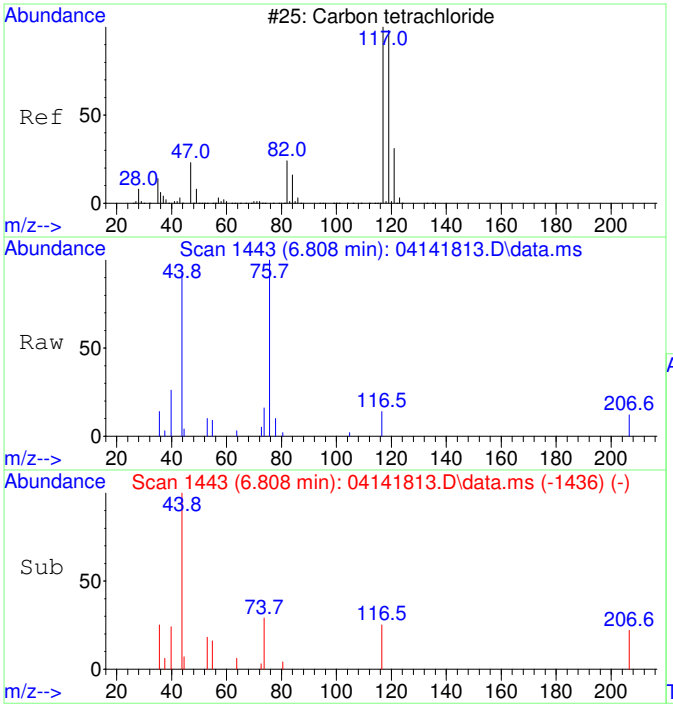


#31
1,1,1-Trichloroethane SCAN
Concen: 149.60 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. -0.244 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 97 Resp: 427

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

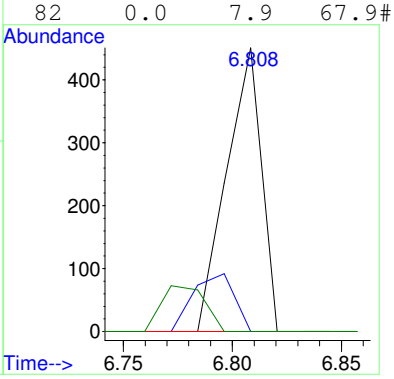


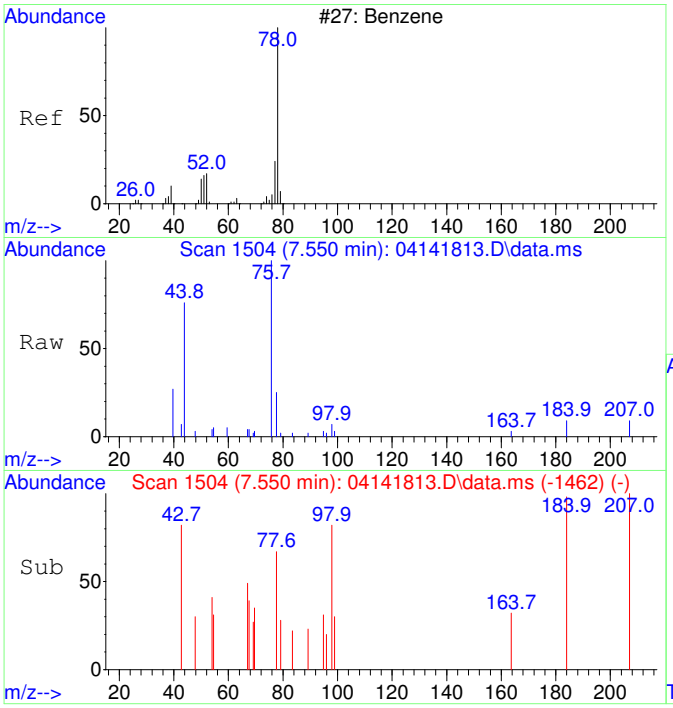


#32
Carbon tetrachloride SCAN
Concen: 244.04 ug/L
RT: 6.808 min Scan# 1443
Delta R.T. -0.414 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:117 Resp: 501

Ion	Ratio	Lower	Upper
117	100		
119	24.2	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

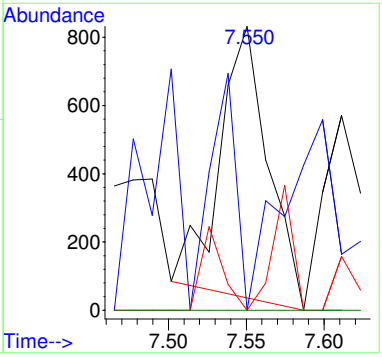


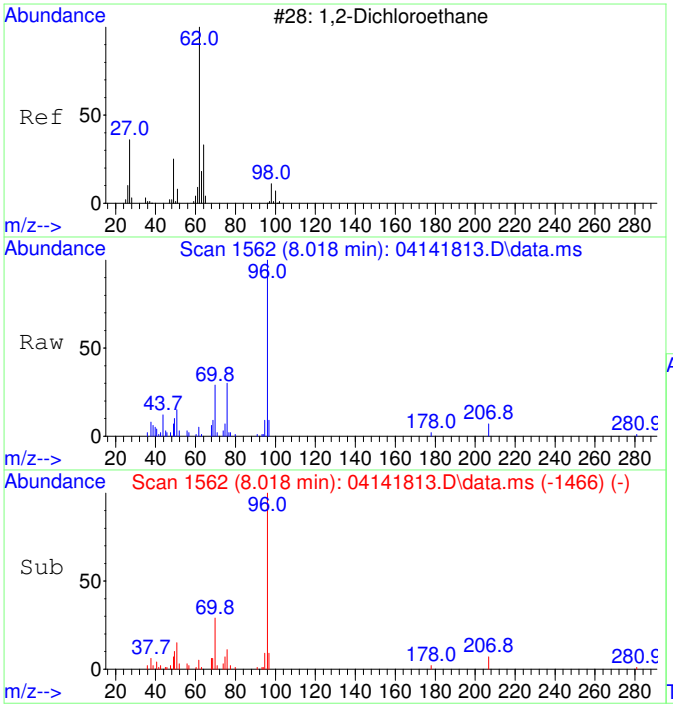


#33
Benzene SCAN
Concen: 273.18 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 78 Resp: 1700

Ion	Ratio	Lower	Upper
78	100		
77	47.2	5.4	65.4
51	0.0	0.0	47.2
52	0.0	0.0	47.4

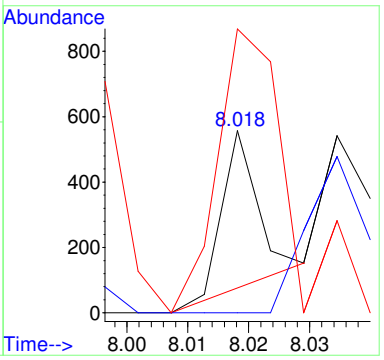


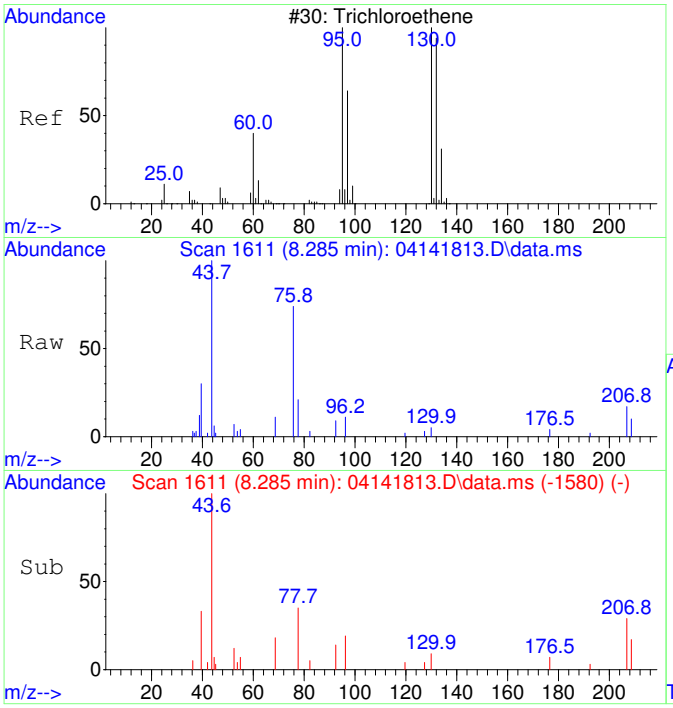


#34
1,2-Dichloroethane SCAN
Concen: 90.27 ug/L
RT: 8.018 min Scan# 1562
Delta R.T. 0.431 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 62 Resp: 213

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	325.8	1.2	61.2#

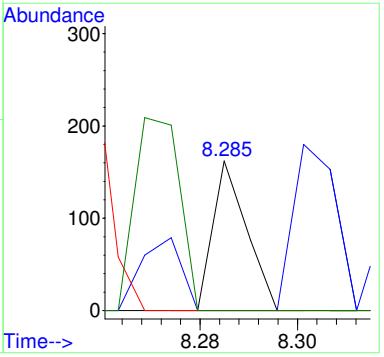


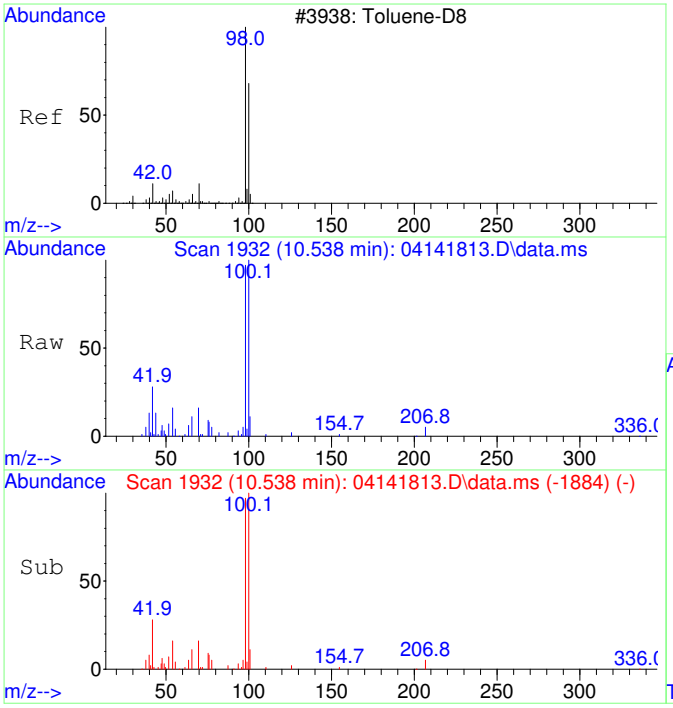


#35
Trichloroethene SCAN
Concen: 49.89 ug/L
RT: 8.285 min Scan# 1611
Delta R.T. -0.332 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:130 Resp: 78

Ion	Ratio	Lower	Upper
130	100		
95	179.5	71.3	131.3#
132	0.0	75.1	135.1#
97	0.0	41.3	101.3#

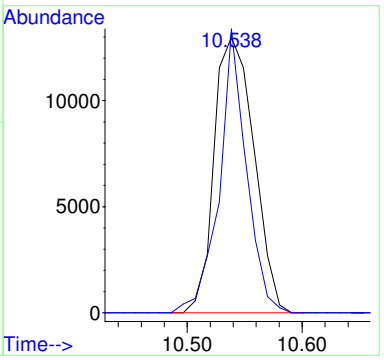


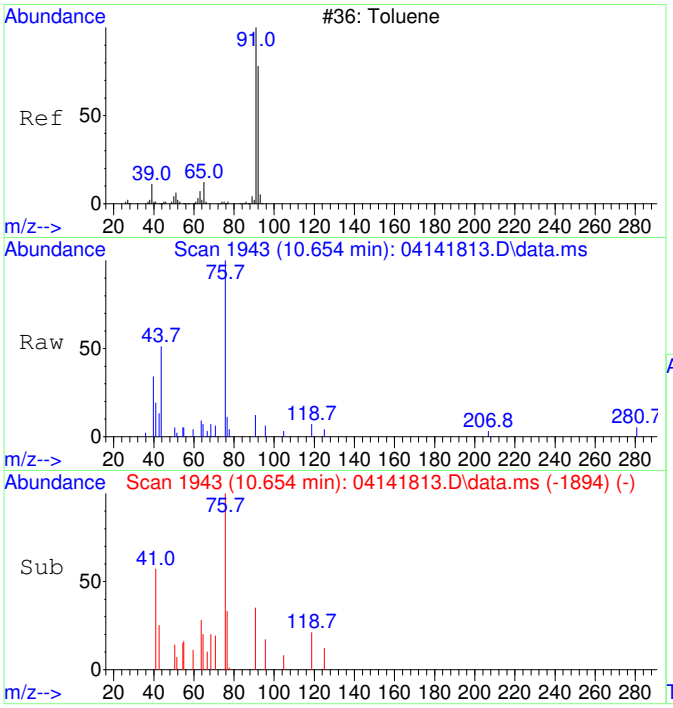


#36
Toluene-d8 SCAN
Concen: 4931.67 ug/L
RT: 10.538 min Scan# 1932
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 98 Resp: 31295

Ion	Ratio	Lower	Upper
98	100		
100	70.0	37.3	97.3

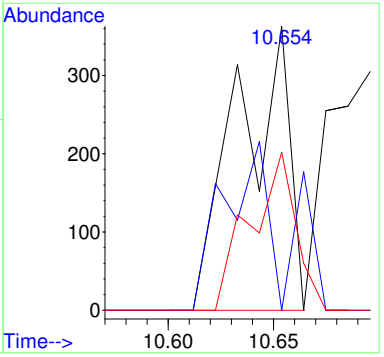


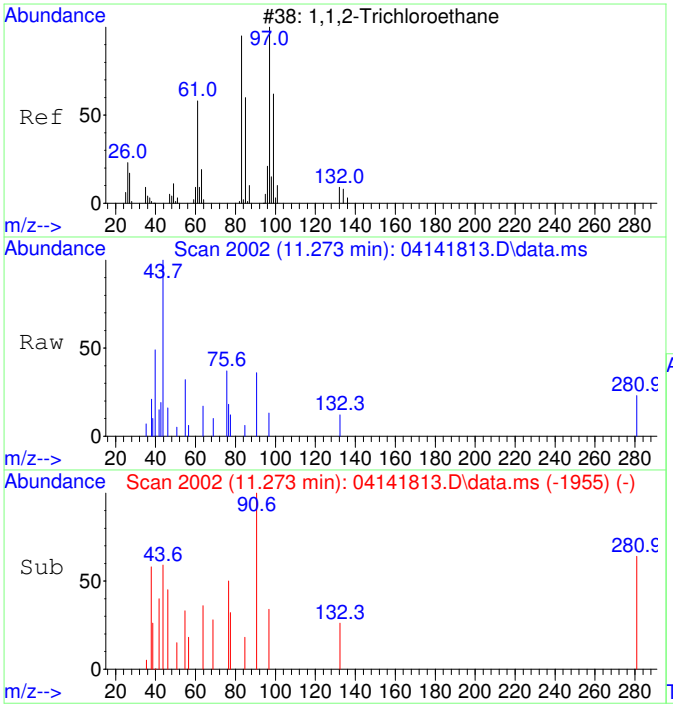


#37
Toluene SCAN
Concen: 87.50 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 621

Ion	Ratio	Lower	Upper
91	100		
92	68.0	39.1	99.1
65	49.0	0.0	43.8#

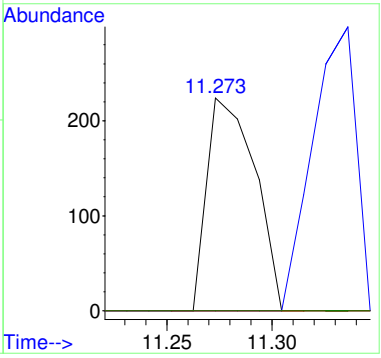


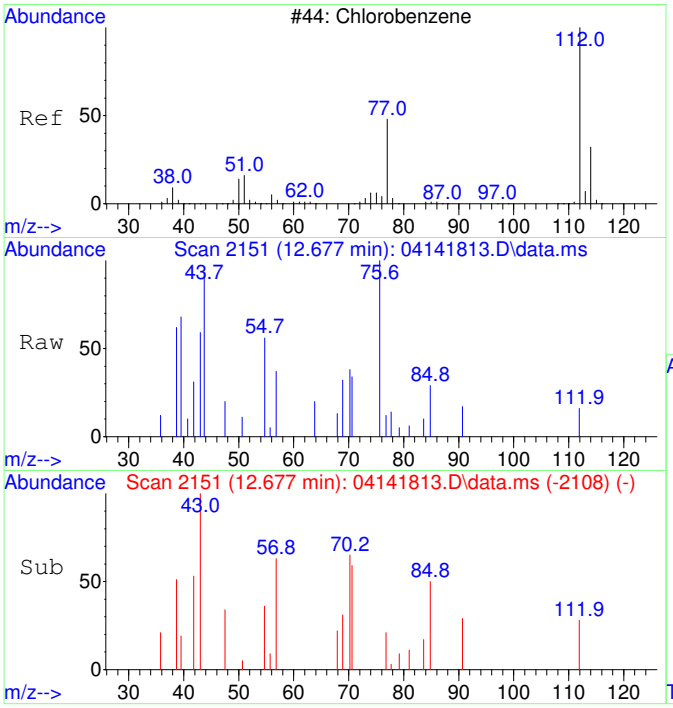


#38
1,1,2-Trichloroethane SCAN
Concen: 163.33 ug/L
RT: 11.273 min Scan# 2002
Delta R.T. -0.011 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 97 Resp: 355

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

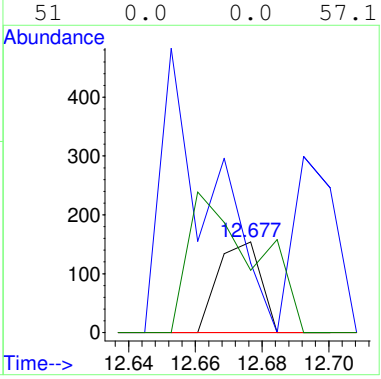


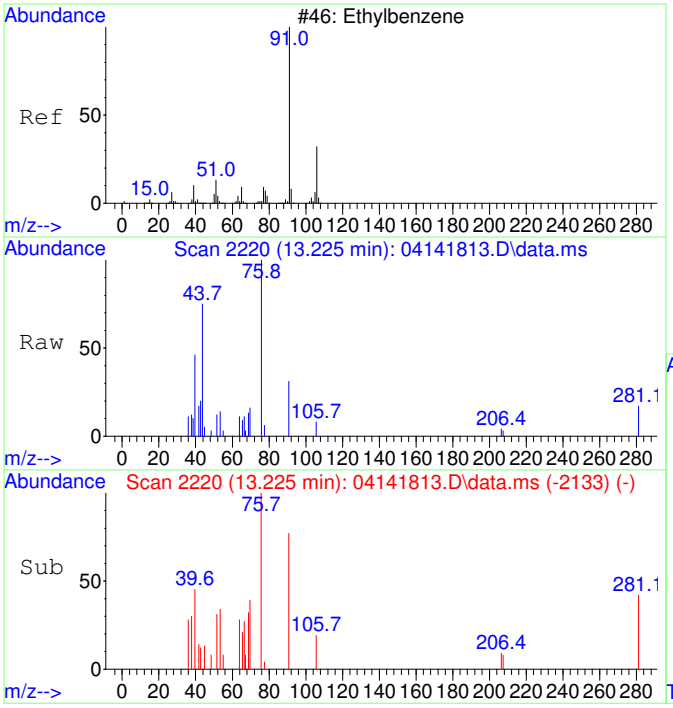


#40
Chlorobenzene SCAN
Concen: 24.56 ug/L
RT: 12.677 min Scan# 2151
Delta R.T. -0.159 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:112 Resp: 137

Ion	Ratio	Lower	Upper
112	100		
77	189.8	39.7	99.7#
114	0.0	1.2	61.2#
51	0.0	0.0	57.1

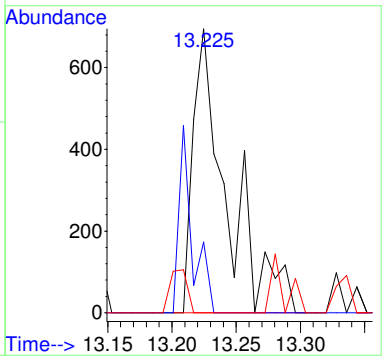


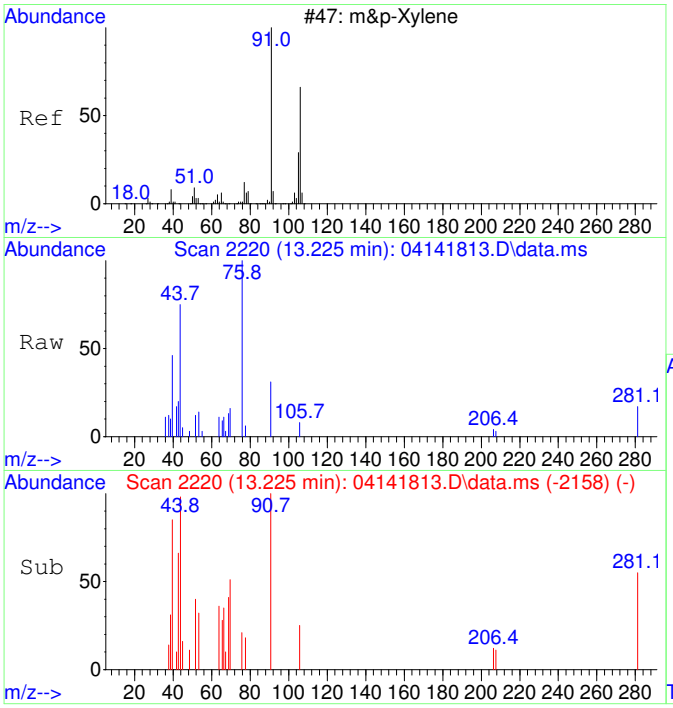


#42
Ethylbenzene SCAN
Concen: 138.67 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. 0.190 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1290

Ion	Ratio	Lower	Upper
91	100		
106	25.8	1.8	61.8
51	7.7	0.0	45.4

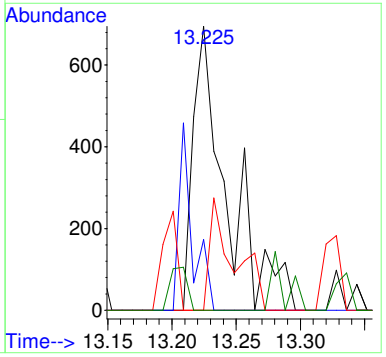


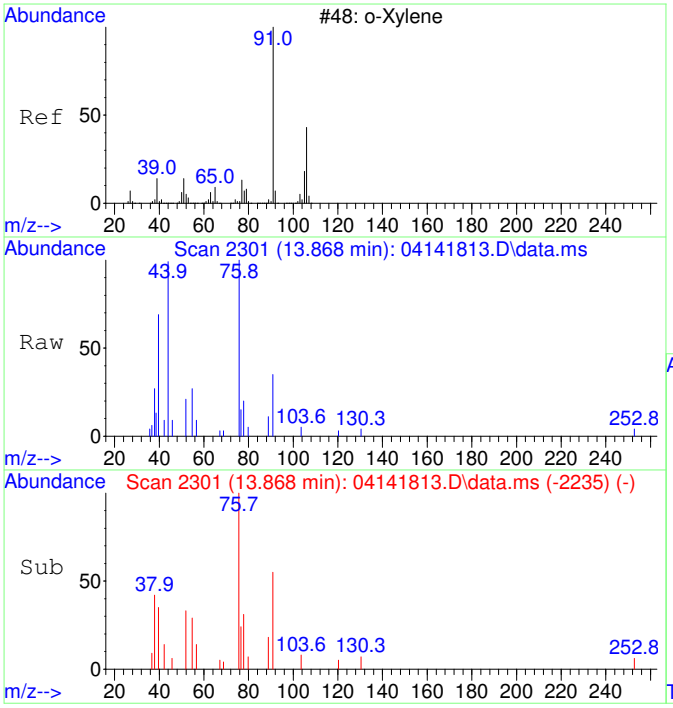


#43
m&p-Xylene SCAN
Concen: 85.21 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1290

Ion	Ratio	Lower	Upper
91	100		
106	0.0	14.6	74.6#
105	28.3	0.0	52.8
51	0.0	0.0	44.5

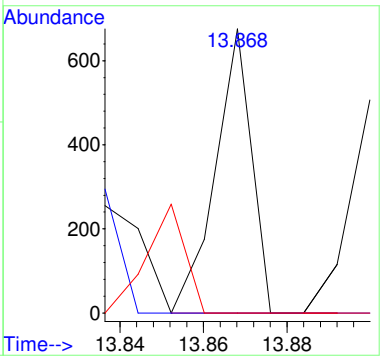


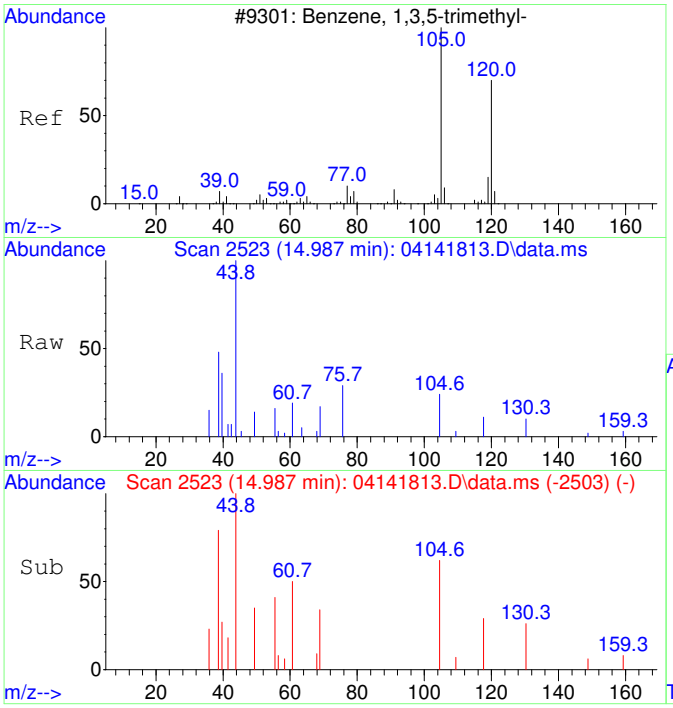


#44
o-Xylene SCAN
Concen: 49.53 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.024 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 406

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	41.1	0.0	54.9

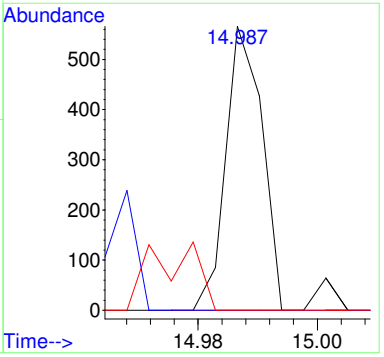


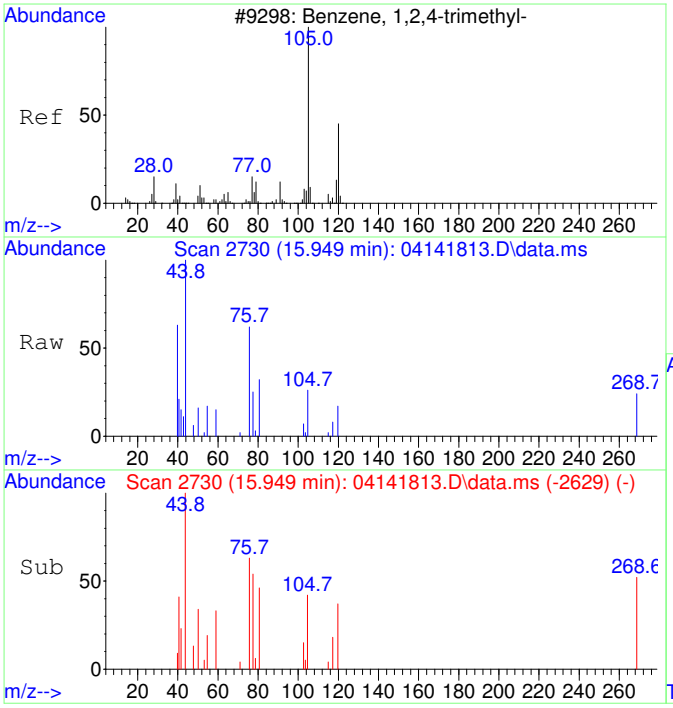


#46
1,3,5-Trimethylbenzene SCAN
Concen: 25.47 ug/L
RT: 14.987 min Scan# 2523
Delta R.T. -0.425 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:105 Resp: 240

Ion	Ratio	Lower	Upper
105	100		
120	32.1	16.1	76.1
119	30.0	0.0	41.8

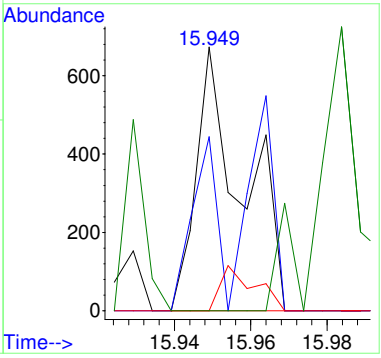


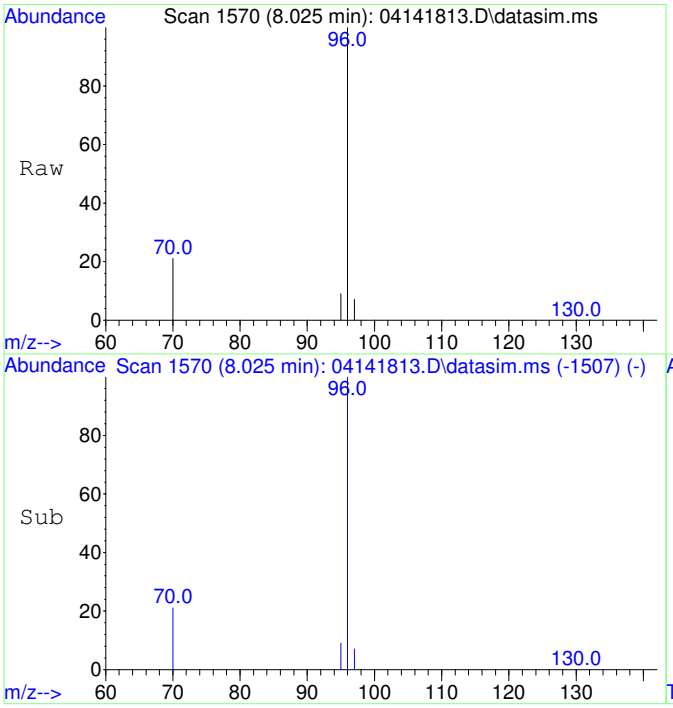


#47
1,2,4-Trimethylbenzene SCAN
Concen: 59.17 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. 0.001 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:105 Resp: 562

Ion	Ratio	Lower	Upper
105	100		
120	35.9	12.8	72.8
119	12.8	0.0	42.5
77	0.0	0.0	42.2

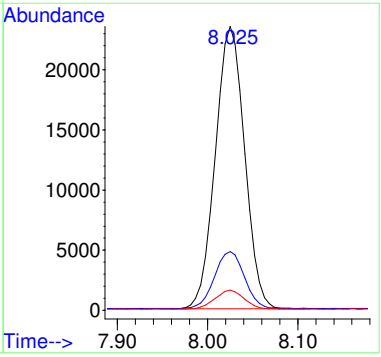




#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 96 Resp: 52821

Ion	Ratio	Lower	Upper
96	100		
70	20.8	0.0	50.7
97	6.7	0.0	36.7



Quantitation Report (QT Reviewed)

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M.I. Performed By:

RH at 11:53 am, Apr 16, 2018

M.I. Approved By:

ZR at 3:12 pm, Apr 16, 2018

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141813.D
Acq On : 14 Apr 2018 15:36
InstName : AG5975C
Operator : RH
Sample : B18D036-MRL1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 16 09:38:21 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

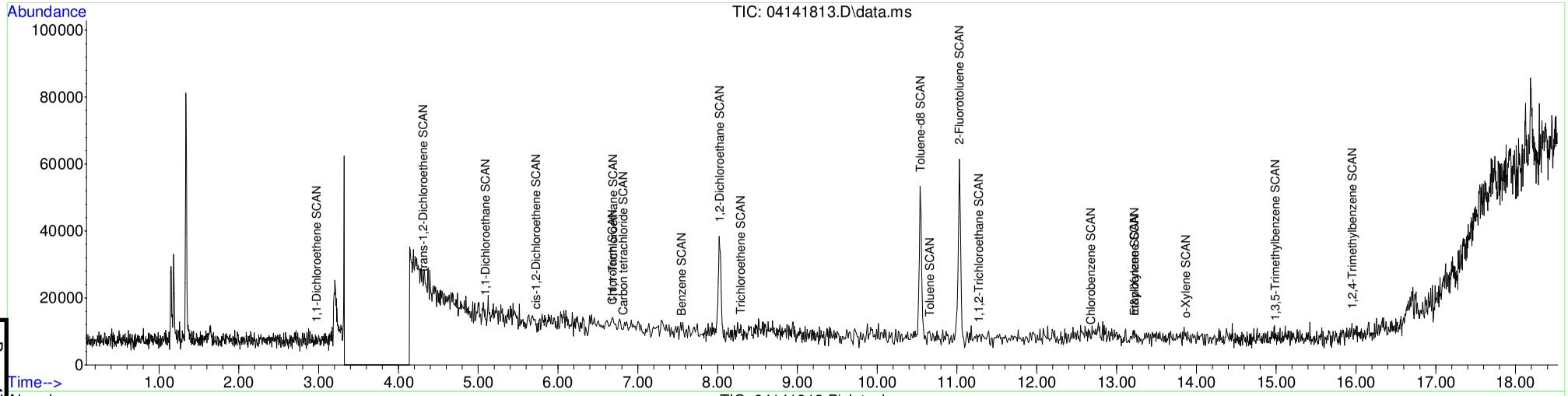
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	11.033	109	74798	5000.00	ug/L		0.00
49) Fluorobenzene	8.025	96	52821	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.540	98	65310	5202.06	ug/L		0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.04%				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.101	61	180m	54.82	ug/L		
3] trans-1,2-Dichloroethene	4.303	61	202	60.21	ug/L		85
4] 1,1-Dichloroethane	5.066	63	275	61.56	ug/L		98
5] cis-1,2-Dichloroethene	6.101	61	248	60.01	ug/L		70
6] Chloroform	6.676	83	308	63.37	ug/L		84
7] 1,1,1-Trichloroethane	6.931	97	331	69.75	ug/L		93
8] Carbon tetrachloride	7.211	117	278	64.21	ug/L		90
9] Benzene	7.540	78	1031	86.05	ug/L		96
10] 1,2-Dichloroethane	7.588	62	229	54.82	ug/L		79
11] Trichloroethene	8.618	130	214	64.82	ug/L		93
13] Toluene	10.634	91	1306	82.65	ug/L		98
14] 1,1,2-Trichloroethane	11.295	97	222	63.59	ug/L		86
15] Tetrachloroethene	11.495	166	270	62.34	ug/L		84
16] Chlorobenzene	12.829	112	726	65.20	ug/L		76
17] 1,1,1,2-Tetrachloroethane	12.980	131	259	69.87	ug/L	#	47
18] Ethylbenzene	13.035	91	1306	72.81	ug/L		95
19] m&p-Xylene	13.226	91	2083	148.40	ug/L		93
20] o-Xylene	13.846	91	1026	69.37	ug/L		88
21] 1,1,2,2-Tetrachloroethane	14.943	83	407	59.29	ug/L		85
22] 1,3,5-Trimethylbenzene	15.409	105	1470	84.92	ug/L		86
23] 1,2,4-Trimethylbenzene	15.950	105	1255	71.27	ug/L		99
25) 2-Fluorotoluene SCAN	11.032	109	40238	5567.39	ug/L		82
26) 1,1-Dichloroethene SCAN	2.973	61	58	36.21	ug/L	#	31
27) trans-1,2-Dichloroethe...	4.308	61	87	55.43	ug/L	#	10
28) 1,1-Dichloroethane SCAN	5.084	63	168	69.96	ug/L	#	49
29) cis-1,2-Dichloroethene...	5.728	61	192	101.85	ug/L	#	50
30) Chloroform SCAN	6.675	83	189	83.10	ug/L	#	5
31) 1,1,1-Trichloroethane ...	6.687	97	427	149.60	ug/L	#	29
32) Carbon tetrachloride SCAN	6.808	117	501	244.04	ug/L	#	38
33) Benzene SCAN	7.550	78	1700	273.18	ug/L	#	70
34) 1,2-Dichloroethane SCAN	8.018	62	213	90.27	ug/L	#	1
35) Trichloroethene SCAN	8.285	130	78	49.89	ug/L	#	11
36) Toluene-d8 SCAN	10.538	98	31295	4931.67	ug/L		97
37) Toluene SCAN	10.654	91	621	87.50	ug/L	#	84
38) 1,1,2-Trichloroethane ...	11.273	97	355	163.33	ug/L	#	17
40) Chlorobenzene SCAN	12.677	112	137	24.56	ug/L	#	1
42) Ethylbenzene SCAN	13.225	91	1290	138.67	ug/L		87
43) m&p-Xylene SCAN	13.225	91	1290	85.21	ug/L	#	53
44) o-Xylene SCAN	13.868	91	406	49.53	ug/L	#	41
46) 1,3,5-Trimethylbenzene...	14.987	105	240	25.47	ug/L		74
47) 1,2,4-Trimethylbenzene...	15.949	105	562	59.17	ug/L	#	87

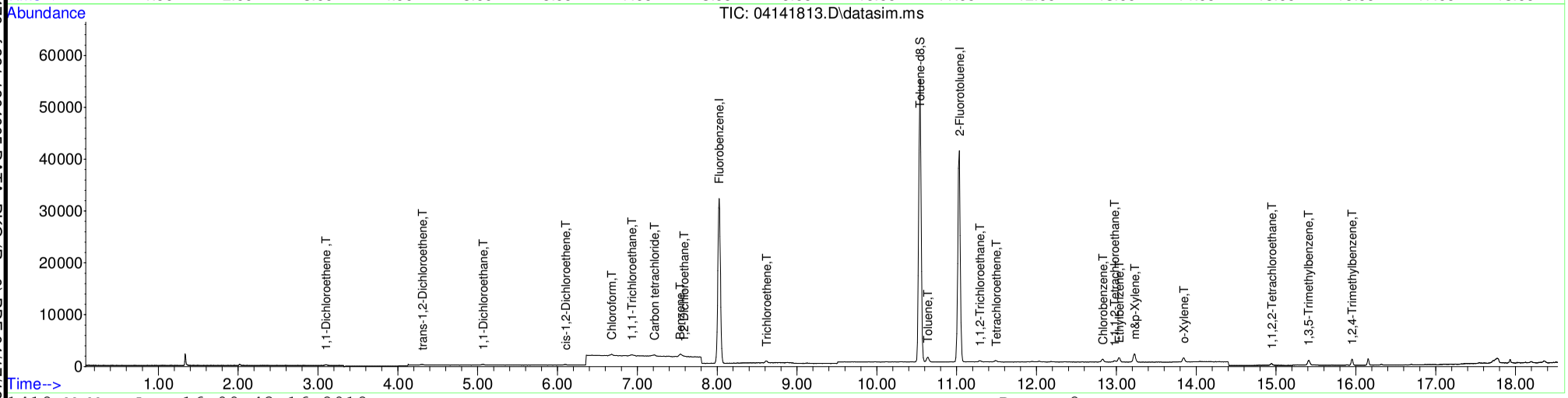
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141813.D
Acq On : 14 Apr 2018 15:36
InstName : AG5975C
Operator : RH
Sample : B18D036-MRL1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 16 09:38:21 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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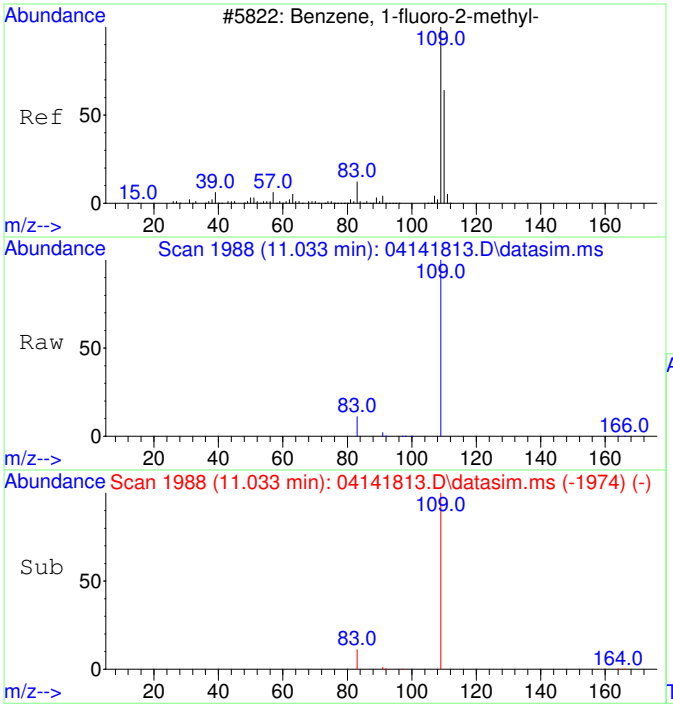
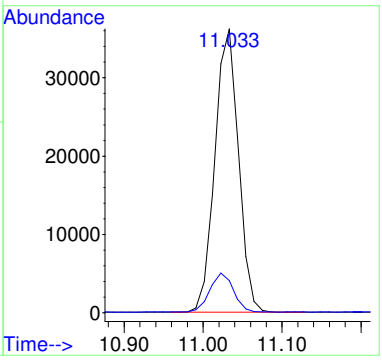
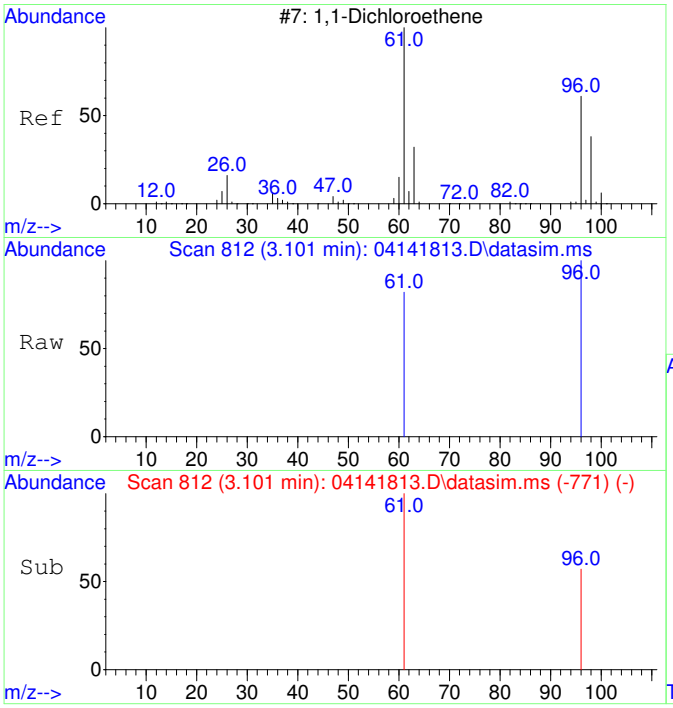


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:109 Resp: 74798

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

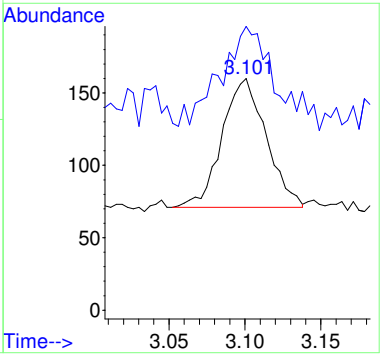


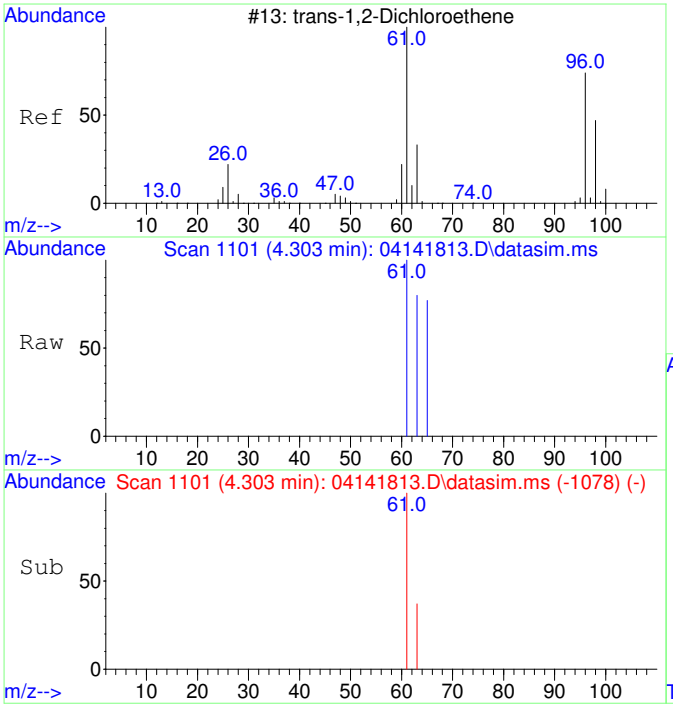


#2
1,1-Dichloroethene
Concen: 54.82 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. 0.003 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 180

Ion	Ratio	Lower	Upper
61	100		
96	195.0	26.1	86.1#

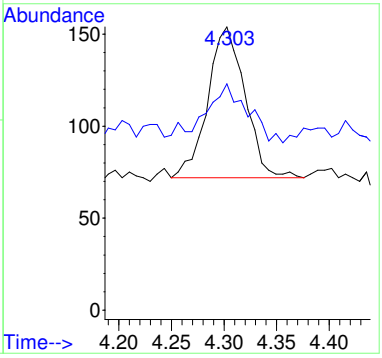


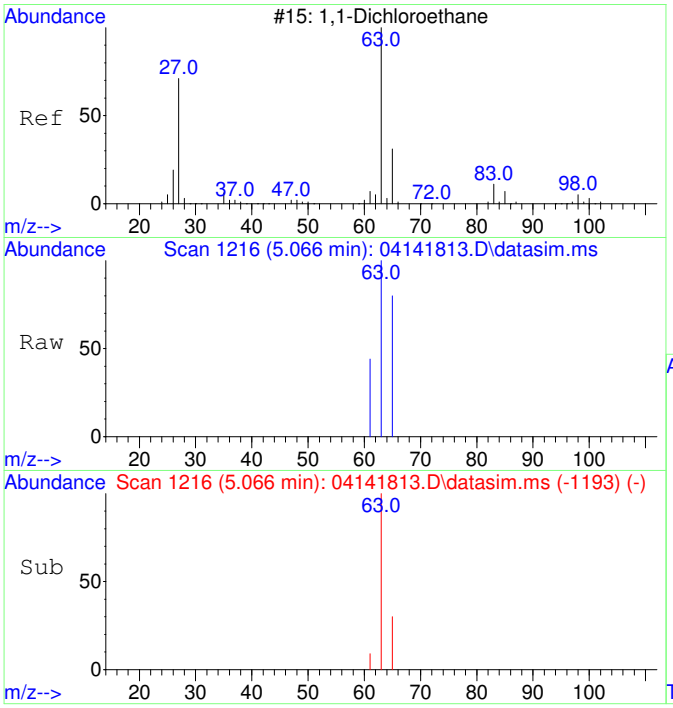


#3
trans-1,2-Dichloroethene
Concen: 60.21 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 202

Ion	Ratio	Lower	Upper
61	100		
63	40.1	2.0	62.0

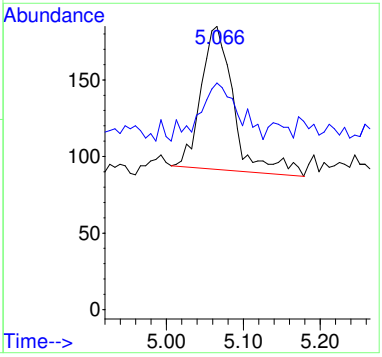


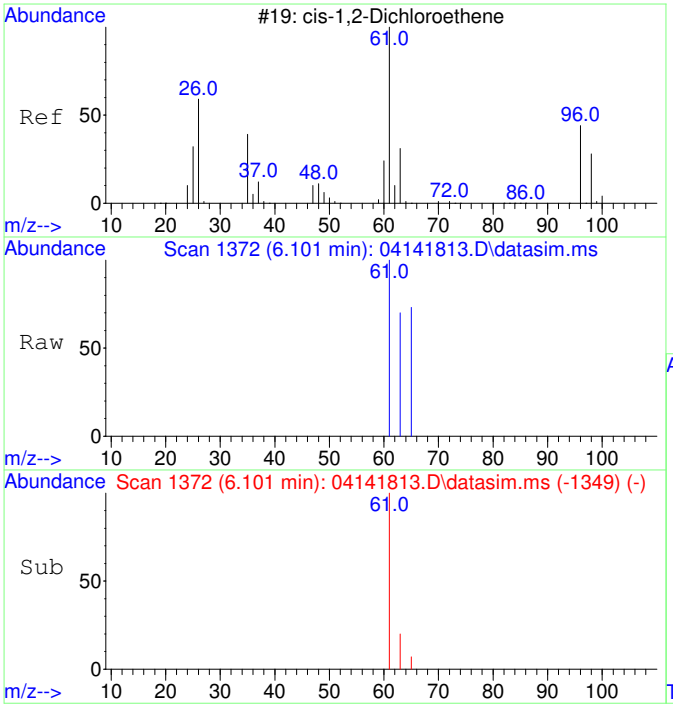


#4
1,1-Dichloroethane
Concen: 61.56 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 63 Resp: 275

Ion	Ratio	Lower	Upper
63	100		
65	30.5	1.8	61.8

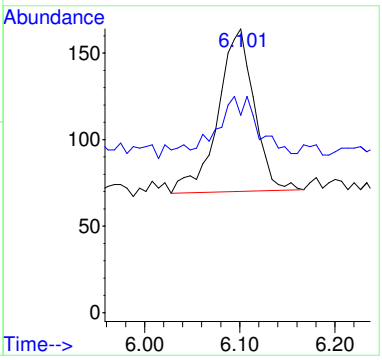


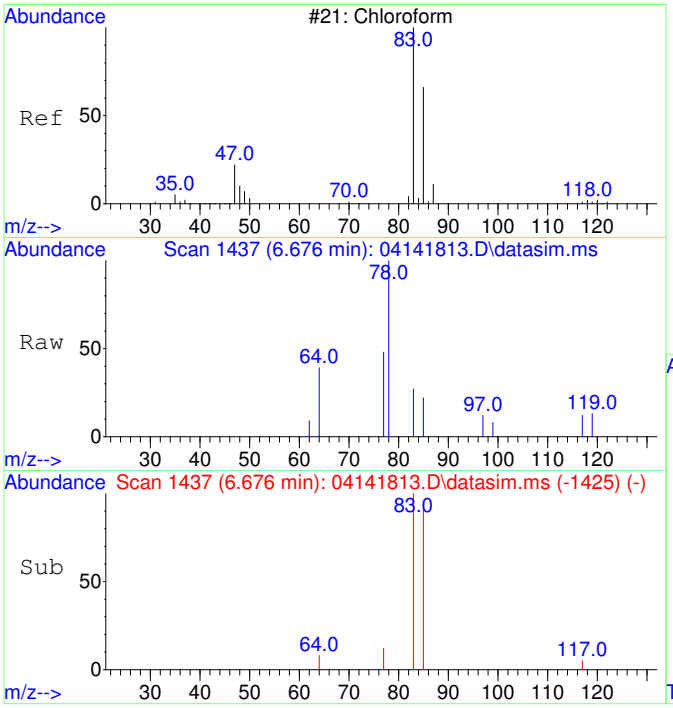


#5
cis-1,2-Dichloroethene
Concen: 60.01 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 248

Ion	Ratio	Lower	Upper
61	100		
63	48.8	2.0	62.0

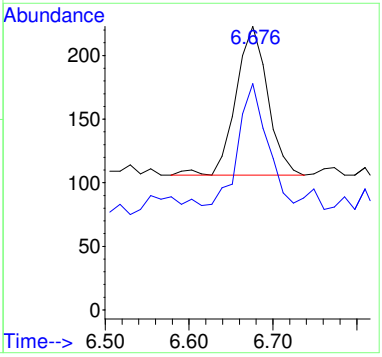


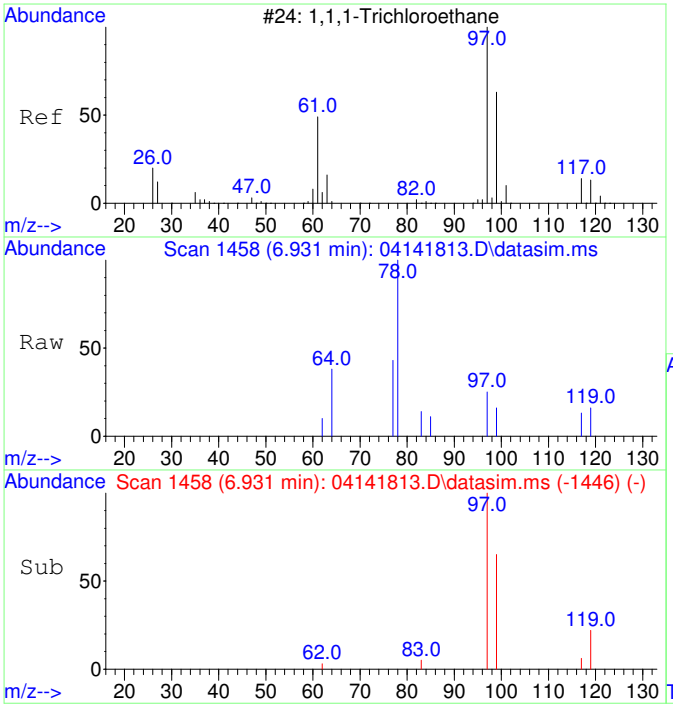


#6
Chloroform
Concen: 63.37 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 83 Resp: 308

Ion	Ratio	Lower	Upper
83	100		
85	76.6	34.2	94.2

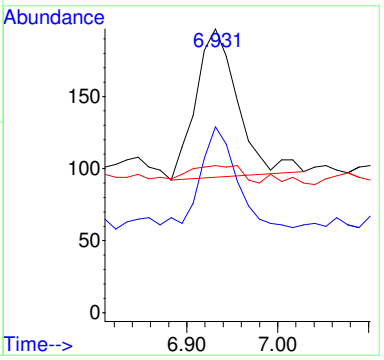


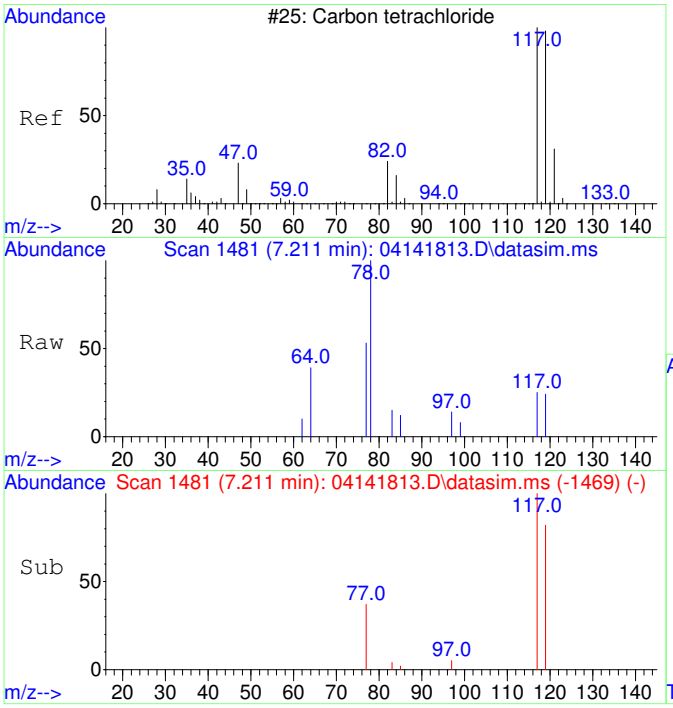


#7
1,1,1-Trichloroethane
Concen: 69.75 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 97 Resp: 331

Ion	Ratio	Lower	Upper
97	100		
99	58.9	34.5	94.5
117	14.2	0.0	42.6

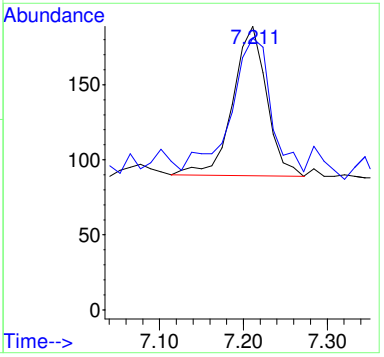


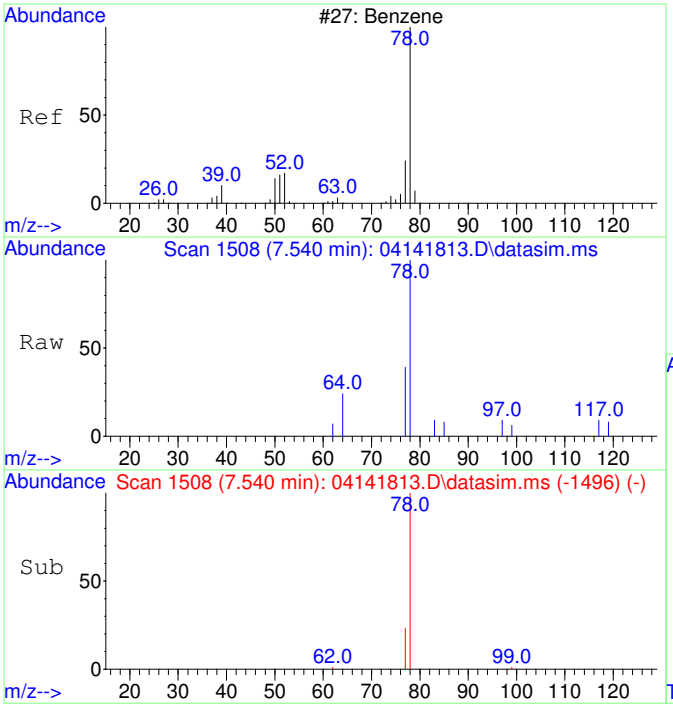


#8
Carbon tetrachloride
Concen: 64.21 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:117 Resp: 278

Ion	Ratio	Lower	Upper
117	100		
119	104.0	64.5	124.5

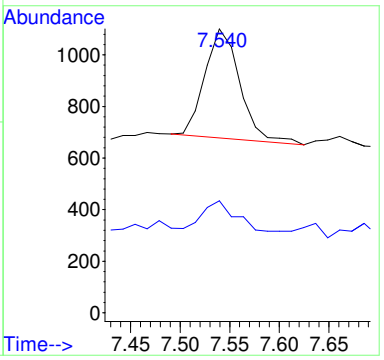


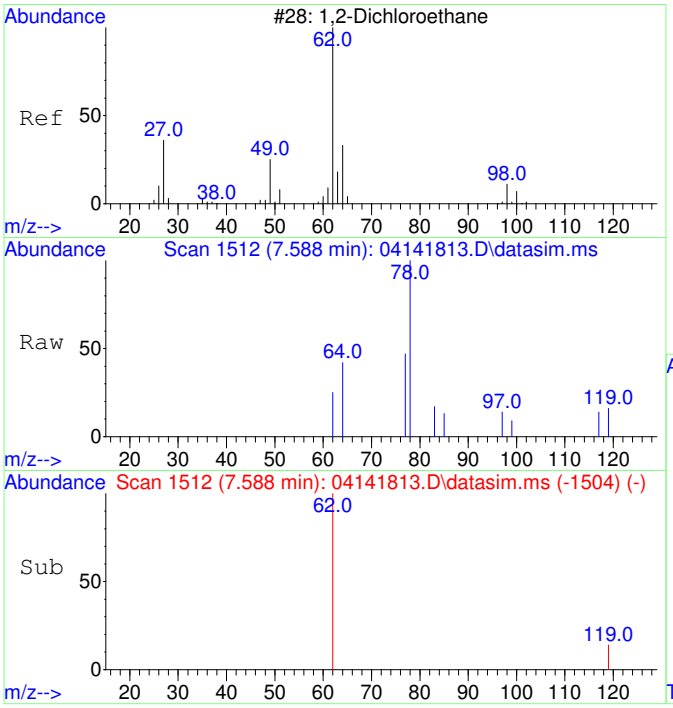


#9
Benzene
Concen: 86.05 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 78 Resp: 1031

Ion	Ratio	Lower	Upper
78	100		
77	25.8	0.0	53.6

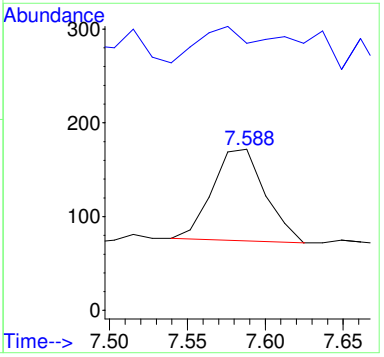


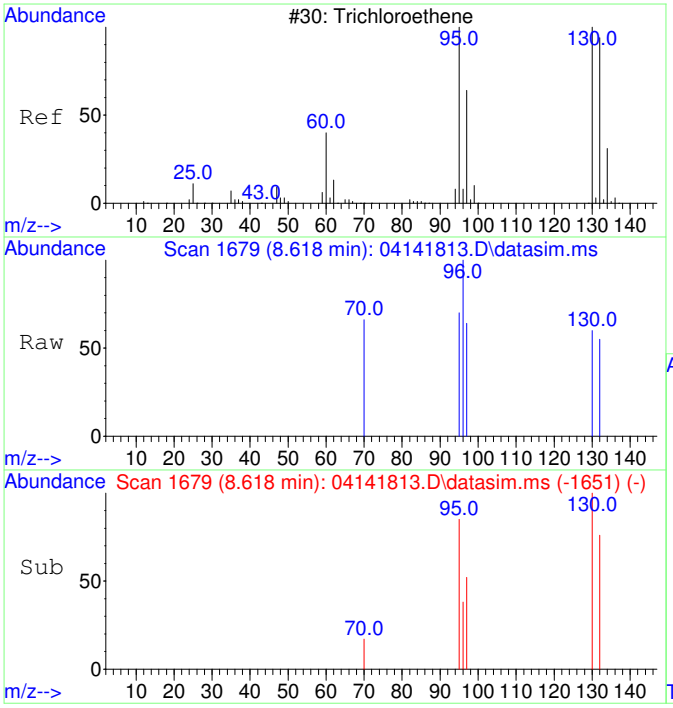


#10
1,2-Dichloroethane
Concen: 54.82 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 62 Resp: 229

Ion	Ratio	Lower	Upper
62	100		
64	43.7	1.8	61.8

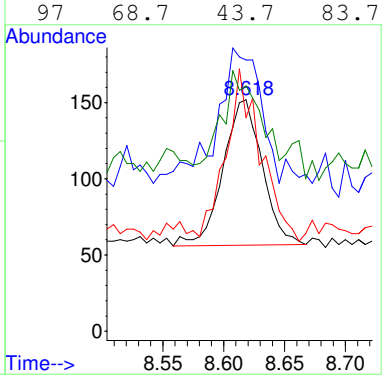


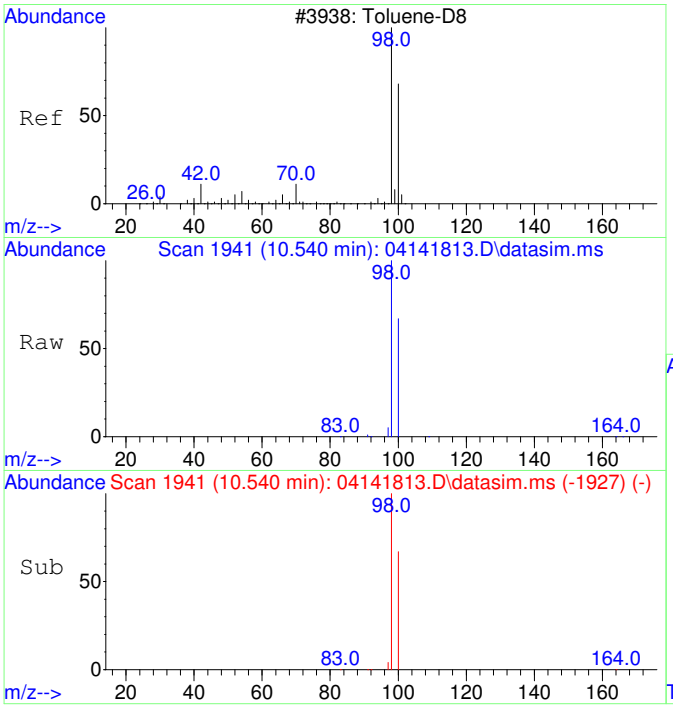


#11
Trichloroethene
Concen: 64.82 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:130 Resp: 214

Ion	Ratio	Lower	Upper
130	100		
95	103.7	68.8	128.8
132	107.0	78.6	118.6
97	68.7	43.7	83.7

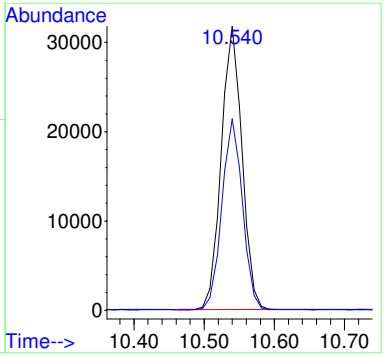


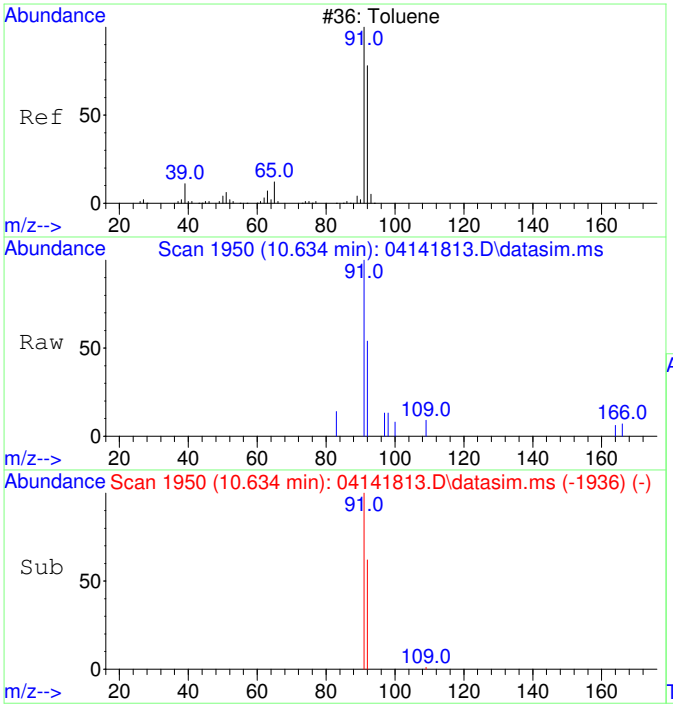


#12
Toluene-d8
Concen: 5202.06 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 98 Resp: 65310

Ion	Ratio	Lower	Upper
98	100		
100	66.6	36.9	96.9

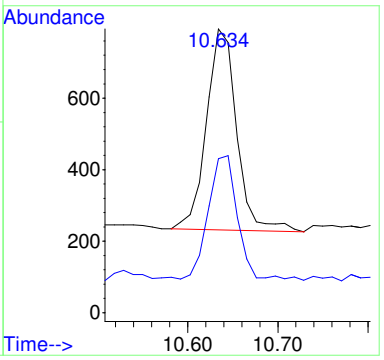


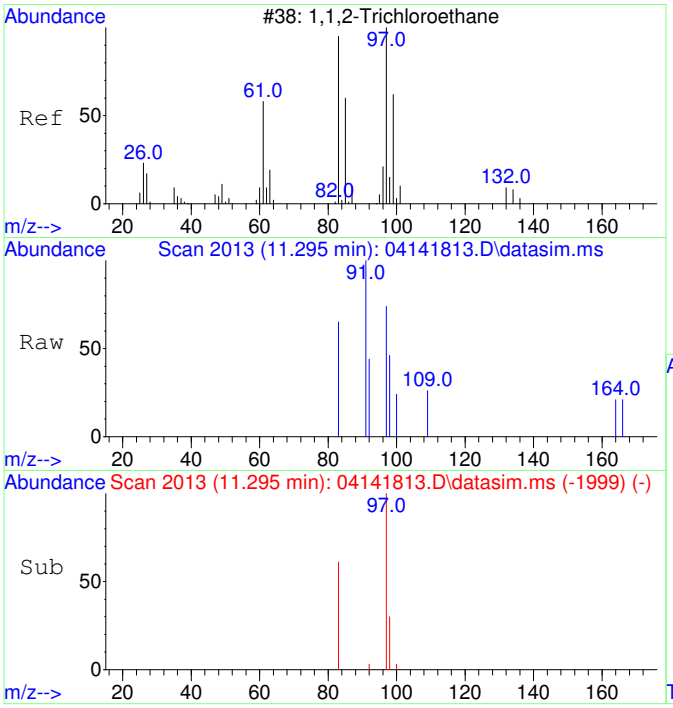


#13
Toluene
Concen: 82.65 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1306

Ion	Ratio	Lower	Upper
91	100		
92	57.0	28.8	88.8

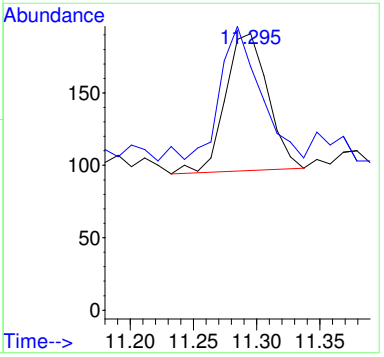


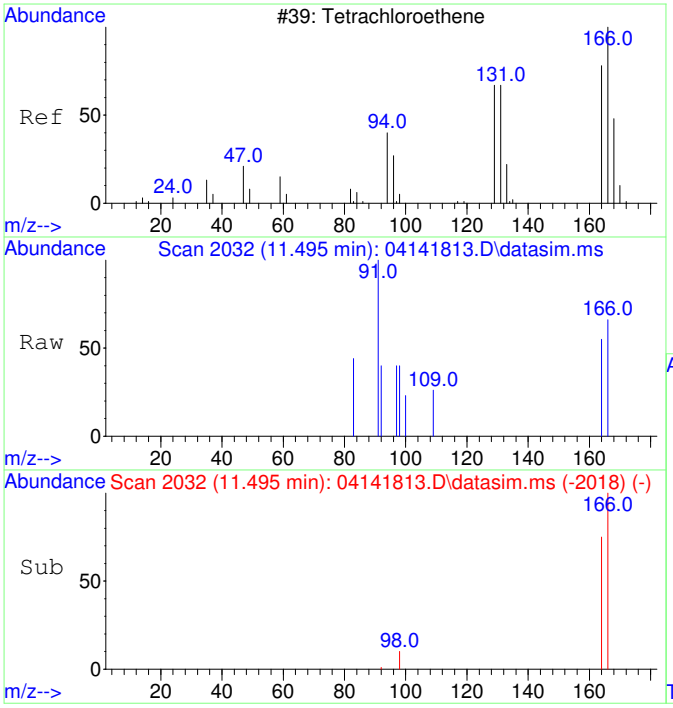


#14
1,1,2-Trichloroethane
Concen: 63.59 ug/L
RT: 11.295 min Scan# 2013
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 97 Resp: 222

Ion	Ratio	Lower	Upper
97	100		
83	96.8	54.3	114.3

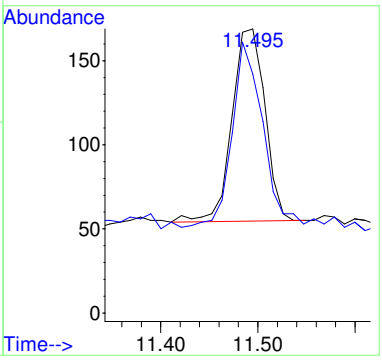


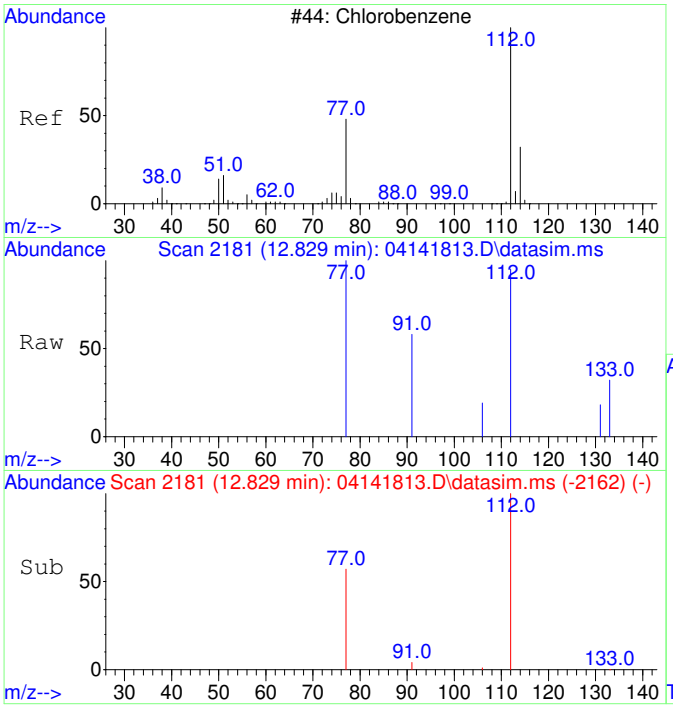


#15
Tetrachloroethene
Concen: 62.34 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:166 Resp: 270

Ion	Ratio	Lower	Upper
166	100		
164	92.2	48.0	108.0

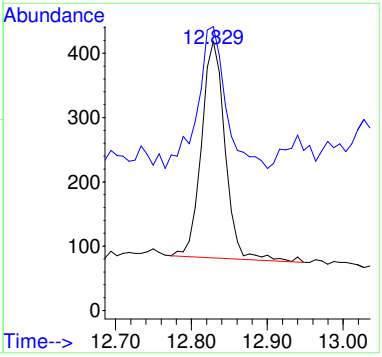


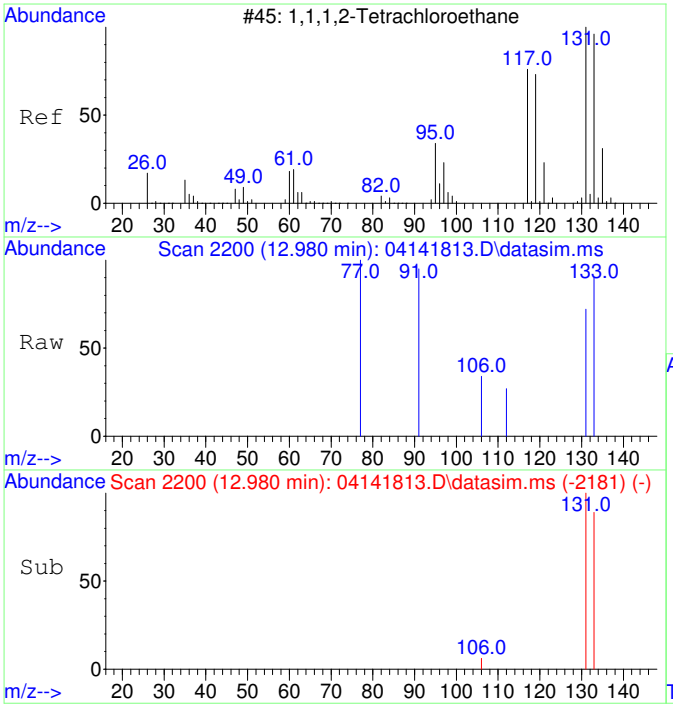


#16
Chlorobenzene
Concen: 65.20 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:112 Resp: 726

Ion	Ratio	Lower	Upper
112	100		
77	77.8	29.4	89.4

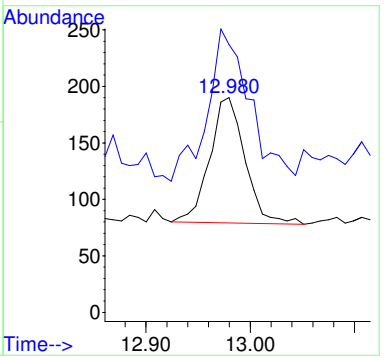


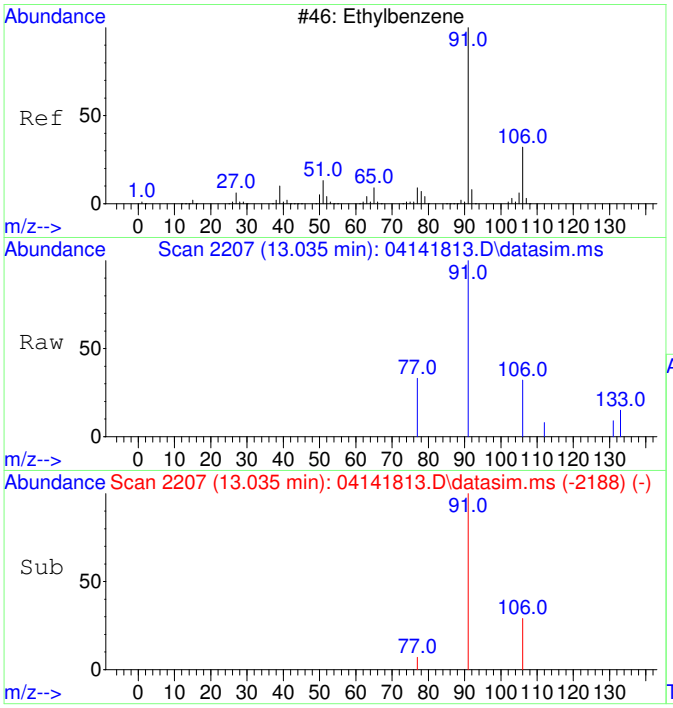


#17
1,1,1,2-Tetrachloroethane
Concen: 69.87 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:131 Resp: 259

Ion	Ratio	Lower	Upper
131	100		
133	146.3	65.1	125.1#

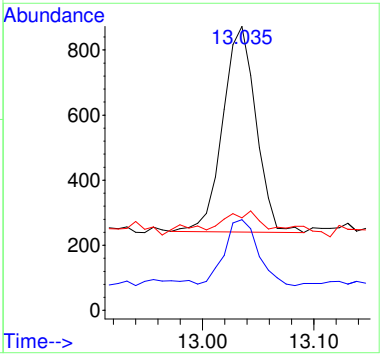


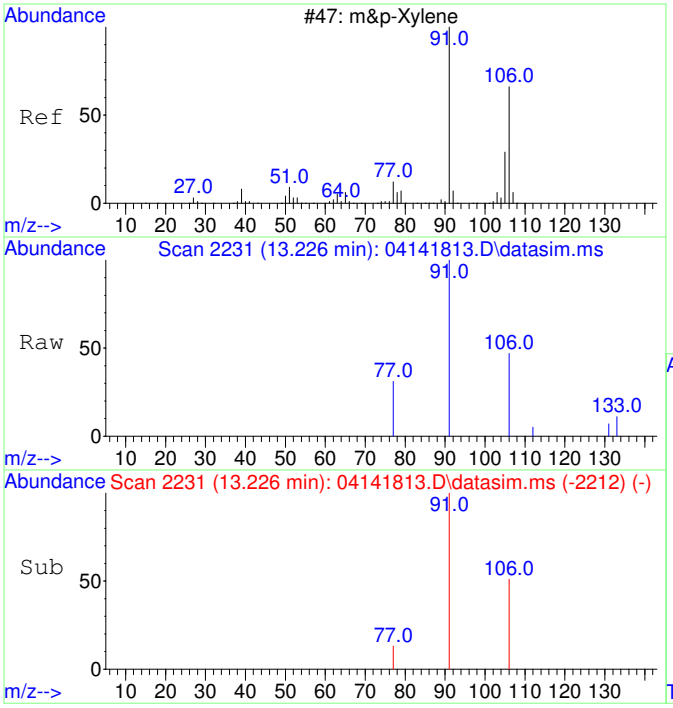


#18
Ethylbenzene
Concen: 72.81 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1306

Ion	Ratio	Lower	Upper
91	100		
106	32.8	1.8	61.8
77	14.6	0.0	38.7

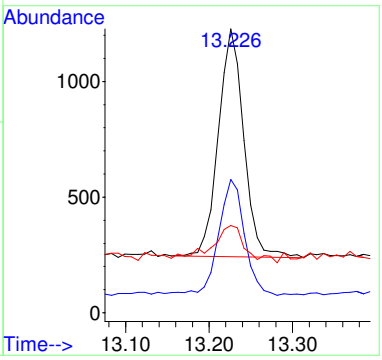


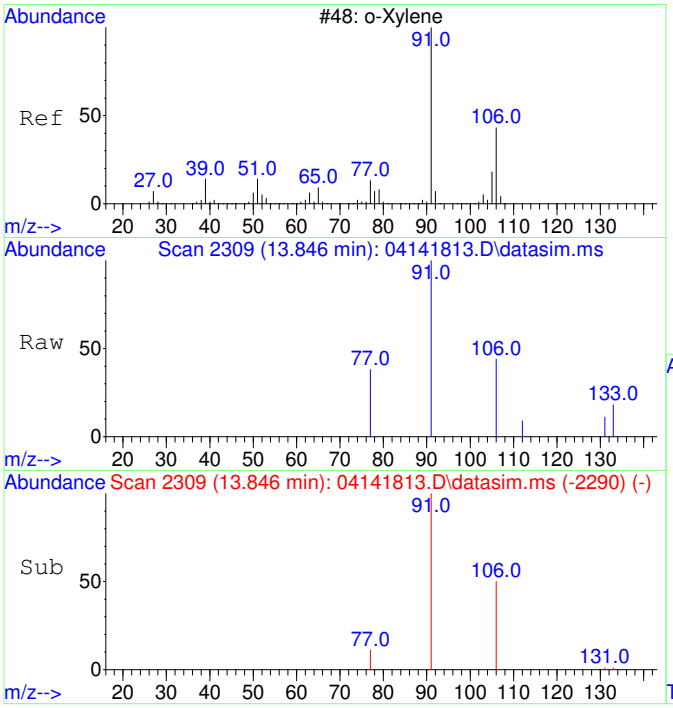


#19
m&p-Xylene
Concen: 148.40 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 2083

Ion	Ratio	Lower	Upper
91	100		
106	51.5	20.0	80.0
77	22.8	0.0	43.4

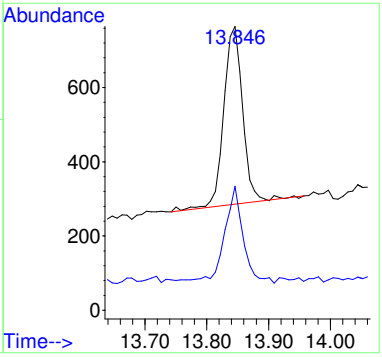


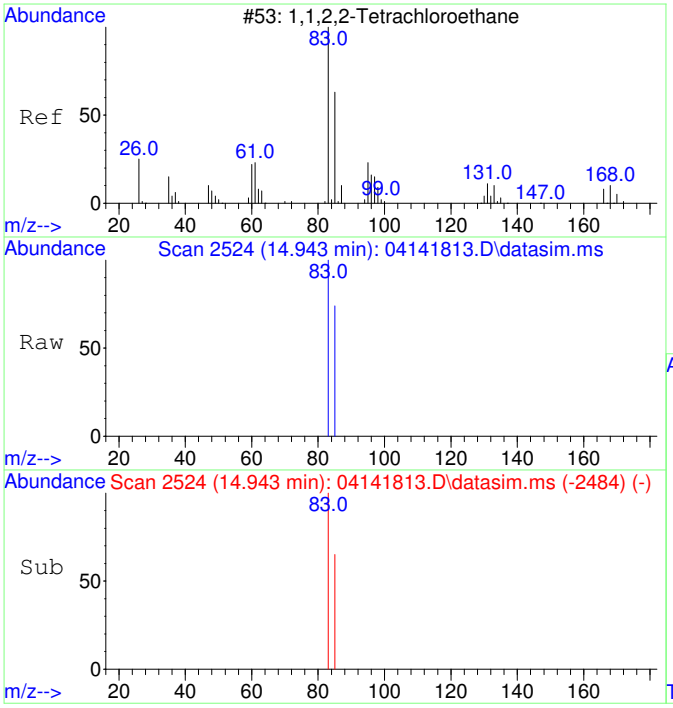


#20
o-Xylene
Concen: 69.37 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1026

Ion	Ratio	Lower	Upper
91	100		
106	54.8	16.9	76.9

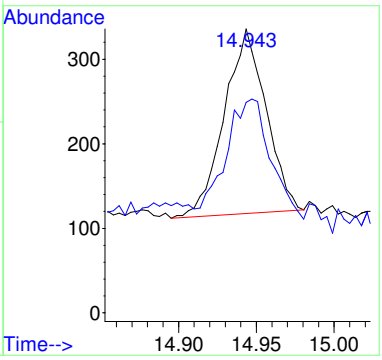


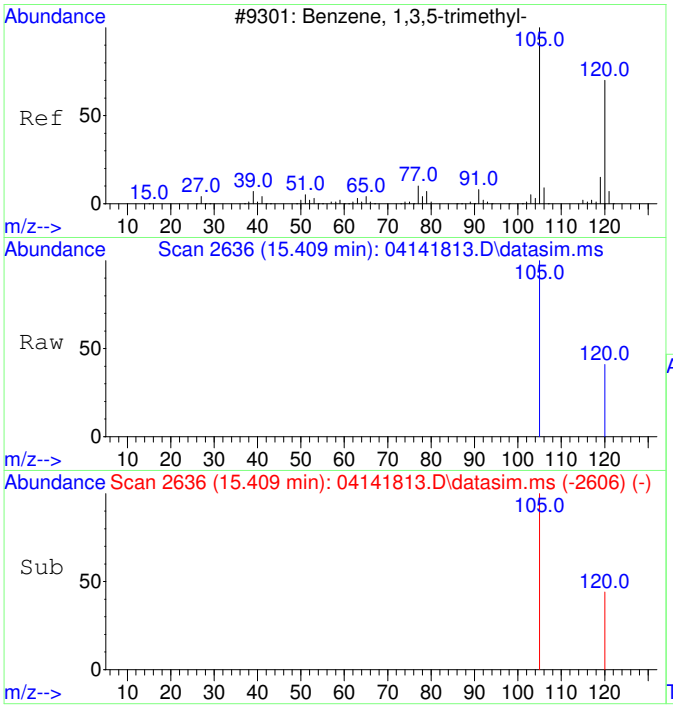


#21
1,1,2,2-Tetrachloroethane
Concen: 59.29 ug/L
RT: 14.943 min Scan# 2524
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 83 Resp: 407

Ion	Ratio	Lower	Upper
83	100		
85	75.9	34.3	94.3

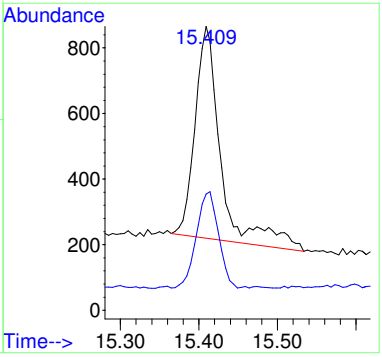


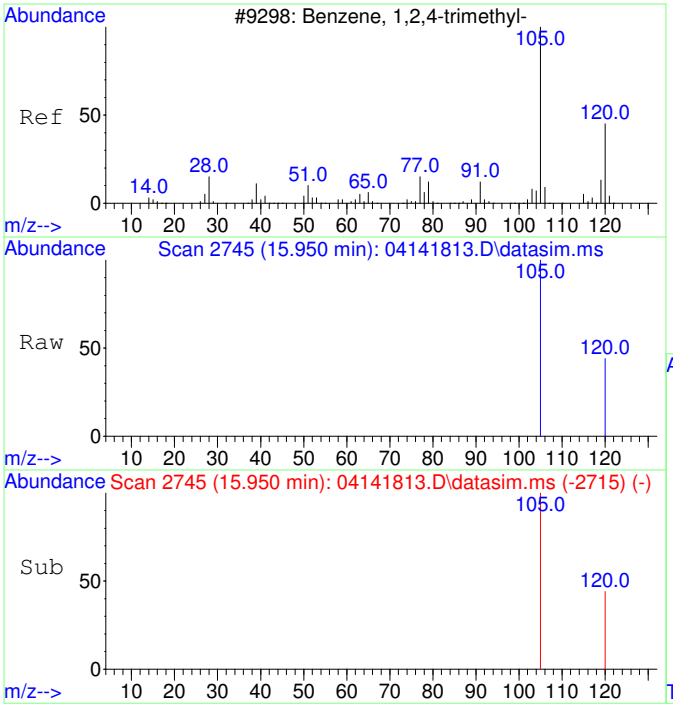


#22
1,3,5-Trimethylbenzene
Concen: 84.92 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:105 Resp: 1470

Ion	Ratio	Lower	Upper
105	100		
120	38.7	18.1	78.1

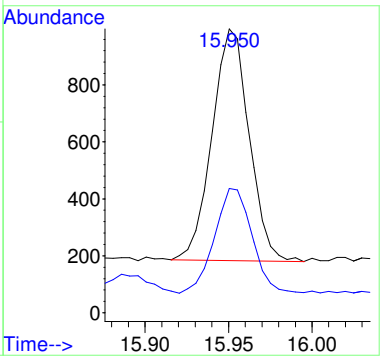


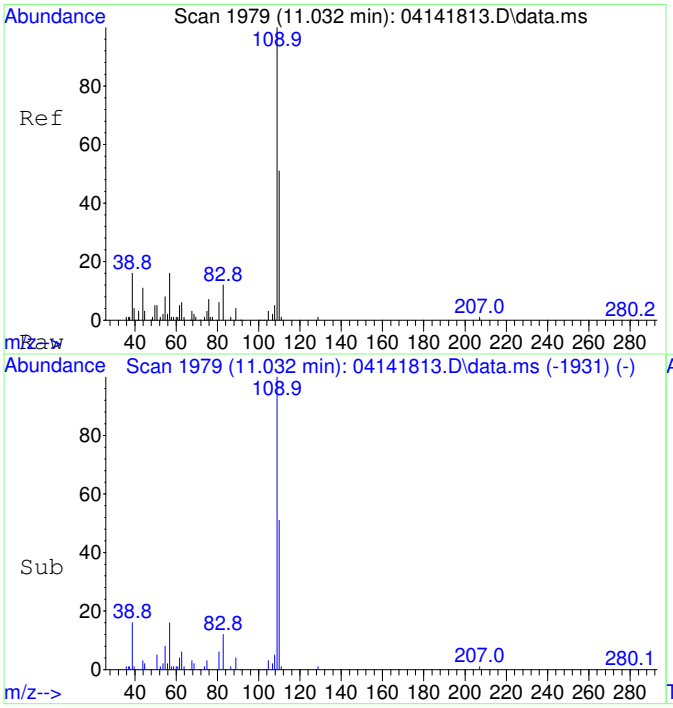


#23
1,2,4-Trimethylbenzene
Concen: 71.27 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:105 Resp: 1255

Ion	Ratio	Lower	Upper
105	100		
120	45.3	14.5	74.5

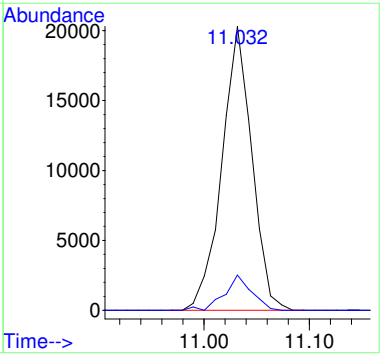


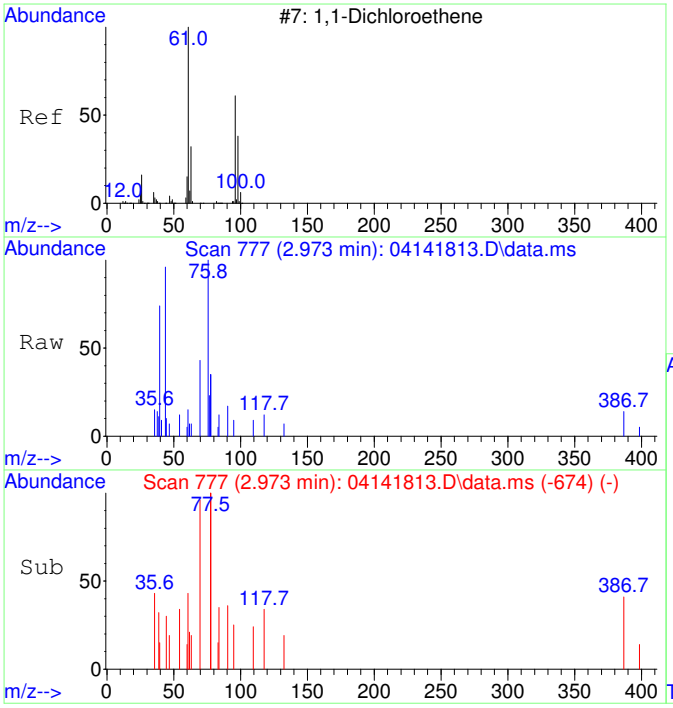


#25
2-Fluorotoluene SCAN
Concen: 5567.39 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:109 Resp: 40238

Ion	Ratio	Lower	Upper
109	100		
83	11.3	0.0	49.2

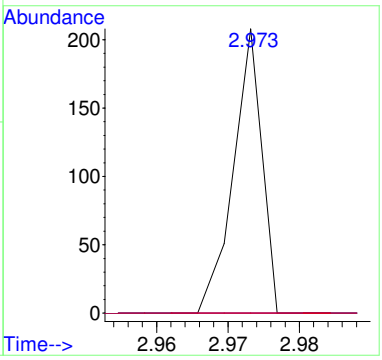


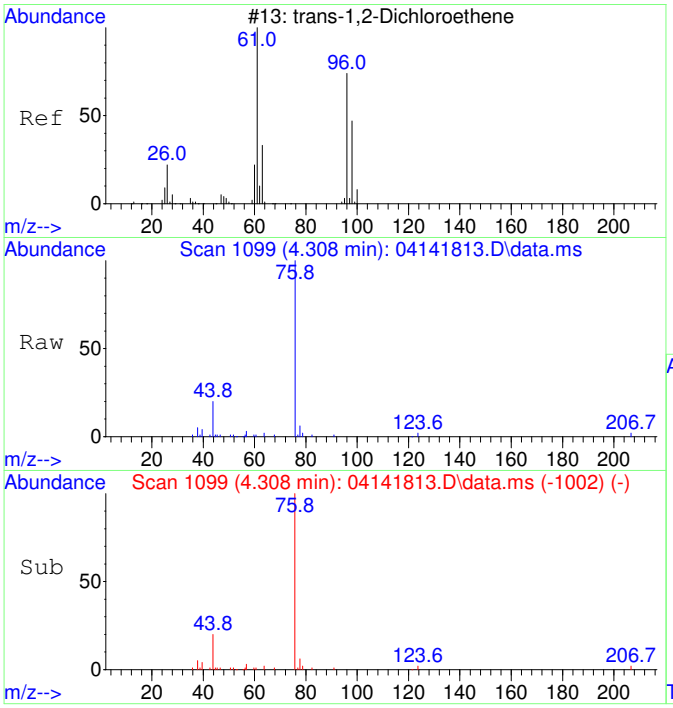


#26
1,1-Dichloroethene SCAN
Concen: 36.21 ug/L
RT: 2.973 min Scan# 777
Delta R.T. -0.119 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 58

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.6	81.6#
98	0.0	7.5	67.5#

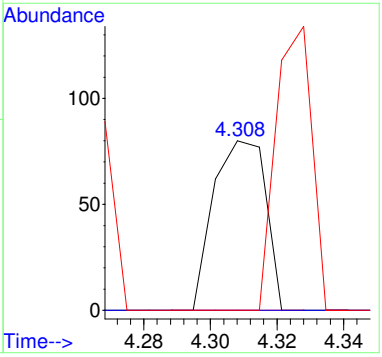


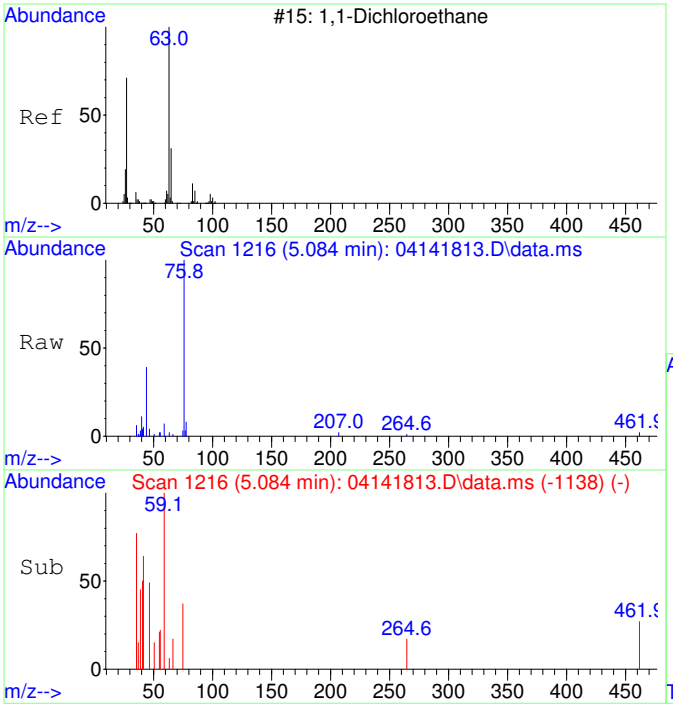


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.43 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 87

Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.8	111.8#
98	114.9	22.7	82.7#

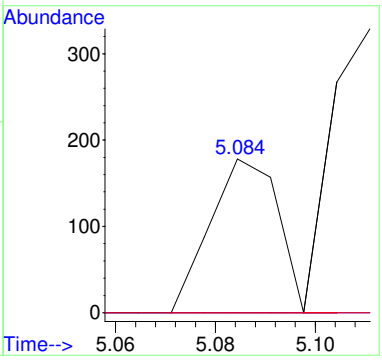


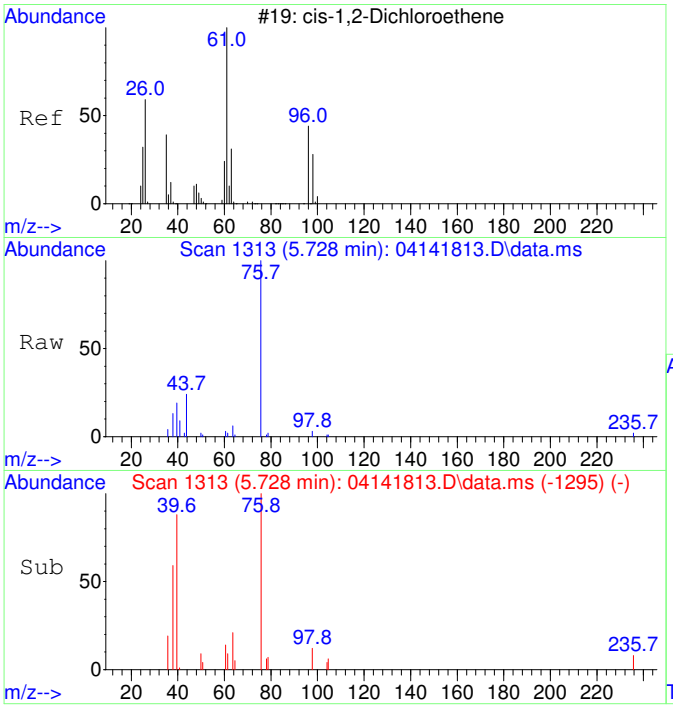


#28
1,1-Dichloroethane SCAN
Concen: 69.96 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 63 Resp: 168

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	0.0	0.0	38.2

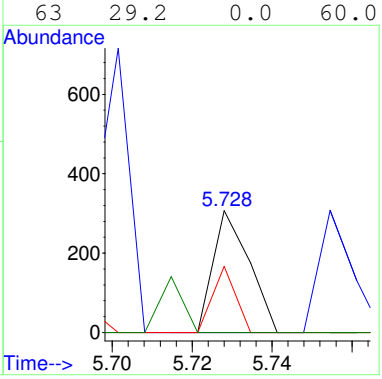


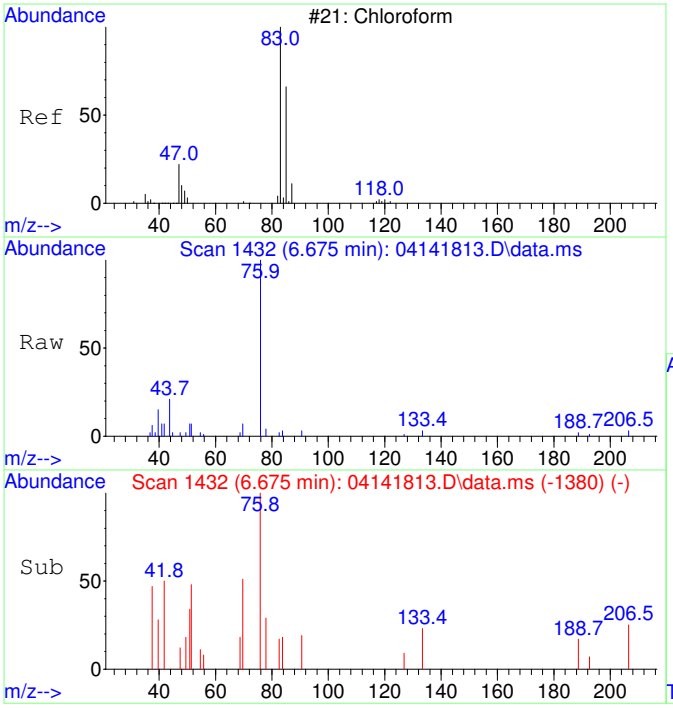


#29
cis-1,2-Dichloroethene SCAN
Concen: 101.85 ug/L
RT: 5.728 min Scan# 1313
Delta R.T. -0.378 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 61 Resp: 192

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.4	109.4#
98	34.9	9.5	69.5
63	29.2	0.0	60.0

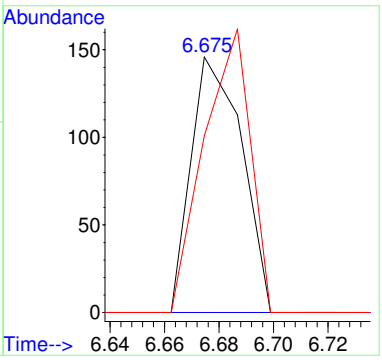


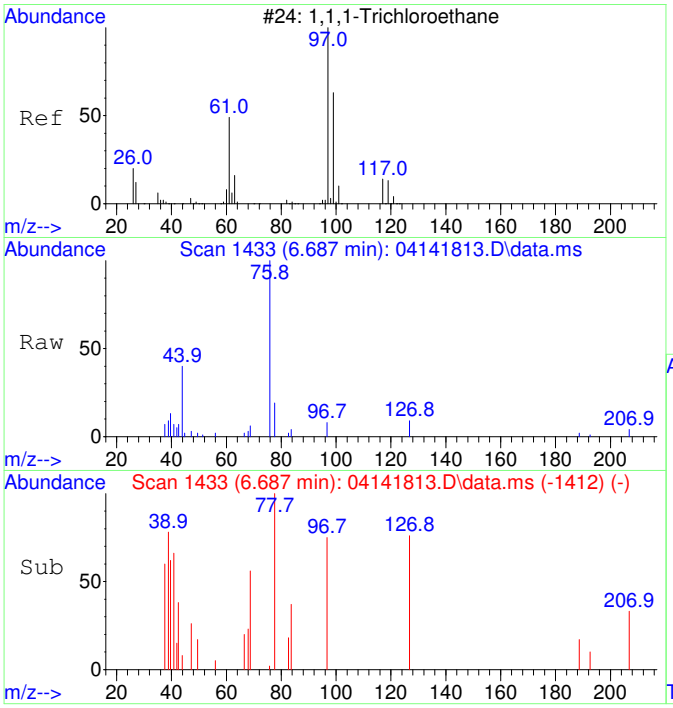


#30
Chloroform SCAN
Concen: 83.10 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 83 Resp: 189

Ion	Ratio	Lower	Upper
83	100		
85	0.0	47.8	107.8#
47	101.6	8.2	68.2#

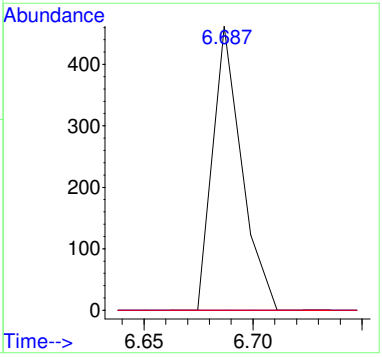


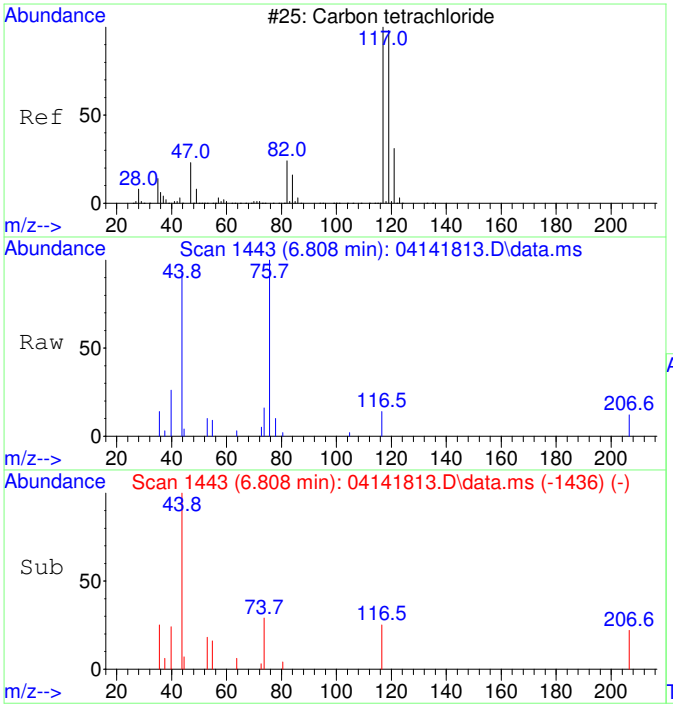


#31
1,1,1-Trichloroethane SCAN
Concen: 149.60 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. -0.244 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 97 Resp: 427

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

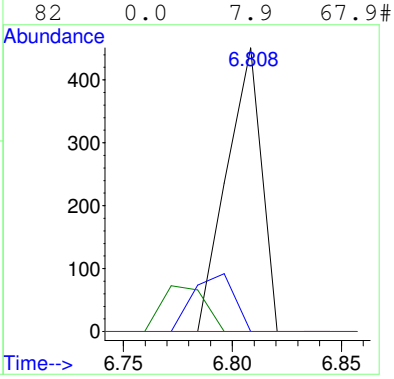


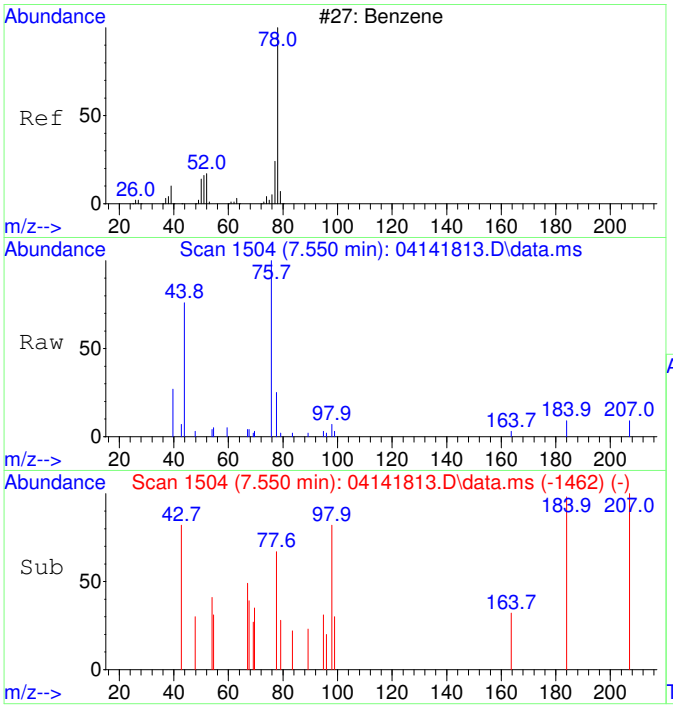


#32
Carbon tetrachloride SCAN
Concen: 244.04 ug/L
RT: 6.808 min Scan# 1443
Delta R.T. -0.414 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:117 Resp: 501

Ion	Ratio	Lower	Upper
117	100		
119	24.2	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

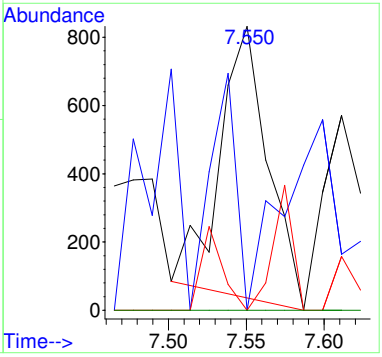


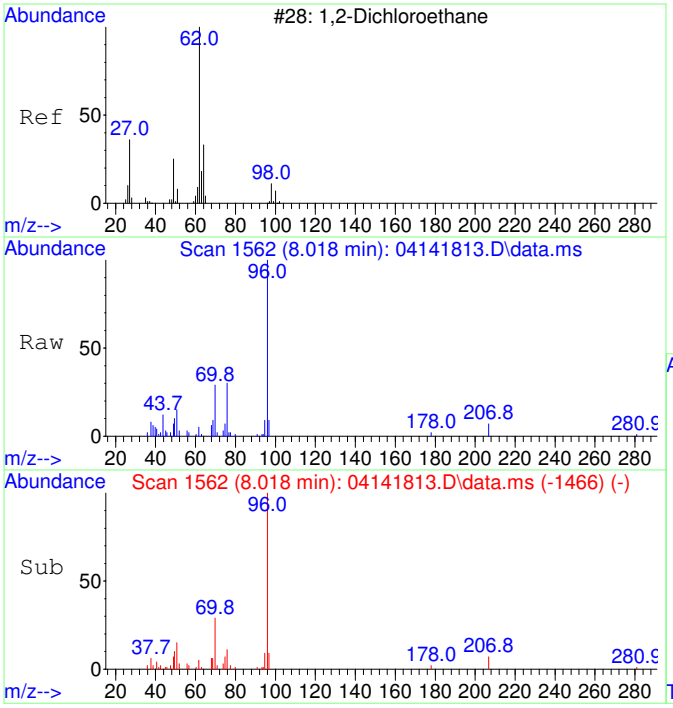


#33
Benzene SCAN
Concen: 273.18 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 78 Resp: 1700

Ion	Ratio	Lower	Upper
78	100		
77	47.2	5.4	65.4
51	0.0	0.0	47.2
52	0.0	0.0	47.4

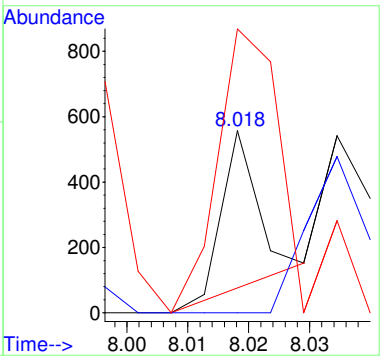


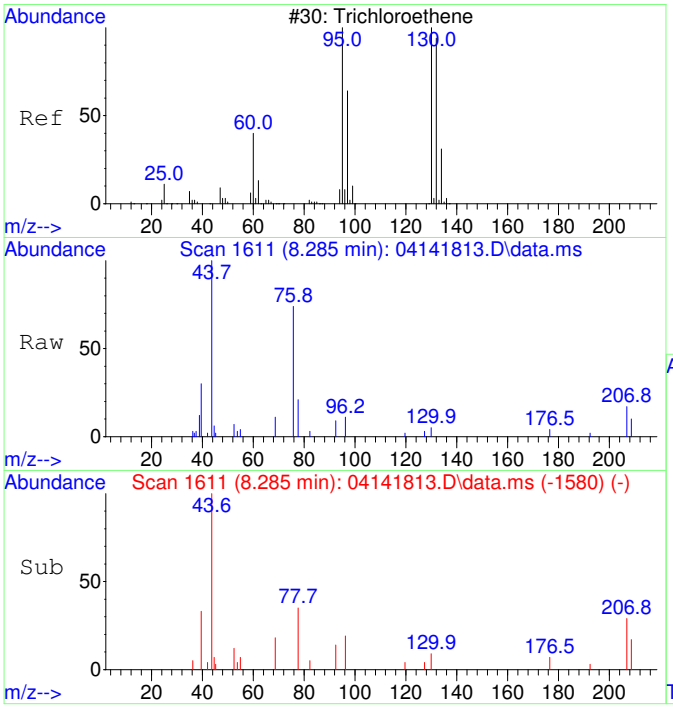


#34
1,2-Dichloroethane SCAN
Concen: 90.27 ug/L
RT: 8.018 min Scan# 1562
Delta R.T. 0.431 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 62 Resp: 213

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	325.8	1.2	61.2#

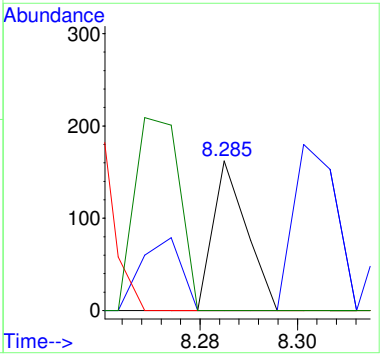


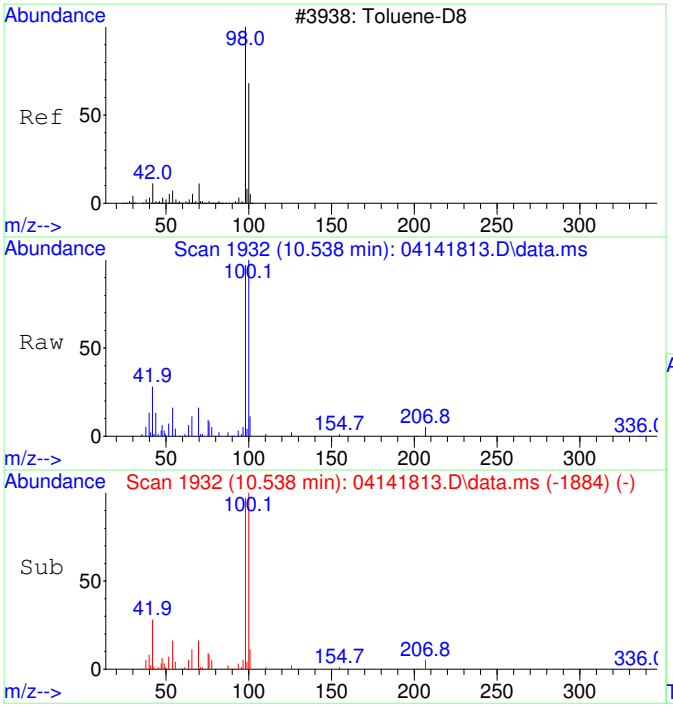


#35
Trichloroethene SCAN
Concen: 49.89 ug/L
RT: 8.285 min Scan# 1611
Delta R.T. -0.332 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:130 Resp: 78

Ion	Ratio	Lower	Upper
130	100		
95	179.5	71.3	131.3#
132	0.0	75.1	135.1#
97	0.0	41.3	101.3#

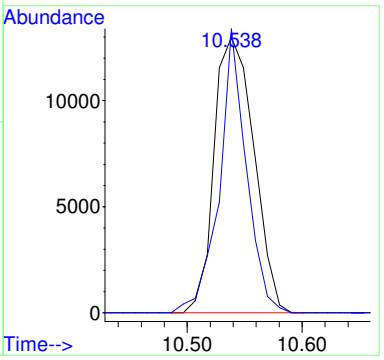


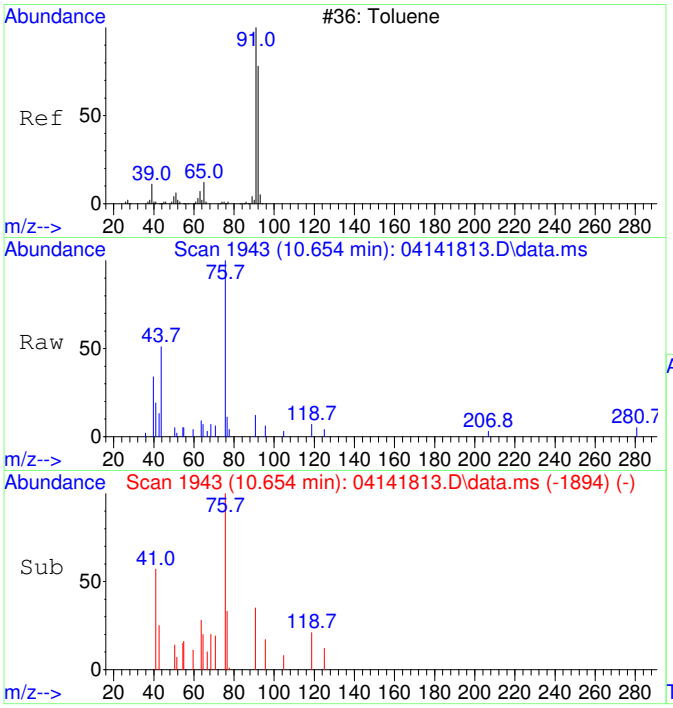


#36
Toluene-d8 SCAN
Concen: 4931.67 ug/L
RT: 10.538 min Scan# 1932
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 98 Resp: 31295

Ion	Ratio	Lower	Upper
98	100		
100	70.0	37.3	97.3

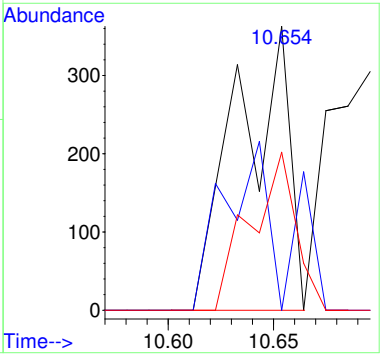


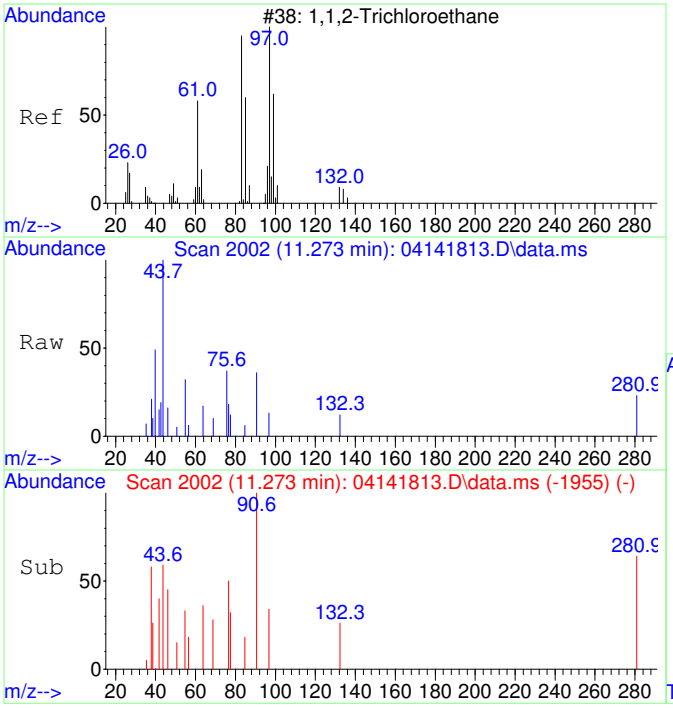


#37
Toluene SCAN
Concen: 87.50 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 621

Ion	Ratio	Lower	Upper
91	100		
92	68.0	39.1	99.1
65	49.0	0.0	43.8#

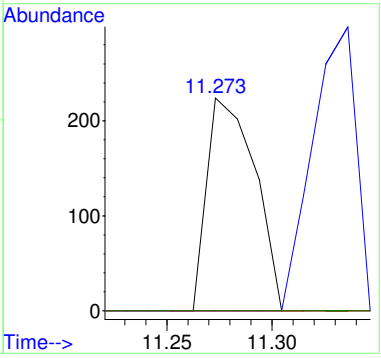


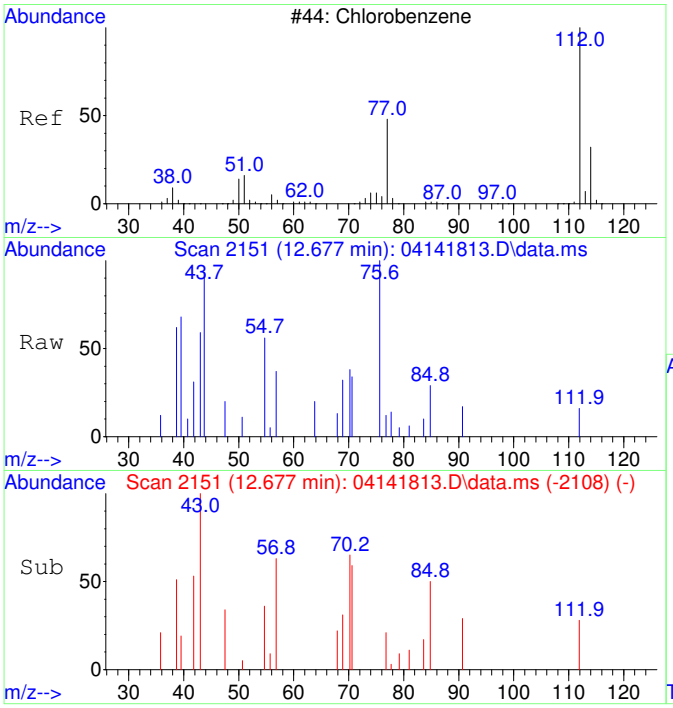


#38
1,1,2-Trichloroethane SCAN
Concen: 163.33 ug/L
RT: 11.273 min Scan# 2002
Delta R.T. -0.011 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 97 Resp: 355

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

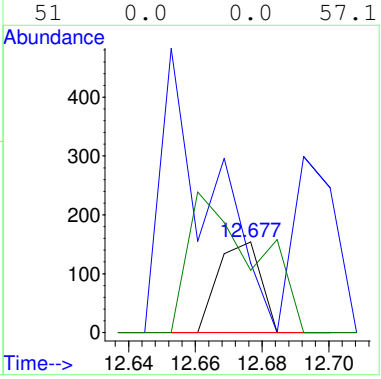


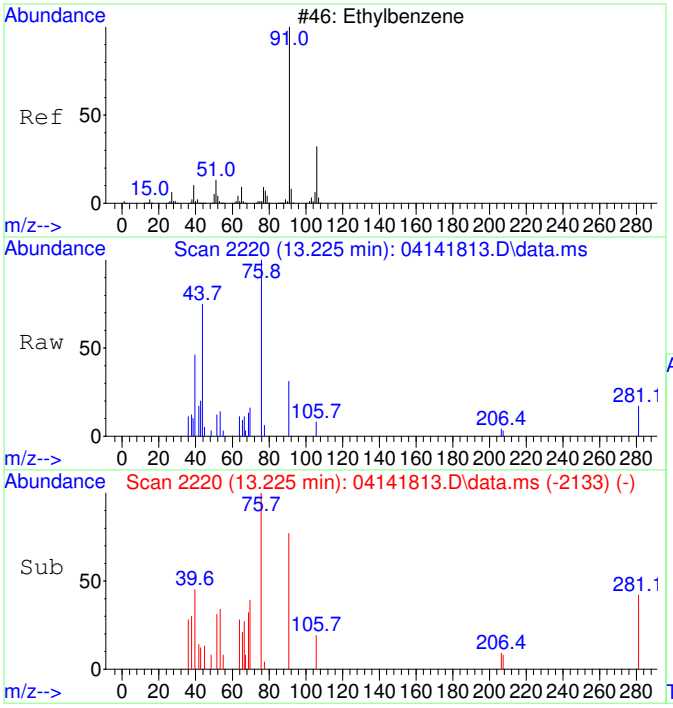


#40
Chlorobenzene SCAN
Concen: 24.56 ug/L
RT: 12.677 min Scan# 2151
Delta R.T. -0.159 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:112 Resp: 137

Ion	Ratio	Lower	Upper
112	100		
77	189.8	39.7	99.7#
114	0.0	1.2	61.2#
51	0.0	0.0	57.1

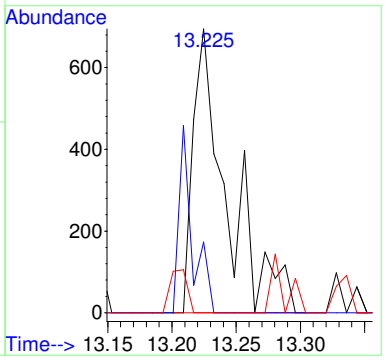


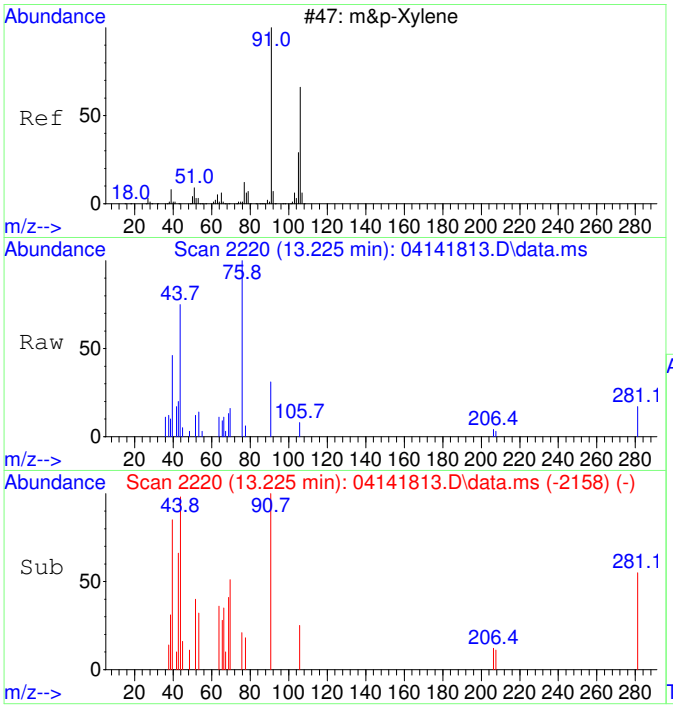


#42
Ethylbenzene SCAN
Concen: 138.67 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. 0.190 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1290

Ion	Ratio	Lower	Upper
91	100		
106	25.8	1.8	61.8
51	7.7	0.0	45.4

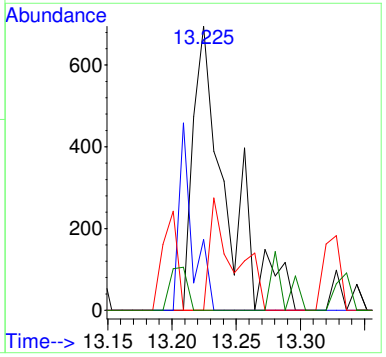


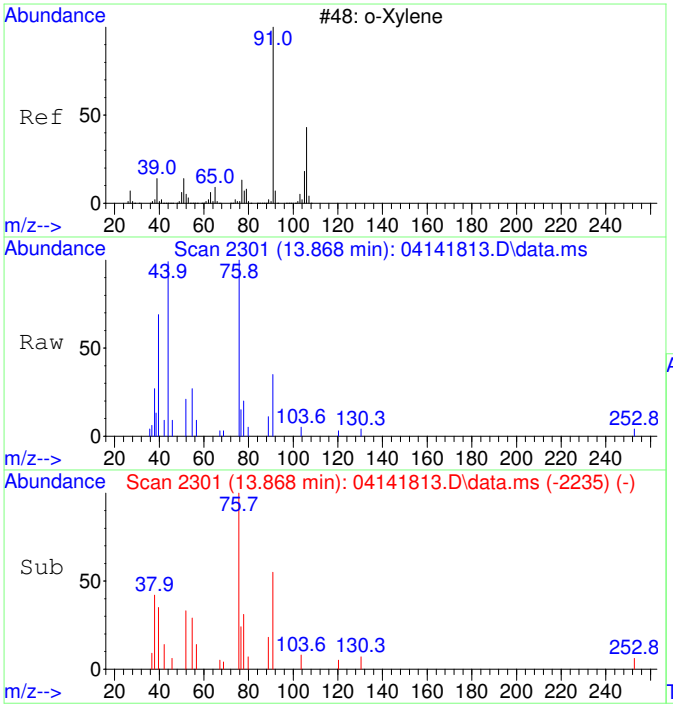


#43
m&p-Xylene SCAN
Concen: 85.21 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 1290

Ion	Ratio	Lower	Upper
91	100		
106	0.0	14.6	74.6#
105	28.3	0.0	52.8
51	0.0	0.0	44.5

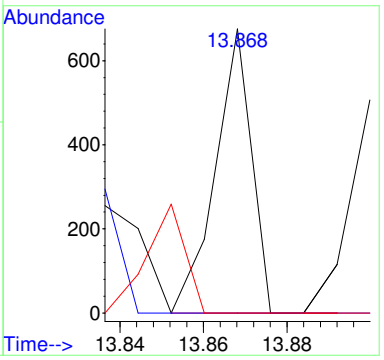


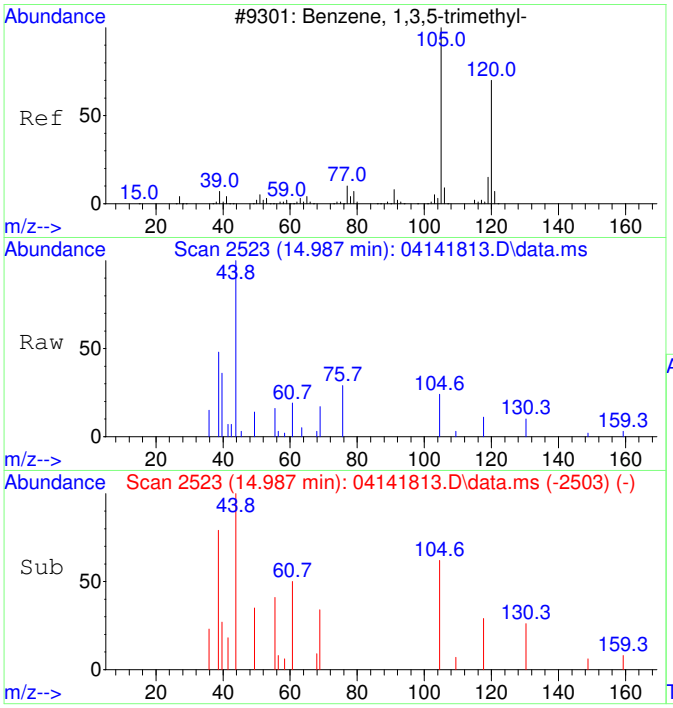


#44
o-Xylene SCAN
Concen: 49.53 ug/L
RT: 13.868 min Scan# 2301
Delta R.T. 0.024 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 91 Resp: 406

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	41.1	0.0	54.9

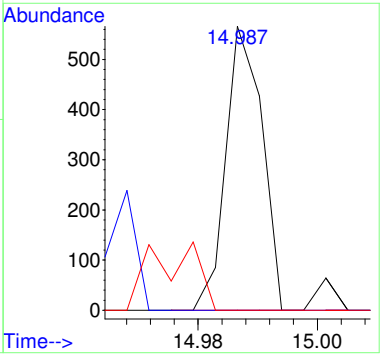


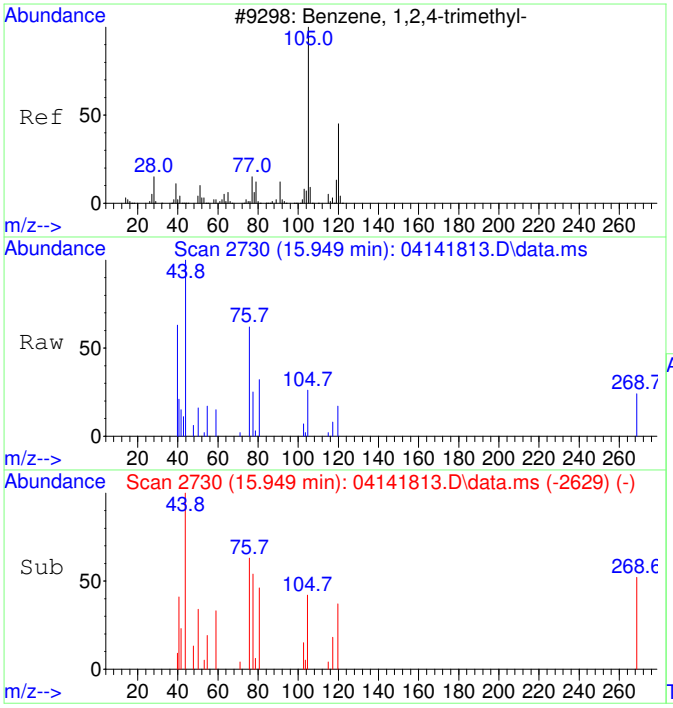


#46
1,3,5-Trimethylbenzene SCAN
Concen: 25.47 ug/L
RT: 14.987 min Scan# 2523
Delta R.T. -0.425 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:105 Resp: 240

Ion	Ratio	Lower	Upper
105	100		
120	32.1	16.1	76.1
119	30.0	0.0	41.8

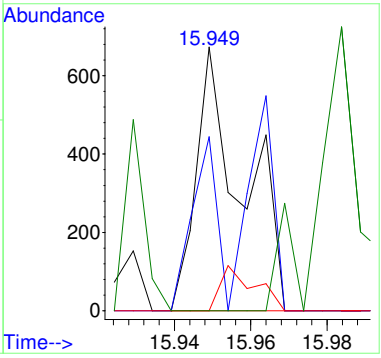


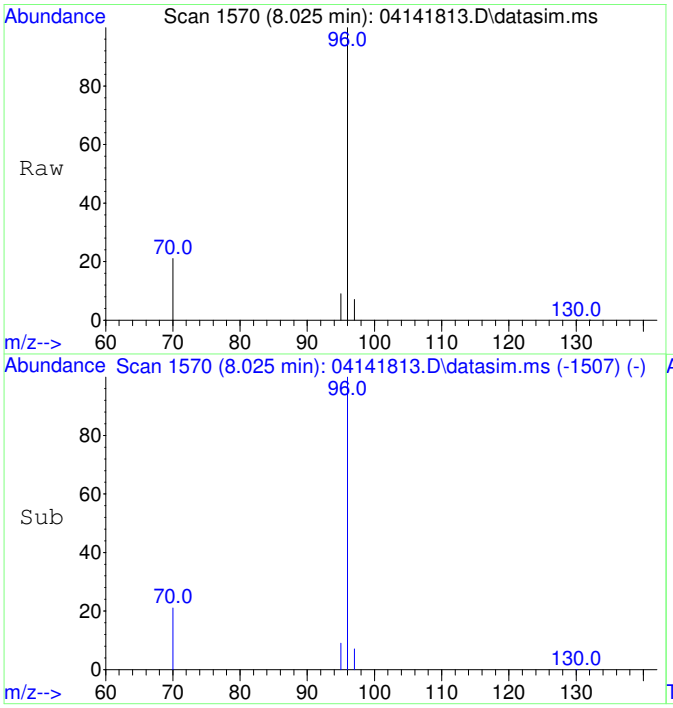


#47
1,2,4-Trimethylbenzene SCAN
Concen: 59.17 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. 0.001 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion:105 Resp: 562

Ion	Ratio	Lower	Upper
105	100		
120	35.9	12.8	72.8
119	12.8	0.0	42.5
77	0.0	0.0	42.2

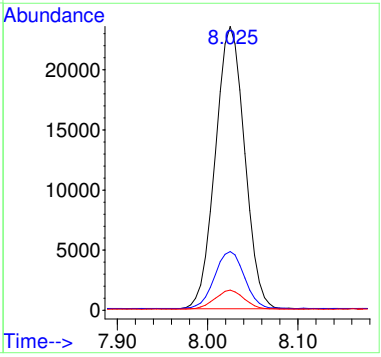




#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. -0.000 min
Lab File: 04141813.D
Acq: 14 Apr 2018 15:36

Tgt Ion: 96 Resp: 52821

Ion	Ratio	Lower	Upper
96	100		
70	20.8	0.0	50.7
97	6.7	0.0	36.7



1804005-05

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141818.D
Acq On : 14 Apr 2018 17:35
InstName : AG5975C
Operator : RH
Sample : 1804005-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 16 09:38:58 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

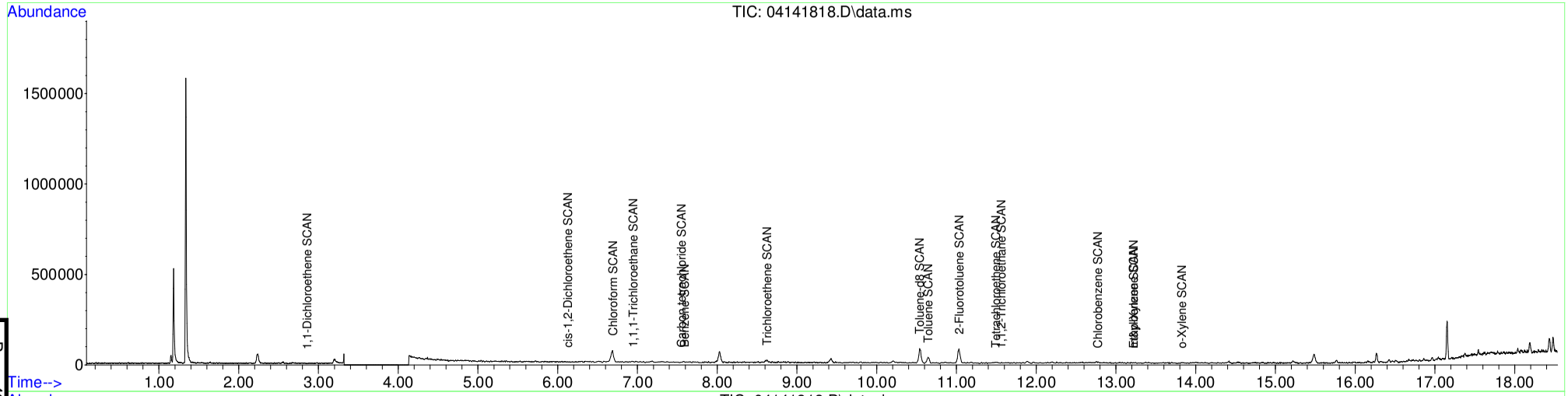
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	124741	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	93862	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	108463	5180.34 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.61%		
Target Compounds					Qvalue
6] Chloroform	6.676	83	94879	11705.69 ug/L	100
7] 1,1,1-Trichloroethane	6.932	97	308	38.92 ug/L	94
8] Carbon tetrachloride	7.211	117	1293	179.07 ug/L	94
9] Benzene	7.540	78	1478	73.97 ug/L	70
11] Trichloroethene	8.619	130	8313	1509.94 ug/L	99
13] Toluene	10.634	91	43231	1640.48 ug/L	99
15] Tetrachloroethene	11.495	166	1891	261.80 ug/L	99
18] Ethylbenzene	13.036	91	958	32.02 ug/L	85
19] m&p-Xylene	13.218	91	2617	111.80 ug/L	98
20] o-Xylene	13.846	91	903	36.61 ug/L	89
23] 1,2,4-Trimethylbenzene	15.949	105	661	22.51 ug/L	91
25) 2-Fluorotoluene SCAN	11.032	109	62969	5224.23 ug/L	92
26) 1,1-Dichloroethene SCAN	2.855	61	83	31.07 ug/L #	31
29) cis-1,2-Dichloroethene...	6.120	61	102	32.44 ug/L #	27
30) Chloroform SCAN	6.687	83	54215	14292.78 ug/L	83
31) 1,1,1-Trichloroethane ...	6.942	97	306	64.29 ug/L #	29
32) Carbon tetrachloride SCAN	7.551	117	162	47.32 ug/L #	22
33) Benzene SCAN	7.587	78	2198	211.79 ug/L #	57
35) Trichloroethene SCAN	8.623	130	4950	1898.42 ug/L #	86
36) Toluene-d8 SCAN	10.539	98	54137	5115.57 ug/L	88
37) Toluene SCAN	10.644	91	22878	1932.96 ug/L	93
38) 1,1,2-Trichloroethane ...	11.557	97	103	28.42 ug/L #	17
39) Tetrachloroethene SCAN	11.494	166	953	246.90 ug/L #	67
40) Chlorobenzene SCAN	12.772	112	282	30.32 ug/L #	74
42) Ethylbenzene SCAN	13.217	91	1102	71.03 ug/L	76
43) m&p-Xylene SCAN	13.217	91	1102	43.65 ug/L	85
44) o-Xylene SCAN	13.829	91	559	40.89 ug/L #	35

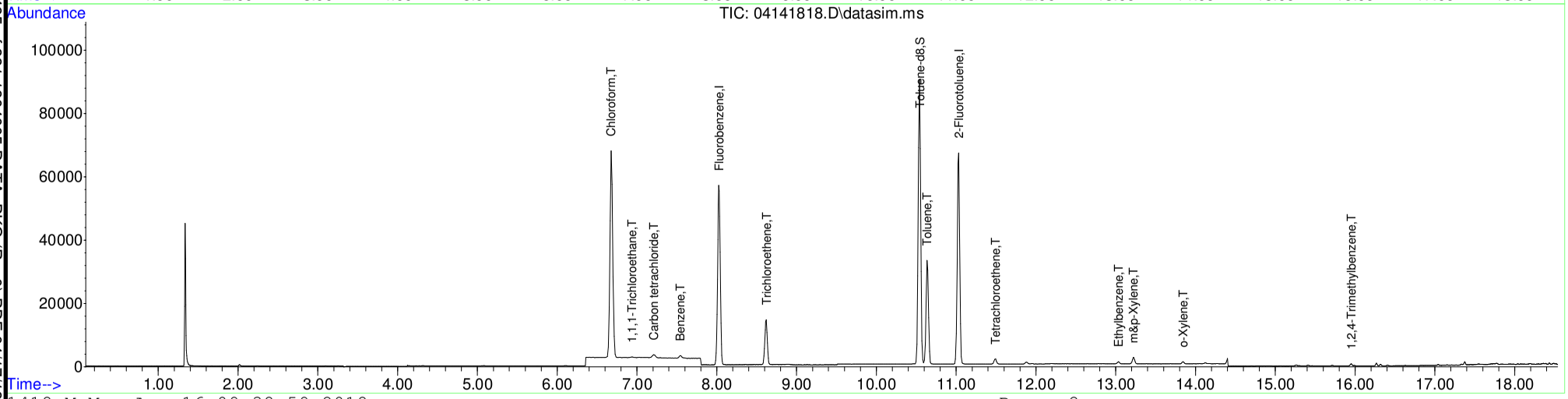
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141818.D
Acq On : 14 Apr 2018 17:35
InstName : AG5975C
Operator : RH
Sample : 1804005-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 16 09:38:58 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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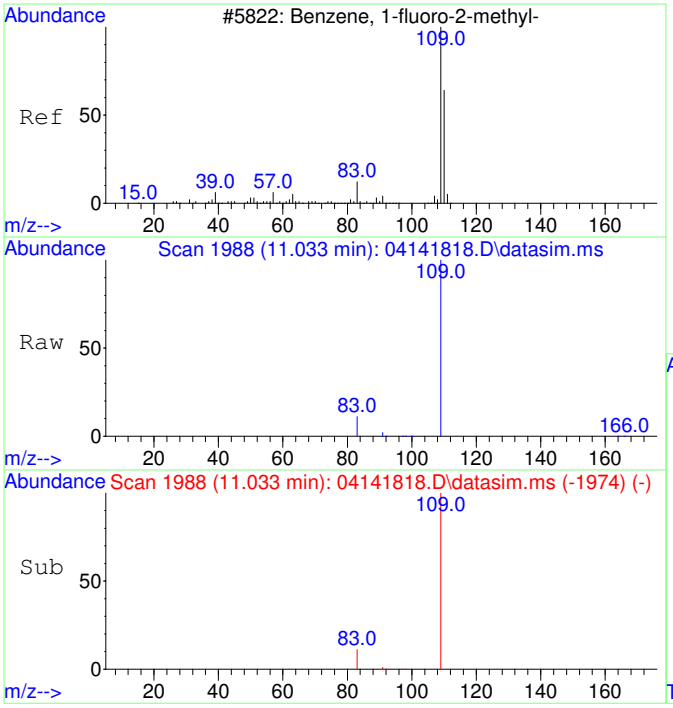
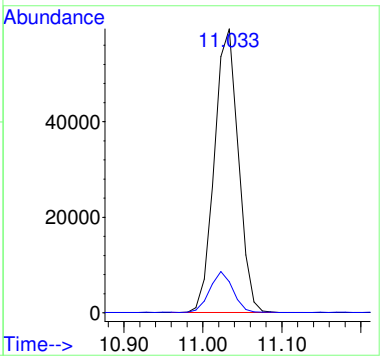
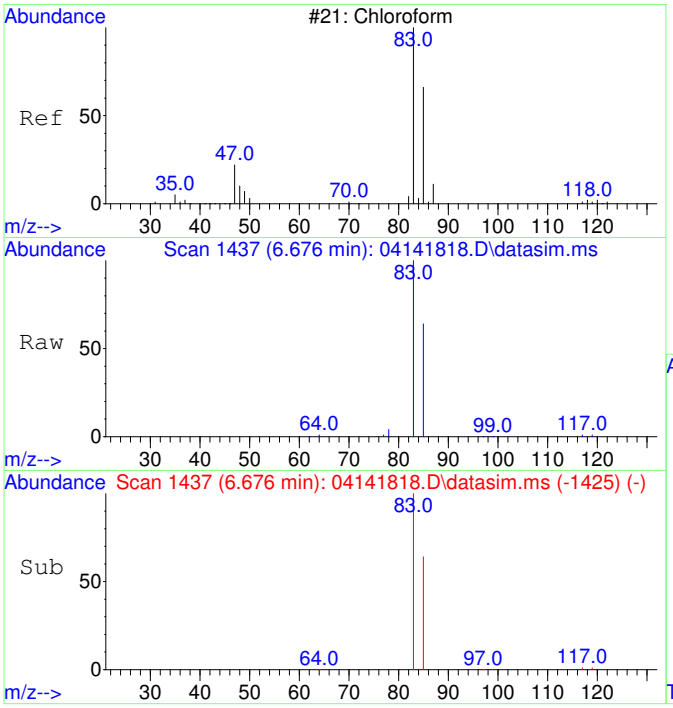


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:109 Resp: 124741

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	44.4

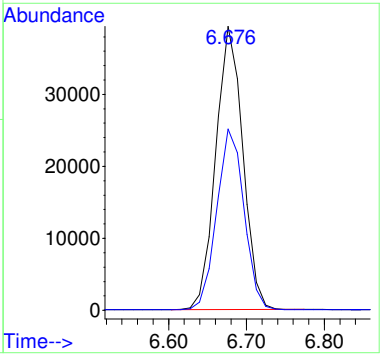


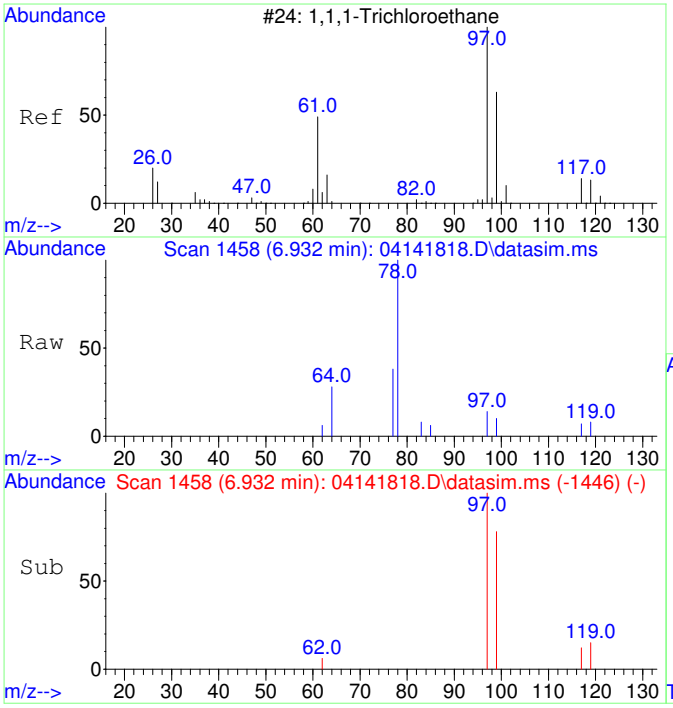


#6
Chloroform
Concen: 11705.69 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 83 Resp: 94879

Ion	Ratio	Lower	Upper
83	100		
85	64.2	34.2	94.2

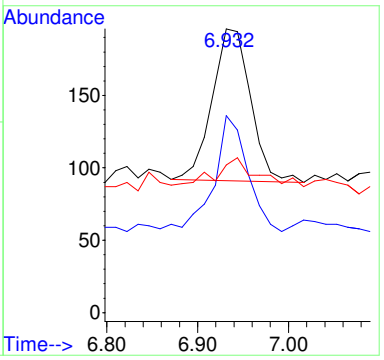


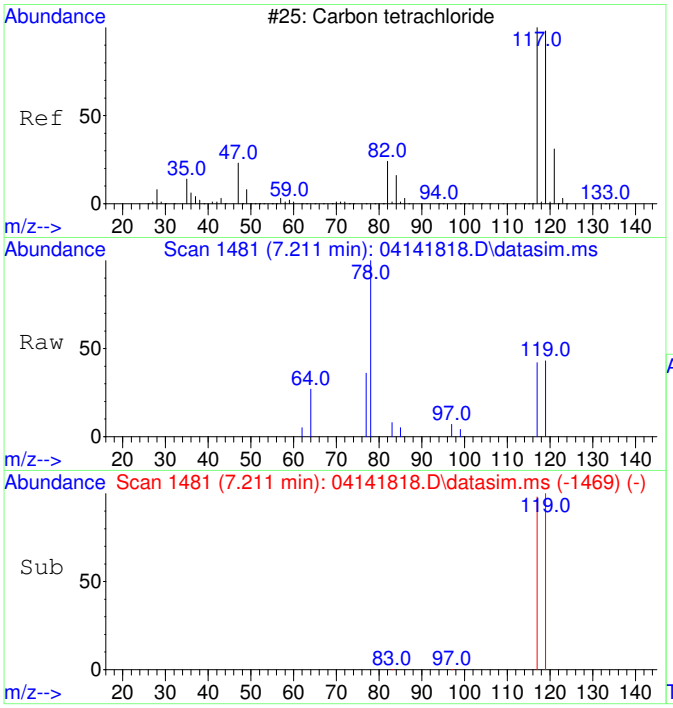


#7
1,1,1-Trichloroethane
Concen: 38.92 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 97 Resp: 308

Ion	Ratio	Lower	Upper
97	100		
99	67.2	34.5	94.5
117	20.5	0.0	42.6

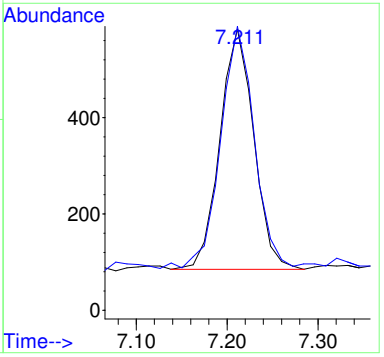


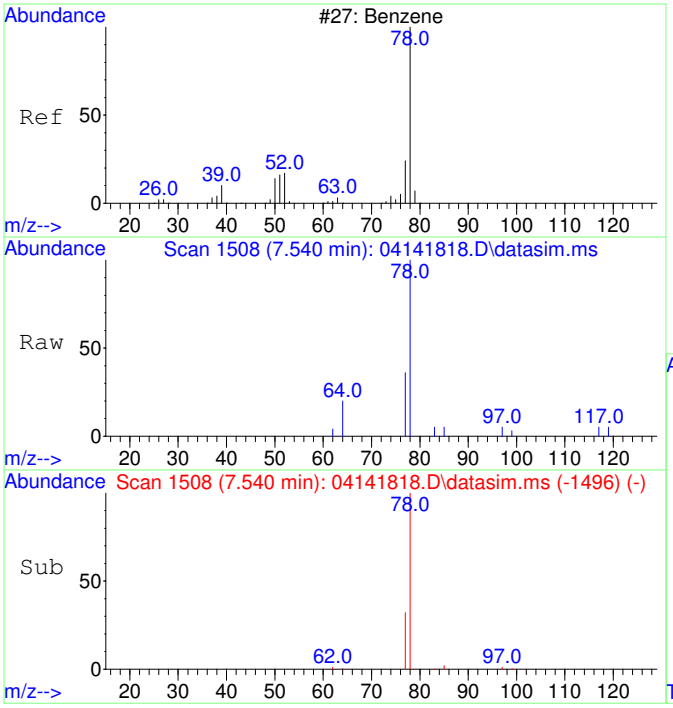


#8
Carbon tetrachloride
Concen: 179.07 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:117 Resp: 1293

Ion	Ratio	Lower	Upper
117	100		
119	100.7	64.5	124.5

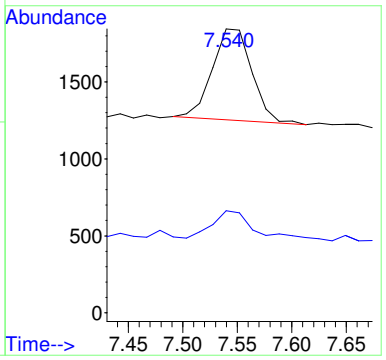


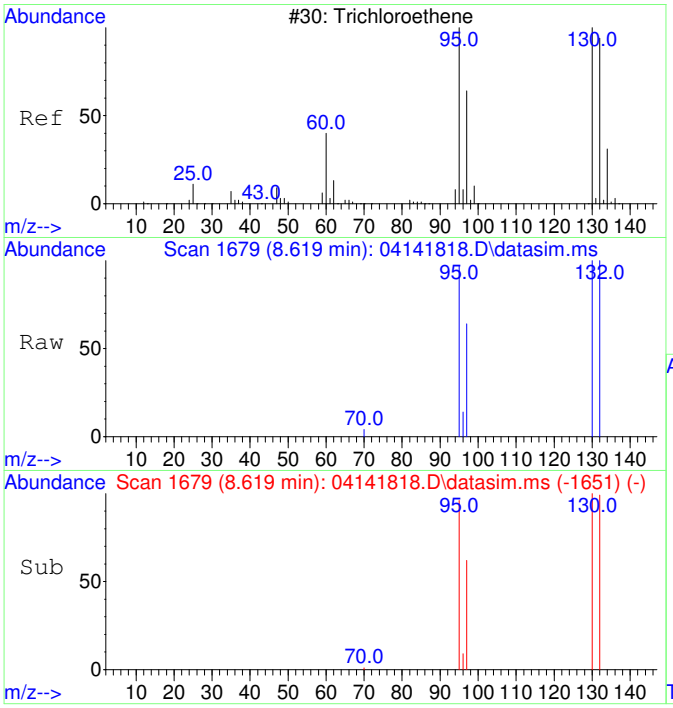


#9
Benzene
Concen: 73.97 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 78 Resp: 1478

Ion	Ratio	Lower	Upper
78	100		
77	38.1	0.0	53.6

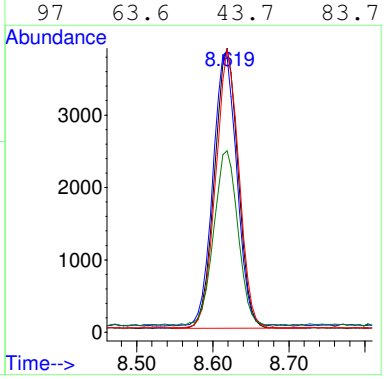


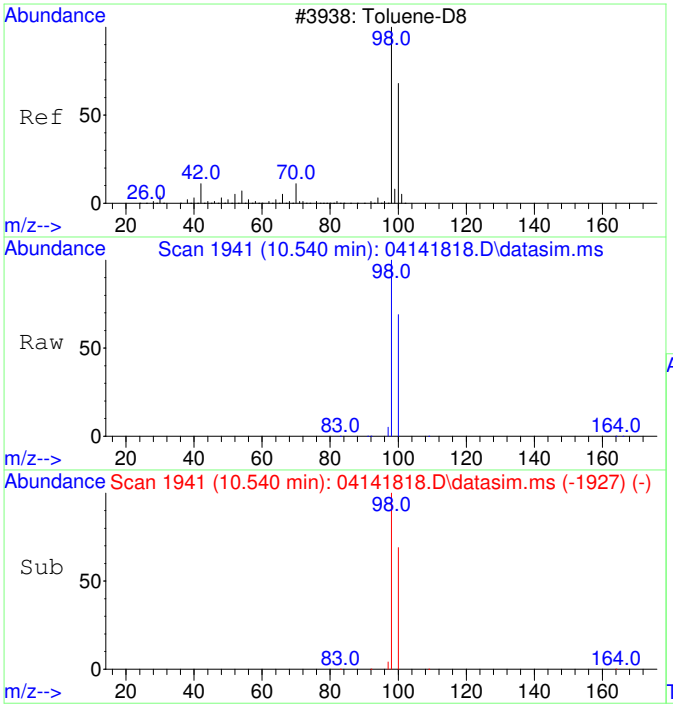


#11
Trichloroethene
Concen: 1509.94 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:130 Resp: 8313

Ion	Ratio	Lower	Upper
130	100		
95	98.2	68.8	128.8
132	97.8	78.6	118.6
97	63.6	43.7	83.7

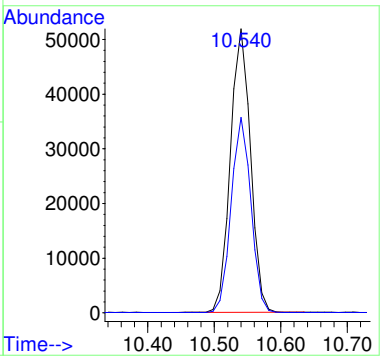


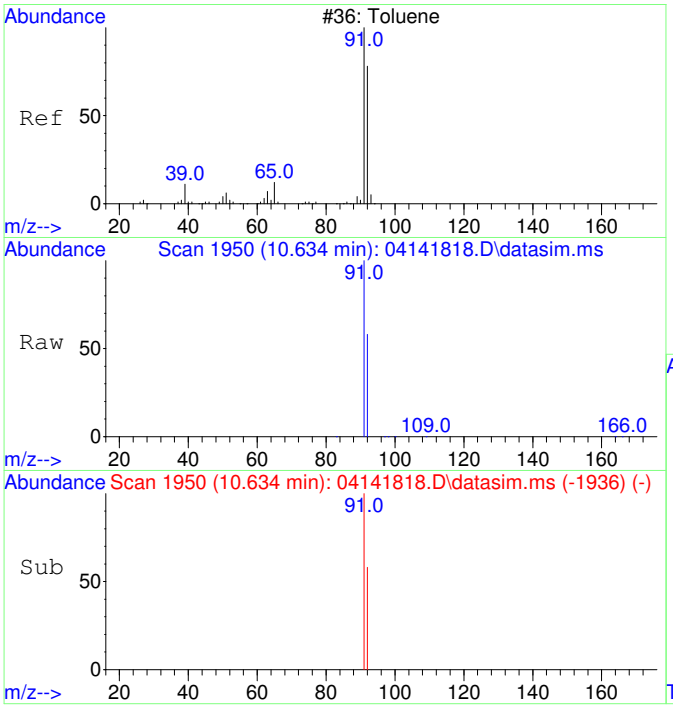


#12
Toluene-d8
Concen: 5180.34 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 98 Resp: 108463

Ion	Ratio	Lower	Upper
98	100		
100	67.5	36.9	96.9

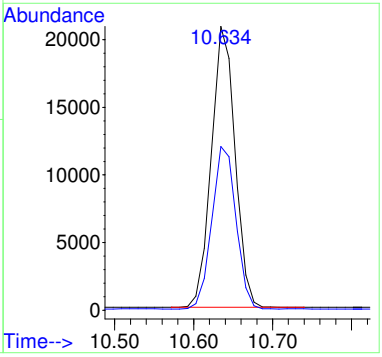


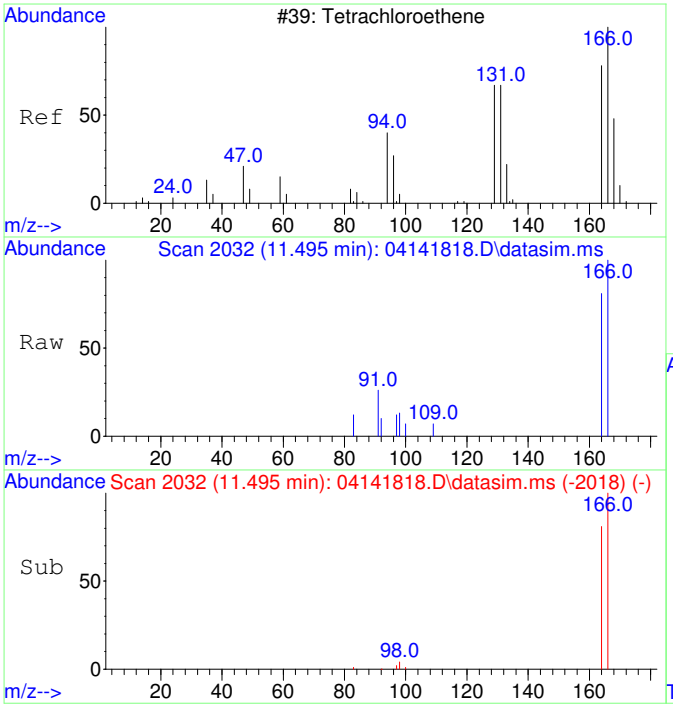


#13
Toluene
Concen: 1640.48 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 91 Resp: 43231

Ion	Ratio	Lower	Upper
91	100		
92	59.2	28.8	88.8

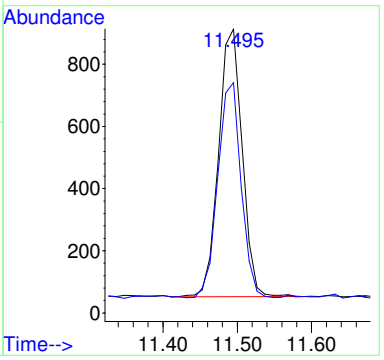


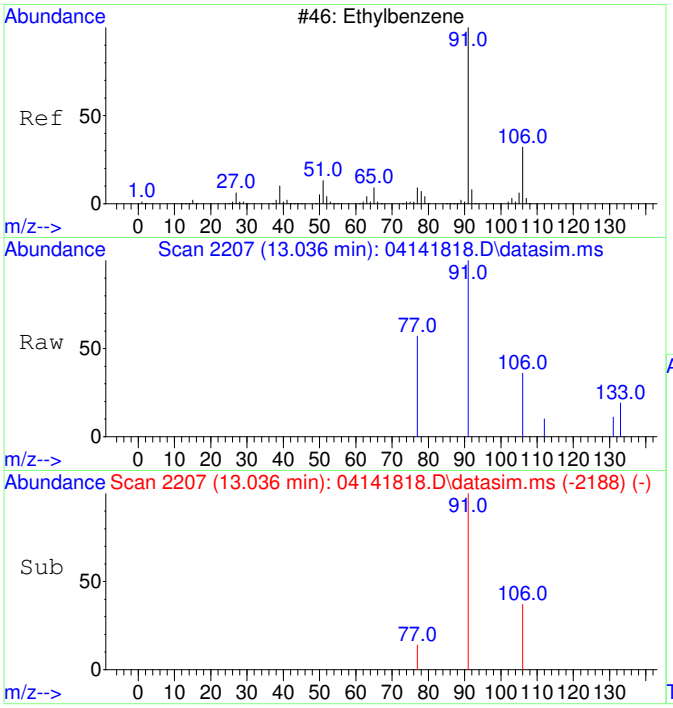


#15
Tetrachloroethene
Concen: 261.80 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:166 Resp: 1891

Ion	Ratio	Lower	Upper
166	100		
164	79.2	48.0	108.0

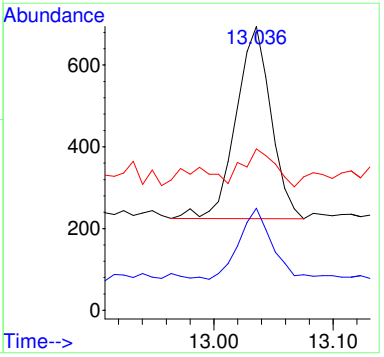


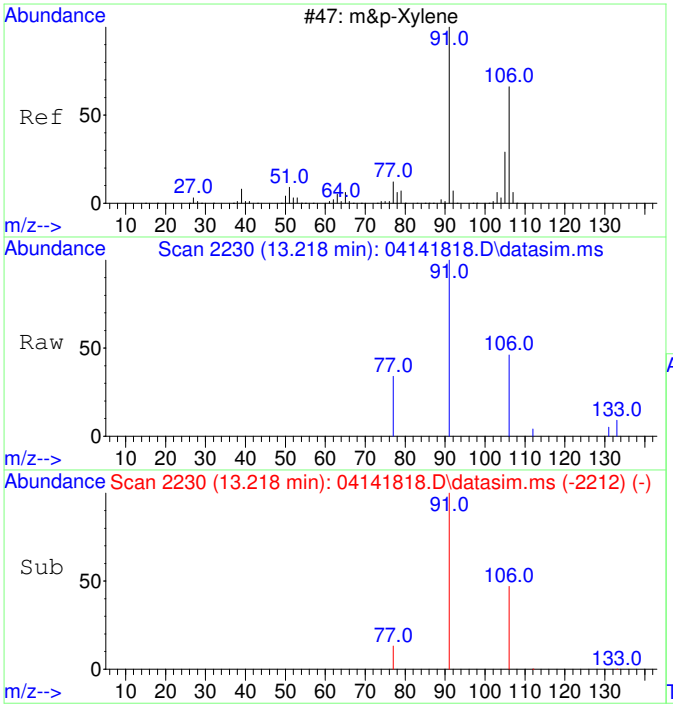


#18
Ethylbenzene
Concen: 32.02 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 91 Resp: 958

Ion	Ratio	Lower	Upper
91	100		
106	38.2	1.8	61.8
77	17.8	0.0	38.7

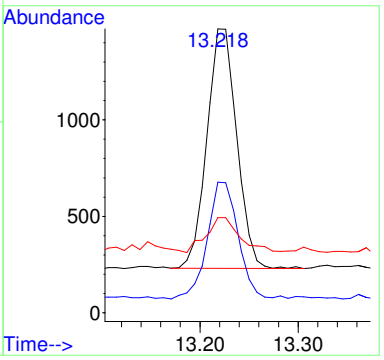


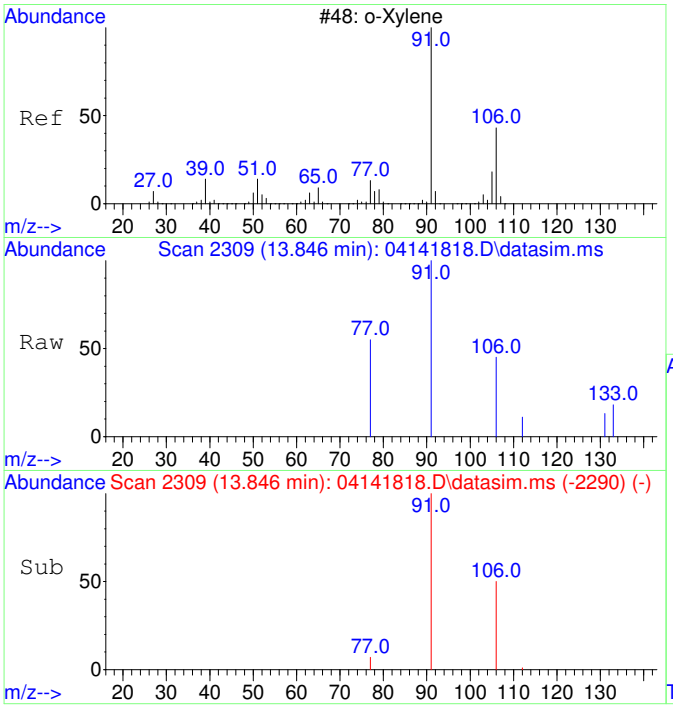


#19
m&p-Xylene
Concen: 111.80 ug/L
RT: 13.218 min Scan# 2230
Delta R.T. -0.008 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 91 Resp: 2617

Ion	Ratio	Lower	Upper
91	100		
106	49.2	20.0	80.0
77	16.3	0.0	43.4

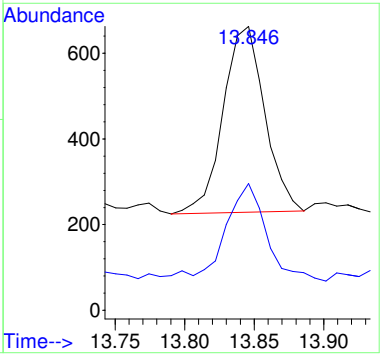


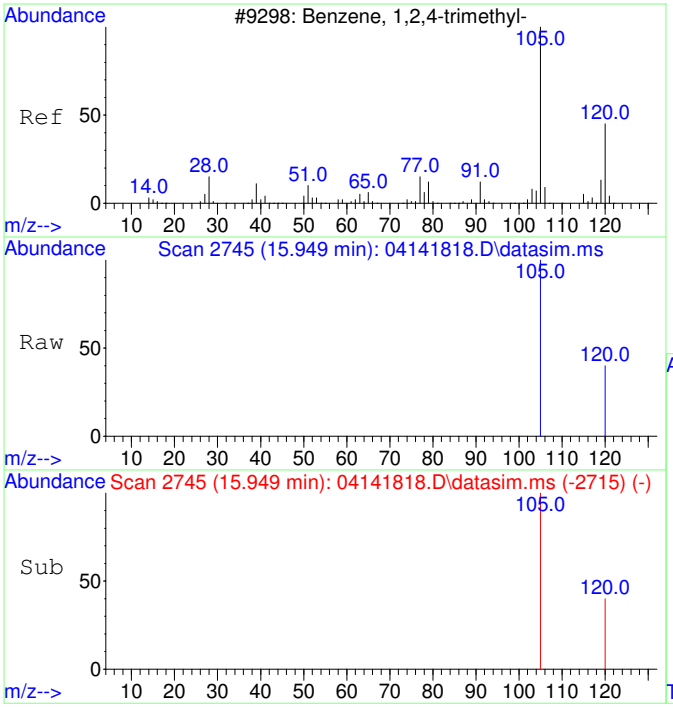


#20
o-Xylene
Concen: 36.61 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 91 Resp: 903

Ion	Ratio	Lower	Upper
91	100		
106	54.3	16.9	76.9

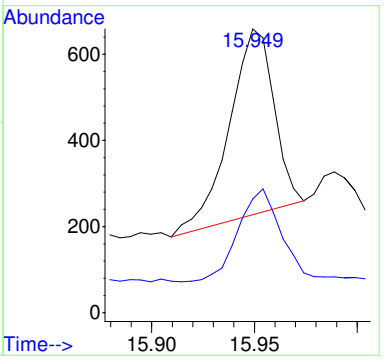


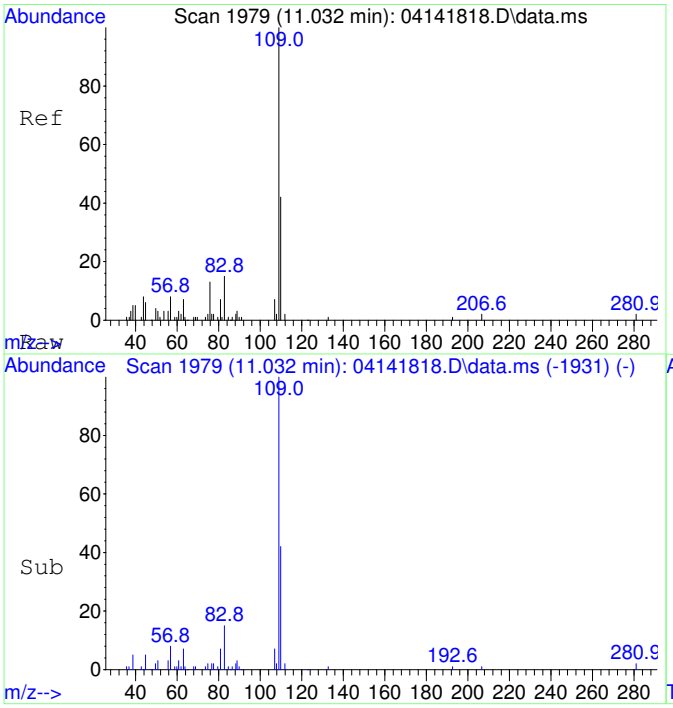


#23
1,2,4-Trimethylbenzene
Concen: 22.51 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:105 Resp: 661

Ion	Ratio	Lower	Upper
105	100		
120	50.4	14.5	74.5

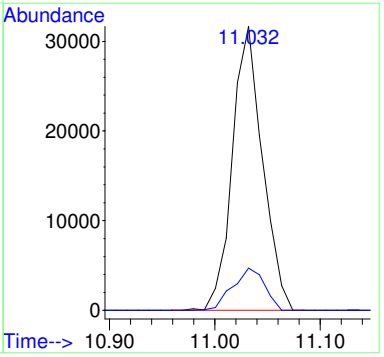


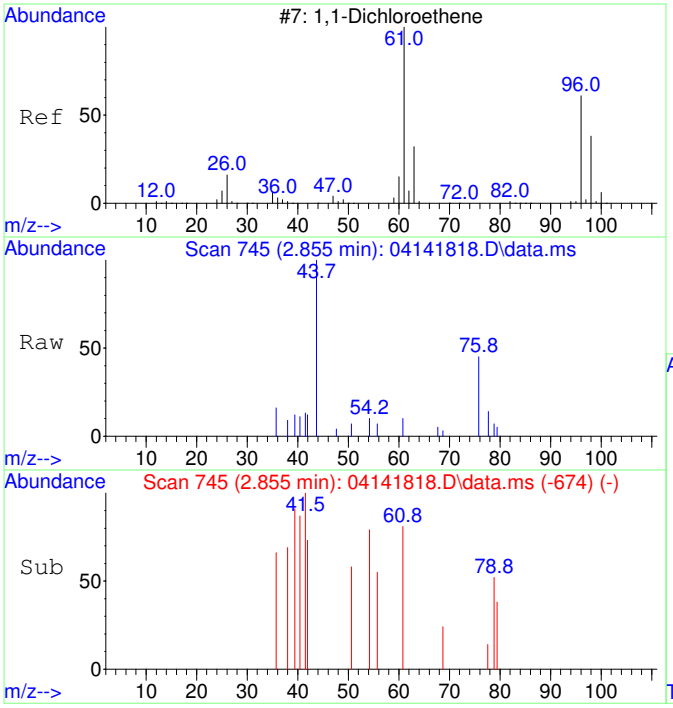


#25
2-Fluorotoluene SCAN
Concen: 5224.23 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:109 Resp: 62969

Ion	Ratio	Lower	Upper
109	100		
83	15.8	0.0	49.2

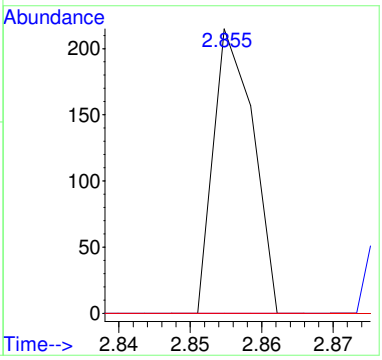


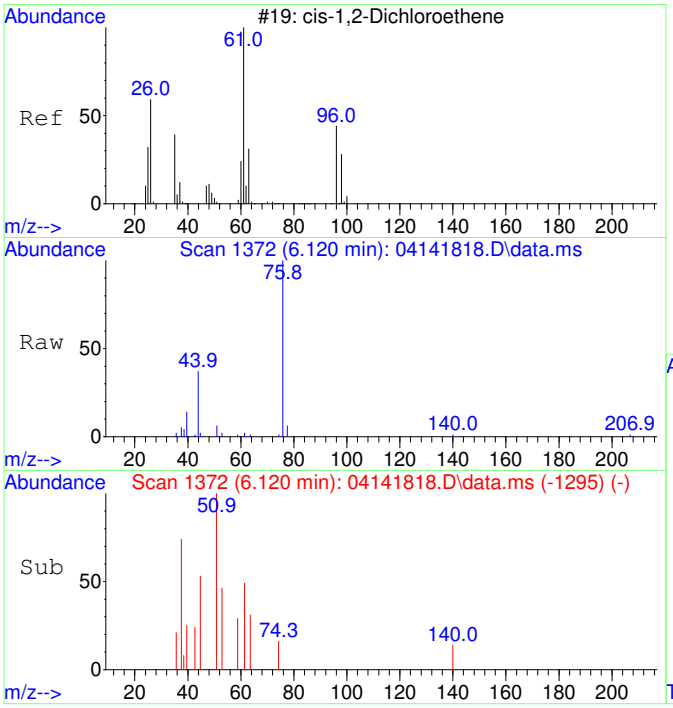


#26
1,1-Dichloroethene SCAN
Concen: 31.07 ug/L
RT: 2.855 min Scan# 745
Delta R.T. -0.238 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 61 Resp: 83

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.6	81.6#
98	0.0	7.5	67.5#

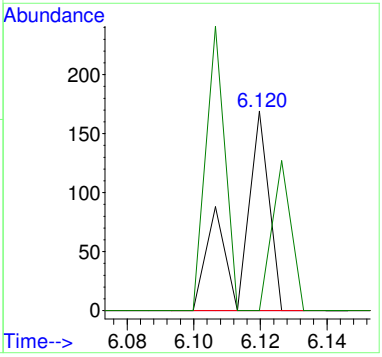


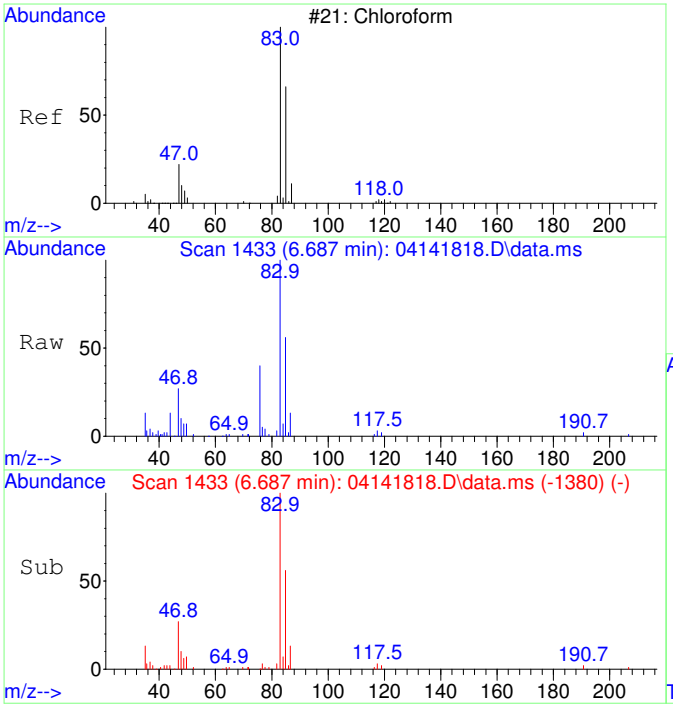


#29
cis-1,2-Dichloroethene SCAN
Concen: 32.44 ug/L
RT: 6.120 min Scan# 1372
Delta R.T. 0.013 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 61 Resp: 102

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.4	109.4#
98	0.0	9.5	69.5#
63	50.0	0.0	60.0

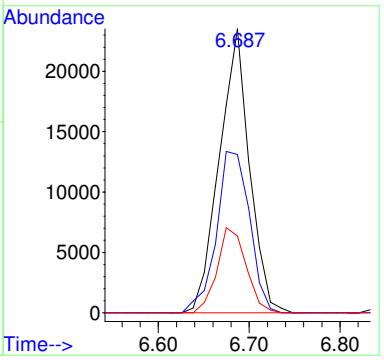


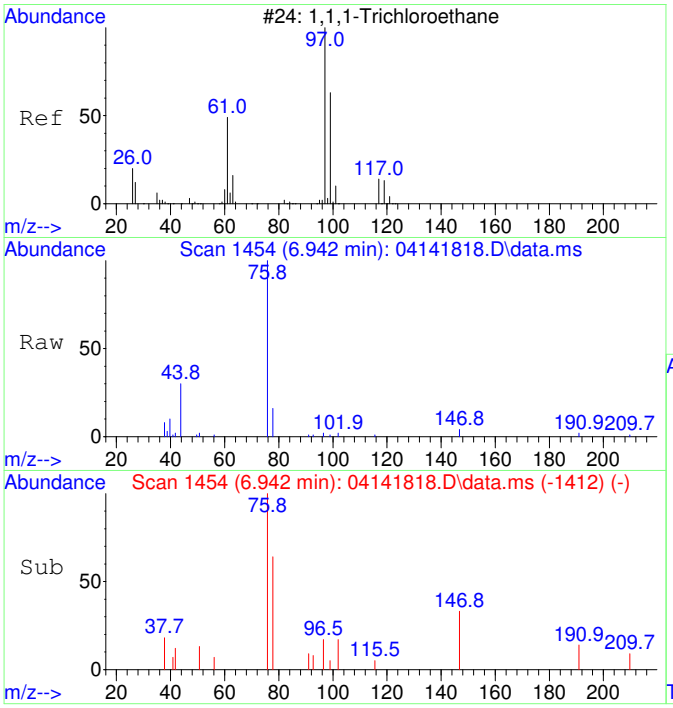


#30
Chloroform SCAN
Concen: 14292.78 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 83 Resp: 54215

Ion	Ratio	Lower	Upper
83	100		
85	62.7	47.8	107.8
47	28.9	8.2	68.2

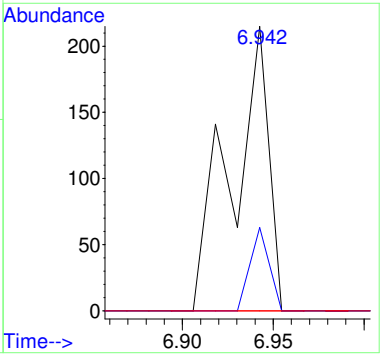


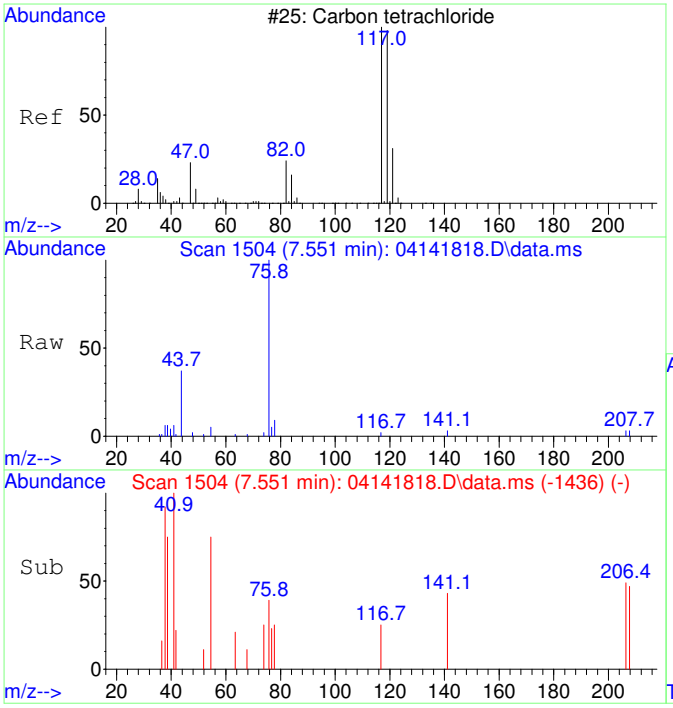


#31
1,1,1-Trichloroethane SCAN
Concen: 64.29 ug/L
RT: 6.942 min Scan# 1454
Delta R.T. 0.012 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 97 Resp: 306

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

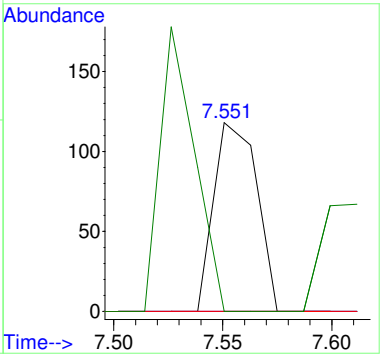


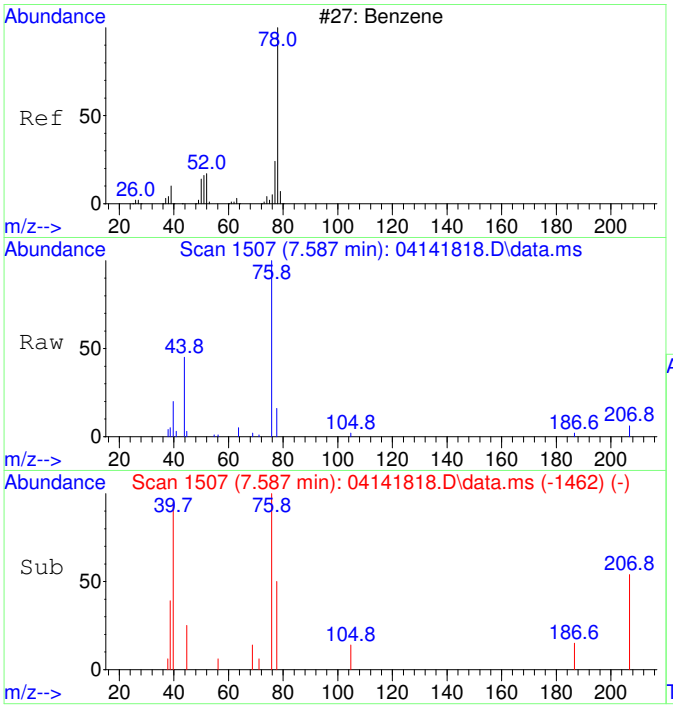


#32
Carbon tetrachloride SCAN
Concen: 47.32 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.328 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:117 Resp: 162

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

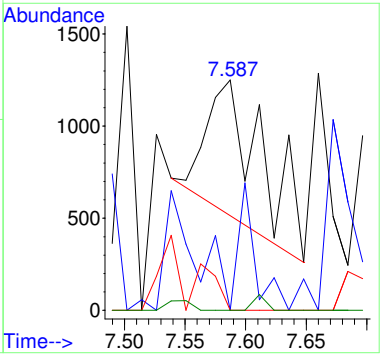


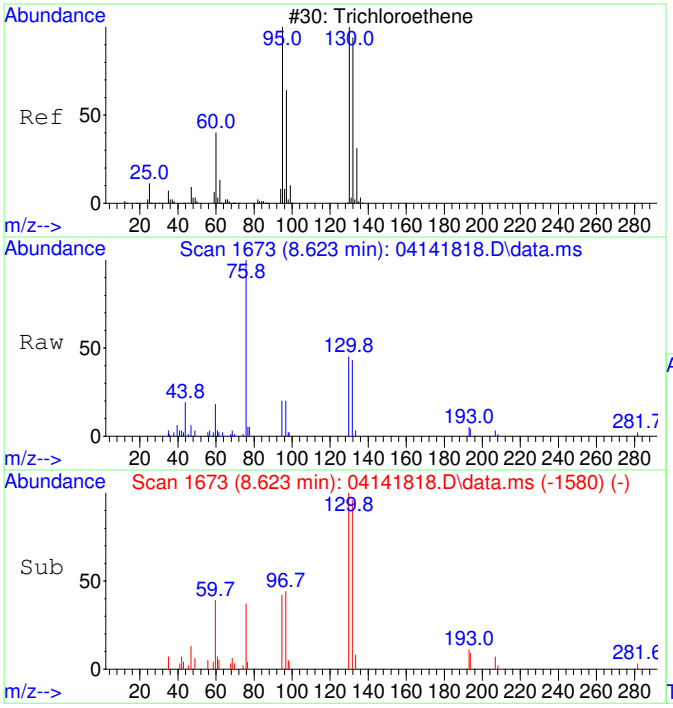


#33
Benzene SCAN
Concen: 211.79 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. 0.049 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 78 Resp: 2198

Ion	Ratio	Lower	Upper
78	100		
77	8.3	5.4	65.4
51	0.0	0.0	47.2
52	0.0	0.0	47.4

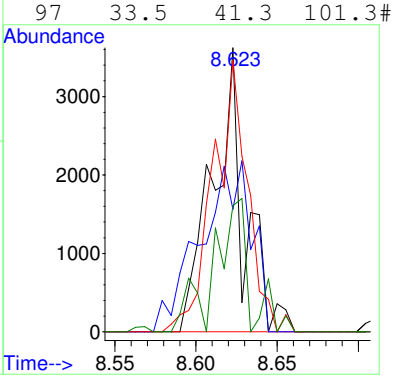


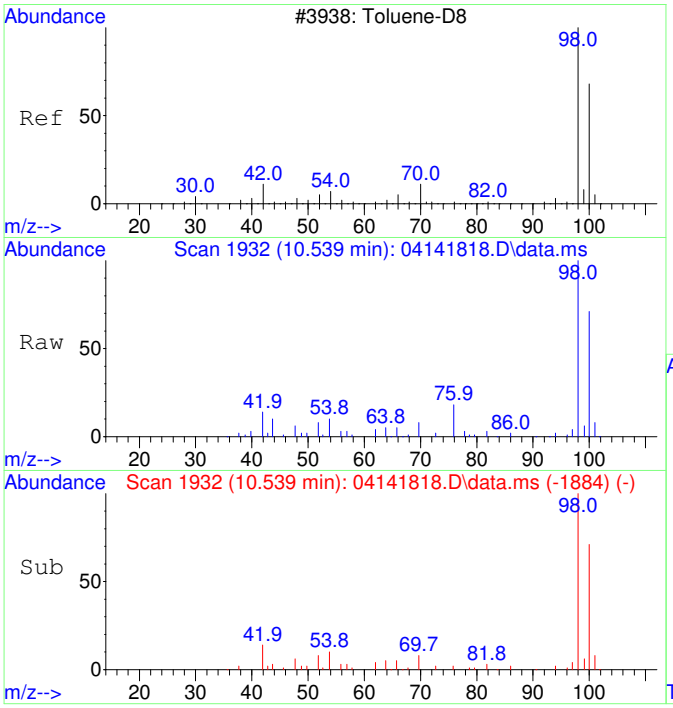


#35
Trichloroethene SCAN
Concen: 1898.42 ug/L
RT: 8.623 min Scan# 1673
Delta R.T. 0.005 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:130 Resp: 4950

Ion	Ratio	Lower	Upper
130	100		
95	95.8	71.3	131.3
132	102.9	75.1	135.1
97	33.5	41.3	101.3#

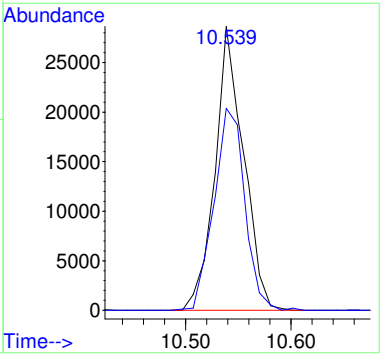


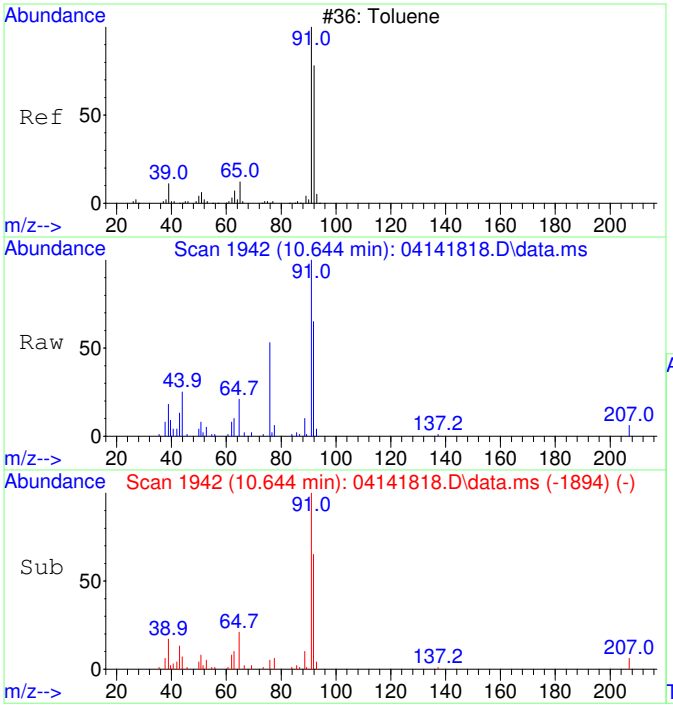


#36
Toluene-d8 SCAN
Concen: 5115.57 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 98 Resp: 54137

Ion	Ratio	Lower	Upper
98	100		
100	76.7	37.3	97.3

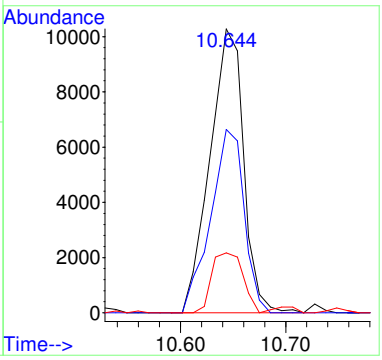


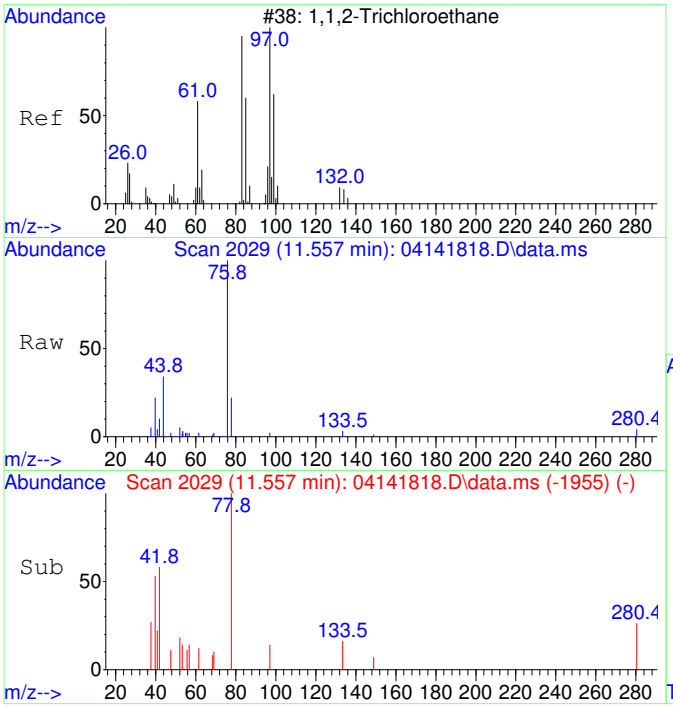


#37
Toluene SCAN
Concen: 1932.96 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 91 Resp: 22878

Ion	Ratio	Lower	Upper
91	100		
92	64.2	39.1	99.1
65	18.9	0.0	43.8

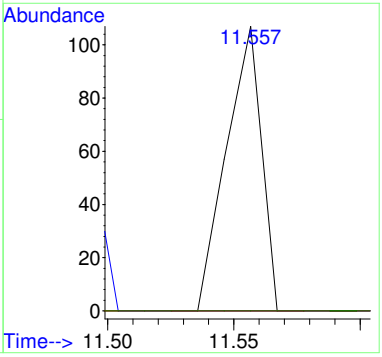


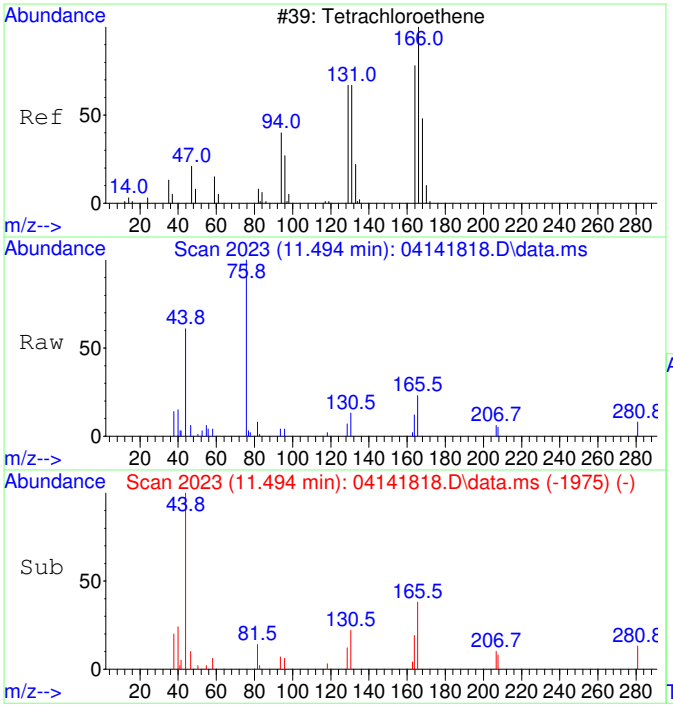


#38
1,1,2-Trichloroethane SCAN
Concen: 28.42 ug/L
RT: 11.557 min Scan# 2029
Delta R.T. 0.273 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 97 Resp: 103

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

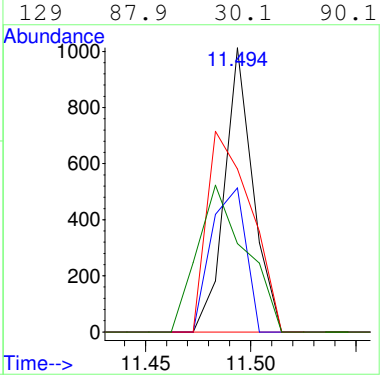


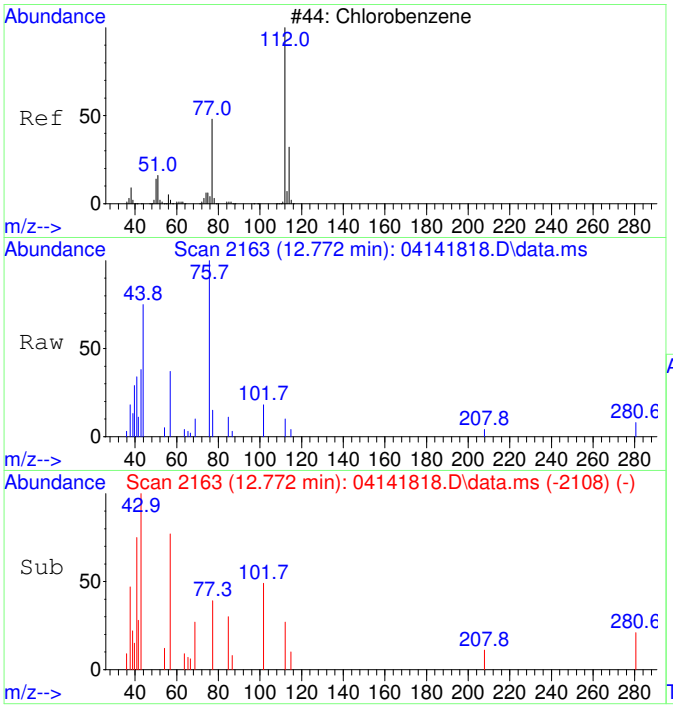


#39
Tetrachloroethene SCAN
Concen: 246.90 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:166 Resp: 953

Ion	Ratio	Lower	Upper
166	100		
164	61.6	49.8	109.8
131	109.2	42.0	102.0#
129	87.9	30.1	90.1

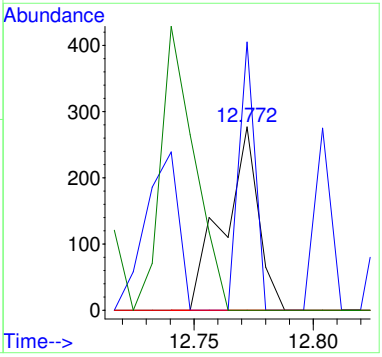


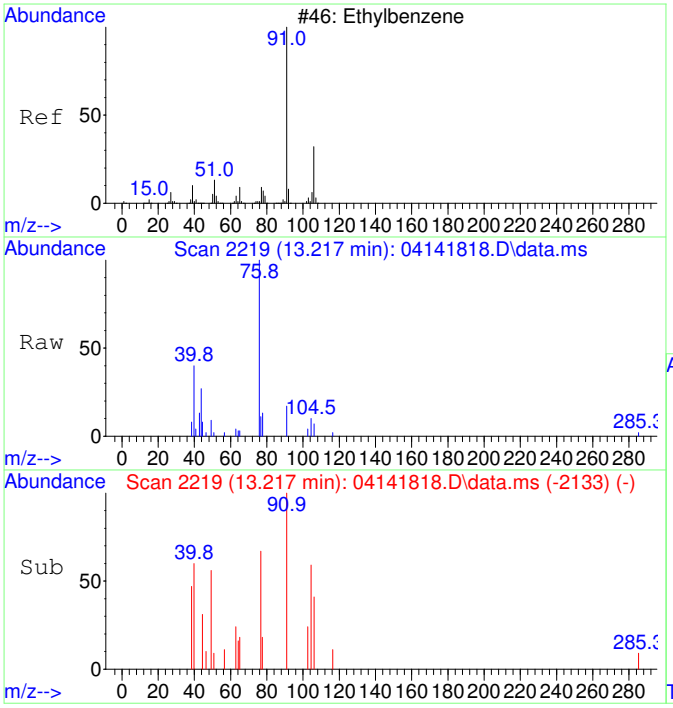


#40
Chlorobenzene SCAN
Concen: 30.32 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. -0.063 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion:112 Resp: 282

Ion	Ratio	Lower	Upper
112	100		
77	68.4	39.7	99.7
114	0.0	1.2	61.2#
51	0.0	0.0	57.1

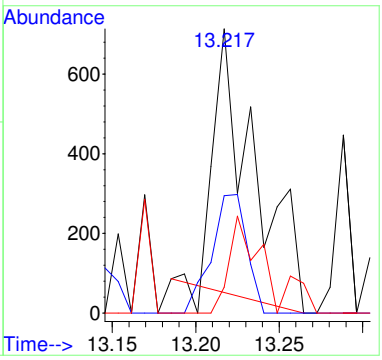


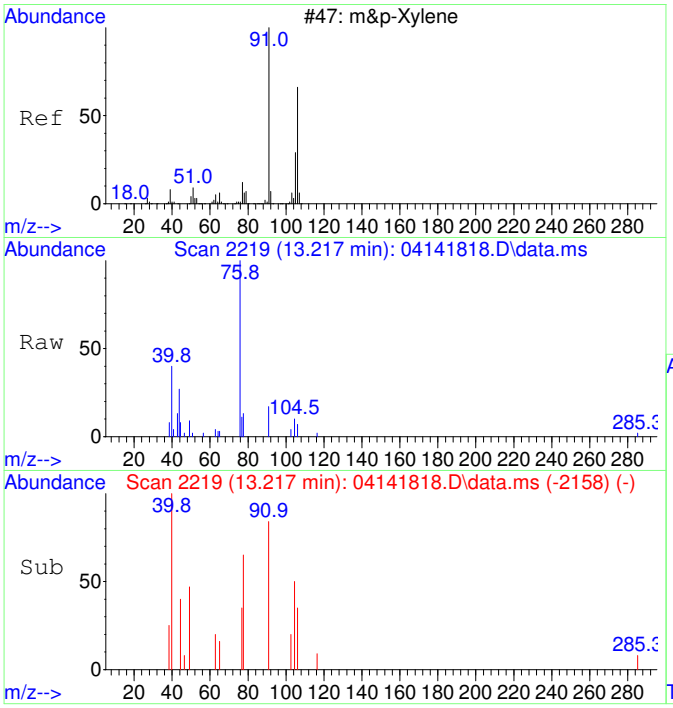


#42
Ethylbenzene SCAN
Concen: 71.03 ug/L
RT: 13.217 min Scan# 2219
Delta R.T. 0.183 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 91 Resp: 1102

Ion	Ratio	Lower	Upper
91	100		
106	39.7	1.8	61.8
51	33.8	0.0	45.4

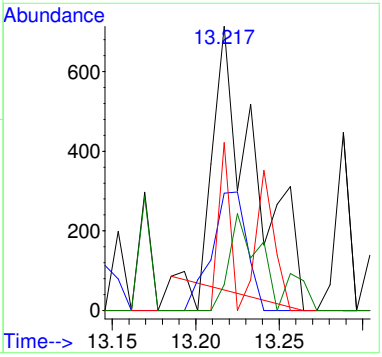


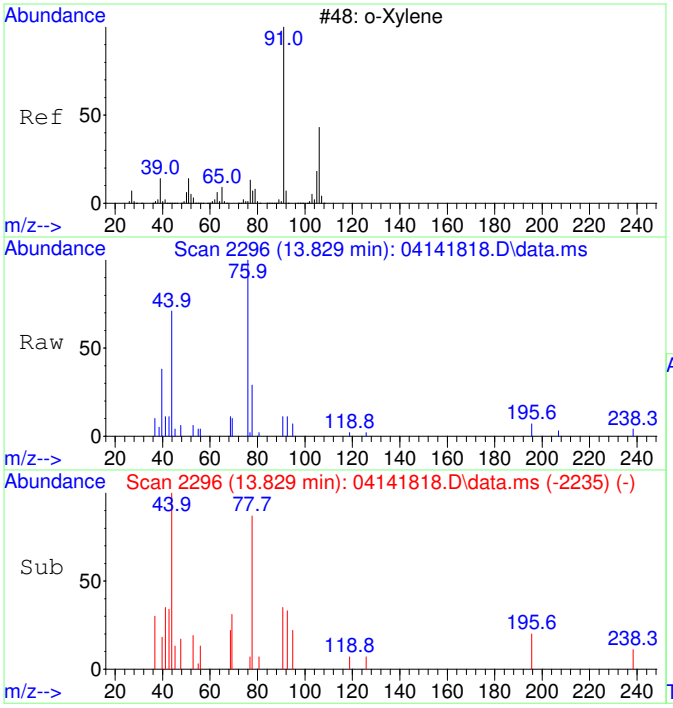


#43
m&p-Xylene SCAN
Concen: 43.65 ug/L
RT: 13.217 min Scan# 2219
Delta R.T. -0.016 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 91 Resp: 1102

Ion	Ratio	Lower	Upper
91	100		
106	39.7	14.6	74.6
105	18.2	0.0	52.8
51	33.8	0.0	44.5

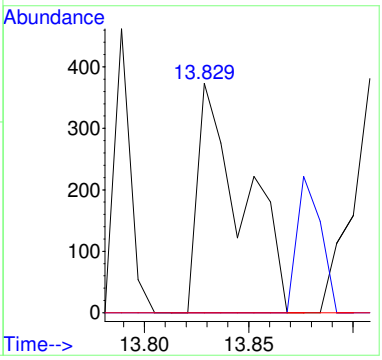


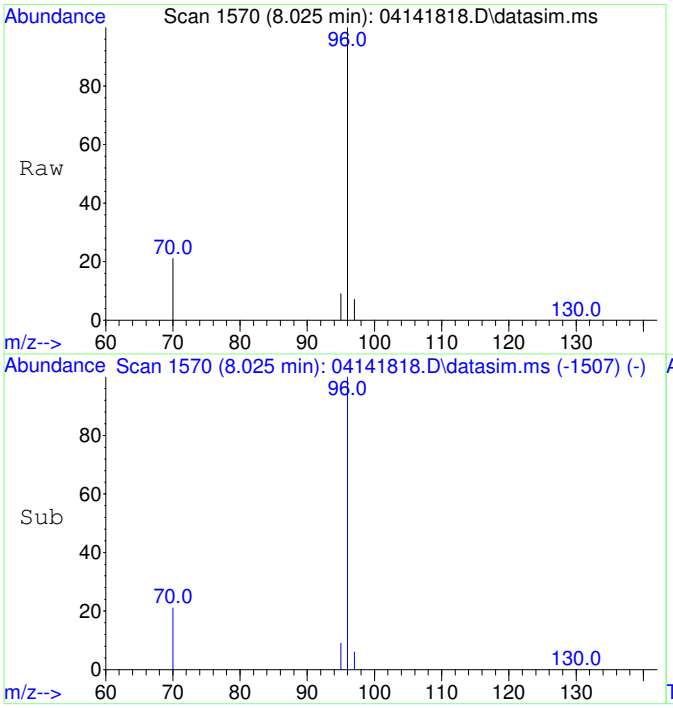


#44
o-Xylene SCAN
Concen: 40.89 ug/L
RT: 13.829 min Scan# 2296
Delta R.T. -0.016 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 91 Resp: 559

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	0.0	0.0	54.9

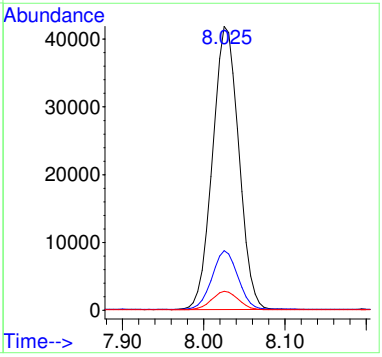




#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141818.D
Acq: 14 Apr 2018 17:35

Tgt Ion: 96 Resp: 93862

Ion	Ratio	Lower	Upper
96	100		
70	20.3	0.0	50.7
97	6.5	0.0	36.7



1804005-01RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141822.D
Acq On : 14 Apr 2018 19:10
InstName : AG5975C
Operator : RH
Sample : 1804005-01RE1
Misc : 10 UL- 1 ML
ALS Vial : 22 Sample Multiplier: 100

Quant Time: Apr 16 09:39:22 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

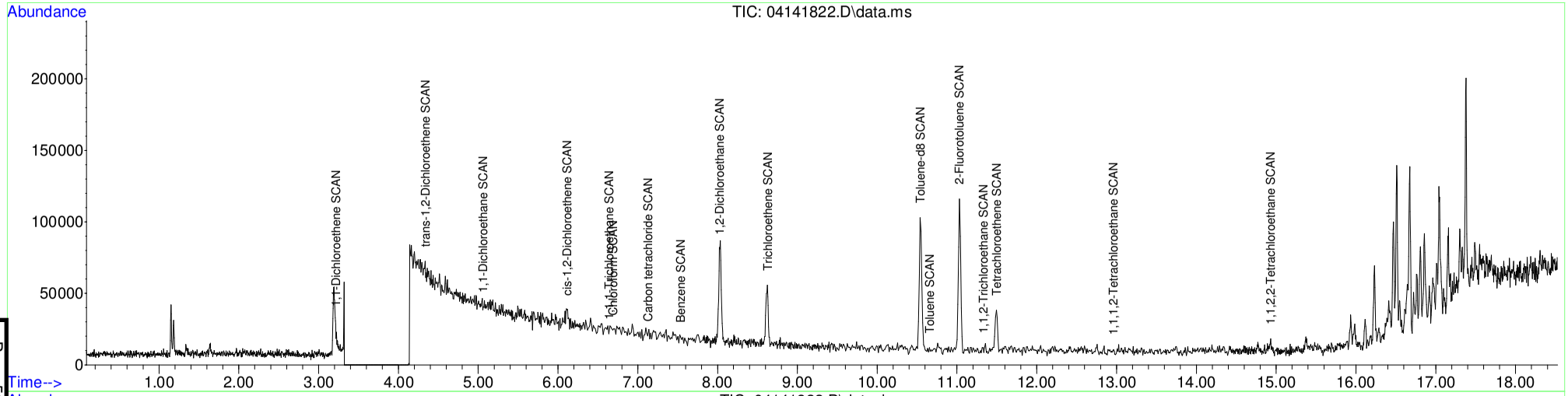
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 2-Fluorotoluene	11.033	109	157484	5000.00	ug/L	0.00	
49) Fluorobenzene	8.030	96	121237	5000.00	ug/L	0.00	
System Monitoring Compounds							
12) Toluene-d8	10.540	98	131893	4989.66	ug/L	0.00	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 99.79%				
Target Compounds						Qvalue	
3] trans-1,2-Dichloroethene	4.316	61	783	110.85	ug/L	95	
5] cis-1,2-Dichloroethene	6.101	61	11517	1323.65	ug/L	99	RPT
6] Chloroform	6.676	83	1517	148.25	ug/L	95	
9] Benzene	7.552	78	765	30.33	ug/L #	52	
11] Trichloroethene	8.618	130	26596	3826.40	ug/L	100	RPT
15] Tetrachloroethene	11.495	166	20552	2253.77	ug/L	100	RPT
21] 1,1,2,2-Tetrachloroethane	14.929	83	570	39.44	ug/L #	59	
25) 2-Fluorotoluene SCAN	11.032	109	84844	5575.57	ug/L	86	
26) 1,1-Dichloroethene SCAN	3.211	61	81	24.02	ug/L #	1	
27) trans-1,2-Dichloroethe...	4.335	61	373	112.88	ug/L #	36	
28) 1,1-Dichloroethane SCAN	5.064	63	291	57.55	ug/L #	21	
29) cis-1,2-Dichloroethene...	6.113	61	6739	1697.89	ug/L	85	
30) Chloroform SCAN	6.687	83	530	110.67	ug/L #	34	
31) 1,1,1-Trichloroethane ...	6.638	97	230	38.27	ug/L #	29	
32) Carbon tetrachloride SCAN	7.125	117	307	71.03	ug/L #	22	
33) Benzene SCAN	7.538	78	2957	225.69	ug/L #	67	
34) 1,2-Dichloroethane SCAN	8.029	62	1755	353.26	ug/L	67	
35) Trichloroethene SCAN	8.622	130	12993	3947.02	ug/L	87	
36) Toluene-d8 SCAN	10.538	98	70157	5251.02	ug/L	94	
37) Toluene SCAN	10.654	91	540	36.14	ug/L #	34	
38) 1,1,2-Trichloroethane ...	11.325	97	120	26.22	ug/L #	17	
39) Tetrachloroethene SCAN	11.493	166	8479	1740.01	ug/L #	77	
41) 1,1,1,2-Tetrachloroeth...	12.963	131	340	89.06	ug/L #	6	
45) 1,1,2,2-Tetrachloroeth...	14.931	83	320	35.42	ug/L #	27	

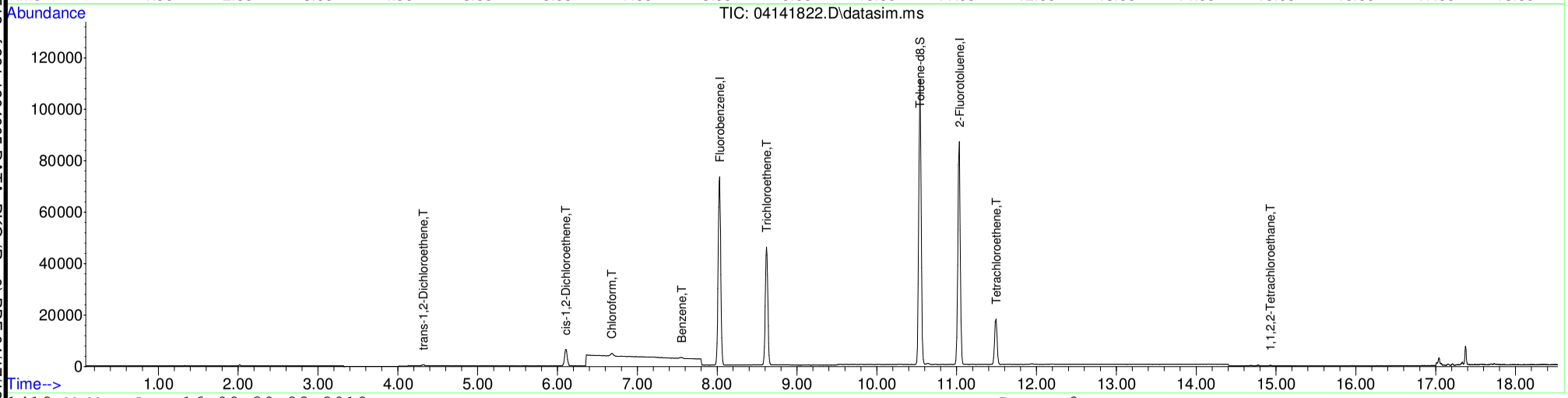
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141822.D
Acq On : 14 Apr 2018 19:10
InstName : AG5975C
Operator : RH
Sample : 1804005-01RE1
Misc : 10 UL- 1 ML
ALS Vial : 22 Sample Multiplier: 100

Quant Time: Apr 16 09:39:22 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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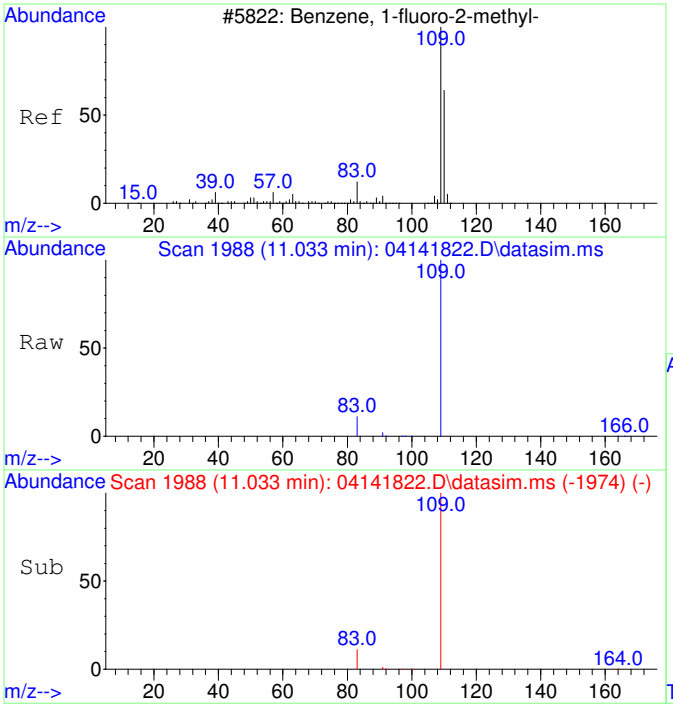
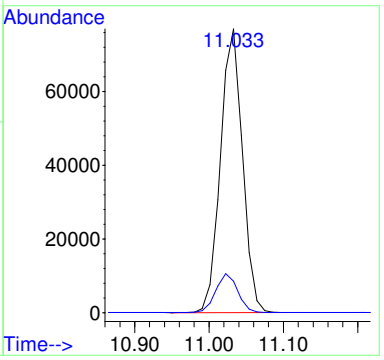
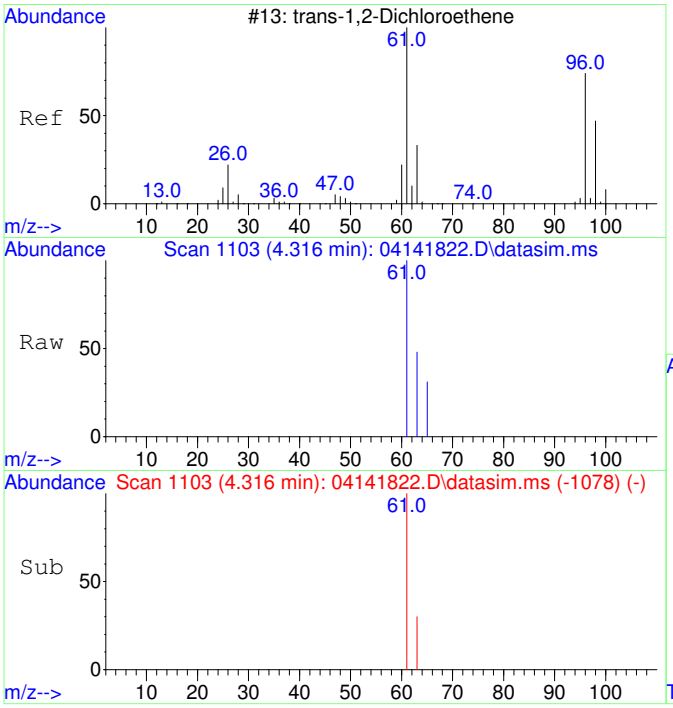


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion:109 Resp: 157484

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

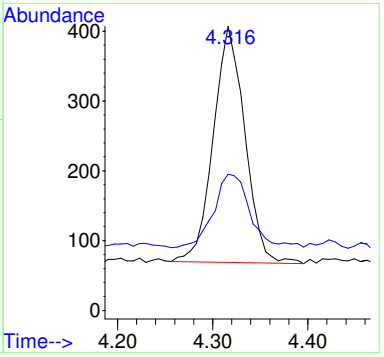


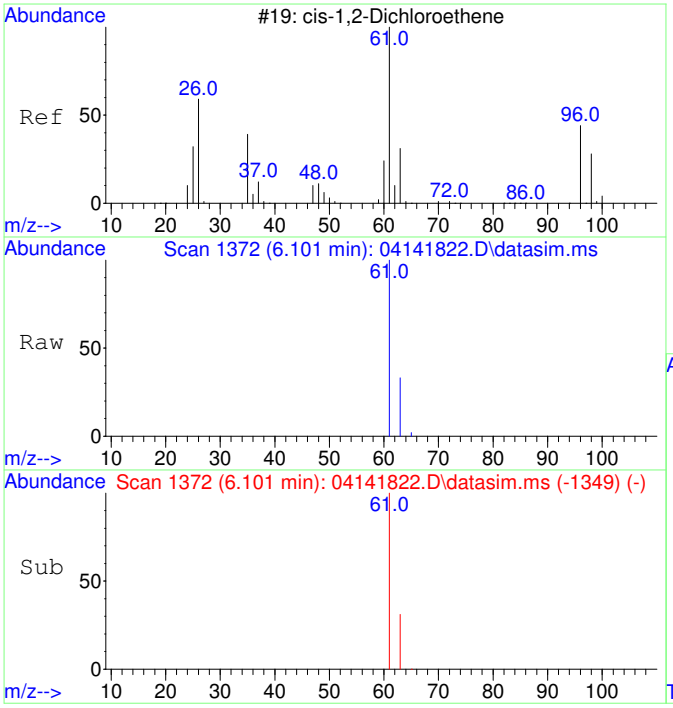


#3
trans-1,2-Dichloroethene
Concen: 110.85 ug/L
RT: 4.316 min Scan# 1103
Delta R.T. 0.013 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 61 Resp: 783

Ion	Ratio	Lower	Upper
61	100		
63	34.6	2.0	62.0

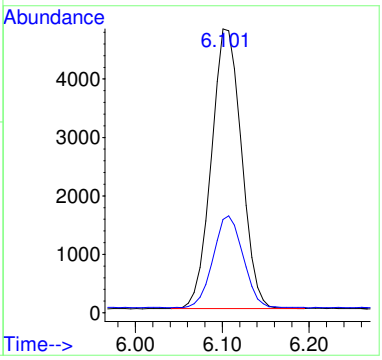


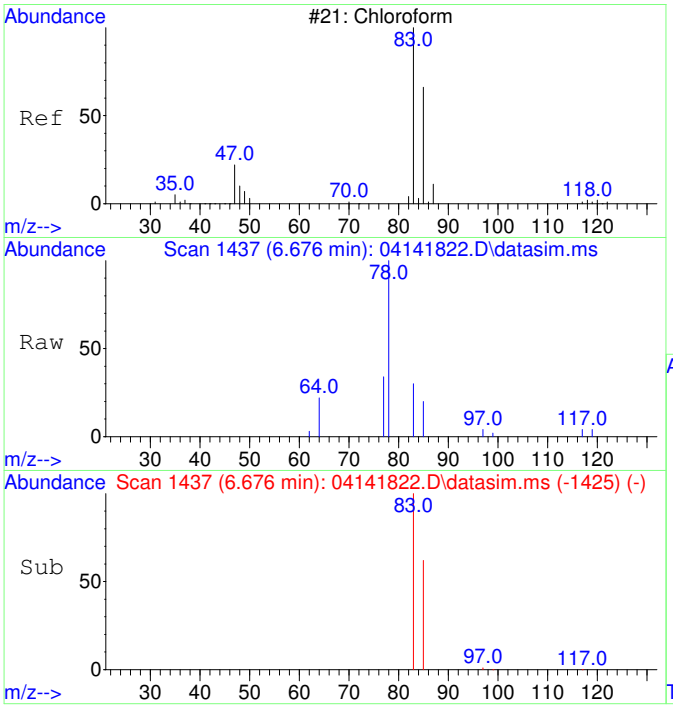


#5
cis-1,2-Dichloroethene
Concen: 1323.65 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 61 Resp: 11517

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.0	62.0

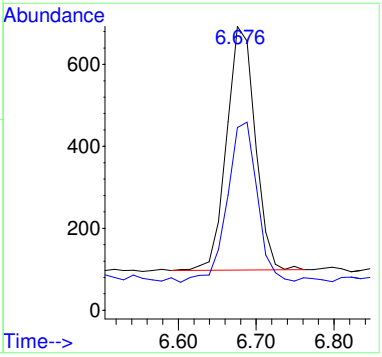


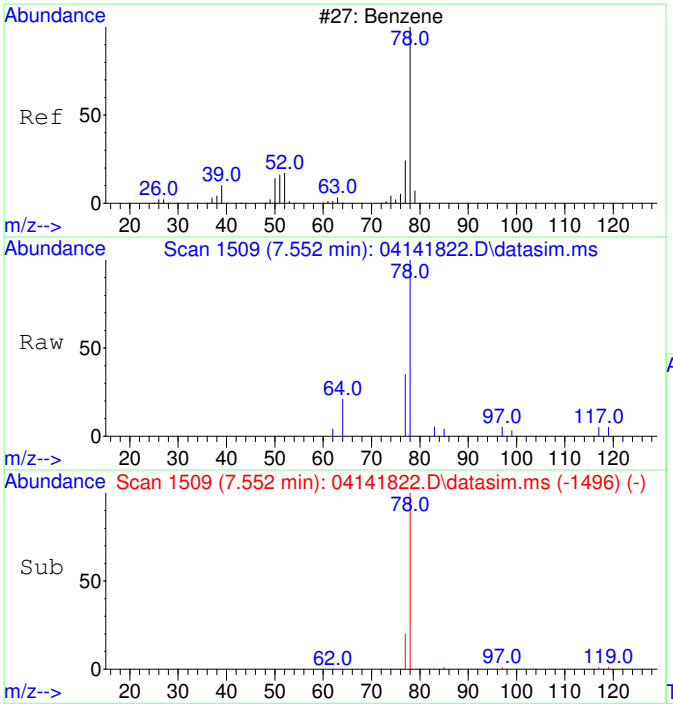


#6
Chloroform
Concen: 148.25 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 83 Resp: 1517

Ion	Ratio	Lower	Upper
83	100		
85	68.5	34.2	94.2

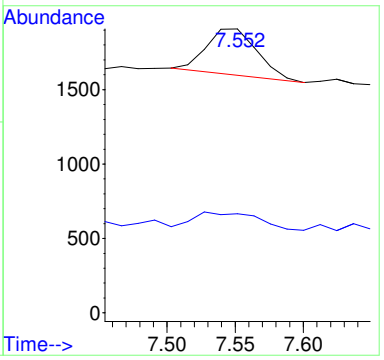


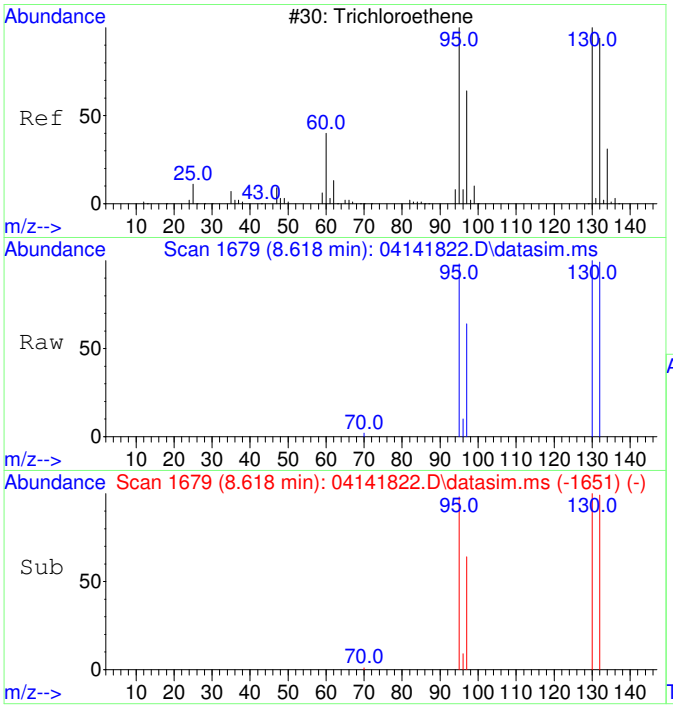


#9
Benzene
Concen: 30.33 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 78 Resp: 765

Ion	Ratio	Lower	Upper
78	100		
77	0.0	0.0	53.6

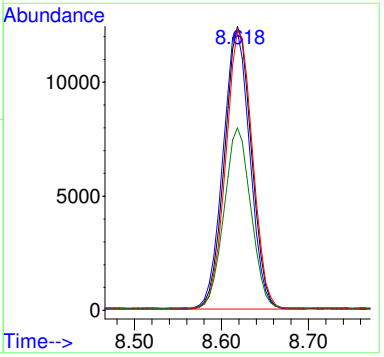


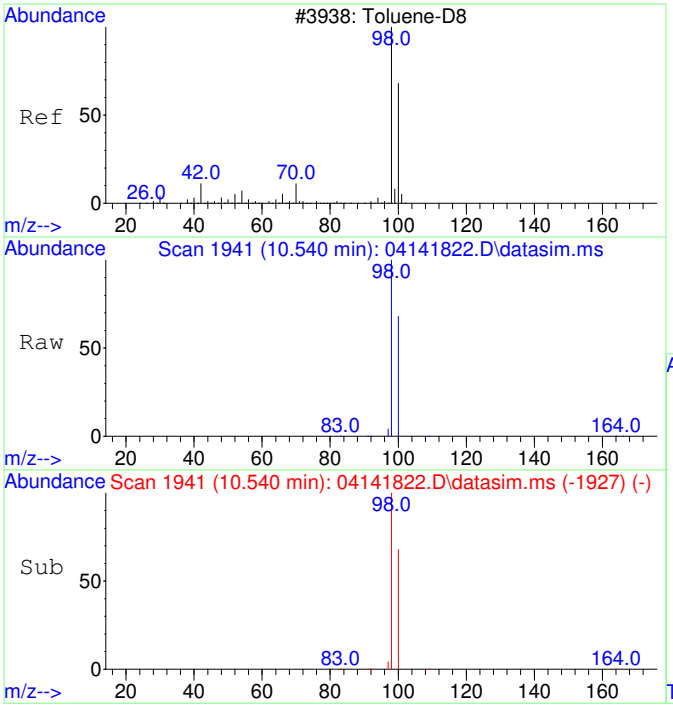


#11
Trichloroethene
Concen: 3826.40 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion:130 Resp: 26596

Ion	Ratio	Lower	Upper
130	100		
95	98.3	68.8	128.8
132	98.3	78.6	118.6
97	63.2	43.7	83.7

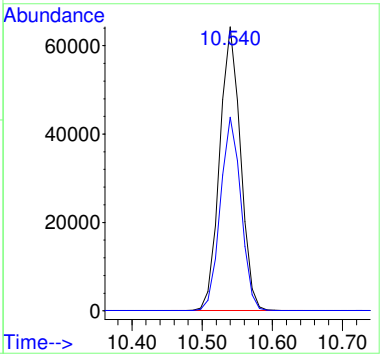


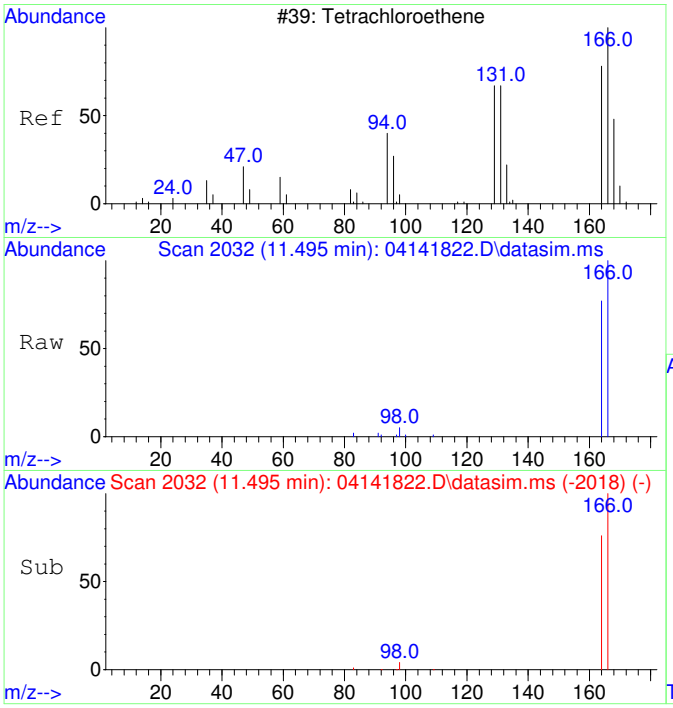


#12
Toluene-d8
Concen: 4989.66 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 98 Resp: 131893

Ion	Ratio	Lower	Upper
98	100		
100	67.6	36.9	96.9

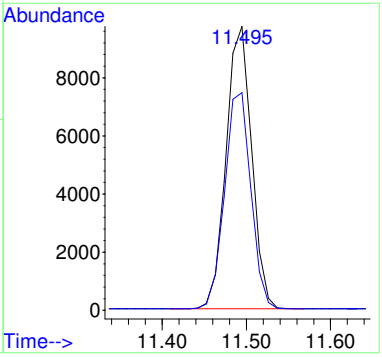


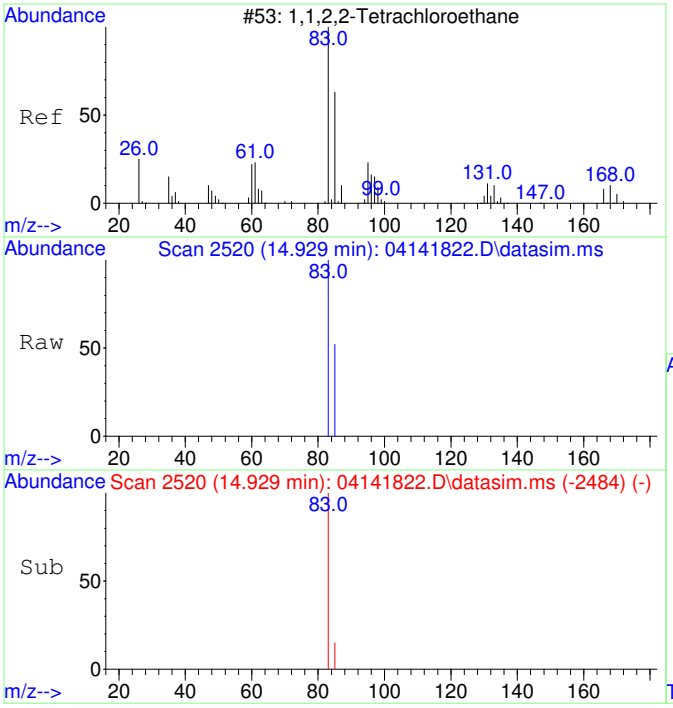


#15
Tetrachloroethene
Concen: 2253.77 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion:166 Resp: 20552

Ion	Ratio	Lower	Upper
166	100		
164	78.4	48.0	108.0

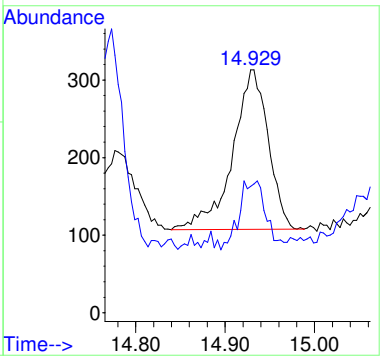


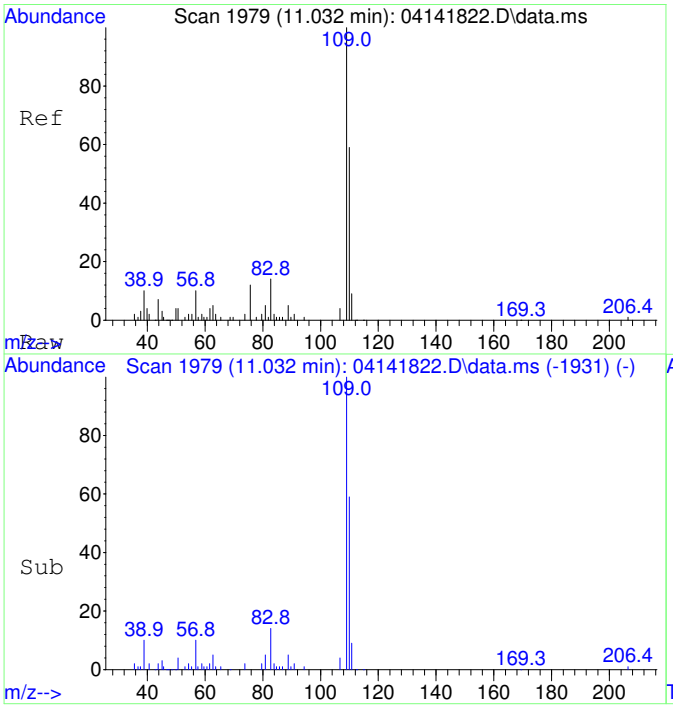


#21
1,1,2,2-Tetrachloroethane
Concen: 39.44 ug/L
RT: 14.929 min Scan# 2520
Delta R.T. -0.015 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 83 Resp: 570

Ion	Ratio	Lower	Upper
83	100		
85	32.3	34.3	94.3#

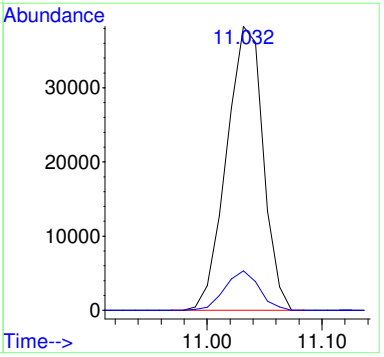


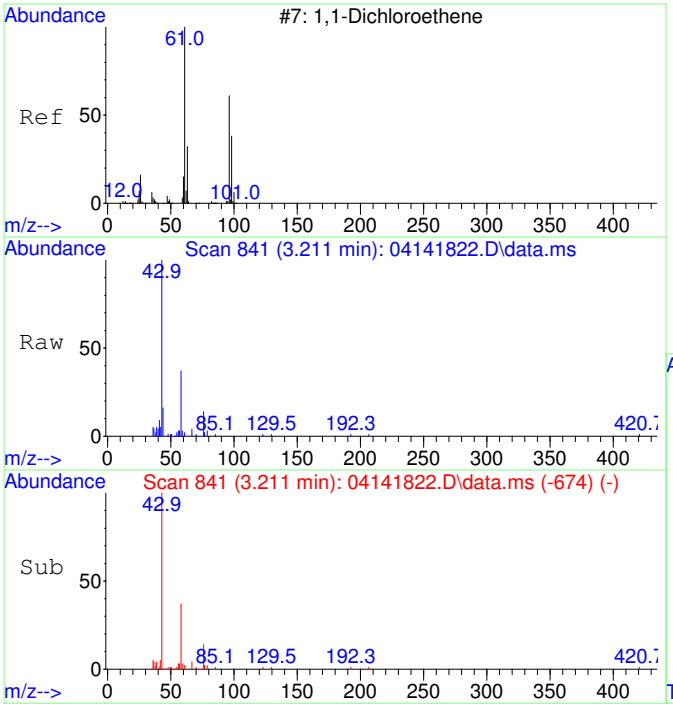


#25
2-Fluorotoluene SCAN
Concen: 5575.57 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion:109 Resp: 84844

Ion	Ratio	Lower	Upper
109	100		
83	13.0	0.0	49.2

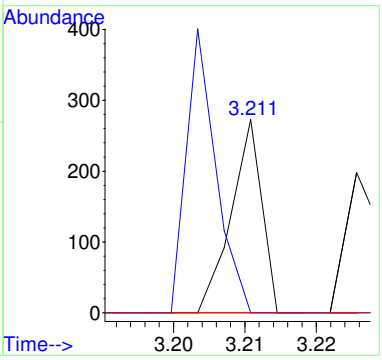


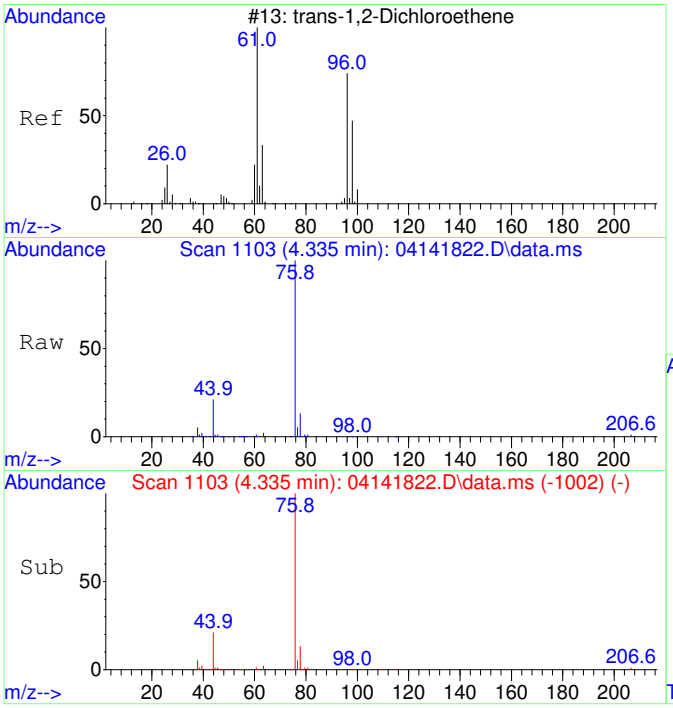


#26
1,1-Dichloroethene SCAN
Concen: 24.02 ug/L
RT: 3.211 min Scan# 841
Delta R.T. 0.118 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 61 Resp: 81

Ion	Ratio	Lower	Upper
61	100		
96	142.0	21.6	81.6#
98	0.0	7.5	67.5#

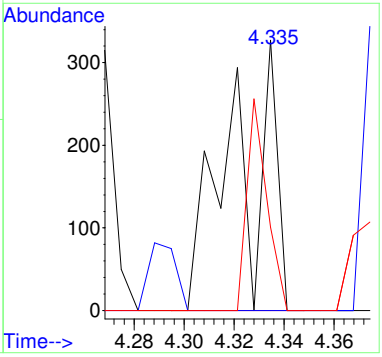


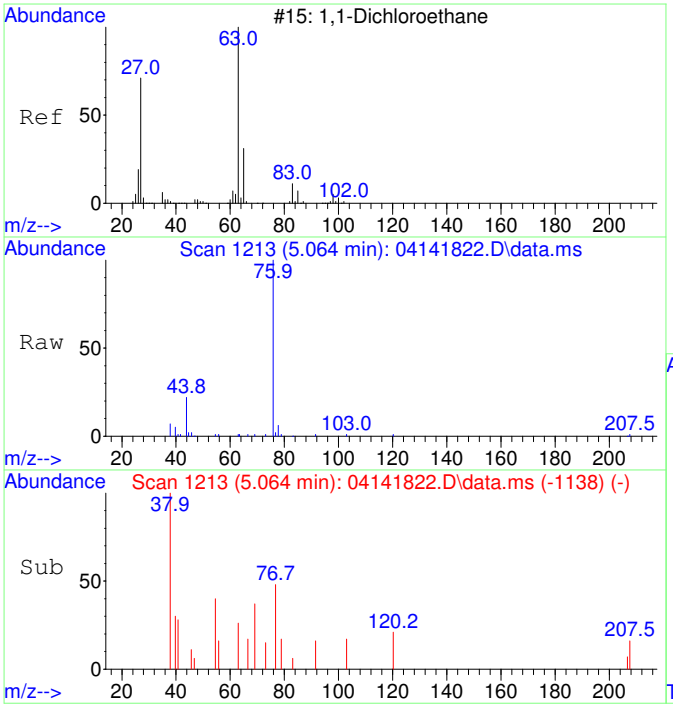


#27
trans-1,2-Dichloroethene SCAN
Concen: 112.88 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. 0.026 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 61 Resp: 373

Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.8	111.8#
98	38.1	22.7	82.7

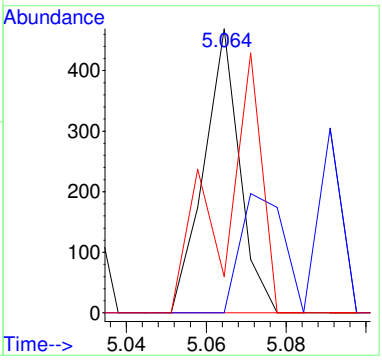


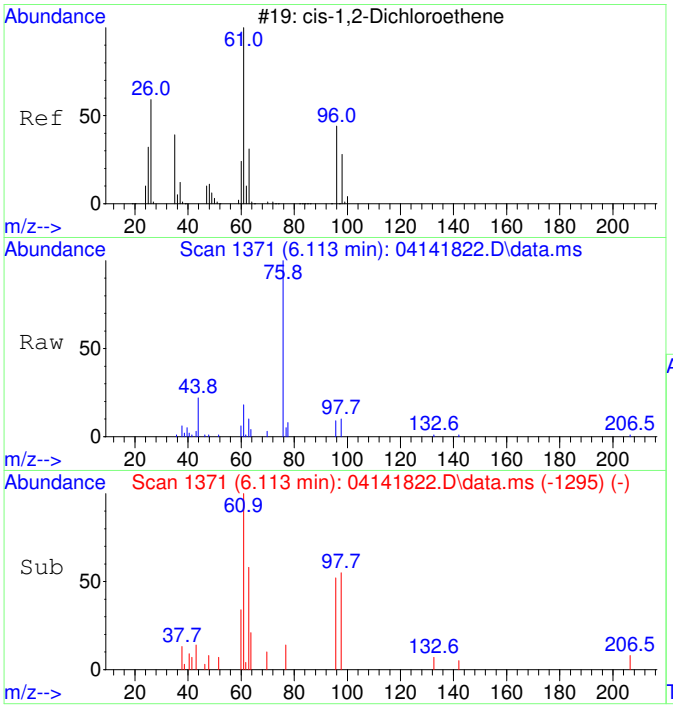


#28
1,1-Dichloroethane SCAN
Concen: 57.55 ug/L
RT: 5.064 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 63 Resp: 291

Ion	Ratio	Lower	Upper
63	100		
65	50.9	2.2	62.2
83	99.3	0.0	38.2#

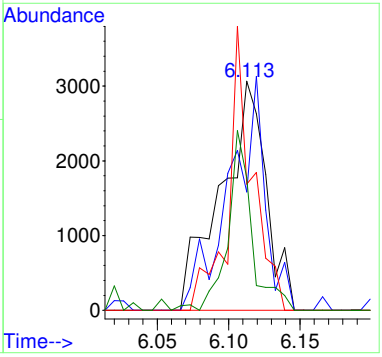


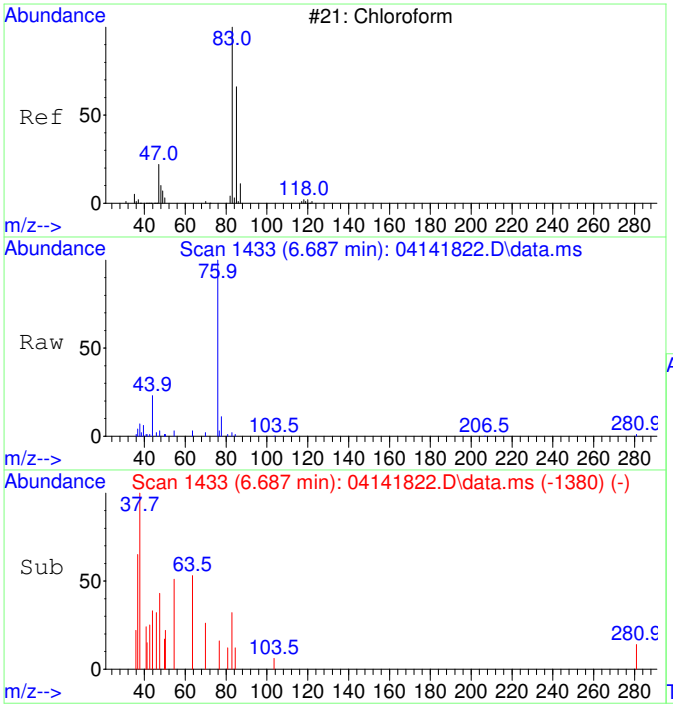


#29
cis-1,2-Dichloroethene SCAN
Concen: 1697.89 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.006 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 61 Resp: 6739

Ion	Ratio	Lower	Upper
61	100		
96	79.6	49.4	109.4
98	65.4	9.5	69.5
63	38.8	0.0	60.0

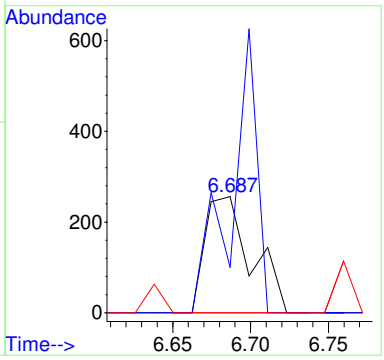


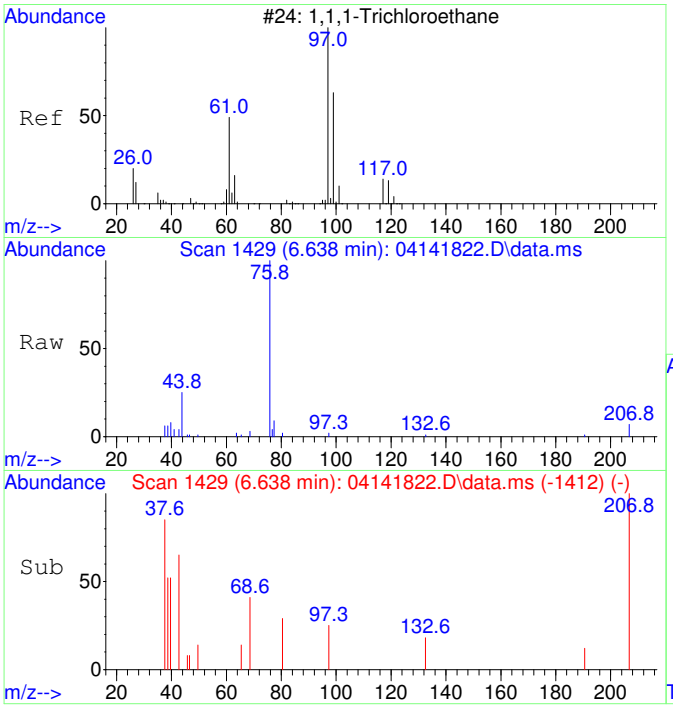


#30
Chloroform SCAN
Concen: 110.67 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 83 Resp: 530

Ion	Ratio	Lower	Upper
83	100		
85	136.4	47.8	107.8#
47	0.0	8.2	68.2#

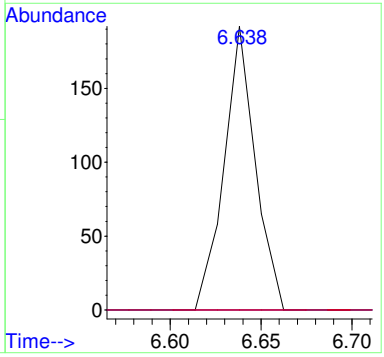


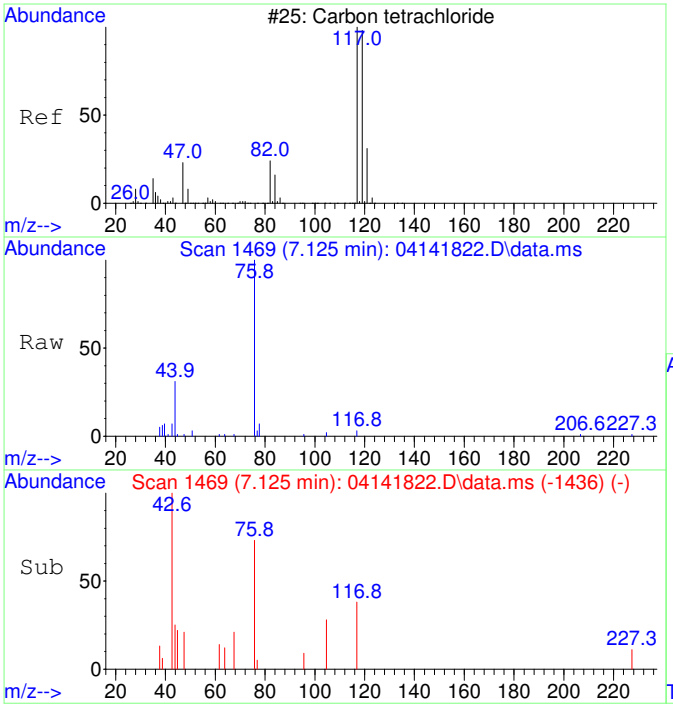


#31
1,1,1-Trichloroethane SCAN
Concen: 38.27 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.292 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 97 Resp: 230

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

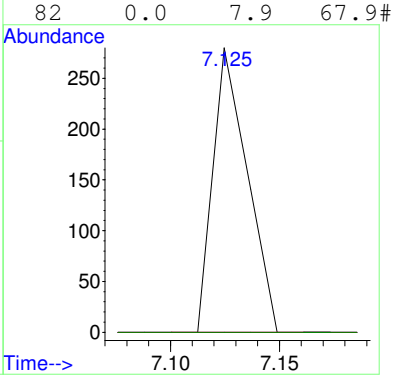


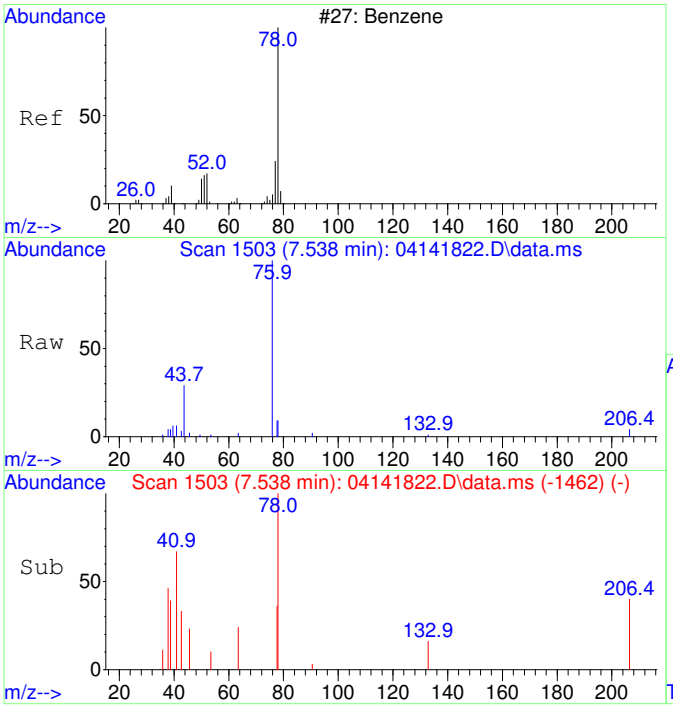


#32
Carbon tetrachloride SCAN
Concen: 71.03 ug/L
RT: 7.125 min Scan# 1469
Delta R.T. -0.098 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion:117 Resp: 307

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

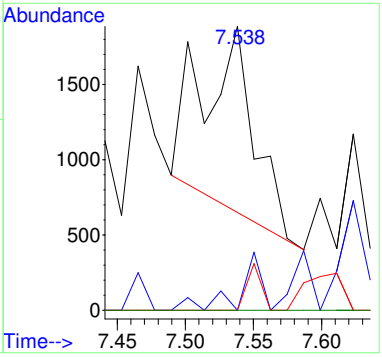


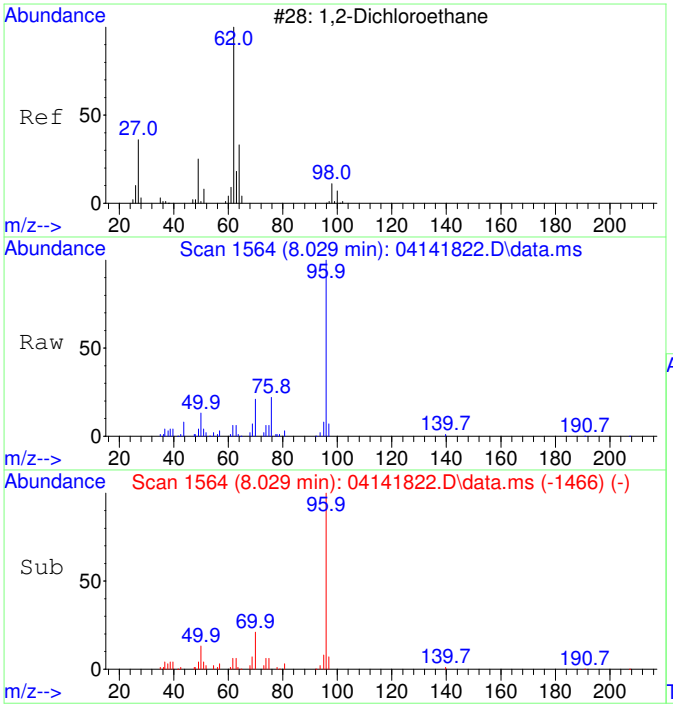


#33
Benzene SCAN
Concen: 225.69 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 78 Resp: 2957

Ion	Ratio	Lower	Upper
78	100		
77	14.7	5.4	65.4
51	7.6	0.0	47.2
52	0.0	0.0	47.4

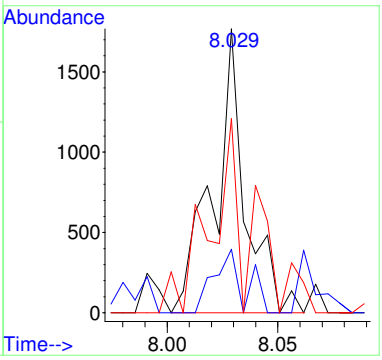


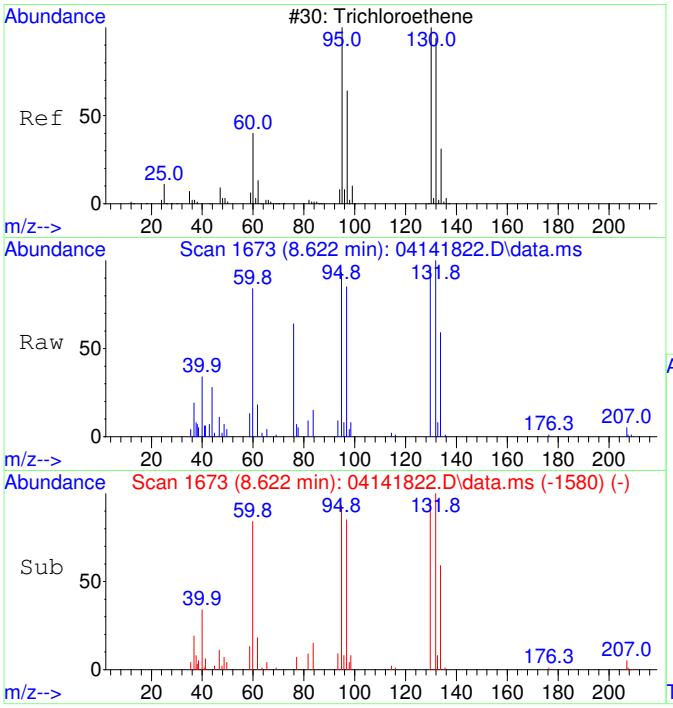


#34
1,2-Dichloroethane SCAN
Concen: 353.26 ug/L
RT: 8.029 min Scan# 1564
Delta R.T. 0.442 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 62 Resp: 1755

Ion	Ratio	Lower	Upper
62	100		
64	21.4	4.4	64.4
49	56.2	1.2	61.2

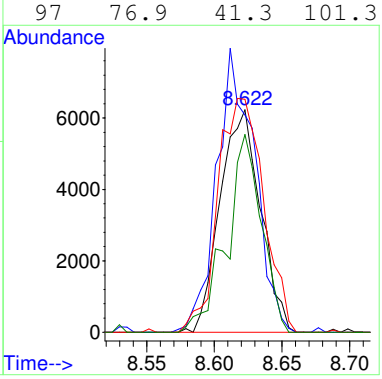


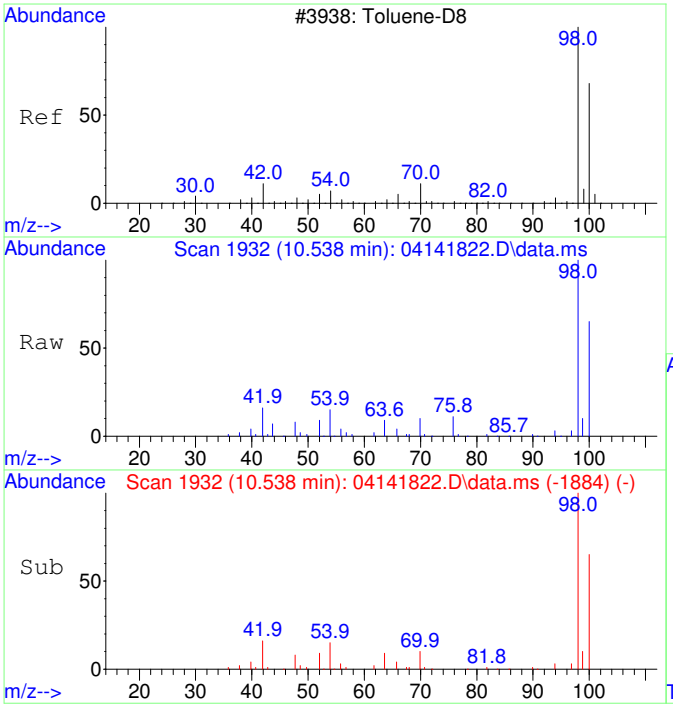


#35
Trichloroethene SCAN
Concen: 3947.02 ug/L
RT: 8.622 min Scan# 1673
Delta R.T. 0.005 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion:130 Resp: 12993

Ion	Ratio	Lower	Upper
130	100		
95	118.5	71.3	131.3
132	118.2	75.1	135.1
97	76.9	41.3	101.3

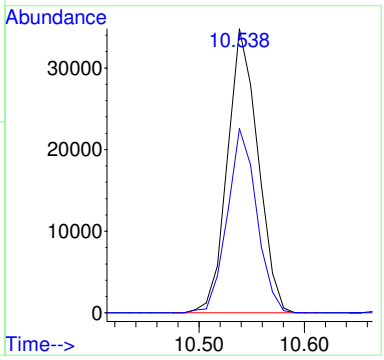


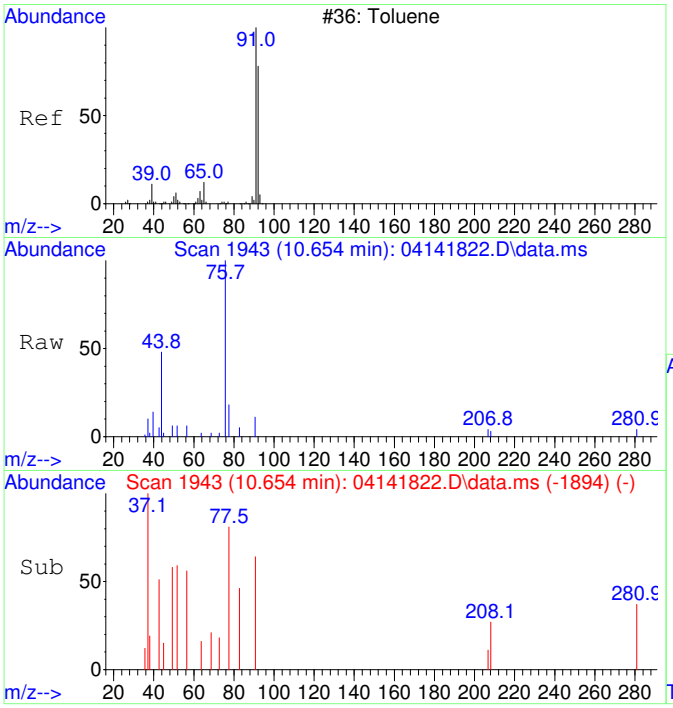


#36
Toluene-d8 SCAN
Concen: 5251.02 ug/L
RT: 10.538 min Scan# 1932
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 98 Resp: 70157

Ion	Ratio	Lower	Upper
98	100		
100	62.5	37.3	97.3

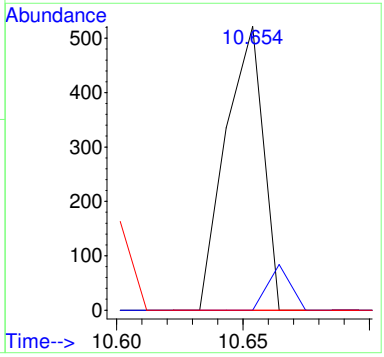


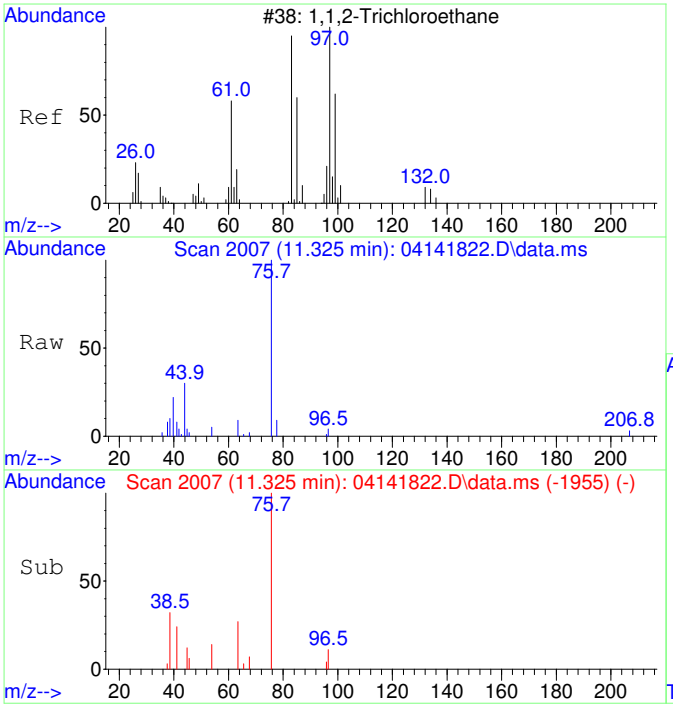


#37
Toluene SCAN
Concen: 36.14 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 91 Resp: 540

Ion	Ratio	Lower	Upper
91	100		
92	9.8	39.1	99.1#
65	0.0	0.0	43.8

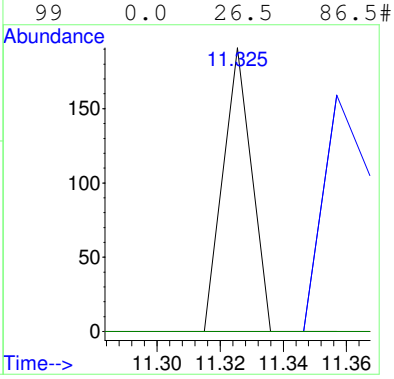


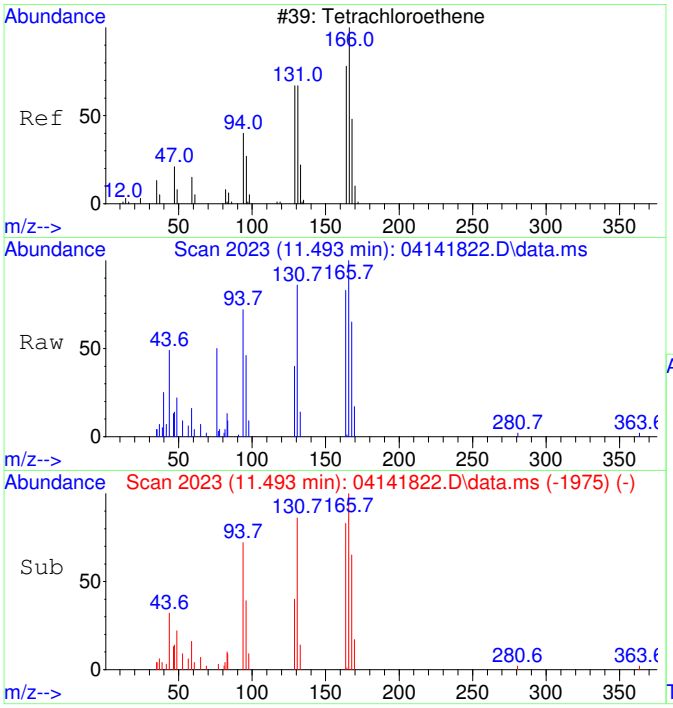


#38
1,1,2-Trichloroethane SCAN
Concen: 26.22 ug/L
RT: 11.325 min Scan# 2007
Delta R.T. 0.042 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 97 Resp: 120

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

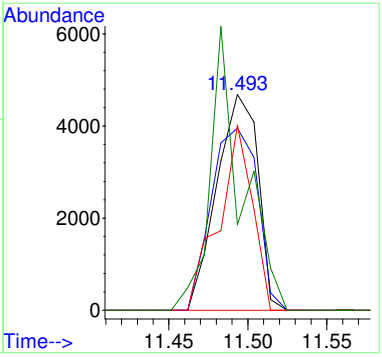


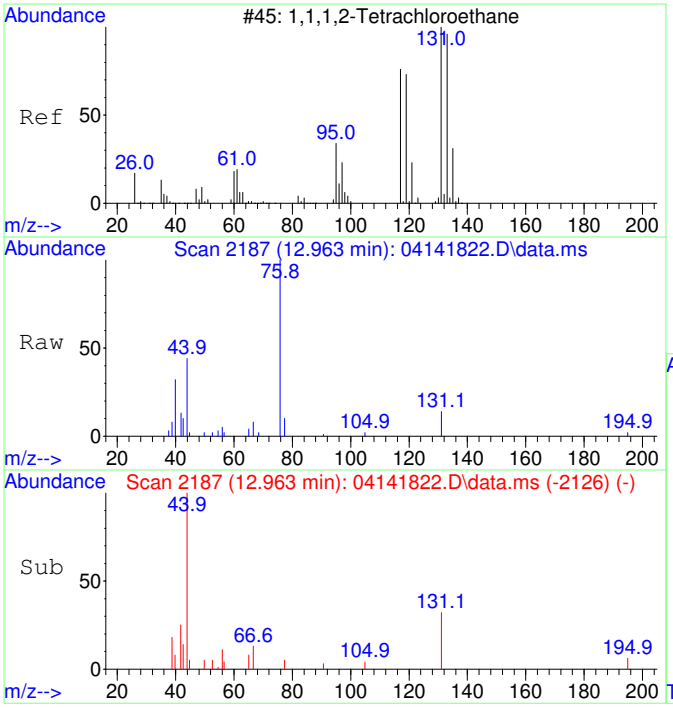


#39
Tetrachloroethene SCAN
Concen: 1740.01 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion:166 Resp: 8479

Ion	Ratio	Lower	Upper
166	100		
164	95.2	49.8	109.8
131	70.6	42.0	102.0
129	101.4	30.1	90.1#

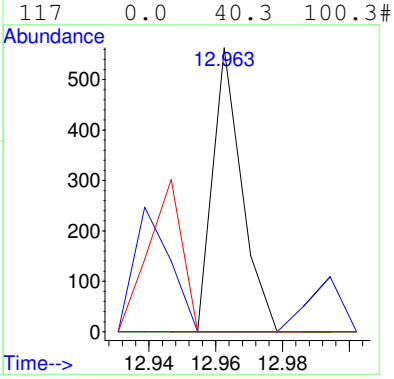


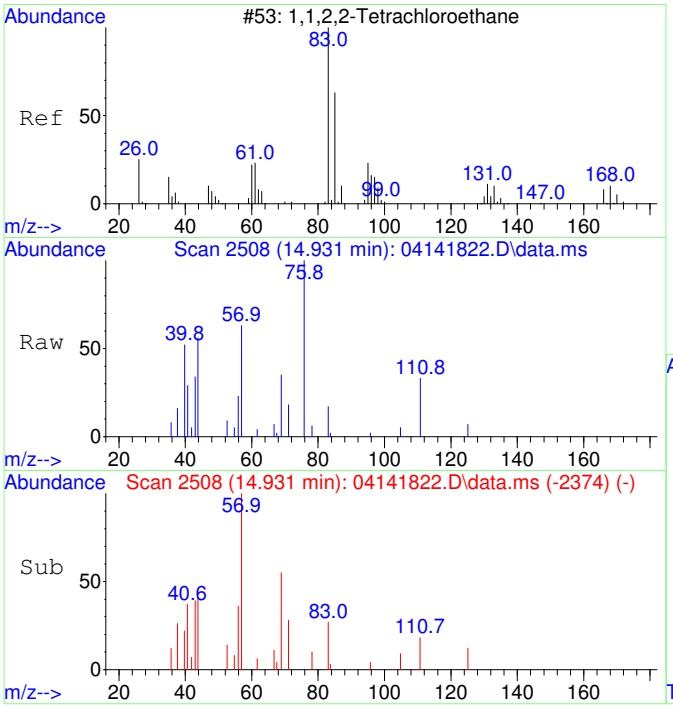


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 89.06 ug/L
RT: 12.963 min Scan# 2187
Delta R.T. -0.016 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion:131 Resp: 340

Ion	Ratio	Lower	Upper
131	100		
133	0.0	78.7	138.7#
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

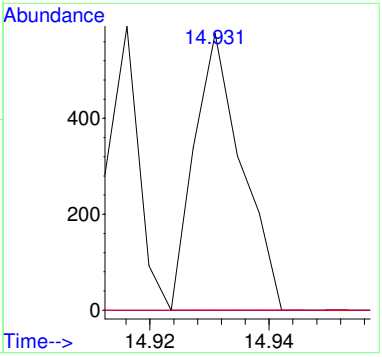


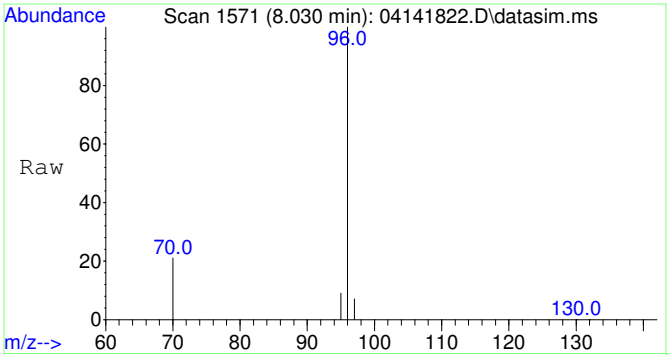


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 35.42 ug/L
RT: 14.931 min Scan# 2508
Delta R.T. -0.004 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 83 Resp: 320

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.4	92.4#
95	0.0	0.0	41.2

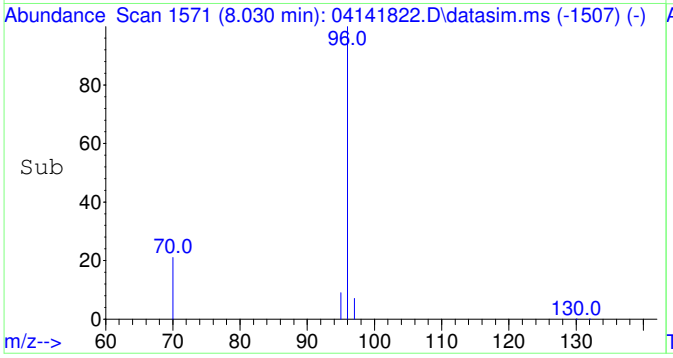


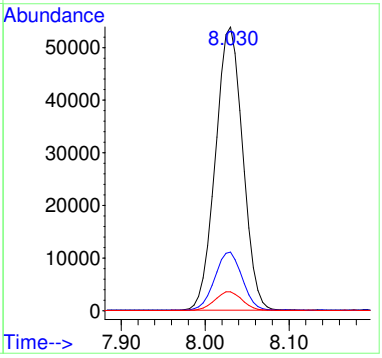


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.030 min Scan# 1571
Delta R.T. 0.005 min
Lab File: 04141822.D
Acq: 14 Apr 2018 19:10

Tgt Ion: 96 Resp: 121237

Ion	Ratio	Lower	Upper
96	100		
70	20.5	0.0	50.7
97	6.6	0.0	36.7





1804005-02RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141823.D
Acq On : 14 Apr 2018 19:34
InstName : AG5975C
Operator : RH
Sample : 1804005-02RE1
Misc : 10 UL- 1 ML
ALS Vial : 23 Sample Multiplier: 100

Quant Time: Apr 16 09:39:28 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

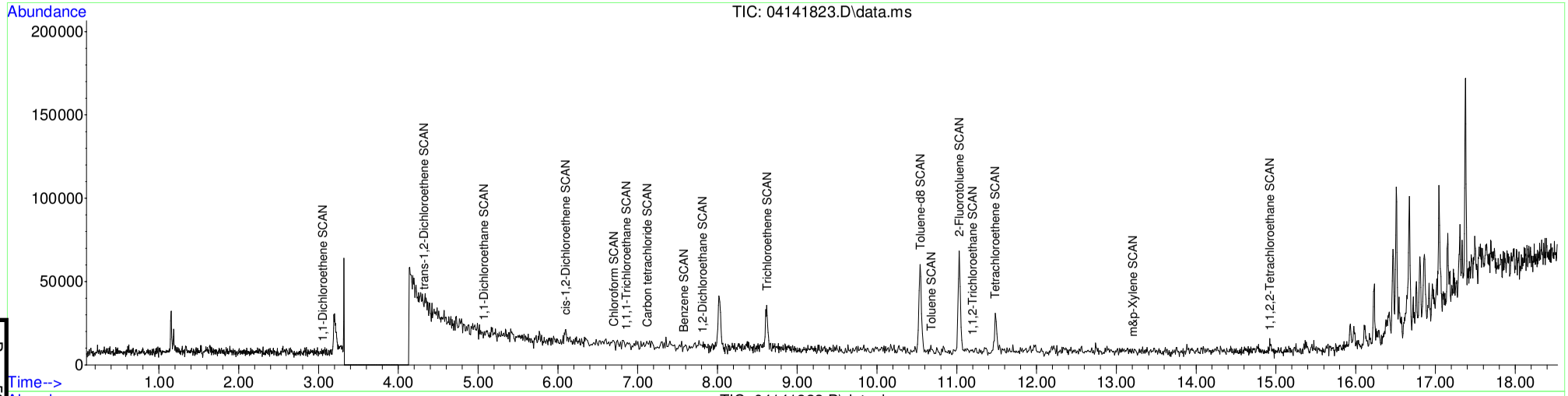
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 2-Fluorotoluene	11.033	109	84519	5000.00	ug/L	0.00	
49) Fluorobenzene	8.025	96	58209	5000.00	ug/L	0.00	
System Monitoring Compounds							
12) Toluene-d8	10.540	98	70565	4974.17	ug/L	0.00	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 99.48%				
Target Compounds						Qvalue	
3] trans-1,2-Dichloroethene	4.303	61	381	100.50	ug/L	86	
5] cis-1,2-Dichloroethene	6.101	61	5787	1239.28	ug/L	100	RPT
6] Chloroform	6.676	83	804	146.40	ug/L	90	
9] Benzene	7.540	78	479	35.38	ug/L	91	
11] Trichloroethene	8.619	130	13754	3687.10	ug/L	100	RPT
15] Tetrachloroethene	11.495	166	11496	2349.00	ug/L	100	RPT
21] 1,1,2,2-Tetrachloroethane	14.929	83	408	52.60	ug/L #	57	
25) 2-Fluorotoluene SCAN	11.032	109	49840	6102.79	ug/L	96	
26) 1,1-Dichloroethene SCAN	3.052	61	72	39.78	ug/L #	31	
27) trans-1,2-Dichloroethe...	4.315	61	127	71.61	ug/L #	15	
28) 1,1-Dichloroethane SCAN	5.071	63	175	64.49	ug/L #	49	
29) cis-1,2-Dichloroethene...	6.100	61	2888	1355.80	ug/L	82	
30) Chloroform SCAN	6.699	83	451	175.48	ug/L #	19	
31) 1,1,1-Trichloroethane ...	6.857	97	92	28.53	ug/L #	29	
32) Carbon tetrachloride SCAN	7.113	117	153	65.96	ug/L #	22	
33) Benzene SCAN	7.575	78	1591	226.26	ug/L #	50	
34) 1,2-Dichloroethane SCAN	7.817	62	169	63.38	ug/L #	1	
35) Trichloroethene SCAN	8.617	130	7809	4420.15	ug/L	95	
36) Toluene-d8 SCAN	10.539	98	38246	5333.85	ug/L	97	
37) Toluene SCAN	10.675	91	768	95.77	ug/L #	29	
38) 1,1,2-Trichloroethane ...	11.200	97	304	123.78	ug/L #	17	
39) Tetrachloroethene SCAN	11.483	166	5025	1921.43	ug/L #	58	
43) m&p-Xylene SCAN	13.209	91	566	33.09	ug/L #	43	
45) 1,1,2,2-Tetrachloroeth...	14.928	83	220	45.37	ug/L #	74	

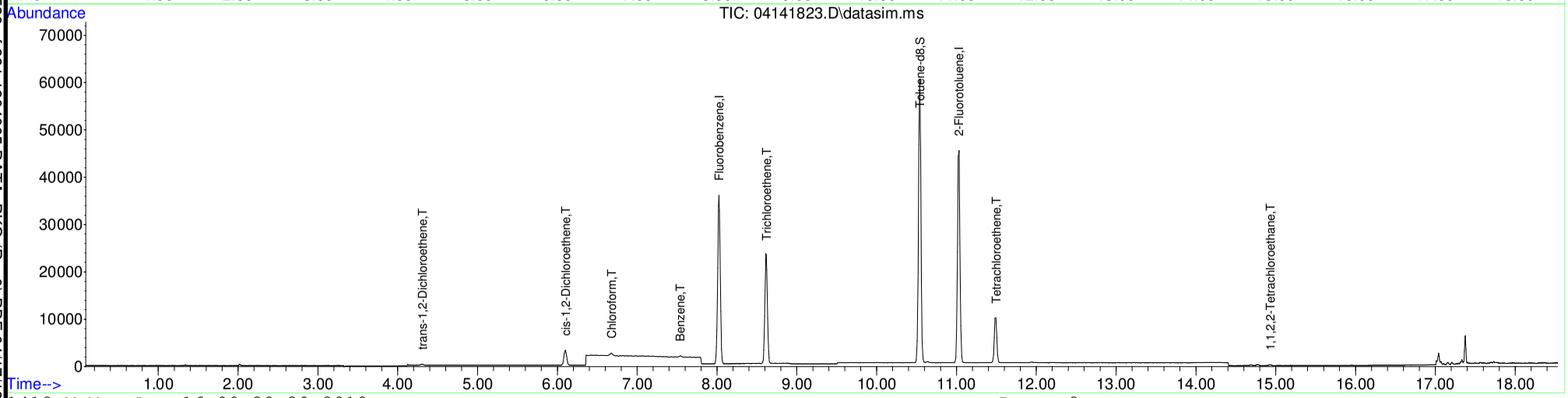
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141823.D
Acq On : 14 Apr 2018 19:34
InstName : AG5975C
Operator : RH
Sample : 1804005-02RE1
Misc : 10 UL- 1 ML
ALS Vial : 23 Sample Multiplier: 100

Quant Time: Apr 16 09:39:28 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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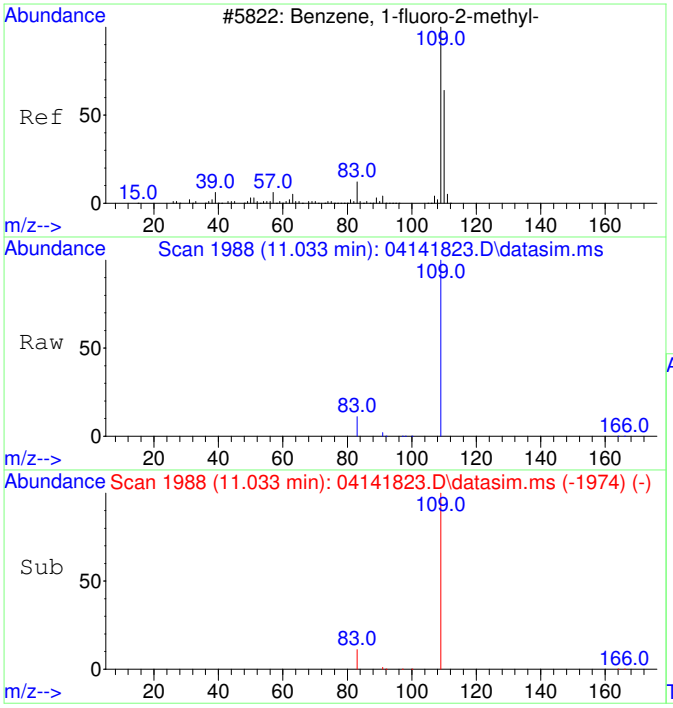
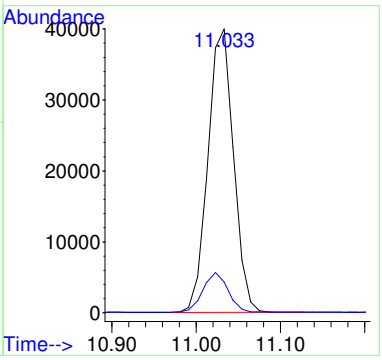
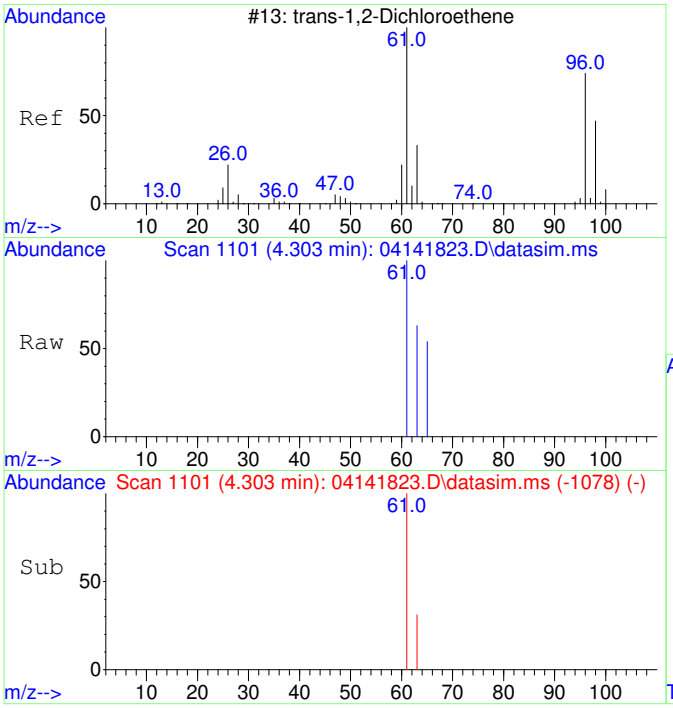


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion:109 Resp: 84519

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

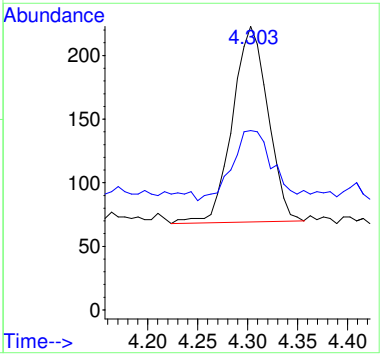


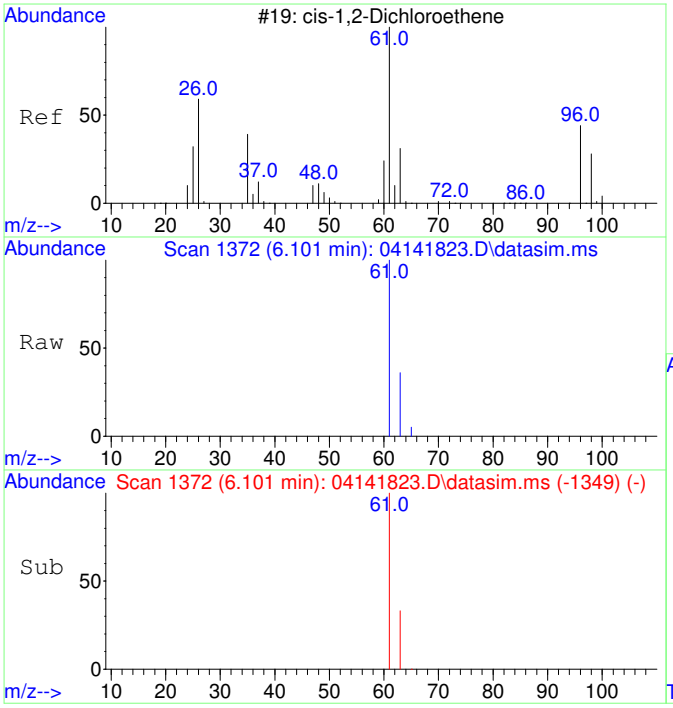


#3
trans-1,2-Dichloroethene
Concen: 100.50 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 61 Resp: 381

Ion	Ratio	Lower	Upper
61	100		
63	39.9	2.0	62.0

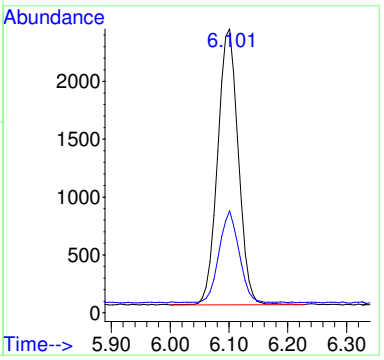


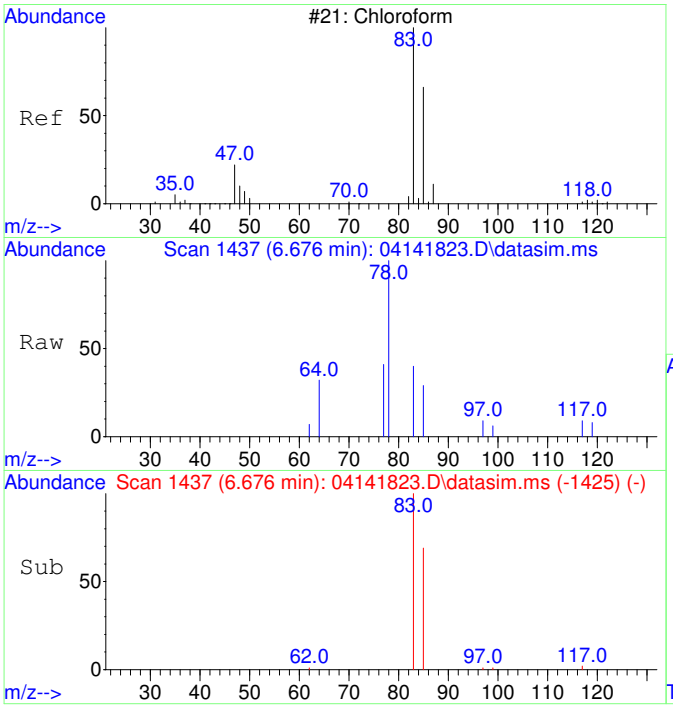


#5
cis-1,2-Dichloroethene
Concen: 1239.28 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 61 Resp: 5787

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.0	62.0

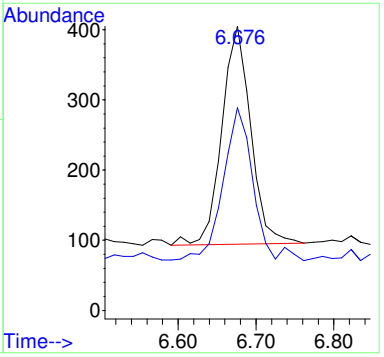


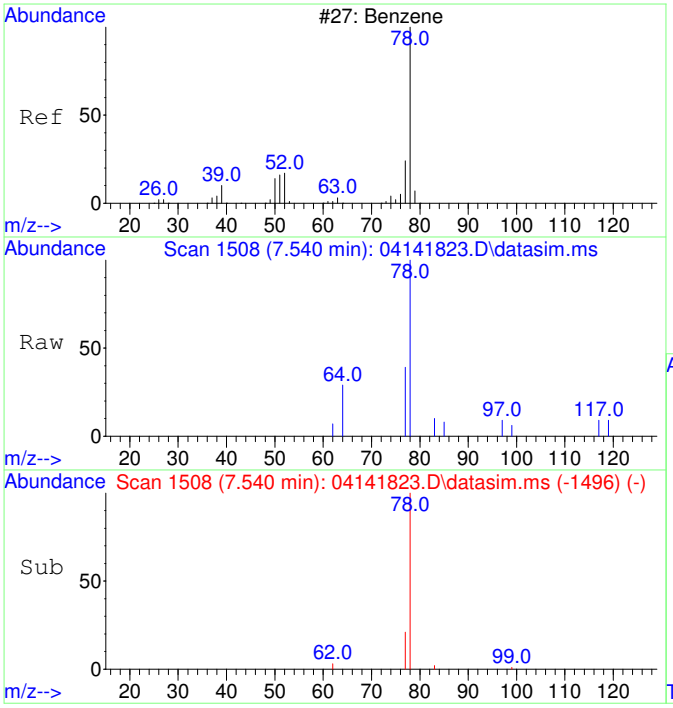


#6
Chloroform
Concen: 146.40 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 83 Resp: 804

Ion	Ratio	Lower	Upper
83	100		
85	72.0	34.2	94.2

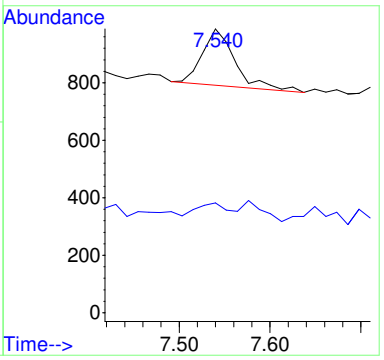


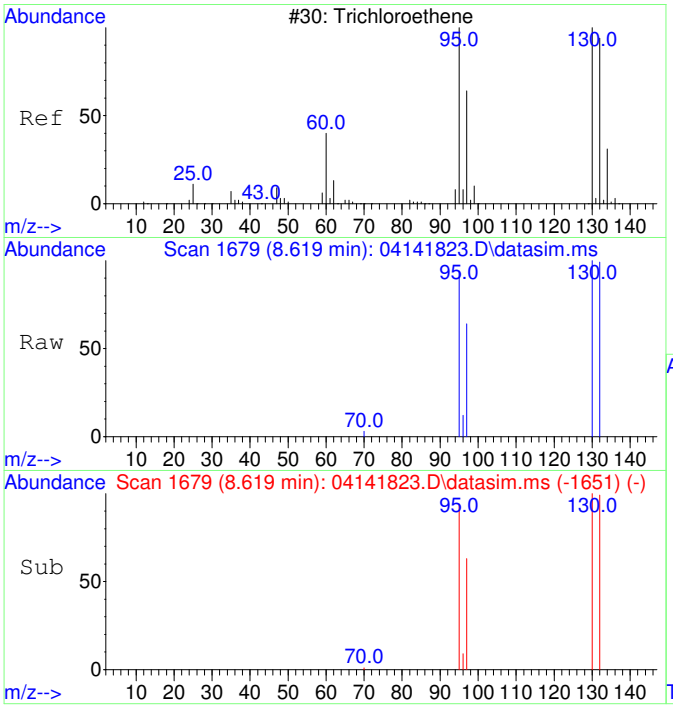


#9
Benzene
Concen: 35.38 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 78 Resp: 479

Ion	Ratio	Lower	Upper
78	100		
77	28.2	0.0	53.6

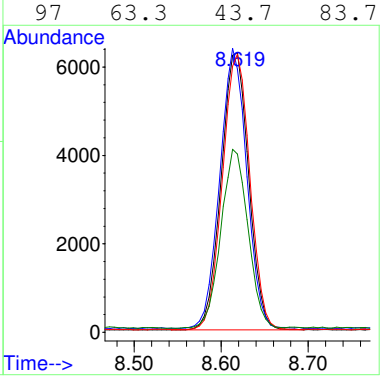


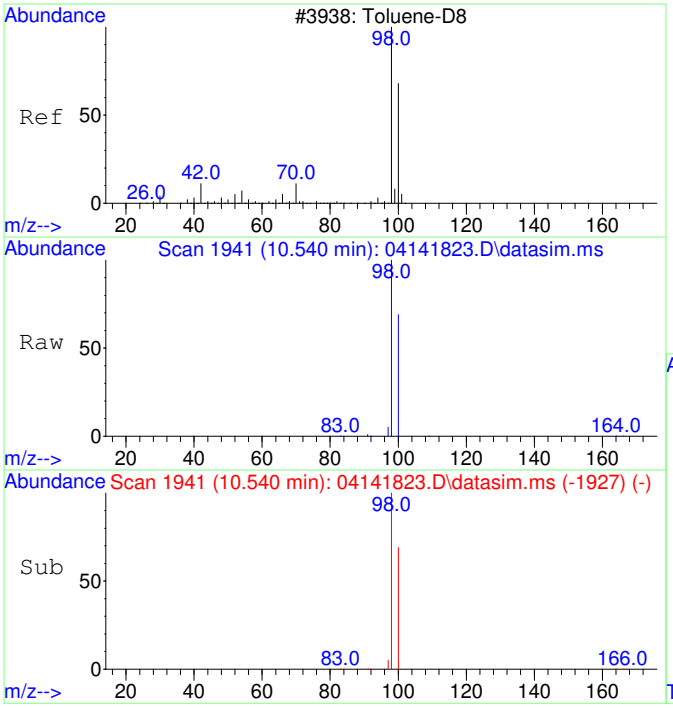


#11
Trichloroethene
Concen: 3687.10 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion:130 Resp: 13754

Ion	Ratio	Lower	Upper
130	100		
95	98.6	68.8	128.8
132	99.0	78.6	118.6
97	63.3	43.7	83.7

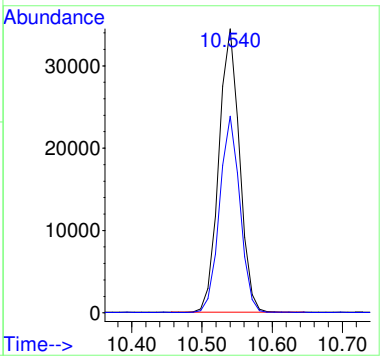


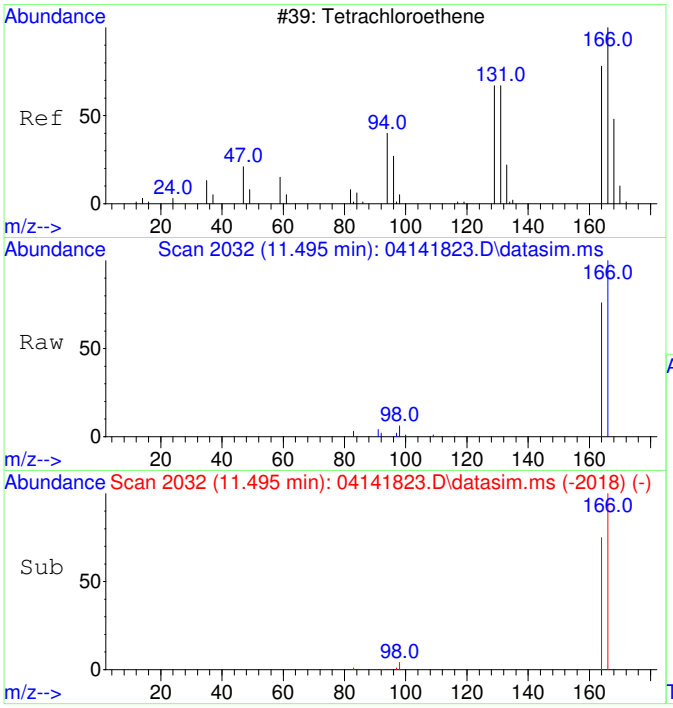


#12
Toluene-d8
Concen: 4974.17 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 98 Resp: 70565

Ion	Ratio	Lower	Upper
98	100		
100	68.0	36.9	96.9

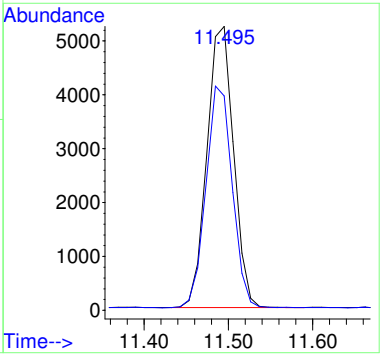


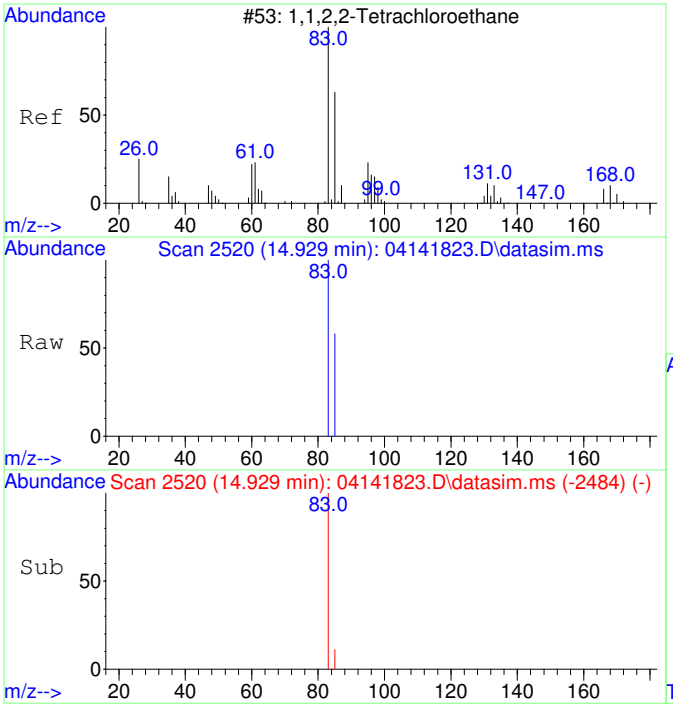


#15
Tetrachloroethene
Concen: 2349.00 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion:166 Resp: 11496

Ion	Ratio	Lower	Upper
166	100		
164	77.9	48.0	108.0

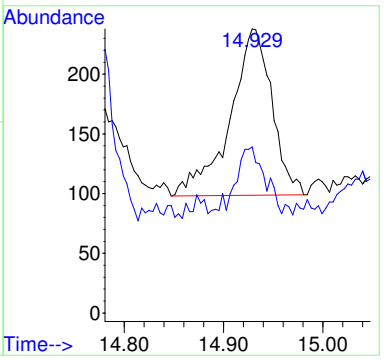


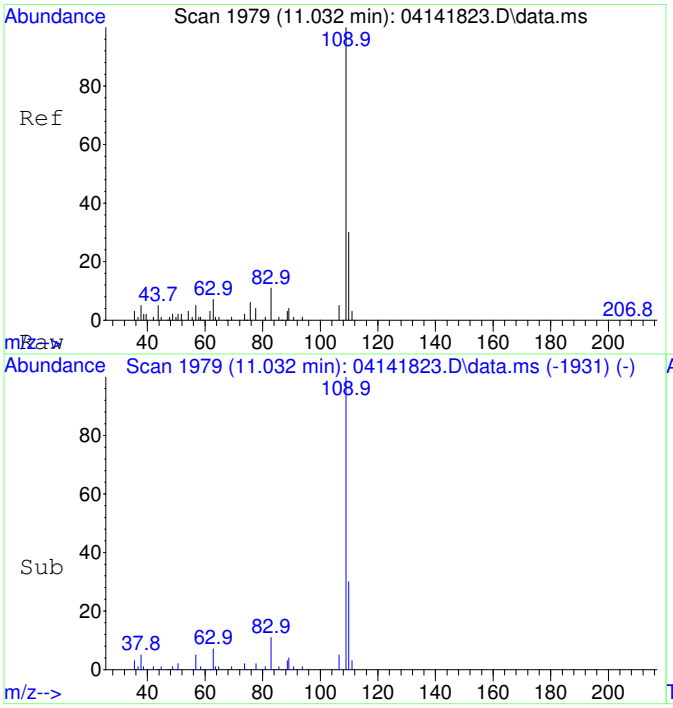


#21
1,1,2,2-Tetrachloroethane
Concen: 52.60 ug/L
RT: 14.929 min Scan# 2520
Delta R.T. -0.015 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 83 Resp: 408

Ion	Ratio	Lower	Upper
83	100		
85	30.4	34.3	94.3#

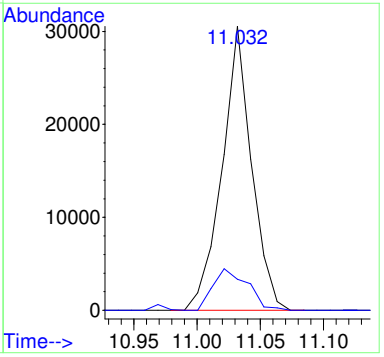


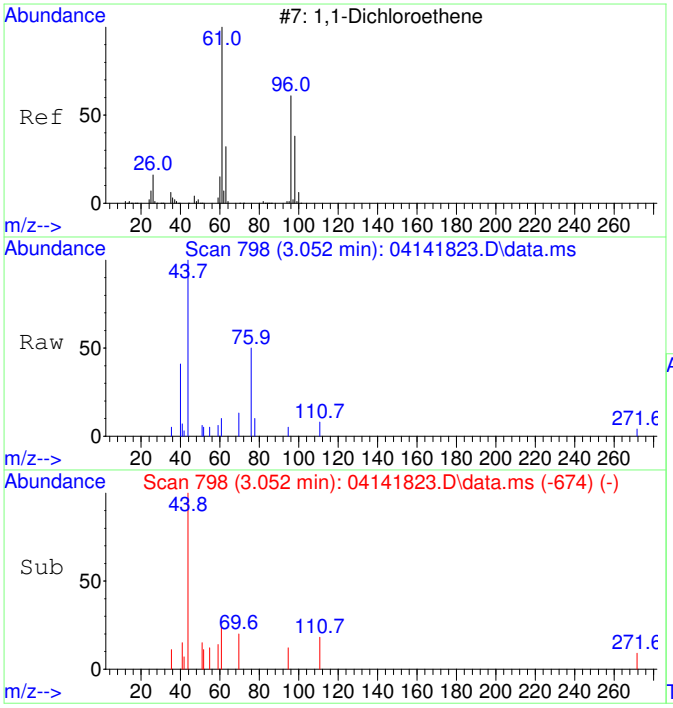


#25
2-Fluorotoluene SCAN
Concen: 6102.79 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion:109 Resp: 49840

Ion	Ratio	Lower	Upper
109	100		
83	17.2	0.0	49.2

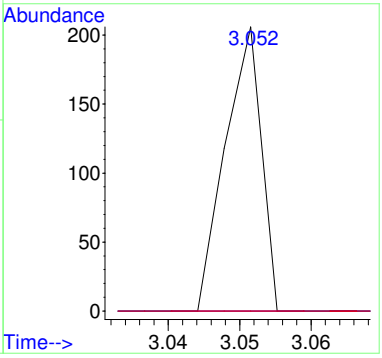


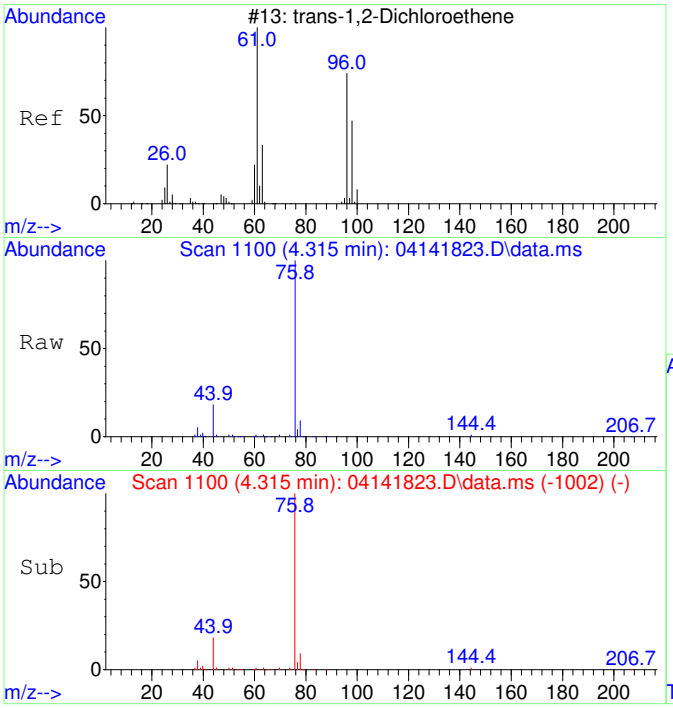


#26
1,1-Dichloroethene SCAN
Concen: 39.78 ug/L
RT: 3.052 min Scan# 798
Delta R.T. -0.041 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 61 Resp: 72

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.6	81.6#
98	0.0	7.5	67.5#

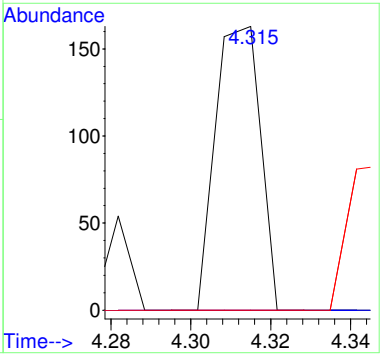


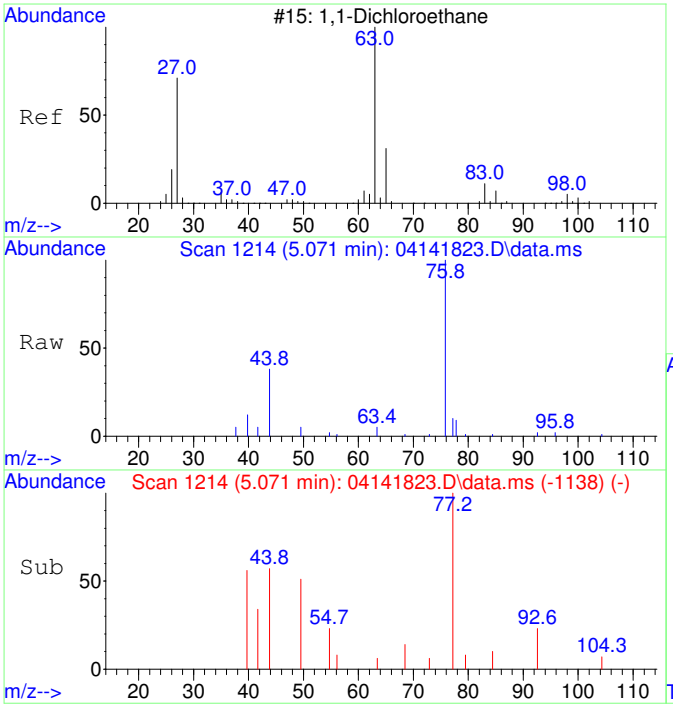


#27
trans-1,2-Dichloroethene SCAN
Concen: 71.61 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. 0.007 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 61 Resp: 127

Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.8	111.8#
98	0.0	22.7	82.7#

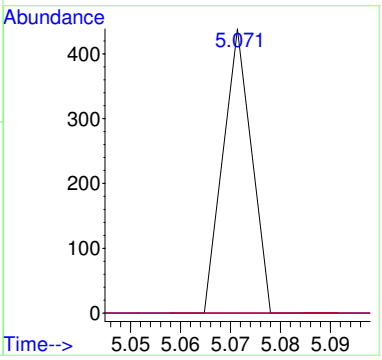


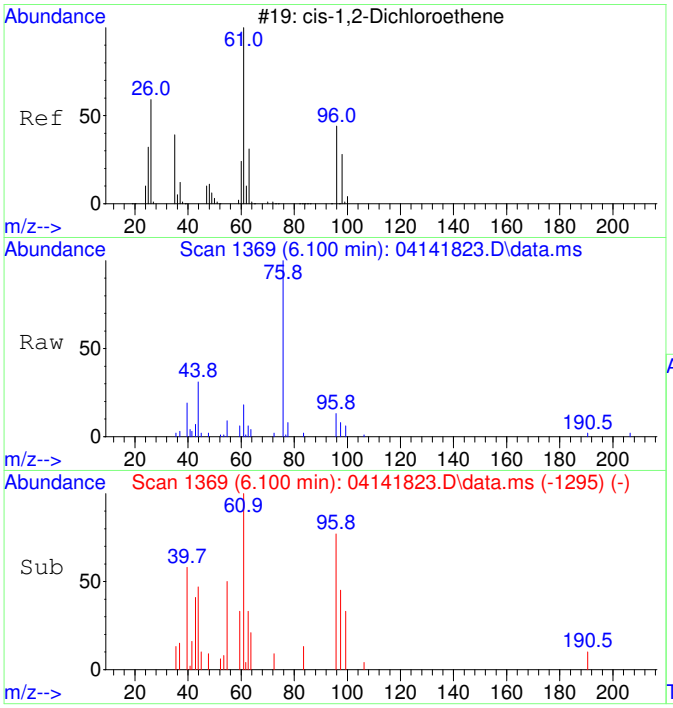


#28
1,1-Dichloroethane SCAN
Concen: 64.49 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 63 Resp: 175

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	0.0	0.0	38.2

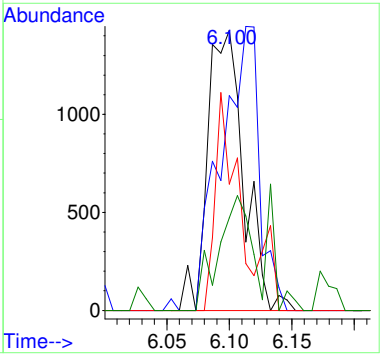


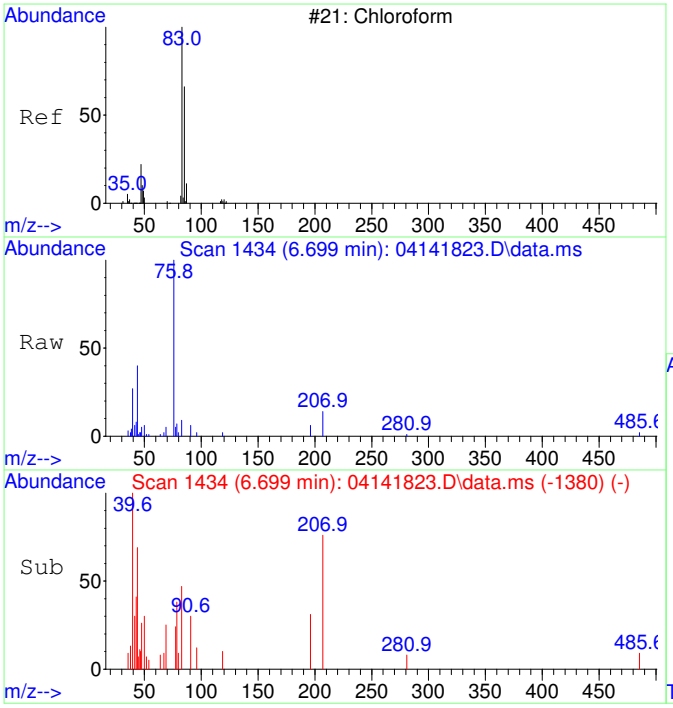


#29
cis-1,2-Dichloroethene SCAN
Concen: 1355.80 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.007 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 61 Resp: 2888

Ion	Ratio	Lower	Upper
61	100		
96	105.6	49.4	109.4
98	38.4	9.5	69.5
63	33.7	0.0	60.0

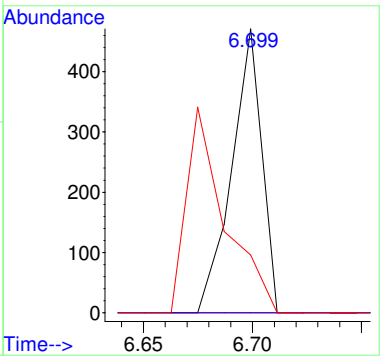


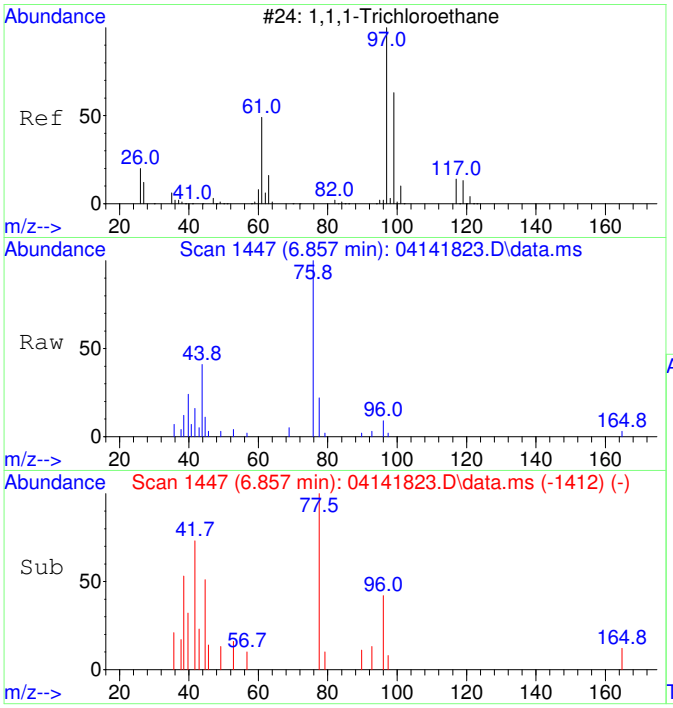


#30
Chloroform SCAN
Concen: 175.48 ug/L
RT: 6.699 min Scan# 1434
Delta R.T. 0.024 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 83 Resp: 451

Ion	Ratio	Lower	Upper
83	100		
85	0.0	47.8	107.8#
47	0.0	8.2	68.2#

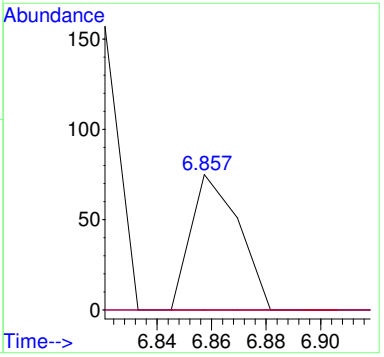


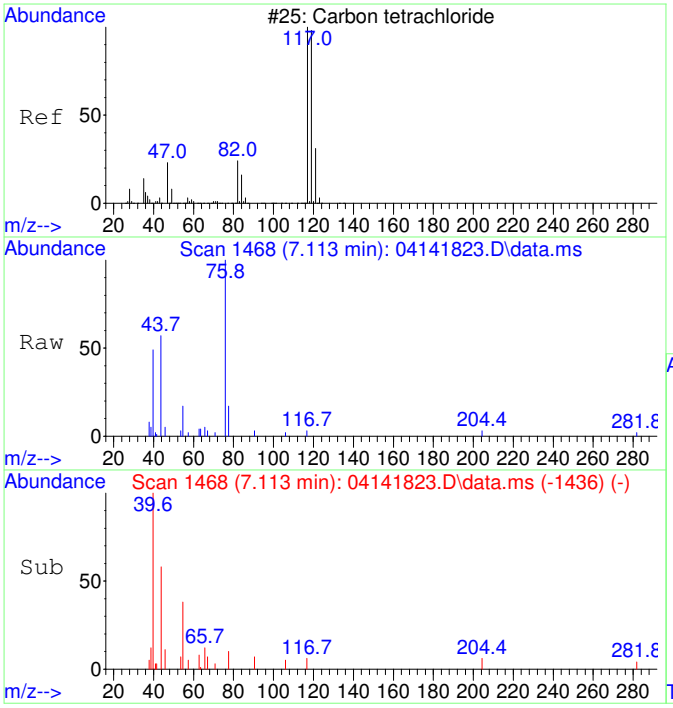


#31
1,1,1-Trichloroethane SCAN
Concen: 28.53 ug/L
RT: 6.857 min Scan# 1447
Delta R.T. -0.073 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 97 Resp: 92

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

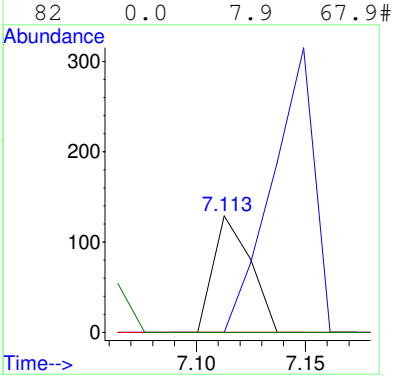


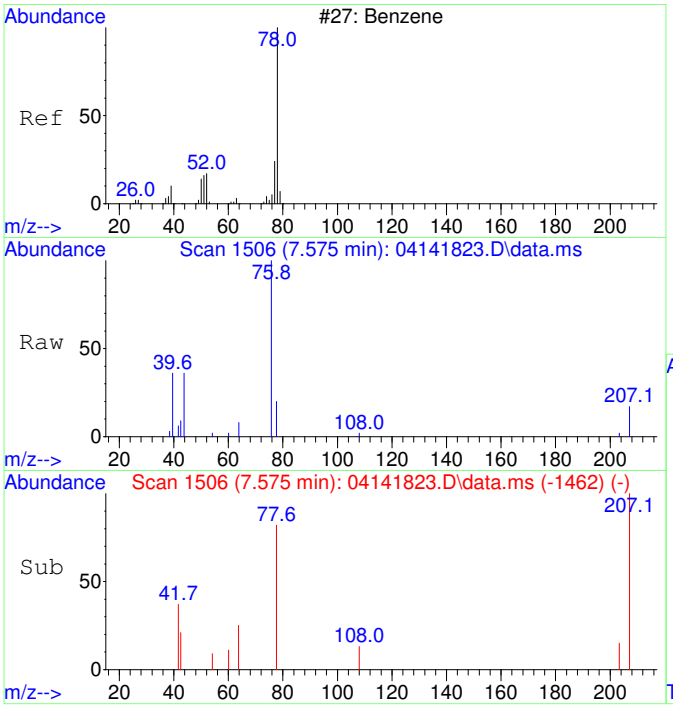


#32
Carbon tetrachloride SCAN
Concen: 65.96 ug/L
RT: 7.113 min Scan# 1468
Delta R.T. -0.109 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion:117 Resp: 153

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

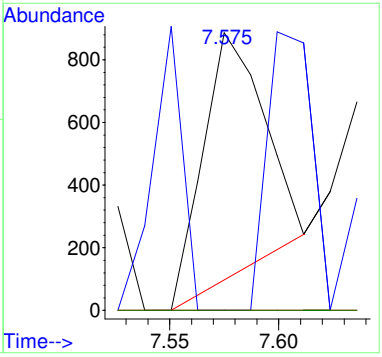


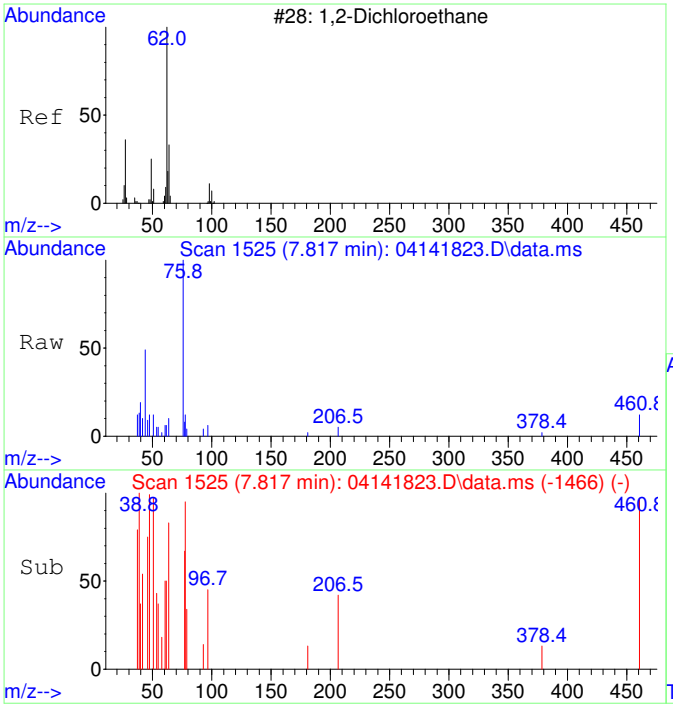


#33
Benzene SCAN
Concen: 226.26 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.037 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 78 Resp: 1591

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	0.0	0.0	47.2
52	0.0	0.0	47.4

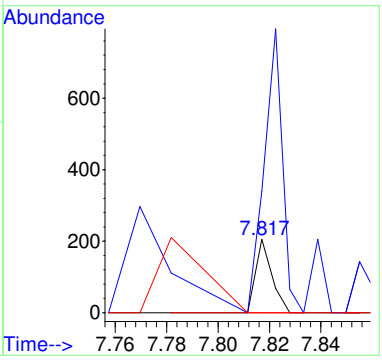


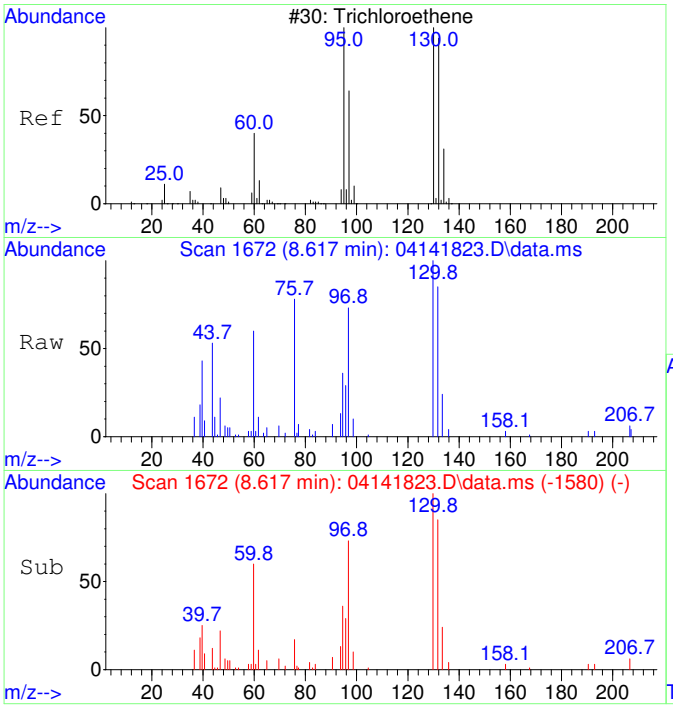


#34
1,2-Dichloroethane SCAN
Concen: 63.38 ug/L
RT: 7.817 min Scan# 1525
Delta R.T. 0.230 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 62 Resp: 169

Ion	Ratio	Lower	Upper
62	100		
64	232.0	4.4	64.4#
49	0.0	1.2	61.2#

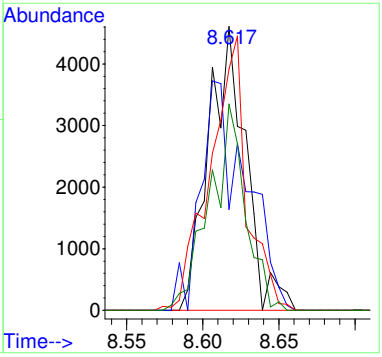


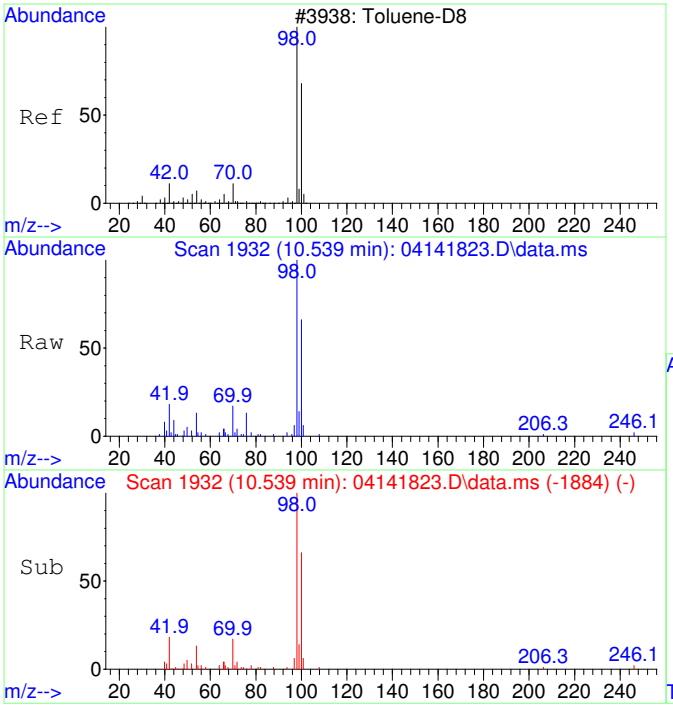


#35
Trichloroethene SCAN
Concen: 4420.15 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion:130 Resp: 7809

Ion	Ratio	Lower	Upper
130	100		
95	97.7	71.3	131.3
132	95.3	75.1	135.1
97	69.6	41.3	101.3

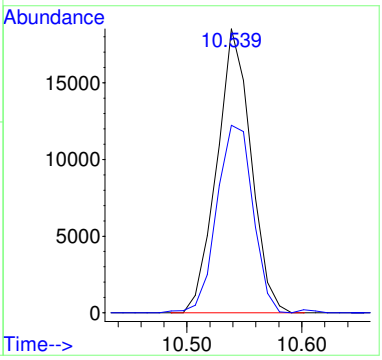


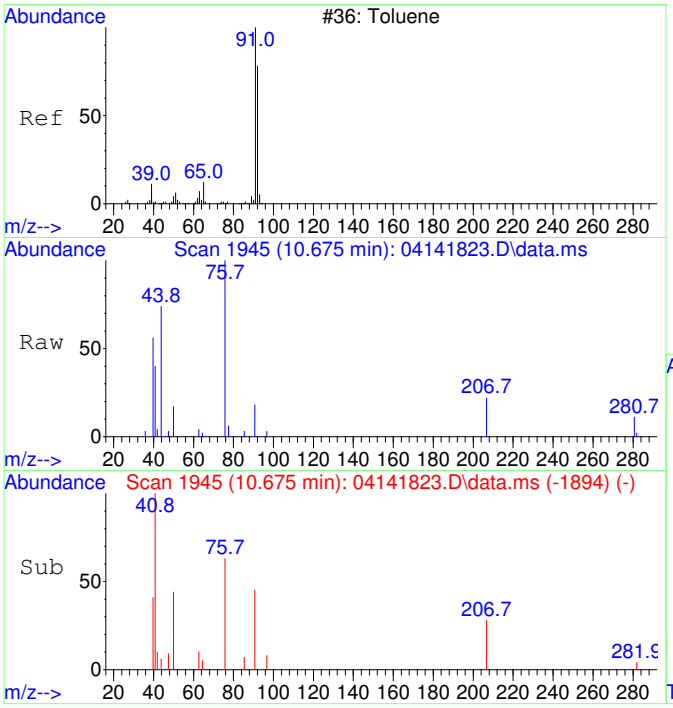


#36
Toluene-d8 SCAN
Concen: 5333.85 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 98 Resp: 38246

Ion	Ratio	Lower	Upper
98	100		
100	70.1	37.3	97.3

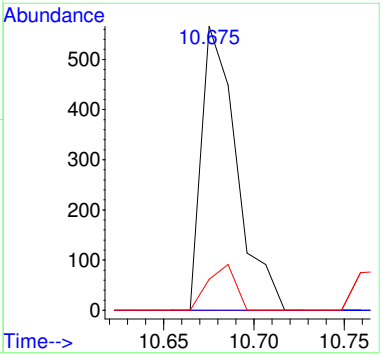


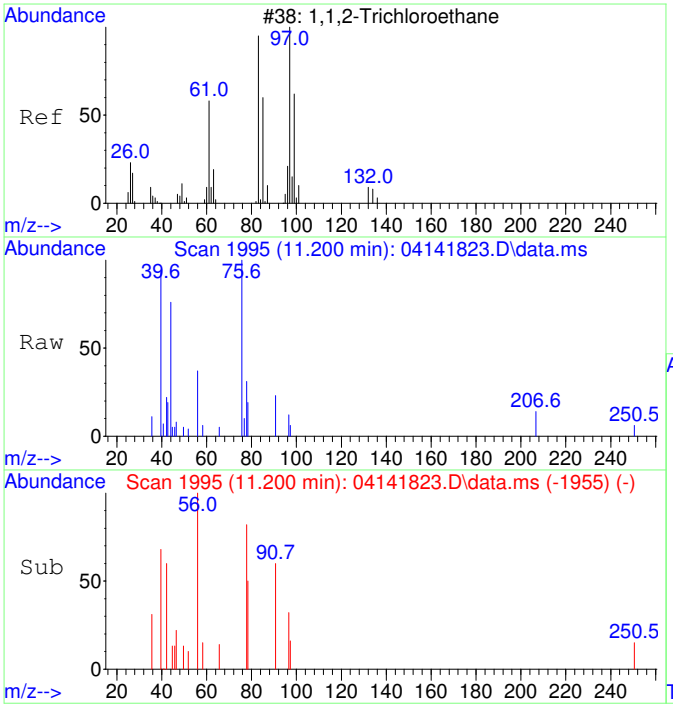


#37
Toluene SCAN
Concen: 95.77 ug/L
RT: 10.675 min Scan# 1945
Delta R.T. 0.032 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 91 Resp: 768

Ion	Ratio	Lower	Upper
91	100		
92	0.0	39.1	99.1#
65	12.5	0.0	43.8

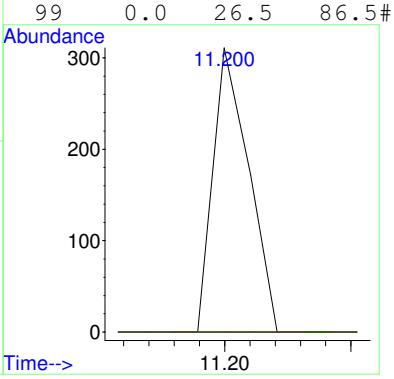


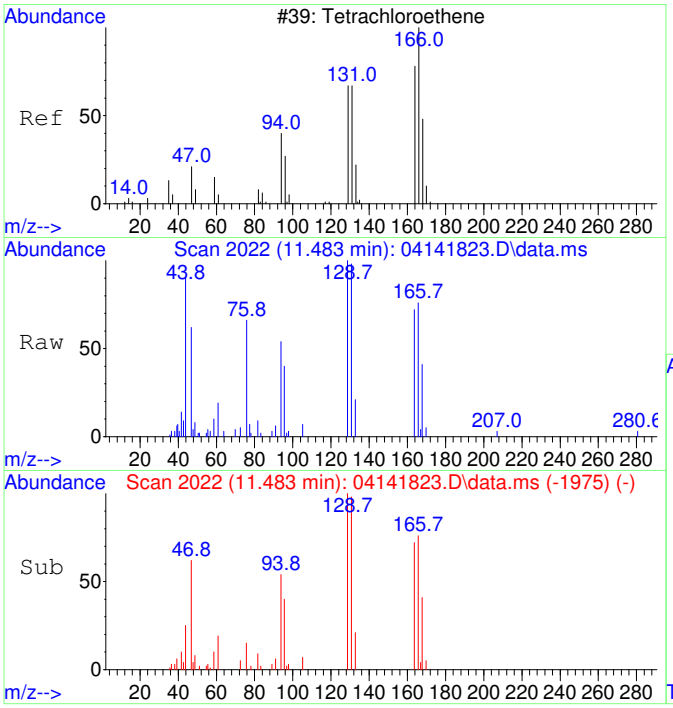


#38
1,1,2-Trichloroethane SCAN
Concen: 123.78 ug/L
RT: 11.200 min Scan# 1995
Delta R.T. -0.084 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 97 Resp: 304

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

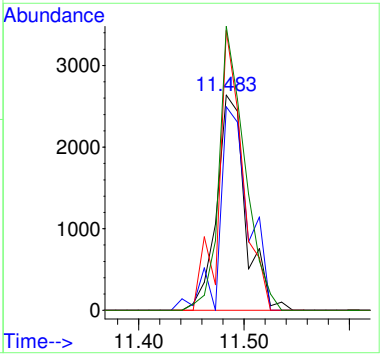


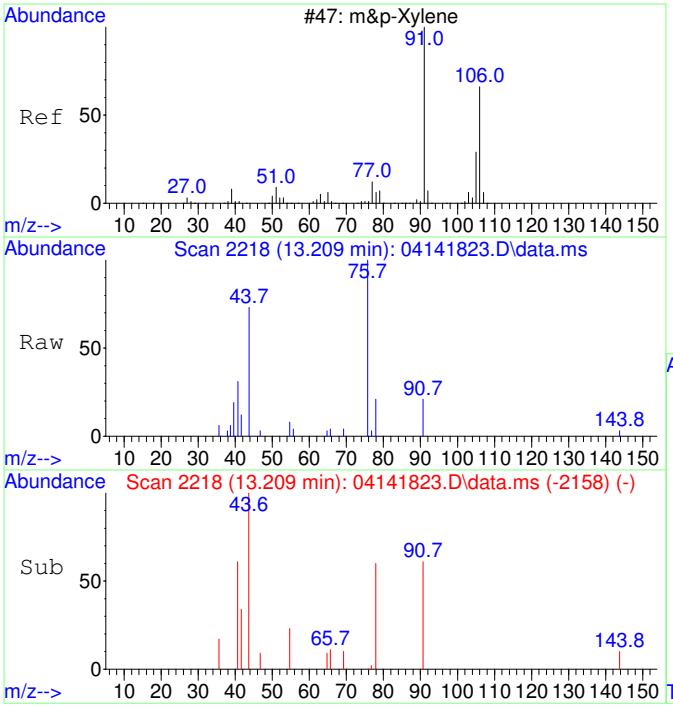


#39
Tetrachloroethene SCAN
Concen: 1921.43 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. -0.010 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion:166 Resp: 5025

Ion	Ratio	Lower	Upper
166	100		
164	94.1	49.8	109.8
131	107.8	42.0	102.0#
129	118.0	30.1	90.1#

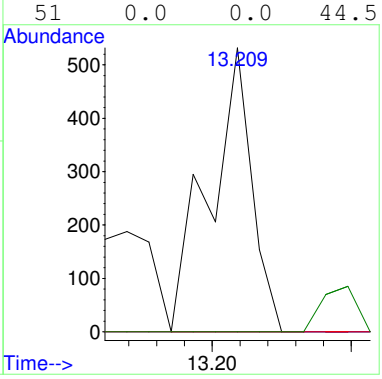


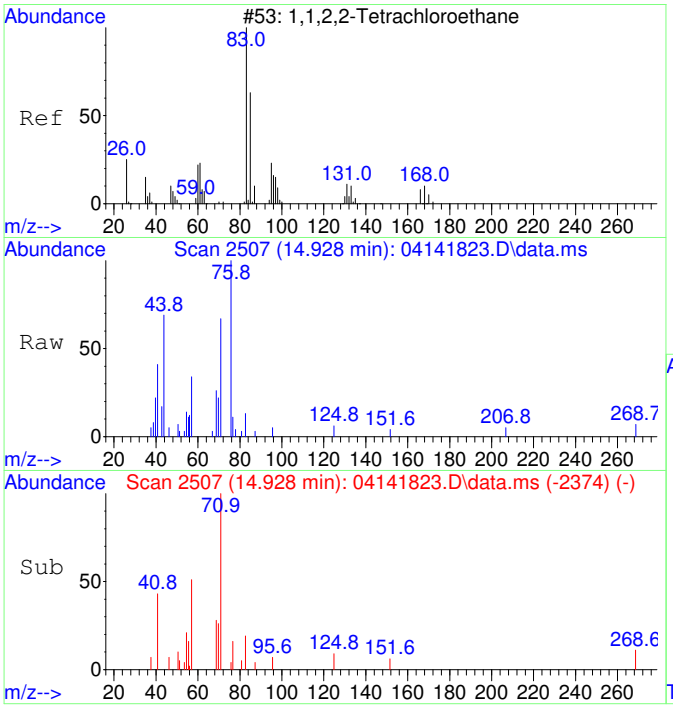


#43
m&p-Xylene SCAN
Concen: 33.09 ug/L
RT: 13.209 min Scan# 2218
Delta R.T. -0.024 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 91 Resp: 566

Ion	Ratio	Lower	Upper
91	100		
106	0.0	14.6	74.6#
105	0.0	0.0	52.8
51	0.0	0.0	44.5

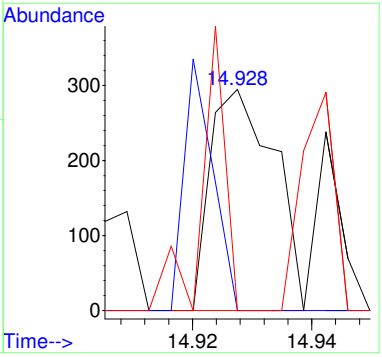


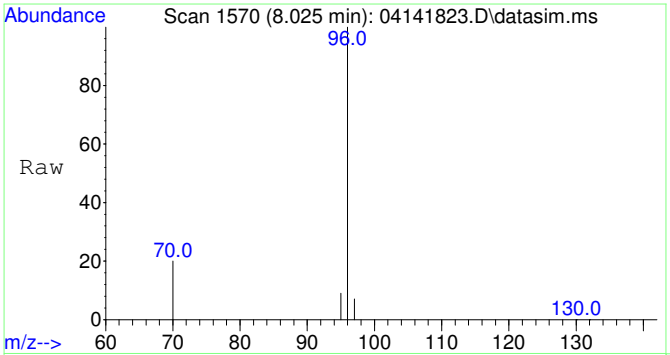


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 45.37 ug/L
RT: 14.928 min Scan# 2507
Delta R.T. -0.007 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 83 Resp: 220

Ion	Ratio	Lower	Upper
83	100		
85	51.4	32.4	92.4
95	46.8	0.0	41.2#

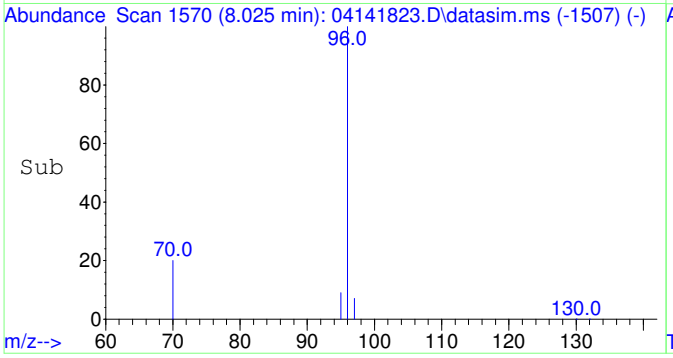


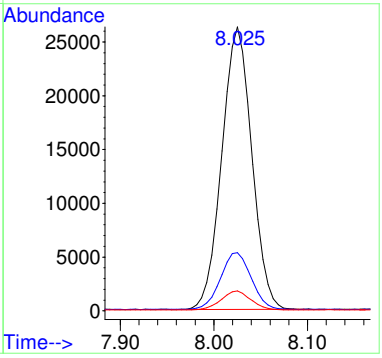


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141823.D
Acq: 14 Apr 2018 19:34

Tgt Ion: 96 Resp: 58209

Ion	Ratio	Lower	Upper
96	100		
70	20.6	0.0	50.7
97	6.7	0.0	36.7





1804005-03RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141824.D
Acq On : 14 Apr 2018 19:58
InstName : AG5975C
Operator : RH
Sample : 1804005-03RE1
Misc : 10 UL- 1 ML
ALS Vial : 24 Sample Multiplier: 100

Quant Time: Apr 16 09:39:34 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

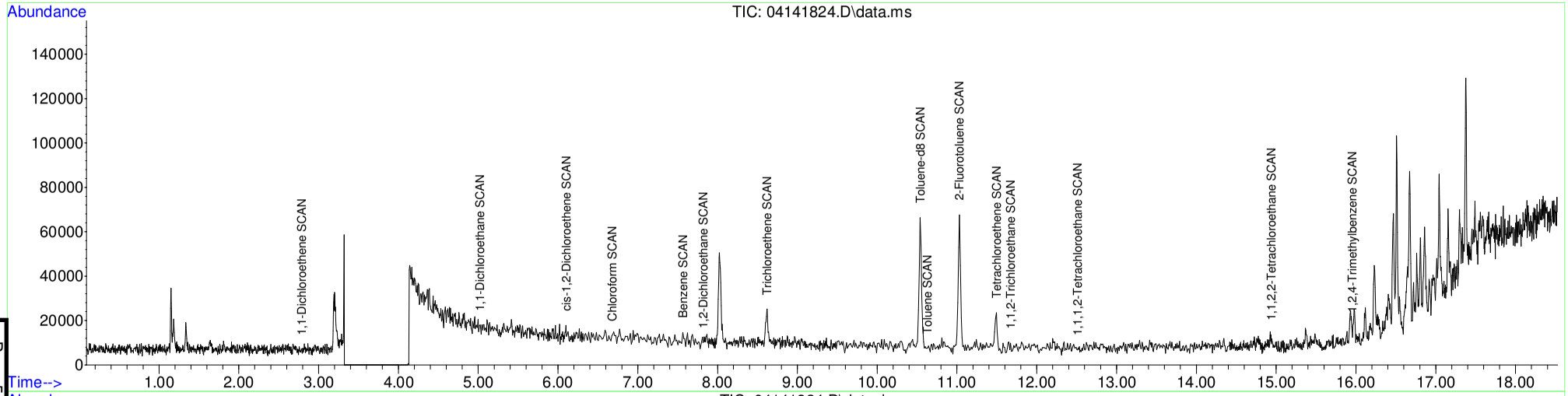
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 2-Fluorotoluene	11.033	109	91387	5000.00 ug/L	0.00	
49) Fluorobenzene	8.025	96	68036	5000.00 ug/L	0.00	
System Monitoring Compounds						
12) Toluene-d8	10.540	98	76574	4992.09 ug/L	0.00	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 99.84%			
Target Compounds					Qvalue	
3] trans-1,2-Dichloroethene	4.310	61	197	48.06 ug/L	85	
5] cis-1,2-Dichloroethene	6.101	61	2103	416.51 ug/L	96	RPT
6] Chloroform	6.676	83	607	102.22 ug/L	85	
9] Benzene	7.540	78	570	38.94 ug/L	47	
11] Trichloroethene	8.619	130	8607	2133.92 ug/L	99	RPT
13] Toluene	10.634	91	734	38.02 ug/L	97	
15] Tetrachloroethene	11.495	166	8784	1659.97 ug/L	99	RPT
21] 1,1,2,2-Tetrachloroethane	14.925	83	537	64.02 ug/L #	60	
25) 2-Fluorotoluene SCAN	11.032	109	48960	5544.49 ug/L	93	
26) 1,1-Dichloroethene SCAN	2.784	61	75	38.32 ug/L #	1	
28) 1,1-Dichloroethane SCAN	5.018	63	74	25.22 ug/L #	49	
29) cis-1,2-Dichloroethene...	6.100	61	1693	735.06 ug/L #	57	
30) Chloroform SCAN	6.675	83	857	308.39 ug/L #	37	
33) Benzene SCAN	7.563	78	4508	592.92 ug/L #	54	
34) 1,2-Dichloroethane SCAN	7.817	62	93	32.26 ug/L #	1	
35) Trichloroethene SCAN	8.617	130	4202	2199.72 ug/L	81	
36) Toluene-d8 SCAN	10.539	98	41051	5294.78 ug/L	96	
37) Toluene SCAN	10.623	91	385	44.40 ug/L #	24	
38) 1,1,2-Trichloroethane ...	11.672	97	211	79.46 ug/L #	17	
39) Tetrachloroethene SCAN	11.494	166	3383	1196.36 ug/L #	42	
41) 1,1,1,2-Tetrachloroeth...	12.510	131	154	69.52 ug/L #	6	
45) 1,1,2,2-Tetrachloroeth...	14.935	83	228	43.49 ug/L #	17	
47) 1,2,4-Trimethylbenzene...	15.948	105	294	25.34 ug/L #	39	

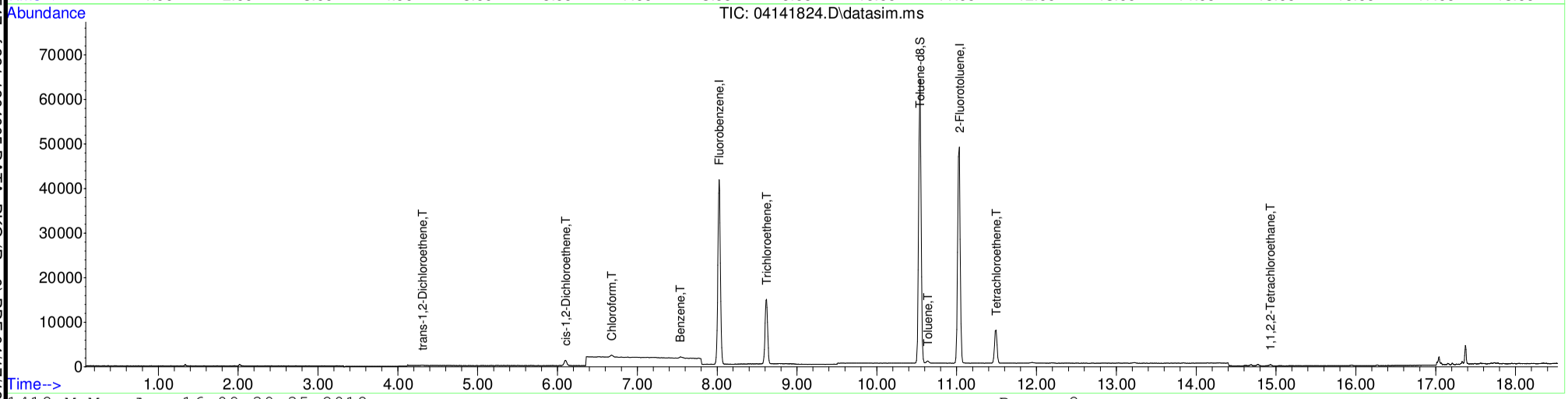
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141824.D
Acq On : 14 Apr 2018 19:58
InstName : AG5975C
Operator : RH
Sample : 1804005-03RE1
Misc : 10 UL- 1 ML
ALS Vial : 24 Sample Multiplier: 100

Quant Time: Apr 16 09:39:34 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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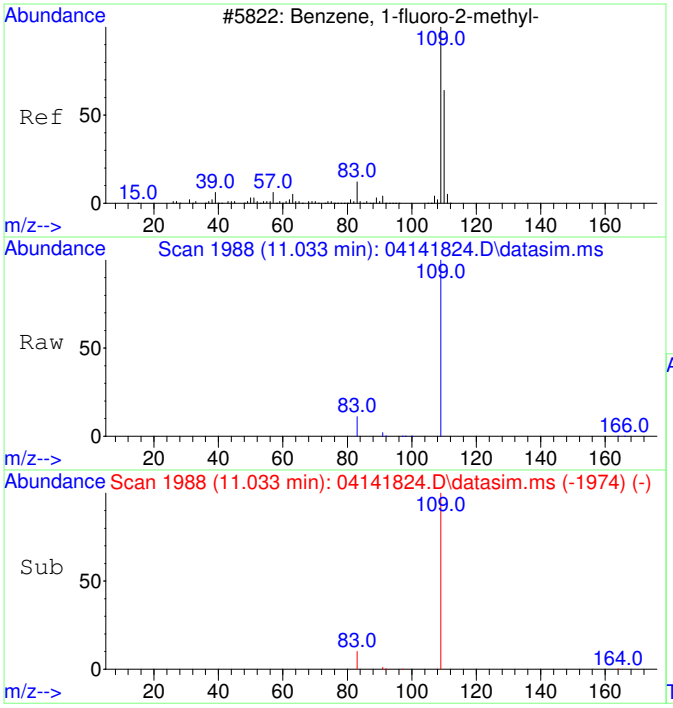
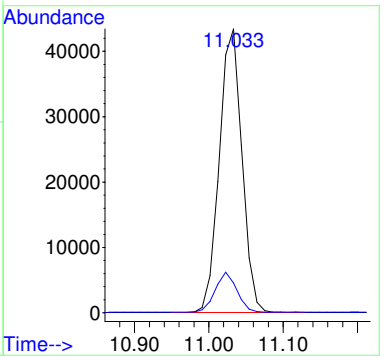
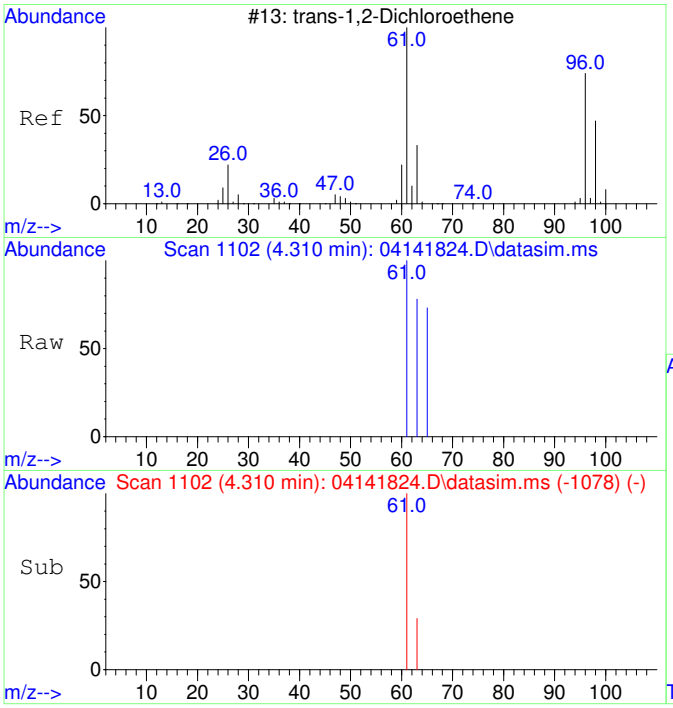


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion:109 Resp: 91387

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

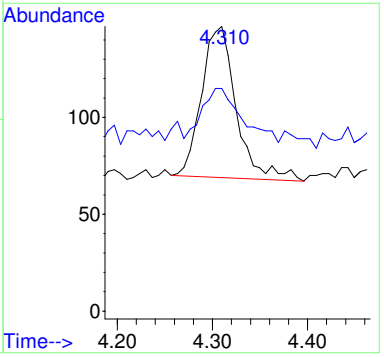


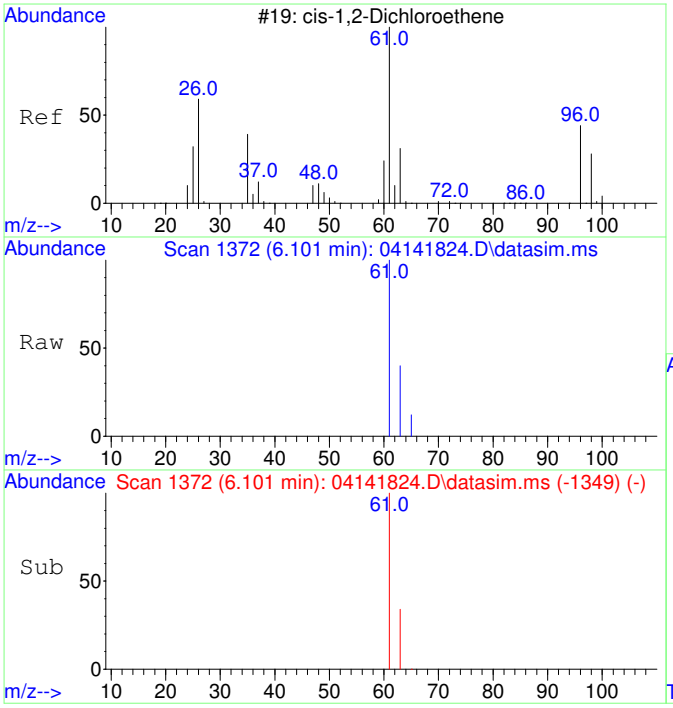


#3
trans-1,2-Dichloroethene
Concen: 48.06 ug/L
RT: 4.310 min Scan# 1102
Delta R.T. 0.007 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 61 Resp: 197

Ion	Ratio	Lower	Upper
61	100		
63	40.6	2.0	62.0

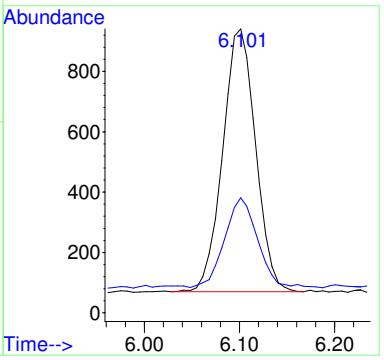


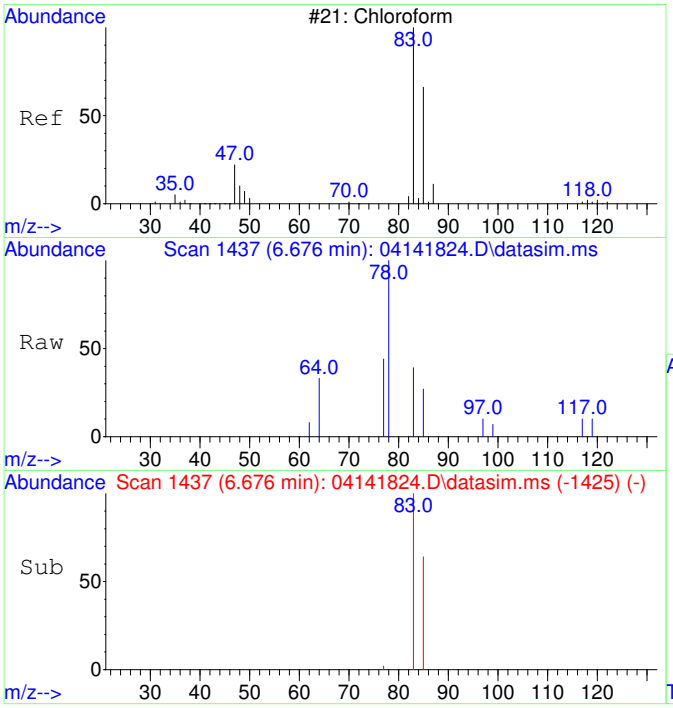


#5
cis-1,2-Dichloroethene
Concen: 416.51 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 61 Resp: 2103

Ion	Ratio	Lower	Upper
61	100		
63	34.3	2.0	62.0

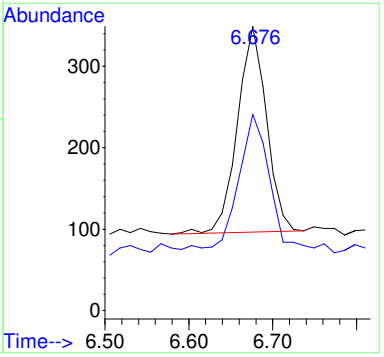


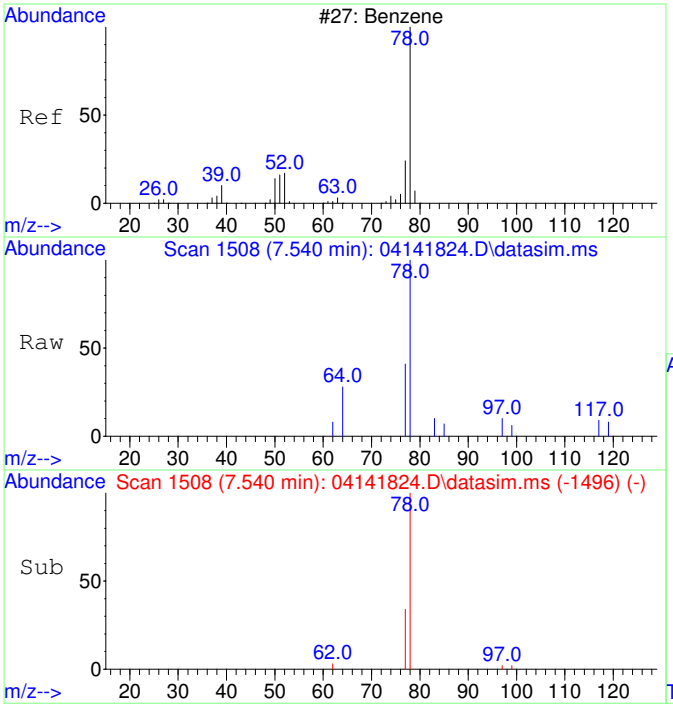


#6
Chloroform
Concen: 102.22 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 83 Resp: 607

Ion	Ratio	Lower	Upper
83	100		
85	75.9	34.2	94.2

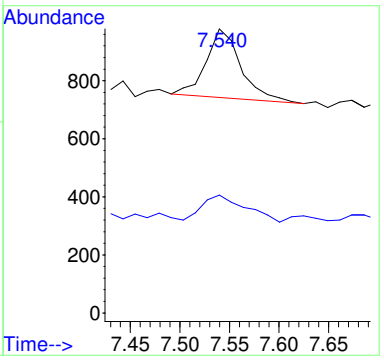


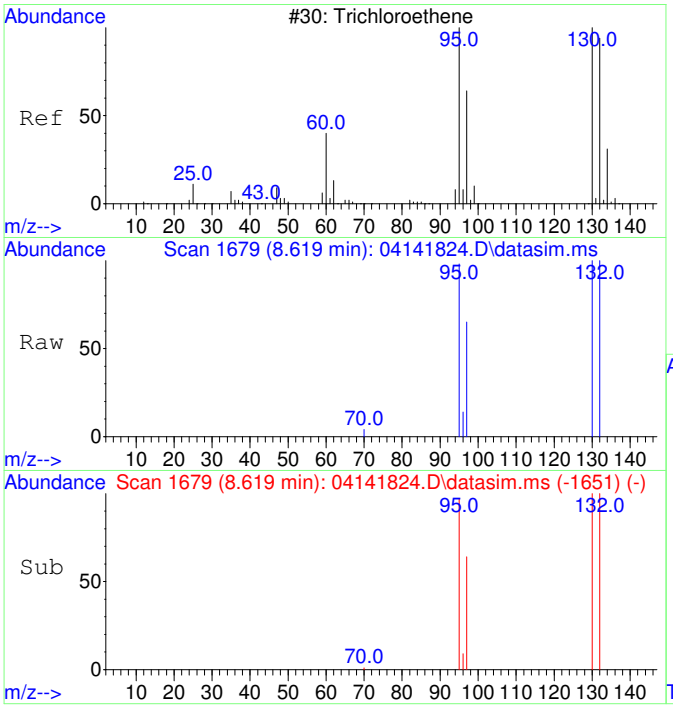


#9
Benzene
Concen: 38.94 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 78 Resp: 570

Ion	Ratio	Lower	Upper
78	100		
77	49.6	0.0	53.6

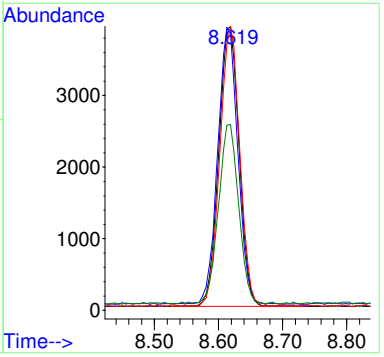


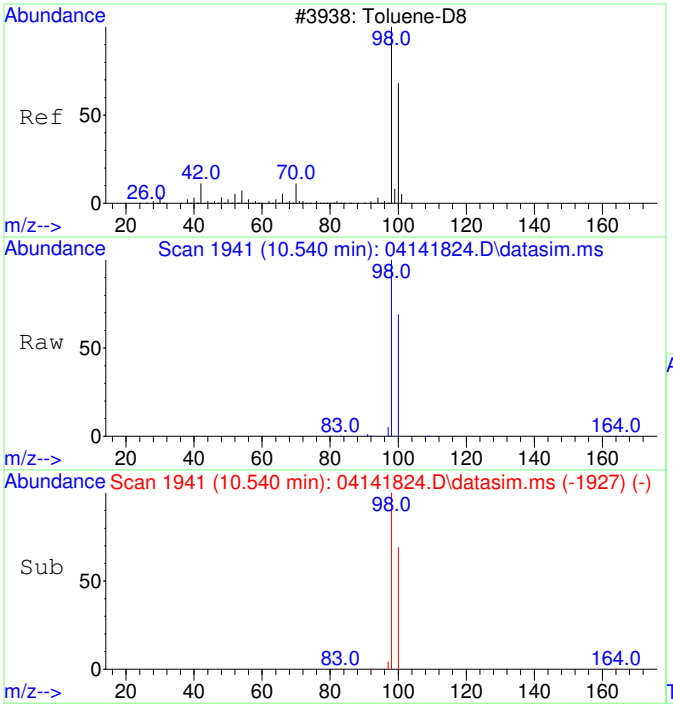


#11
Trichloroethene
Concen: 2133.92 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion:130 Resp: 8607

Ion	Ratio	Lower	Upper
130	100		
95	97.6	68.8	128.8
132	97.4	78.6	118.6
97	62.8	43.7	83.7

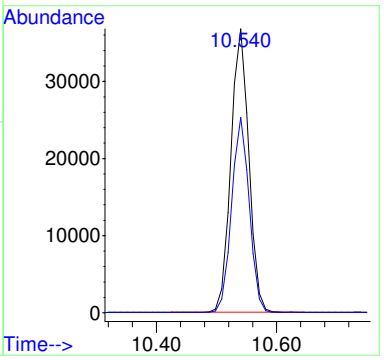


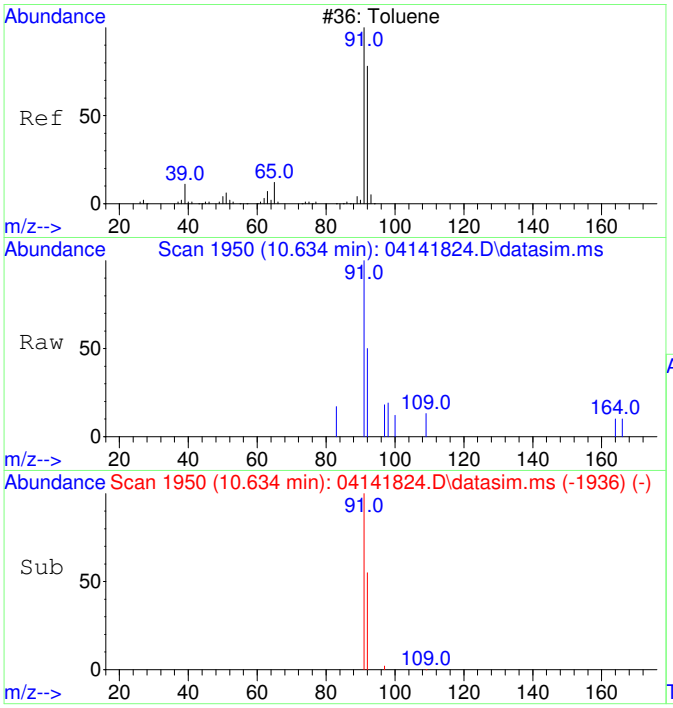


#12
Toluene-d8
Concen: 4992.09 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 98 Resp: 76574

Ion	Ratio	Lower	Upper
98	100		
100	67.6	36.9	96.9

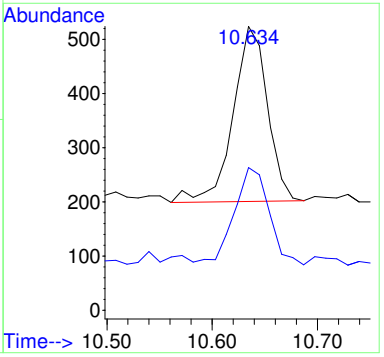


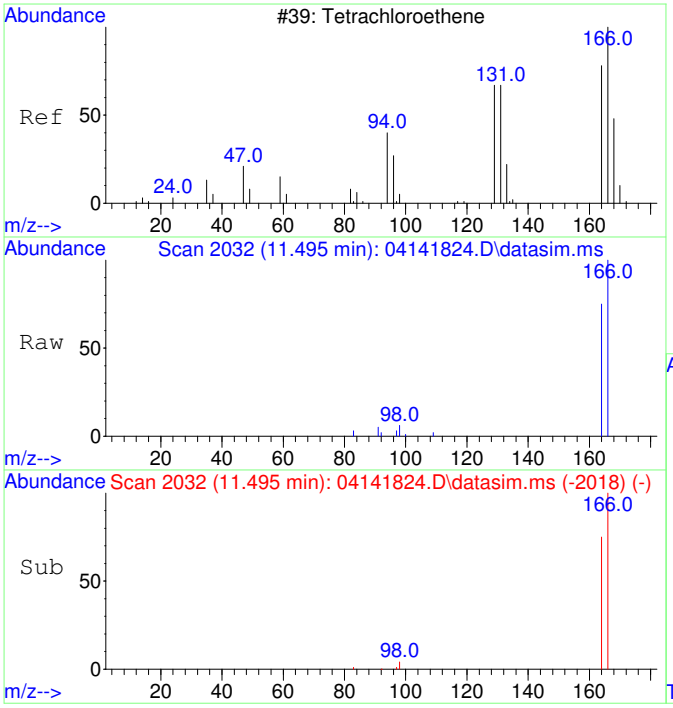


#13
Toluene
Concen: 38.02 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 91 Resp: 734

Ion	Ratio	Lower	Upper
91	100		
92	56.5	28.8	88.8

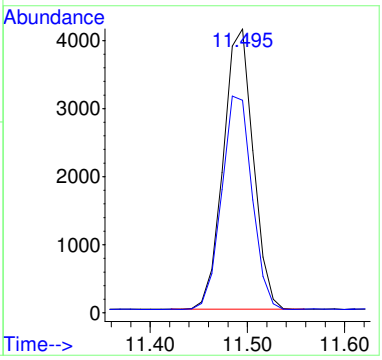


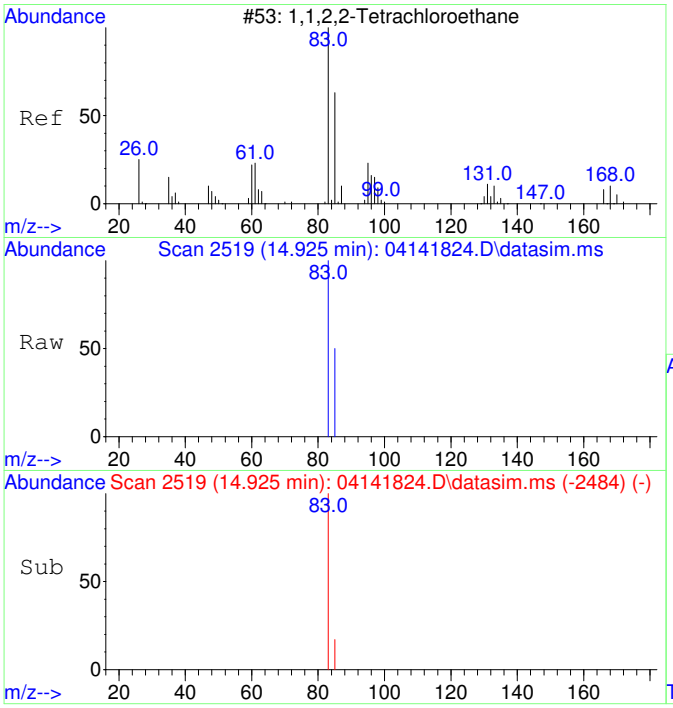


#15
Tetrachloroethene
Concen: 1659.97 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion:166 Resp: 8784

Ion	Ratio	Lower	Upper
166	100		
164	77.2	48.0	108.0

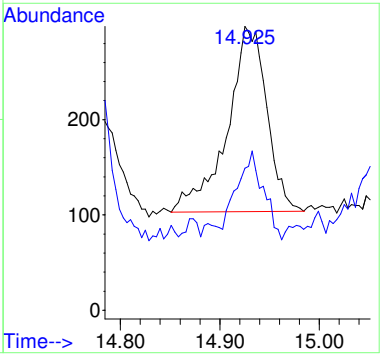


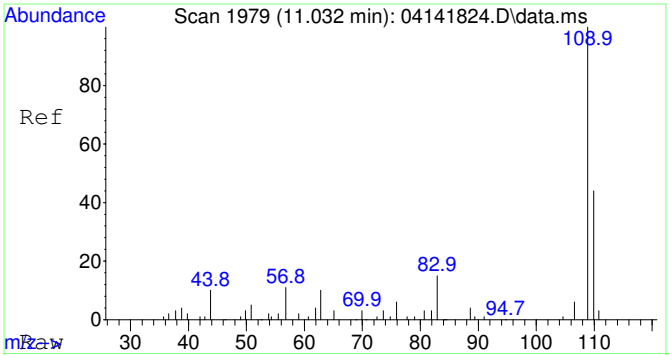


#21
1,1,2,2-Tetrachloroethane
Concen: 64.02 ug/L
RT: 14.925 min Scan# 2519
Delta R.T. -0.018 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 83 Resp: 537

Ion	Ratio	Lower	Upper
83	100		
85	32.8	34.3	94.3#

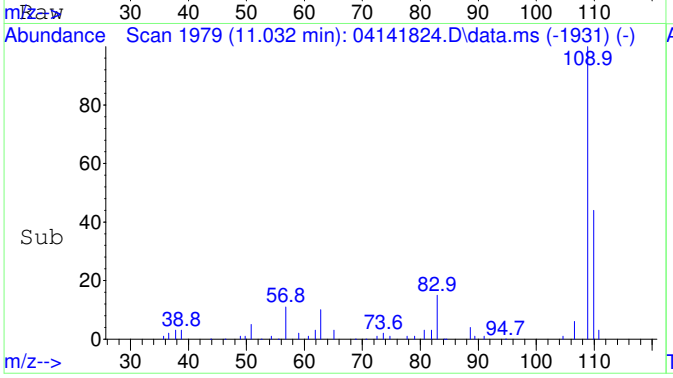


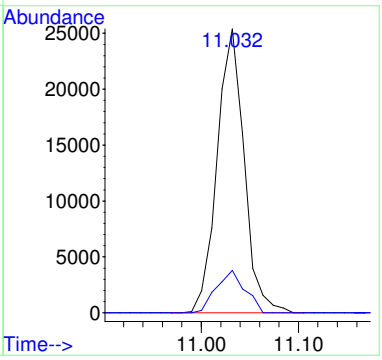


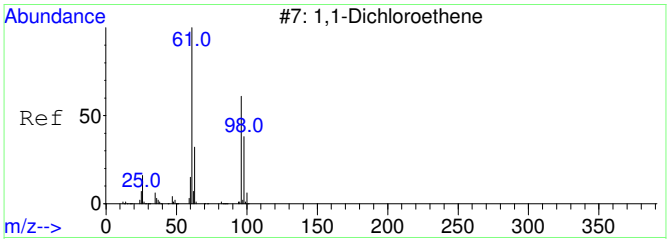
#25
2-Fluorotoluene SCAN
Concen: 5544.49 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion:109 Resp: 48960

Ion	Ratio	Lower	Upper
109	100		
83	15.8	0.0	49.2



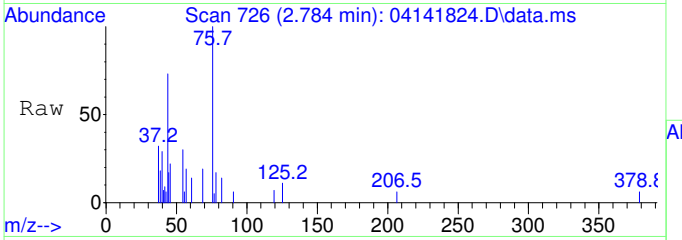


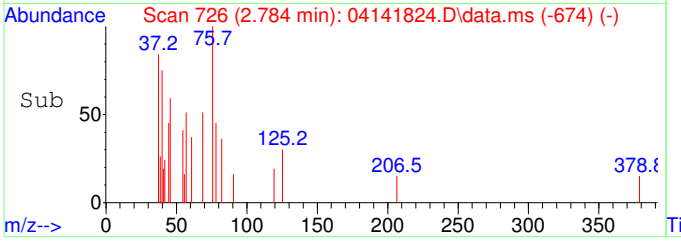


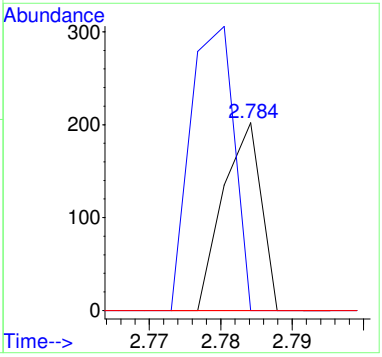
#26
1,1-Dichloroethene SCAN
Concen: 38.32 ug/L
RT: 2.784 min Scan# 726
Delta R.T. -0.308 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

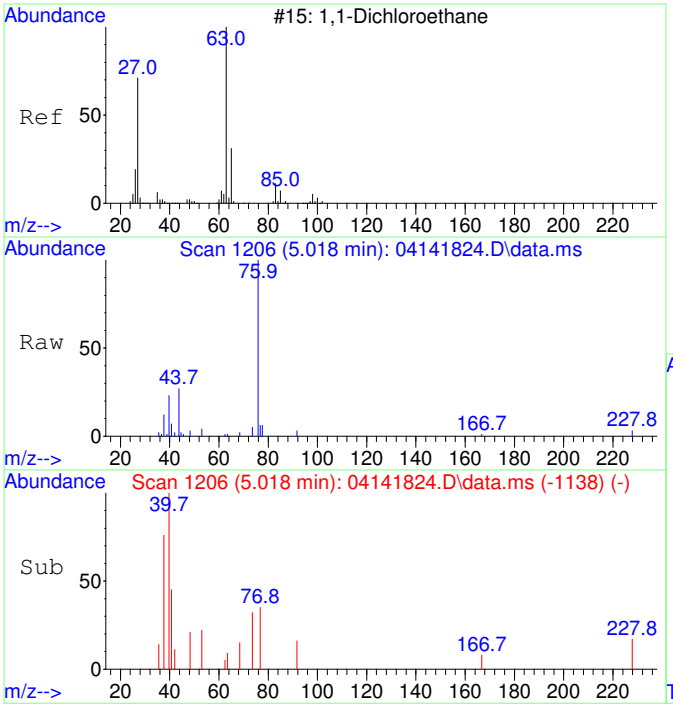
Tgt Ion: 61 Resp: 75

Ion	Ratio	Lower	Upper
61	100		
96	173.3	21.6	81.6#
98	0.0	7.5	67.5#





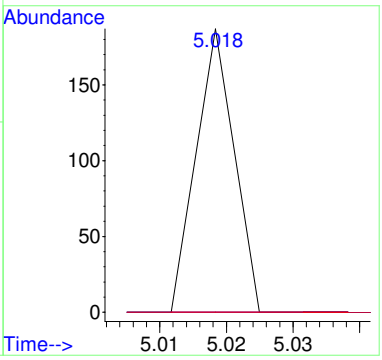


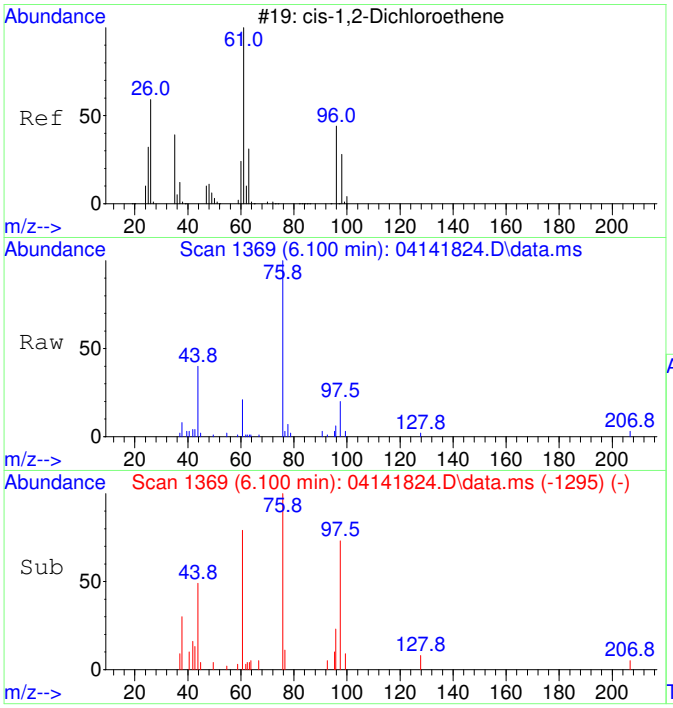


#28
1,1-Dichloroethane SCAN
Concen: 25.22 ug/L
RT: 5.018 min Scan# 1206
Delta R.T. -0.046 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 63 Resp: 74

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	0.0	0.0	38.2

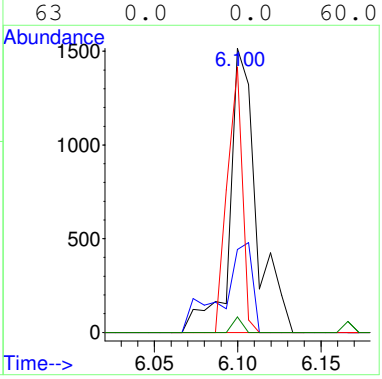


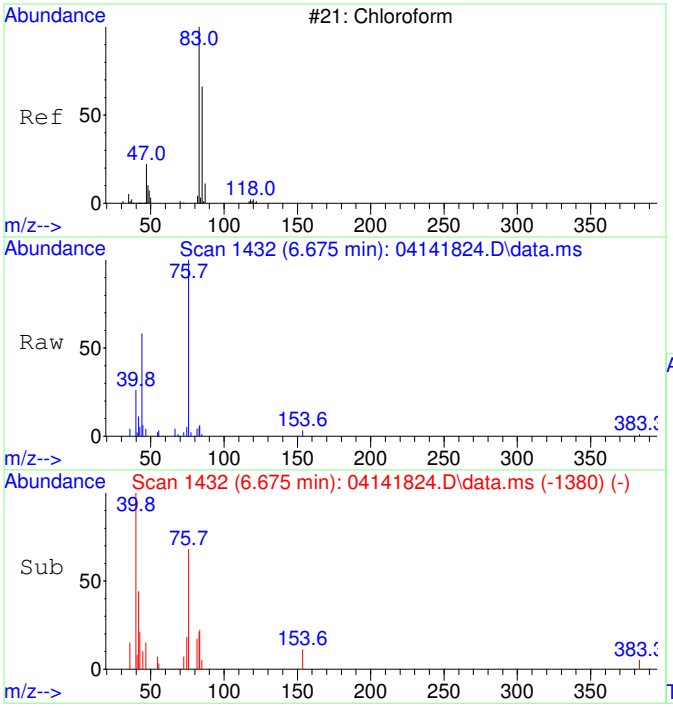


#29
cis-1,2-Dichloroethene SCAN
Concen: 735.06 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.007 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 61 Resp: 1693

Ion	Ratio	Lower	Upper
61	100		
96	36.1	49.4	109.4#
98	52.7	9.5	69.5
63	0.0	0.0	60.0

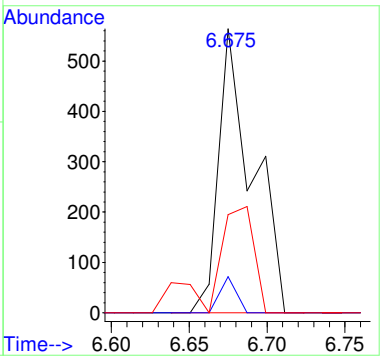


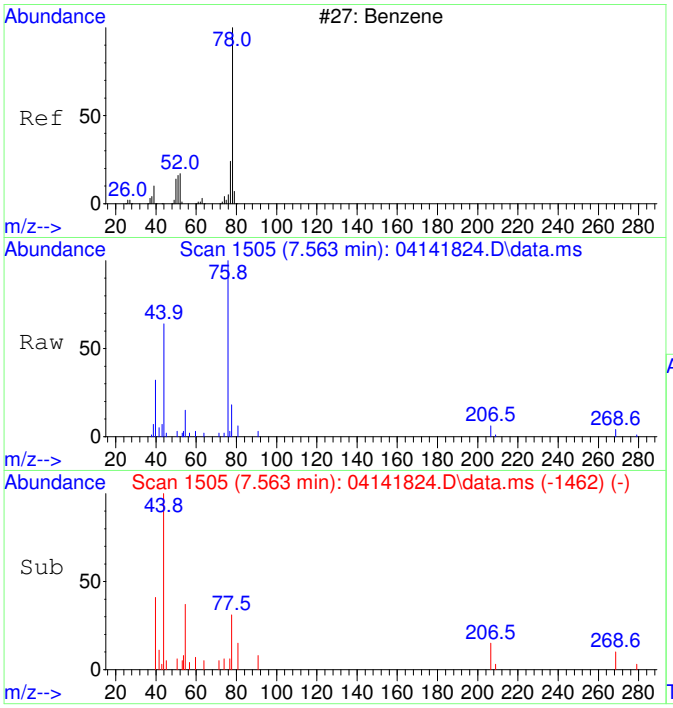


#30
Chloroform SCAN
Concen: 308.39 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 83 Resp: 857

Ion	Ratio	Lower	Upper
83	100		
85	0.0	47.8	107.8#
47	44.5	8.2	68.2

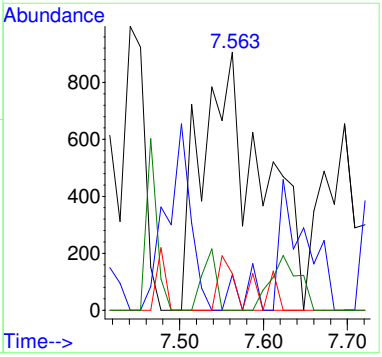


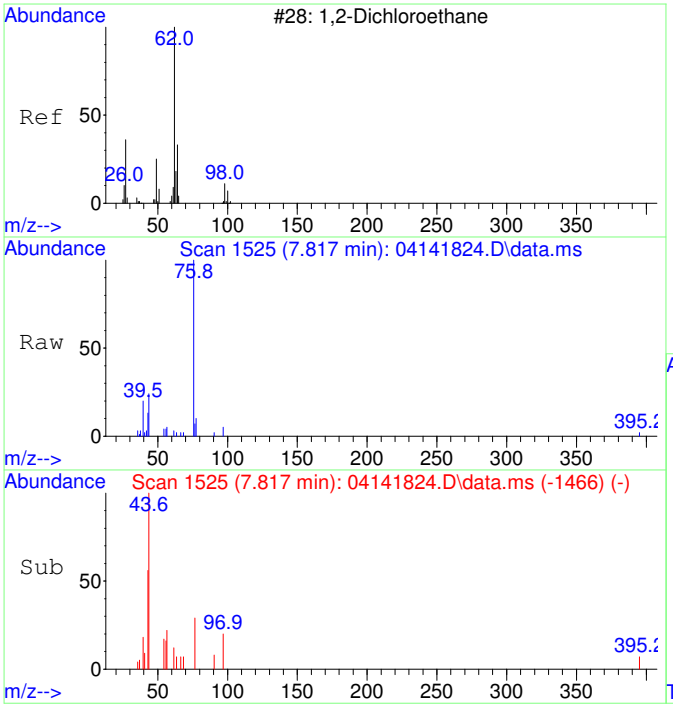


#33
Benzene SCAN
Concen: 592.92 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.024 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 78 Resp: 4508

Ion	Ratio	Lower	Upper
78	100		
77	2.0	5.4	65.4#
51	5.2	0.0	47.2
52	0.0	0.0	47.4

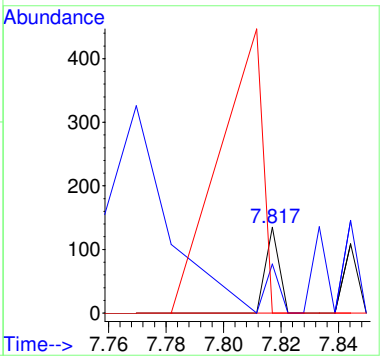


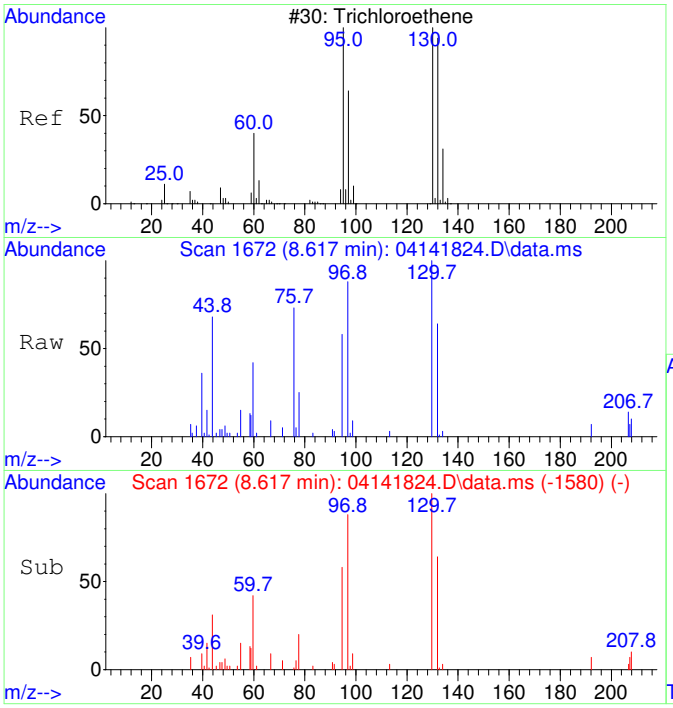


#34
1,2-Dichloroethane SCAN
Concen: 32.26 ug/L
RT: 7.817 min Scan# 1525
Delta R.T. 0.230 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 62 Resp: 93

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	380.6	1.2	61.2#

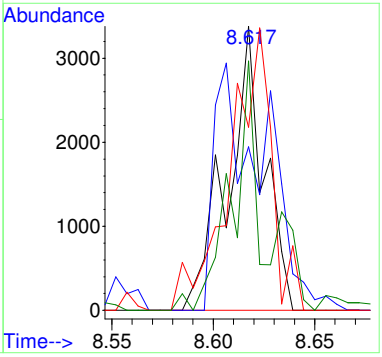


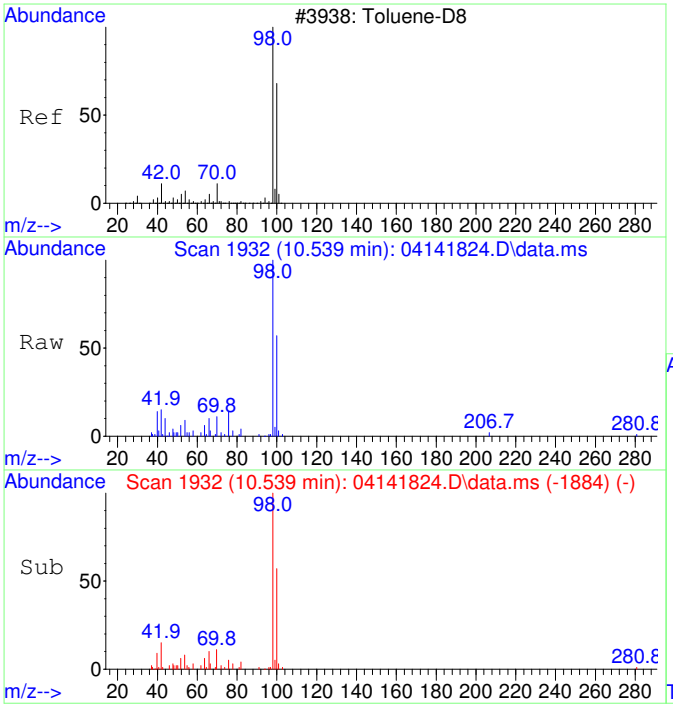


#35
Trichloroethene SCAN
Concen: 2199.72 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion:130 Resp: 4202

Ion	Ratio	Lower	Upper
130	100		
95	120.3	71.3	131.3
132	114.2	75.1	135.1
97	43.5	41.3	101.3

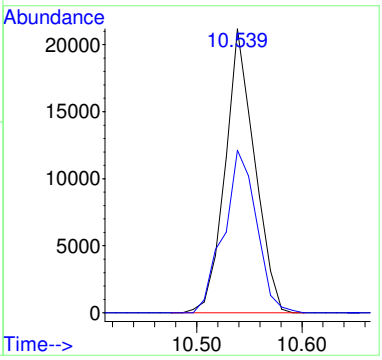


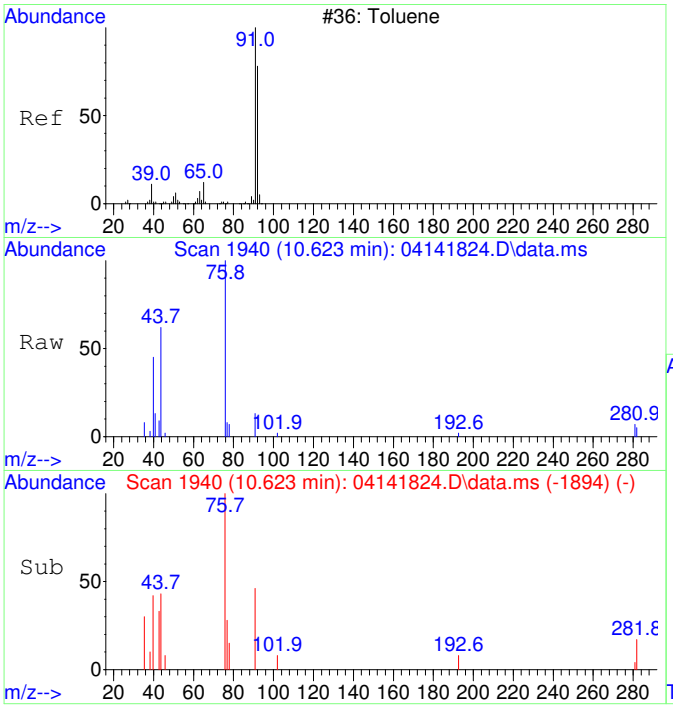


#36
Toluene-d8 SCAN
Concen: 5294.78 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 98 Resp: 41051

Ion	Ratio	Lower	Upper
98	100		
100	63.9	37.3	97.3

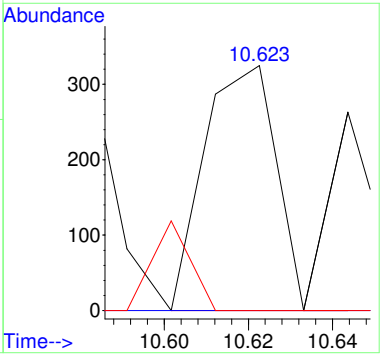


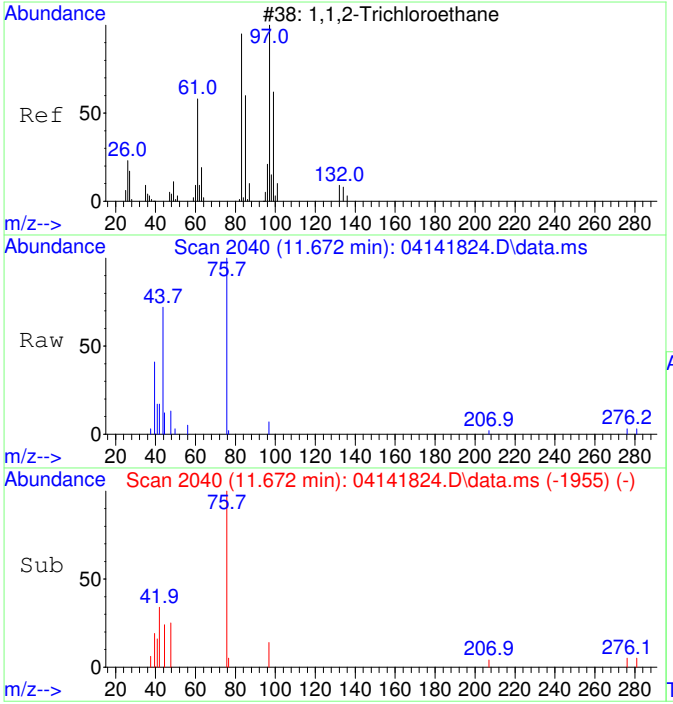


#37
Toluene SCAN
Concen: 44.40 ug/L
RT: 10.623 min Scan# 1940
Delta R.T. -0.021 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 91 Resp: 385

Ion	Ratio	Lower	Upper
91	100		
92	0.0	39.1	99.1#
65	0.0	0.0	43.8

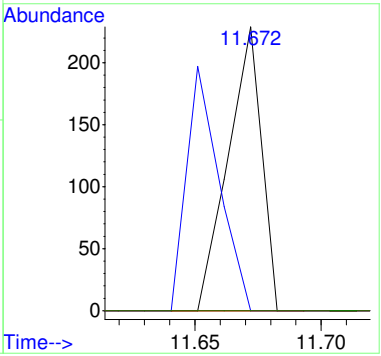


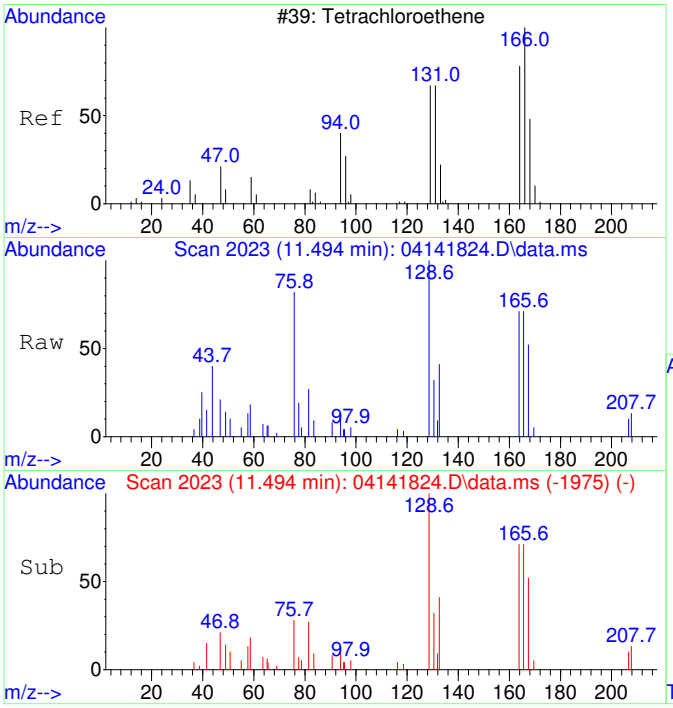


#38
1,1,2-Trichloroethane SCAN
Concen: 79.46 ug/L
RT: 11.672 min Scan# 2040
Delta R.T. 0.388 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 97 Resp: 211

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

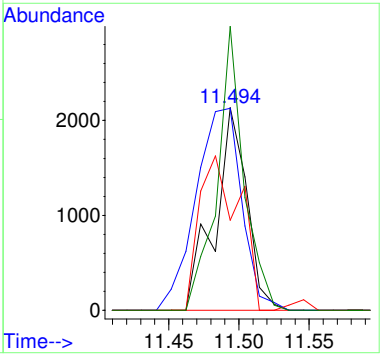


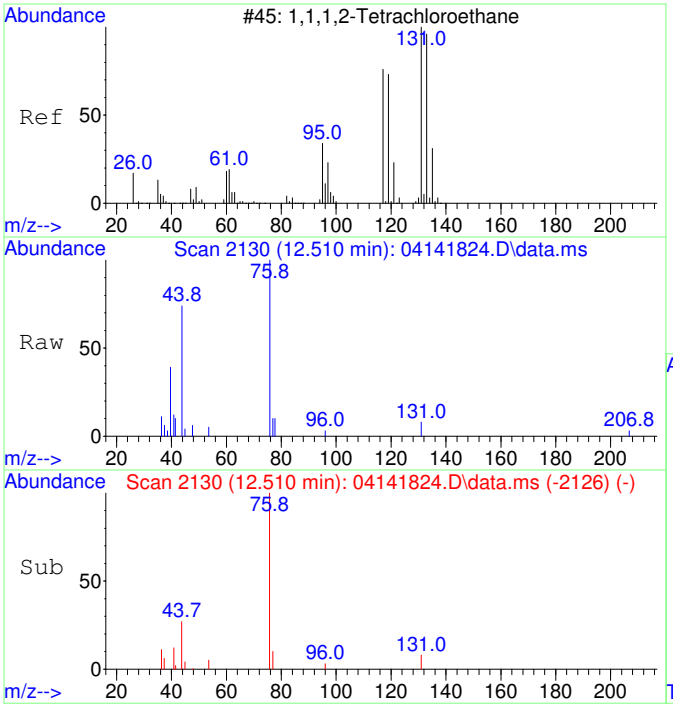


#39
Tetrachloroethene SCAN
Concen: 1196.36 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion:166 Resp: 3383

Ion	Ratio	Lower	Upper
166	100		
164	143.2	49.8	109.8#
131	95.7	42.0	102.0
129	117.2	30.1	90.1#

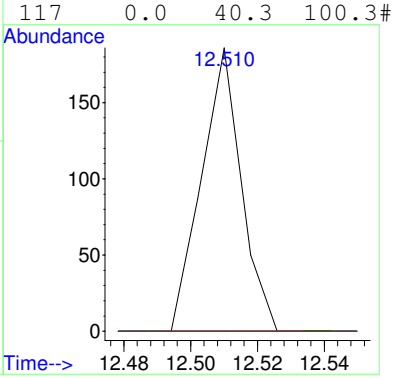


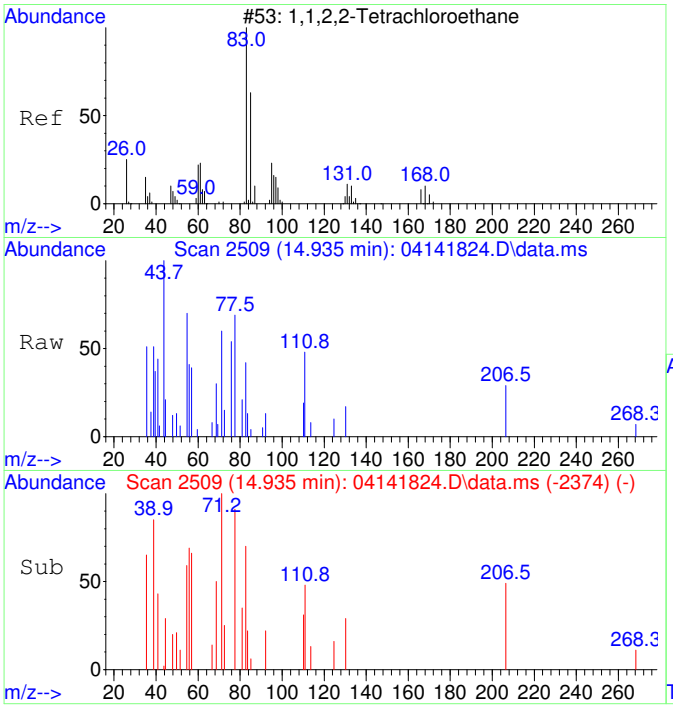


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 69.52 ug/L
RT: 12.510 min Scan# 2130
Delta R.T. -0.469 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion:131 Resp: 154

Ion	Ratio	Lower	Upper
131	100		
133	0.0	78.7	138.7#
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

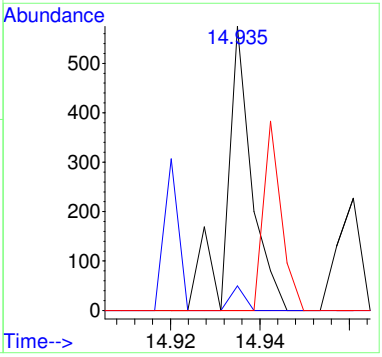


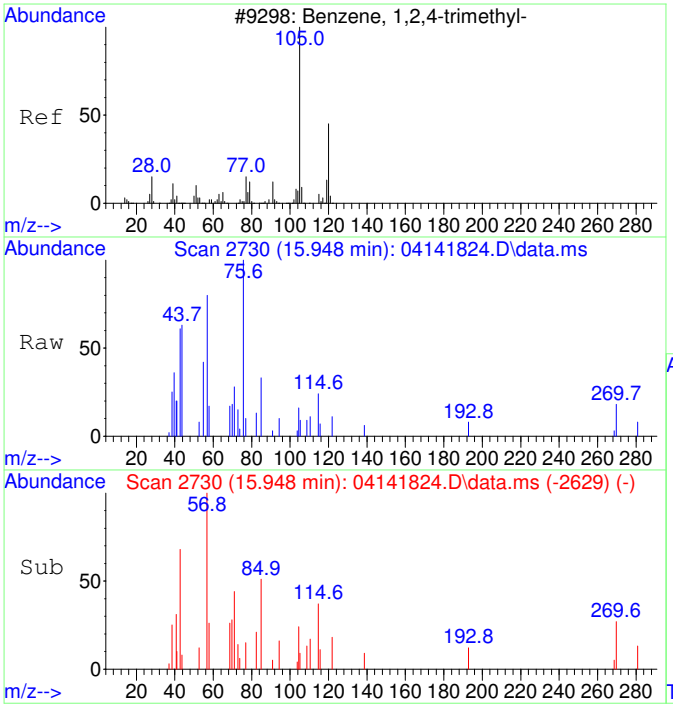


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 43.49 ug/L
RT: 14.935 min Scan# 2509
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 83 Resp: 228

Ion	Ratio	Lower	Upper
83	100		
85	0.0	32.4	92.4#
95	46.9	0.0	41.2#

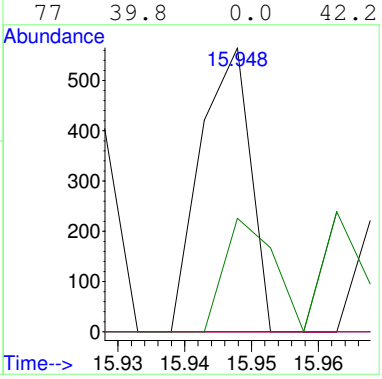


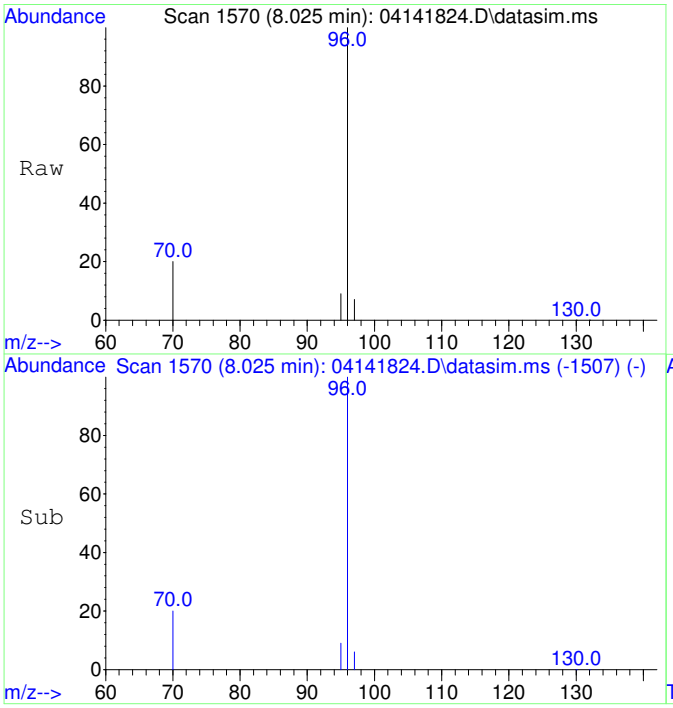


#47
1,2,4-Trimethylbenzene SCAN
Concen: 25.34 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion:105 Resp: 294

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.8	72.8#
119	0.0	0.0	42.5
77	39.8	0.0	42.2

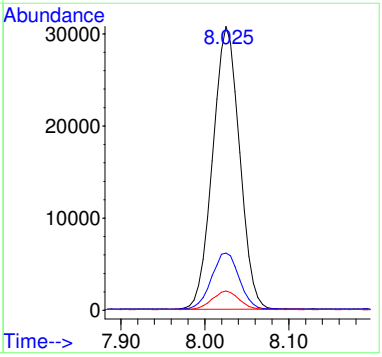




#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141824.D
Acq: 14 Apr 2018 19:58

Tgt Ion: 96 Resp: 68036

Ion	Ratio	Lower	Upper
96	100		
70	20.5	0.0	50.7
97	6.6	0.0	36.7



1804005-04RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141825.D
Acq On : 14 Apr 2018 20:21
InstName : AG5975C
Operator : RH
Sample : 1804005-04RE1
Misc : 10 UL- 1 ML
ALS Vial : 25 Sample Multiplier: 100

Quant Time: Apr 16 09:39:40 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

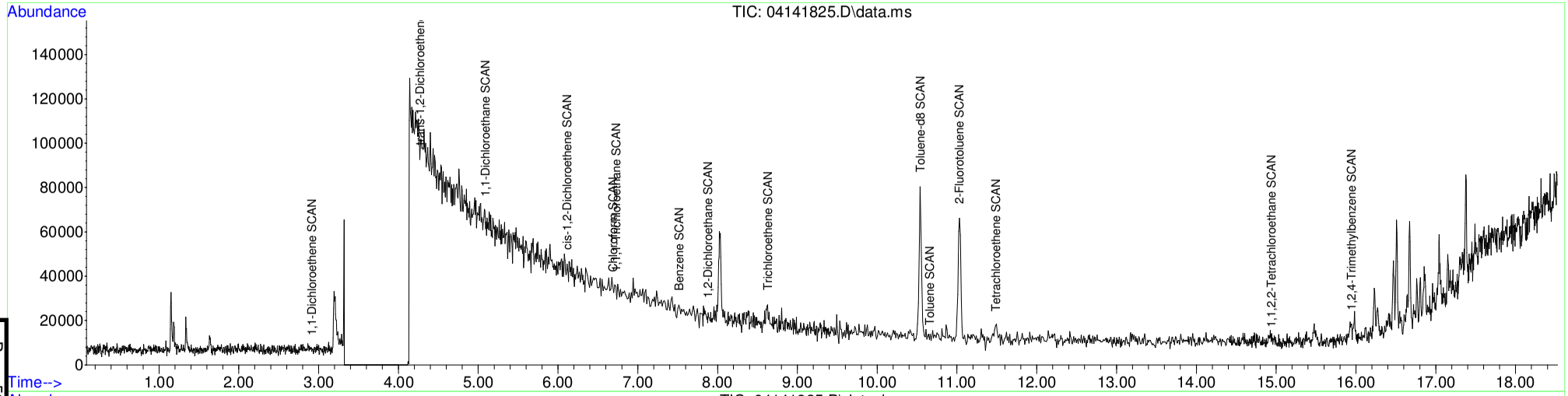
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 2-Fluorotoluene	11.033	109	96302	5000.00 ug/L	0.00	
49) Fluorobenzene	8.025	96	69088	5000.00 ug/L	0.00	
System Monitoring Compounds						
12) Toluene-d8	10.540	98	81228	5025.23 ug/L	0.00	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.50%			
Target Compounds					Qvalue	
3] trans-1,2-Dichloroethene	4.309	61	160	37.04 ug/L	70	
5] cis-1,2-Dichloroethene	6.101	61	1789	336.24 ug/L	99	RPT
6] Chloroform	6.676	83	1935	309.23 ug/L	99	
9] Benzene	7.540	78	433	28.07 ug/L #	1	
11] Trichloroethene	8.618	130	4198	987.68 ug/L	99	RPT
13] Toluene	10.634	91	756	37.16 ug/L	97	
15] Tetrachloroethene	11.495	166	3980	713.74 ug/L	98	RPT
21] 1,1,2,2-Tetrachloroethane	14.932	83	255	28.85 ug/L #	45	
25) 2-Fluorotoluene SCAN	11.032	109	48427	5204.24 ug/L	92	
26) 1,1-Dichloroethene SCAN	2.918	61	134	64.97 ug/L #	31	
27) trans-1,2-Dichloroethe...	4.268	61	125	61.86 ug/L #	1	
28) 1,1-Dichloroethane SCAN	5.084	63	326	105.44 ug/L #	7	
29) cis-1,2-Dichloroethene...	6.113	61	373	153.68 ug/L #	34	
30) Chloroform SCAN	6.687	83	1852	632.43 ug/L #	40	
31) 1,1,1-Trichloroethane ...	6.723	97	179	48.71 ug/L #	29	
33) Benzene SCAN	7.514	78	3159	394.28 ug/L #	50	
34) 1,2-Dichloroethane SCAN	7.882	62	62	20.41 ug/L #	1	
35) Trichloroethene SCAN	8.628	130	1913	950.33 ug/L #	64	
36) Toluene-d8 SCAN	10.538	98	45777	5603.00 ug/L	99	
37) Toluene SCAN	10.654	91	1446	158.25 ug/L #	37	
39) Tetrachloroethene SCAN	11.483	166	557	186.92 ug/L #	1	
45) 1,1,2,2-Tetrachloroeth...	14.938	83	185	33.49 ug/L #	48	
47) 1,2,4-Trimethylbenzene...	15.943	105	275	22.49 ug/L #	1	

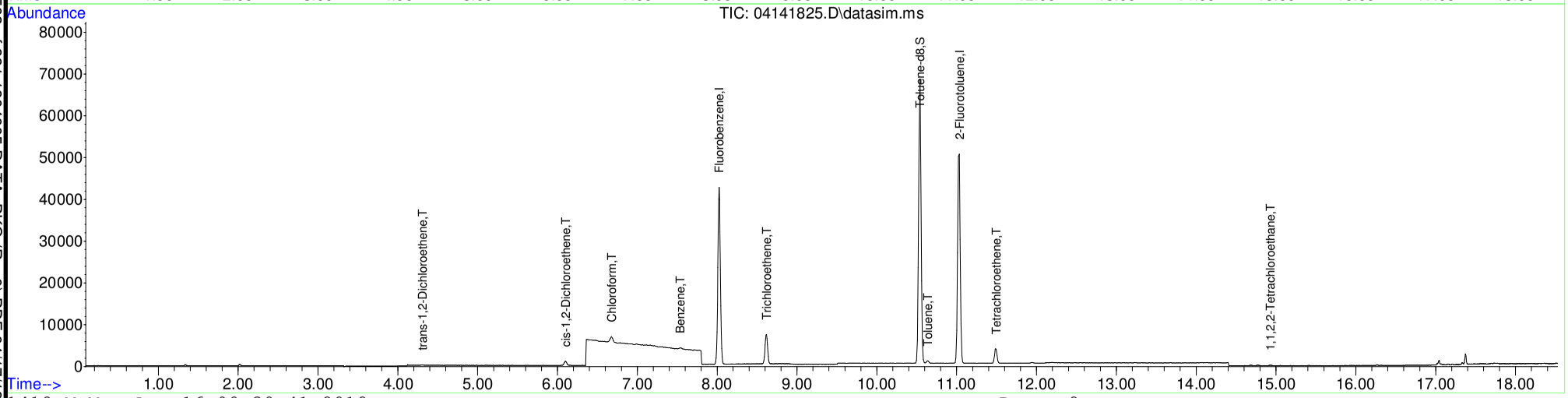
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141825.D
Acq On : 14 Apr 2018 20:21
InstName : AG5975C
Operator : RH
Sample : 1804005-04RE1
Misc : 10 UL- 1 ML
ALS Vial : 25 Sample Multiplier: 100

Quant Time: Apr 16 09:39:40 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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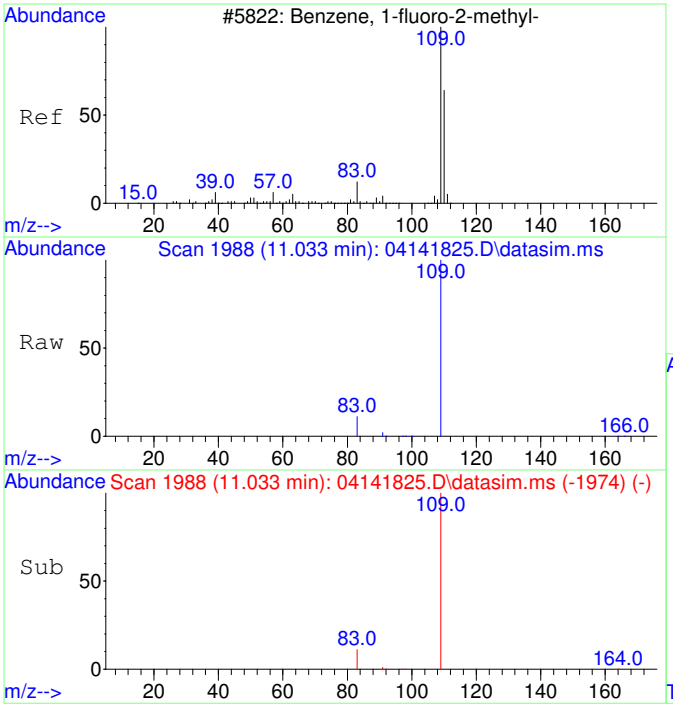
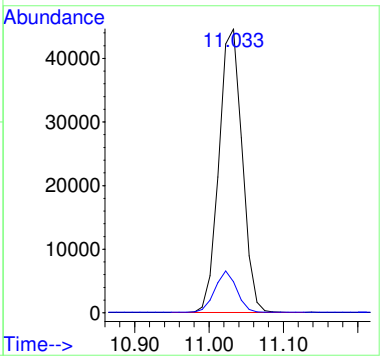
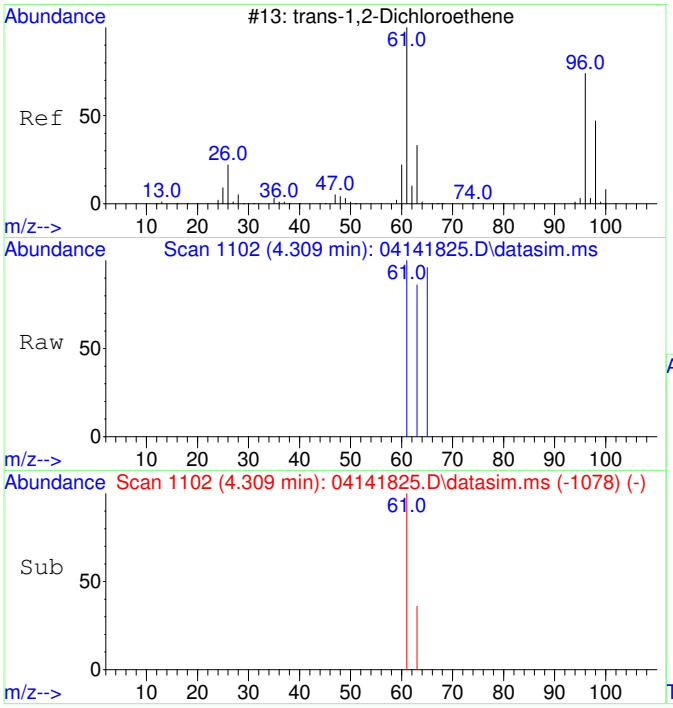


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion:109 Resp: 96302

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	44.4

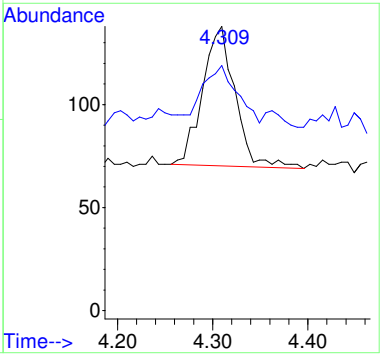


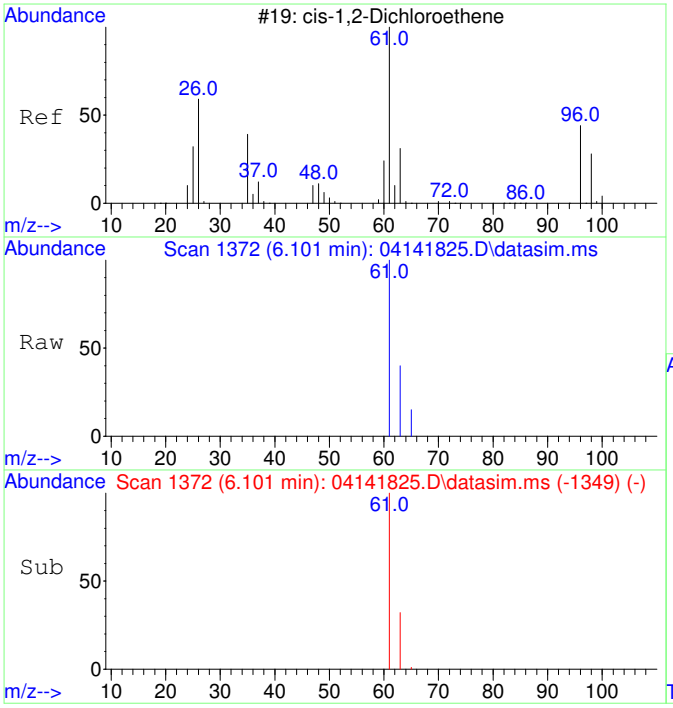


#3
trans-1,2-Dichloroethene
Concen: 37.04 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.006 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 61 Resp: 160

Ion	Ratio	Lower	Upper
61	100		
63	48.8	2.0	62.0

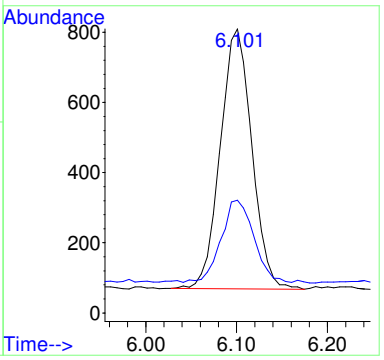


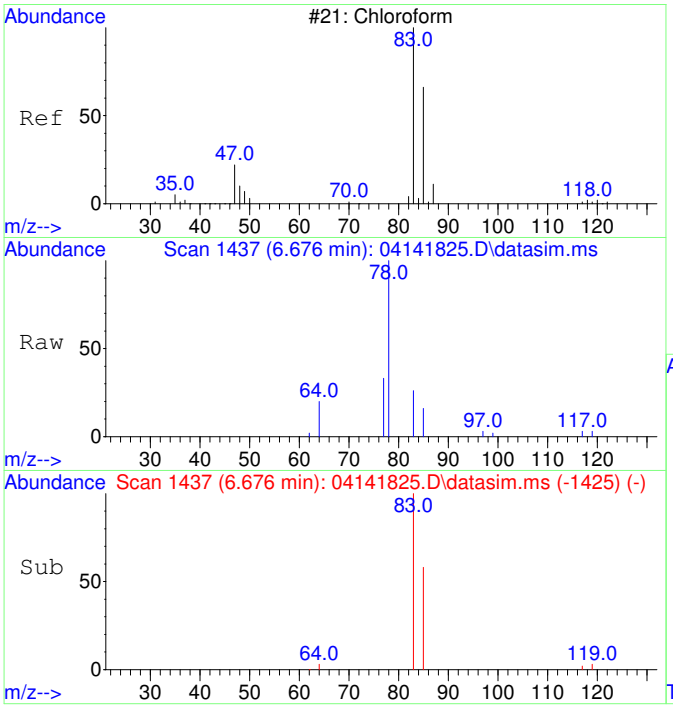


#5
cis-1,2-Dichloroethene
Concen: 336.24 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 61 Resp: 1789

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.0	62.0

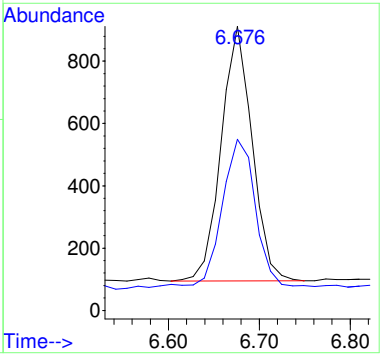


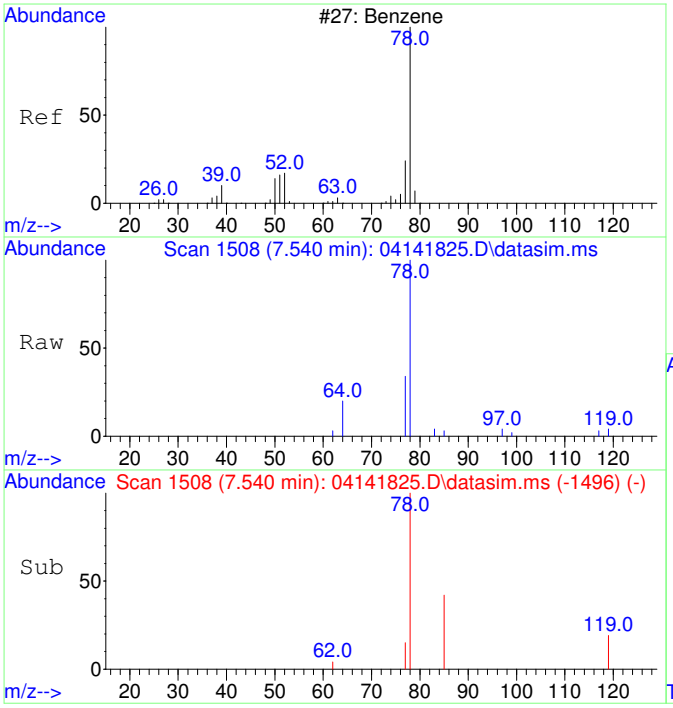


#6
Chloroform
Concen: 309.23 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 83 Resp: 1935

Ion	Ratio	Lower	Upper
83	100		
85	65.3	34.2	94.2

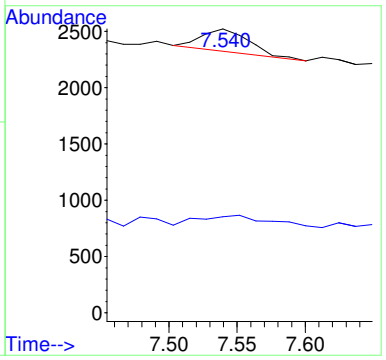


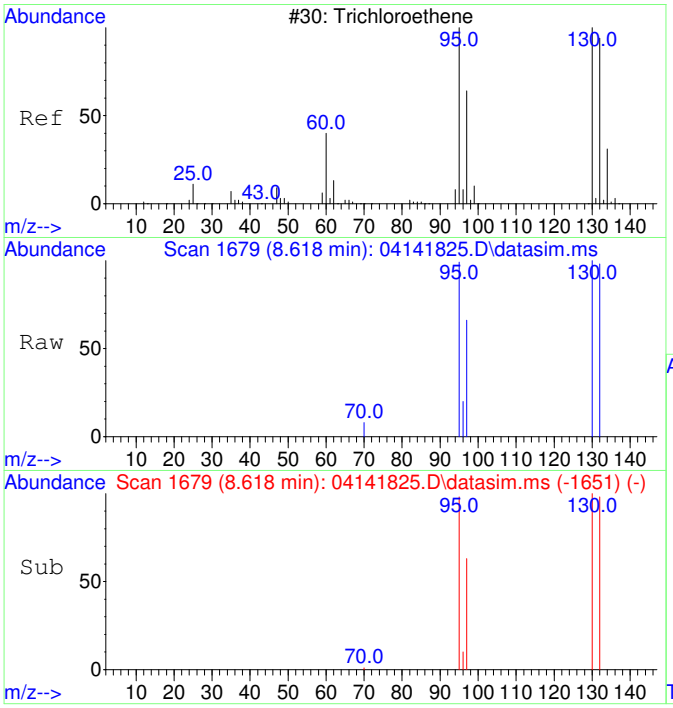


#9
Benzene
Concen: 28.07 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 78 Resp: 433

Ion	Ratio	Lower	Upper
78	100		
77	93.3	0.0	53.6#

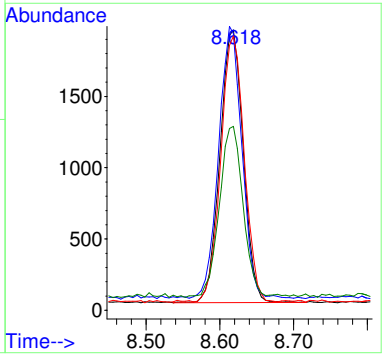


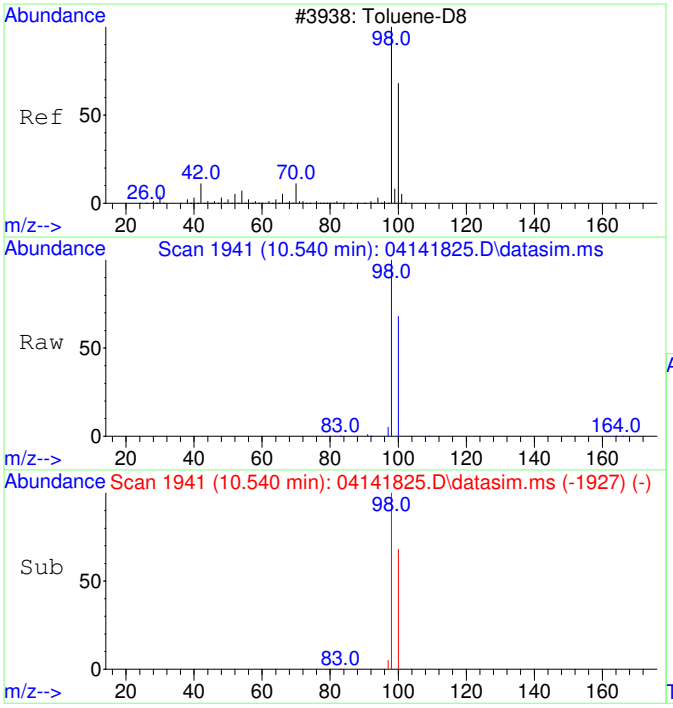


#11
Trichloroethene
Concen: 987.68 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion:130 Resp: 4198

Ion	Ratio	Lower	Upper
130	100		
95	99.2	68.8	128.8
132	97.8	78.6	118.6
97	63.9	43.7	83.7

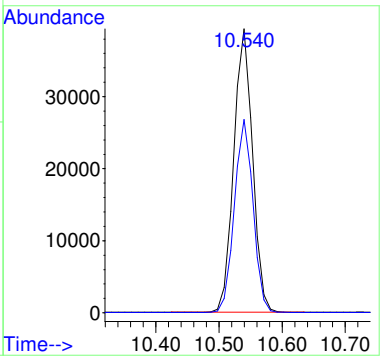


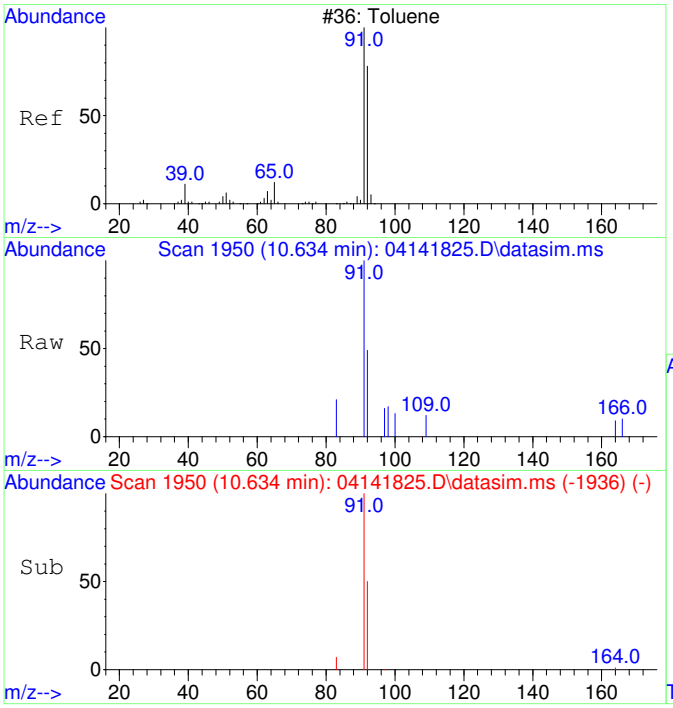


#12
Toluene-d8
Concen: 5025.23 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 98 Resp: 81228

Ion	Ratio	Lower	Upper
98	100		
100	67.5	36.9	96.9

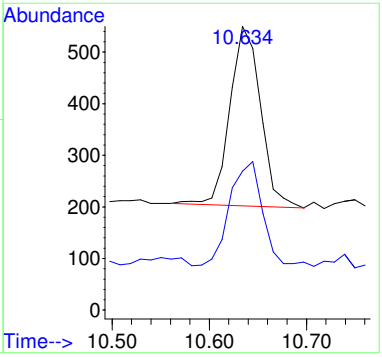


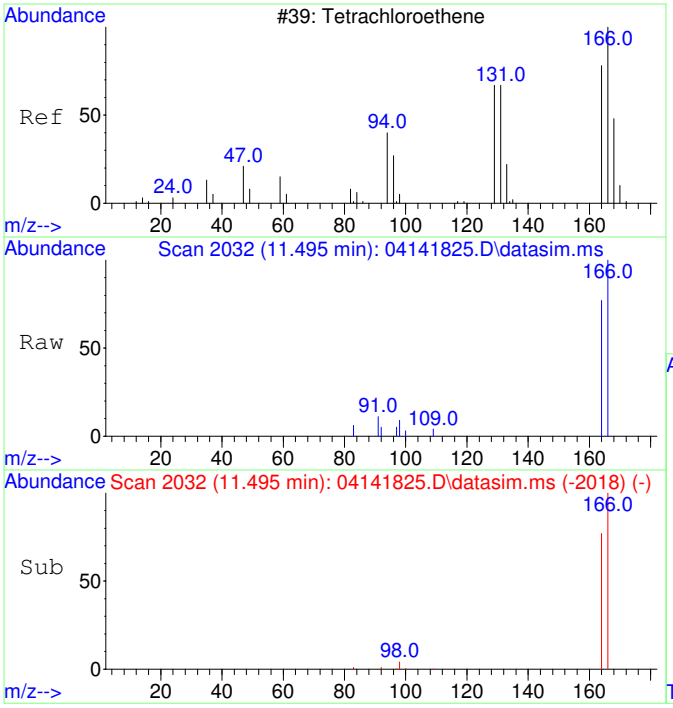


#13
Toluene
Concen: 37.16 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 91 Resp: 756

Ion	Ratio	Lower	Upper
91	100		
92	61.4	28.8	88.8

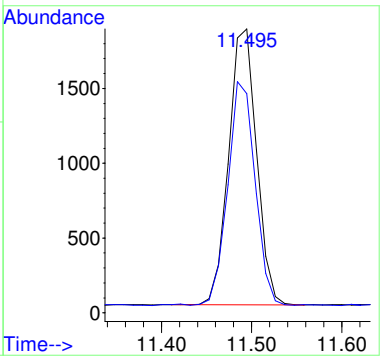


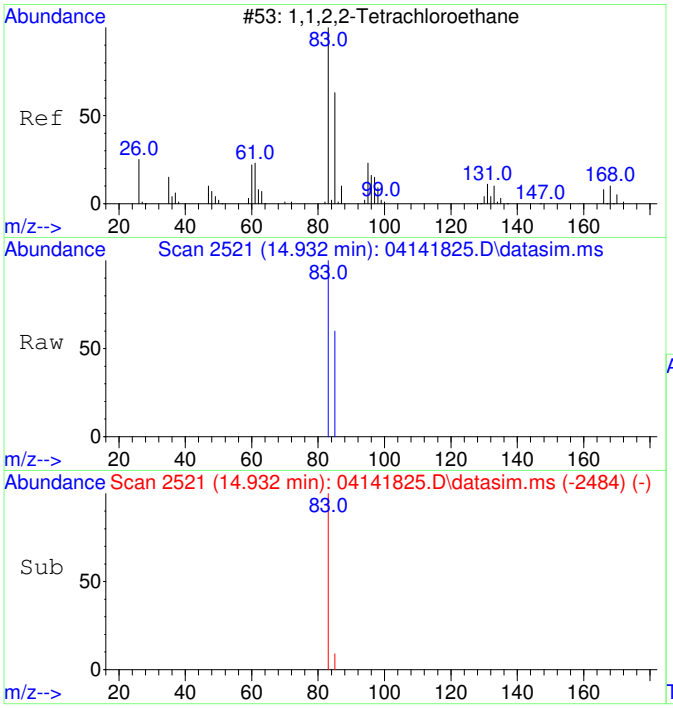


#15
Tetrachloroethene
Concen: 713.74 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion:166 Resp: 3980

Ion	Ratio	Lower	Upper
166	100		
164	79.9	48.0	108.0

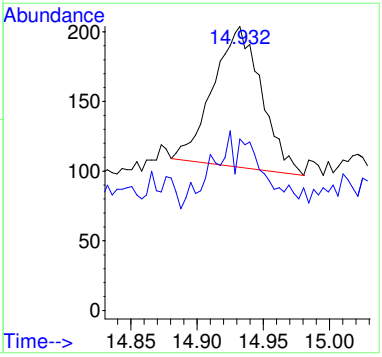


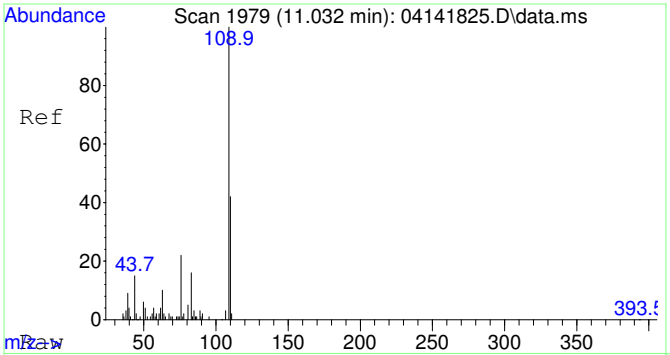


#21
1,1,2,2-Tetrachloroethane
Concen: 28.85 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.011 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 83 Resp: 255

Ion	Ratio	Lower	Upper
83	100		
85	21.2	34.3	94.3#

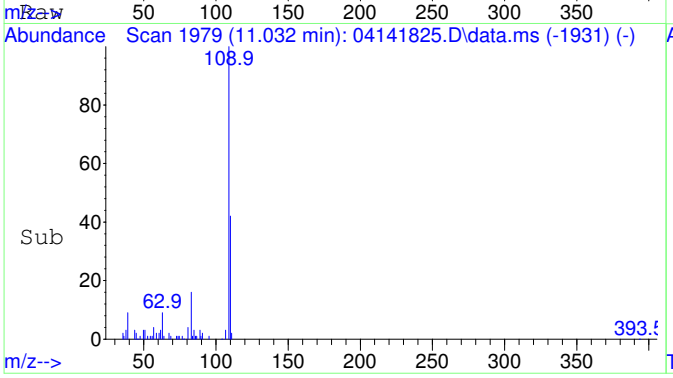


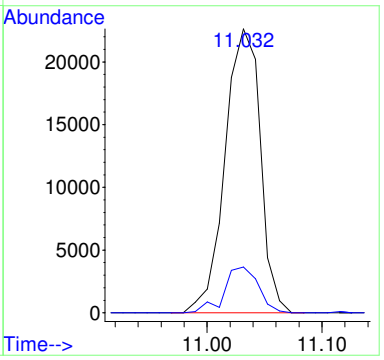


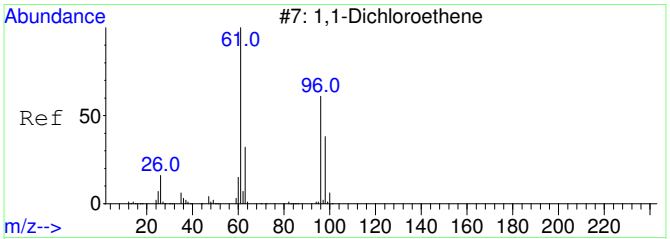
#25
2-Fluorotoluene SCAN
Concen: 5204.24 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

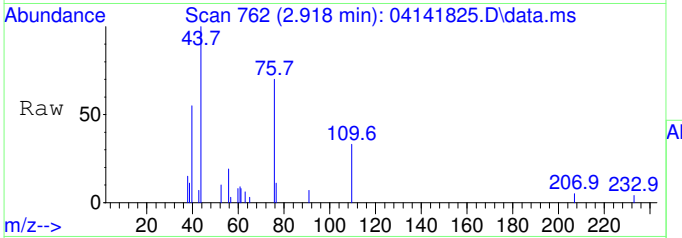
Tgt Ion:109 Resp: 48427

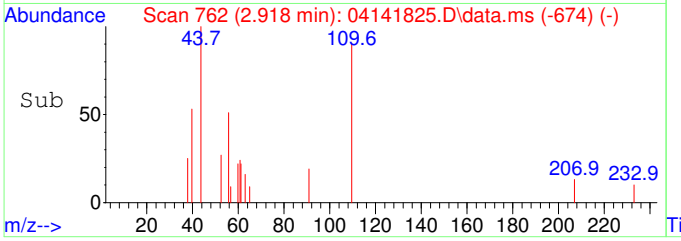
Ion	Ratio	Lower	Upper
109	100		
83	15.6	0.0	49.2







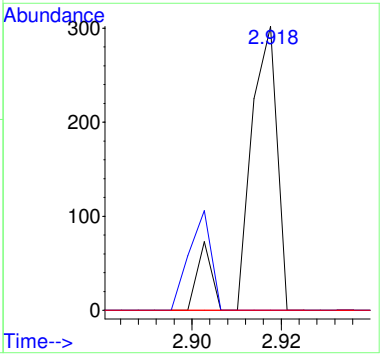


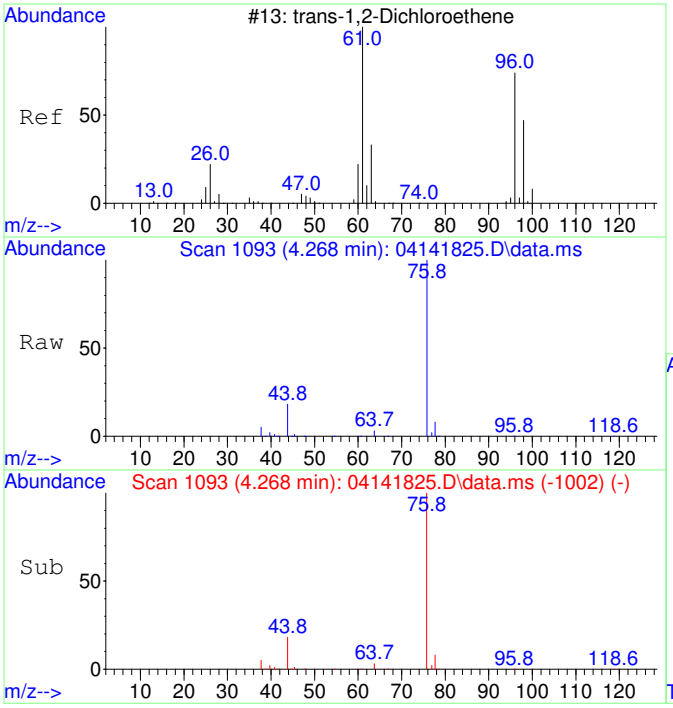


#26
1,1-Dichloroethene SCAN
Concen: 64.97 ug/L
RT: 2.918 min Scan# 762
Delta R.T. -0.175 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 61 Resp: 134

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.6	81.6#
98	0.0	7.5	67.5#

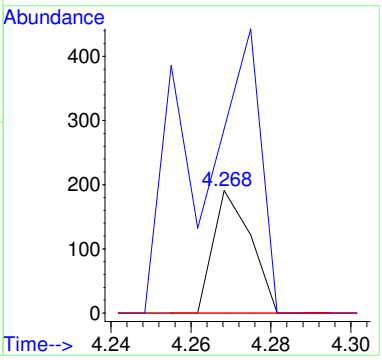


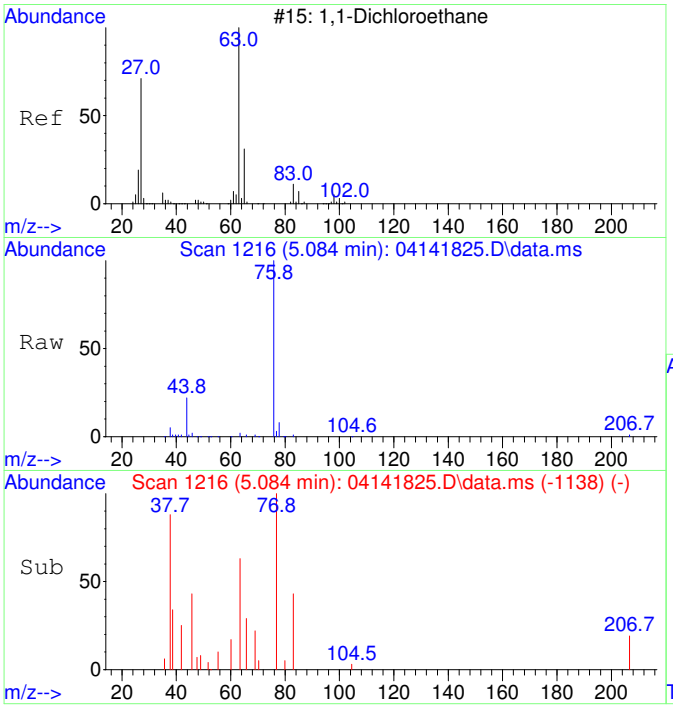


#27
trans-1,2-Dichloroethene SCAN
Concen: 61.86 ug/L
RT: 4.268 min Scan# 1093
Delta R.T. -0.040 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 61 Resp: 125

Ion	Ratio	Lower	Upper
61	100		
96	397.6	51.8	111.8#
98	0.0	22.7	82.7#

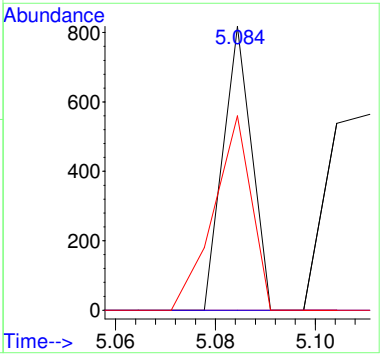


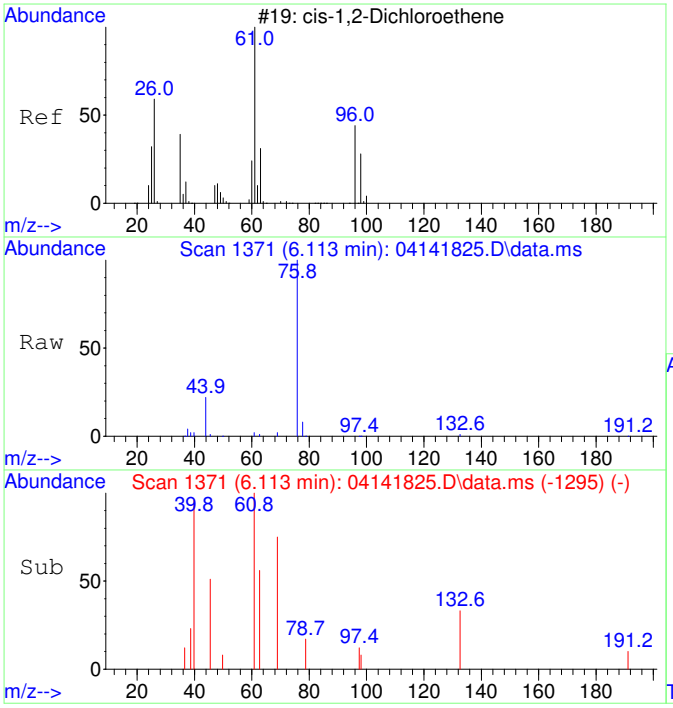


#28
1,1-Dichloroethane SCAN
Concen: 105.44 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 63 Resp: 326

Ion	Ratio	Lower	Upper
63	100		
65	0.0	2.2	62.2#
83	90.5	0.0	38.2#

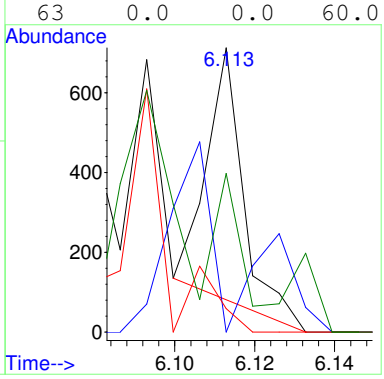


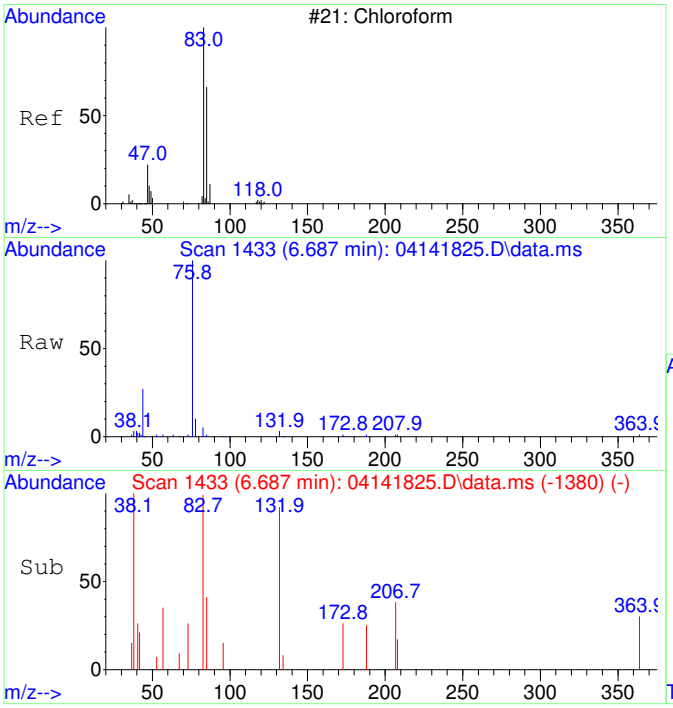


#29
cis-1,2-Dichloroethene SCAN
Concen: 153.68 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.006 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 61 Resp: 373

Ion	Ratio	Lower	Upper
61	100		
96	142.1	49.4	109.4#
98	0.0	9.5	69.5#
63	0.0	0.0	60.0

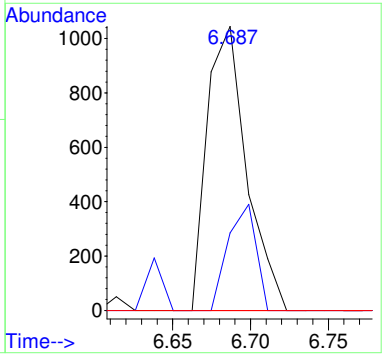


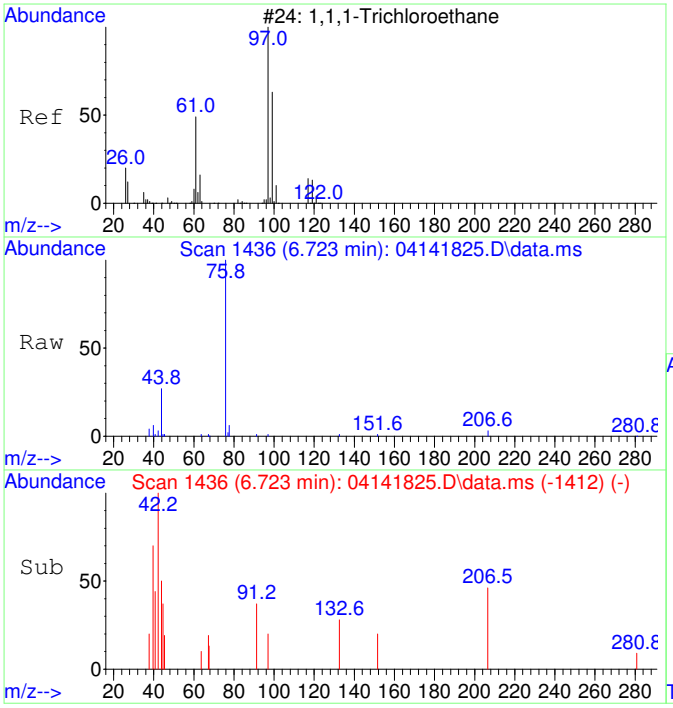


#30
Chloroform SCAN
Concen: 632.43 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 83 Resp: 1852

Ion	Ratio	Lower	Upper
83	100		
85	26.6	47.8	107.8#
47	0.0	8.2	68.2#

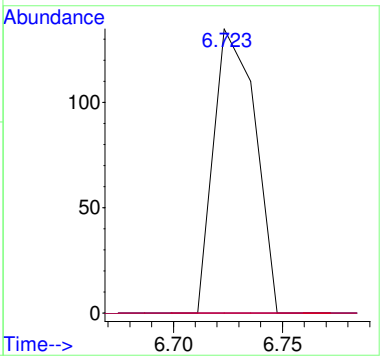


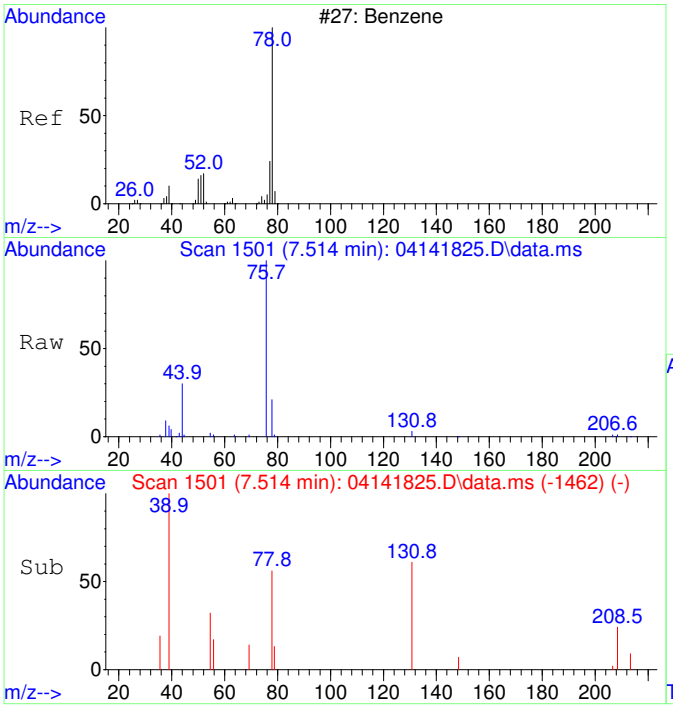


#31
1,1,1-Trichloroethane SCAN
Concen: 48.71 ug/L
RT: 6.723 min Scan# 1436
Delta R.T. -0.207 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 97 Resp: 179

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

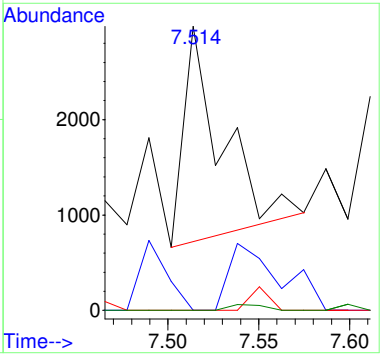


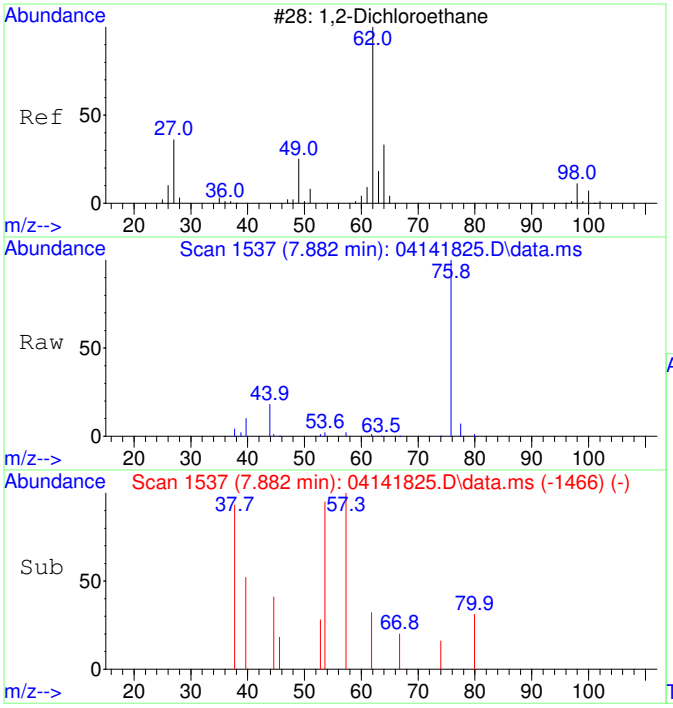


#33
Benzene SCAN
Concen: 394.28 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. -0.025 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 78 Resp: 3159

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	0.0	0.0	47.2
52	0.0	0.0	47.4

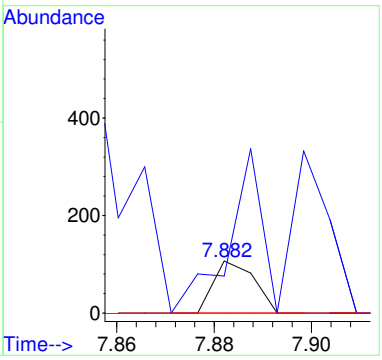


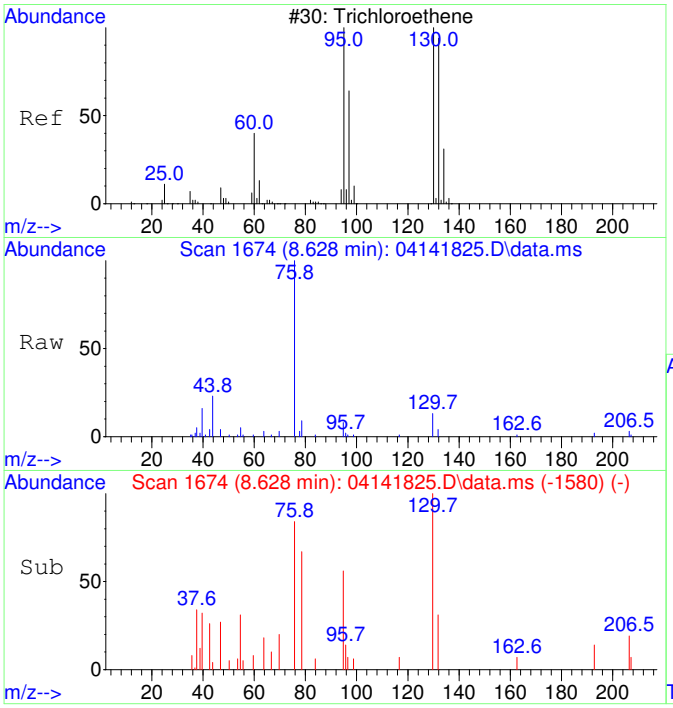


#34
1,2-Dichloroethane SCAN
Concen: 20.41 ug/L
RT: 7.882 min Scan# 1537
Delta R.T. 0.295 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 62 Resp: 62

Ion	Ratio	Lower	Upper
62	100		
64	137.1	4.4	64.4#
49	0.0	1.2	61.2#

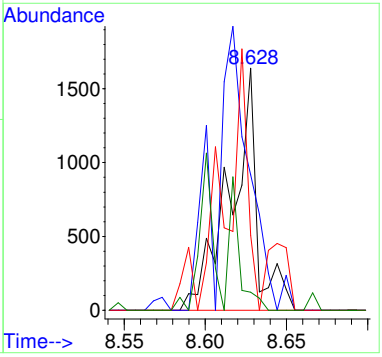


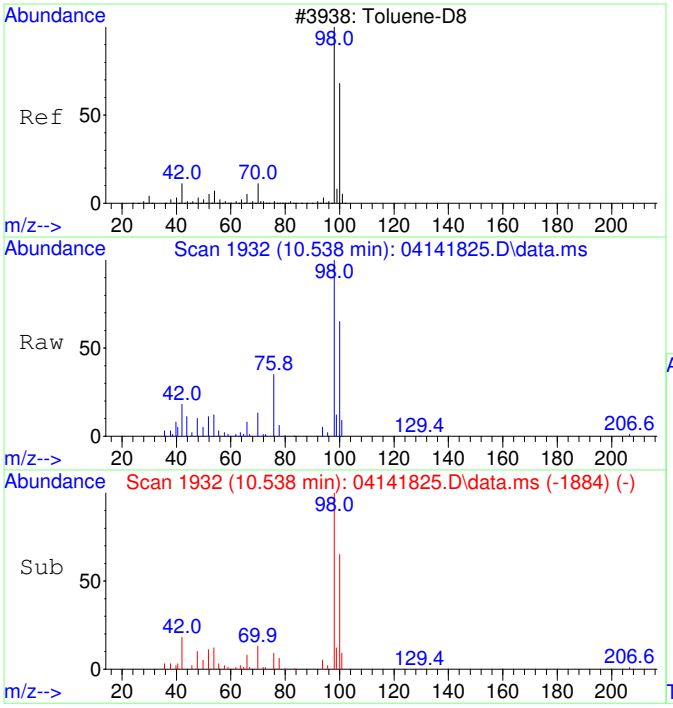


#35
Trichloroethene SCAN
Concen: 950.33 ug/L
RT: 8.628 min Scan# 1674
Delta R.T. 0.011 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion:130 Resp: 1913

Ion	Ratio	Lower	Upper
130	100		
95	145.9	71.3	131.3#
132	92.3	75.1	135.1
97	21.2	41.3	101.3#

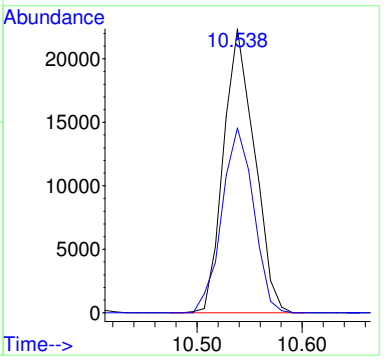


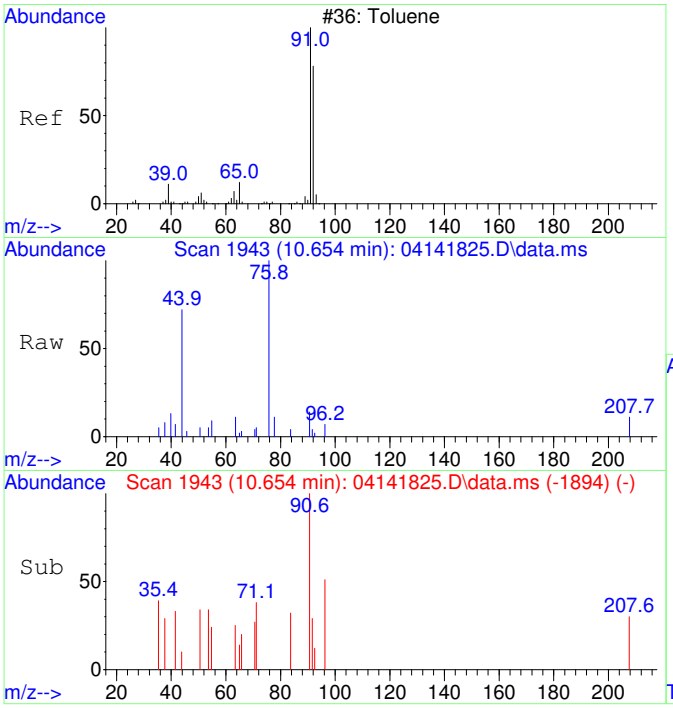


#36
Toluene-d8 SCAN
Concen: 5603.00 ug/L
RT: 10.538 min Scan# 1932
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 98 Resp: 45777

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.3	97.3

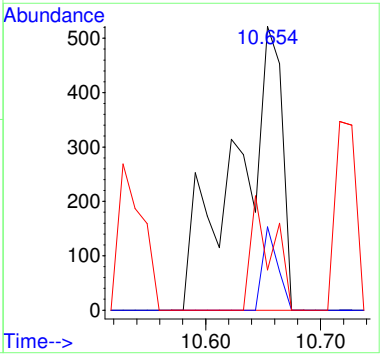


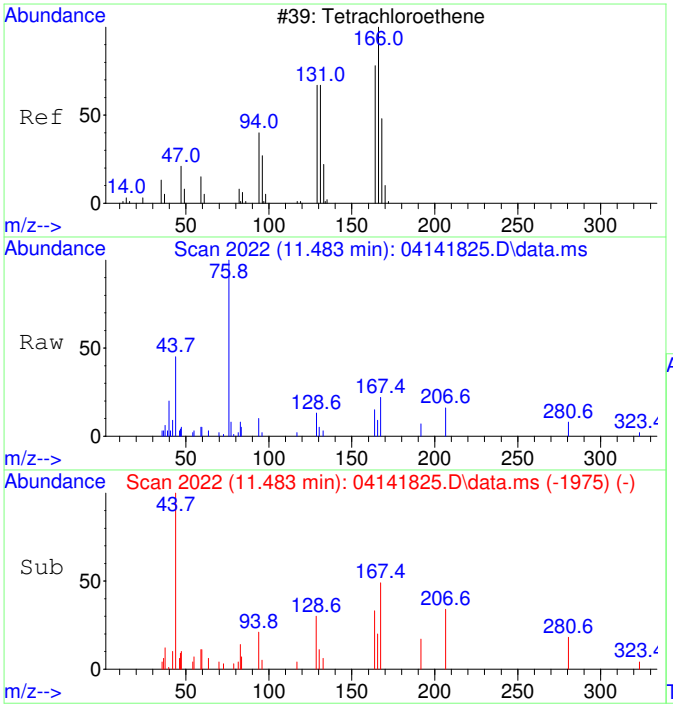


#37
Toluene SCAN
Concen: 158.25 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 91 Resp: 1446

Ion	Ratio	Lower	Upper
91	100		
92	9.8	39.1	99.1#
65	19.4	0.0	43.8

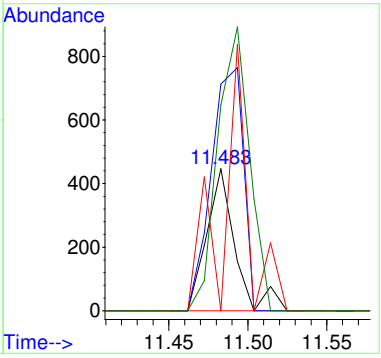


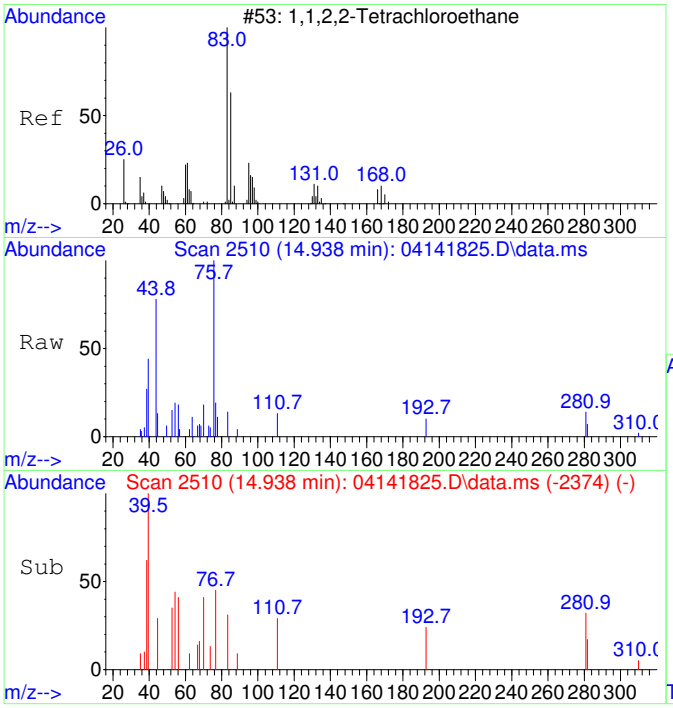


#39
Tetrachloroethene SCAN
Concen: 186.92 ug/L
RT: 11.483 min Scan# 2022
Delta R.T. -0.011 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion:166 Resp: 557

Ion	Ratio	Lower	Upper
166	100		
164	194.6	49.8	109.8#
131	166.6	42.0	102.0#
129	224.6	30.1	90.1#

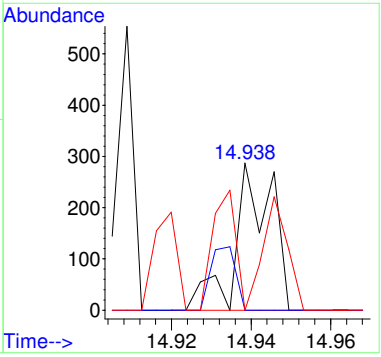


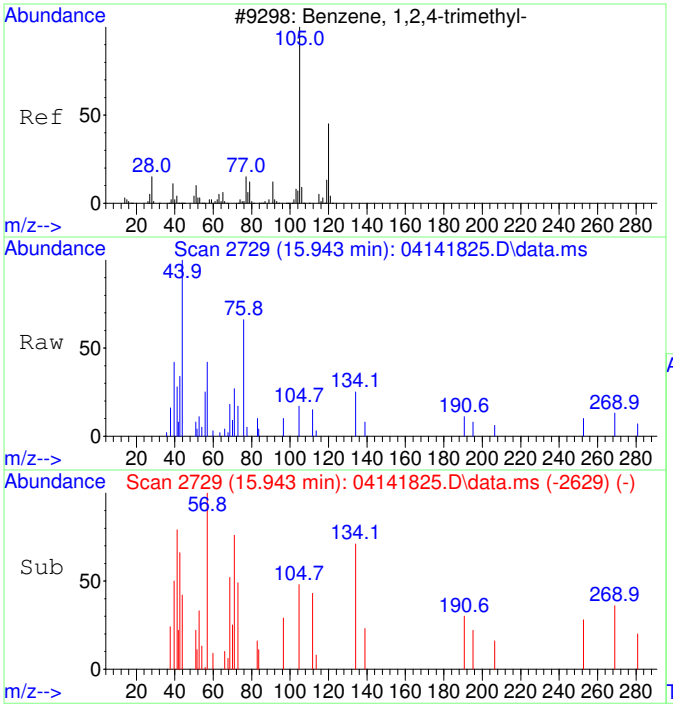


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 33.49 ug/L
RT: 14.938 min Scan# 2510
Delta R.T. 0.004 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 83 Resp: 185

Ion	Ratio	Lower	Upper
83	100		
85	29.2	32.4	92.4#
95	50.8	0.0	41.2#

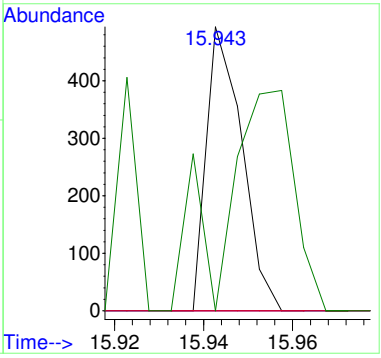


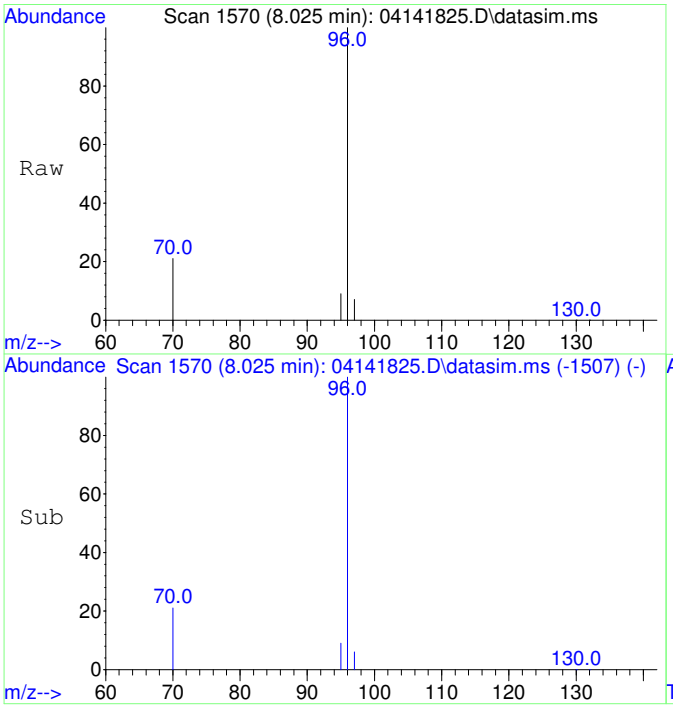


#47
1,2,4-Trimethylbenzene SCAN
Concen: 22.49 ug/L
RT: 15.943 min Scan# 2729
Delta R.T. -0.005 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion:105 Resp: 275

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.8	72.8#
119	0.0	0.0	42.5
77	152.7	0.0	42.2#

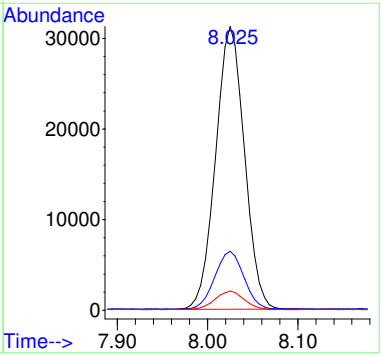




#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. -0.000 min
Lab File: 04141825.D
Acq: 14 Apr 2018 20:21

Tgt Ion: 96 Resp: 69088

Ion	Ratio	Lower	Upper
96	100		
70	20.8	0.0	50.7
97	6.6	0.0	36.7



1804005-01

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141829.D
Acq On : 14 Apr 2018 21:57
InstName : AG5975C
Operator : RH
Sample : 1804005-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 16 09:40:10 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

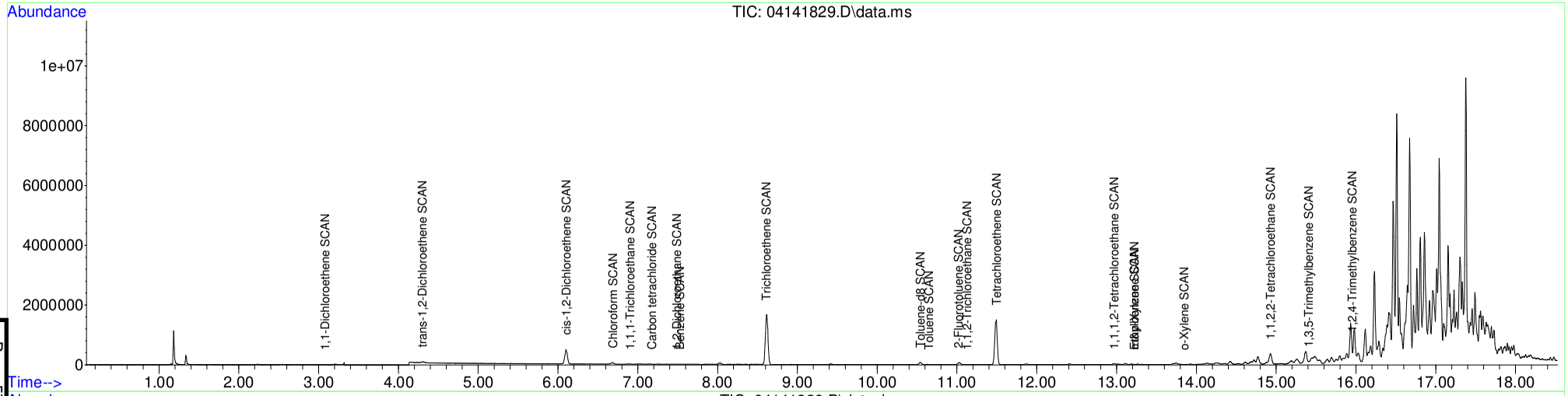
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	112450	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	81201	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	95414	5055.20 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.10%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	1813	367.30 ug/L	92
3] trans-1,2-Dichloroethene	4.303	61	42516	8429.63 ug/L	100
4] 1,1-Dichloroethane	5.066	63	248	36.93 ug/L	95
5] cis-1,2-Dichloroethene	6.101	61	575947	92702.57 ug/L	99
6] Chloroform	6.676	83	76151	10422.03 ug/L	100
7] 1,1,1-Trichloroethane	6.932	97	408	57.19 ug/L	93
8] Carbon tetrachloride	7.211	117	1019	156.55 ug/L	99
9] Benzene	7.540	78	1590	88.27 ug/L	74
10] 1,2-Dichloroethane	7.588	62	139	22.13 ug/L #	1
11] Trichloroethene	8.613	130	1176168	236984.91 ug/L	99
13] Toluene	10.634	91	9789	412.06 ug/L	99
14] 1,1,2-Trichloroethane	11.212	97	118	22.48 ug/L #	53
15] Tetrachloroethene	11.484	166	1033225	158681.74 ug/L	98
17] 1,1,1,2-Tetrachloroethane	12.964	131	463	83.08 ug/L #	55
19] m&p-Xylene	13.226	91	1406	66.63 ug/L	95
20] o-Xylene	13.846	91	694	31.21 ug/L	87
21] 1,1,2,2-Tetrachloroethane	14.932	83	32680	3166.51 ug/L #	55
22] 1,3,5-Trimethylbenzene	15.409	105	2330	89.53 ug/L	90
23] 1,2,4-Trimethylbenzene	15.951	105	5599	211.50 ug/L	91
25) 2-Fluorotoluene SCAN	11.021	109	56672	5215.72 ug/L	95
26) 1,1-Dichloroethene SCAN	3.081	61	106	44.02 ug/L #	1
27) trans-1,2-Dichloroethe...	4.302	61	25577	10839.76 ug/L	85
29) cis-1,2-Dichloroethene...	6.100	61	342608	120889.76 ug/L	91
30) Chloroform SCAN	6.687	83	46934	13725.71 ug/L	85
31) 1,1,1-Trichloroethane ...	6.906	97	447	104.17 ug/L #	29
32) Carbon tetrachloride SCAN	7.174	117	395	127.98 ug/L #	21
33) Benzene SCAN	7.526	78	1943	207.69 ug/L #	65
34) 1,2-Dichloroethane SCAN	7.490	62	123	34.67 ug/L #	42
35) Trichloroethene SCAN	8.612	130	635015	270159.60 ug/L	95
36) Toluene-d8 SCAN	10.539	98	50850	5330.16 ug/L	90
37) Toluene SCAN	10.644	91	5766	540.42 ug/L	84
38) 1,1,2-Trichloroethane ...	11.126	97	327	100.08 ug/L #	17
39) Tetrachloroethene SCAN	11.494	166	508456	146129.08 ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.971	131	169	62.00 ug/L #	29
42) Ethylbenzene SCAN	13.225	91	766	54.77 ug/L	77
43) m&p-Xylene SCAN	13.225	91	766	33.66 ug/L #	70
44) o-Xylene SCAN	13.845	91	505	40.98 ug/L #	19
45) 1,1,2,2-Tetrachloroeth...	14.931	83	18042	2796.86 ug/L #	63
46) 1,3,5-Trimethylbenzene...	15.403	105	1463	103.28 ug/L #	46
47) 1,2,4-Trimethylbenzene...	15.949	105	1632	114.30 ug/L	74

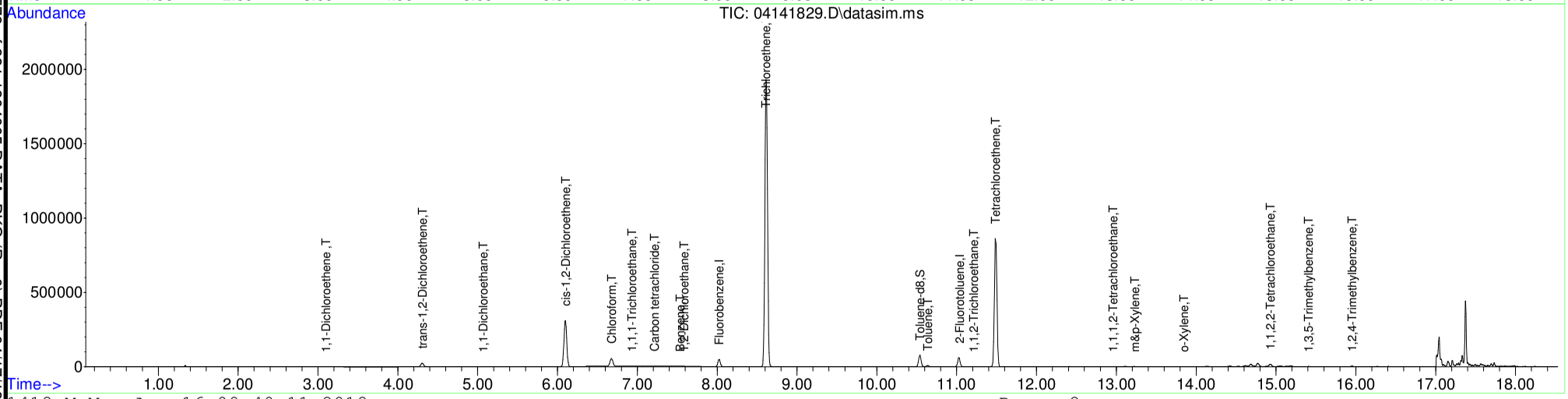
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141829.D
Acq On : 14 Apr 2018 21:57
InstName : AG5975C
Operator : RH
Sample : 1804005-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 16 09:40:10 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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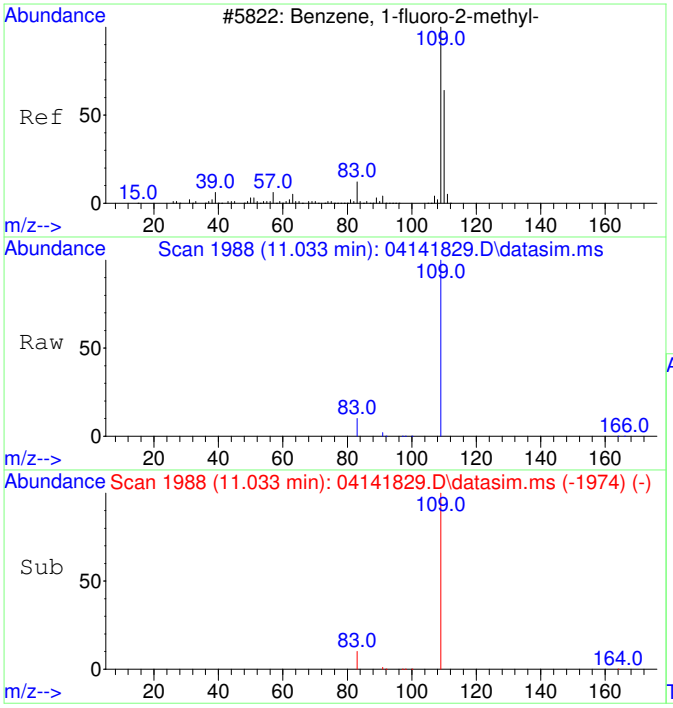
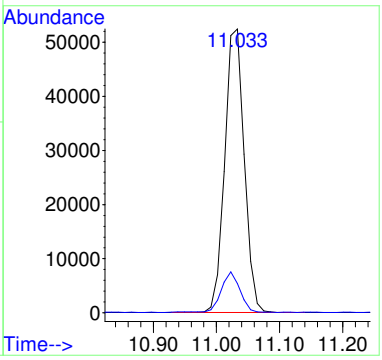
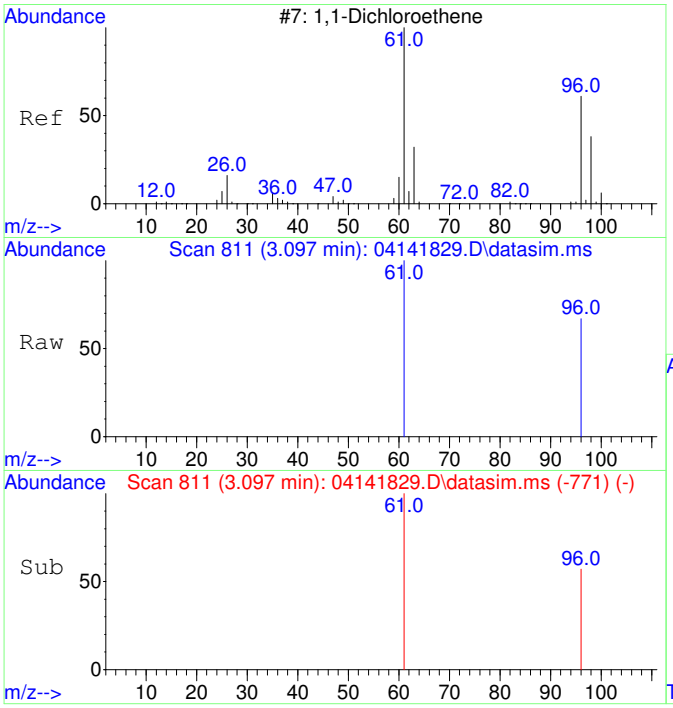


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:109 Resp: 112450

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

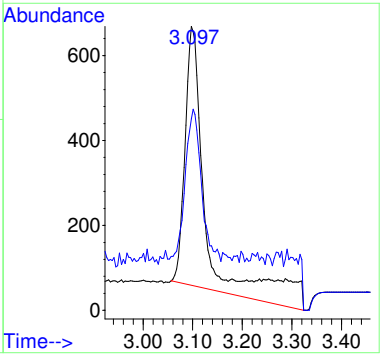




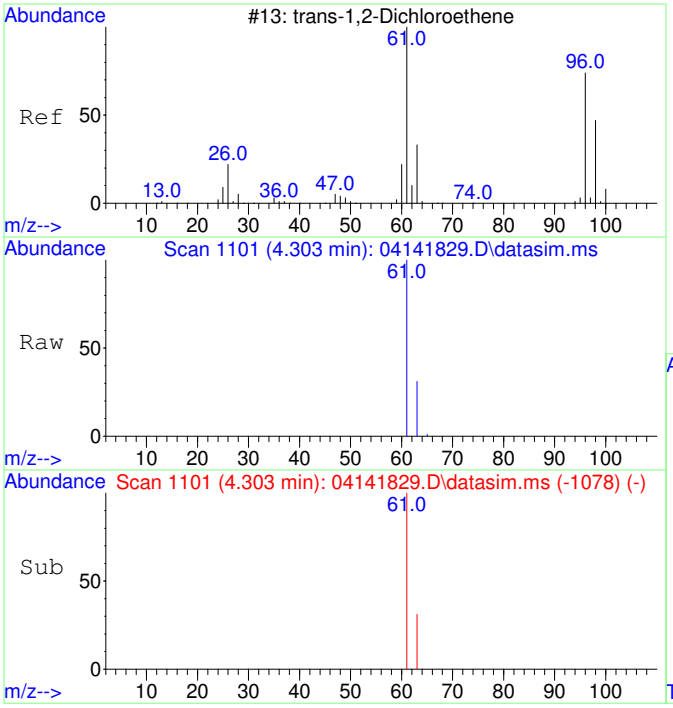
#2
1,1-Dichloroethene
Concen: 367.30 ug/L
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 1813

Ion	Ratio	Lower	Upper
61	100		
96	61.8	26.1	86.1



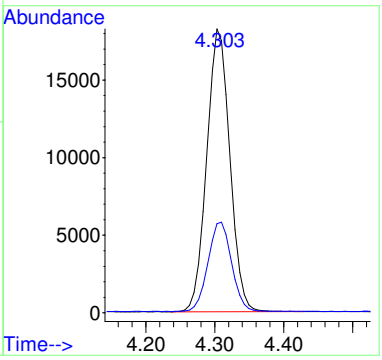
Before MI:
IMPROPER
BASELINE

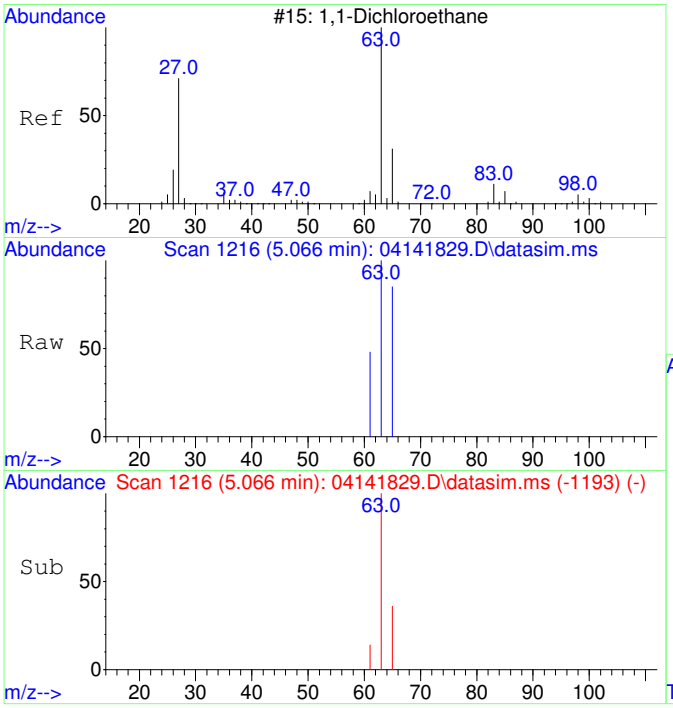


#3
trans-1,2-Dichloroethene
Concen: 8429.63 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 42516

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.0	62.0

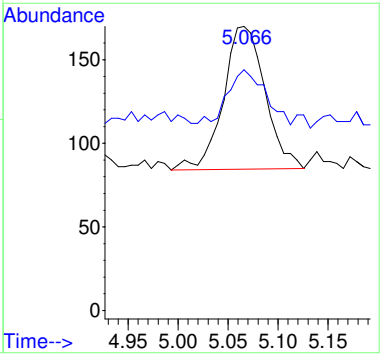


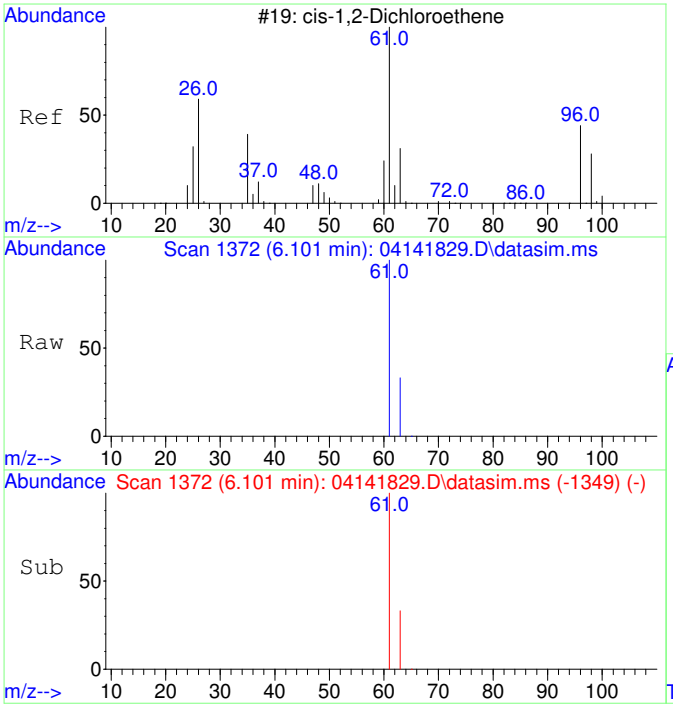


#4
1,1-Dichloroethane
Concen: 36.93 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 63 Resp: 248

Ion	Ratio	Lower	Upper
63	100		
65	34.7	1.8	61.8

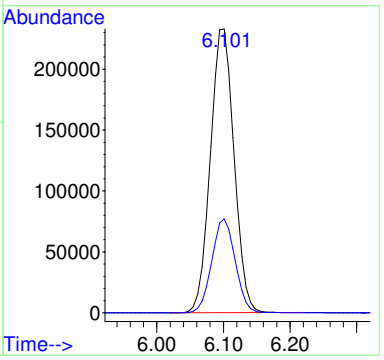


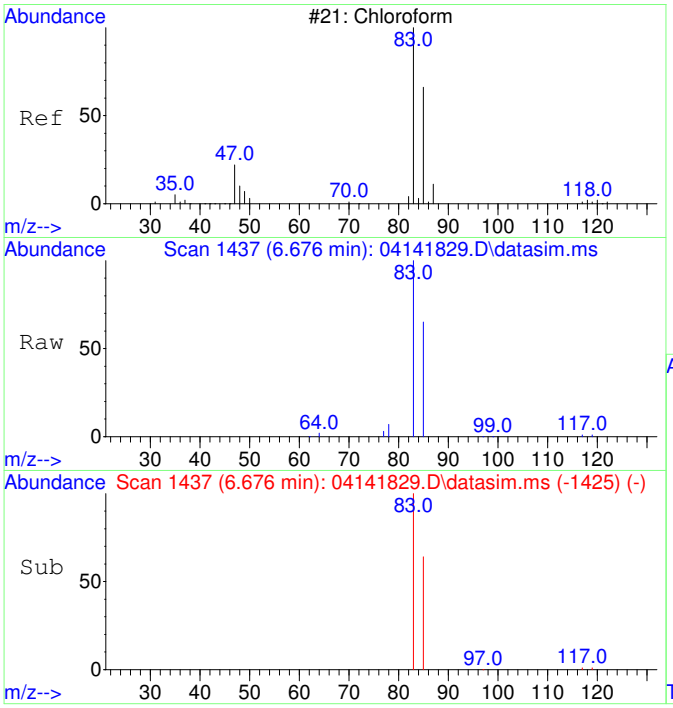


#5
cis-1,2-Dichloroethene
Concen: 92702.57 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 575947

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.0	62.0

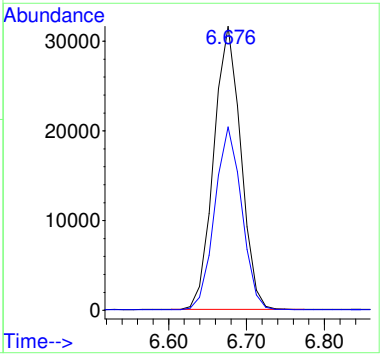


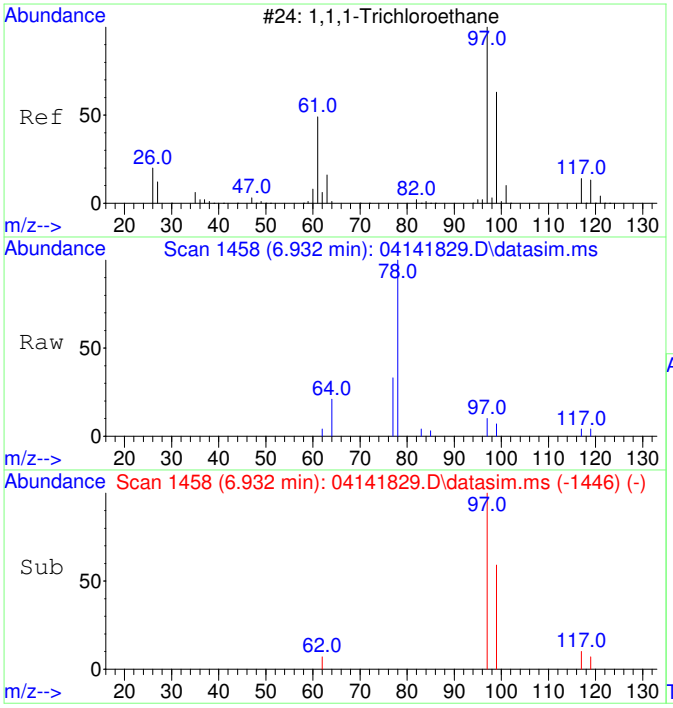


#6
Chloroform
Concen: 10422.03 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 83 Resp: 76151

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.2	94.2

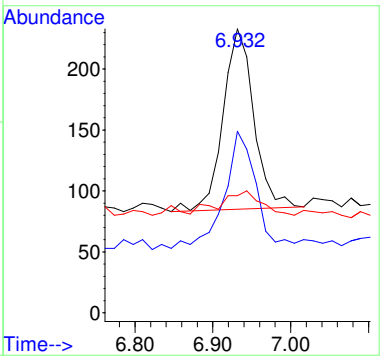


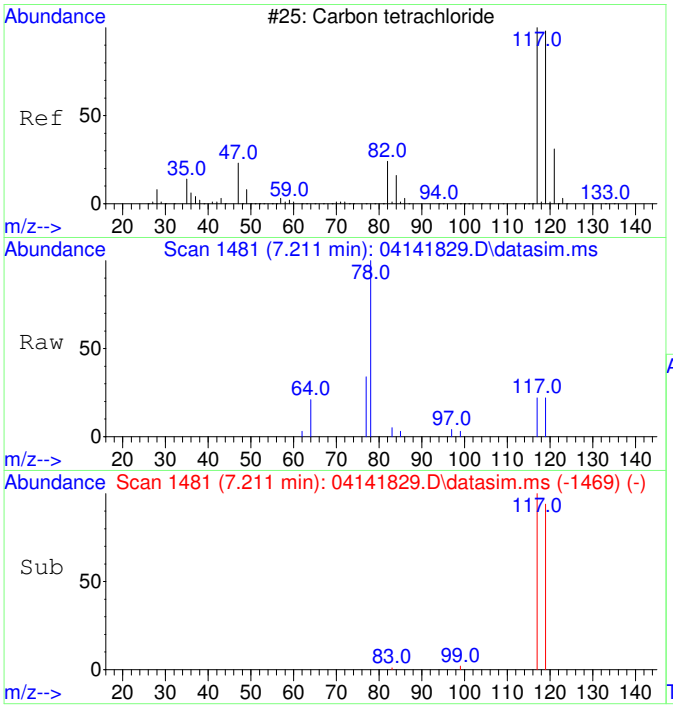


#7
1,1,1-Trichloroethane
Concen: 57.19 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 97 Resp: 408

Ion	Ratio	Lower	Upper
97	100		
99	69.4	34.5	94.5
117	17.9	0.0	42.6

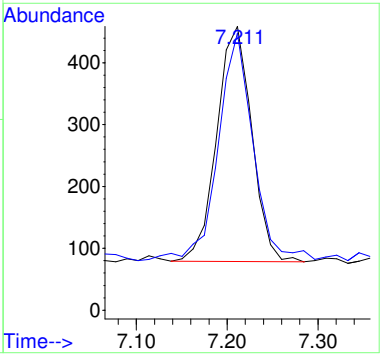


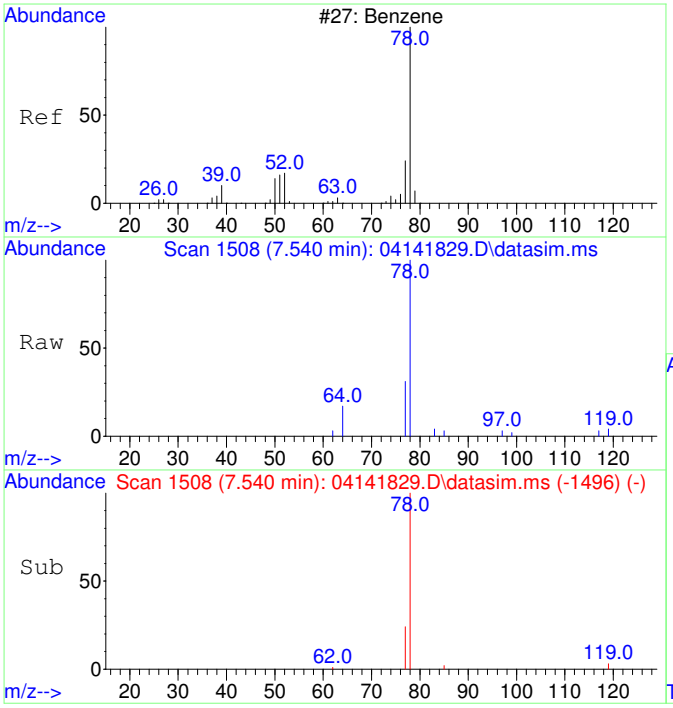


#8
Carbon tetrachloride
Concen: 156.55 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:117 Resp: 1019

Ion	Ratio	Lower	Upper
117	100		
119	95.5	64.5	124.5

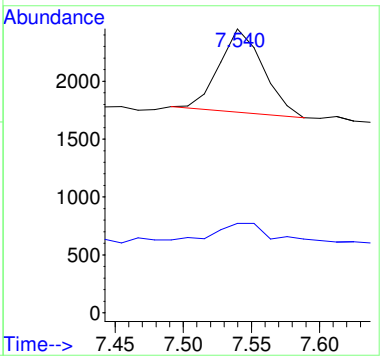


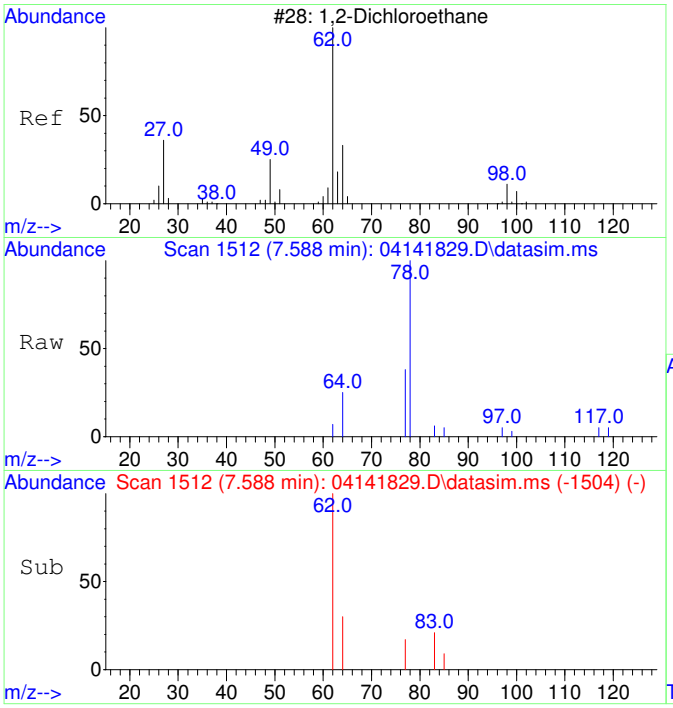


#9
Benzene
Concen: 88.27 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 78 Resp: 1590

Ion	Ratio	Lower	Upper
78	100		
77	36.2	0.0	53.6

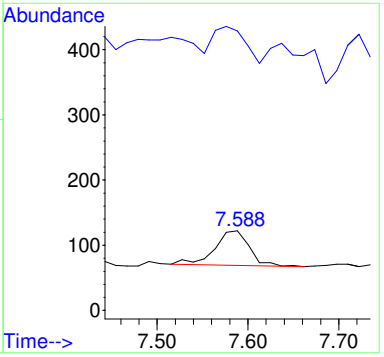


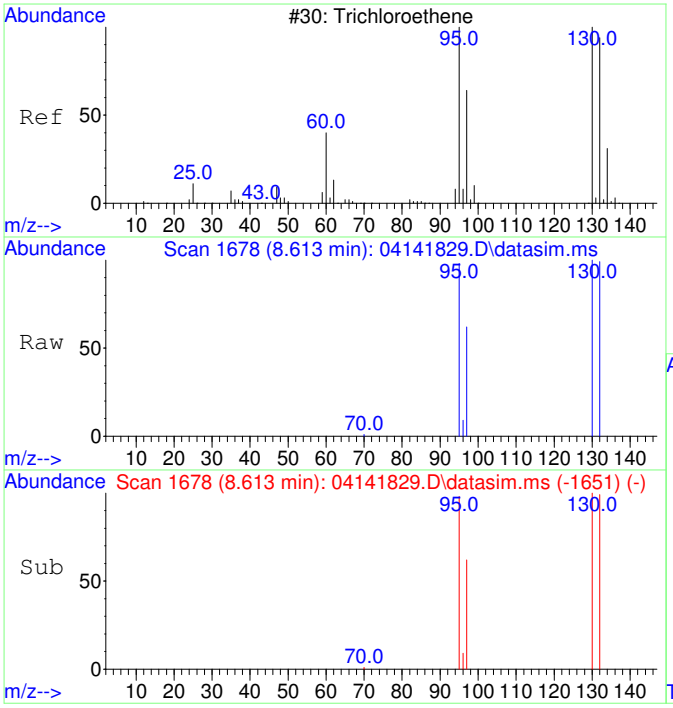


#10
1,2-Dichloroethane
Concen: 22.13 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 62 Resp: 139

Ion	Ratio	Lower	Upper
62	100		
64	104.3	1.8	61.8#

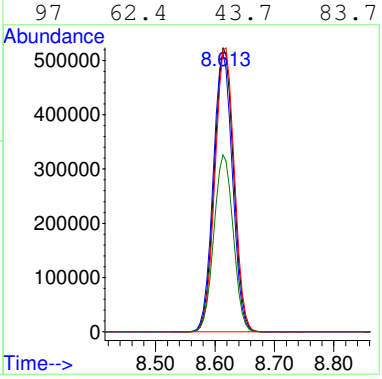


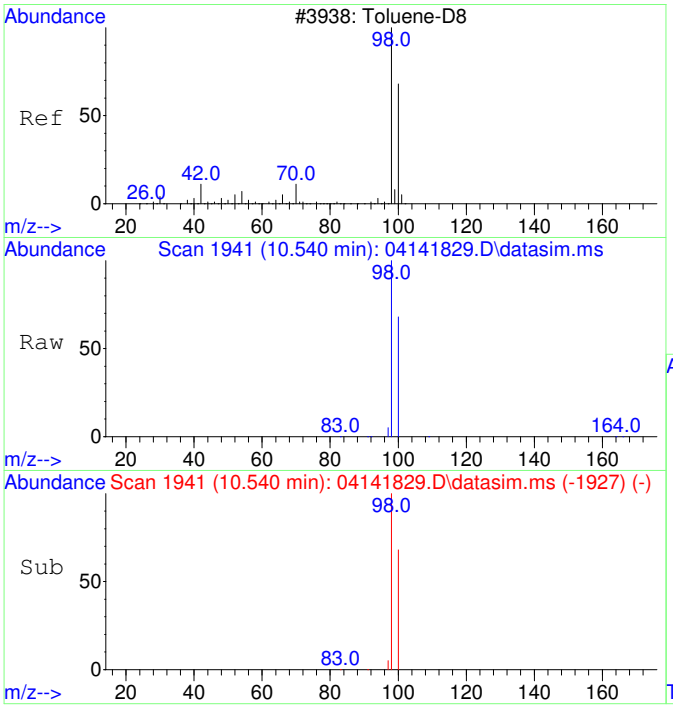


#11
Trichloroethene
Concen: 236984.91 ug/L
RT: 8.613 min Scan# 1678
Delta R.T. -0.005 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:130 Resp: 1176168

Ion	Ratio	Lower	Upper
130	100		
95	98.0	68.8	128.8
132	100.2	78.6	118.6
97	62.4	43.7	83.7

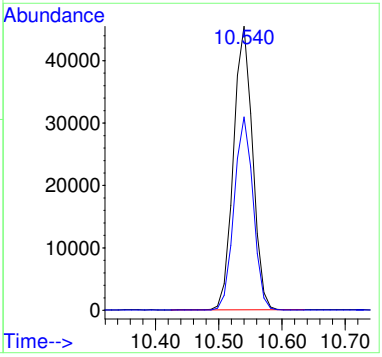


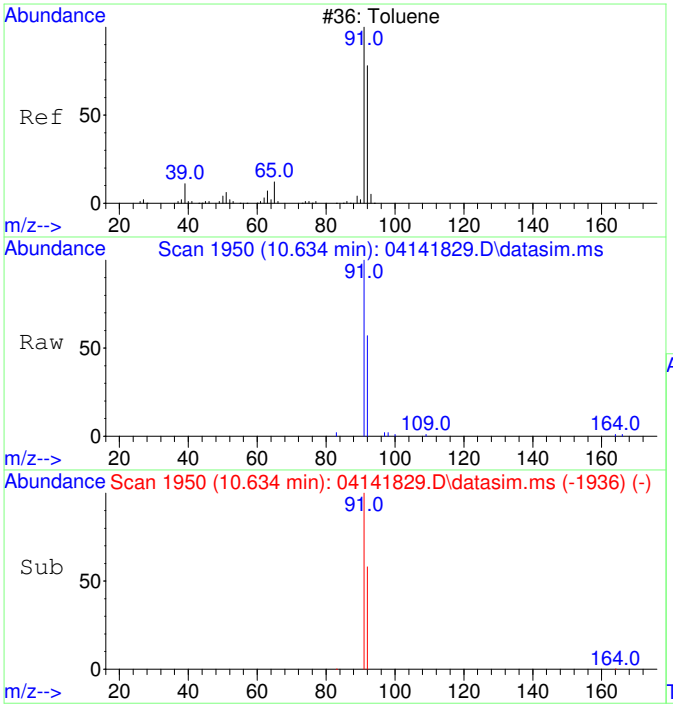


#12
Toluene-d8
Concen: 5055.20 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 98 Resp: 95414

Ion	Ratio	Lower	Upper
98	100		
100	67.6	36.9	96.9

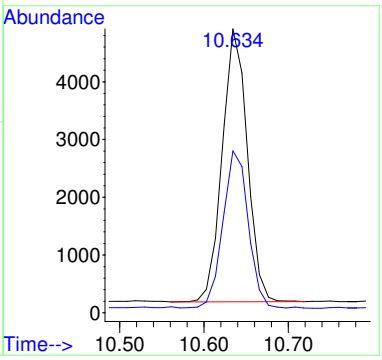


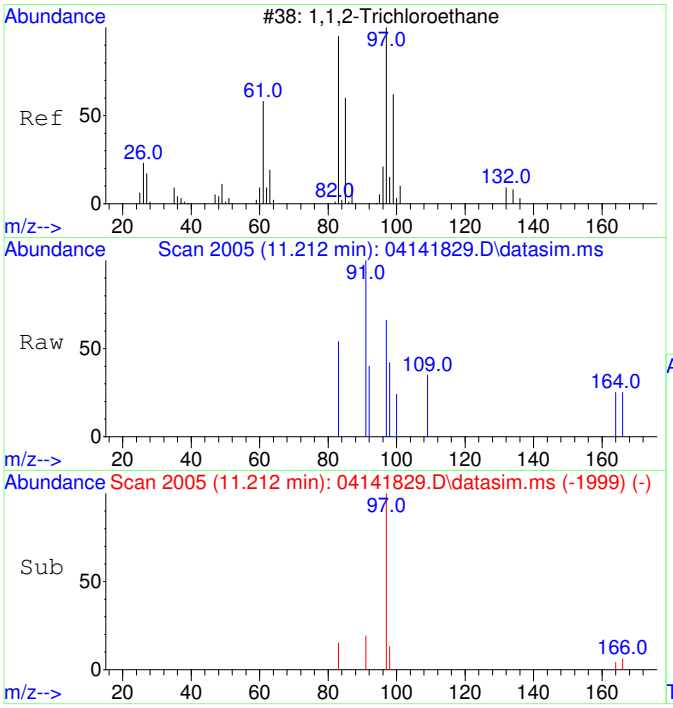


#13
Toluene
Concen: 412.06 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 9789

Ion	Ratio	Lower	Upper
91	100		
92	58.2	28.8	88.8

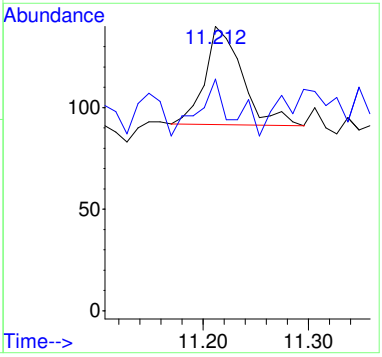


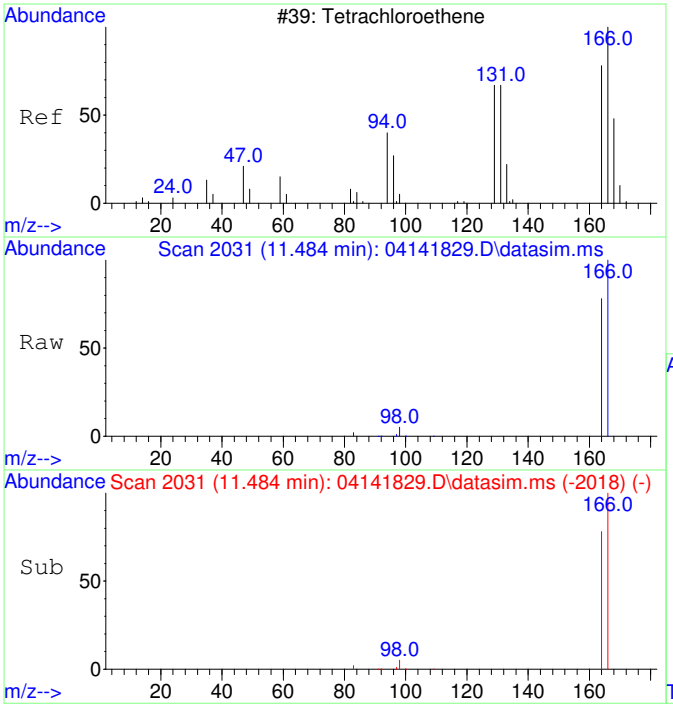


#14
1,1,2-Trichloroethane
Concen: 22.48 ug/L
RT: 11.212 min Scan# 2005
Delta R.T. -0.084 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 97 Resp: 118

Ion	Ratio	Lower	Upper
97	100		
83	41.5	54.3	114.3#

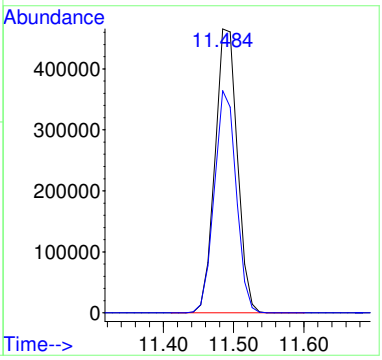


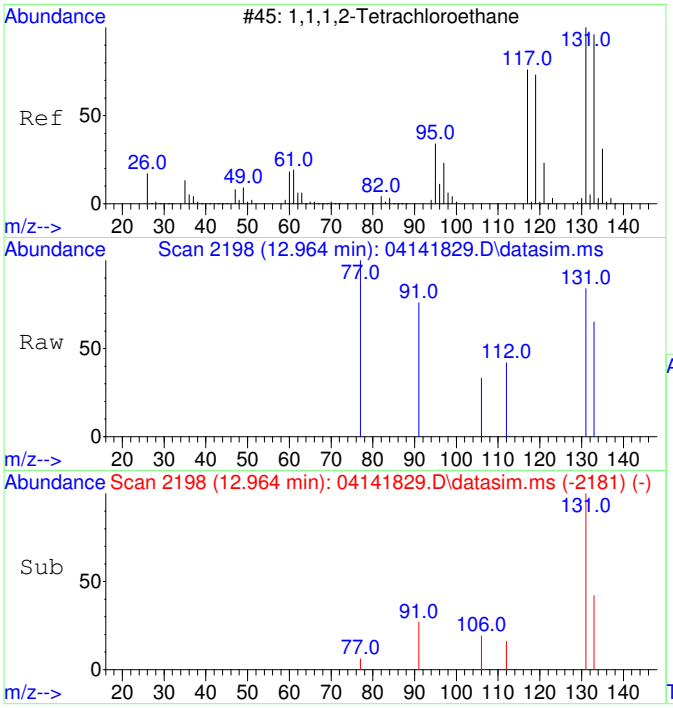


#15
Tetrachloroethene
Concen: 158681.74 ug/L
RT: 11.484 min Scan# 2031
Delta R.T. -0.010 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:166 Resp: 1033225

Ion	Ratio	Lower	Upper
166	100		
164	76.5	48.0	108.0

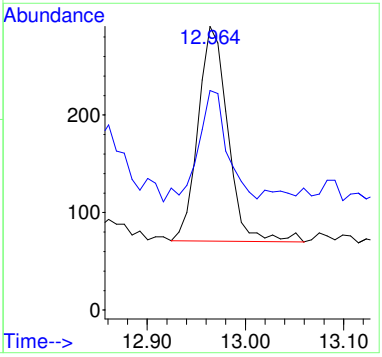


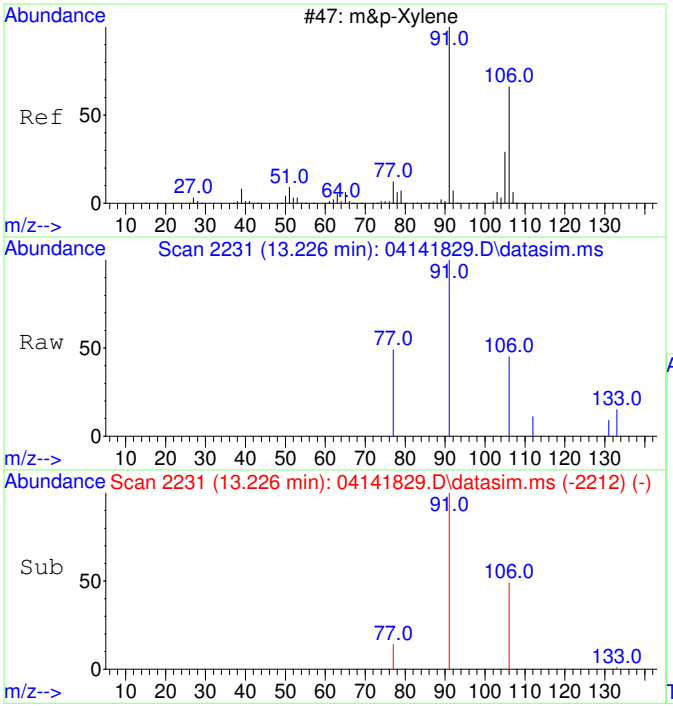


#17
1,1,1,2-Tetrachloroethane
Concen: 83.08 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. -0.016 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:131 Resp: 463

Ion	Ratio	Lower	Upper
131	100		
133	51.0	65.1	125.1#

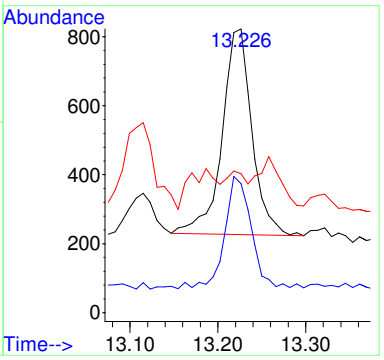


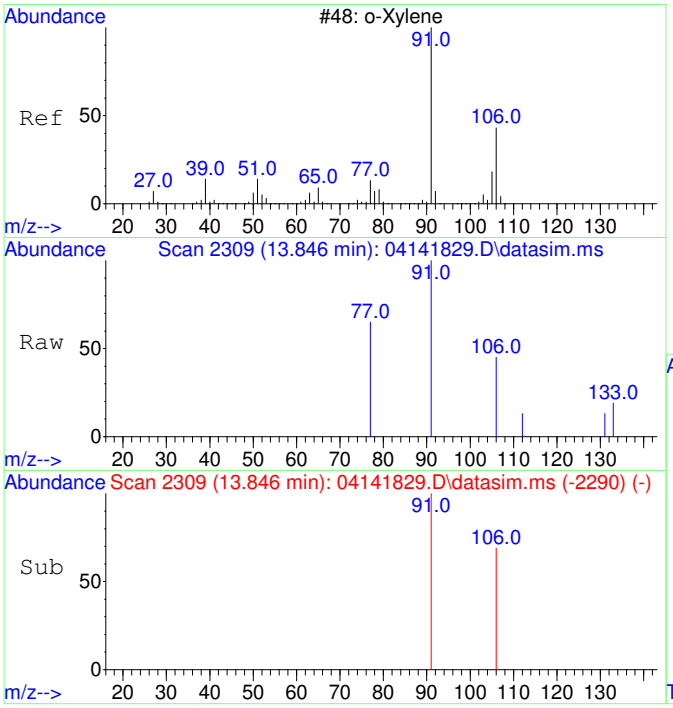


#19
m&p-Xylene
Concen: 66.63 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 1406

Ion	Ratio	Lower	Upper
91	100		
106	46.2	20.0	80.0
77	12.7	0.0	43.4

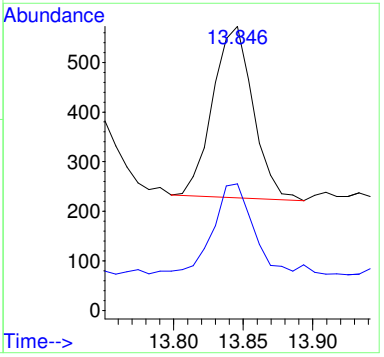


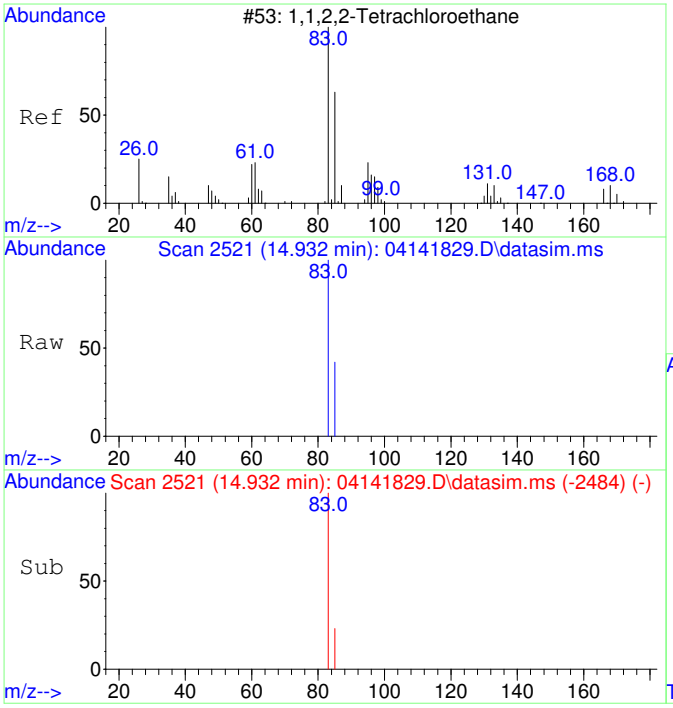


#20
o-Xylene
Concen: 31.21 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 694

Ion	Ratio	Lower	Upper
91	100		
106	55.6	16.9	76.9

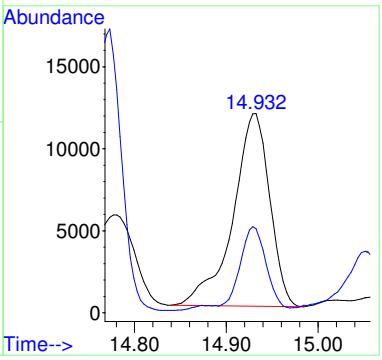


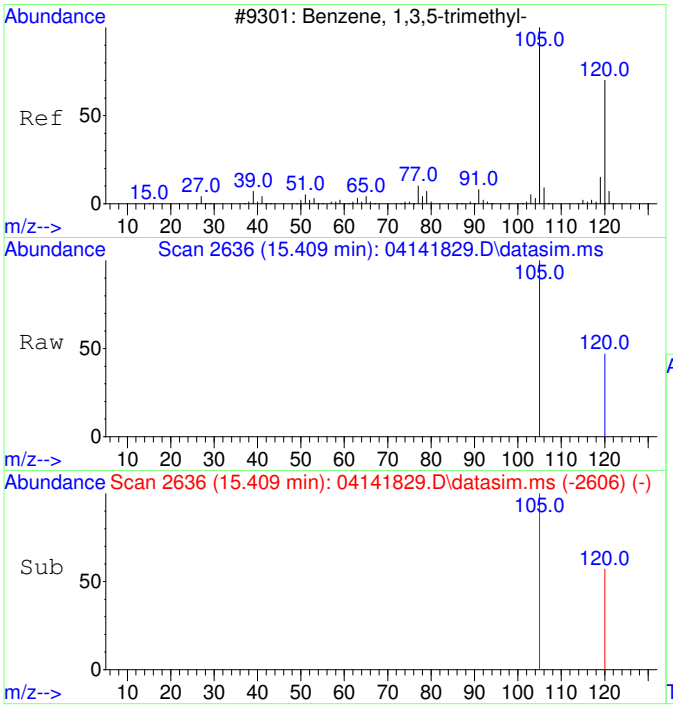


#21
1,1,2,2-Tetrachloroethane
Concen: 3166.51 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.011 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 83 Resp: 32680

Ion	Ratio	Lower	Upper
83	100		
85	29.0	34.3	94.3#

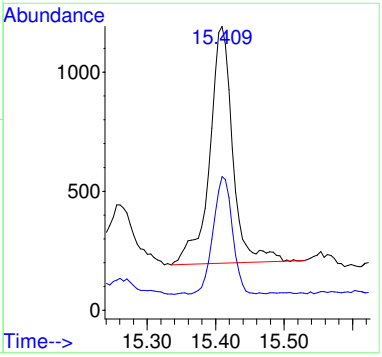


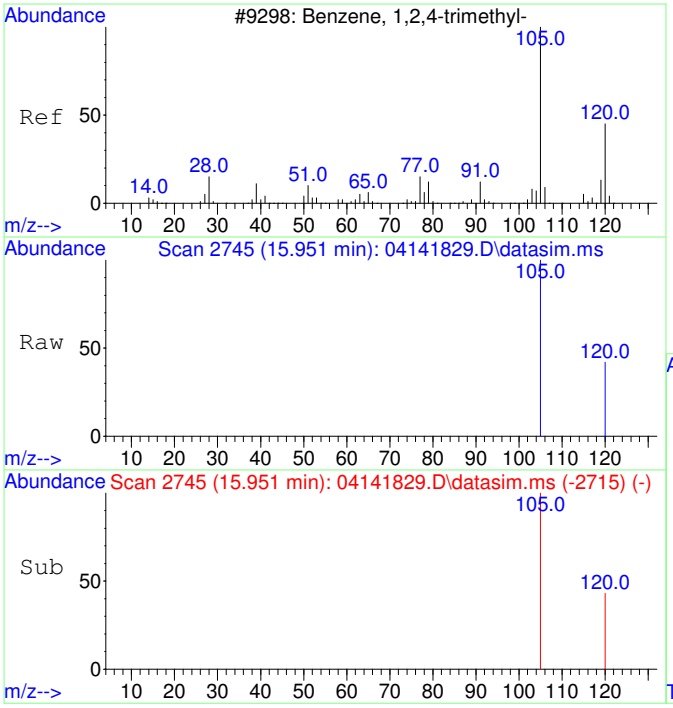


#22
1,3,5-Trimethylbenzene
Concen: 89.53 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:105 Resp: 2330

Ion	Ratio	Lower	Upper
105	100		
120	41.1	18.1	78.1

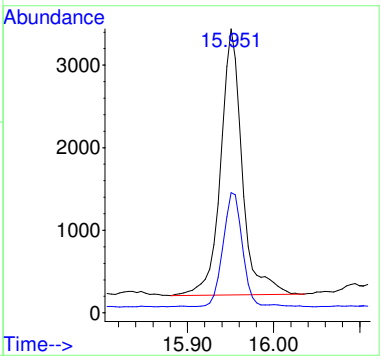


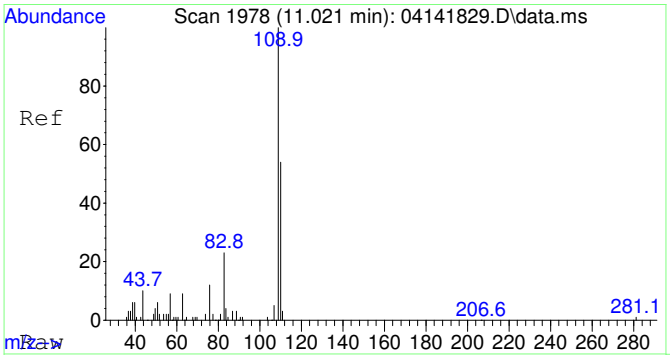


#23
1,2,4-Trimethylbenzene
Concen: 211.50 ug/L
RT: 15.951 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:105 Resp: 5599

Ion	Ratio	Lower	Upper
105	100		
120	38.6	14.5	74.5

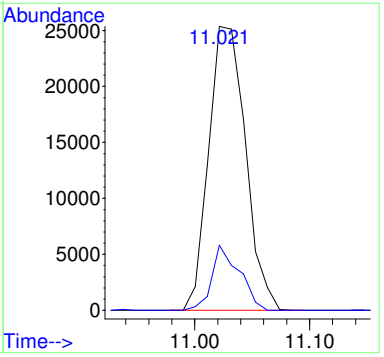


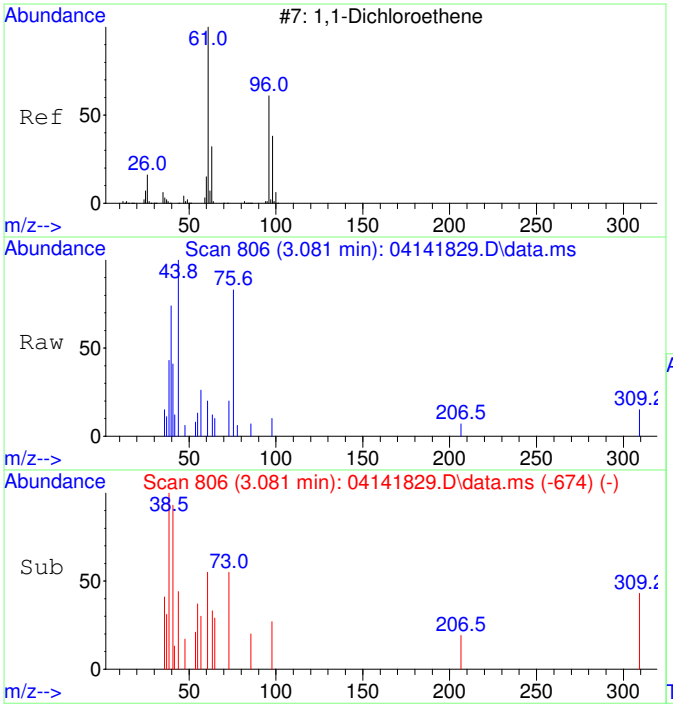


#25
2-Fluorotoluene SCAN
Concen: 5215.72 ug/L
RT: 11.021 min Scan# 1978
Delta R.T. -0.010 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:109 Resp: 56672

Ion	Ratio	Lower	Upper
109	100		
83	17.1	0.0	49.2

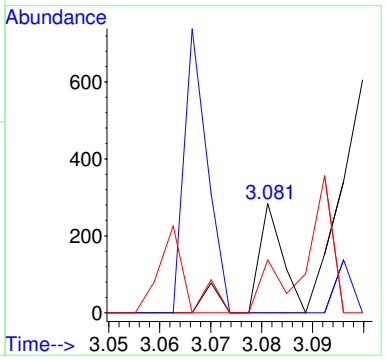


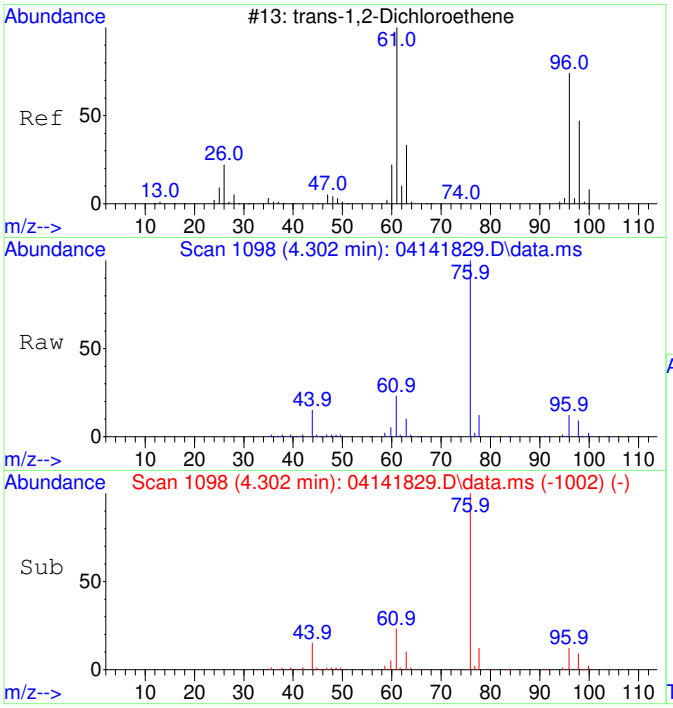


#26
1,1-Dichloroethene SCAN
Concen: 44.02 ug/L
RT: 3.081 min Scan# 806
Delta R.T. -0.011 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 106

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.6	81.6#
98	135.8	7.5	67.5#

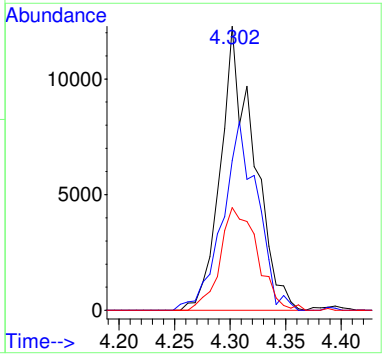


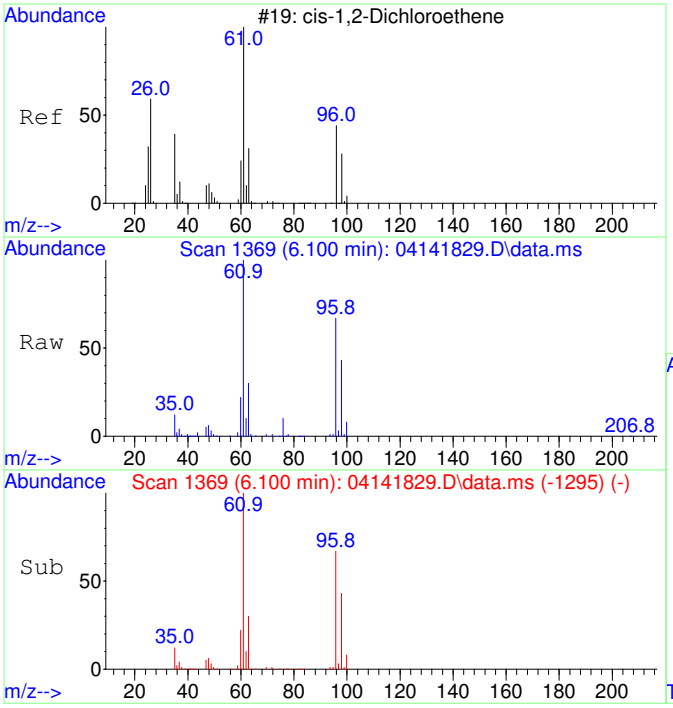


#27
trans-1,2-Dichloroethene SCAN
Concen: 10839.76 ug/L
RT: 4.302 min Scan# 1098
Delta R.T. -0.007 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 25577

Ion	Ratio	Lower	Upper
61	100		
96	69.9	51.8	111.8
98	40.6	22.7	82.7

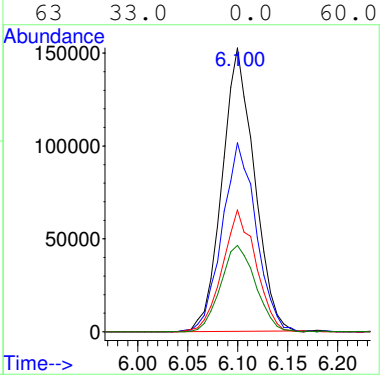


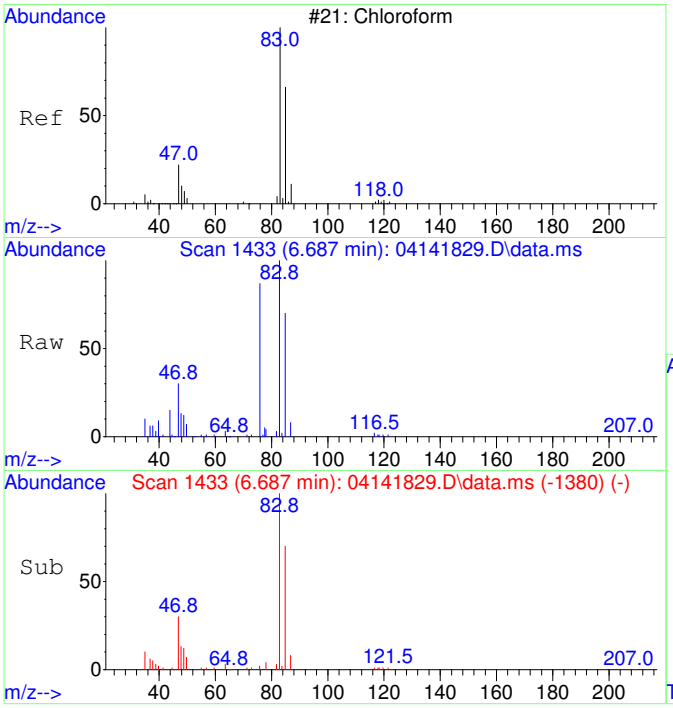


#29
cis-1,2-Dichloroethene SCAN
Concen: 120889.76 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.007 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 342608

Ion	Ratio	Lower	Upper
61	100		
96	70.3	49.4	109.4
98	44.6	9.5	69.5
63	33.0	0.0	60.0

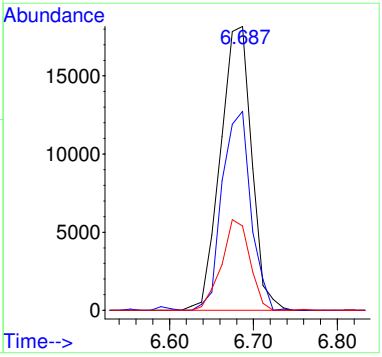


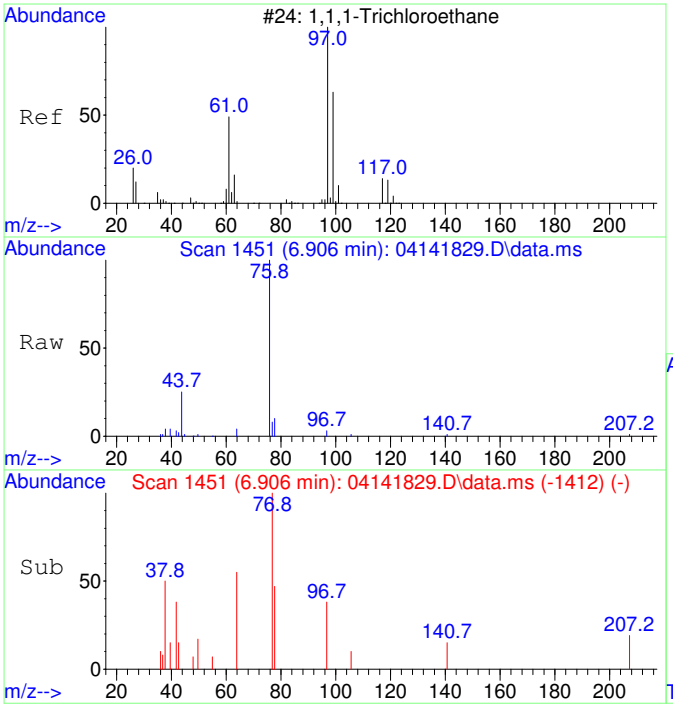


#30
Chloroform SCAN
Concen: 13725.71 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 83 Resp: 46934

Ion	Ratio	Lower	Upper
83	100		
85	64.6	47.8	107.8
47	29.0	8.2	68.2

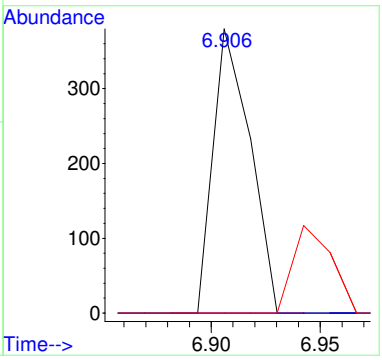


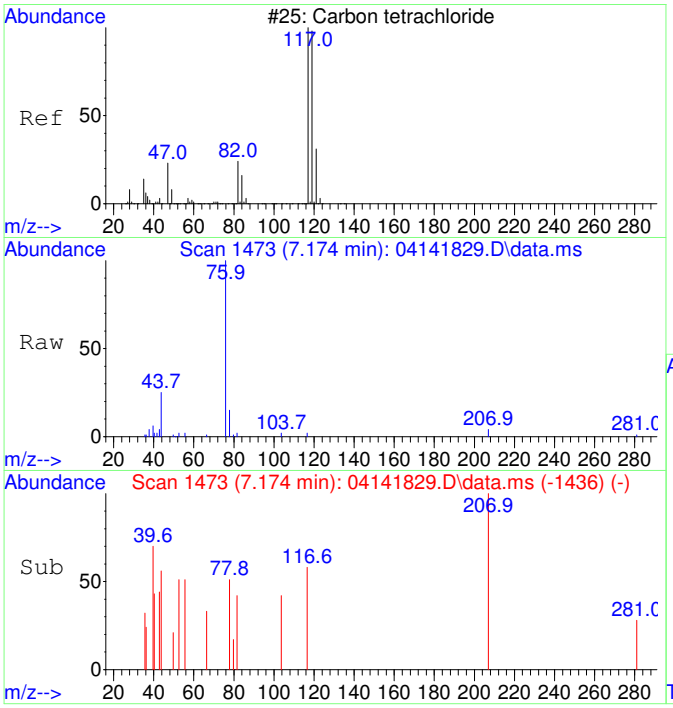


#31
1,1,1-Trichloroethane SCAN
Concen: 104.17 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.024 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 97 Resp: 447

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

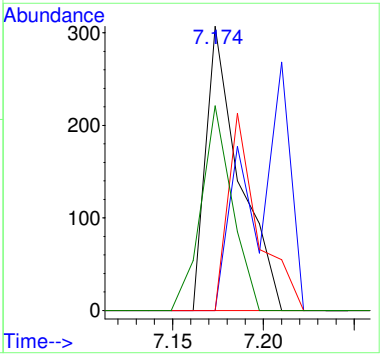


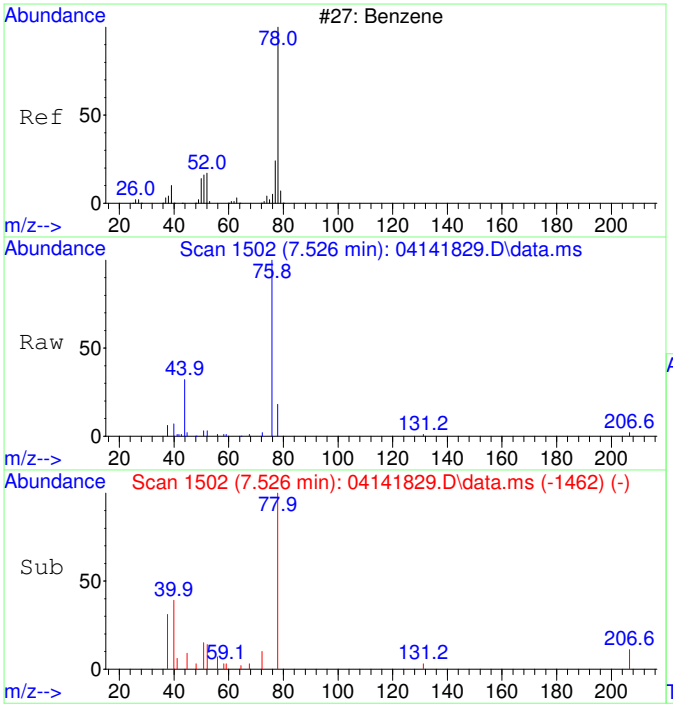


#32
Carbon tetrachloride SCAN
Concen: 127.98 ug/L
RT: 7.174 min Scan# 1473
Delta R.T. -0.049 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:117 Resp: 395

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	61.8	0.0	53.0#
82	66.6	7.9	67.9

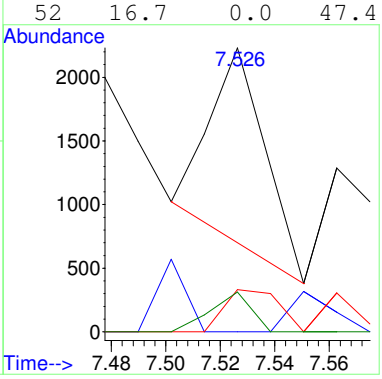


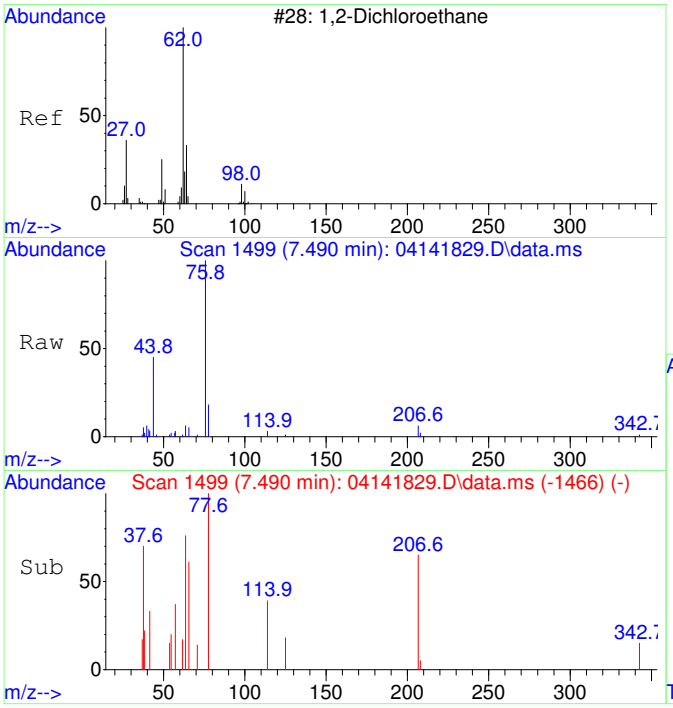


#33
Benzene SCAN
Concen: 207.69 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. -0.012 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 78 Resp: 1943

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	23.7	0.0	47.2
52	16.7	0.0	47.4

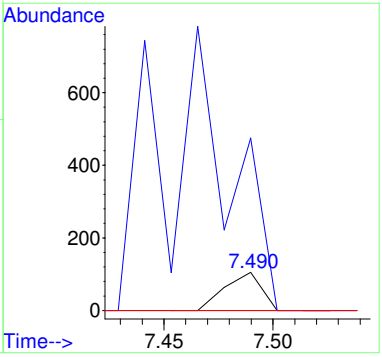


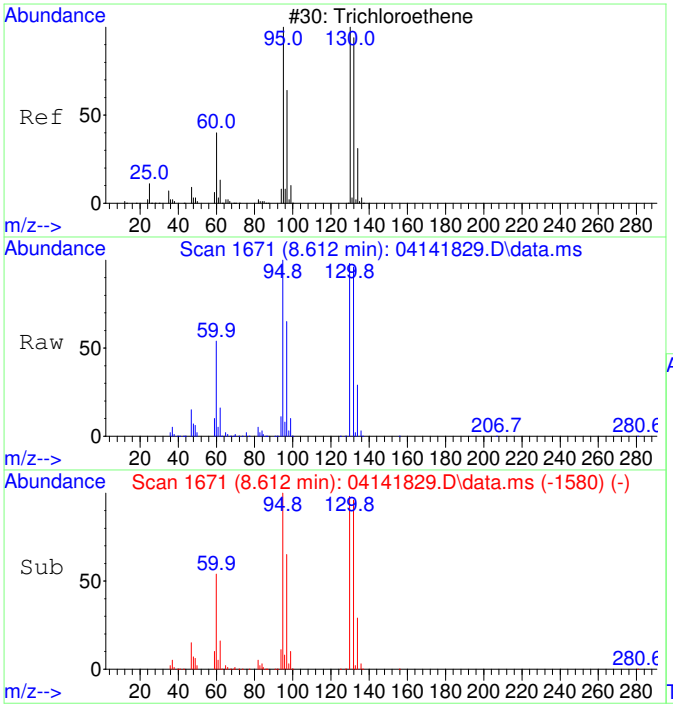


#34
1,2-Dichloroethane SCAN
Concen: 34.67 ug/L
RT: 7.490 min Scan# 1499
Delta R.T. -0.097 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 62 Resp: 123

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	0.0	1.2	61.2#

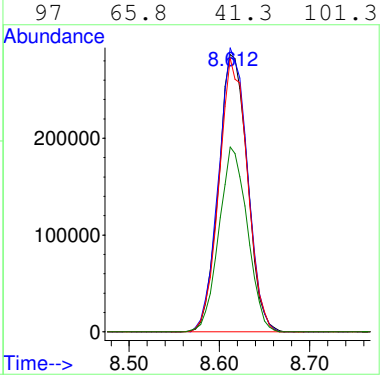


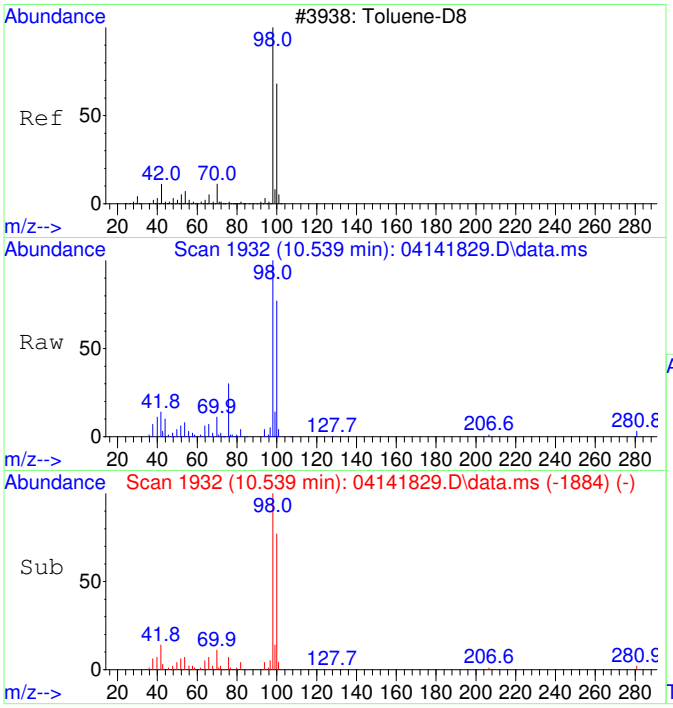


#35
Trichloroethene SCAN
Concen: 270159.60 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:130 Resp: 635015

Ion	Ratio	Lower	Upper
130	100		
95	102.5	71.3	131.3
132	97.2	75.1	135.1
97	65.8	41.3	101.3

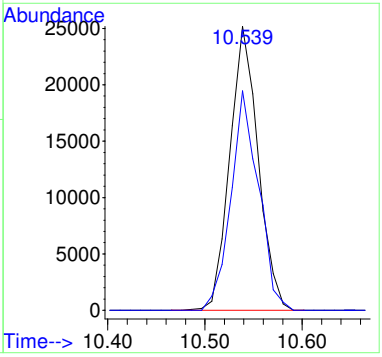


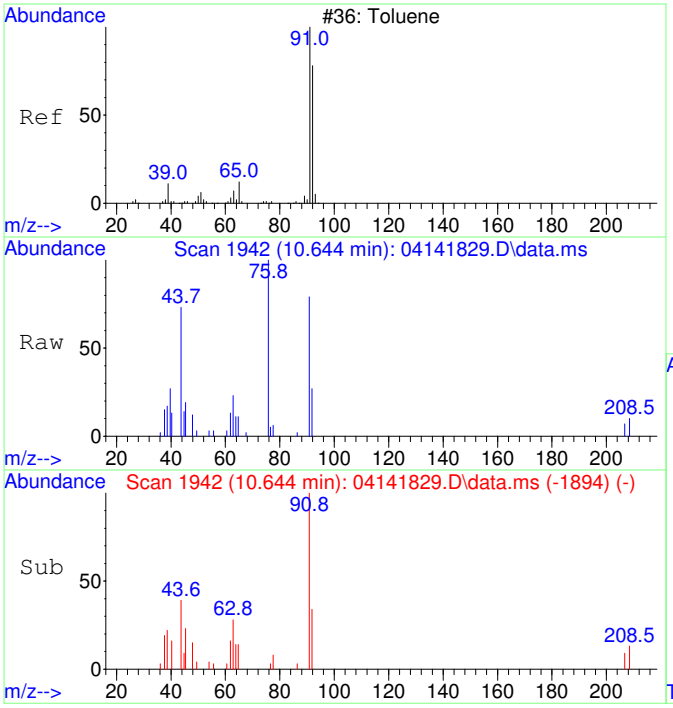


#36
Toluene-d8 SCAN
Concen: 5330.16 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 98 Resp: 50850

Ion	Ratio	Lower	Upper
98	100		
100	75.5	37.3	97.3

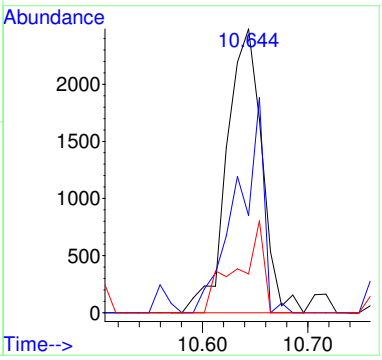


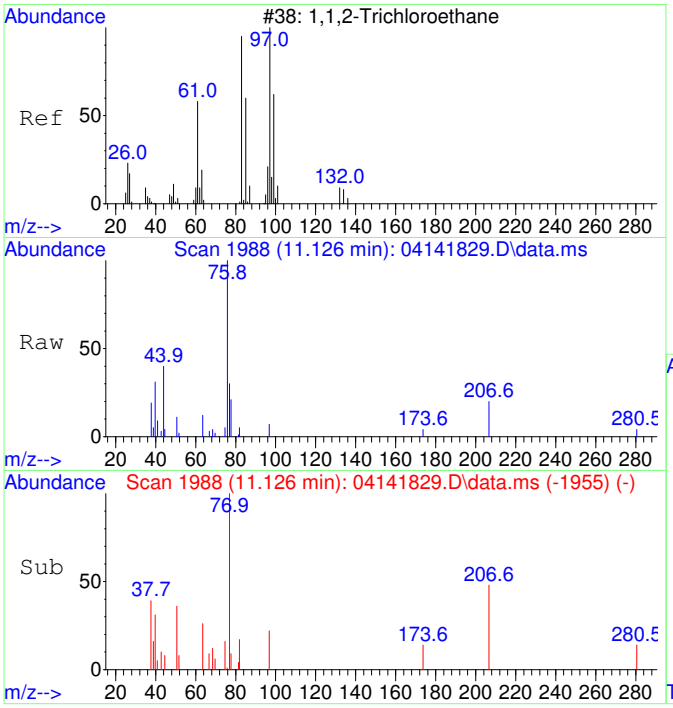


#37
Toluene SCAN
Concen: 540.42 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 5766

Ion	Ratio	Lower	Upper
91	100		
92	57.2	39.1	99.1
65	24.2	0.0	43.8

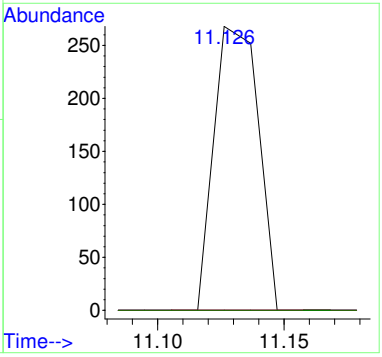


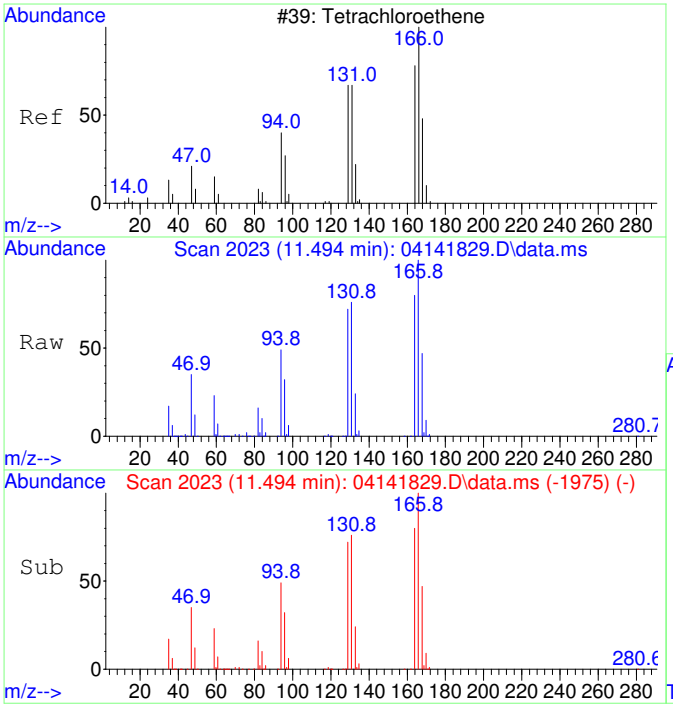


#38
1,1,2-Trichloroethane SCAN
Concen: 100.08 ug/L
RT: 11.126 min Scan# 1988
Delta R.T. -0.157 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 97 Resp: 327

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

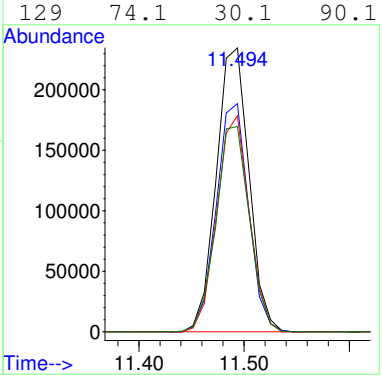


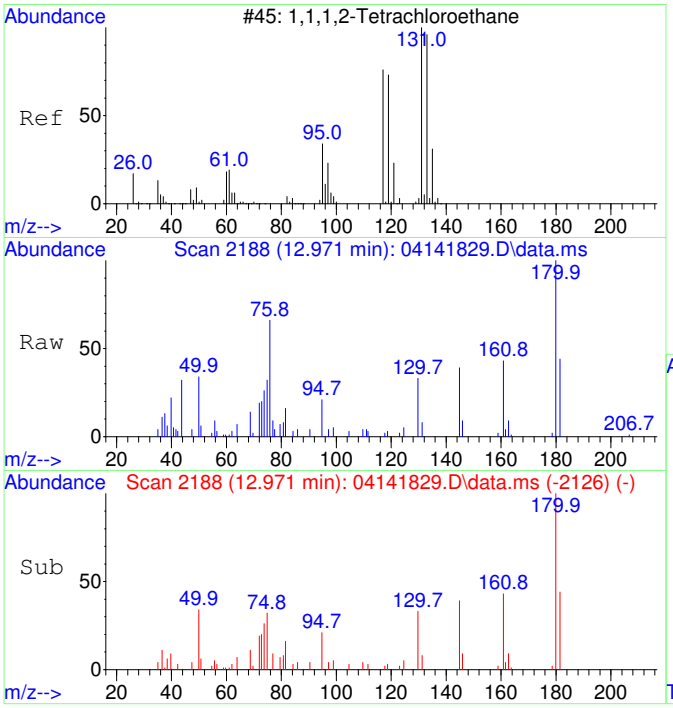


#39
Tetrachloroethene SCAN
Concen: 146129.08 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:166 Resp: 508456

Ion	Ratio	Lower	Upper
166	100		
164	79.0	49.8	109.8
131	74.9	42.0	102.0
129	74.1	30.1	90.1

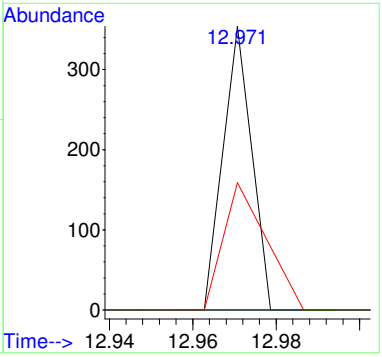


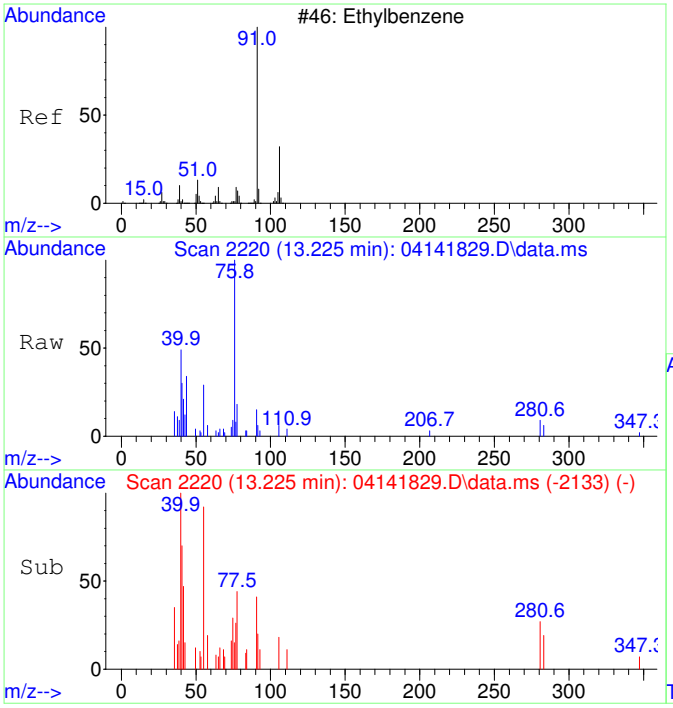


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 62.00 ug/L
RT: 12.971 min Scan# 2188
Delta R.T. -0.008 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:131 Resp: 169

Ion	Ratio	Lower	Upper
131	100		
133	0.0	78.7	138.7#
119	66.9	43.0	103.0
117	0.0	40.3	100.3#

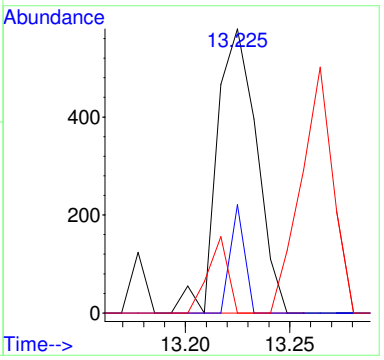


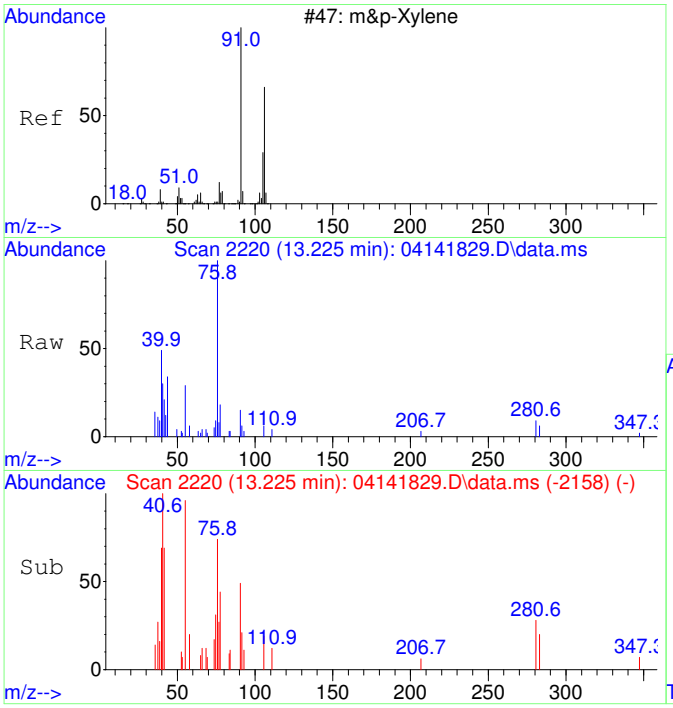


#42
Ethylbenzene SCAN
Concen: 54.77 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. 0.191 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 766

Ion	Ratio	Lower	Upper
91	100		
106	13.7	1.8	61.8
51	13.7	0.0	45.4

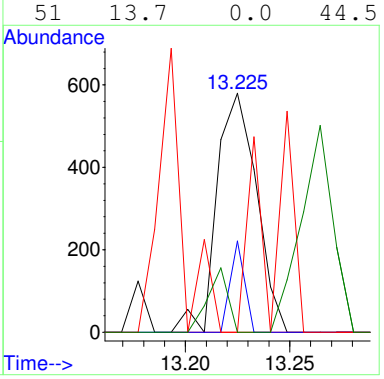


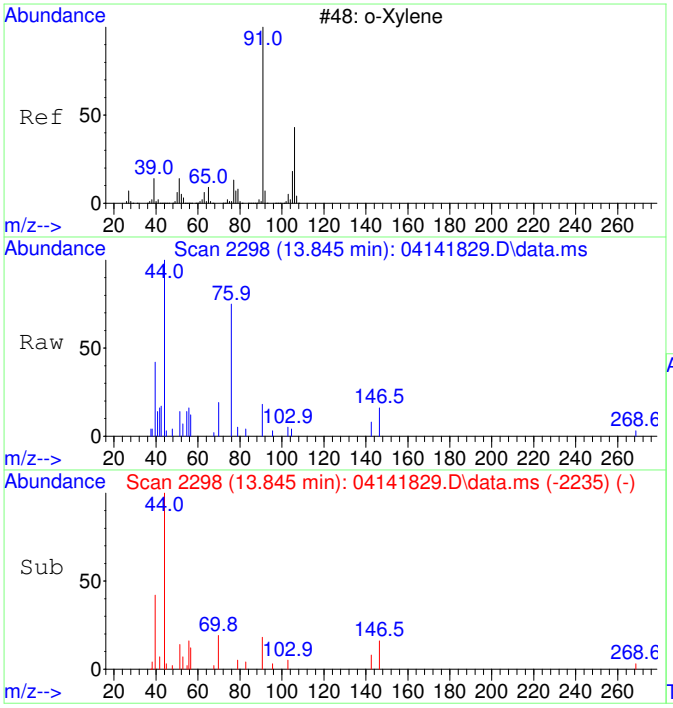


#43
m&p-Xylene SCAN
Concen: 33.66 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 766

Ion	Ratio	Lower	Upper
91	100		
106	13.7	14.6	74.6#
105	29.5	0.0	52.8
51	13.7	0.0	44.5

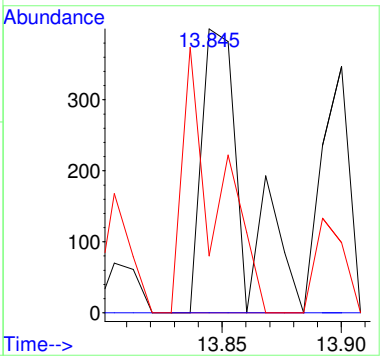


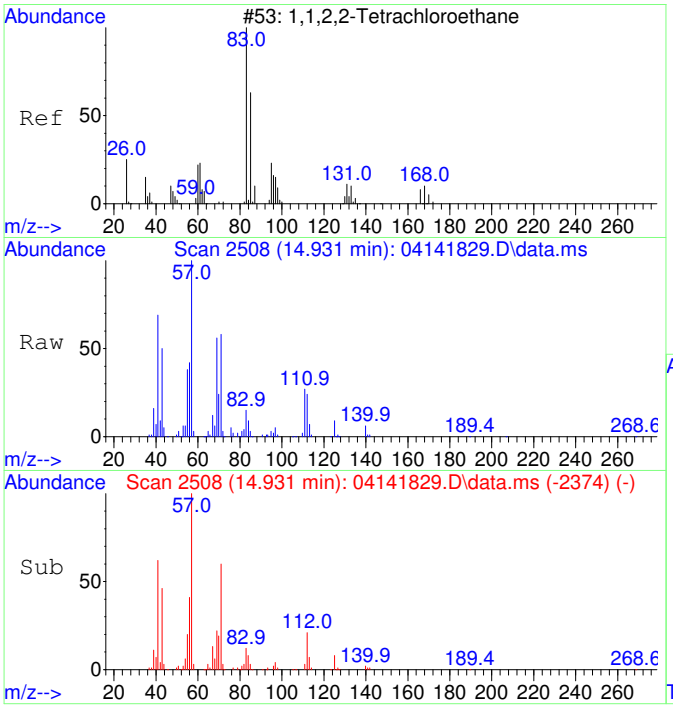


#44
o-Xylene SCAN
Concen: 40.98 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 505

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	74.5	0.0	54.9#

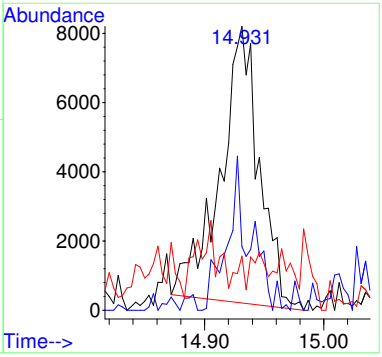


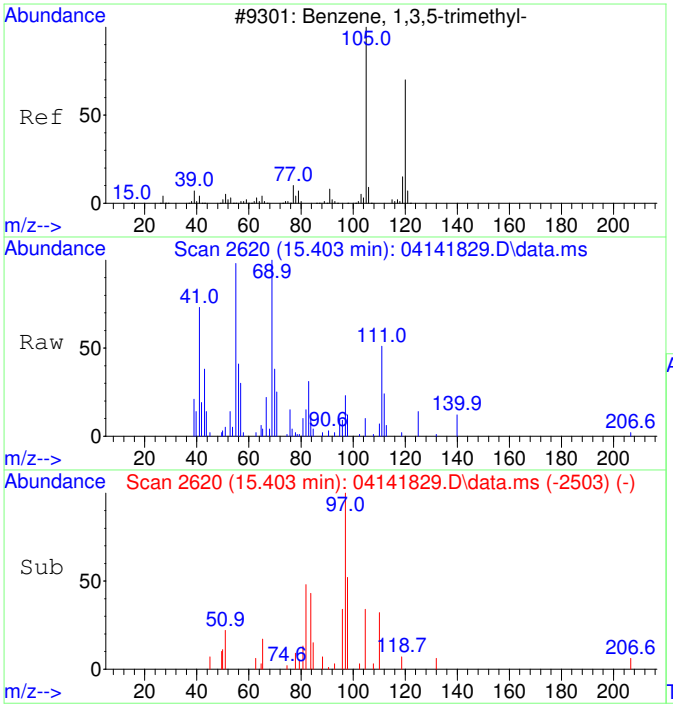


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 2796.86 ug/L
RT: 14.931 min Scan# 2508
Delta R.T. -0.004 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 83 Resp: 18042

Ion	Ratio	Lower	Upper
83	100		
85	31.7	32.4	92.4#
95	4.1	0.0	41.2

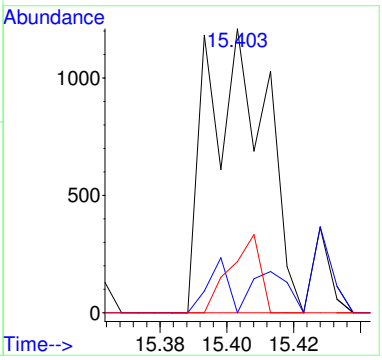


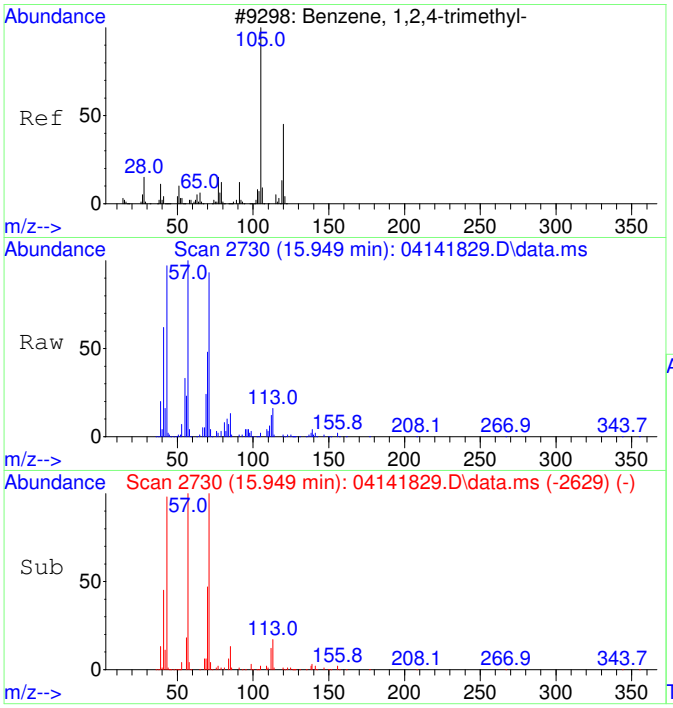


#46
1,3,5-Trimethylbenzene SCAN
Concen: 103.28 ug/L
RT: 15.403 min Scan# 2620
Delta R.T. -0.009 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:105 Resp: 1463

Ion	Ratio	Lower	Upper
105	100		
120	6.7	16.1	76.1#
119	0.0	0.0	41.8

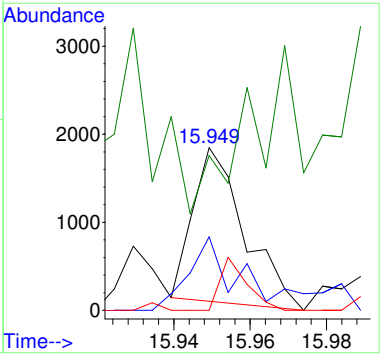


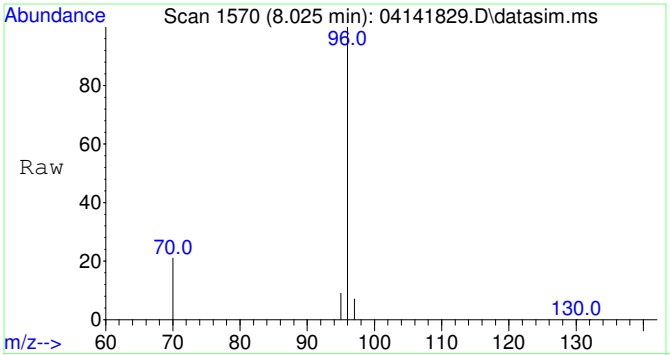


#47
1,2,4-Trimethylbenzene SCAN
Concen: 114.30 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. 0.001 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:105 Resp: 1632

Ion	Ratio	Lower	Upper
105	100		
120	58.6	12.8	72.8
119	18.1	0.0	42.5
77	27.8	0.0	42.2

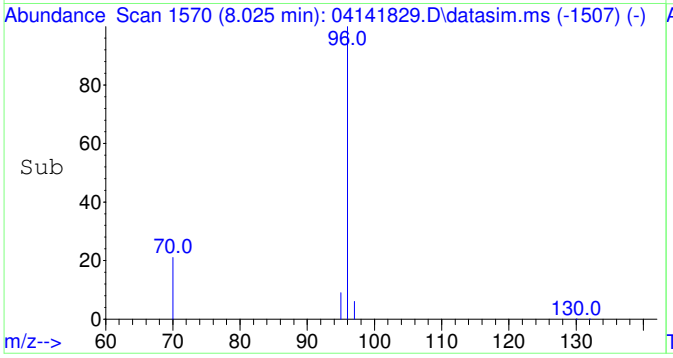


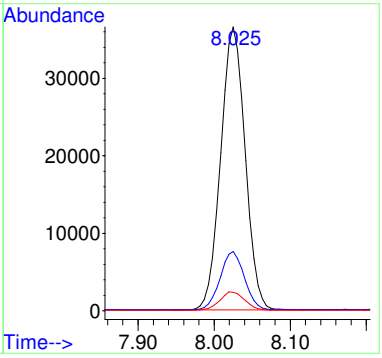


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 96 Resp: 81201

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.6	0.0	36.7





Quantitation Report (QT Reviewed)

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M.I. Performed By:

RH at 9:59 am, Apr 16, 2018

M.I. Approved By:

ZR at 3:16 pm, Apr 16, 2018

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141829.D
Acq On : 14 Apr 2018 21:57
InstName : AG5975C
Operator : RH
Sample : 1804005-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 16 09:40:10 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

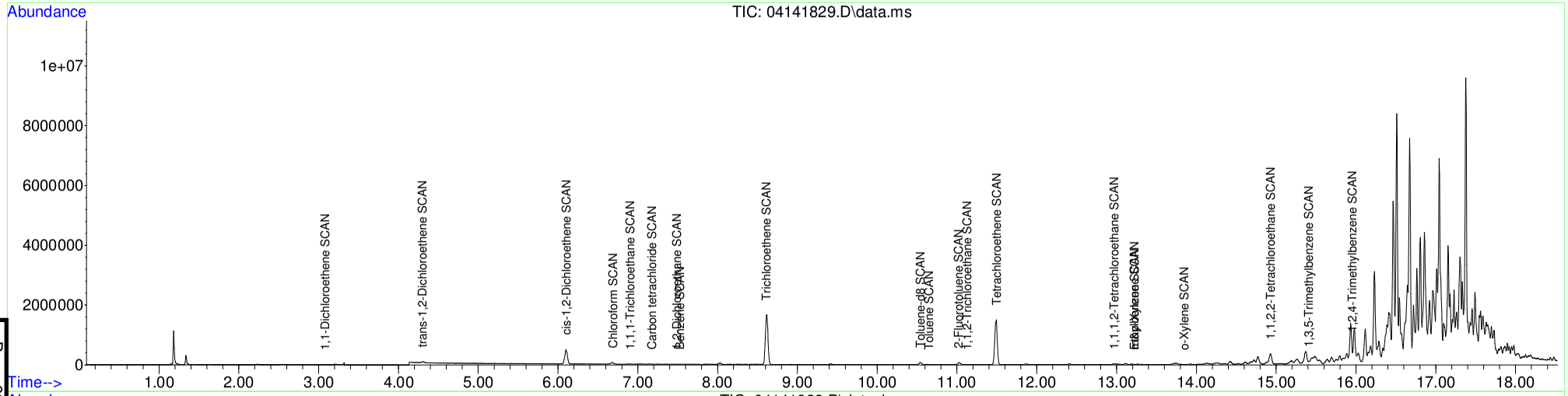
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	112450	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	81201	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	95414	5055.20 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.10%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	1294m	262.15 ug/L	
3] trans-1,2-Dichloroethene	4.303	61	42516	8429.63 ug/L	100
4] 1,1-Dichloroethane	5.066	63	248	36.93 ug/L	95
5] cis-1,2-Dichloroethene	6.101	61	575947	92702.57 ug/L	99 oc
6] Chloroform	6.676	83	76151	10422.03 ug/L	100
7] 1,1,1-Trichloroethane	6.932	97	408	57.19 ug/L	93
8] Carbon tetrachloride	7.211	117	1019	156.55 ug/L	99
9] Benzene	7.540	78	1590	88.27 ug/L	74
10] 1,2-Dichloroethane	7.588	62	139	22.13 ug/L #	1
11] Trichloroethene	8.613	130	1176168	236984.91 ug/L	99 oc
13] Toluene	10.634	91	9789	412.06 ug/L	99
14] 1,1,2-Trichloroethane	11.212	97	118	22.48 ug/L #	53
15] Tetrachloroethene	11.484	166	1033225	158681.74 ug/L	98 oc
17] 1,1,1,2-Tetrachloroethane	12.964	131	463	83.08 ug/L #	55
19] m&p-Xylene	13.226	91	1406	66.63 ug/L	95
20] o-Xylene	13.846	91	694	31.21 ug/L	87
21] 1,1,2,2-Tetrachloroethane	14.932	83	32680	3166.51 ug/L #	55
22] 1,3,5-Trimethylbenzene	15.409	105	2330	89.53 ug/L	90
23] 1,2,4-Trimethylbenzene	15.951	105	5599	211.50 ug/L	91
25) 2-Fluorotoluene SCAN	11.021	109	56672	5215.72 ug/L	95
26) 1,1-Dichloroethene SCAN	3.081	61	106	44.02 ug/L #	1
27) trans-1,2-Dichloroethe...	4.302	61	25577	10839.76 ug/L	85
29) cis-1,2-Dichloroethene...	6.100	61	342608	120889.76 ug/L	91
30) Chloroform SCAN	6.687	83	46934	13725.71 ug/L	85
31) 1,1,1-Trichloroethane ...	6.906	97	447	104.17 ug/L #	29
32) Carbon tetrachloride SCAN	7.174	117	395	127.98 ug/L #	21
33) Benzene SCAN	7.526	78	1943	207.69 ug/L #	65
34) 1,2-Dichloroethane SCAN	7.490	62	123	34.67 ug/L #	42
35) Trichloroethene SCAN	8.612	130	635015	270159.60 ug/L	95
36) Toluene-d8 SCAN	10.539	98	50850	5330.16 ug/L	90
37) Toluene SCAN	10.644	91	5766	540.42 ug/L	84
38) 1,1,2-Trichloroethane ...	11.126	97	327	100.08 ug/L #	17
39) Tetrachloroethene SCAN	11.494	166	508456	146129.08 ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.971	131	169	62.00 ug/L #	29
42) Ethylbenzene SCAN	13.225	91	766	54.77 ug/L	77
43) m&p-Xylene SCAN	13.225	91	766	33.66 ug/L #	70
44) o-Xylene SCAN	13.845	91	505	40.98 ug/L #	19
45) 1,1,2,2-Tetrachloroeth...	14.931	83	18042	2796.86 ug/L #	63
46) 1,3,5-Trimethylbenzene...	15.403	105	1463	103.28 ug/L #	46
47) 1,2,4-Trimethylbenzene...	15.949	105	1632	114.30 ug/L	74

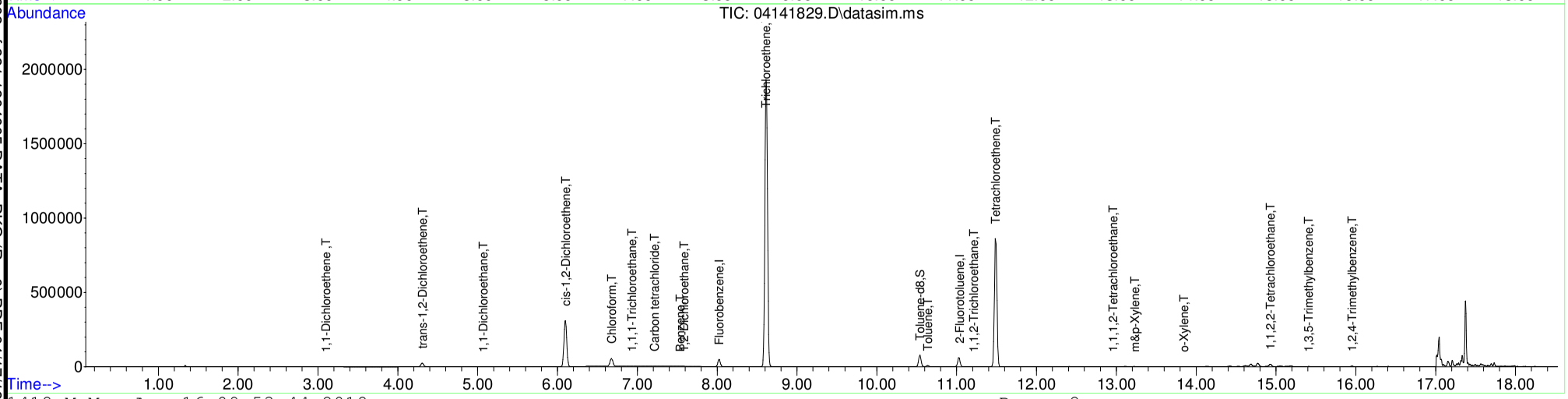
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141829.D
Acq On : 14 Apr 2018 21:57
InstName : AG5975C
Operator : RH
Sample : 1804005-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 16 09:40:10 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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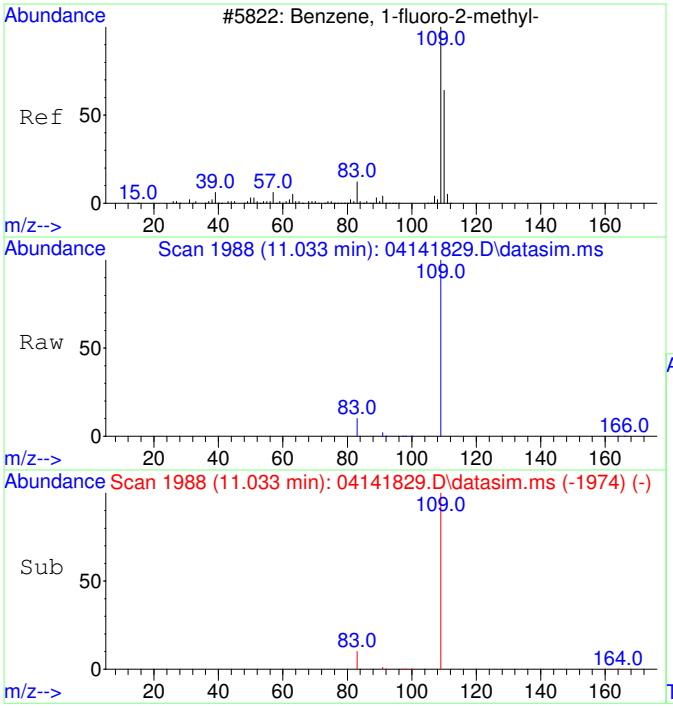
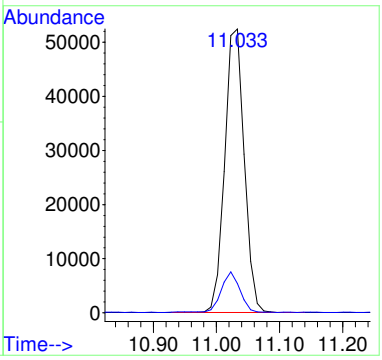
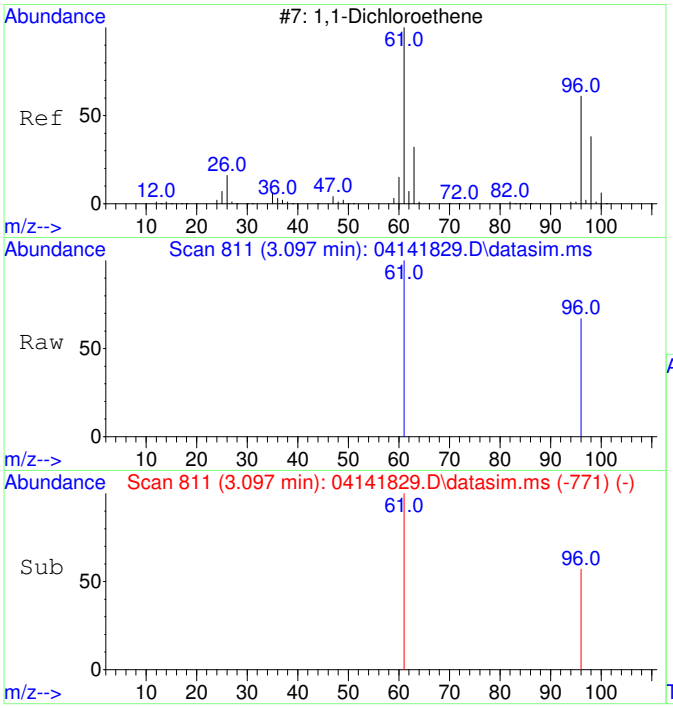


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:109 Resp: 112450

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

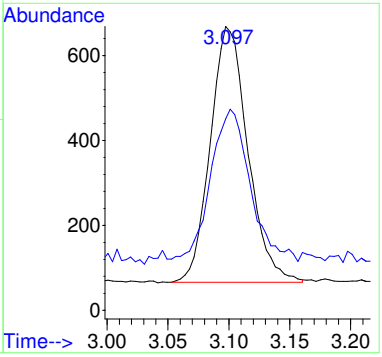


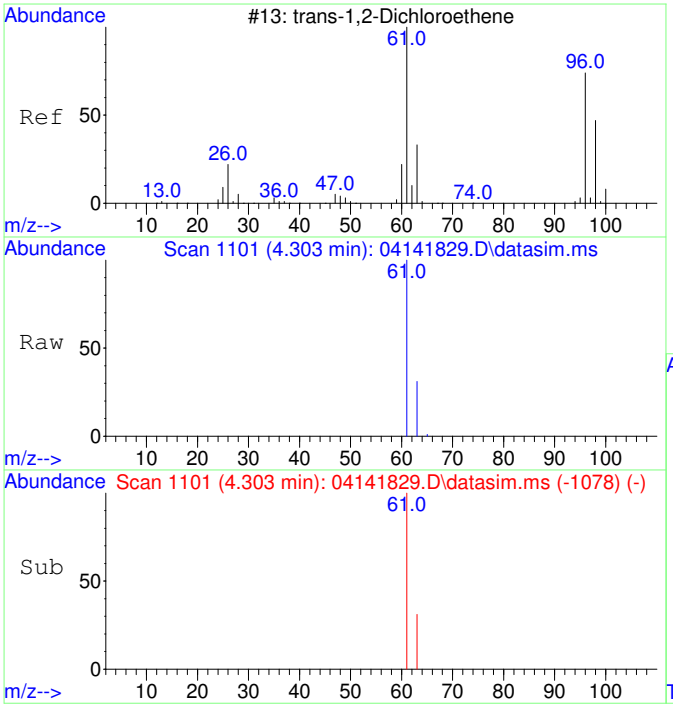


#2
1,1-Dichloroethene
Concen: 262.15 ug/L m
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 1294

Ion	Ratio	Lower	Upper
61	100		
96	86.6	26.1	86.1#

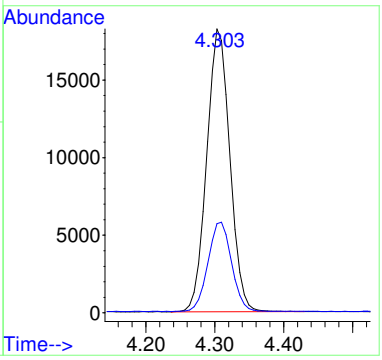


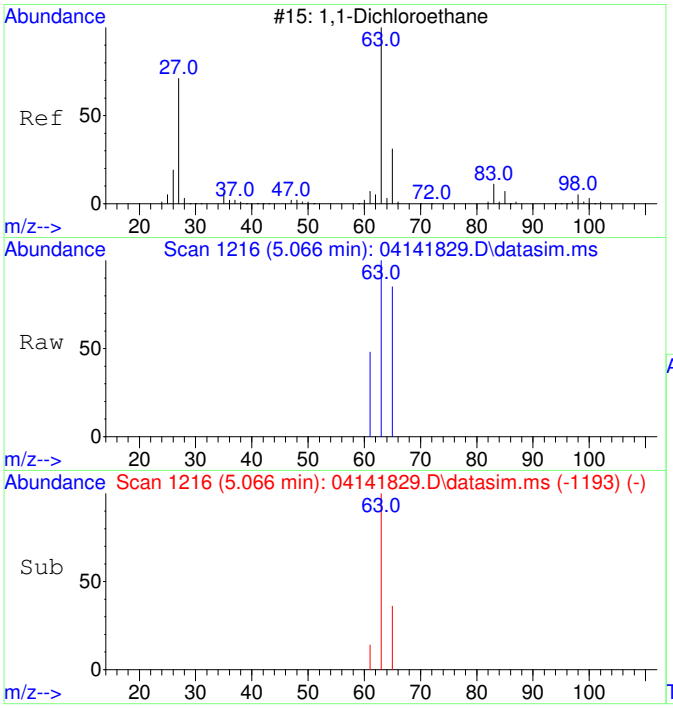


#3
trans-1,2-Dichloroethene
Concen: 8429.63 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 42516

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.0	62.0

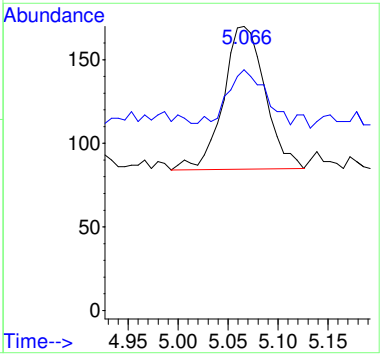


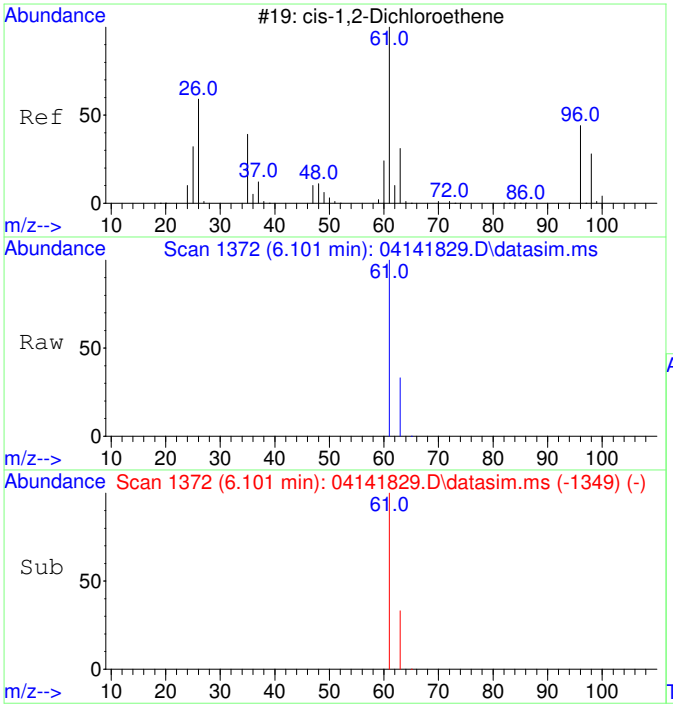


#4
1,1-Dichloroethane
Concen: 36.93 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 63 Resp: 248

Ion	Ratio	Lower	Upper
63	100		
65	34.7	1.8	61.8

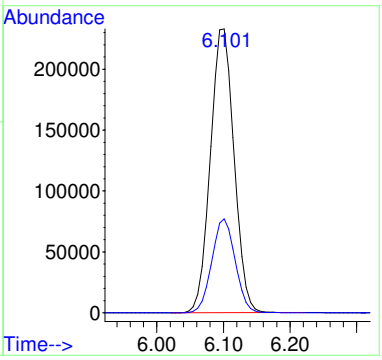


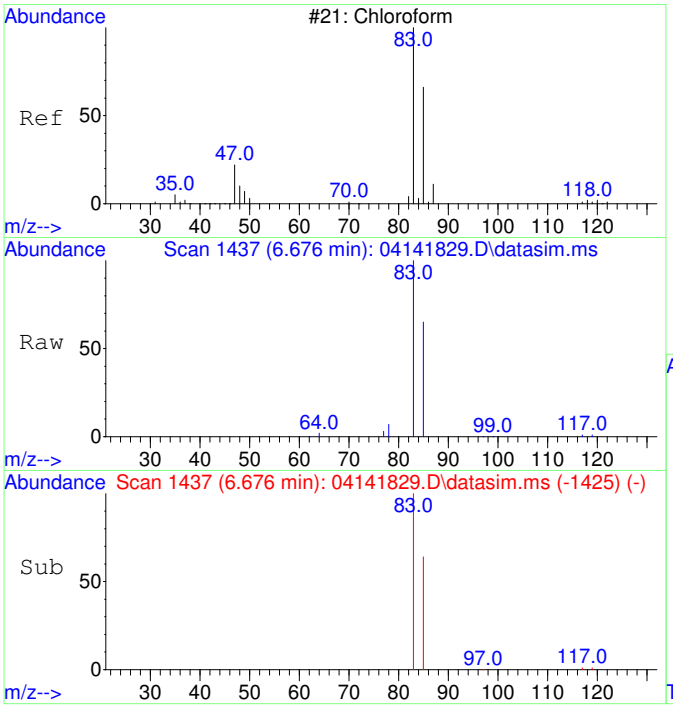


#5
cis-1,2-Dichloroethene
Concen: 92702.57 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 575947

Ion	Ratio	Lower	Upper
61	100		
63	32.5	2.0	62.0

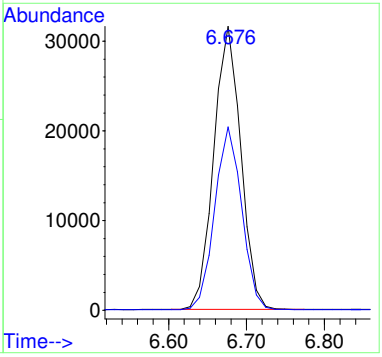


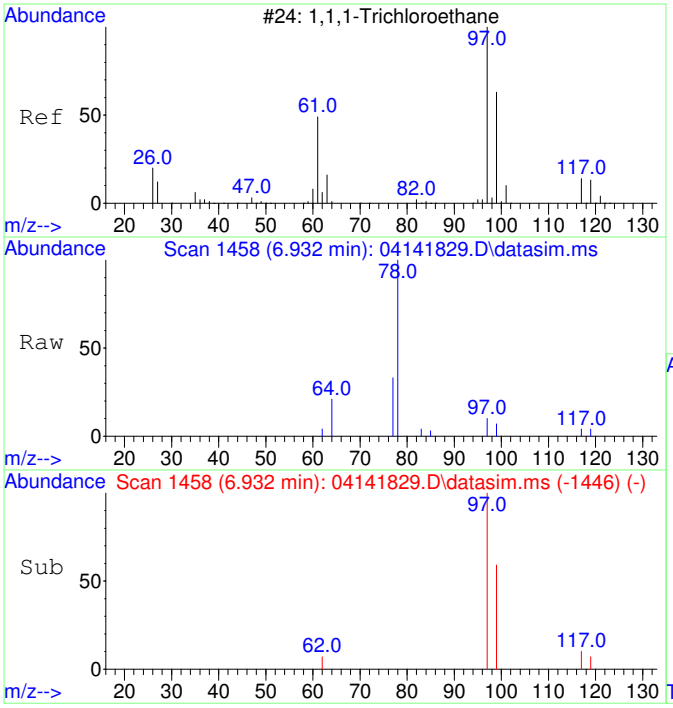


#6
Chloroform
Concen: 10422.03 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 83 Resp: 76151

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.2	94.2

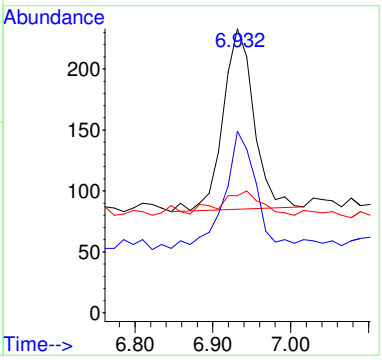


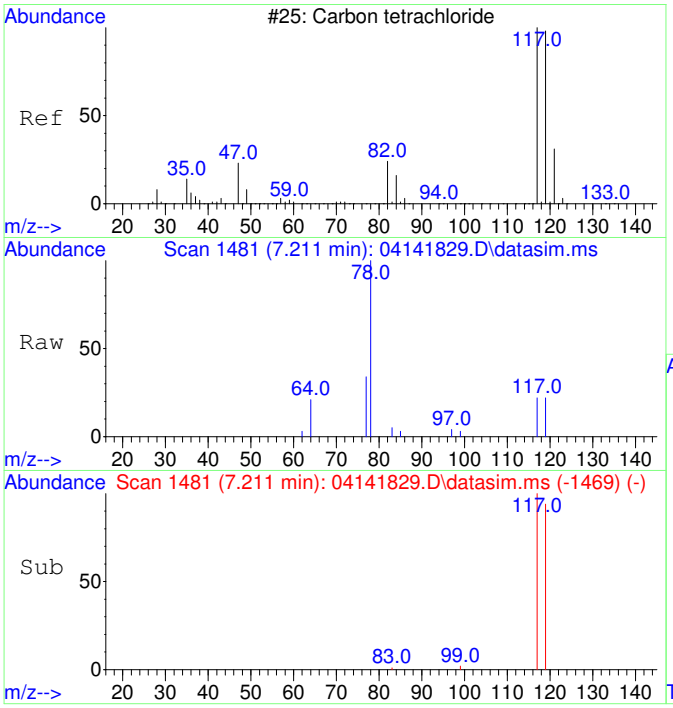


#7
1,1,1-Trichloroethane
Concen: 57.19 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 97 Resp: 408

Ion	Ratio	Lower	Upper
97	100		
99	69.4	34.5	94.5
117	17.9	0.0	42.6

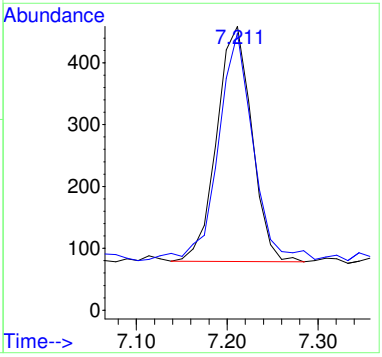


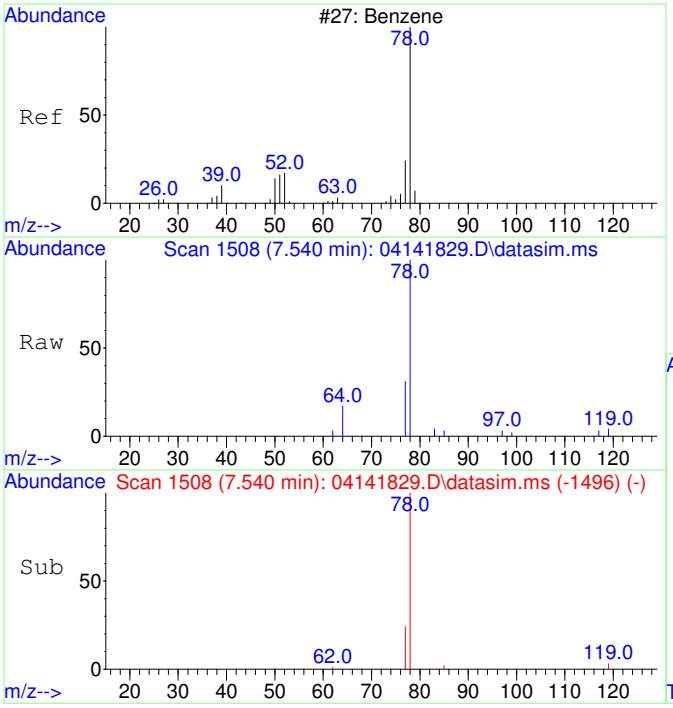


#8
Carbon tetrachloride
Concen: 156.55 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:117 Resp: 1019

Ion	Ratio	Lower	Upper
117	100		
119	95.5	64.5	124.5

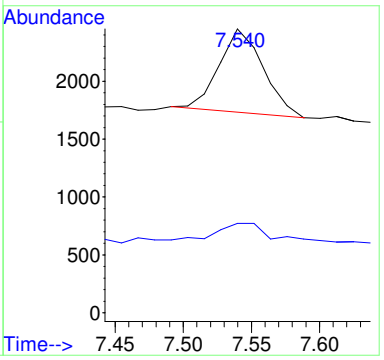


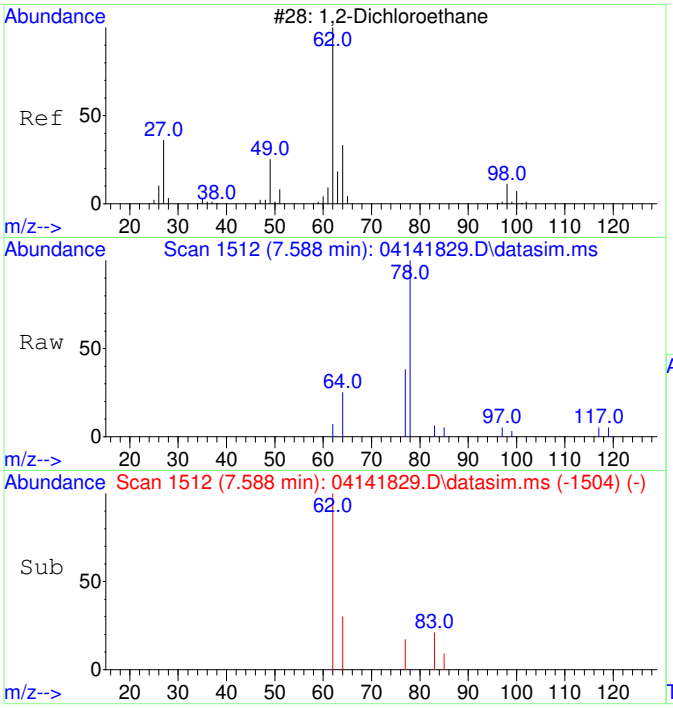


#9
Benzene
Concen: 88.27 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 78 Resp: 1590

Ion	Ratio	Lower	Upper
78	100		
77	36.2	0.0	53.6

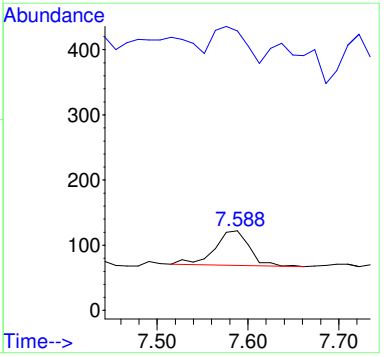


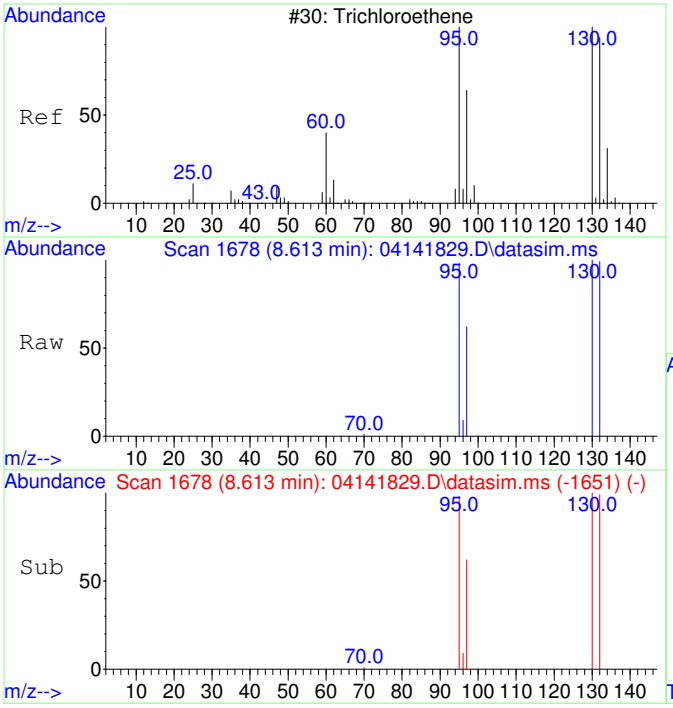


#10
1,2-Dichloroethane
Concen: 22.13 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 62 Resp: 139

Ion	Ratio	Lower	Upper
62	100		
64	104.3	1.8	61.8#

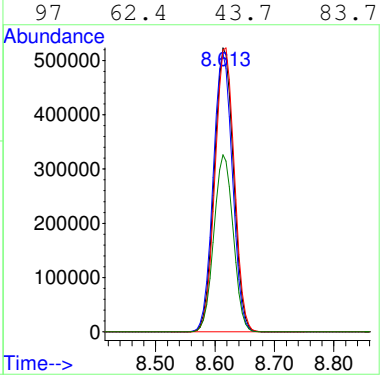


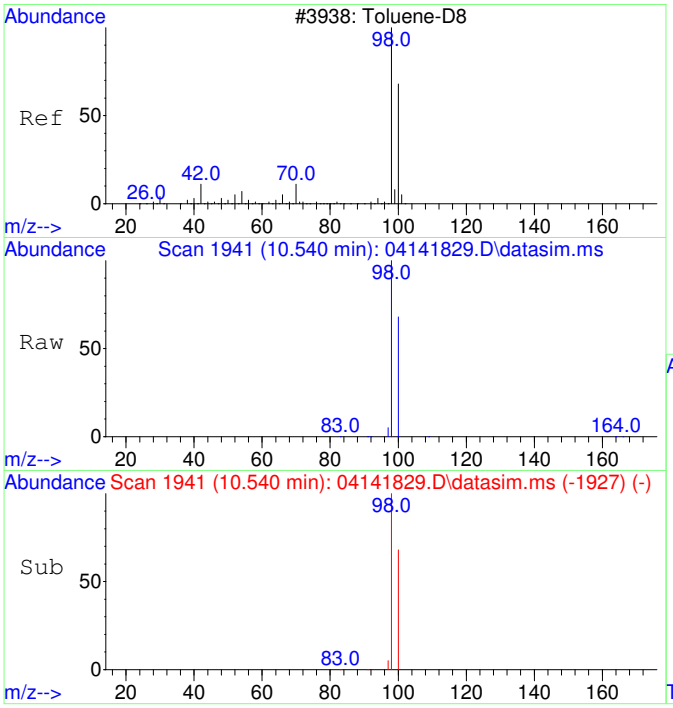


#11
Trichloroethene
Concen: 236984.91 ug/L
RT: 8.613 min Scan# 1678
Delta R.T. -0.005 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:130 Resp: 1176168

Ion	Ratio	Lower	Upper
130	100		
95	98.0	68.8	128.8
132	100.2	78.6	118.6
97	62.4	43.7	83.7

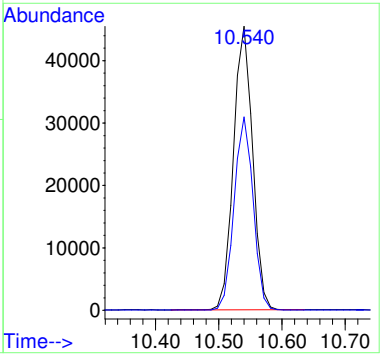


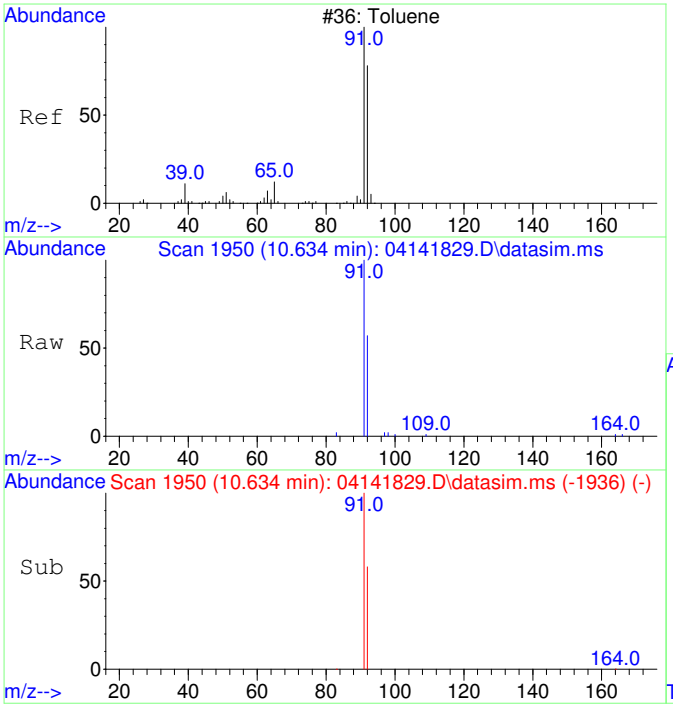


#12
Toluene-d8
Concen: 5055.20 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 98 Resp: 95414

Ion	Ratio	Lower	Upper
98	100		
100	67.6	36.9	96.9

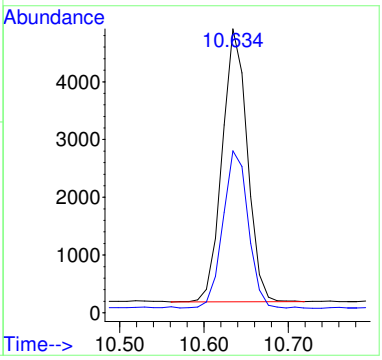


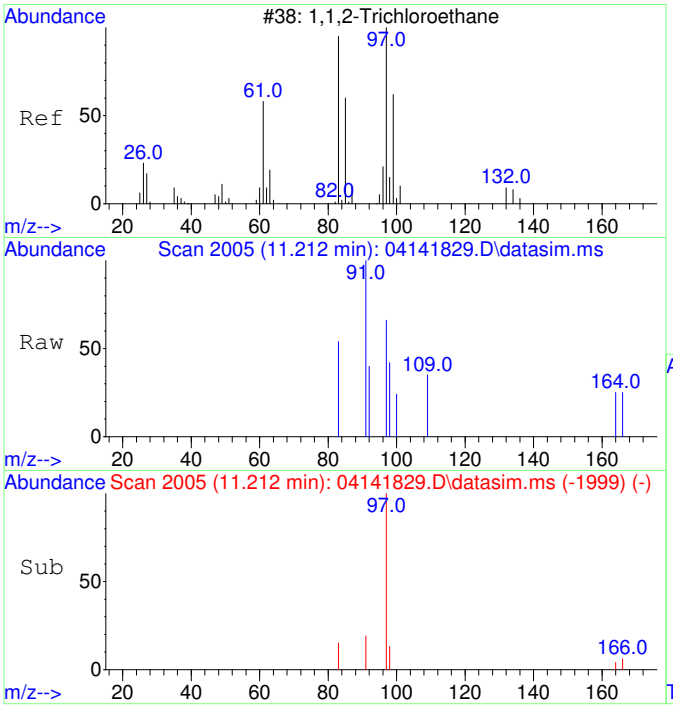


#13
Toluene
Concen: 412.06 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 9789

Ion	Ratio	Lower	Upper
91	100		
92	58.2	28.8	88.8

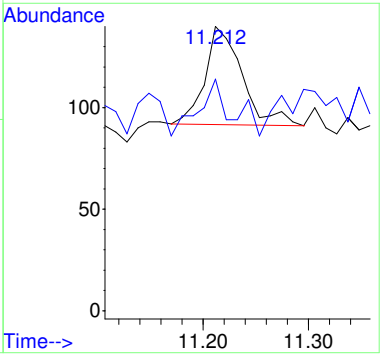


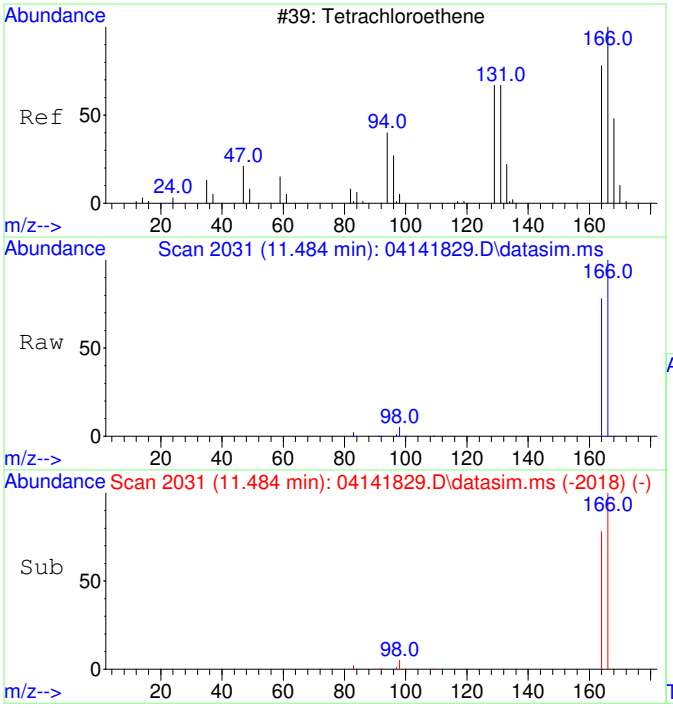


#14
1,1,2-Trichloroethane
Concen: 22.48 ug/L
RT: 11.212 min Scan# 2005
Delta R.T. -0.084 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 97 Resp: 118

Ion	Ratio	Lower	Upper
97	100		
83	41.5	54.3	114.3#

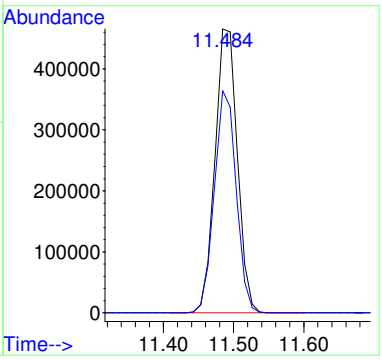


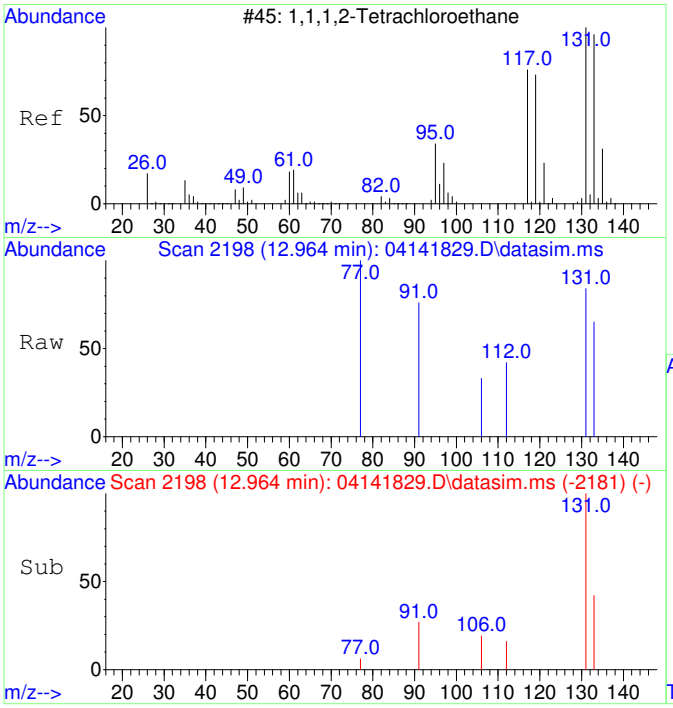


#15
Tetrachloroethene
Concen: 158681.74 ug/L
RT: 11.484 min Scan# 2031
Delta R.T. -0.010 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:166 Resp: 1033225

Ion	Ratio	Lower	Upper
166	100		
164	76.5	48.0	108.0

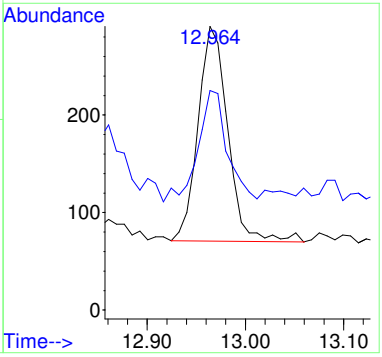


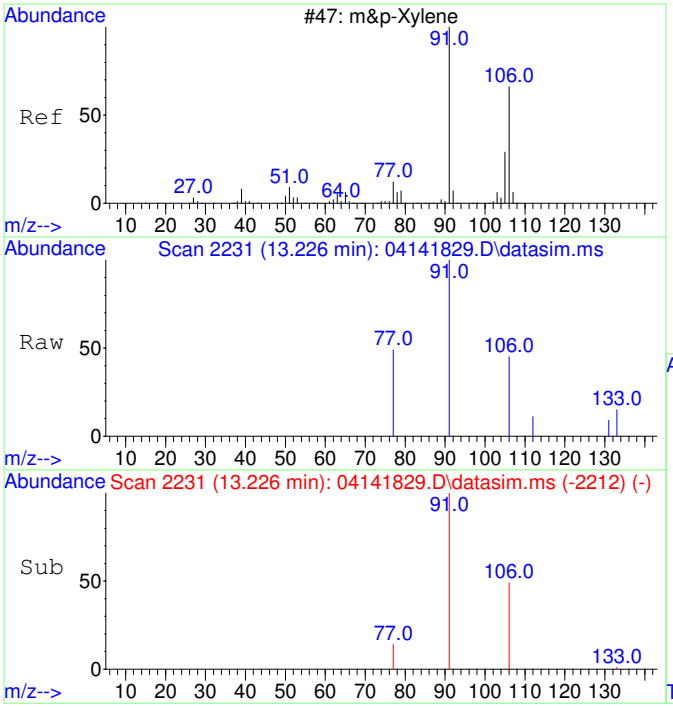


#17
1,1,1,2-Tetrachloroethane
Concen: 83.08 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. -0.016 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:131 Resp: 463

Ion	Ratio	Lower	Upper
131	100		
133	51.0	65.1	125.1#

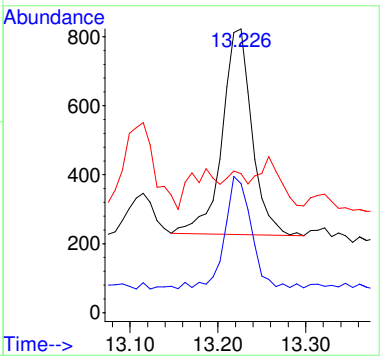


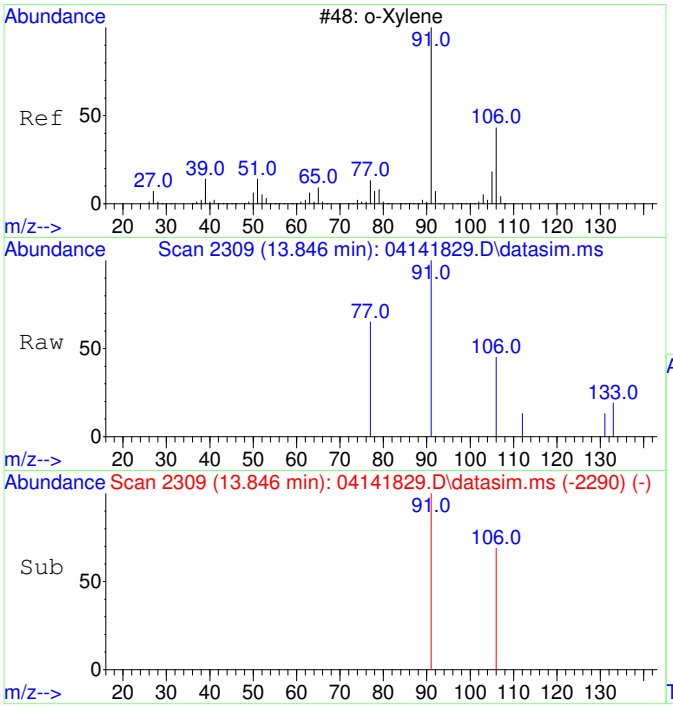


#19
m&p-Xylene
Concen: 66.63 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 1406

Ion	Ratio	Lower	Upper
91	100		
106	46.2	20.0	80.0
77	12.7	0.0	43.4

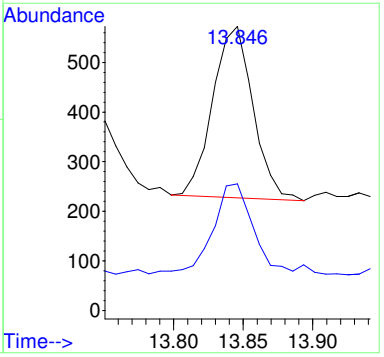


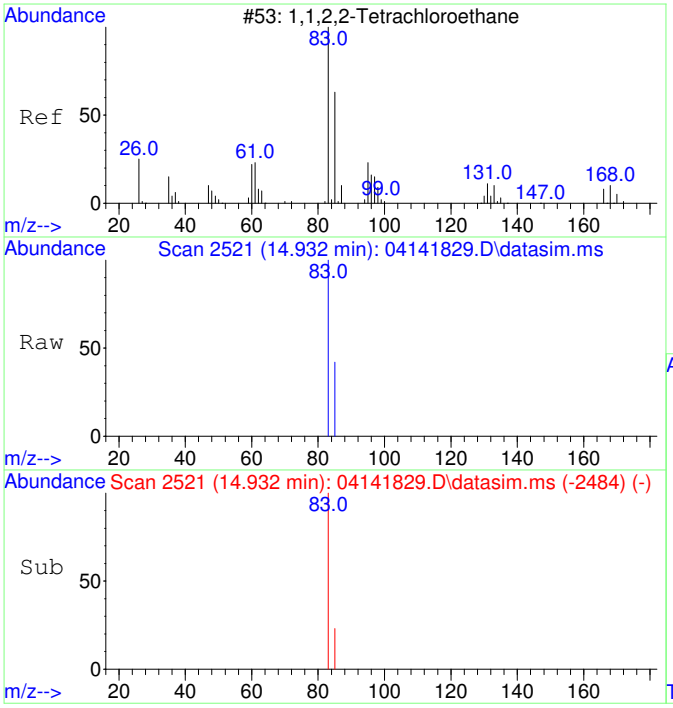


#20
o-Xylene
Concen: 31.21 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 694

Ion	Ratio	Lower	Upper
91	100		
106	55.6	16.9	76.9

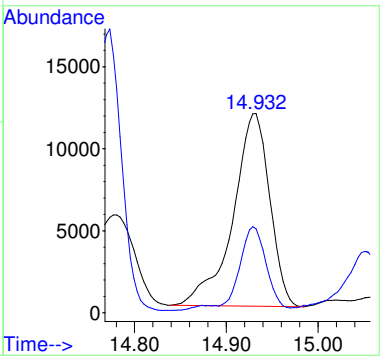


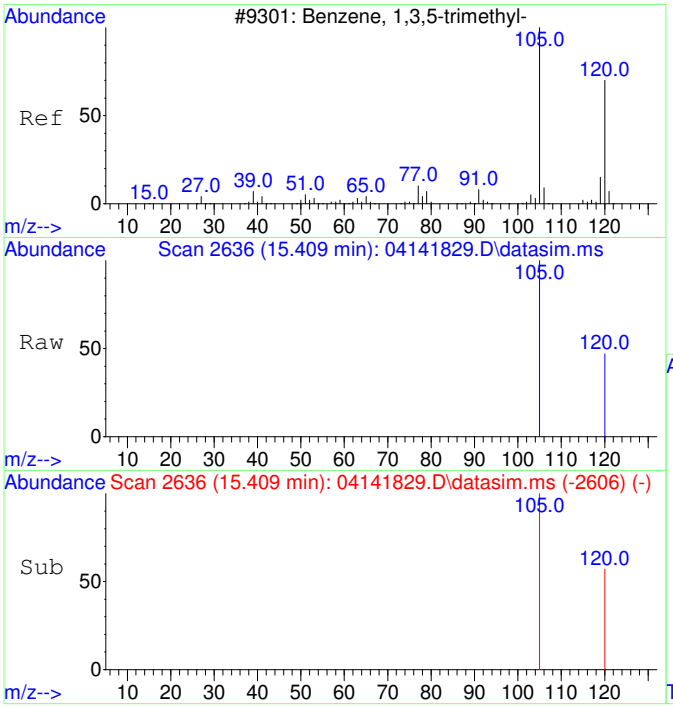


#21
1,1,2,2-Tetrachloroethane
Concen: 3166.51 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.011 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 83 Resp: 32680

Ion	Ratio	Lower	Upper
83	100		
85	29.0	34.3	94.3#

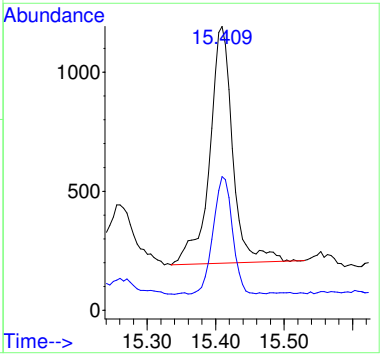


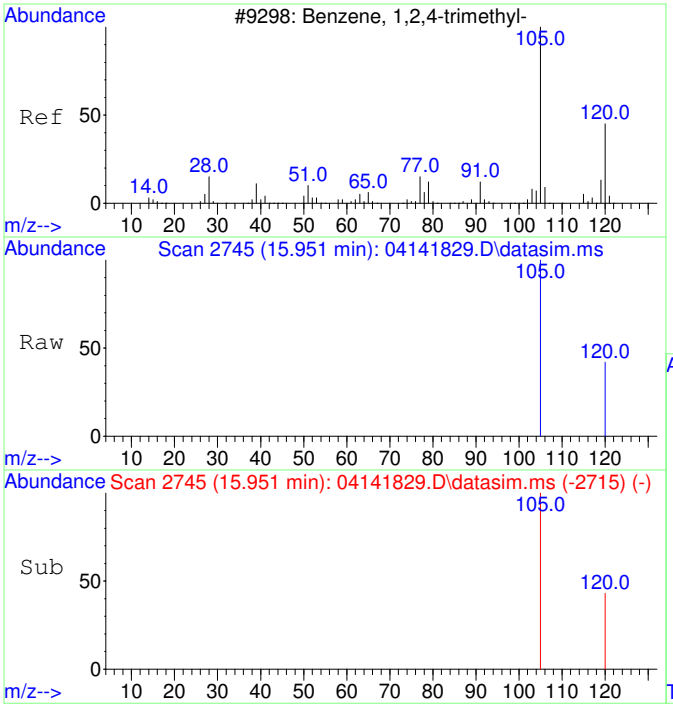


#22
1,3,5-Trimethylbenzene
Concen: 89.53 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:105 Resp: 2330

Ion	Ratio	Lower	Upper
105	100		
120	41.1	18.1	78.1

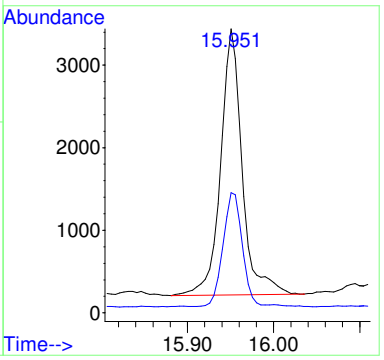


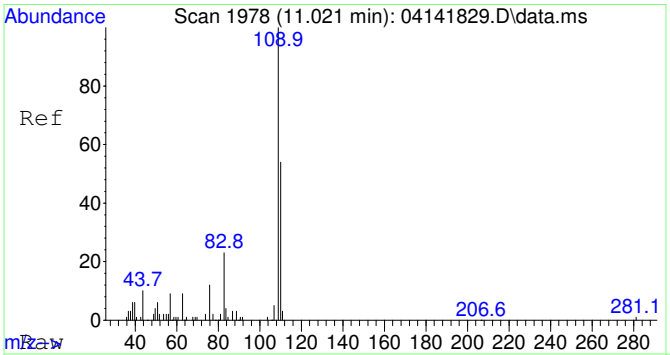


#23
1,2,4-Trimethylbenzene
Concen: 211.50 ug/L
RT: 15.951 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:105 Resp: 5599

Ion	Ratio	Lower	Upper
105	100		
120	38.6	14.5	74.5

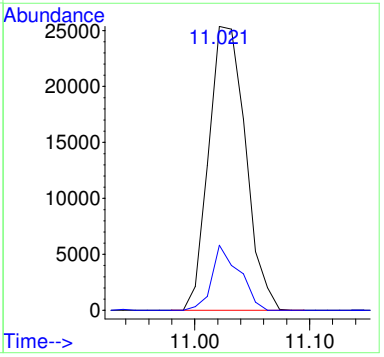


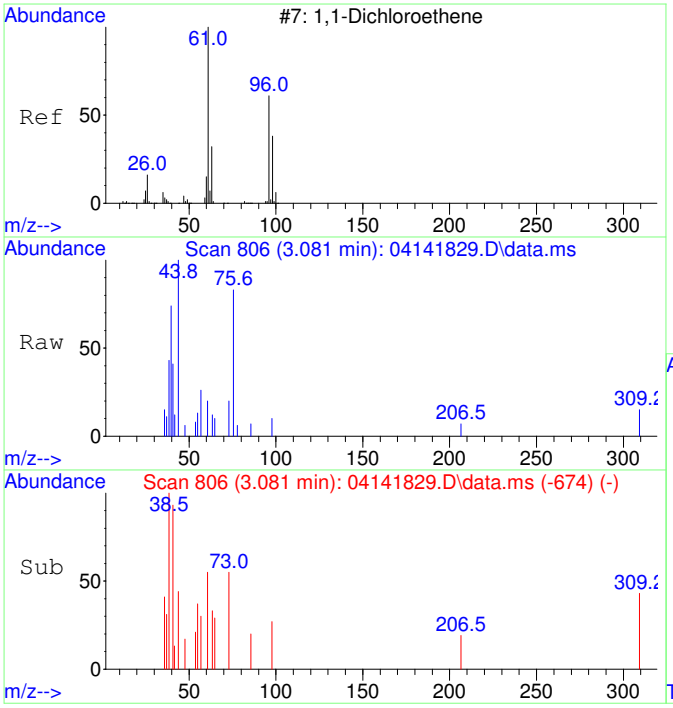


#25
2-Fluorotoluene SCAN
Concen: 5215.72 ug/L
RT: 11.021 min Scan# 1978
Delta R.T. -0.010 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:109 Resp: 56672

Ion	Ratio	Lower	Upper
109	100		
83	17.1	0.0	49.2

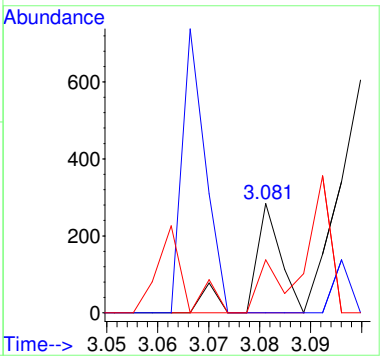


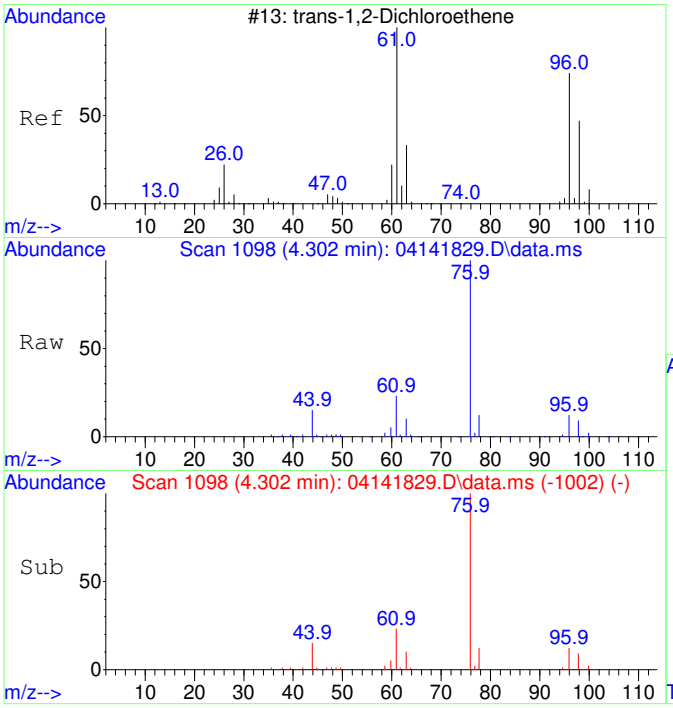


#26
1,1-Dichloroethene SCAN
Concen: 44.02 ug/L
RT: 3.081 min Scan# 806
Delta R.T. -0.011 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 106

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.6	81.6#
98	135.8	7.5	67.5#

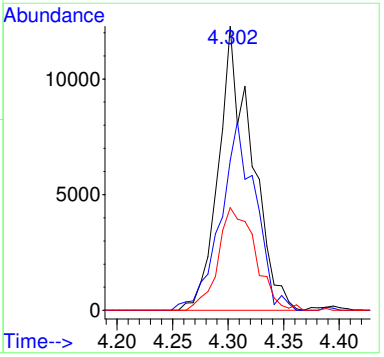


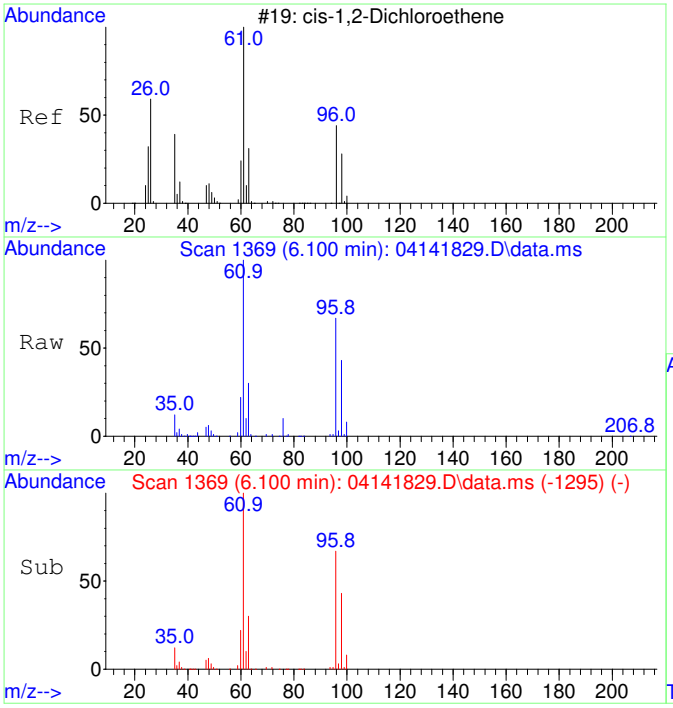


#27
trans-1,2-Dichloroethene SCAN
Concen: 10839.76 ug/L
RT: 4.302 min Scan# 1098
Delta R.T. -0.007 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 25577

Ion	Ratio	Lower	Upper
61	100		
96	69.9	51.8	111.8
98	40.6	22.7	82.7

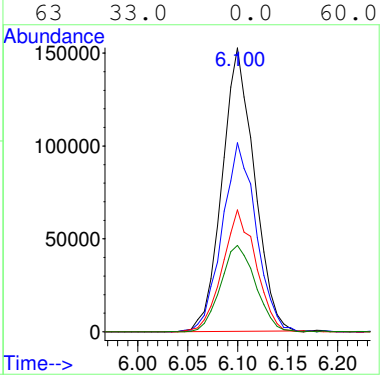


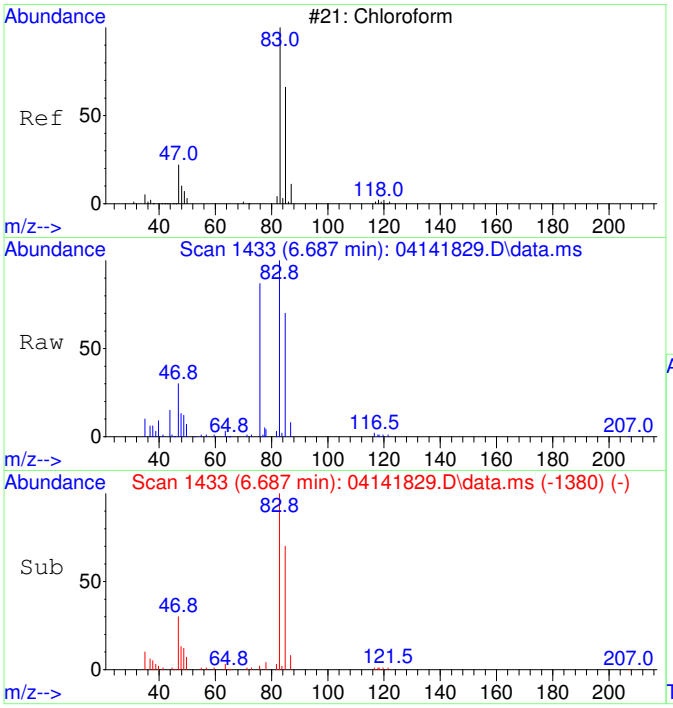


#29
cis-1,2-Dichloroethene SCAN
Concen: 120889.76 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.007 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 61 Resp: 342608

Ion	Ratio	Lower	Upper
61	100		
96	70.3	49.4	109.4
98	44.6	9.5	69.5
63	33.0	0.0	60.0

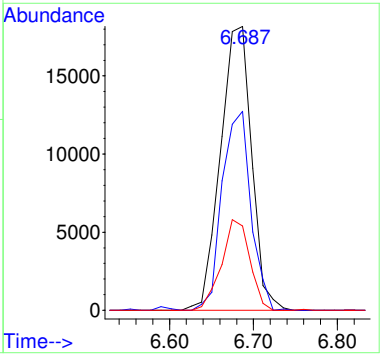


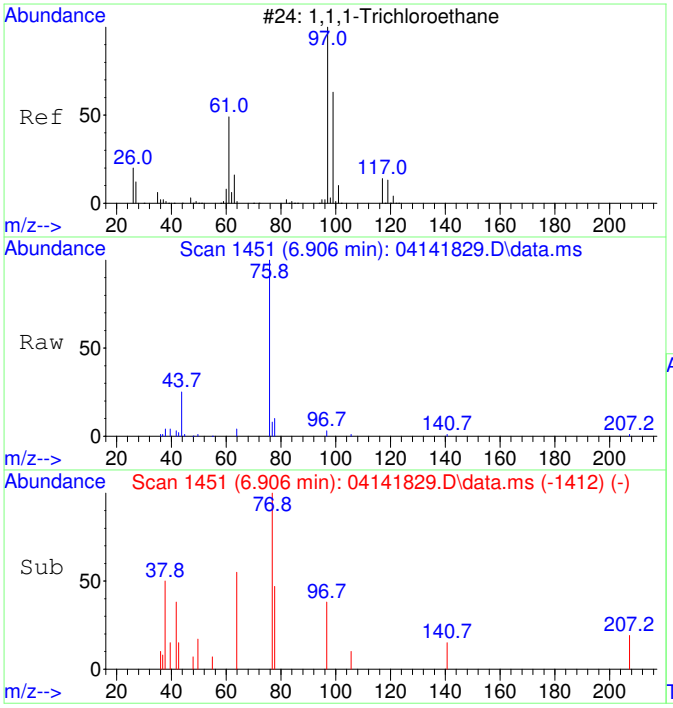


#30
Chloroform SCAN
Concen: 13725.71 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 83 Resp: 46934

Ion	Ratio	Lower	Upper
83	100		
85	64.6	47.8	107.8
47	29.0	8.2	68.2

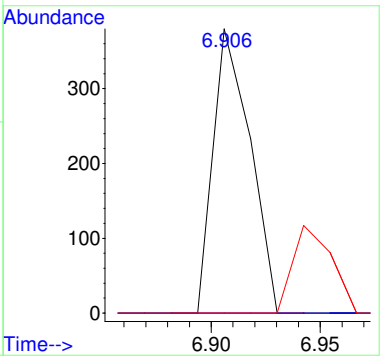


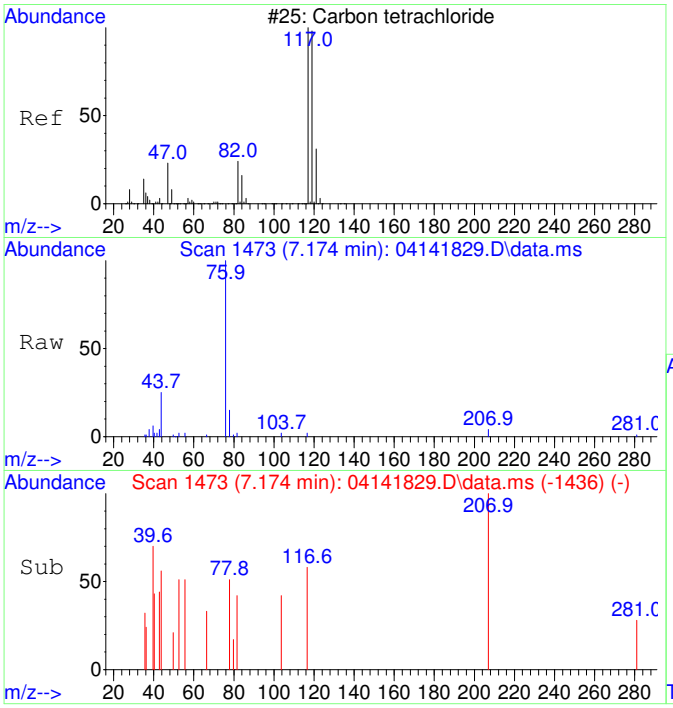


#31
1,1,1-Trichloroethane SCAN
Concen: 104.17 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.024 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 97 Resp: 447

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

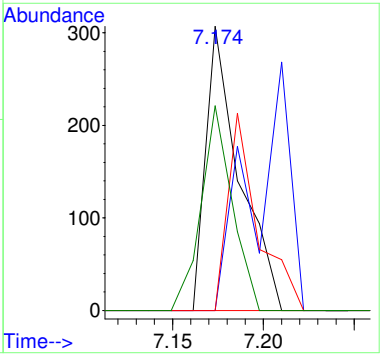


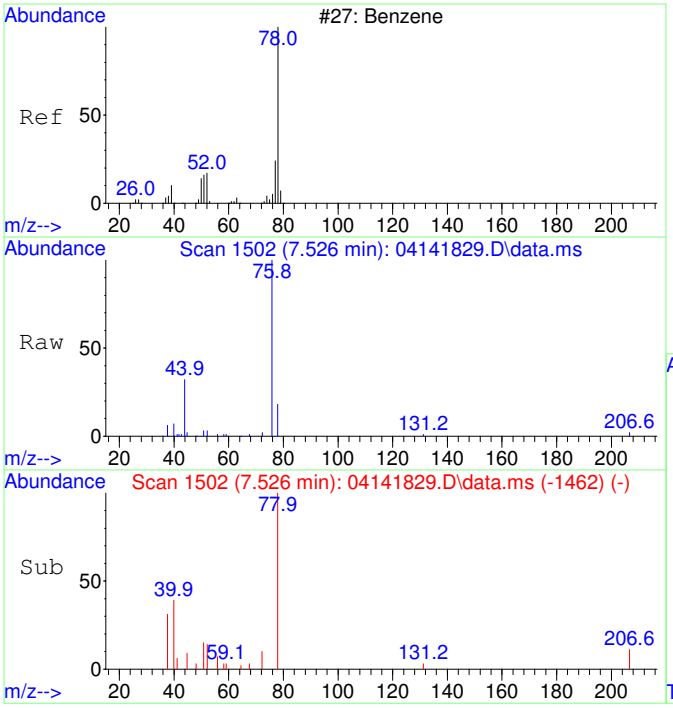


#32
Carbon tetrachloride SCAN
Concen: 127.98 ug/L
RT: 7.174 min Scan# 1473
Delta R.T. -0.049 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:117 Resp: 395

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	61.8	0.0	53.0#
82	66.6	7.9	67.9

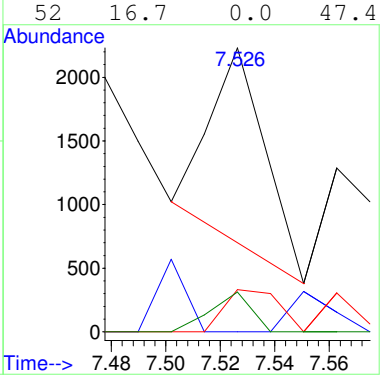


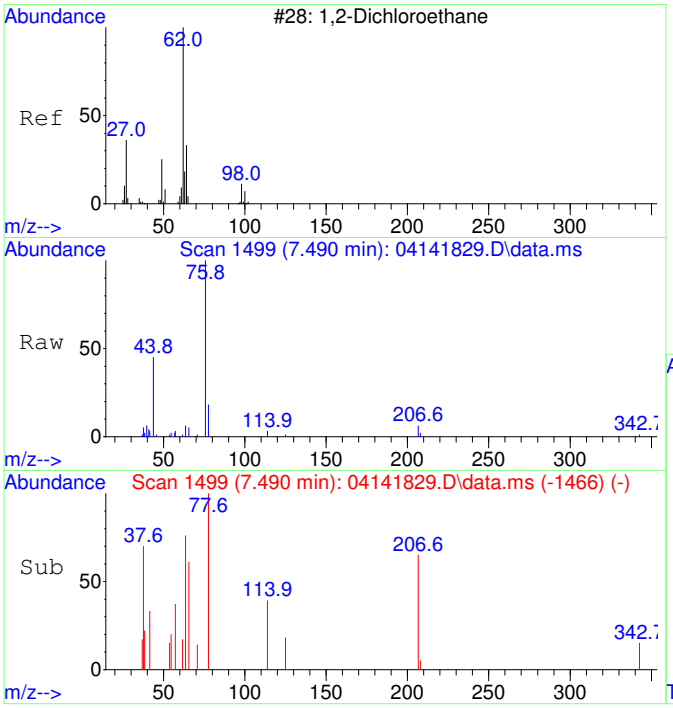


#33
Benzene SCAN
Concen: 207.69 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. -0.012 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 78 Resp: 1943

Ion	Ratio	Lower	Upper
78	100		
77	0.0	5.4	65.4#
51	23.7	0.0	47.2
52	16.7	0.0	47.4

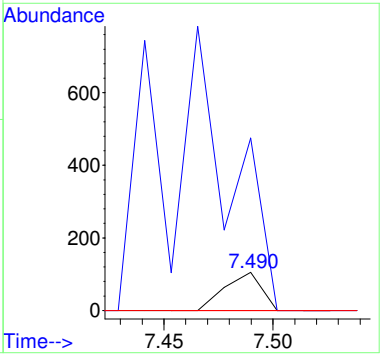


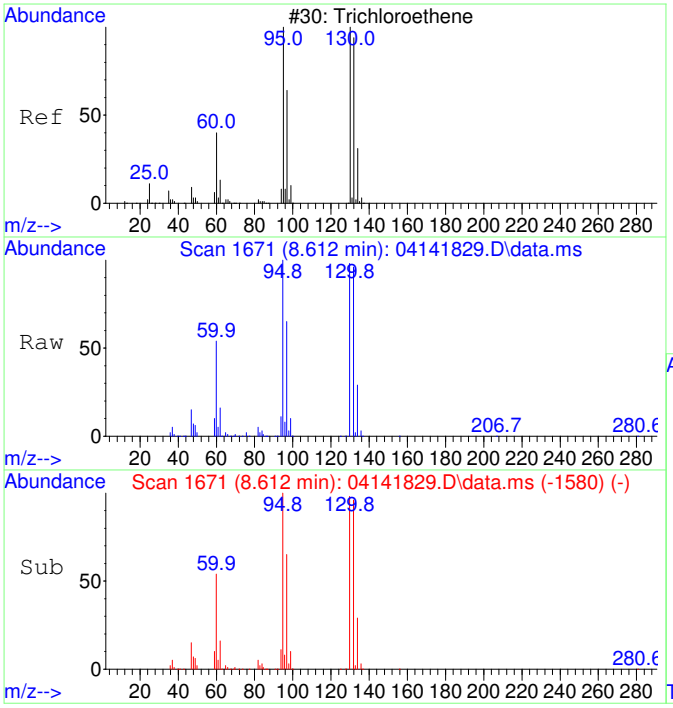


#34
1,2-Dichloroethane SCAN
Concen: 34.67 ug/L
RT: 7.490 min Scan# 1499
Delta R.T. -0.097 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 62 Resp: 123

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	0.0	1.2	61.2#

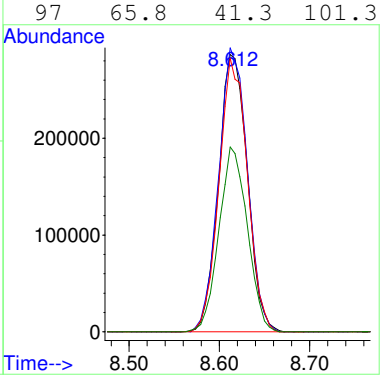


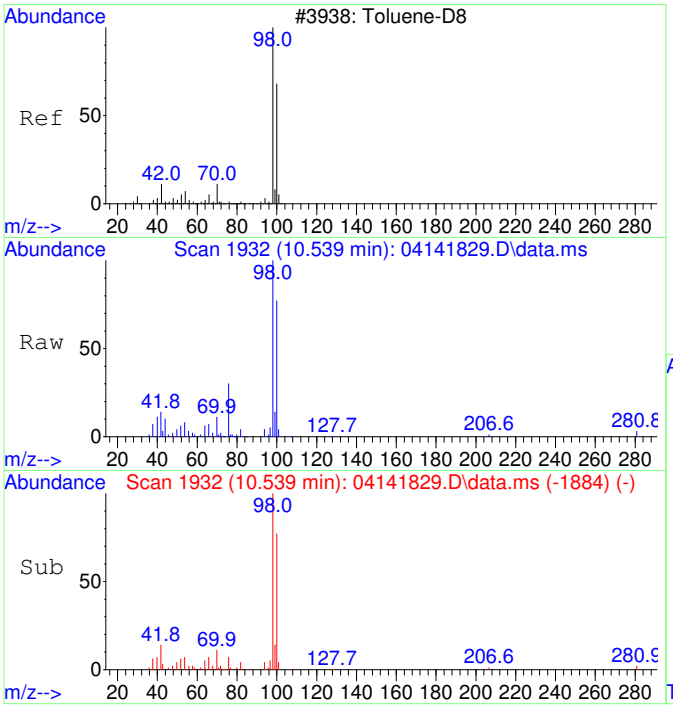


#35
Trichloroethene SCAN
Concen: 270159.60 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:130 Resp: 635015

Ion	Ratio	Lower	Upper
130	100		
95	102.5	71.3	131.3
132	97.2	75.1	135.1
97	65.8	41.3	101.3

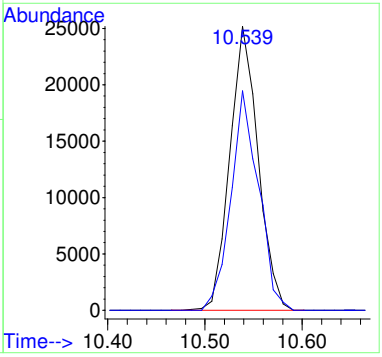


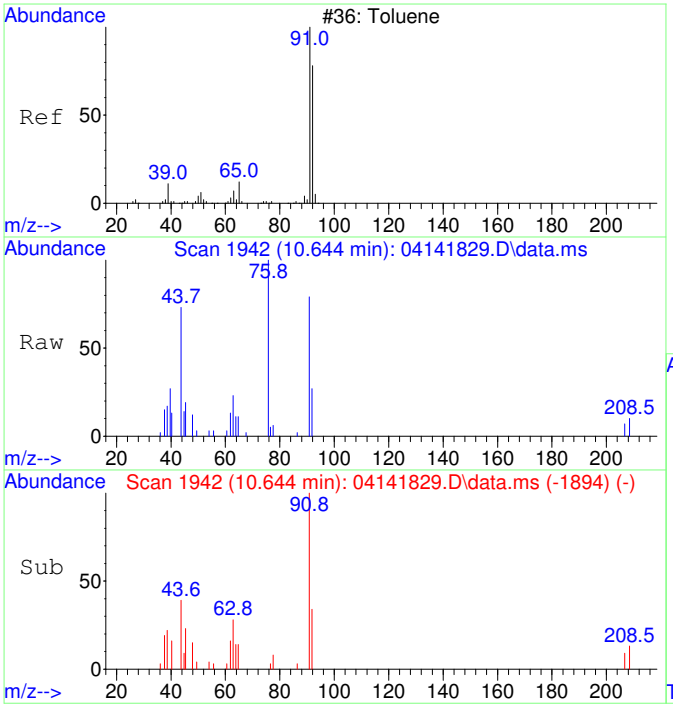


#36
Toluene-d8 SCAN
Concen: 5330.16 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 98 Resp: 50850

Ion	Ratio	Lower	Upper
98	100		
100	75.5	37.3	97.3

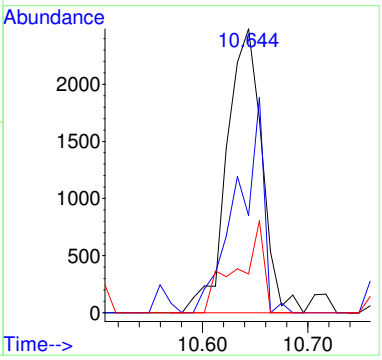


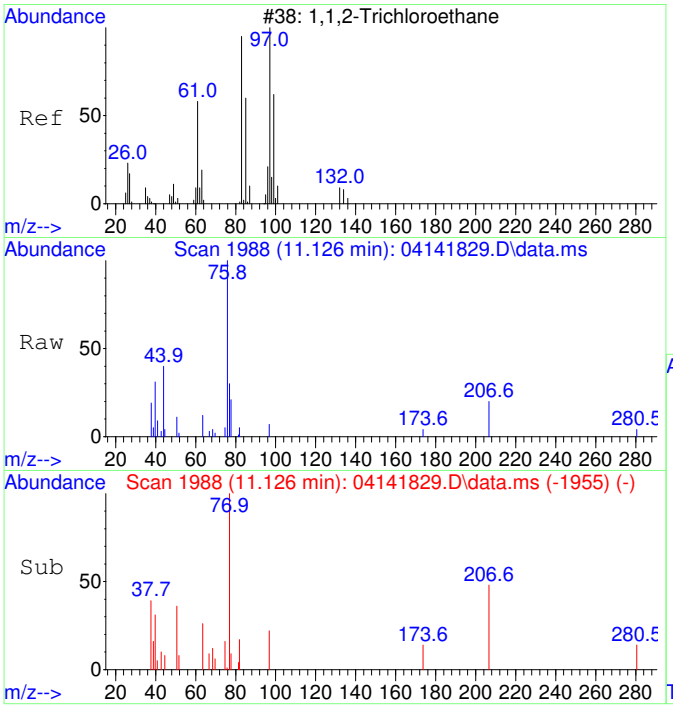


#37
Toluene SCAN
Concen: 540.42 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 5766

Ion	Ratio	Lower	Upper
91	100		
92	57.2	39.1	99.1
65	24.2	0.0	43.8

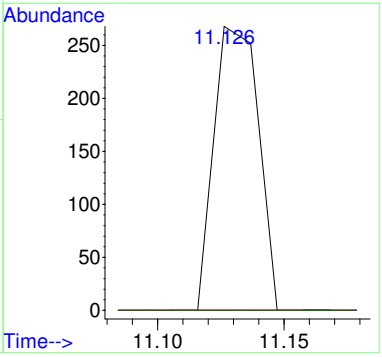


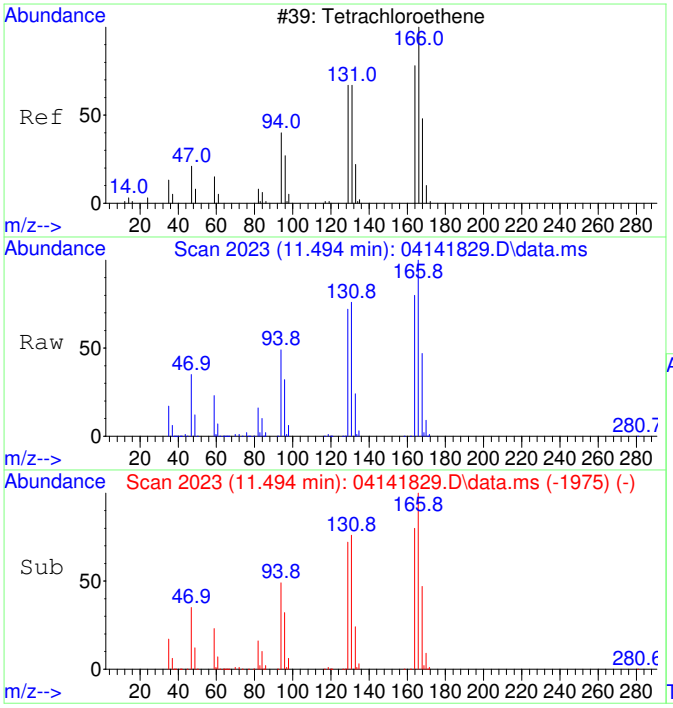


#38
1,1,2-Trichloroethane SCAN
Concen: 100.08 ug/L
RT: 11.126 min Scan# 1988
Delta R.T. -0.157 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 97 Resp: 327

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

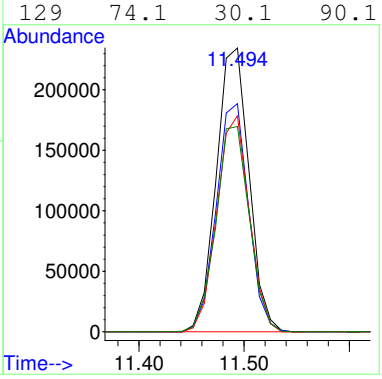


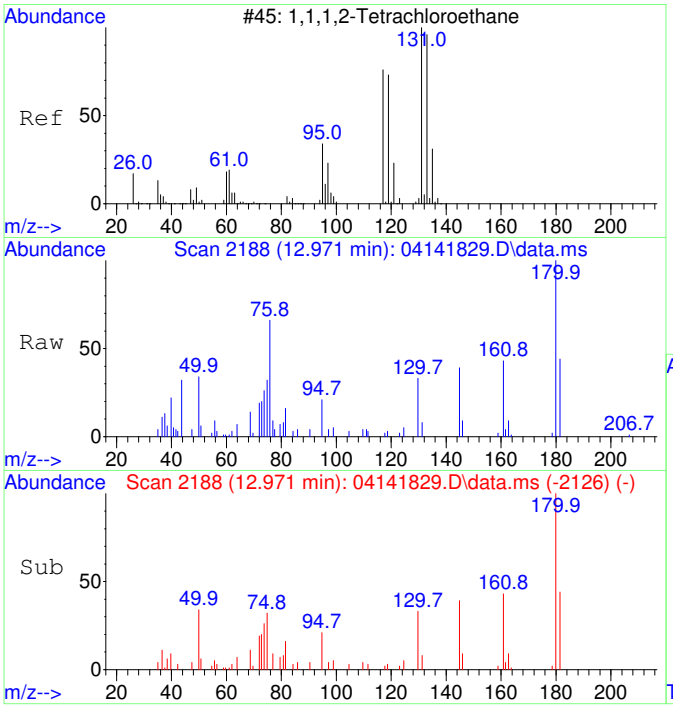


#39
Tetrachloroethene SCAN
Concen: 146129.08 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:166 Resp: 508456

Ion	Ratio	Lower	Upper
166	100		
164	79.0	49.8	109.8
131	74.9	42.0	102.0
129	74.1	30.1	90.1

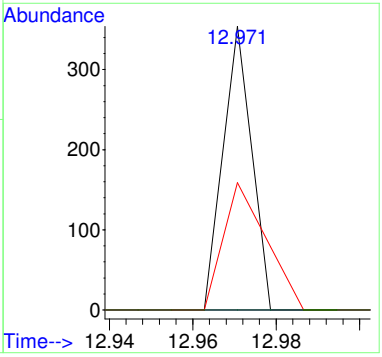


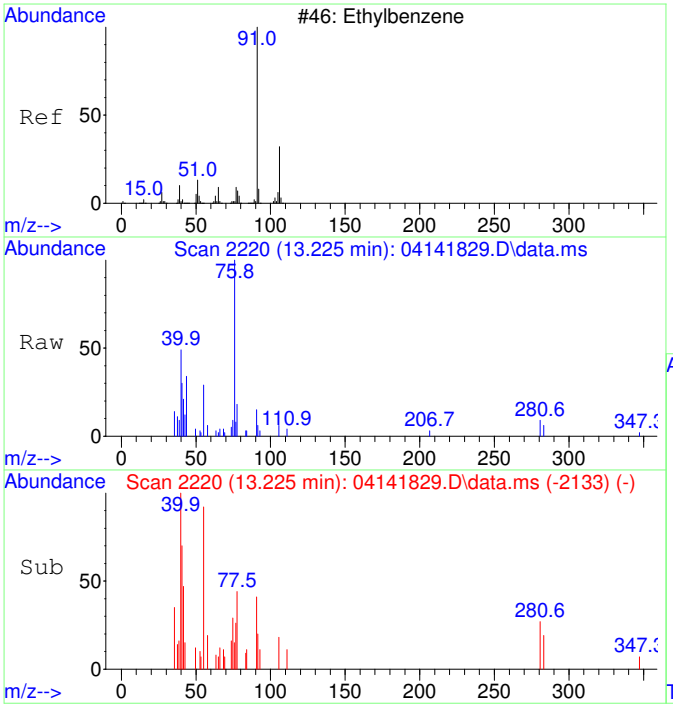


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 62.00 ug/L
RT: 12.971 min Scan# 2188
Delta R.T. -0.008 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:131 Resp: 169

Ion	Ratio	Lower	Upper
131	100		
133	0.0	78.7	138.7#
119	66.9	43.0	103.0
117	0.0	40.3	100.3#

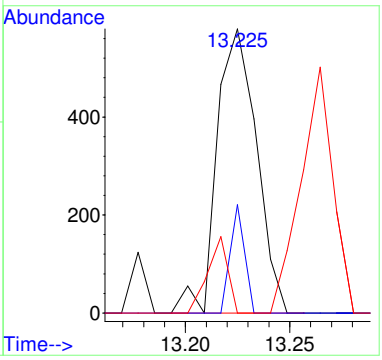


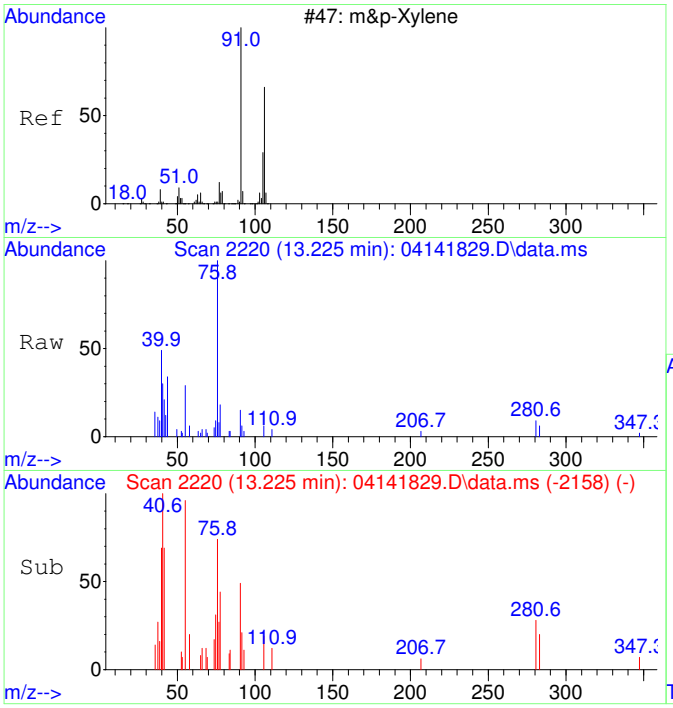


#42
Ethylbenzene SCAN
Concen: 54.77 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. 0.191 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 766

Ion	Ratio	Lower	Upper
91	100		
106	13.7	1.8	61.8
51	13.7	0.0	45.4

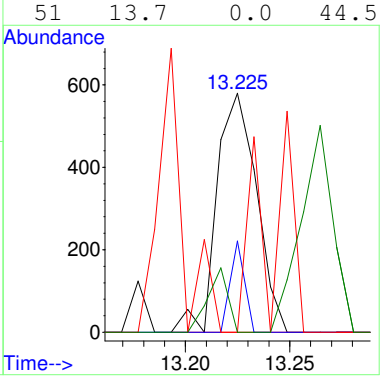


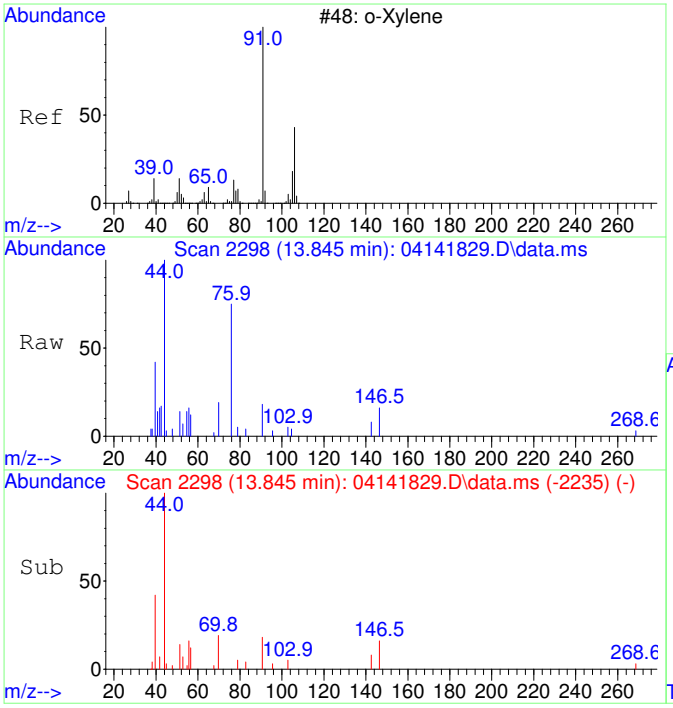


#43
m&p-Xylene SCAN
Concen: 33.66 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 766

Ion	Ratio	Lower	Upper
91	100		
106	13.7	14.6	74.6#
105	29.5	0.0	52.8
51	13.7	0.0	44.5

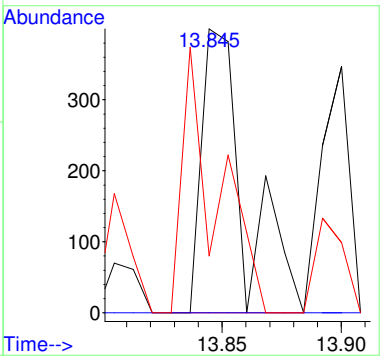


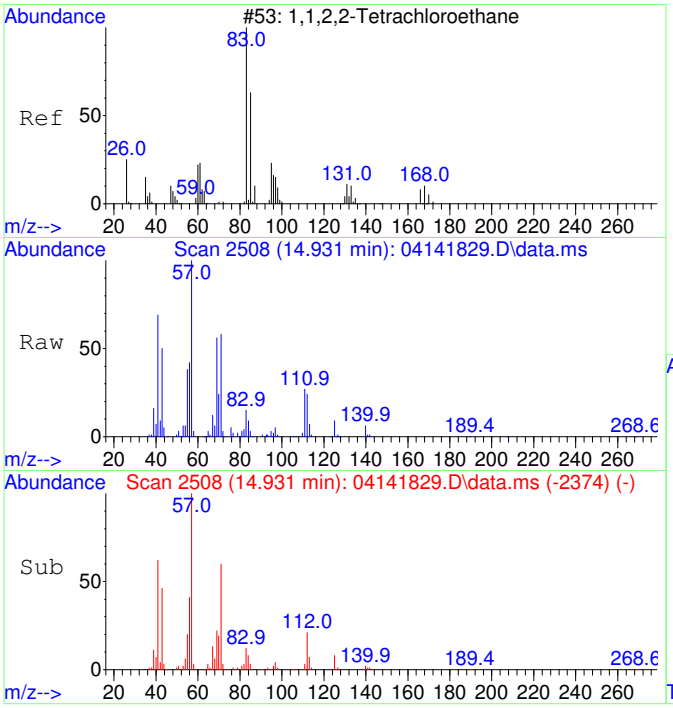


#44
o-Xylene SCAN
Concen: 40.98 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 91 Resp: 505

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	74.5	0.0	54.9#

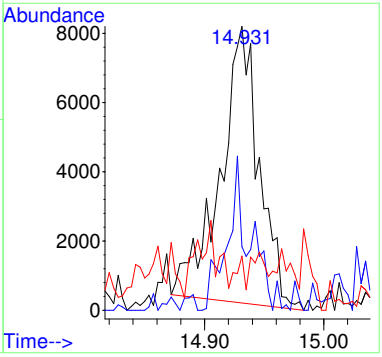


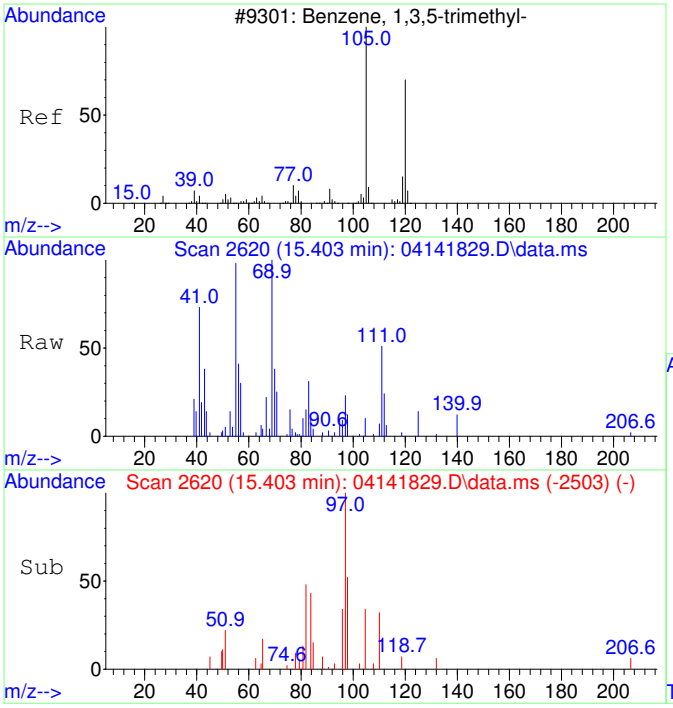


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 2796.86 ug/L
RT: 14.931 min Scan# 2508
Delta R.T. -0.004 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 83 Resp: 18042

Ion	Ratio	Lower	Upper
83	100		
85	31.7	32.4	92.4#
95	4.1	0.0	41.2

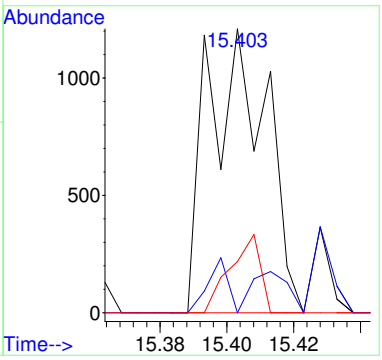


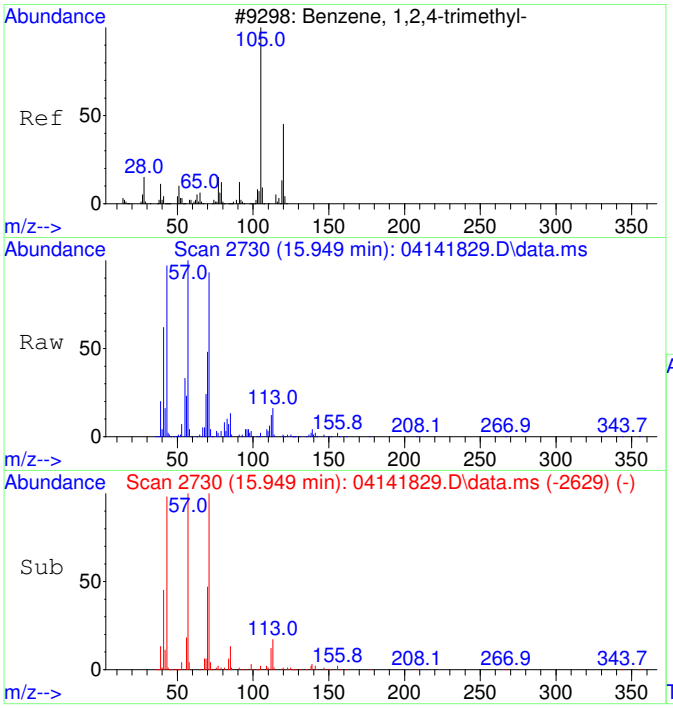


#46
1,3,5-Trimethylbenzene SCAN
Concen: 103.28 ug/L
RT: 15.403 min Scan# 2620
Delta R.T. -0.009 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:105 Resp: 1463

Ion	Ratio	Lower	Upper
105	100		
120	6.7	16.1	76.1#
119	0.0	0.0	41.8

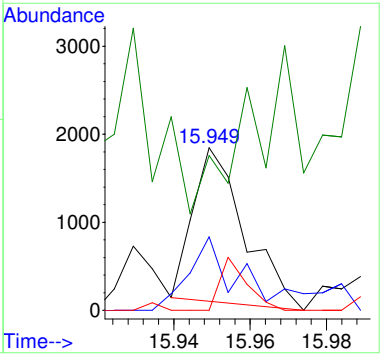


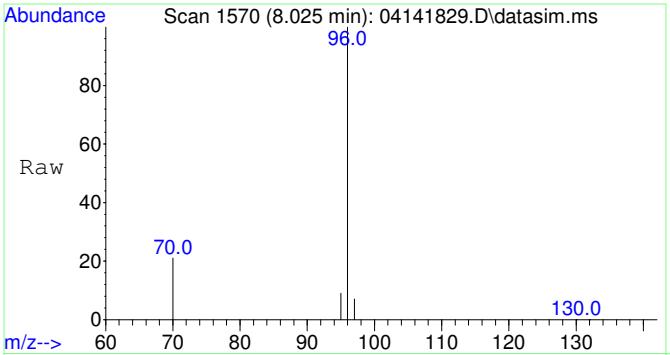


#47
1,2,4-Trimethylbenzene SCAN
Concen: 114.30 ug/L
RT: 15.949 min Scan# 2730
Delta R.T. 0.001 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion:105 Resp: 1632

Ion	Ratio	Lower	Upper
105	100		
120	58.6	12.8	72.8
119	18.1	0.0	42.5
77	27.8	0.0	42.2

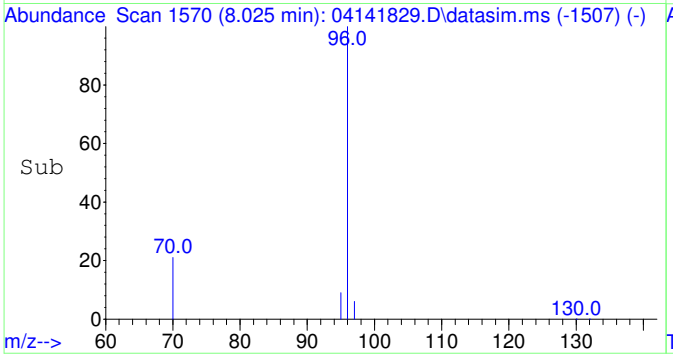


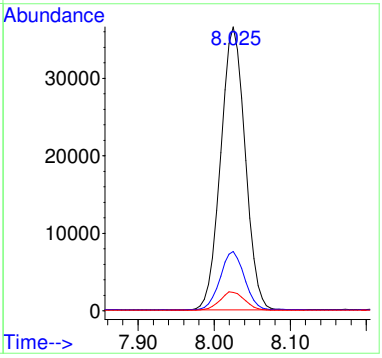


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141829.D
Acq: 14 Apr 2018 21:57

Tgt Ion: 96 Resp: 81201

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.6	0.0	36.7





1804005-02

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141830.D
Acq On : 14 Apr 2018 22:20
InstName : AG5975C
Operator : RH
Sample : 1804005-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 16 09:40:18 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

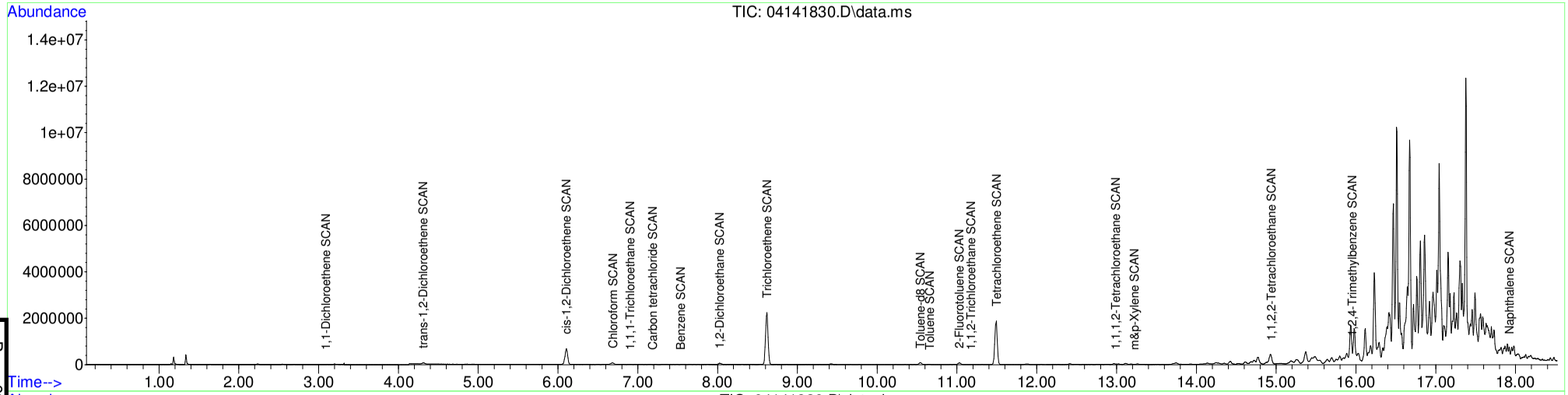
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	117453	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	88934	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	100184	5081.83 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.64%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	2534	491.50 ug/L	87
3] trans-1,2-Dichloroethene	4.309	61	61604	11693.93 ug/L	100
4] 1,1-Dichloroethane	5.066	63	367	52.32 ug/L	78
5] cis-1,2-Dichloroethene	6.101	61	800811	123405.53 ug/L	99
6] Chloroform	6.676	83	109118	14297.77 ug/L	100
7] 1,1,1-Trichloroethane	6.931	97	551	73.94 ug/L	93
8] Carbon tetrachloride	7.211	117	1406	206.80 ug/L	94
9] Benzene	7.540	78	2155	114.54 ug/L	83
10] 1,2-Dichloroethane	7.588	62	200	30.49 ug/L	99
11] Trichloroethene	8.618	130	1518536	292935.35 ug/L	98
13] Toluene	10.634	91	11844	477.33 ug/L	100
14] 1,1,2-Trichloroethane	11.222	97	152	27.73 ug/L #	7
15] Tetrachloroethene	11.495	166	1251163	183967.58 ug/L	98
17] 1,1,1,2-Tetrachloroethane	12.964	131	560	96.21 ug/L #	43
18] Ethylbenzene	13.035	91	596	21.16 ug/L #	60
19] m&p-Xylene	13.218	91	1648	74.77 ug/L	98
20] o-Xylene	13.846	91	795	34.23 ug/L	84
21] 1,1,2,2-Tetrachloroethane	14.932	83	39925	3703.73 ug/L #	55
22] 1,3,5-Trimethylbenzene	15.408	105	2693	99.07 ug/L	93
23] 1,2,4-Trimethylbenzene	15.949	105	6610	239.05 ug/L	92
25) 2-Fluorotoluene SCAN	11.032	109	58667	5169.34 ug/L	94
26) 1,1-Dichloroethene SCAN	3.092	61	228	90.65 ug/L #	40
27) trans-1,2-Dichloroethe...	4.308	61	38826	15753.90 ug/L	73
29) cis-1,2-Dichloroethene...	6.106	61	497493	168063.86 ug/L	90
30) Chloroform SCAN	6.687	83	67969	19030.64 ug/L	79
31) 1,1,1-Trichloroethane ...	6.906	97	270	60.24 ug/L #	29
32) Carbon tetrachloride SCAN	7.186	117	350	108.57 ug/L #	22
33) Benzene SCAN	7.538	78	3150	322.36 ug/L	75
34) 1,2-Dichloroethane SCAN	8.024	62	611	164.90 ug/L #	1
35) Trichloroethene SCAN	8.617	130	825767	336348.35 ug/L	95
36) Toluene-d8 SCAN	10.538	98	54324	5451.76 ug/L	100
37) Toluene SCAN	10.654	91	7681	689.24 ug/L #	83
38) 1,1,2-Trichloroethane ...	11.179	97	317	92.88 ug/L #	17
39) Tetrachloroethene SCAN	11.493	166	622008	171149.08 ug/L	94
41) 1,1,1,2-Tetrachloroeth...	12.986	131	195	68.49 ug/L #	1
43) m&p-Xylene SCAN	13.225	91	1589	66.84 ug/L #	71
45) 1,1,2,2-Tetrachloroeth...	14.935	83	12215	1812.91 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.953	105	3397	227.77 ug/L #	88
48) Naphthalene SCAN	17.916	128	765	31.84 ug/L #	1

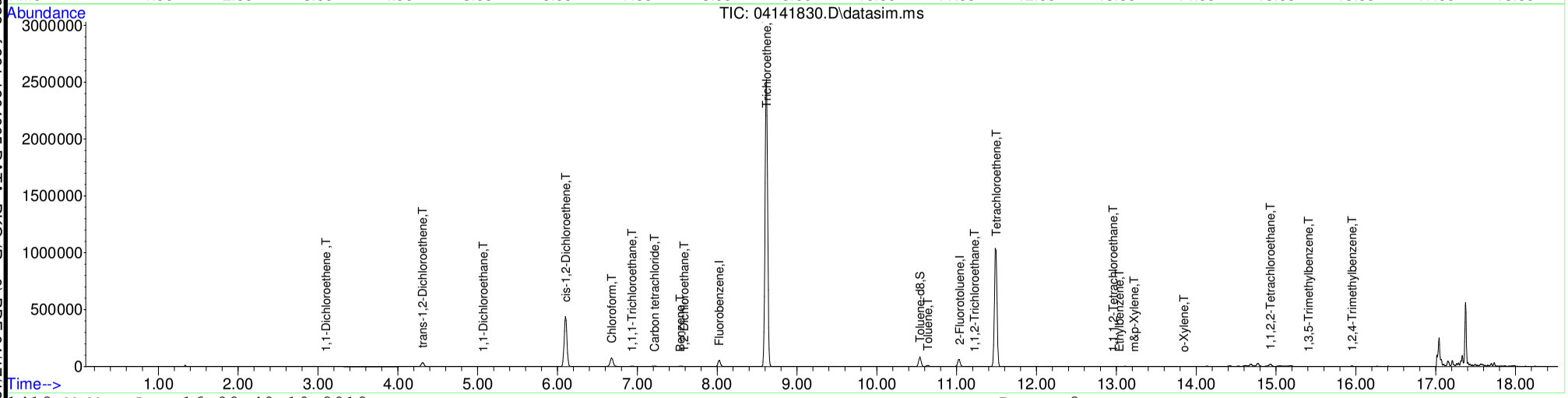
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141830.D
Acq On : 14 Apr 2018 22:20
InstName : AG5975C
Operator : RH
Sample : 1804005-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 16 09:40:18 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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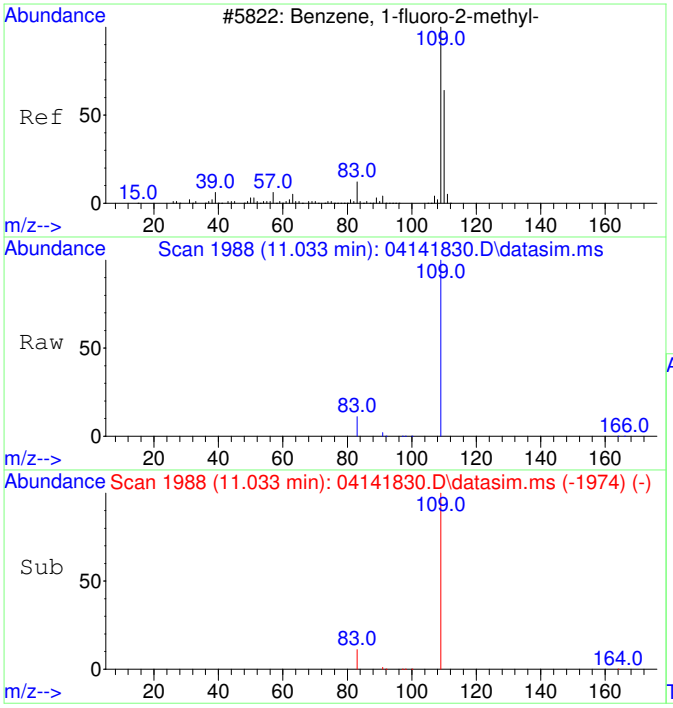
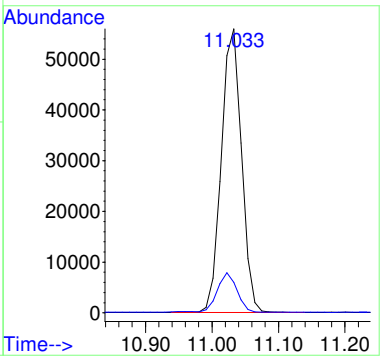
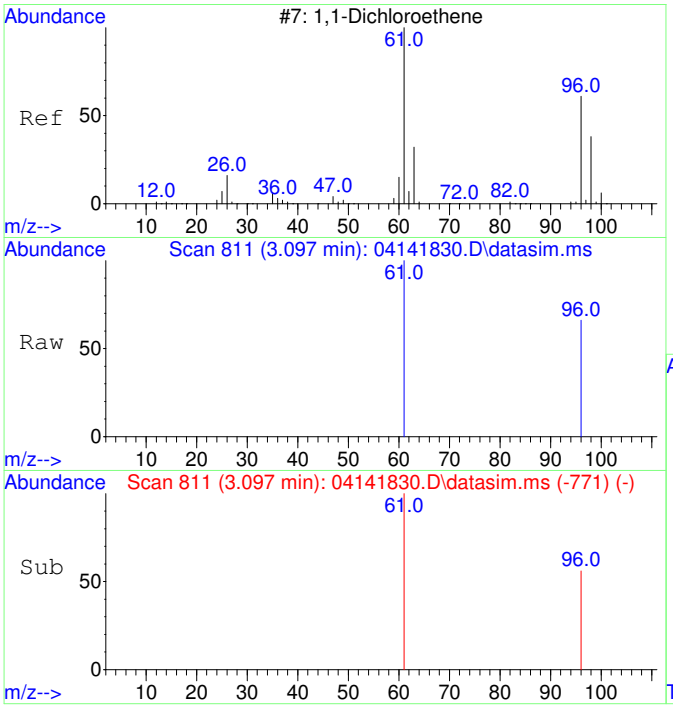


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:109 Resp: 117453

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	44.4

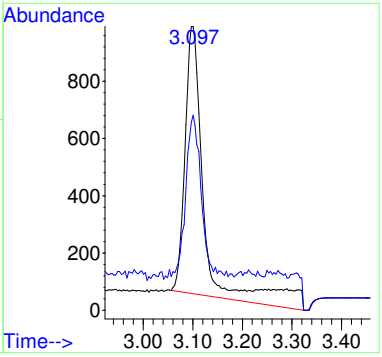




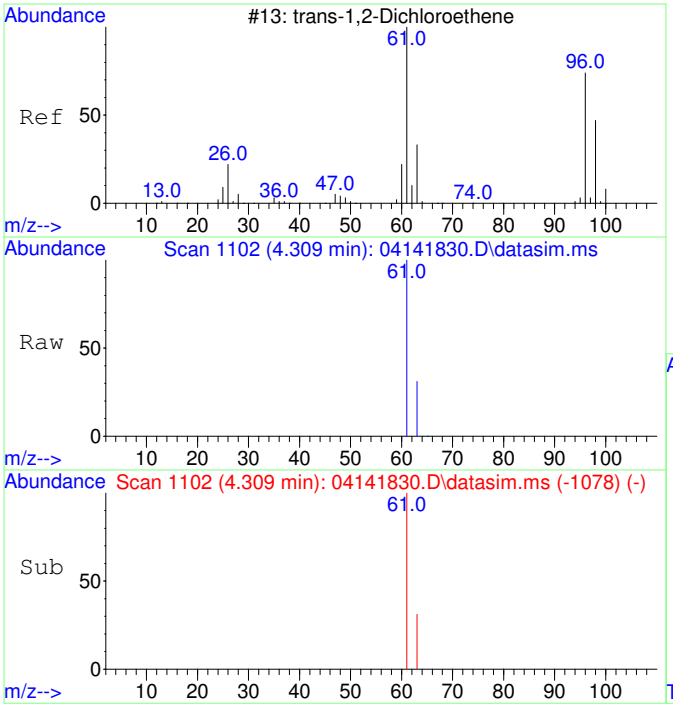
#2
1,1-Dichloroethene
Concen: 491.50 ug/L
RT: 3.097 min Scan# 811
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 2534

Ion	Ratio	Lower	Upper
61	100		
96	46.5	26.1	86.1



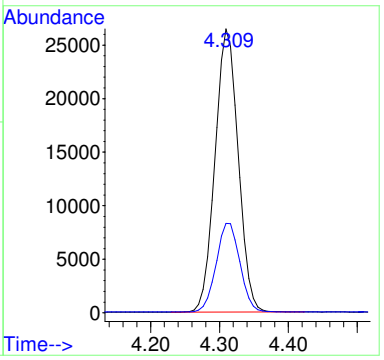
Before MI:
IMPROPER
BASELINE

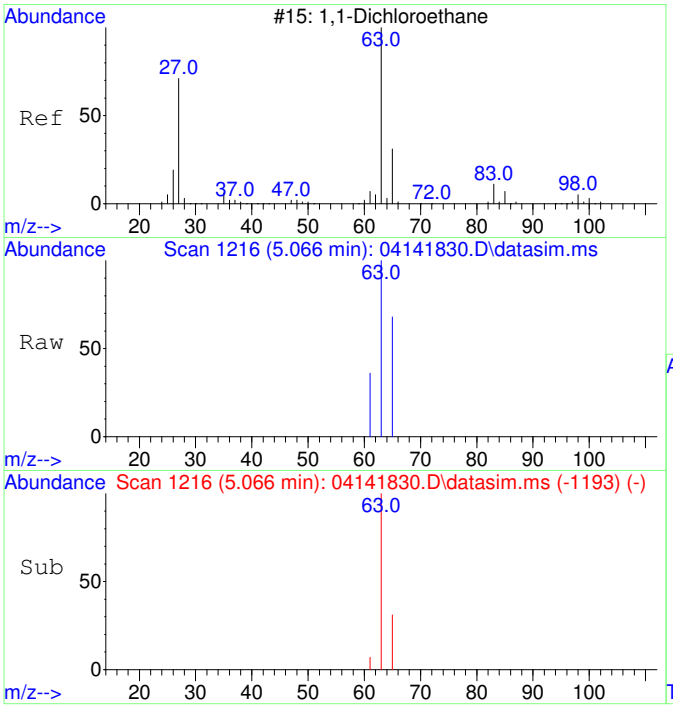


#3
trans-1,2-Dichloroethene
Concen: 11693.93 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.006 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 61604

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.0	62.0

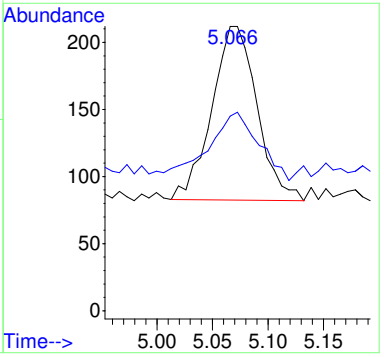


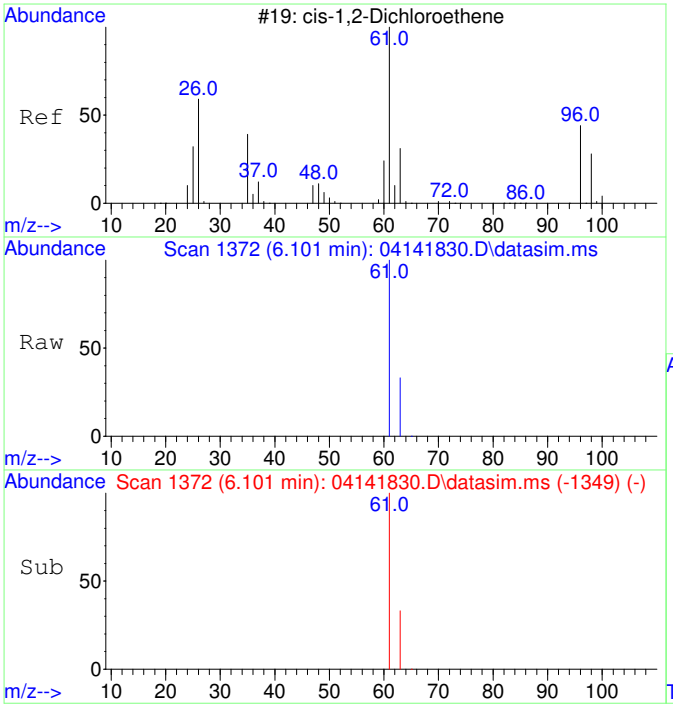


#4
1,1-Dichloroethane
Concen: 52.32 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 63 Resp: 367

Ion	Ratio	Lower	Upper
63	100		
65	43.9	1.8	61.8

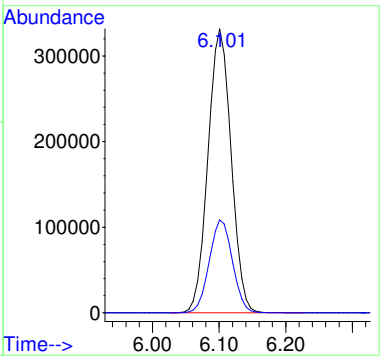


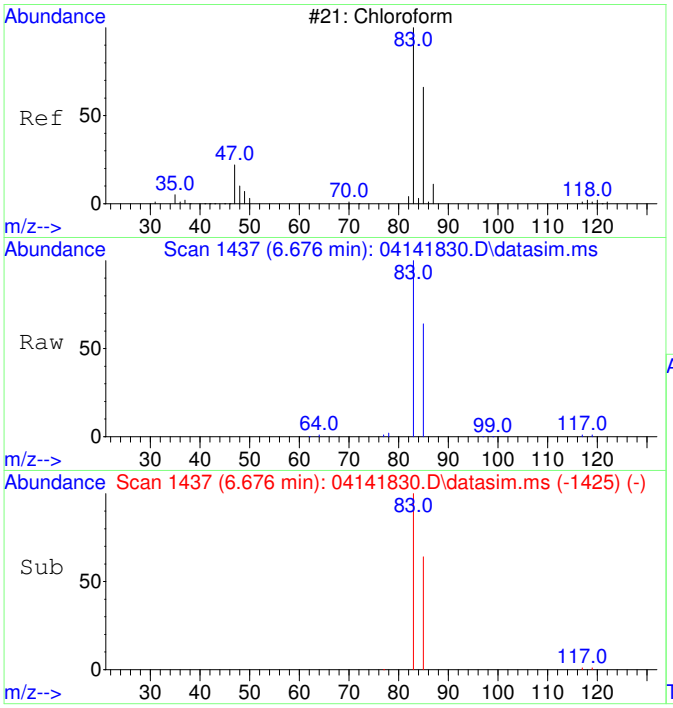


#5
cis-1,2-Dichloroethene
Concen: 123405.53 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 800811

Ion	Ratio	Lower	Upper
61	100		
63	32.7	2.0	62.0

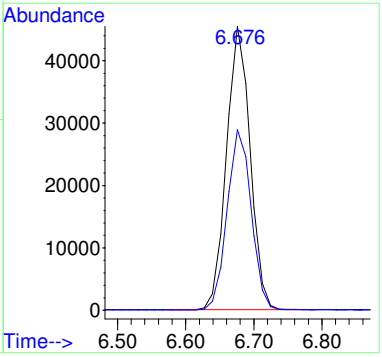


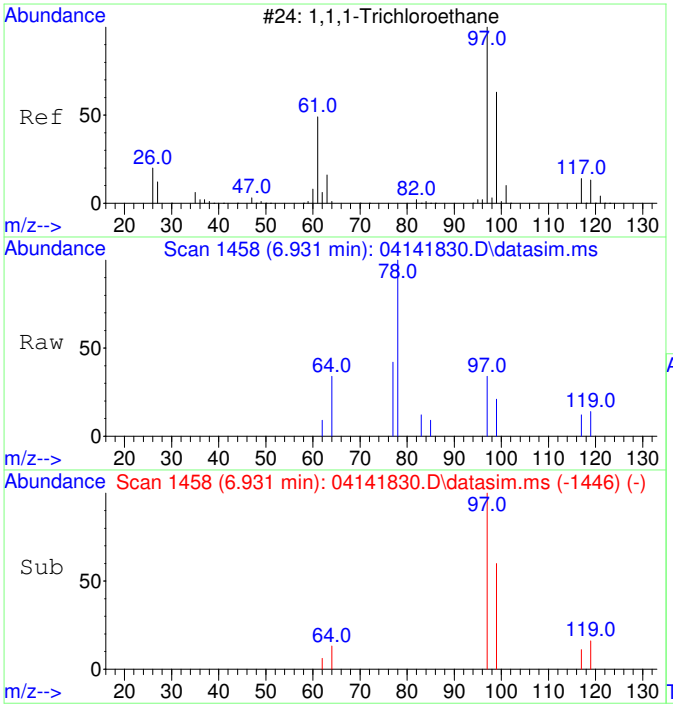


#6
Chloroform
Concen: 14297.77 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 83 Resp: 109118

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.2	94.2

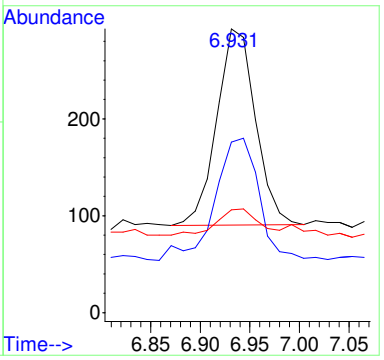


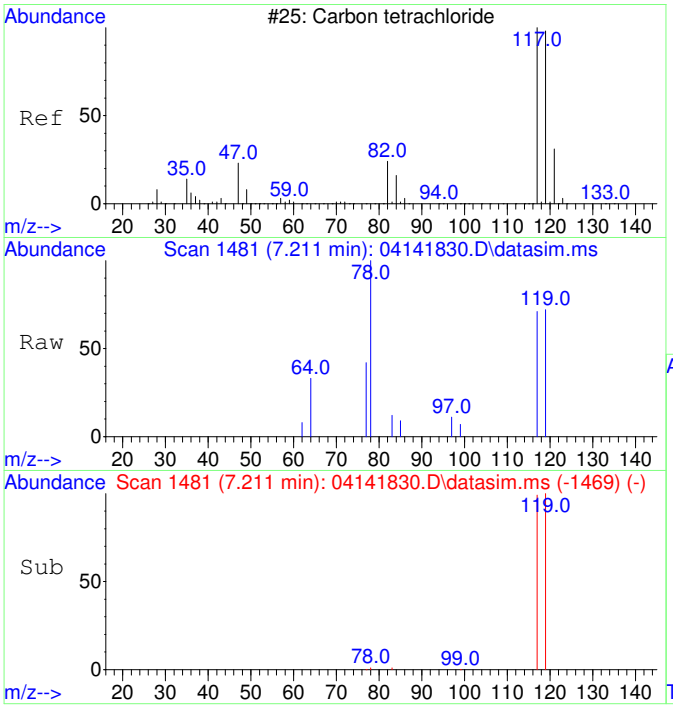


#7
1,1,1-Trichloroethane
Concen: 73.94 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 97 Resp: 551

Ion	Ratio	Lower	Upper
97	100		
99	70.2	34.5	94.5
117	14.2	0.0	42.6

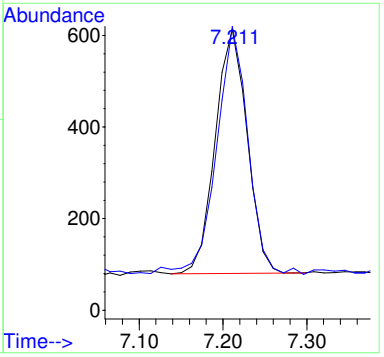


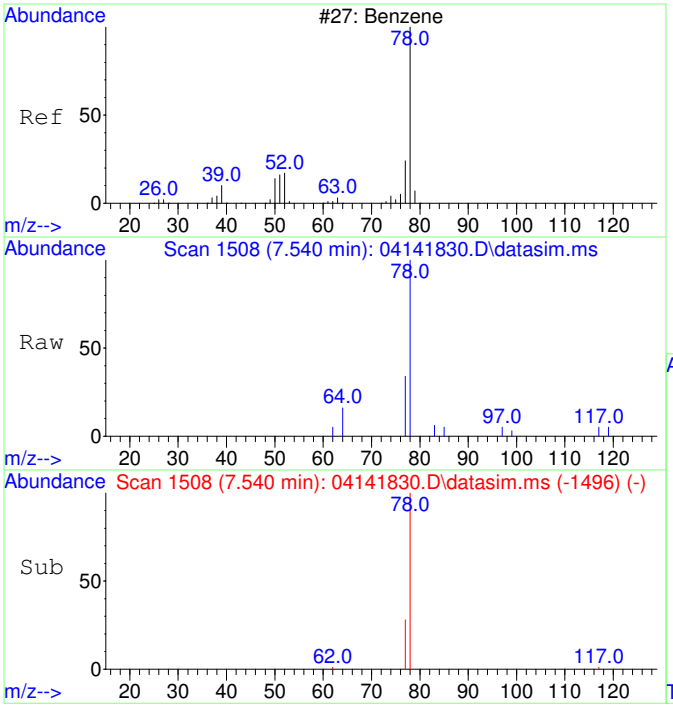


#8
Carbon tetrachloride
Concen: 206.80 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:117 Resp: 1406

Ion	Ratio	Lower	Upper
117	100		
119	100.0	64.5	124.5

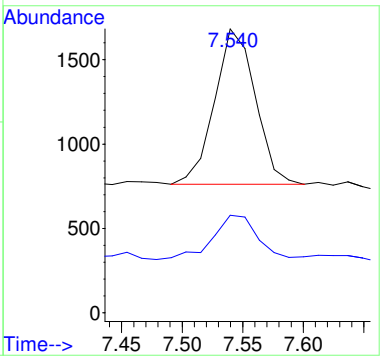


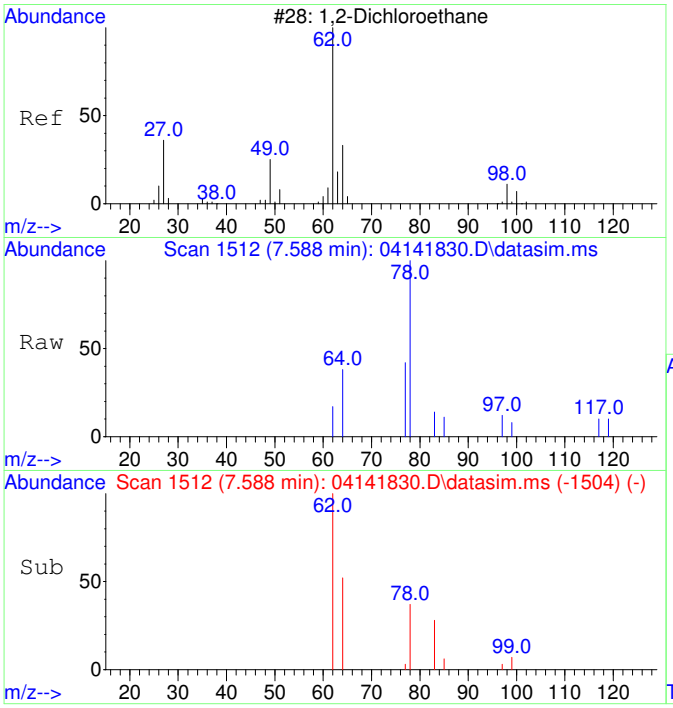


#9
Benzene
Concen: 114.54 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 78 Resp: 2155

Ion	Ratio	Lower	Upper
78	100		
77	32.1	0.0	53.6

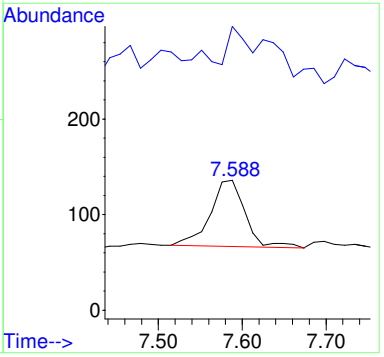


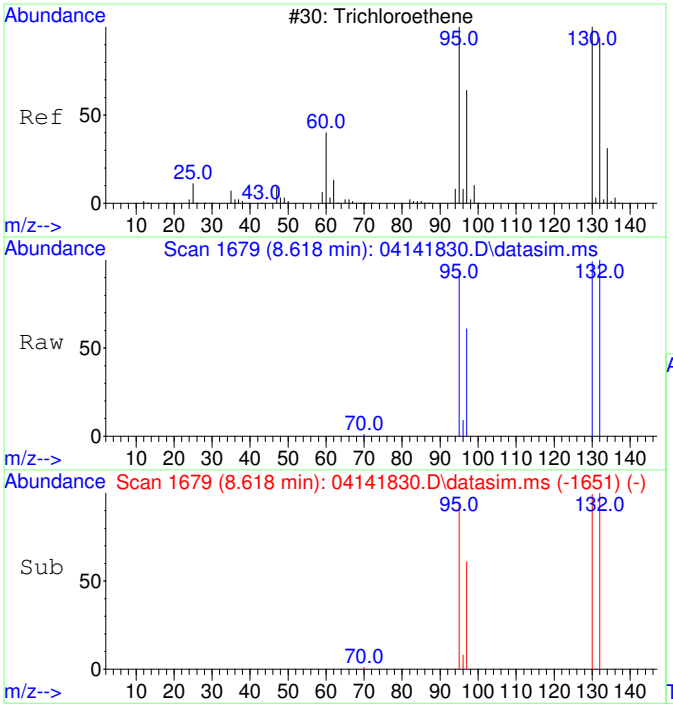


#10
1,2-Dichloroethane
Concen: 30.49 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 62 Resp: 200

Ion	Ratio	Lower	Upper
62	100		
64	31.5	1.8	61.8

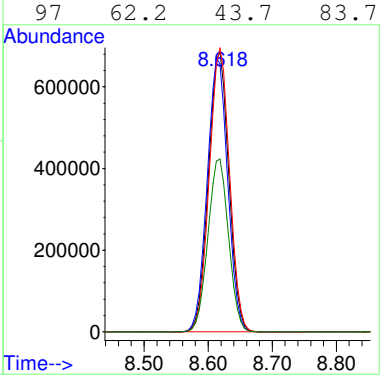


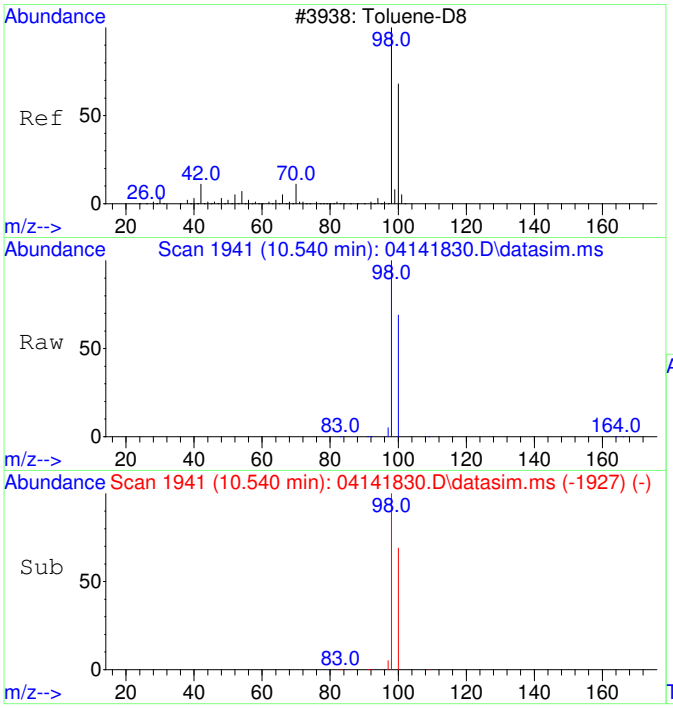


#11
Trichloroethene
Concen: 292935.35 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:130 Resp: 1518536

Ion	Ratio	Lower	Upper
130	100		
95	97.9	68.8	128.8
132	100.6	78.6	118.6
97	62.2	43.7	83.7

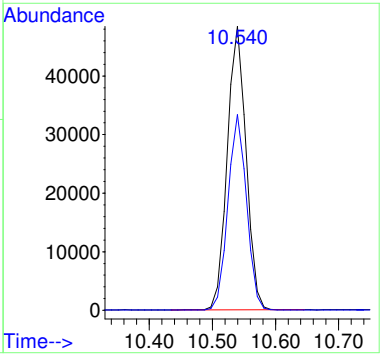


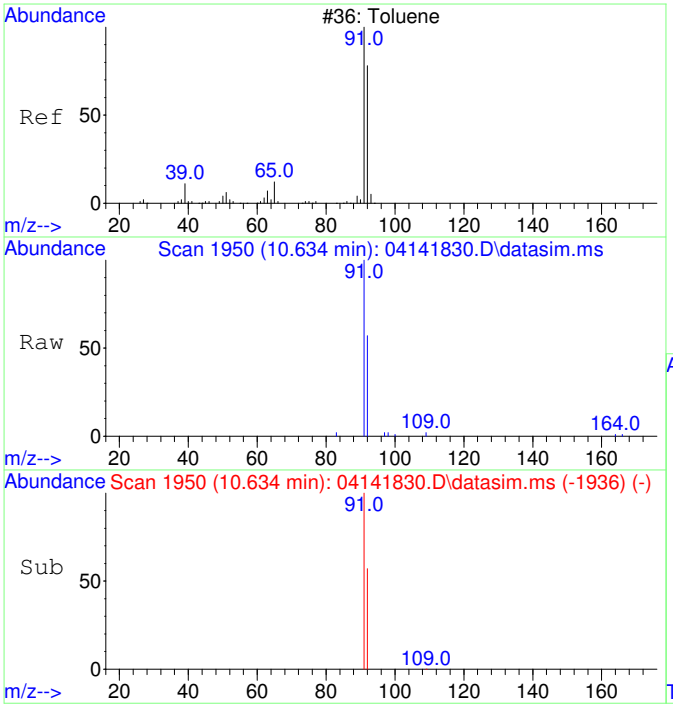


#12
Toluene-d8
Concen: 5081.83 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 98 Resp: 100184

Ion	Ratio	Lower	Upper
98	100		
100	67.9	36.9	96.9

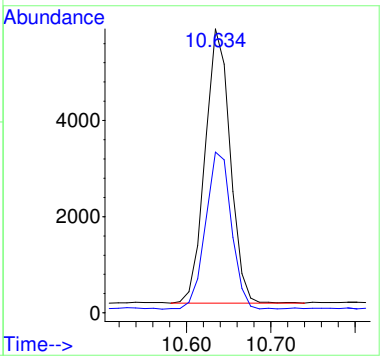


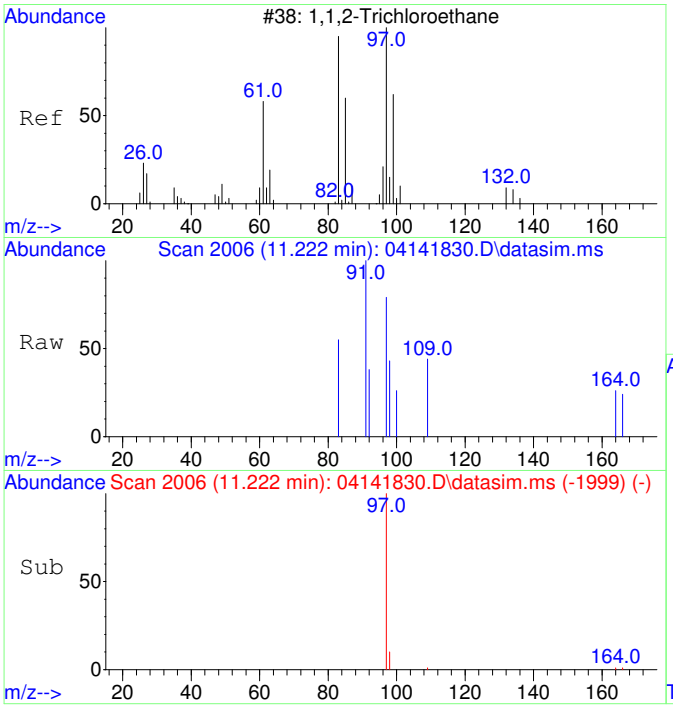


#13
Toluene
Concen: 477.33 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 11844

Ion	Ratio	Lower	Upper
91	100		
92	58.7	28.8	88.8

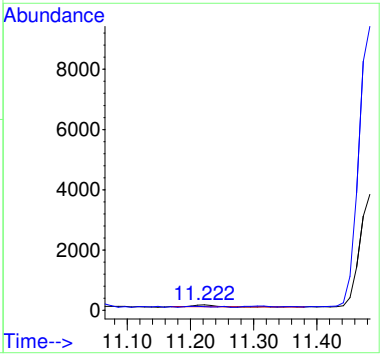


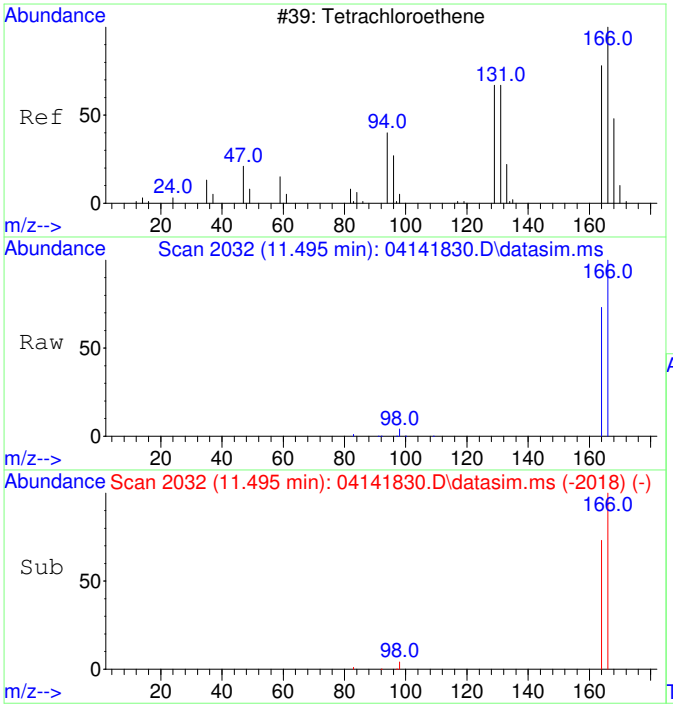


#14
1,1,2-Trichloroethane
Concen: 27.73 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.074 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 97 Resp: 152

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.3	114.3#

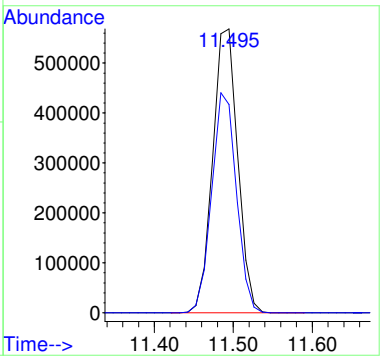


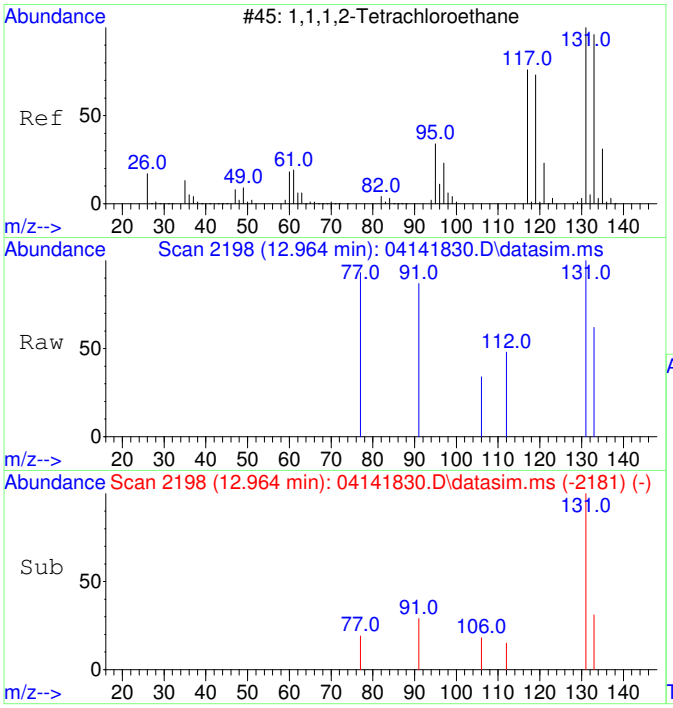


#15
Tetrachloroethene
Concen: 183967.58 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:166 Resp: 1251163

Ion	Ratio	Lower	Upper
166	100		
164	76.6	48.0	108.0

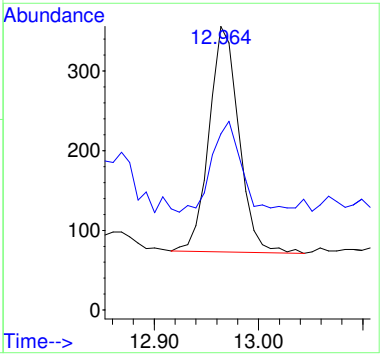


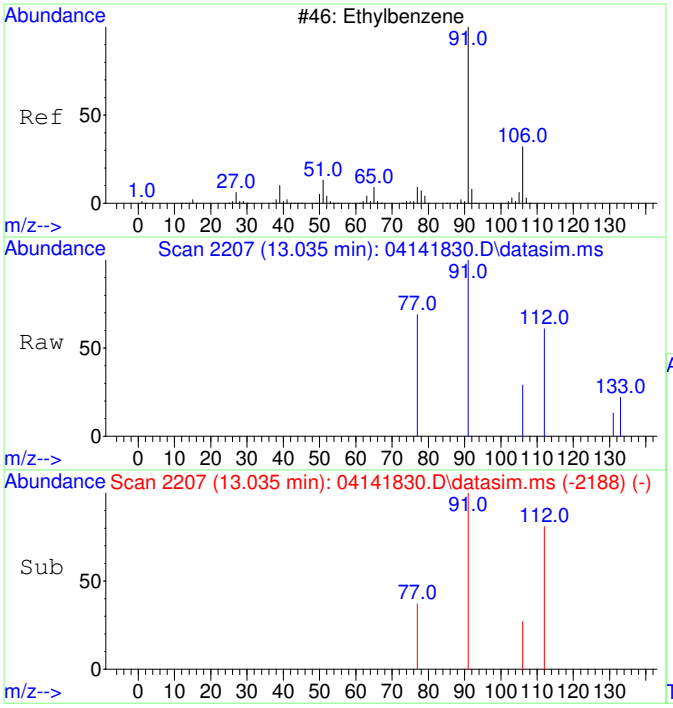


#17
1,1,1,2-Tetrachloroethane
Concen: 96.21 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. -0.016 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:131 Resp: 560

Ion	Ratio	Lower	Upper
131	100		
133	40.2	65.1	125.1#

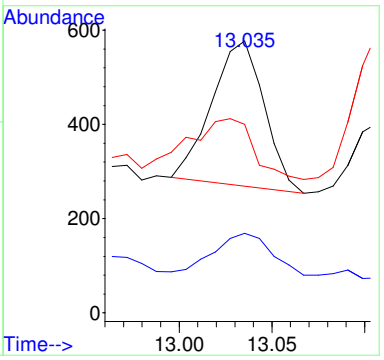


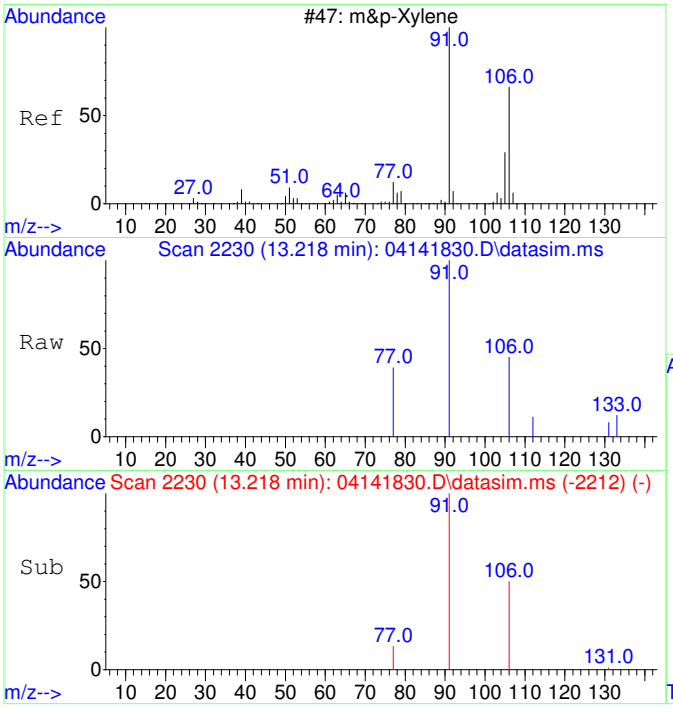


#18
Ethylbenzene
Concen: 21.16 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 596

Ion	Ratio	Lower	Upper
91	100		
106	38.9	1.8	61.8
77	59.2	0.0	38.7#

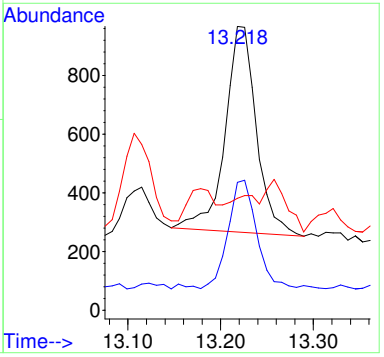


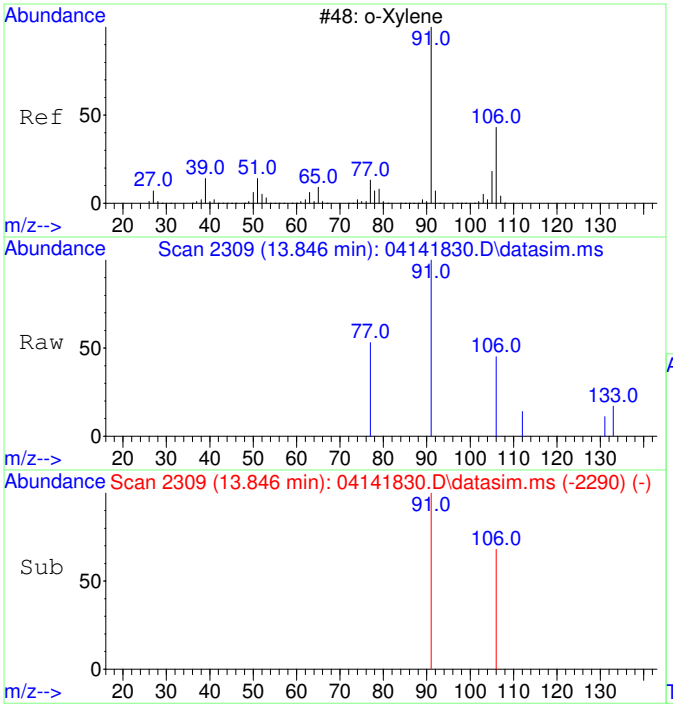


#19
m&p-Xylene
Concen: 74.77 ug/L
RT: 13.218 min Scan# 2230
Delta R.T. -0.008 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 1648

Ion	Ratio	Lower	Upper
91	100		
106	48.4	20.0	80.0
77	13.3	0.0	43.4

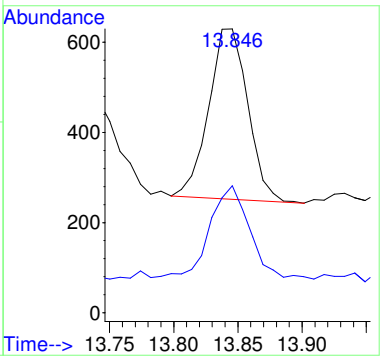


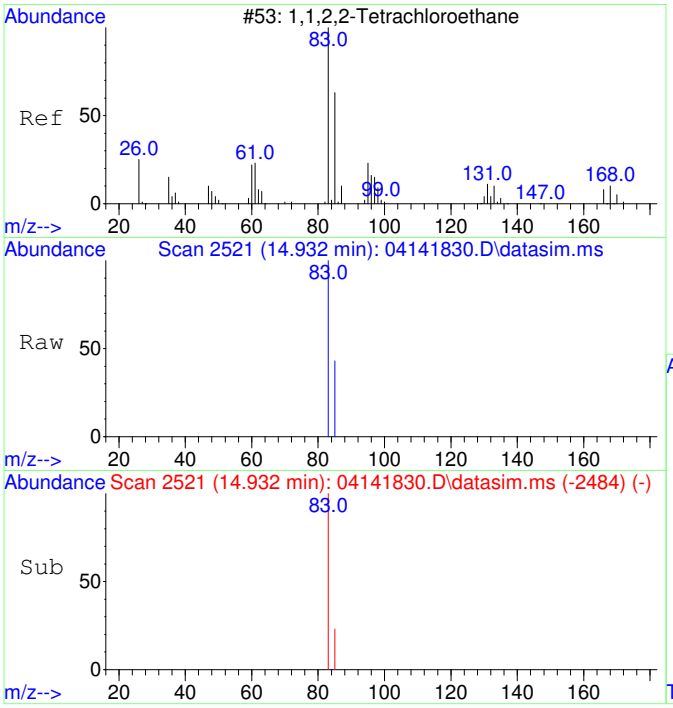


#20
o-Xylene
Concen: 34.23 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 795

Ion	Ratio	Lower	Upper
91	100		
106	57.5	16.9	76.9

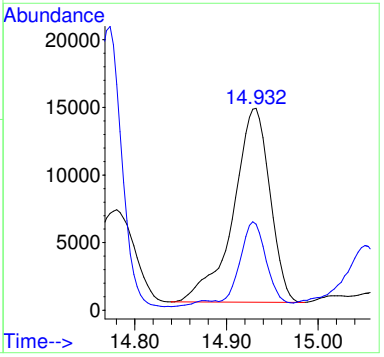


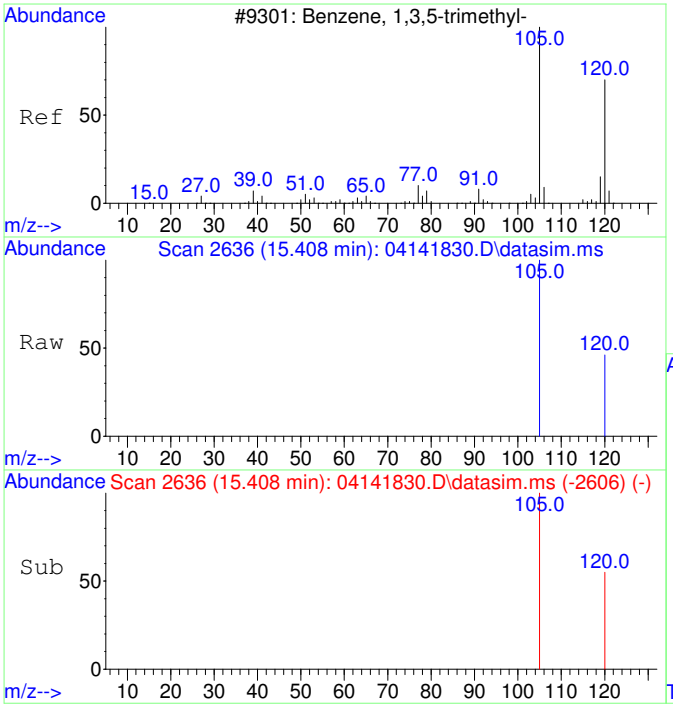


#21
1,1,2,2-Tetrachloroethane
Concen: 3703.73 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.011 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 83 Resp: 39925

Ion	Ratio	Lower	Upper
83	100		
85	29.2	34.3	94.3#

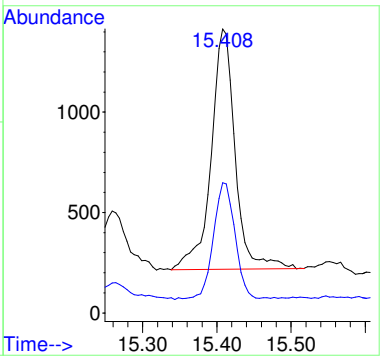


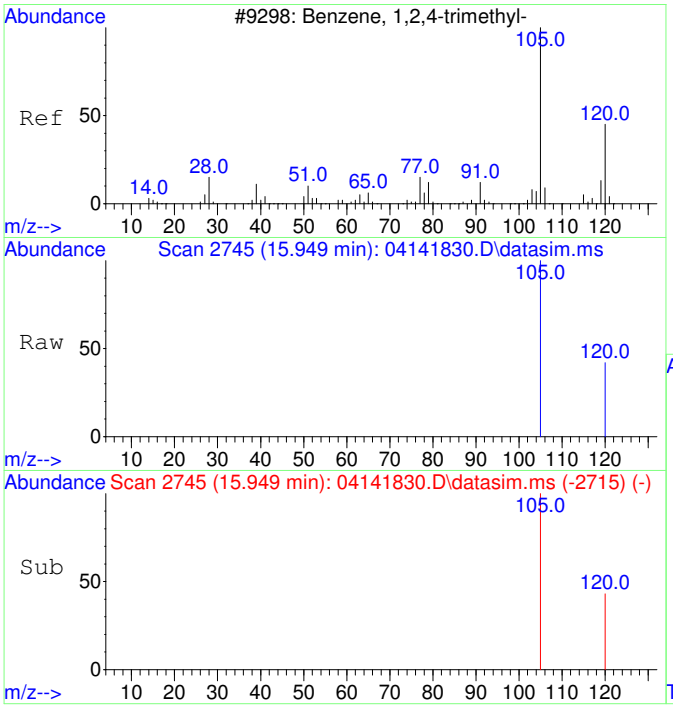


#22
1,3,5-Trimethylbenzene
Concen: 99.07 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:105 Resp: 2693

Ion	Ratio	Lower	Upper
105	100		
120	43.3	18.1	78.1

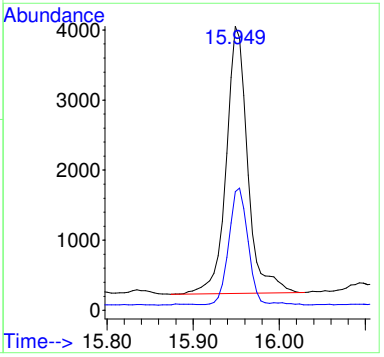


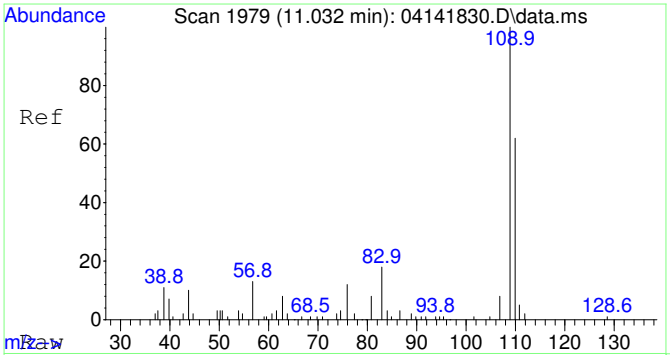


#23
1,2,4-Trimethylbenzene
Concen: 239.05 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:105 Resp: 6610

Ion	Ratio	Lower	Upper
105	100		
120	39.1	14.5	74.5

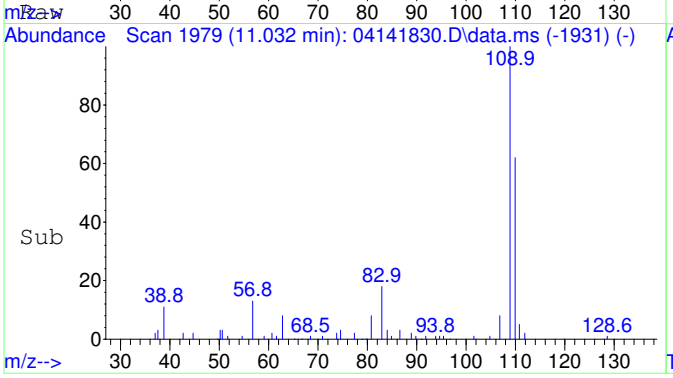


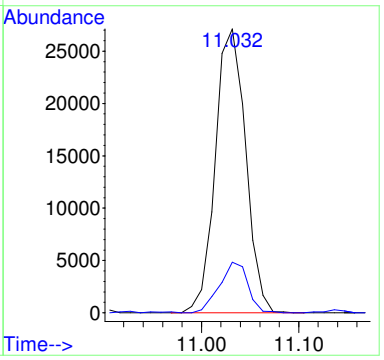


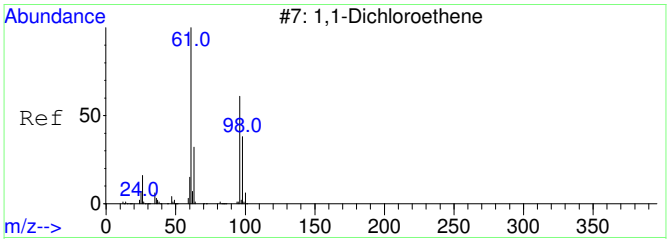
#25
2-Fluorotoluene SCAN
Concen: 5169.34 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:109 Resp: 58667

Ion	Ratio	Lower	Upper
109	100		
83	16.7	0.0	49.2



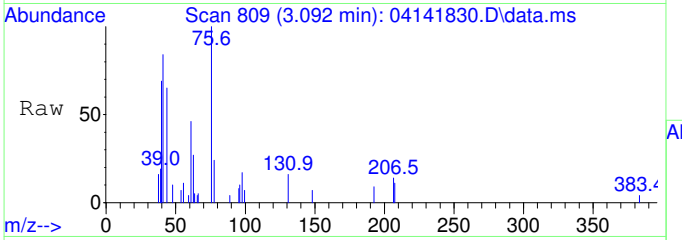


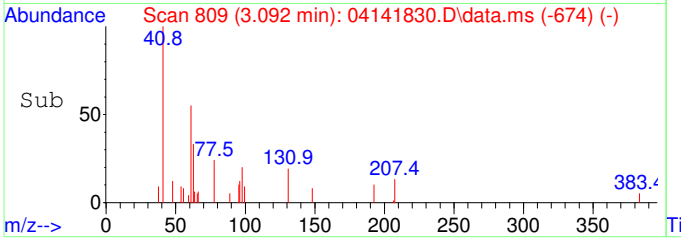


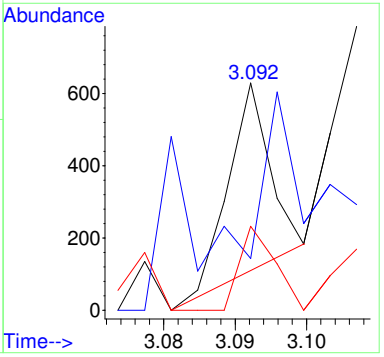
#26
1,1-Dichloroethene SCAN
Concen: 90.65 ug/L
RT: 3.092 min Scan# 809
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

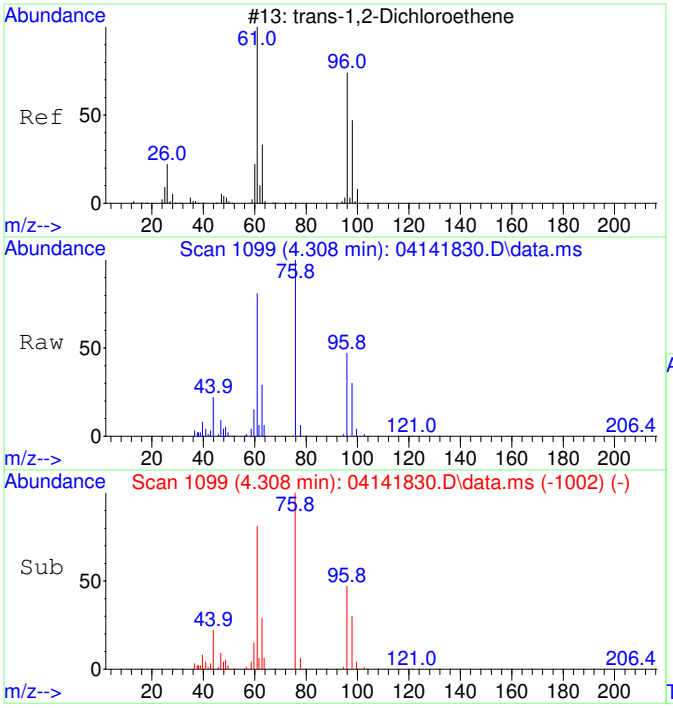
Tgt Ion: 61 Resp: 228

Ion	Ratio	Lower	Upper
61	100		
96	121.9	21.6	81.6#
98	35.1	7.5	67.5





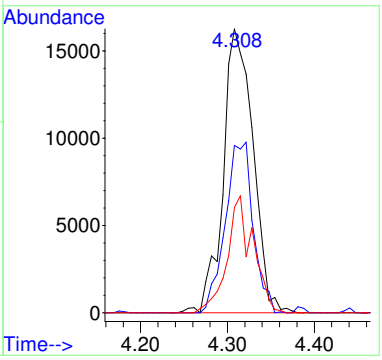


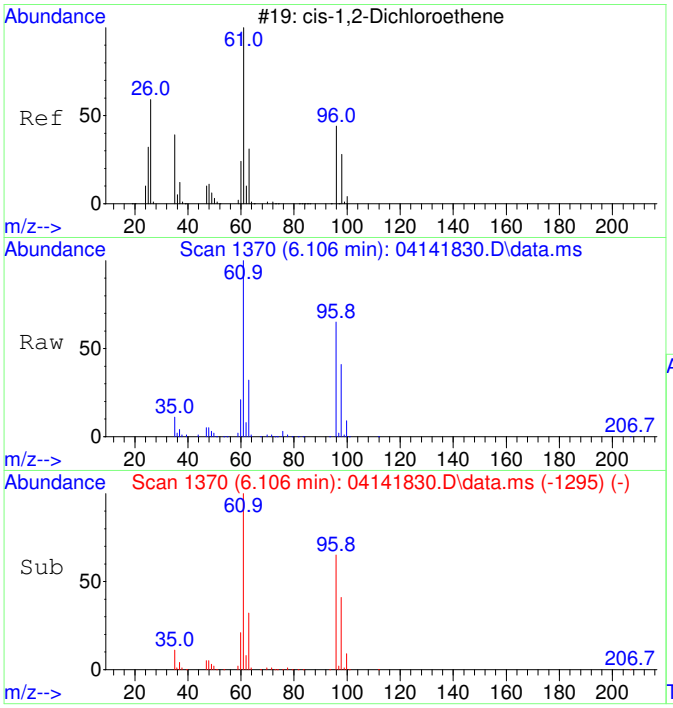


#27
trans-1,2-Dichloroethene SCAN
Concen: 15753.90 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 38826

Ion	Ratio	Lower	Upper
61	100		
96	56.3	51.8	111.8
98	35.7	22.7	82.7

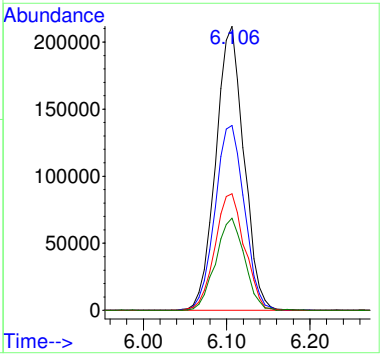


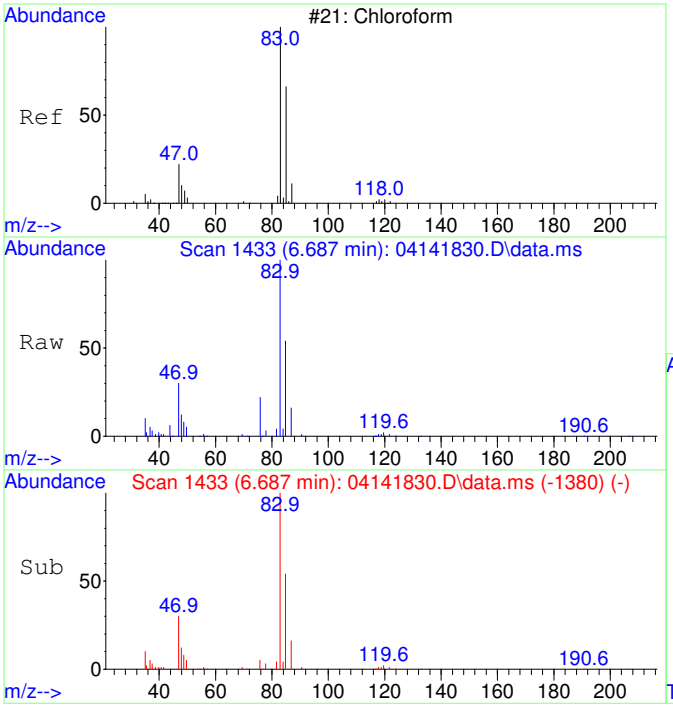


#29
cis-1,2-Dichloroethene SCAN
Concen: 168063.86 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 497493

Ion	Ratio	Lower	Upper
61	100		
96	68.0	49.4	109.4
98	43.4	9.5	69.5
63	33.0	0.0	60.0

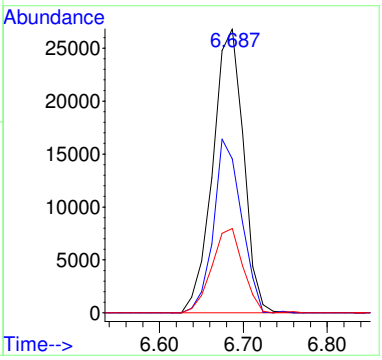


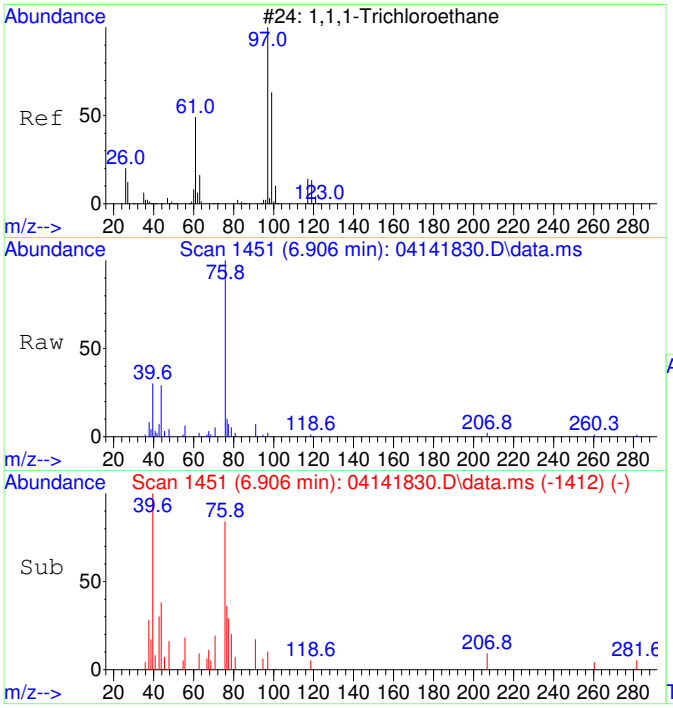


#30
Chloroform SCAN
Concen: 19030.64 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 83 Resp: 67969

Ion	Ratio	Lower	Upper
83	100		
85	55.7	47.8	107.8
47	30.3	8.2	68.2

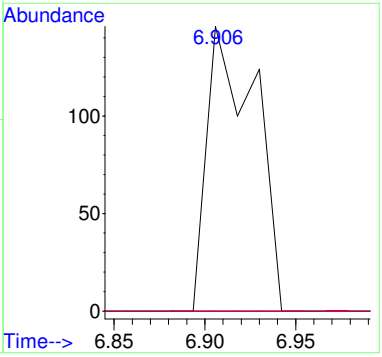


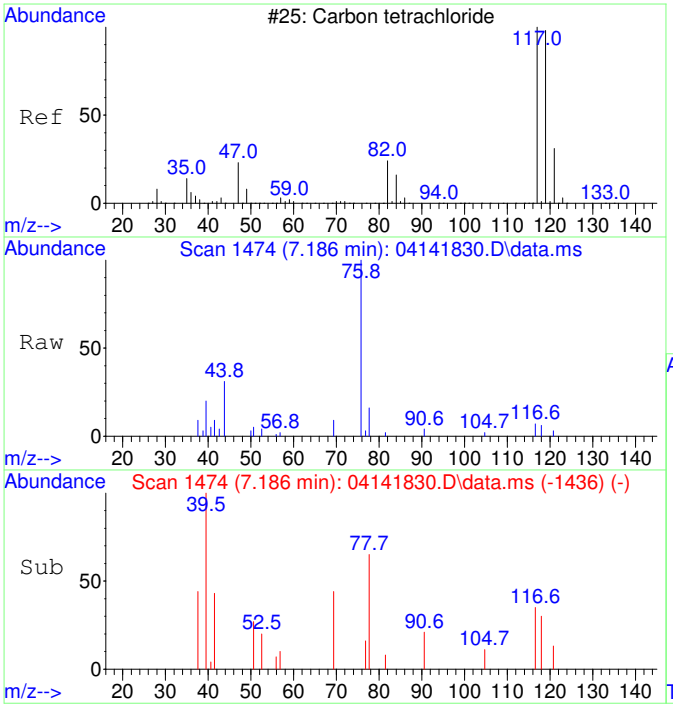


#31
1,1,1-Trichloroethane SCAN
Concen: 60.24 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.025 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 97 Resp: 270

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

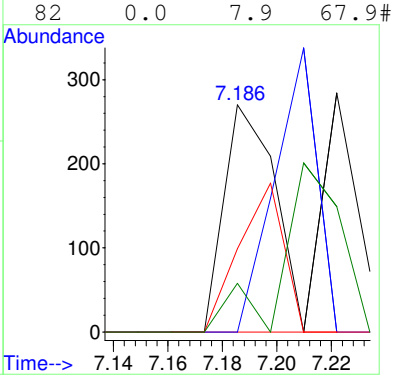


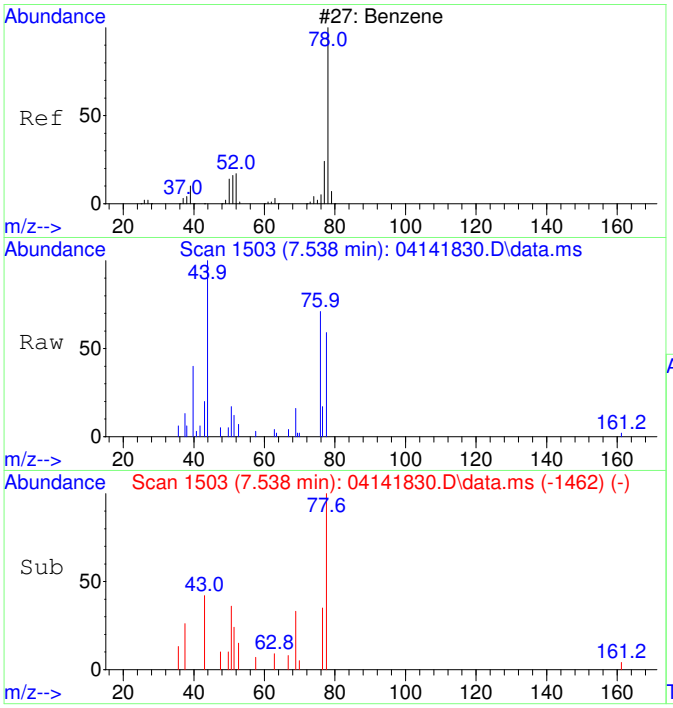


#32
Carbon tetrachloride SCAN
Concen: 108.57 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. -0.037 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:117 Resp: 350

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

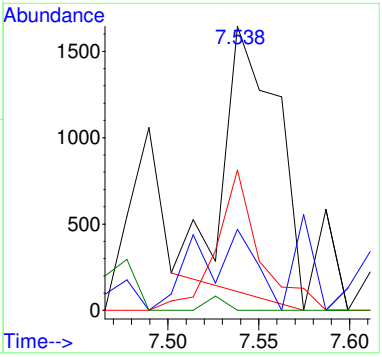


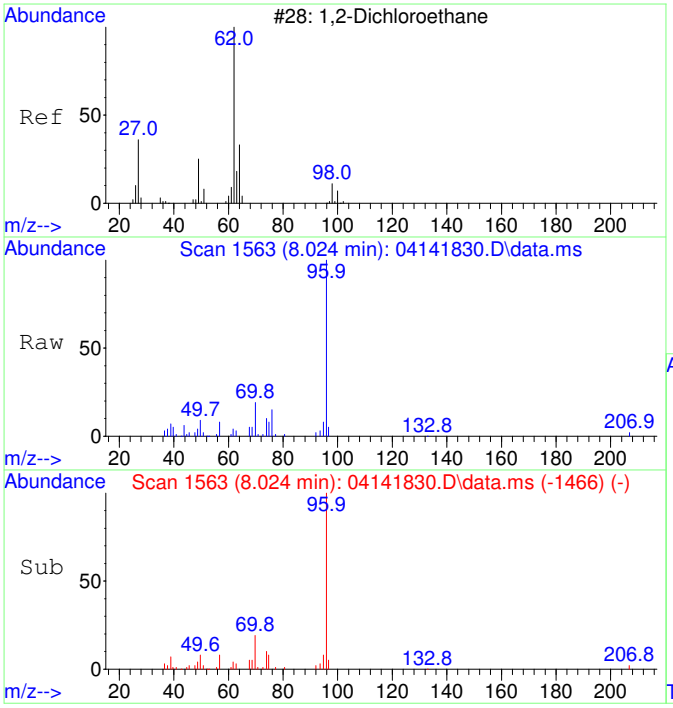


#33
Benzene SCAN
Concen: 322.36 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 78 Resp: 3150

Ion	Ratio	Lower	Upper
78	100		
77	32.8	5.4	65.4
51	42.5	0.0	47.2
52	1.9	0.0	47.4

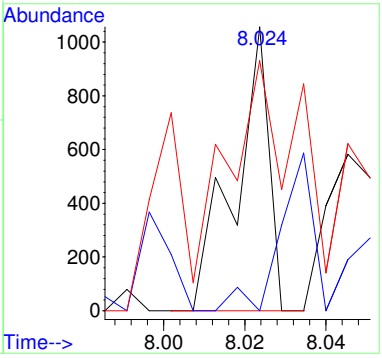


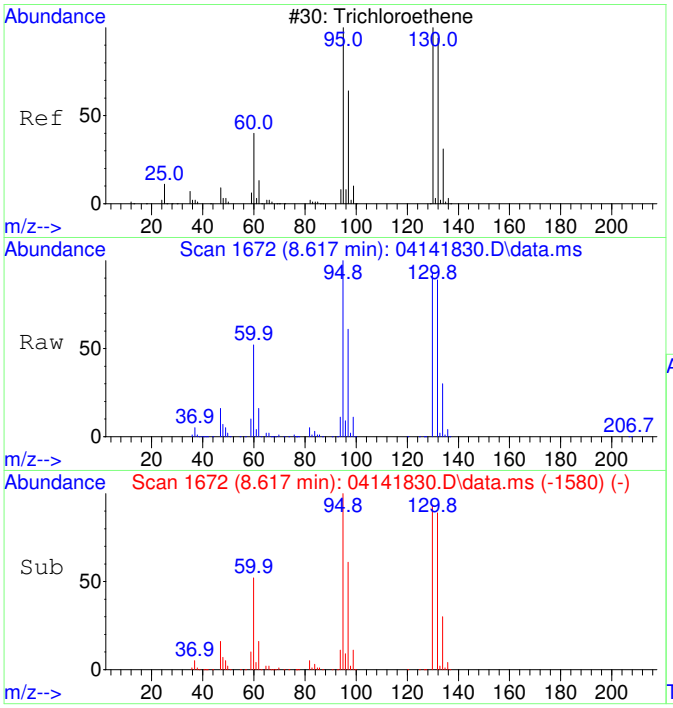


#34
1,2-Dichloroethane SCAN
Concen: 164.90 ug/L
RT: 8.024 min Scan# 1563
Delta R.T. 0.437 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 62 Resp: 611

Ion	Ratio	Lower	Upper
62	100		
64	77.7	4.4	64.4#
49	220.3	1.2	61.2#

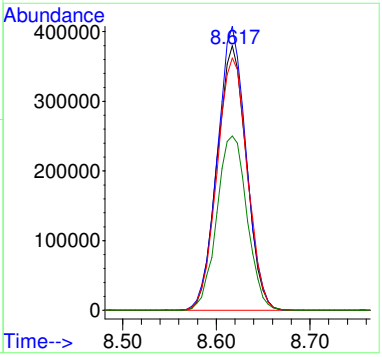


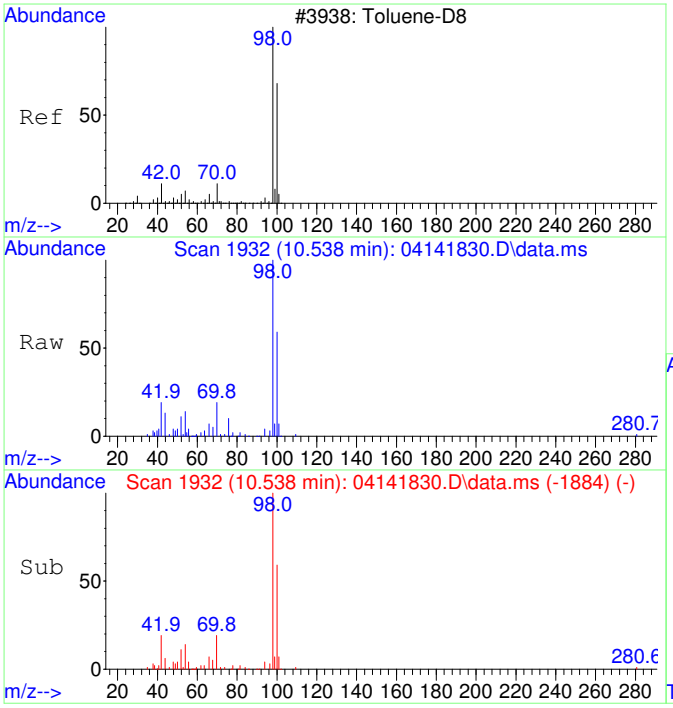


#35
Trichloroethene SCAN
Concen: 336348.35 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:130 Resp: 825767

Ion	Ratio	Lower	Upper
130	100		
95	105.2	71.3	131.3
132	98.1	75.1	135.1
97	67.7	41.3	101.3

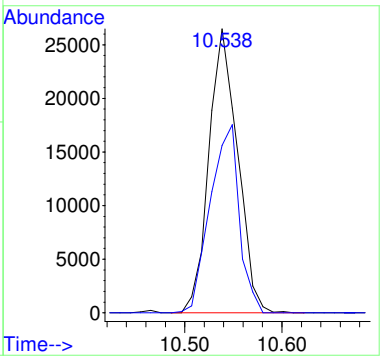


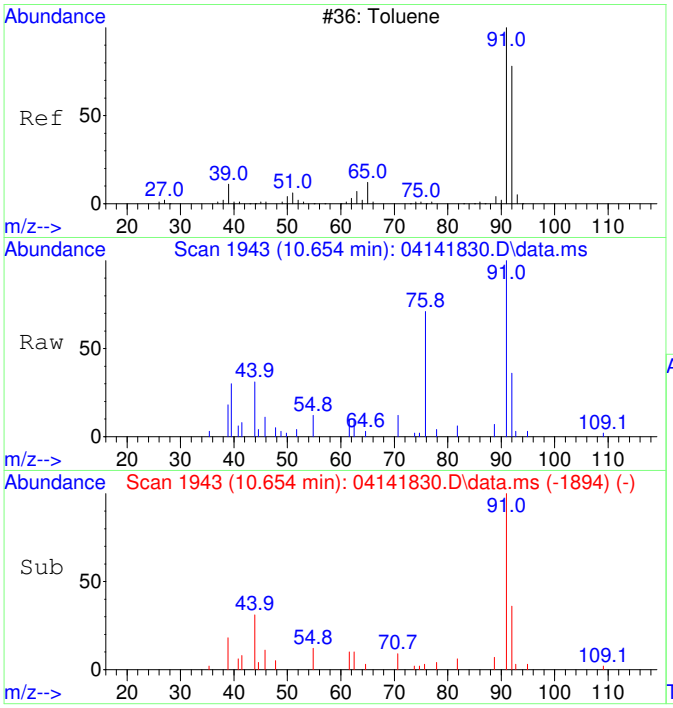


#36
Toluene-d8 SCAN
Concen: 5451.76 ug/L
RT: 10.538 min Scan# 1932
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 98 Resp: 54324

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.3	97.3

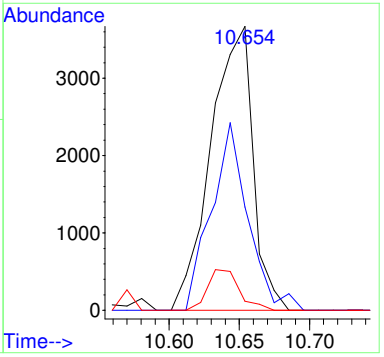


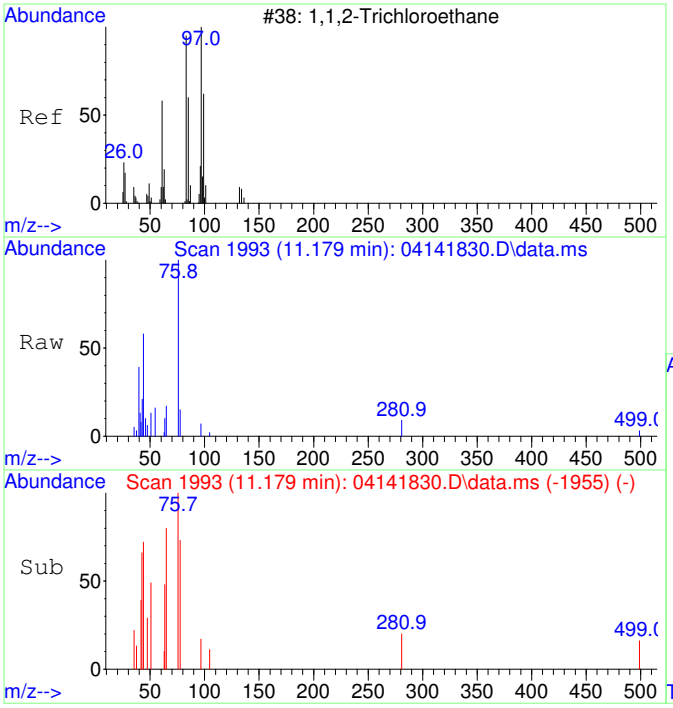


#37
Toluene SCAN
Concen: 689.24 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 7681

Ion	Ratio	Lower	Upper
91	100		
92	57.7	39.1	99.1
65	0.0	0.0	43.8

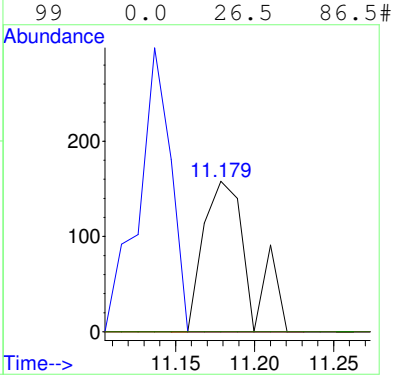


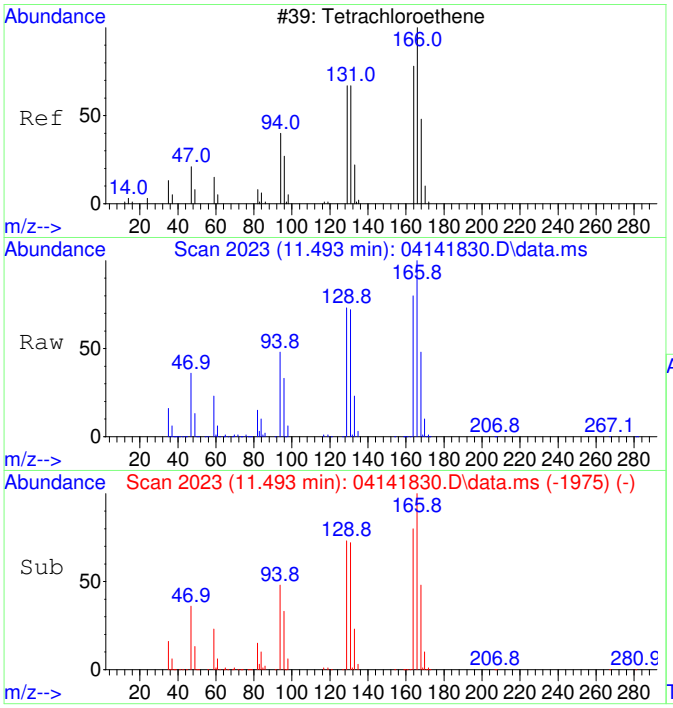


#38
1,1,2-Trichloroethane SCAN
Concen: 92.88 ug/L
RT: 11.179 min Scan# 1993
Delta R.T. -0.105 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 97 Resp: 317

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

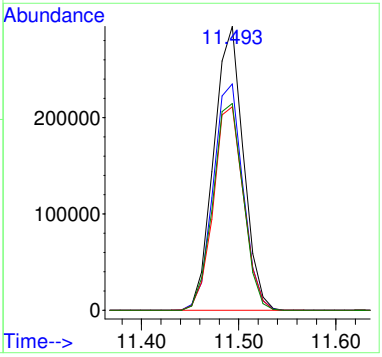


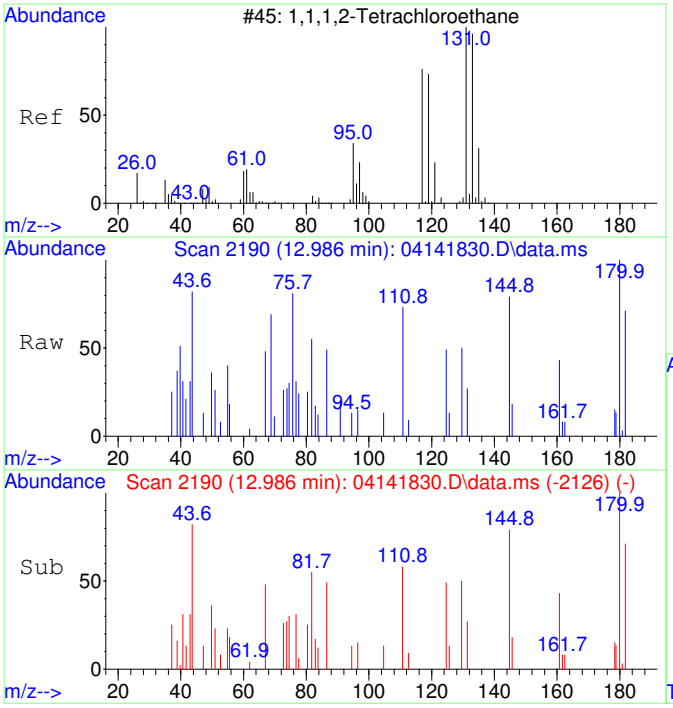


#39
Tetrachloroethene SCAN
Concen: 171149.08 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:166 Resp: 622008

Ion	Ratio	Lower	Upper
166	100		
164	80.7	49.8	109.8
131	73.2	42.0	102.0
129	74.5	30.1	90.1

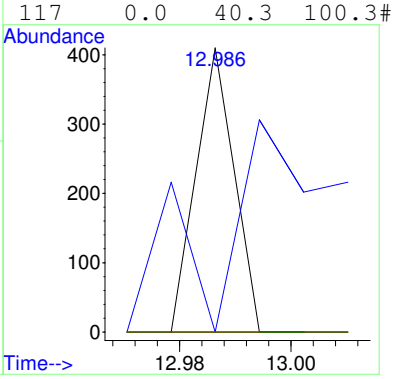


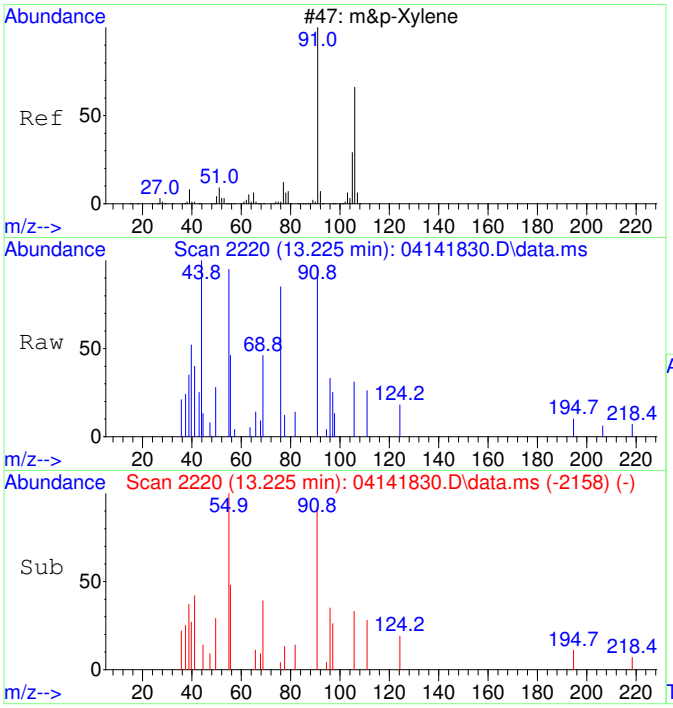


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 68.49 ug/L
RT: 12.986 min Scan# 2190
Delta R.T. 0.008 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:131 Resp: 195

Ion	Ratio	Lower	Upper
131	100		
133	229.7	78.7	138.7#
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

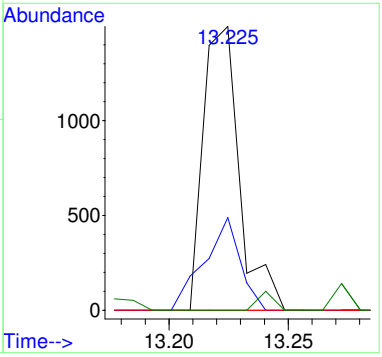


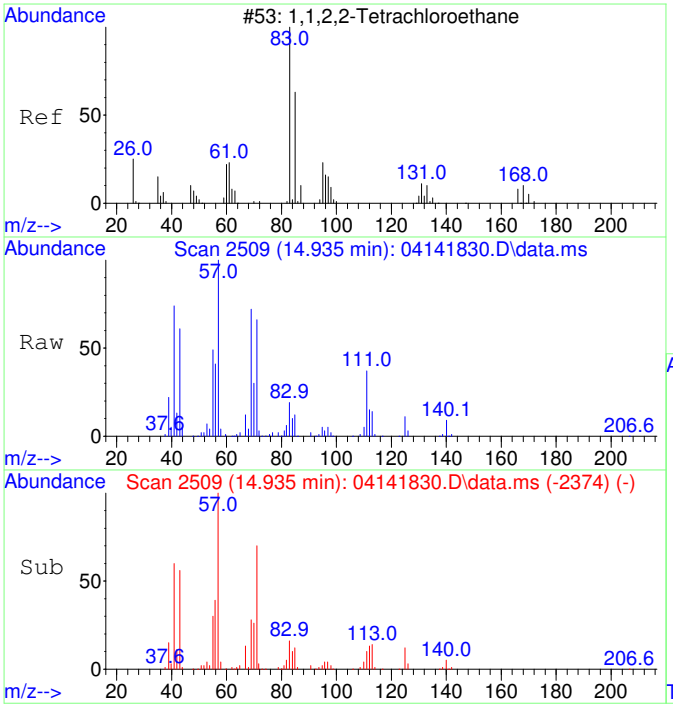


#43
m&p-Xylene SCAN
Concen: 66.84 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 1589

Ion	Ratio	Lower	Upper
91	100		
106	32.7	14.6	74.6
105	0.0	0.0	52.8
51	0.0	0.0	44.5

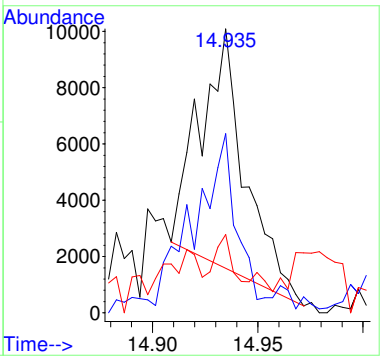


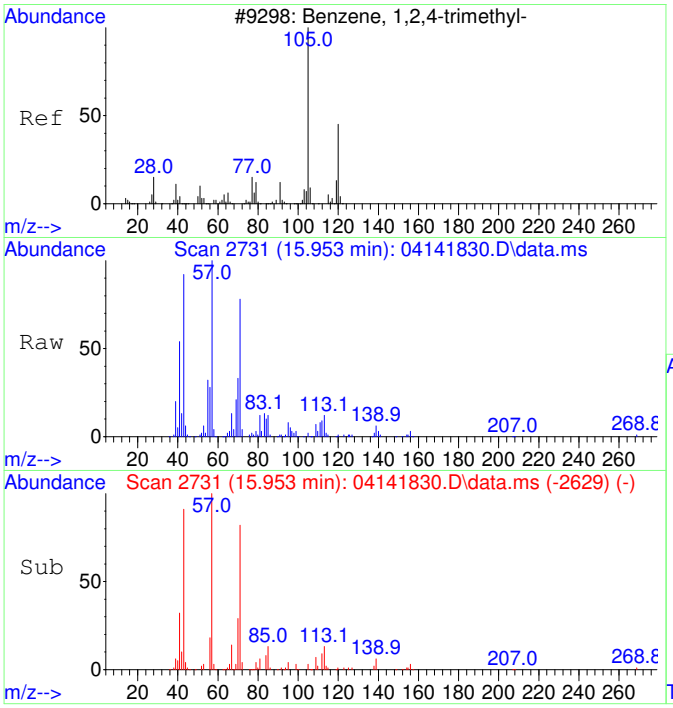


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 1812.91 ug/L
RT: 14.935 min Scan# 2509
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 83 Resp: 12215

Ion	Ratio	Lower	Upper
83	100		
85	63.7	32.4	92.4
95	8.2	0.0	41.2

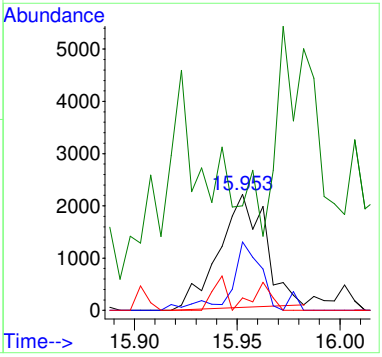


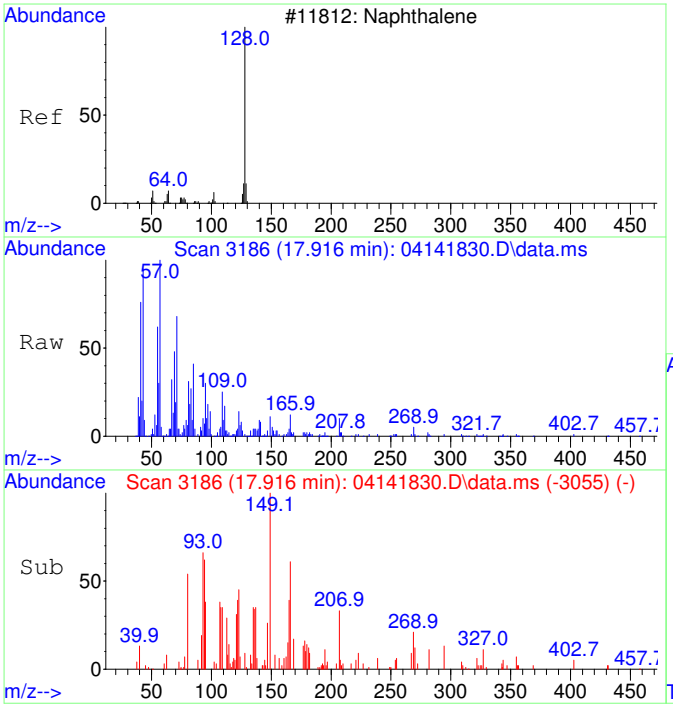


#47
1,2,4-Trimethylbenzene SCAN
Concen: 227.77 ug/L
RT: 15.953 min Scan# 2731
Delta R.T. 0.005 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:105 Resp: 3397

Ion	Ratio	Lower	Upper
105	100		
120	37.8	12.8	72.8
119	8.9	0.0	42.5
77	0.0	0.0	42.2

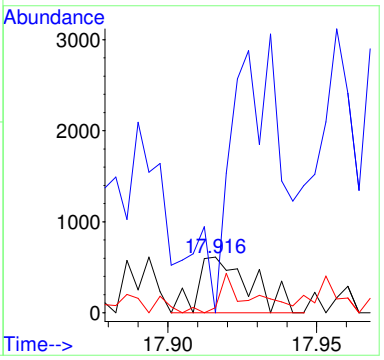


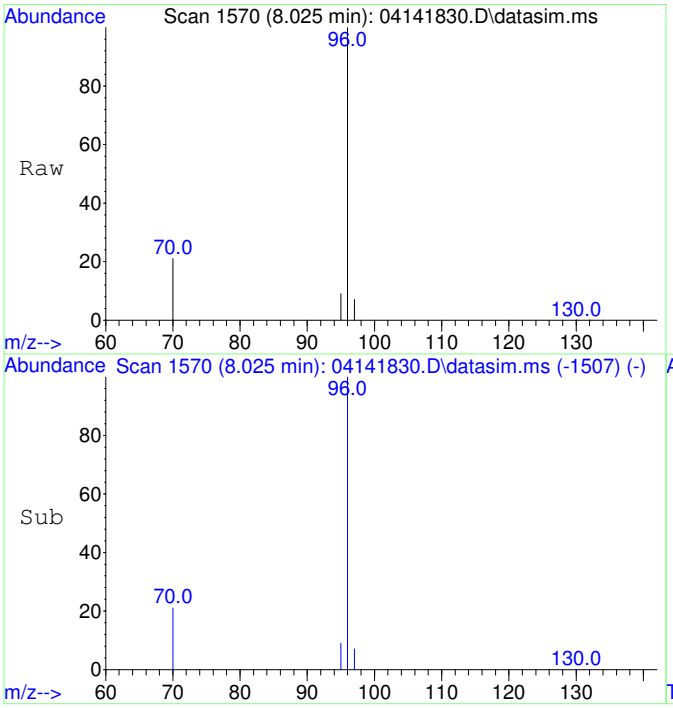


#48
Naphthalene SCAN
Concen: 31.84 ug/L
RT: 17.916 min Scan# 3186
Delta R.T. -0.015 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:128 Resp: 765

Ion	Ratio	Lower	Upper
128	100		
127	302.2	0.0	45.2#
129	28.9	0.0	42.0

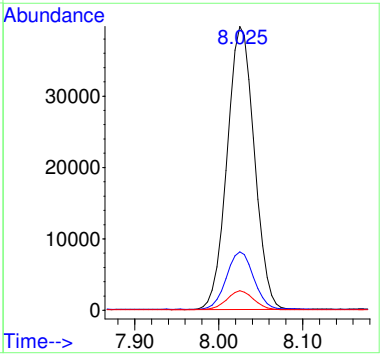




#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 96 Resp: 88934

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.6	0.0	36.7



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141830.D
Acq On : 14 Apr 2018 22:20
InstName : AG5975C
Operator : RH
Sample : 1804005-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

M.I. Performed By:
RH at 9:59 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:17 pm, Apr 16, 2018

Quant Time: Apr 16 09:40:18 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

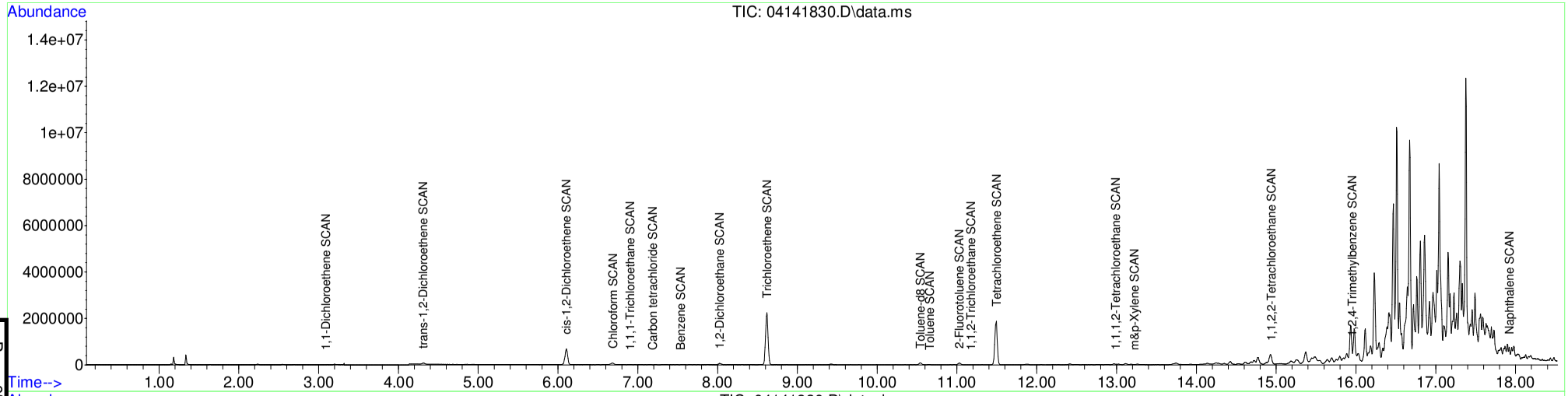
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	117453	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	88934	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	100184	5081.83 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.64%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	1993m	386.57 ug/L	
3] trans-1,2-Dichloroethene	4.309	61	61604	11693.93 ug/L	100
4] 1,1-Dichloroethane	5.066	63	367	52.32 ug/L	78
5] cis-1,2-Dichloroethene	6.101	61	800811	123405.53 ug/L	99 **OC**
6] Chloroform	6.676	83	109118	14297.77 ug/L	100
7] 1,1,1-Trichloroethane	6.931	97	551	73.94 ug/L	93
8] Carbon tetrachloride	7.211	117	1406	206.80 ug/L	94
9] Benzene	7.540	78	2155	114.54 ug/L	83
10] 1,2-Dichloroethane	7.588	62	200	30.49 ug/L	99
11] Trichloroethene	8.618	130	1518536	292935.35 ug/L	98 **OC**
13] Toluene	10.634	91	11844	477.33 ug/L	100
14] 1,1,2-Trichloroethane	11.222	97	152	27.73 ug/L #	7
15] Tetrachloroethene	11.495	166	1251163	183967.58 ug/L	98 **OC**
17] 1,1,1,2-Tetrachloroethane	12.964	131	560	96.21 ug/L #	43
18] Ethylbenzene	13.035	91	596	21.16 ug/L #	60
19] m&p-Xylene	13.218	91	1648	74.77 ug/L	98
20] o-Xylene	13.846	91	795	34.23 ug/L	84
21] 1,1,2,2-Tetrachloroethane	14.932	83	39925	3703.73 ug/L #	55
22] 1,3,5-Trimethylbenzene	15.408	105	2693	99.07 ug/L	93
23] 1,2,4-Trimethylbenzene	15.949	105	6610	239.05 ug/L	92
25) 2-Fluorotoluene SCAN	11.032	109	58667	5169.34 ug/L	94
26) 1,1-Dichloroethene SCAN	3.092	61	228	90.65 ug/L #	40
27) trans-1,2-Dichloroethe...	4.308	61	38826	15753.90 ug/L	73
29) cis-1,2-Dichloroethene...	6.106	61	497493	168063.86 ug/L	90
30) Chloroform SCAN	6.687	83	67969	19030.64 ug/L	79
31) 1,1,1-Trichloroethane ...	6.906	97	270	60.24 ug/L #	29
32) Carbon tetrachloride SCAN	7.186	117	350	108.57 ug/L #	22
33) Benzene SCAN	7.538	78	3150	322.36 ug/L	75
34) 1,2-Dichloroethane SCAN	8.024	62	611	164.90 ug/L #	1
35) Trichloroethene SCAN	8.617	130	825767	336348.35 ug/L	95
36) Toluene-d8 SCAN	10.538	98	54324	5451.76 ug/L	100
37) Toluene SCAN	10.654	91	7681	689.24 ug/L #	83
38) 1,1,2-Trichloroethane ...	11.179	97	317	92.88 ug/L #	17
39) Tetrachloroethene SCAN	11.493	166	622008	171149.08 ug/L	94
41) 1,1,1,2-Tetrachloroeth...	12.986	131	195	68.49 ug/L #	1
43) m&p-Xylene SCAN	13.225	91	1589	66.84 ug/L #	71
45) 1,1,2,2-Tetrachloroeth...	14.935	83	12215	1812.91 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.953	105	3397	227.77 ug/L #	88
48) Naphthalene SCAN	17.916	128	765	31.84 ug/L #	1

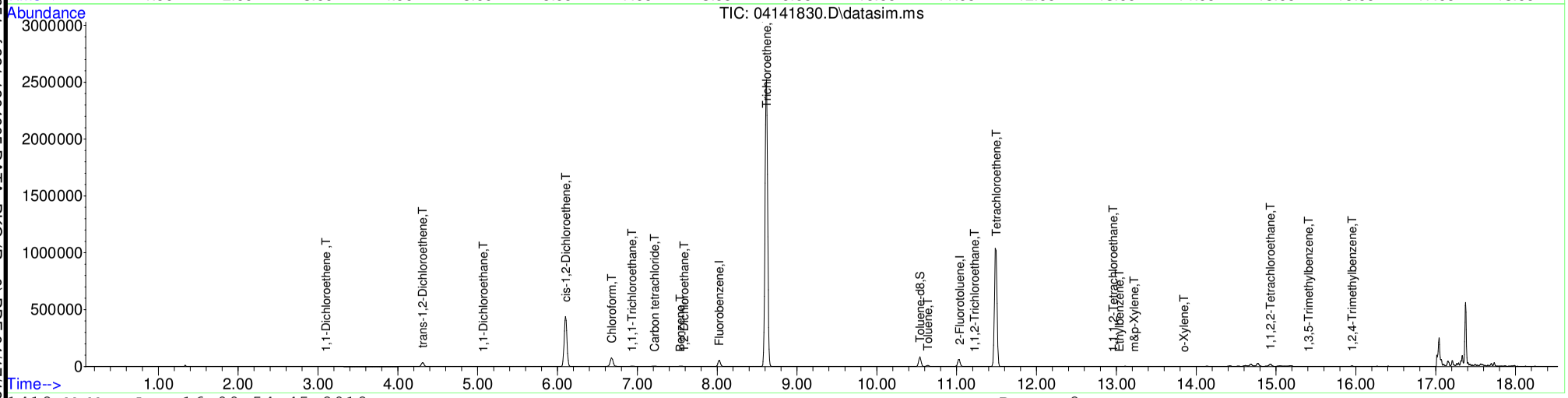
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141830.D
Acq On : 14 Apr 2018 22:20
InstName : AG5975C
Operator : RH
Sample : 1804005-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 16 09:40:18 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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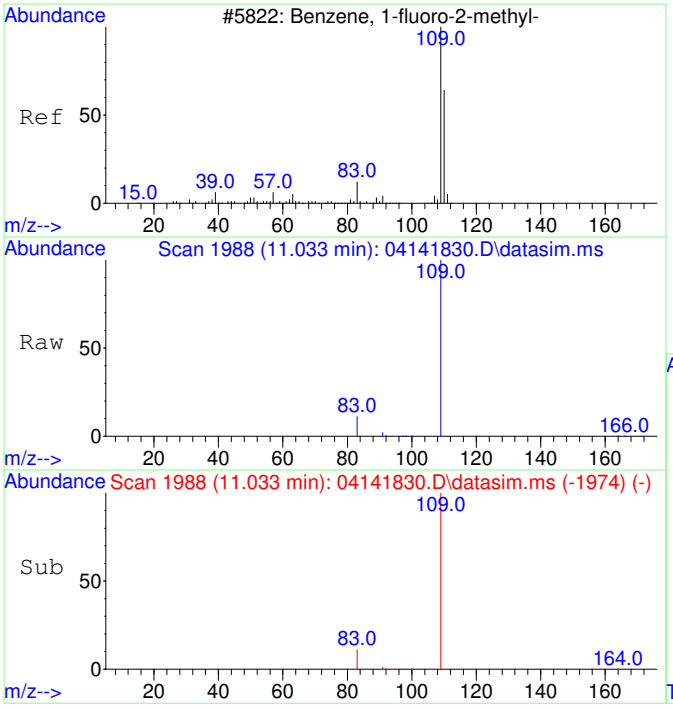
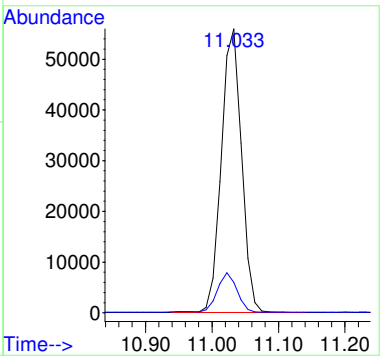
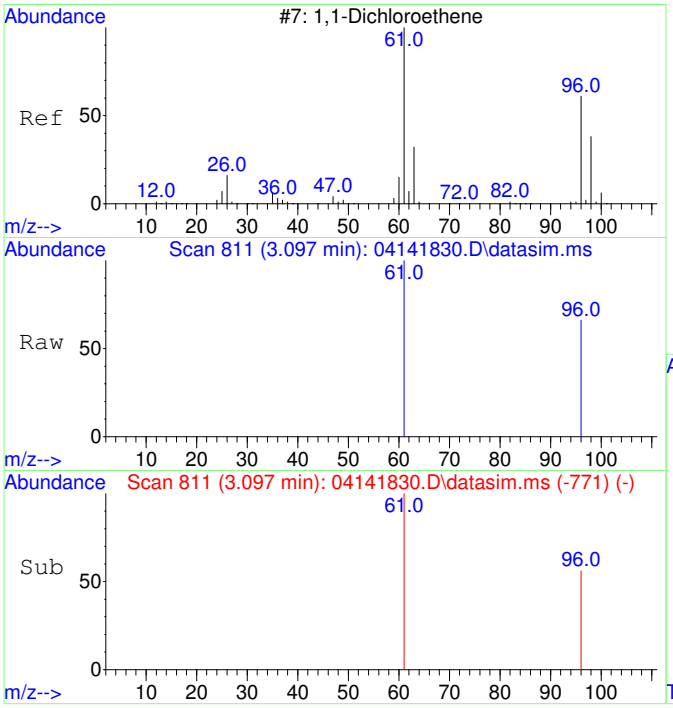


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:109 Resp: 117453

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	44.4

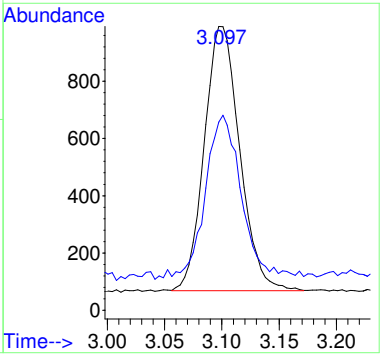


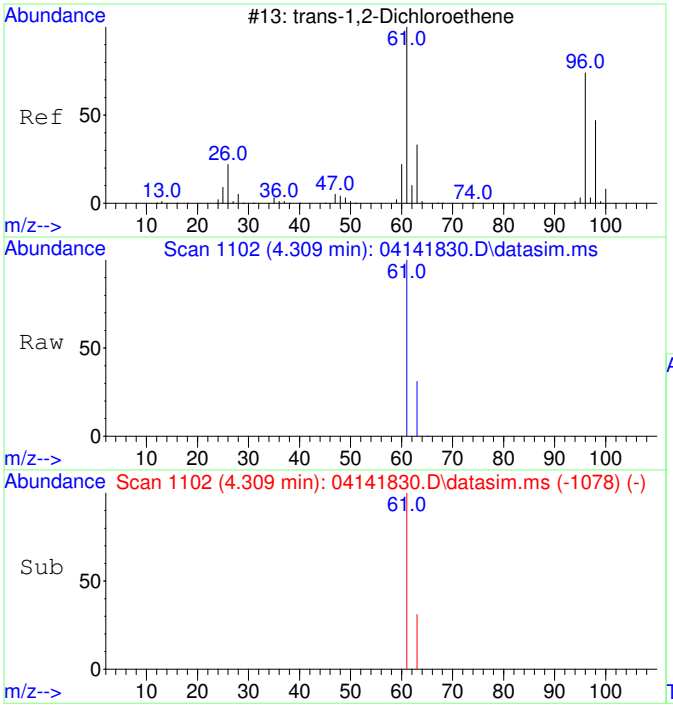


#2
1,1-Dichloroethene
Concen: 386.57 ug/L m
RT: 3.097 min Scan# 811
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 1993

Ion	Ratio	Lower	Upper
61	100		
96	59.2	26.1	86.1

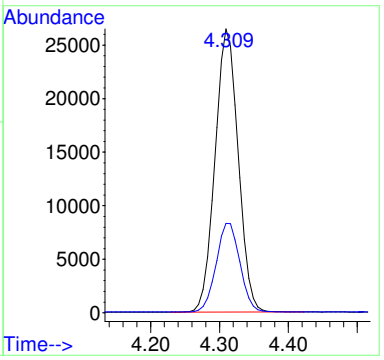


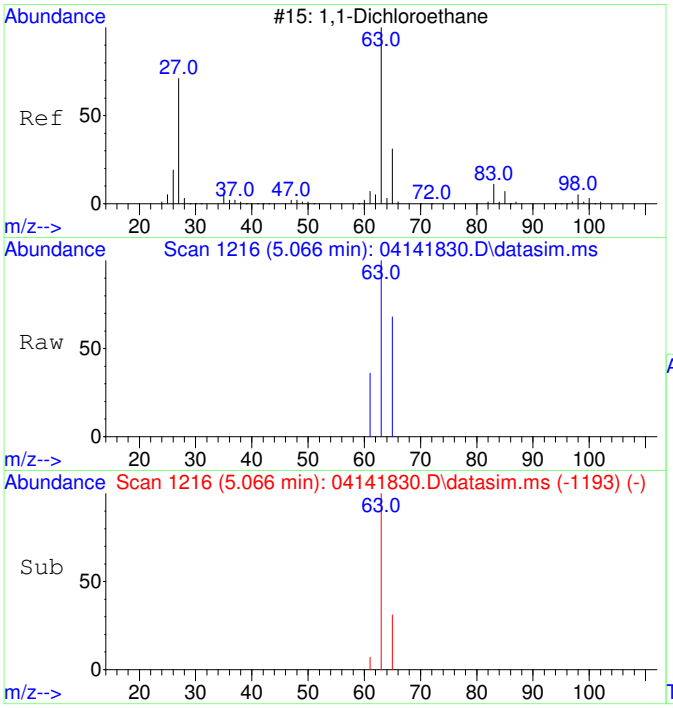


#3
trans-1,2-Dichloroethene
Concen: 11693.93 ug/L
RT: 4.309 min Scan# 1102
Delta R.T. 0.006 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 61604

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.0	62.0

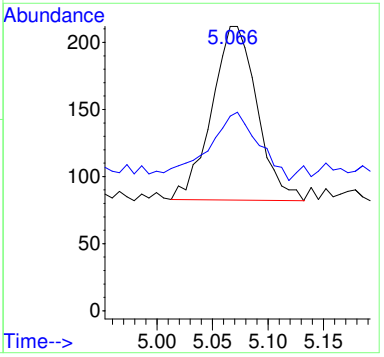


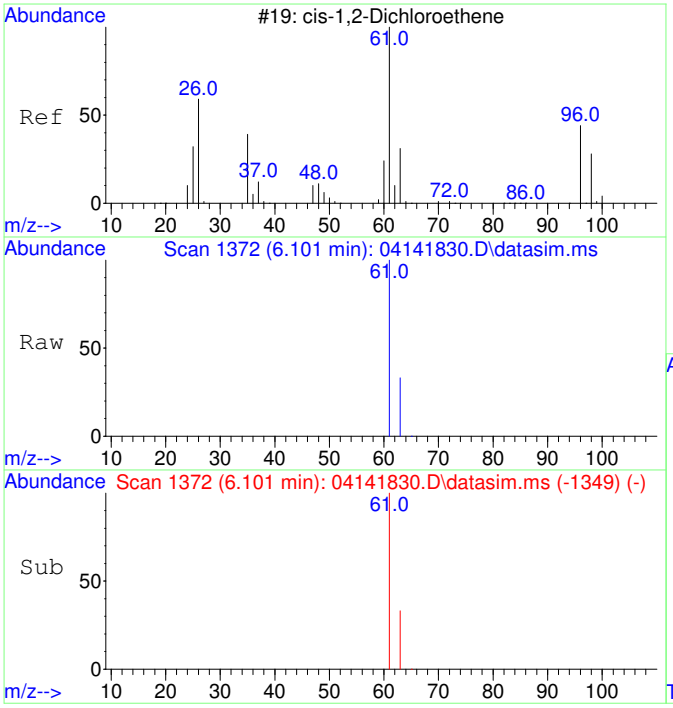


#4
1,1-Dichloroethane
Concen: 52.32 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 63 Resp: 367

Ion	Ratio	Lower	Upper
63	100		
65	43.9	1.8	61.8

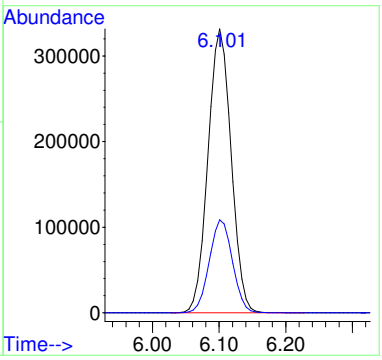


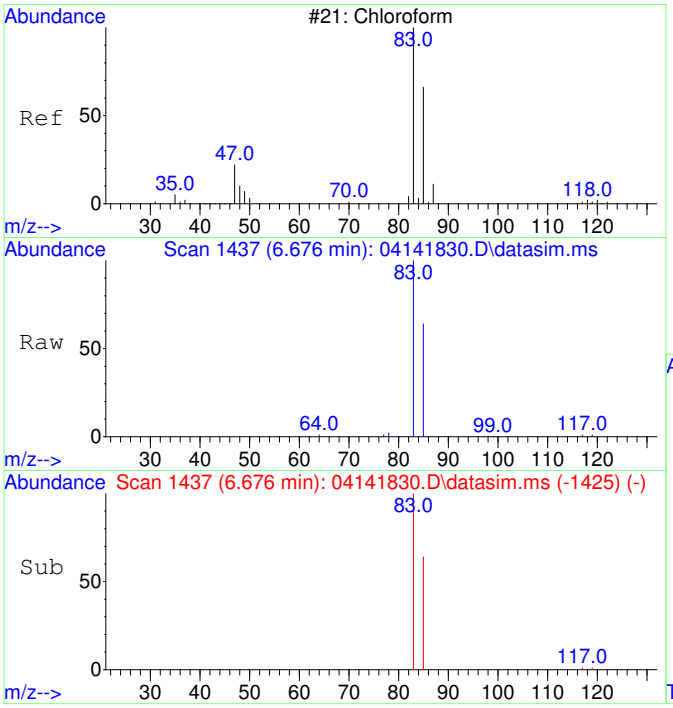


#5
cis-1,2-Dichloroethene
Concen: 123405.53 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 800811

Ion	Ratio	Lower	Upper
61	100		
63	32.7	2.0	62.0

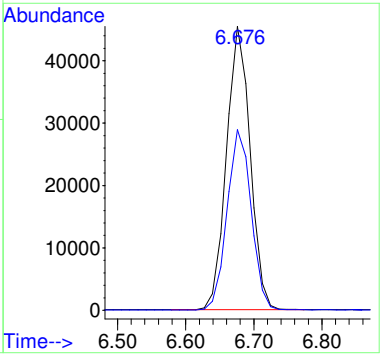


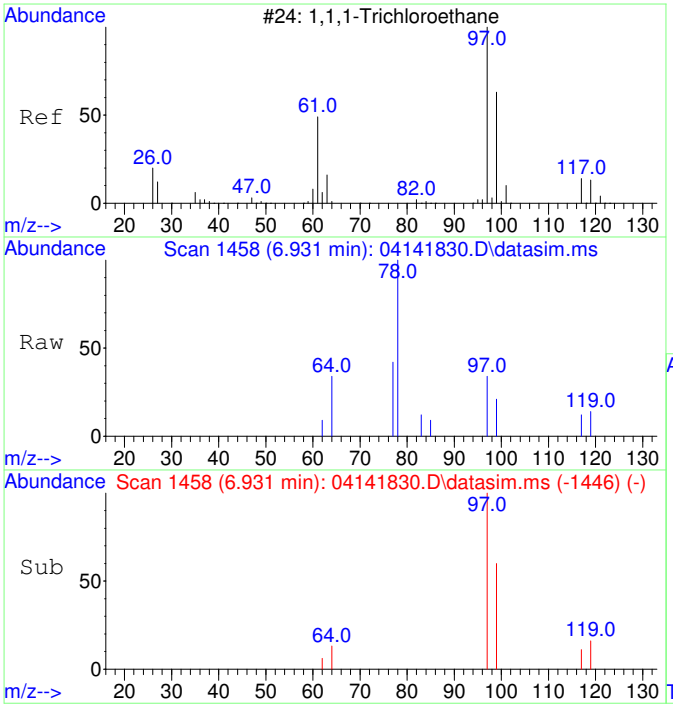


#6
Chloroform
Concen: 14297.77 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 83 Resp: 109118

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.2	94.2

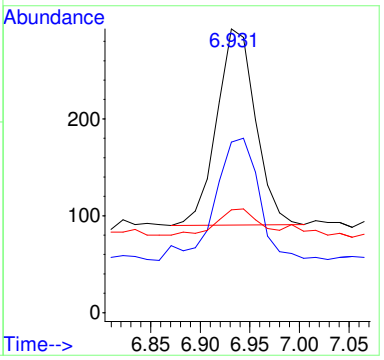


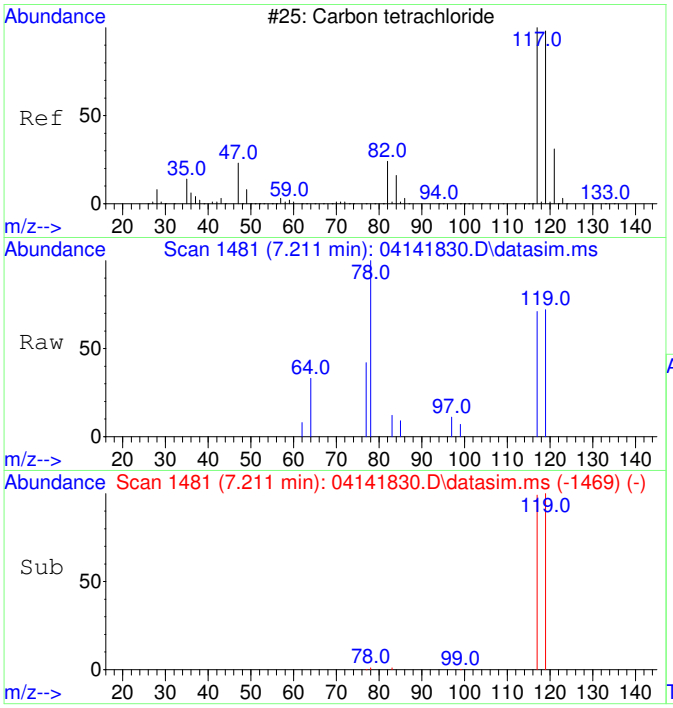


#7
1,1,1-Trichloroethane
Concen: 73.94 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 97 Resp: 551

Ion	Ratio	Lower	Upper
97	100		
99	70.2	34.5	94.5
117	14.2	0.0	42.6

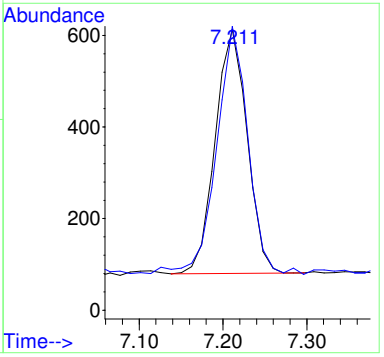


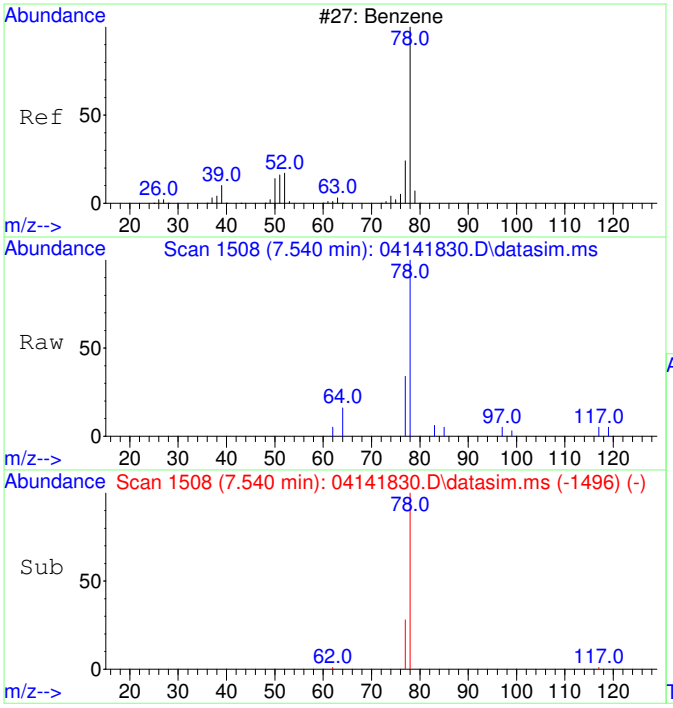


#8
Carbon tetrachloride
Concen: 206.80 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:117 Resp: 1406

Ion	Ratio	Lower	Upper
117	100		
119	100.0	64.5	124.5

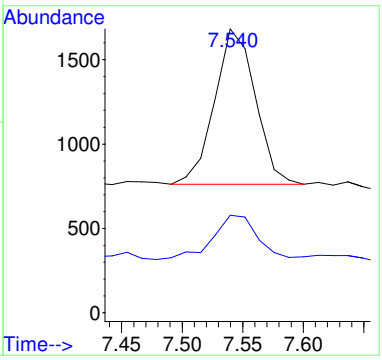


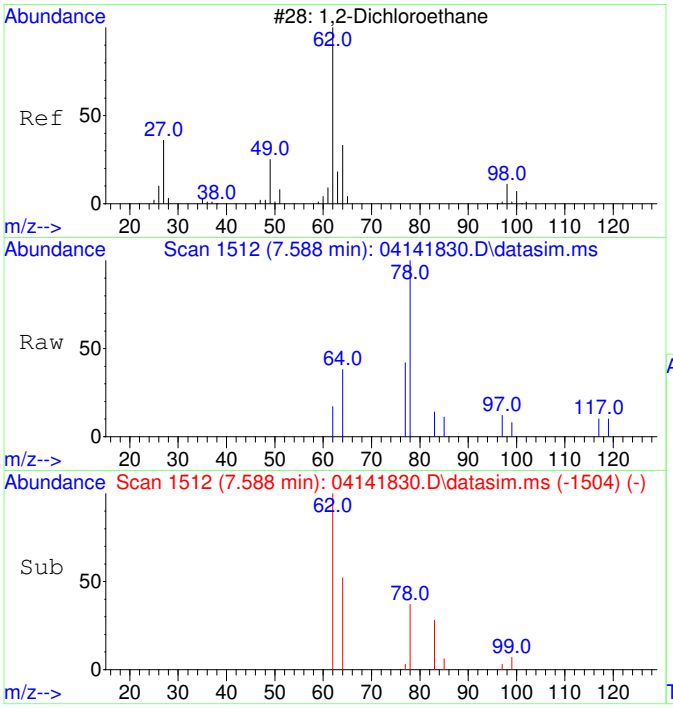


#9
Benzene
Concen: 114.54 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 78 Resp: 2155

Ion	Ratio	Lower	Upper
78	100		
77	32.1	0.0	53.6

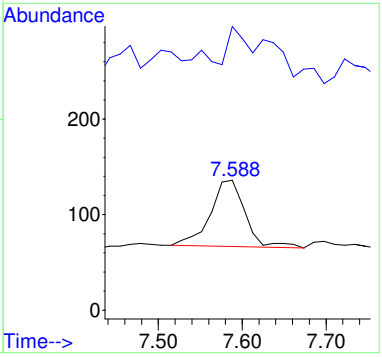


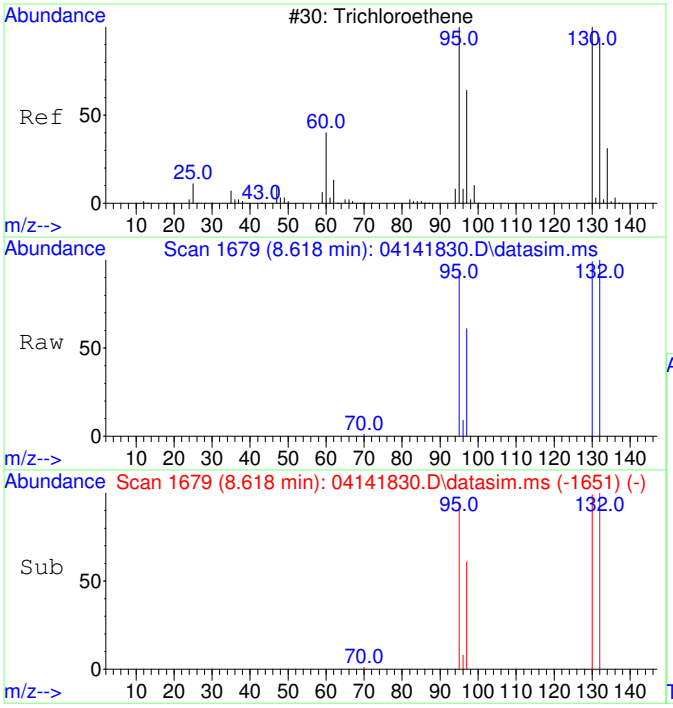


#10
1,2-Dichloroethane
Concen: 30.49 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 62 Resp: 200

Ion	Ratio	Lower	Upper
62	100		
64	31.5	1.8	61.8

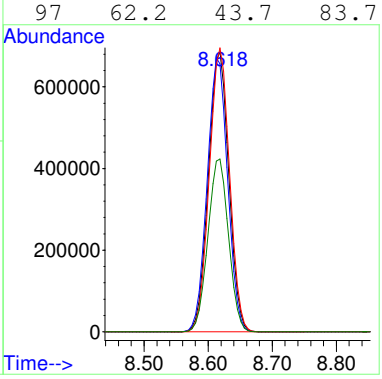


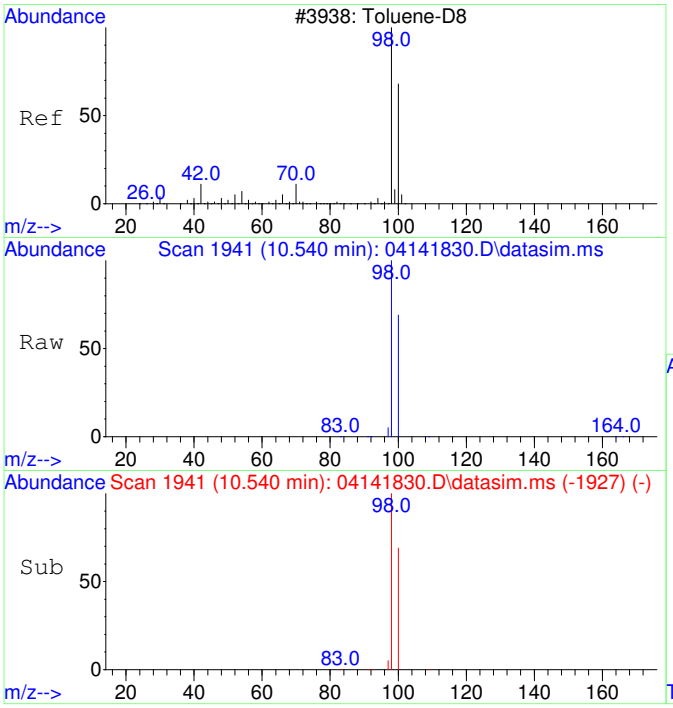


#11
Trichloroethene
Concen: 292935.35 ug/L
RT: 8.618 min Scan# 1679
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:130 Resp: 1518536

Ion	Ratio	Lower	Upper
130	100		
95	97.9	68.8	128.8
132	100.6	78.6	118.6
97	62.2	43.7	83.7

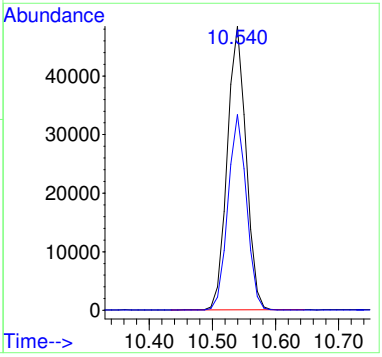


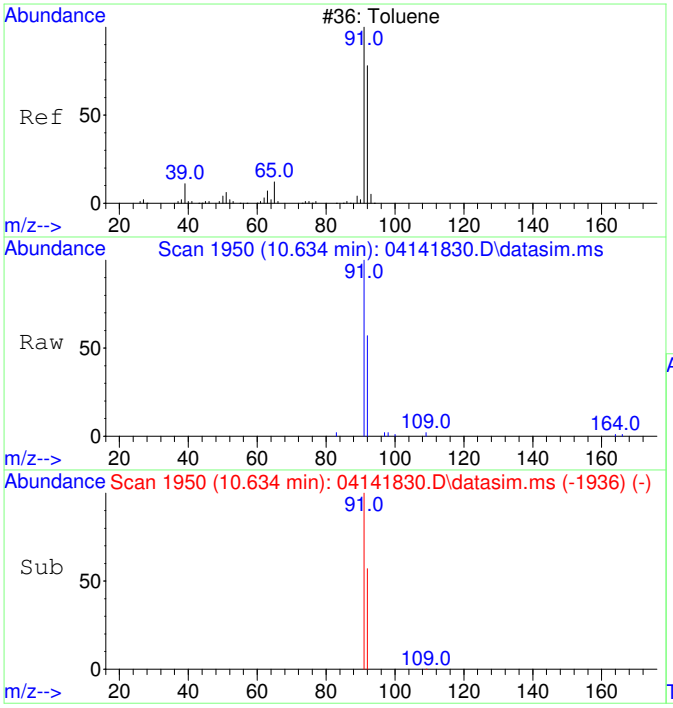


#12
Toluene-d8
Concen: 5081.83 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 98 Resp: 100184

Ion	Ratio	Lower	Upper
98	100		
100	67.9	36.9	96.9

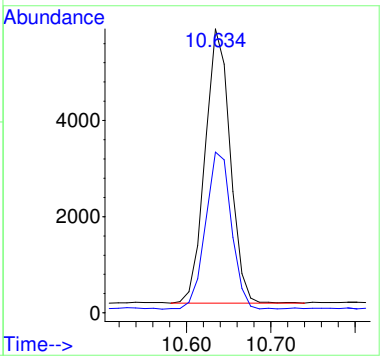


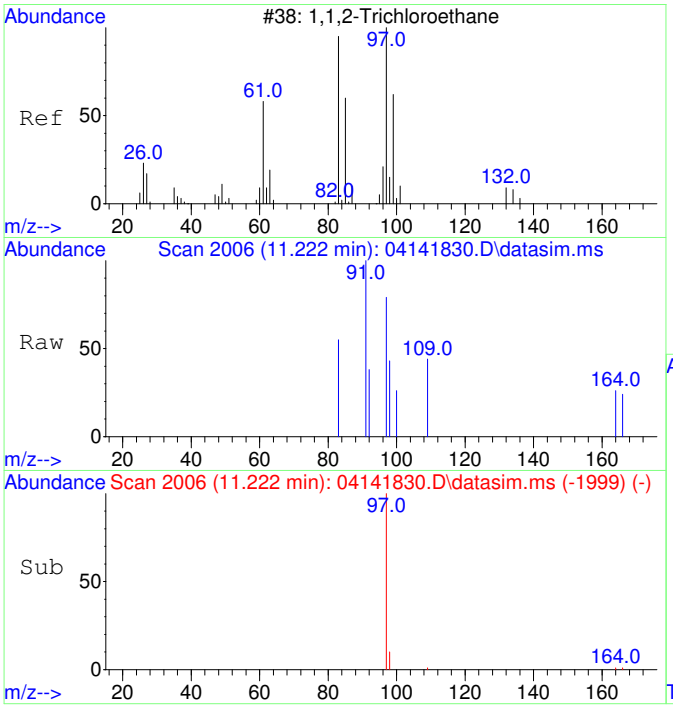


#13
Toluene
Concen: 477.33 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 11844

Ion	Ratio	Lower	Upper
91	100		
92	58.7	28.8	88.8

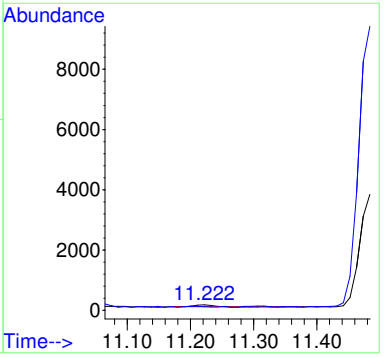


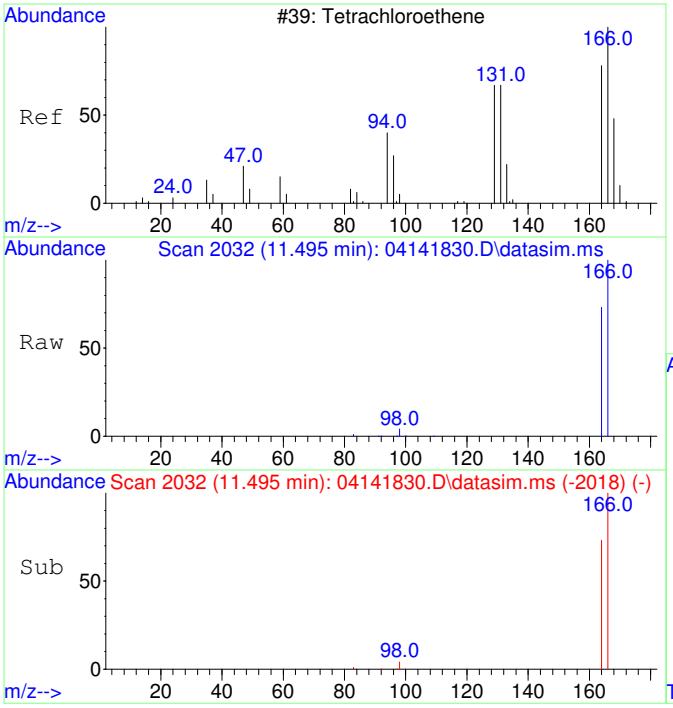


#14
1,1,2-Trichloroethane
Concen: 27.73 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.074 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 97 Resp: 152

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.3	114.3#

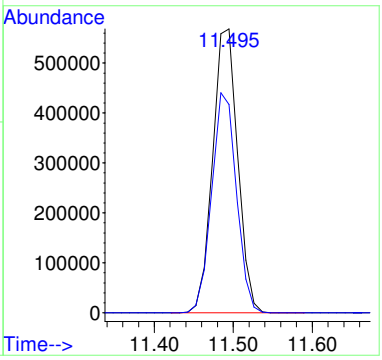


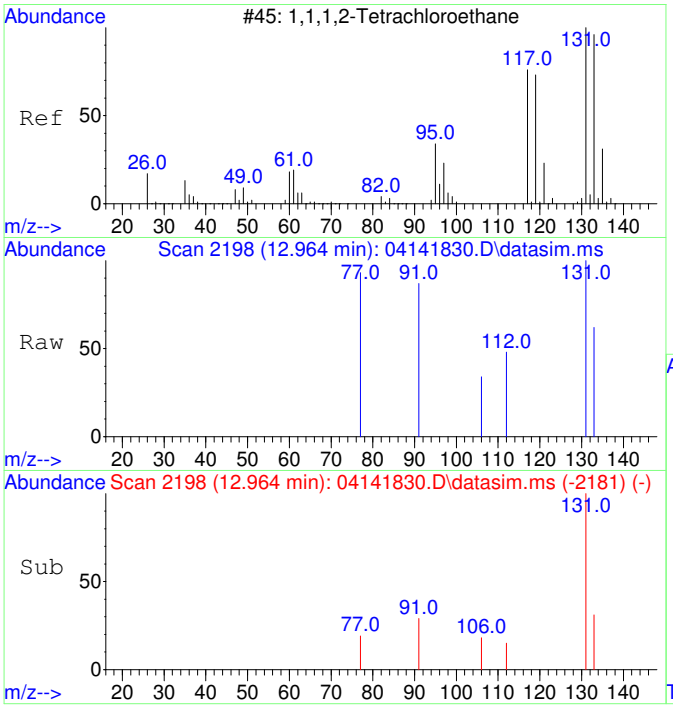


#15
Tetrachloroethene
Concen: 183967.58 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:166 Resp: 1251163

Ion	Ratio	Lower	Upper
166	100		
164	76.6	48.0	108.0

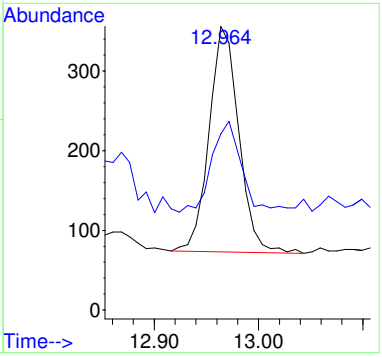


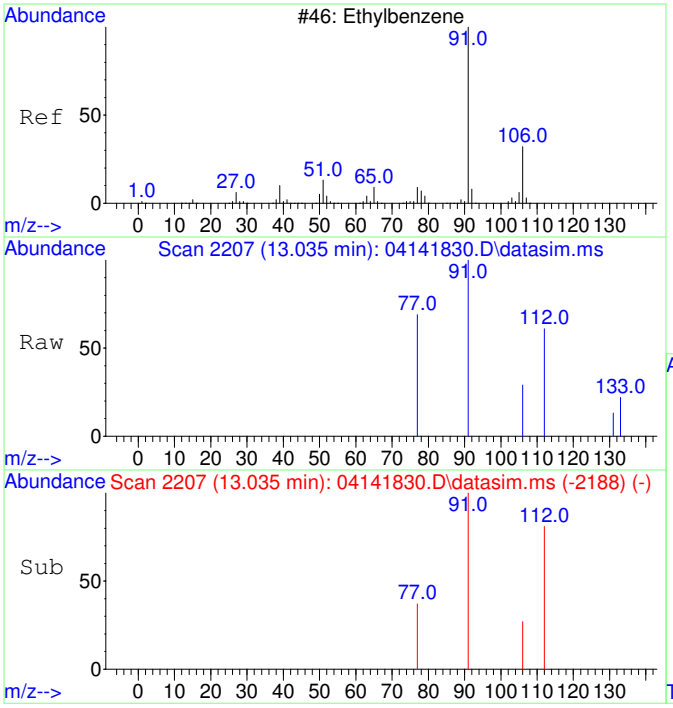


#17
1,1,1,2-Tetrachloroethane
Concen: 96.21 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. -0.016 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:131 Resp: 560

Ion	Ratio	Lower	Upper
131	100		
133	40.2	65.1	125.1#

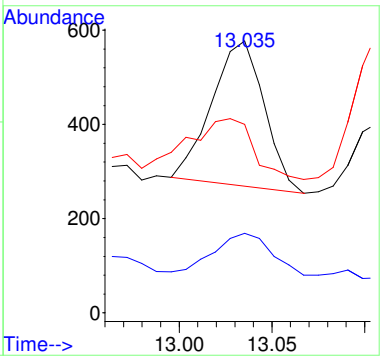


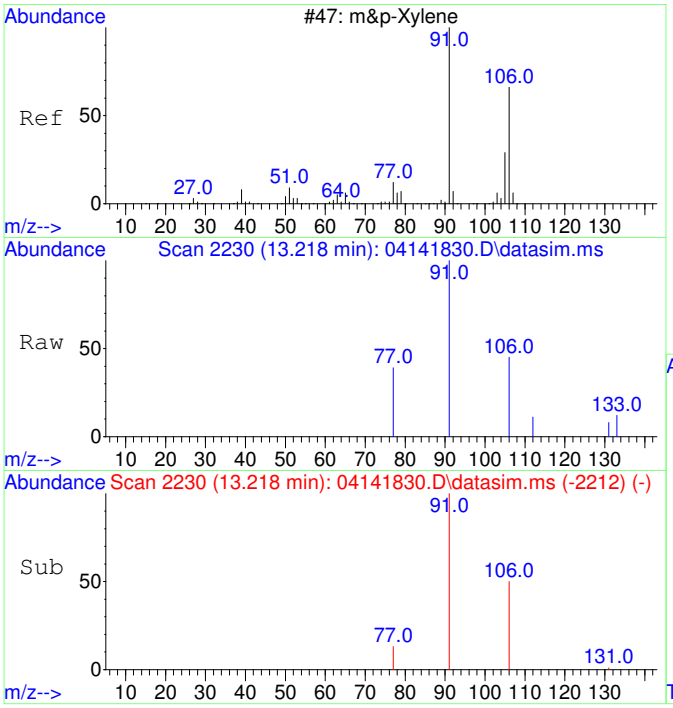


#18
Ethylbenzene
Concen: 21.16 ug/L
RT: 13.035 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 596

Ion	Ratio	Lower	Upper
91	100		
106	38.9	1.8	61.8
77	59.2	0.0	38.7#

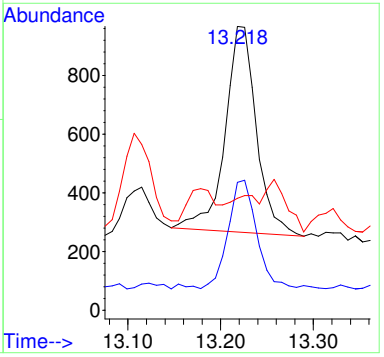


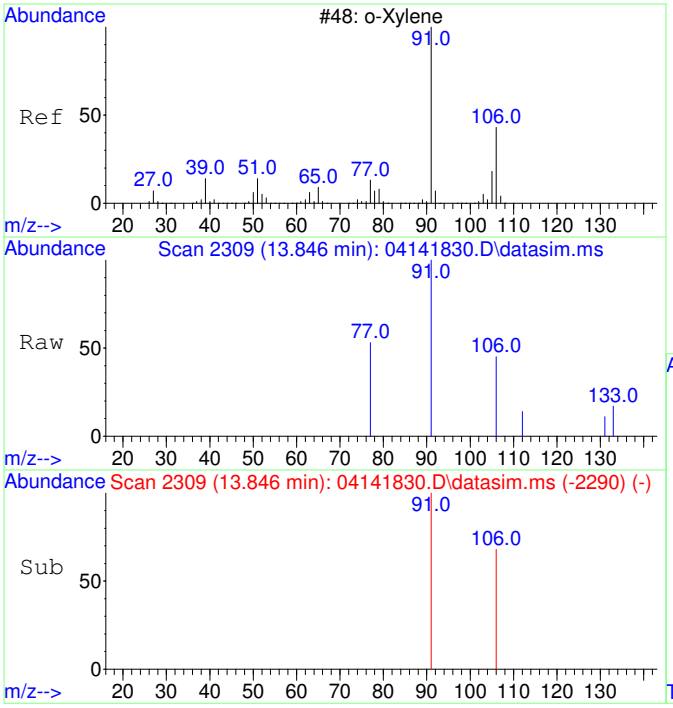


#19
m&p-Xylene
Concen: 74.77 ug/L
RT: 13.218 min Scan# 2230
Delta R.T. -0.008 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 1648

Ion	Ratio	Lower	Upper
91	100		
106	48.4	20.0	80.0
77	13.3	0.0	43.4

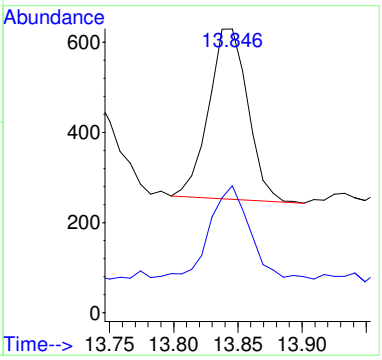


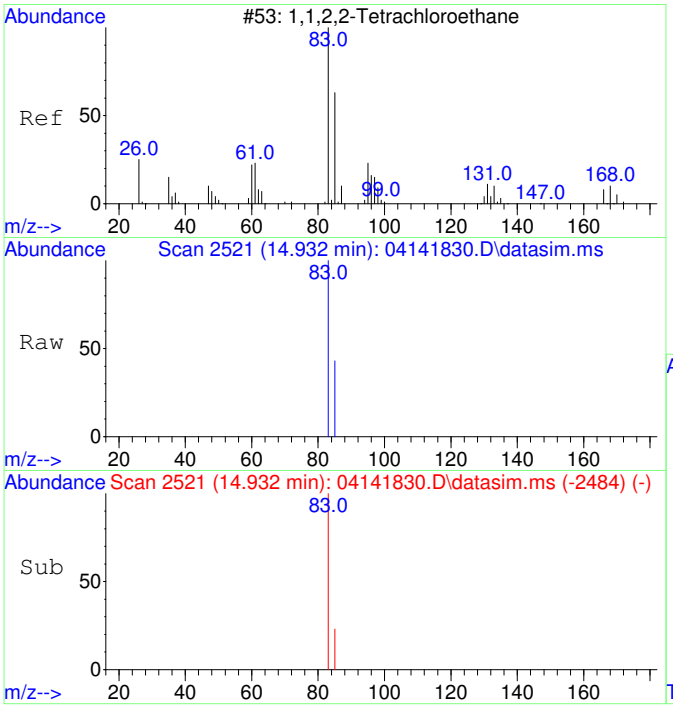


#20
o-Xylene
Concen: 34.23 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 795

Ion	Ratio	Lower	Upper
91	100		
106	57.5	16.9	76.9

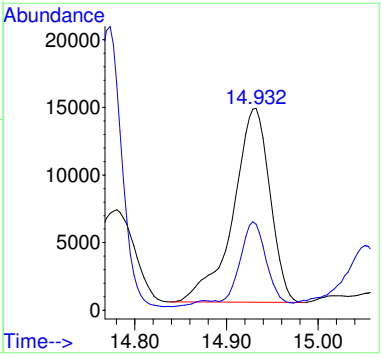


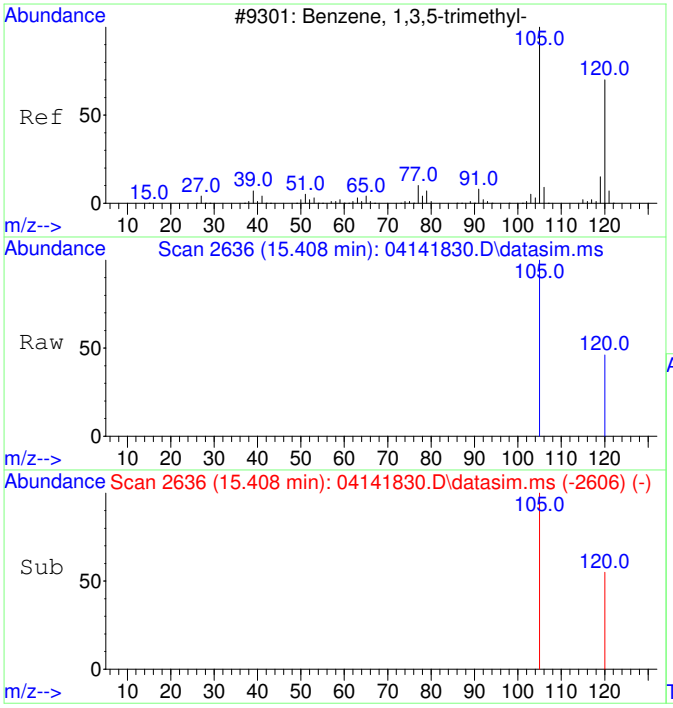


#21
1,1,2,2-Tetrachloroethane
Concen: 3703.73 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.011 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 83 Resp: 39925

Ion	Ratio	Lower	Upper
83	100		
85	29.2	34.3	94.3#

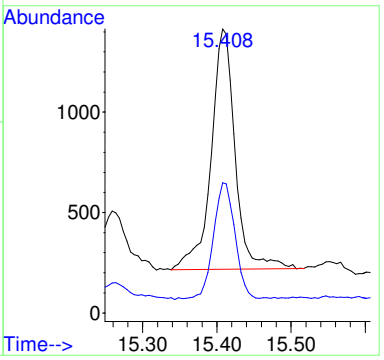


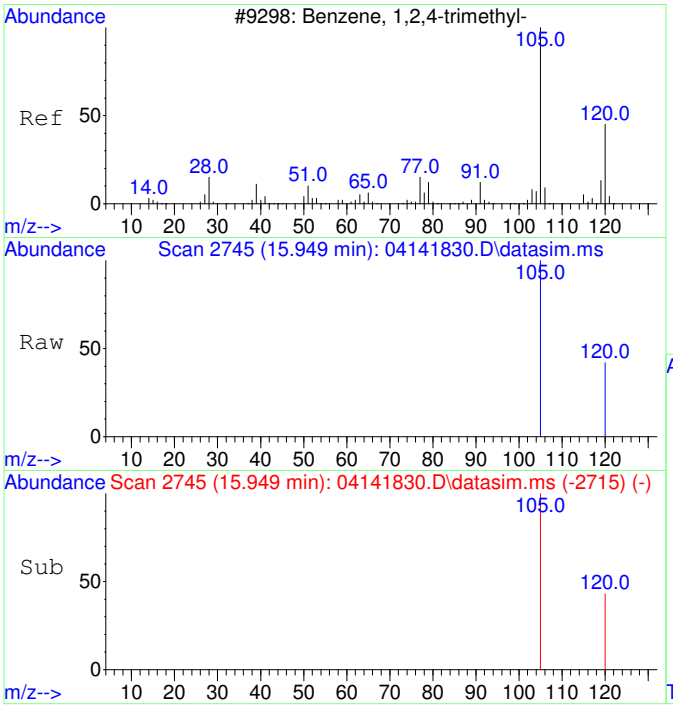


#22
1,3,5-Trimethylbenzene
Concen: 99.07 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:105 Resp: 2693

Ion	Ratio	Lower	Upper
105	100		
120	43.3	18.1	78.1

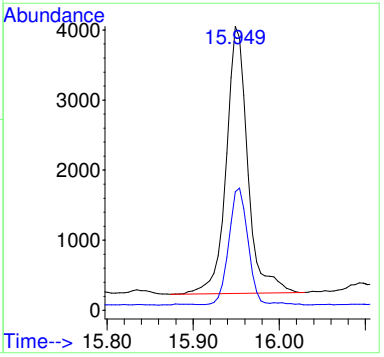


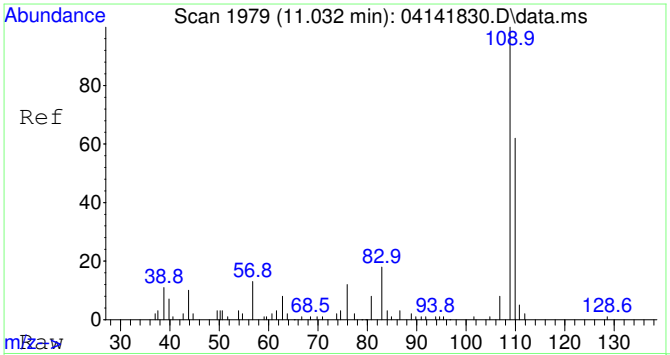


#23
1,2,4-Trimethylbenzene
Concen: 239.05 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:105 Resp: 6610

Ion	Ratio	Lower	Upper
105	100		
120	39.1	14.5	74.5

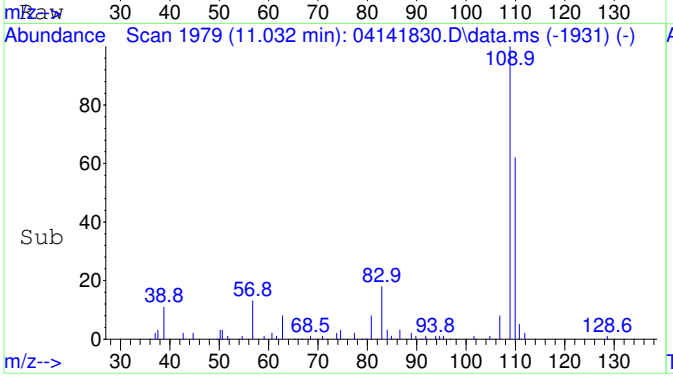


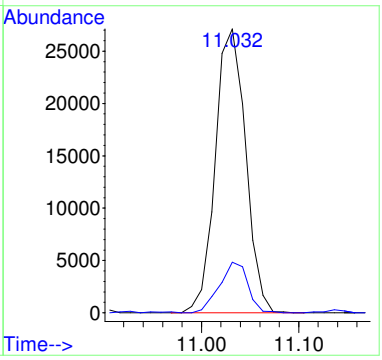


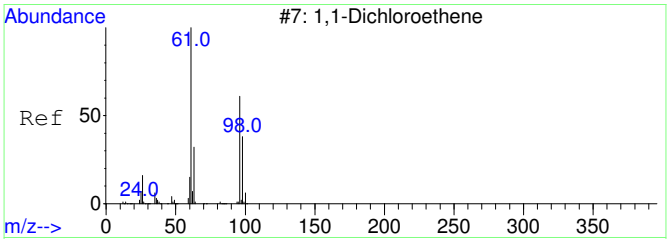
#25
2-Fluorotoluene SCAN
Concen: 5169.34 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:109 Resp: 58667

Ion	Ratio	Lower	Upper
109	100		
83	16.7	0.0	49.2



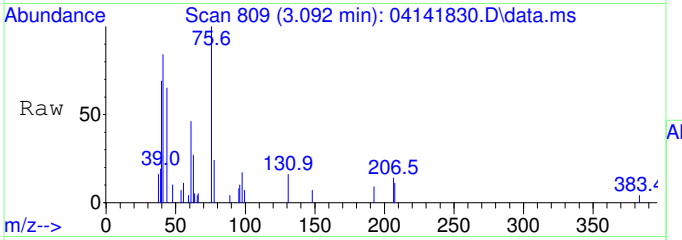


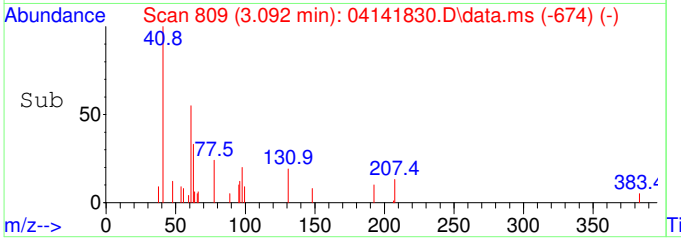


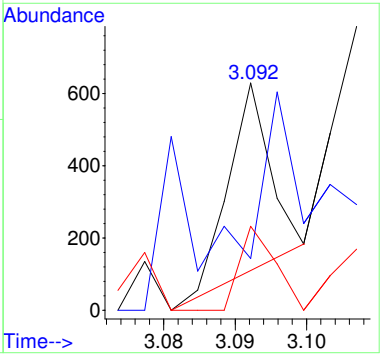
#26
1,1-Dichloroethene SCAN
Concen: 90.65 ug/L
RT: 3.092 min Scan# 809
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

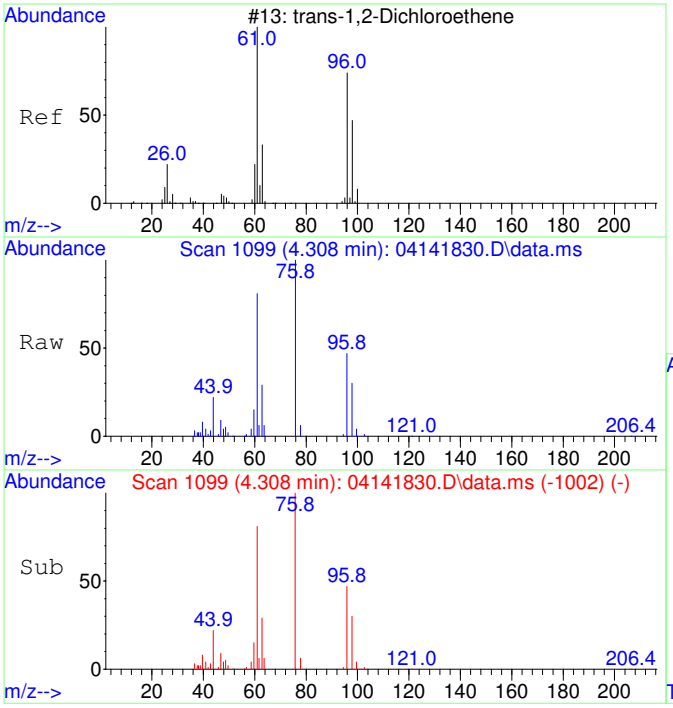
Tgt Ion: 61 Resp: 228

Ion	Ratio	Lower	Upper
61	100		
96	121.9	21.6	81.6#
98	35.1	7.5	67.5





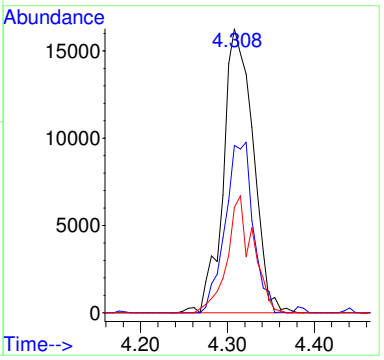


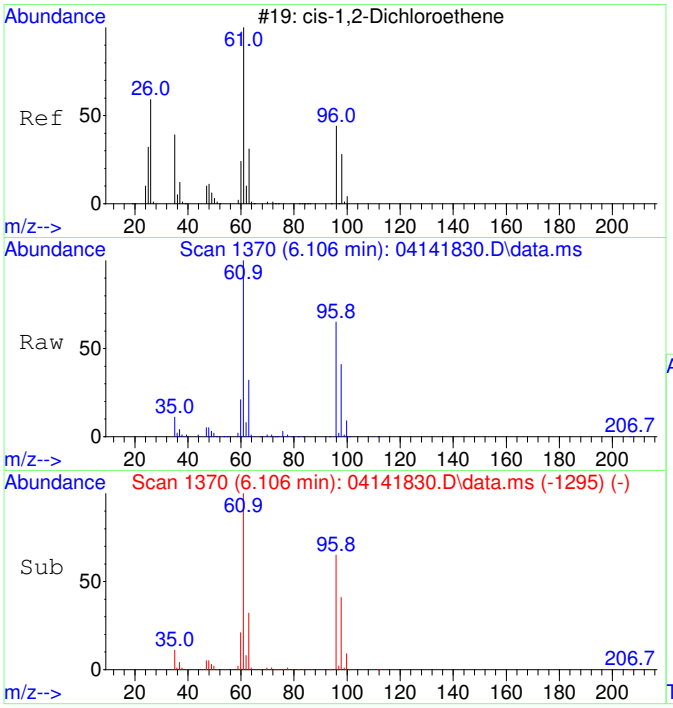


#27
trans-1,2-Dichloroethene SCAN
Concen: 15753.90 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 38826

Ion	Ratio	Lower	Upper
61	100		
96	56.3	51.8	111.8
98	35.7	22.7	82.7

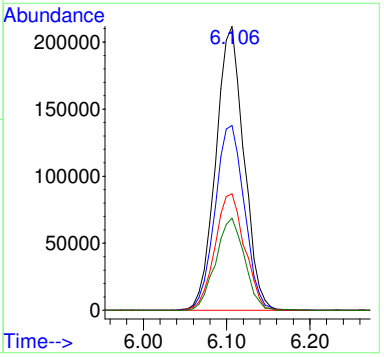


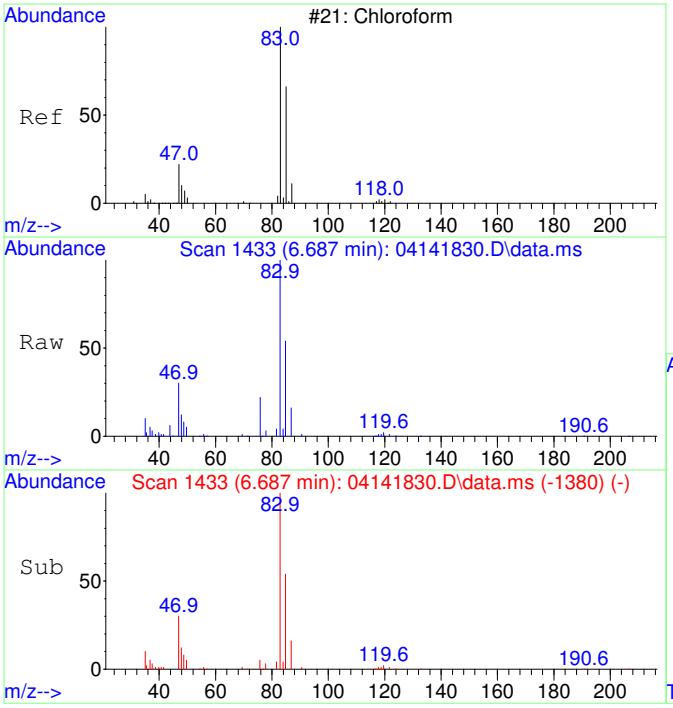


#29
cis-1,2-Dichloroethene SCAN
Concen: 168063.86 ug/L
RT: 6.106 min Scan# 1370
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 61 Resp: 497493

Ion	Ratio	Lower	Upper
61	100		
96	68.0	49.4	109.4
98	43.4	9.5	69.5
63	33.0	0.0	60.0

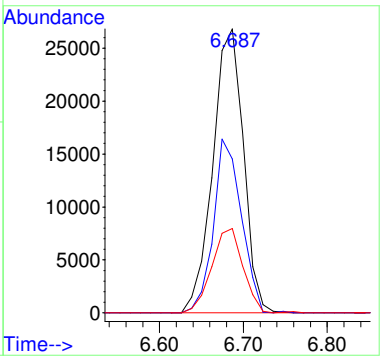


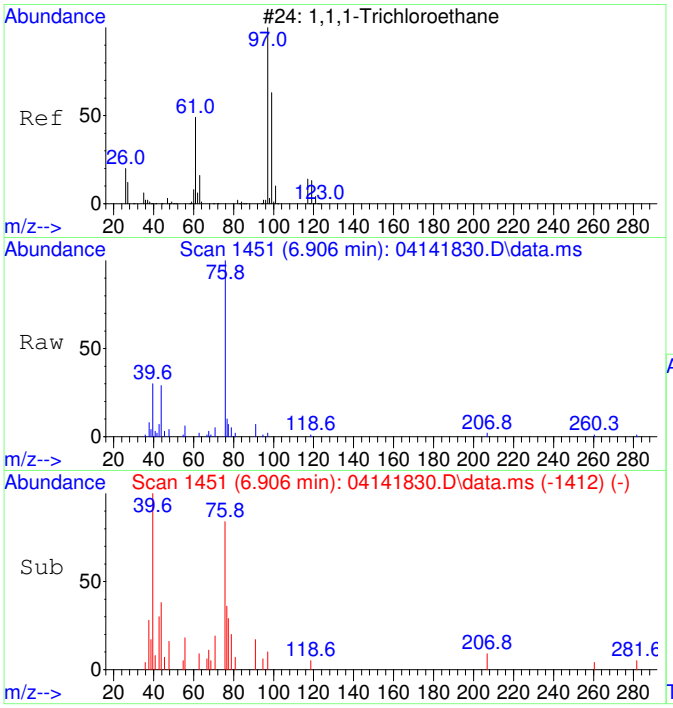


#30
Chloroform SCAN
Concen: 19030.64 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 83 Resp: 67969

Ion	Ratio	Lower	Upper
83	100		
85	55.7	47.8	107.8
47	30.3	8.2	68.2

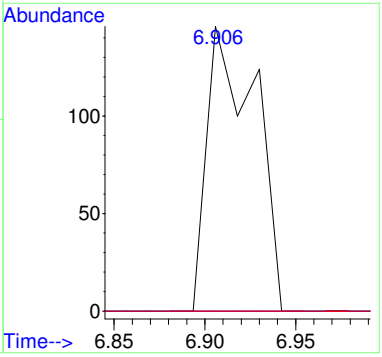


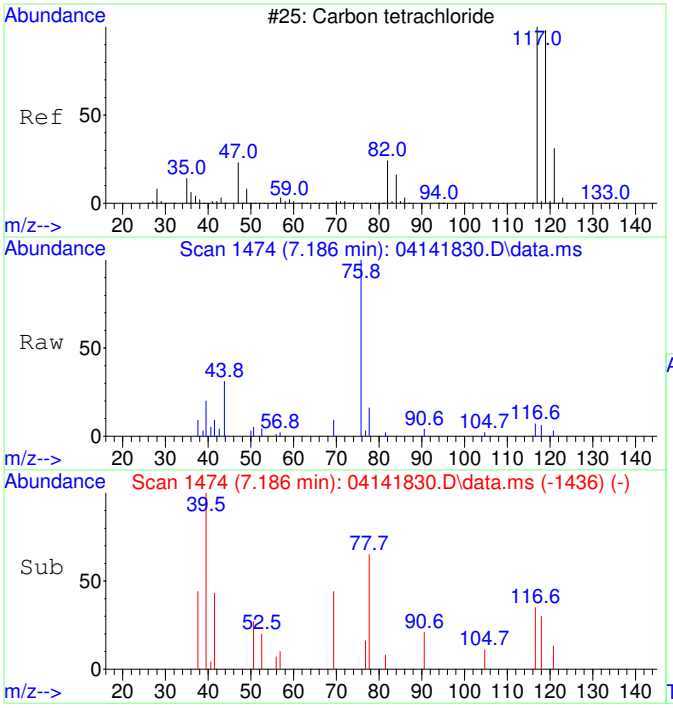


#31
1,1,1-Trichloroethane SCAN
Concen: 60.24 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.025 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 97 Resp: 270

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

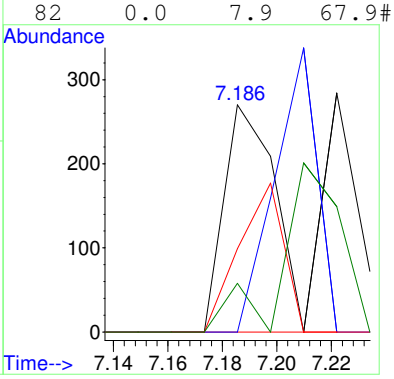


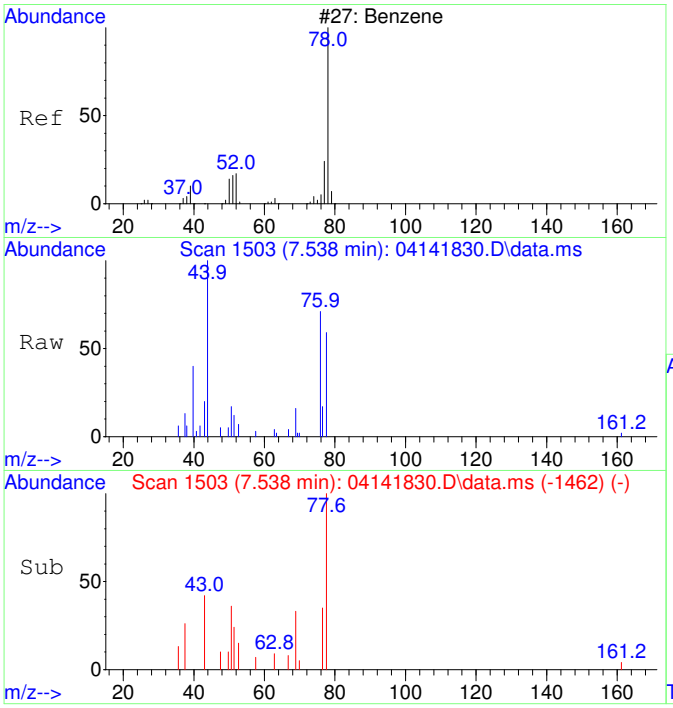


#32
Carbon tetrachloride SCAN
Concen: 108.57 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. -0.037 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:117 Resp: 350

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

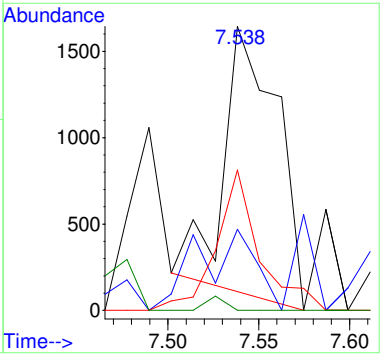


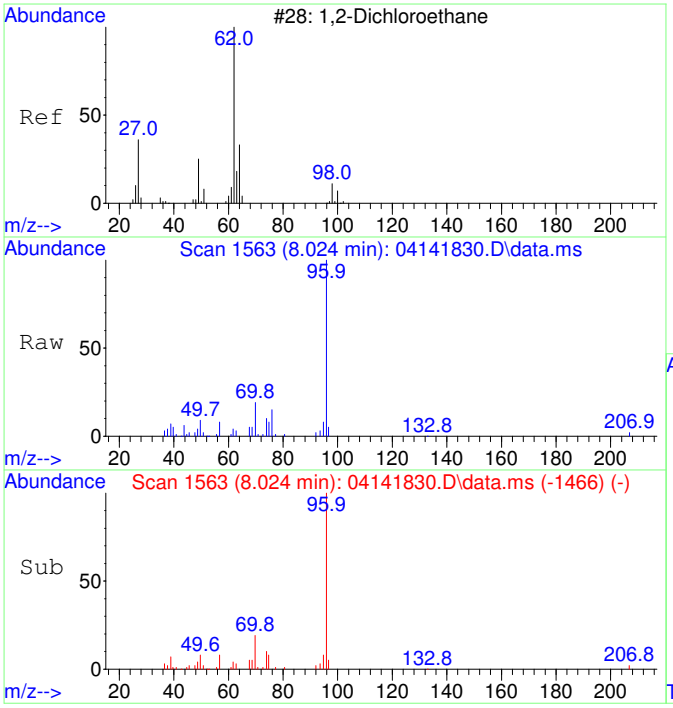


#33
Benzene SCAN
Concen: 322.36 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 78 Resp: 3150

Ion	Ratio	Lower	Upper
78	100		
77	32.8	5.4	65.4
51	42.5	0.0	47.2
52	1.9	0.0	47.4

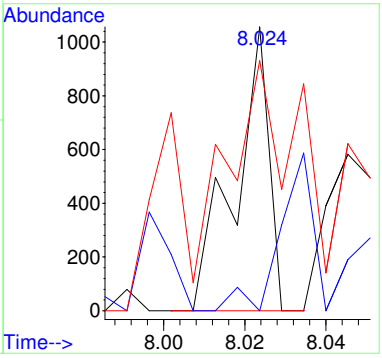


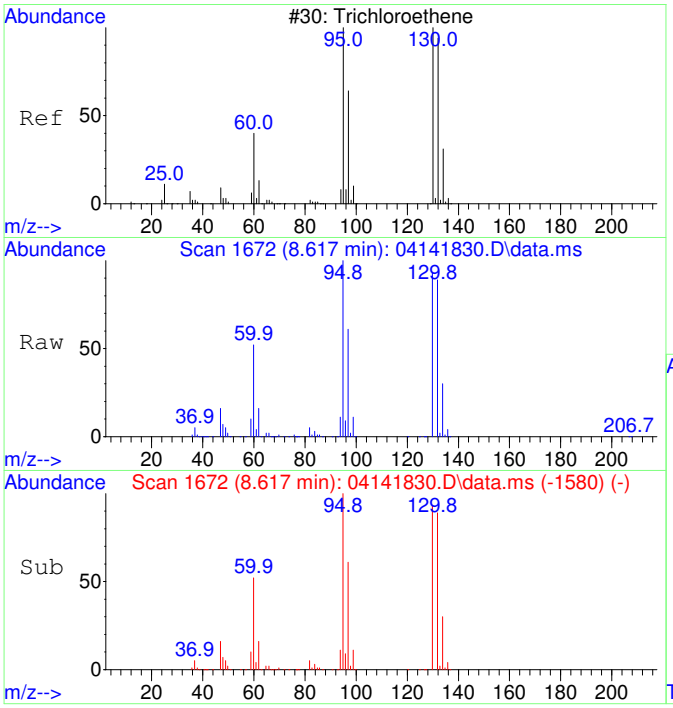


#34
1,2-Dichloroethane SCAN
Concen: 164.90 ug/L
RT: 8.024 min Scan# 1563
Delta R.T. 0.437 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 62 Resp: 611

Ion	Ratio	Lower	Upper
62	100		
64	77.7	4.4	64.4#
49	220.3	1.2	61.2#

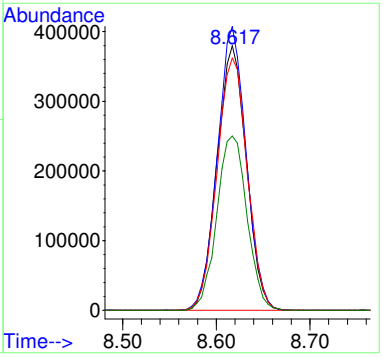


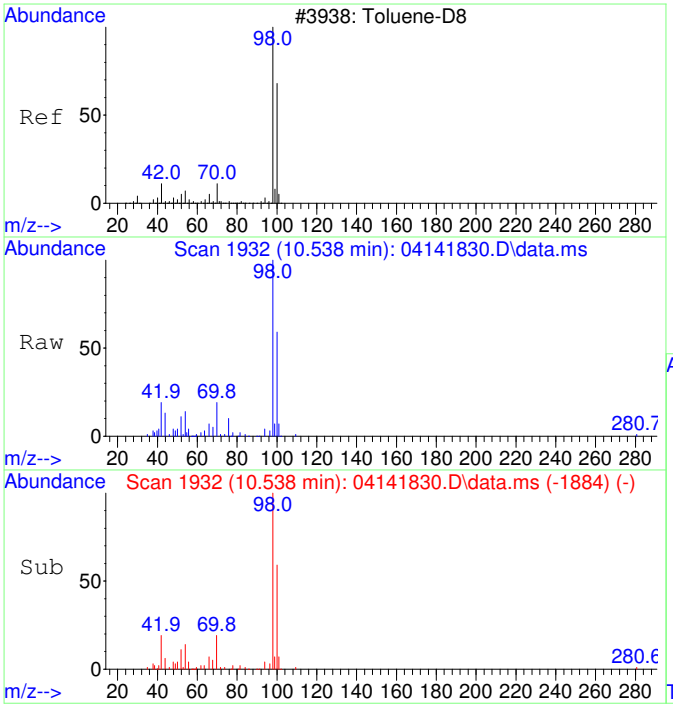


#35
Trichloroethene SCAN
Concen: 336348.35 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:130 Resp: 825767

Ion	Ratio	Lower	Upper
130	100		
95	105.2	71.3	131.3
132	98.1	75.1	135.1
97	67.7	41.3	101.3

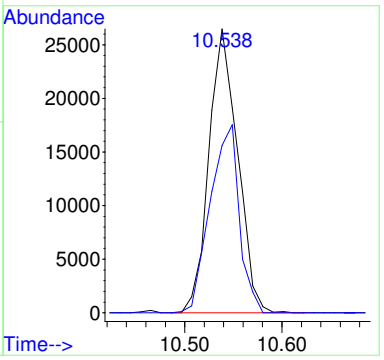


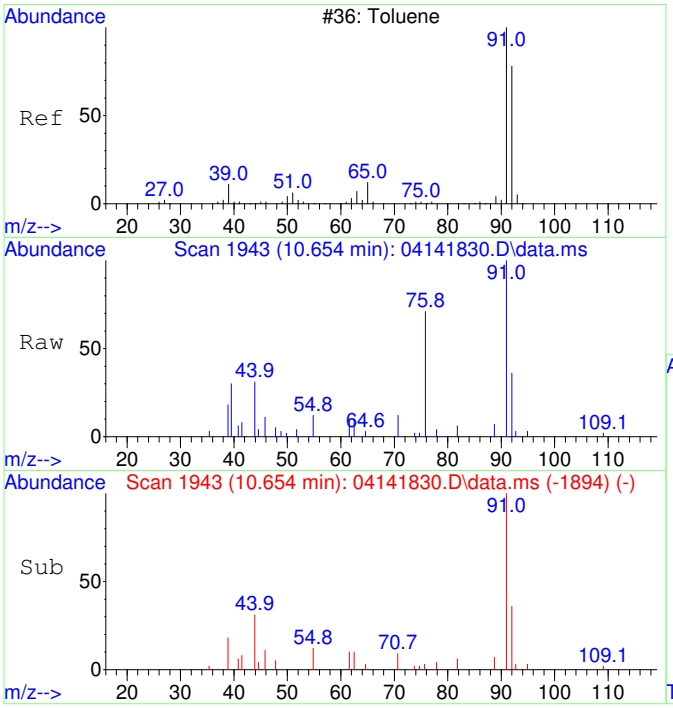


#36
Toluene-d8 SCAN
Concen: 5451.76 ug/L
RT: 10.538 min Scan# 1932
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 98 Resp: 54324

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.3	97.3

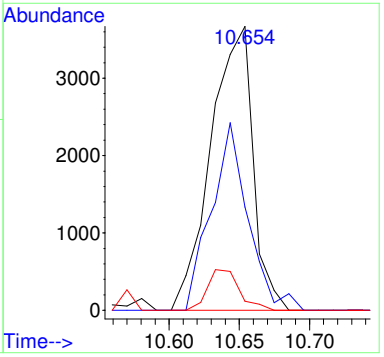


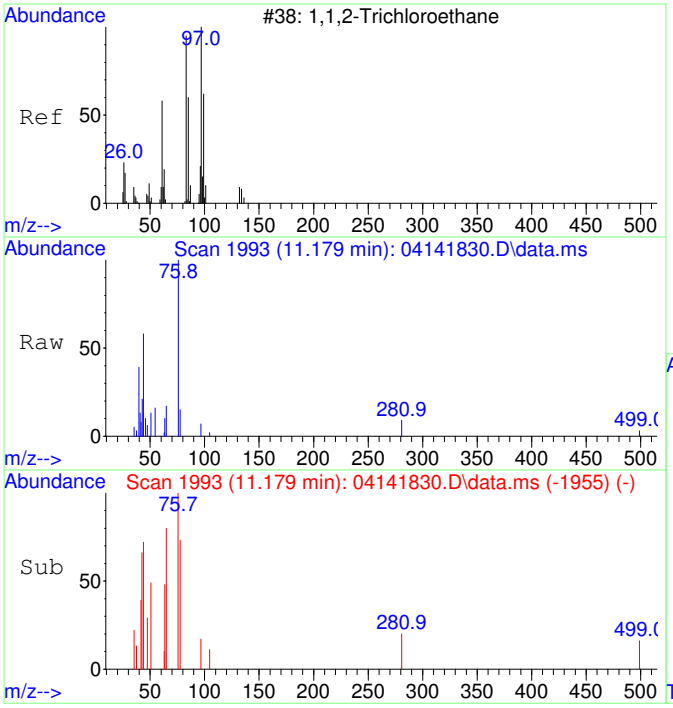


#37
Toluene SCAN
Concen: 689.24 ug/L
RT: 10.654 min Scan# 1943
Delta R.T. 0.010 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 7681

Ion	Ratio	Lower	Upper
91	100		
92	57.7	39.1	99.1
65	0.0	0.0	43.8

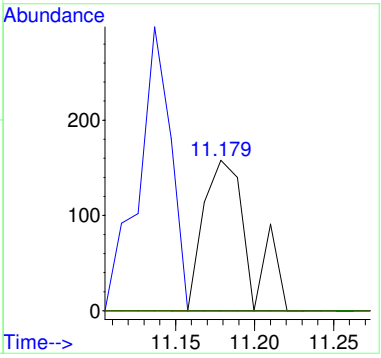


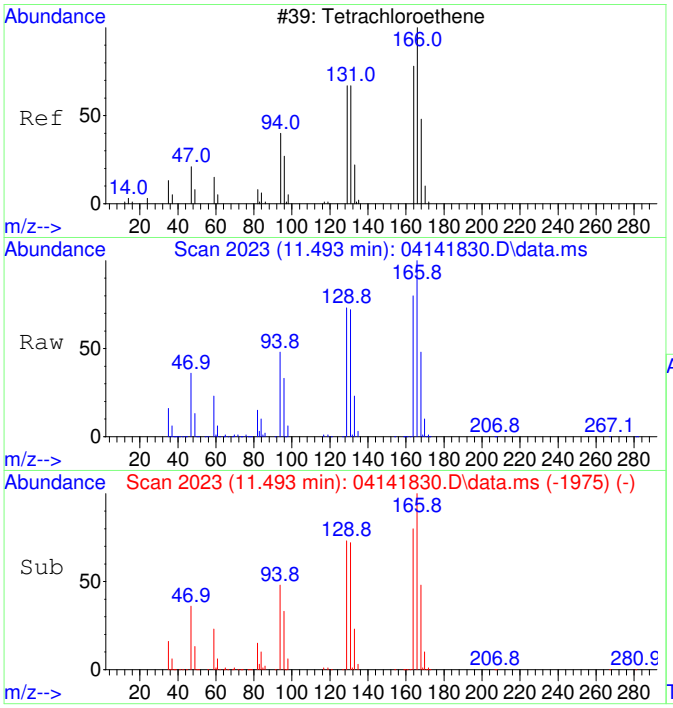


#38
1,1,2-Trichloroethane SCAN
Concen: 92.88 ug/L
RT: 11.179 min Scan# 1993
Delta R.T. -0.105 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 97 Resp: 317

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

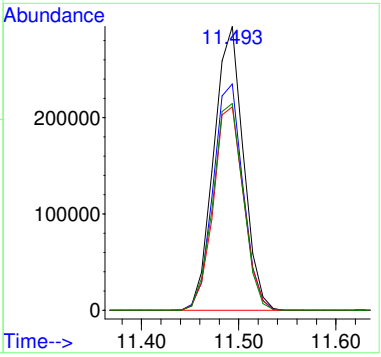


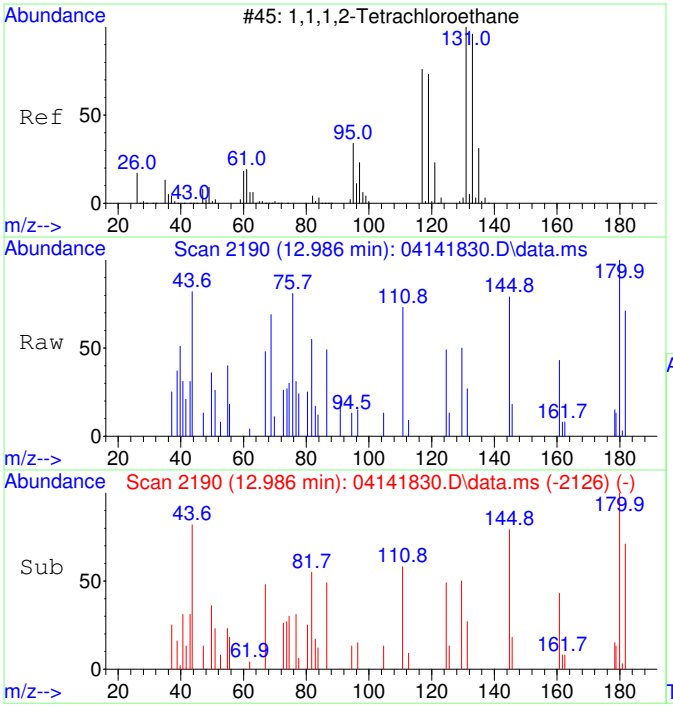


#39
Tetrachloroethene SCAN
Concen: 171149.08 ug/L
RT: 11.493 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:166 Resp: 622008

Ion	Ratio	Lower	Upper
166	100		
164	80.7	49.8	109.8
131	73.2	42.0	102.0
129	74.5	30.1	90.1

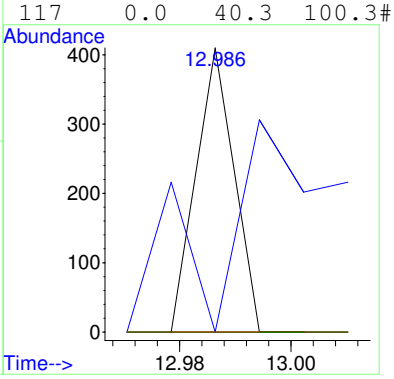


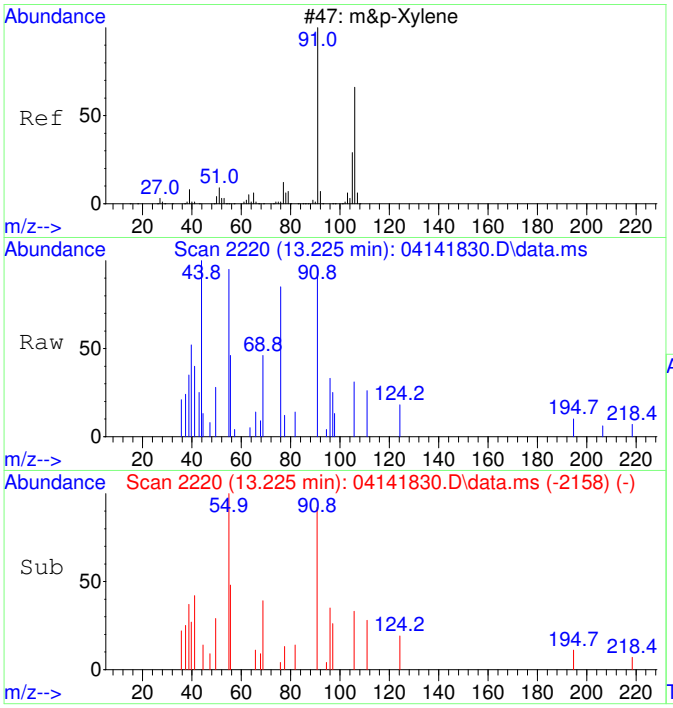


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 68.49 ug/L
RT: 12.986 min Scan# 2190
Delta R.T. 0.008 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:131 Resp: 195

Ion	Ratio	Lower	Upper
131	100		
133	229.7	78.7	138.7#
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

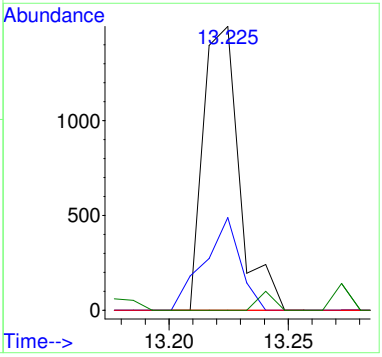


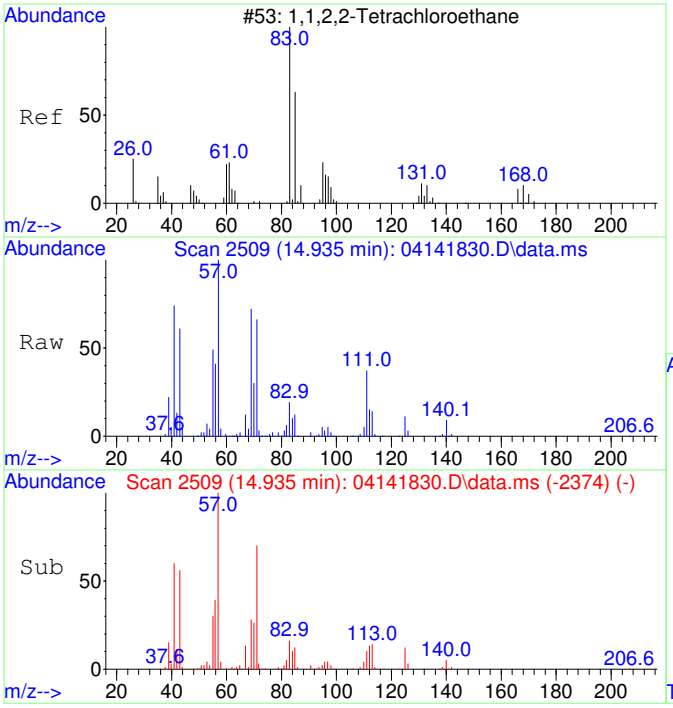


#43
m&p-Xylene SCAN
Concen: 66.84 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 91 Resp: 1589

Ion	Ratio	Lower	Upper
91	100		
106	32.7	14.6	74.6
105	0.0	0.0	52.8
51	0.0	0.0	44.5

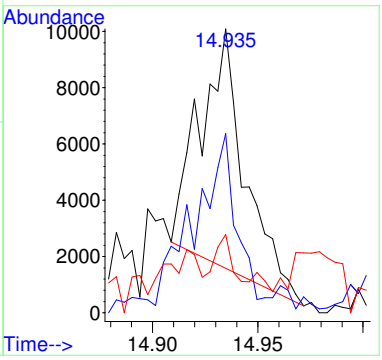


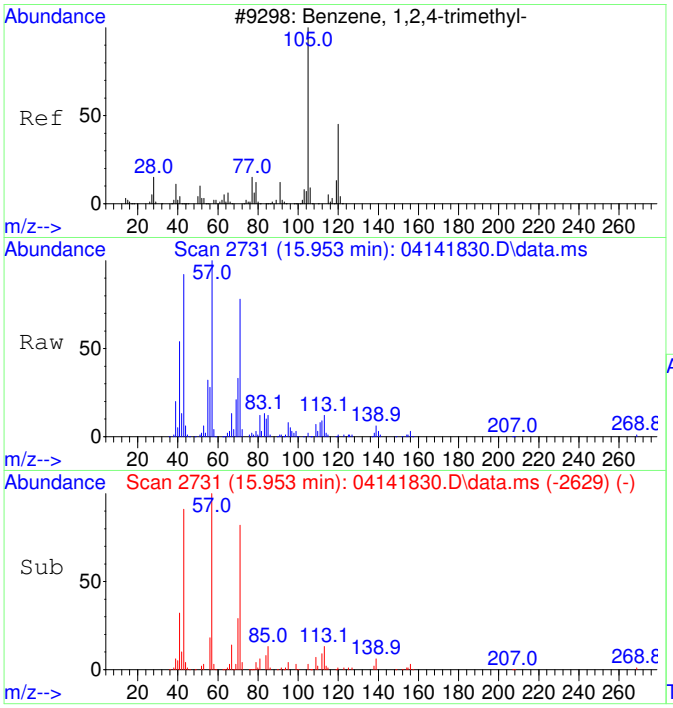


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 1812.91 ug/L
RT: 14.935 min Scan# 2509
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 83 Resp: 12215

Ion	Ratio	Lower	Upper
83	100		
85	63.7	32.4	92.4
95	8.2	0.0	41.2

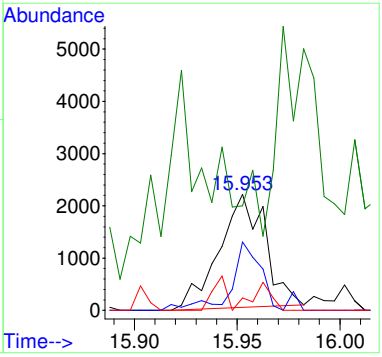


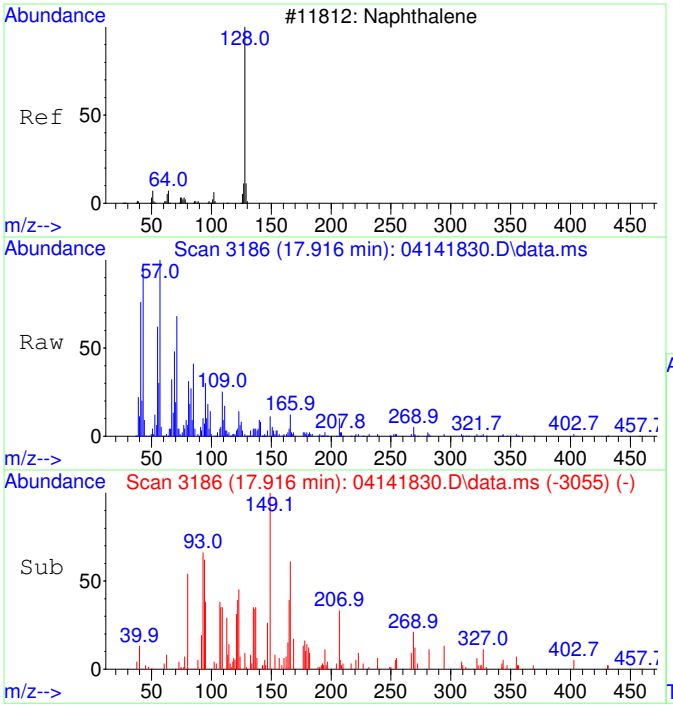


#47
1,2,4-Trimethylbenzene SCAN
Concen: 227.77 ug/L
RT: 15.953 min Scan# 2731
Delta R.T. 0.005 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:105 Resp: 3397

Ion	Ratio	Lower	Upper
105	100		
120	37.8	12.8	72.8
119	8.9	0.0	42.5
77	0.0	0.0	42.2

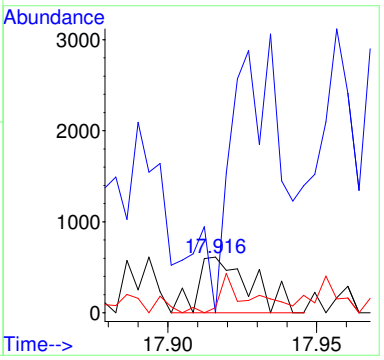


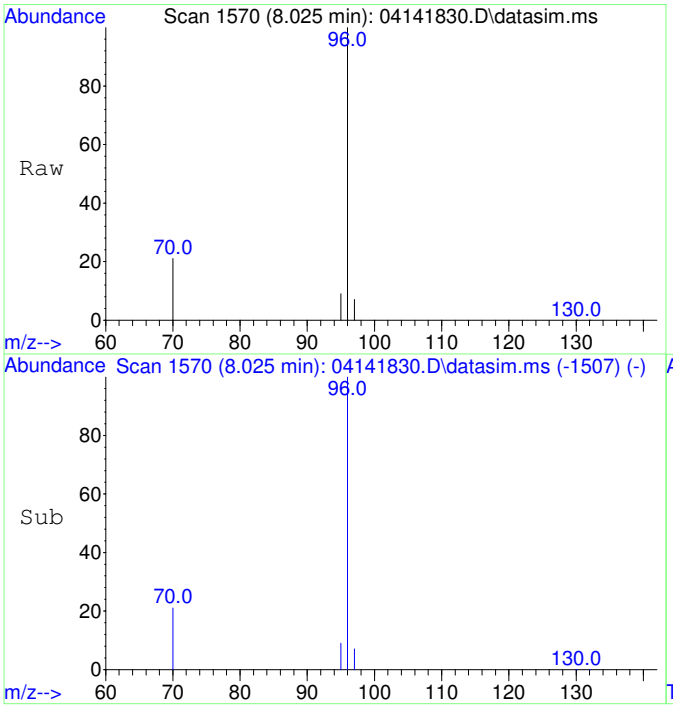


#48
Naphthalene SCAN
Concen: 31.84 ug/L
RT: 17.916 min Scan# 3186
Delta R.T. -0.015 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion:128 Resp: 765

Ion	Ratio	Lower	Upper
128	100		
127	302.2	0.0	45.2#
129	28.9	0.0	42.0

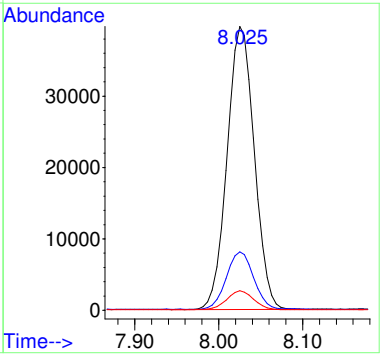




#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. -0.000 min
Lab File: 04141830.D
Acq: 14 Apr 2018 22:20

Tgt Ion: 96 Resp: 88934

Ion	Ratio	Lower	Upper
96	100		
70	20.7	0.0	50.7
97	6.6	0.0	36.7



1804005-03

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141831.D
Acq On : 14 Apr 2018 22:44
InstName : AG5975C
Operator : RH
Sample : 1804005-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Apr 16 09:40:26 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

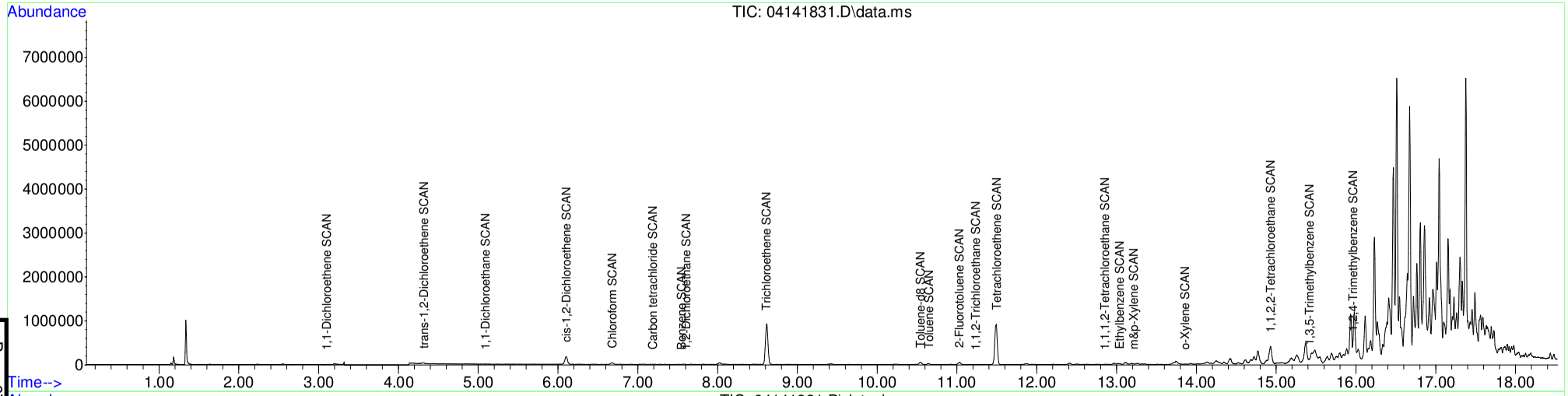
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	77631	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	63916	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	67214	5158.34 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.17%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	1056	309.89 ug/L	99
3] trans-1,2-Dichloroethene	4.303	61	19497	5599.49 ug/L	100
4] 1,1-Dichloroethane	5.066	63	106	22.86 ug/L	76
5] cis-1,2-Dichloroethene	6.101	61	207149	48296.58 ug/L	99
6] Chloroform	6.676	83	54025	10710.15 ug/L	99
7] 1,1,1-Trichloroethane	6.931	97	231	46.90 ug/L #	80
8] Carbon tetrachloride	7.211	117	1352	300.87 ug/L	97
9] Benzene	7.540	78	6416	515.95 ug/L	97
10] 1,2-Dichloroethane	7.576	62	256	59.04 ug/L #	20
11] Trichloroethene	8.613	130	639577	186667.39 ug/L	99
13] Toluene	10.634	91	32977	2010.77 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	372	102.66 ug/L #	26
15] Tetrachloroethene	11.495	166	630567	140277.36 ug/L	99
16] Chlorobenzene	12.829	112	249	21.55 ug/L	86
17] 1,1,1,2-Tetrachloroethane	12.964	131	415	107.87 ug/L #	60
18] Ethylbenzene	13.036	91	4975	267.22 ug/L	91
19] m&p-Xylene	13.226	91	11280	774.32 ug/L	97
20] o-Xylene	13.846	91	4155	270.67 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.932	83	37868	5314.90 ug/L #	53
22] 1,3,5-Trimethylbenzene	15.409	105	3527	196.31 ug/L	92
23] 1,2,4-Trimethylbenzene	15.950	105	13171	720.67 ug/L	78
24] Naphthalene	17.932	128	692	21.87 ug/L #	1
25) 2-Fluorotoluene SCAN	11.032	109	42402	5652.70 ug/L	91
26) 1,1-Dichloroethene SCAN	3.103	61	136	81.80 ug/L #	31
27) trans-1,2-Dichloroethe...	4.315	61	12036	7388.85 ug/L	71
28) 1,1-Dichloroethane SCAN	5.091	63	65	26.08 ug/L #	29
29) cis-1,2-Dichloroethene...	6.100	61	126822	64820.28 ug/L	91
30) Chloroform SCAN	6.675	83	32338	13698.86 ug/L	88
32) Carbon tetrachloride SCAN	7.186	117	346	162.39 ug/L #	74
33) Benzene SCAN	7.551	78	5744	889.35 ug/L #	74
34) 1,2-Dichloroethane SCAN	7.599	62	442	180.48 ug/L #	42
35) Trichloroethene SCAN	8.612	130	346082	213274.89 ug/L	94
36) Toluene-d8 SCAN	10.539	98	37232	5653.14 ug/L	96
37) Toluene SCAN	10.644	91	17776	2413.31 ug/L	93
38) 1,1,2-Trichloroethane ...	11.231	97	283	125.46 ug/L #	51
39) Tetrachloroethene SCAN	11.494	166	314819	131059.49 ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.852	131	184	97.78 ug/L #	22
42) Ethylbenzene SCAN	13.034	91	3728	386.12 ug/L #	63
43) m&p-Xylene SCAN	13.209	91	6916	440.15 ug/L #	43
44) o-Xylene SCAN	13.852	91	2907	341.67 ug/L	65
45) 1,1,2,2-Tetrachloroeth...	14.927	83	20518	4607.29 ug/L #	68
46) 1,3,5-Trimethylbenzene...	15.413	105	1538	157.27 ug/L	90
47) 1,2,4-Trimethylbenzene...	15.959	105	8728	885.42 ug/L #	77

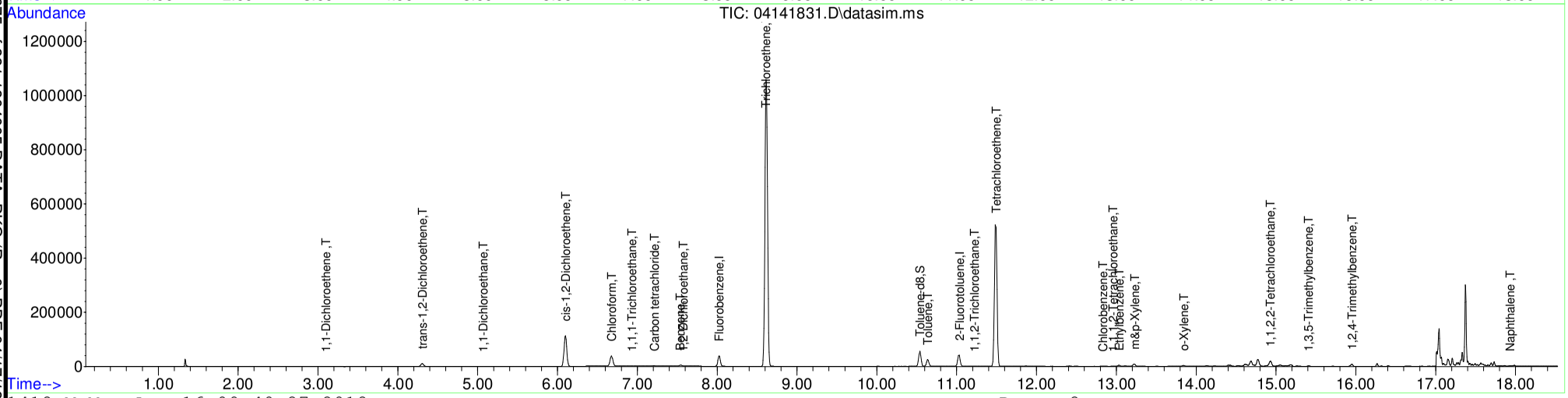
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141831.D
Acq On : 14 Apr 2018 22:44
InstName : AG5975C
Operator : RH
Sample : 1804005-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Apr 16 09:40:26 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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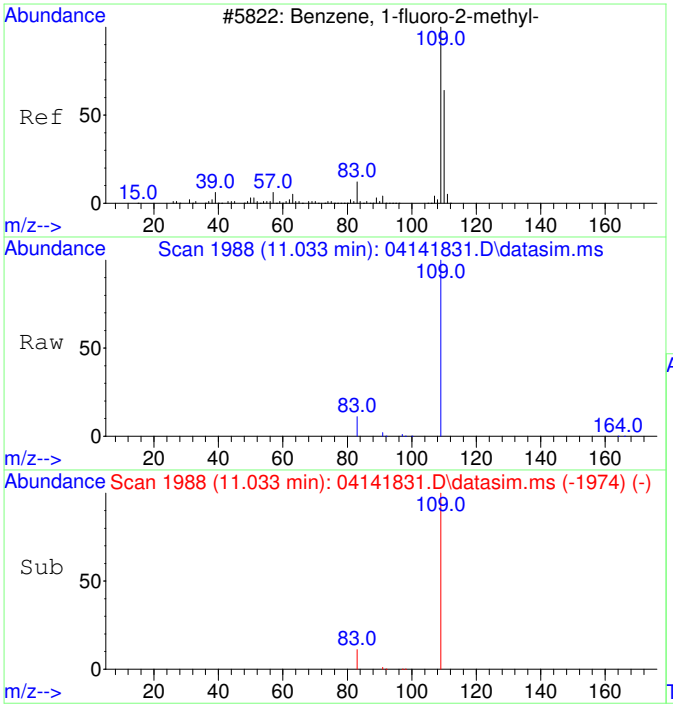
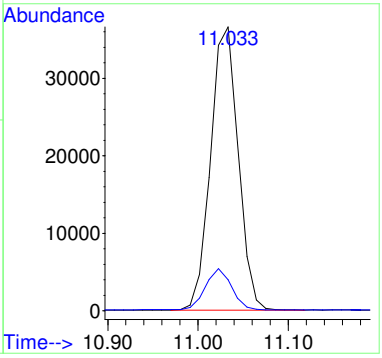
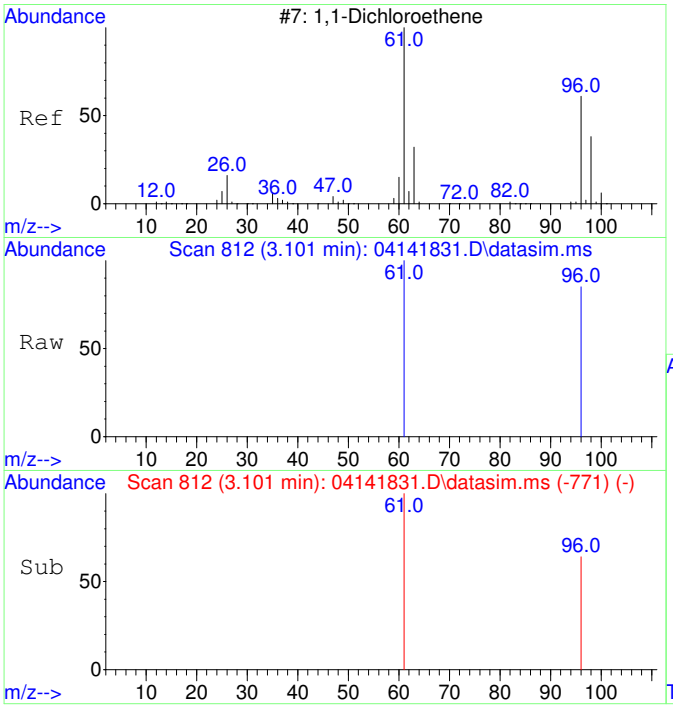


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:109 Resp: 77631

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	44.4

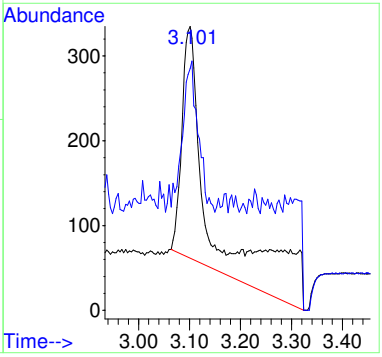




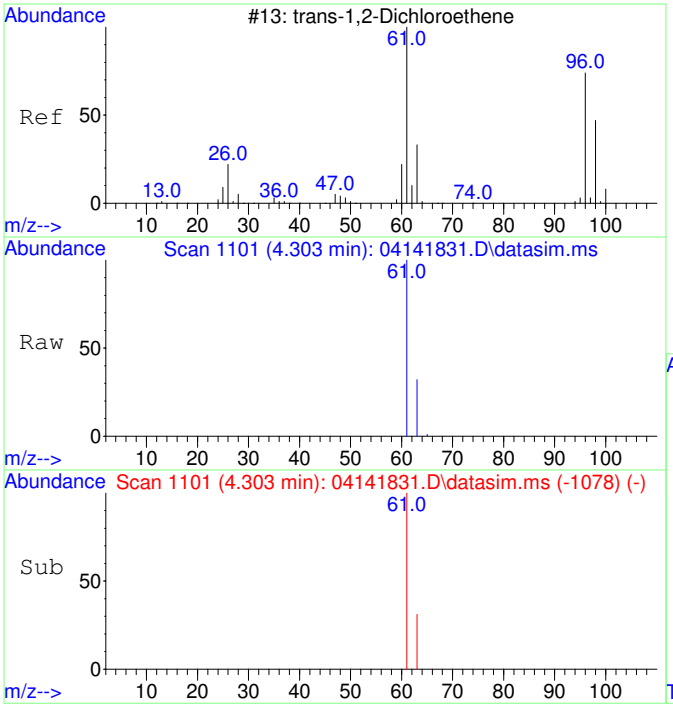
#2
1,1-Dichloroethene
Concen: 309.89 ug/L
RT: 3.101 min Scan# 812
Delta R.T. 0.004 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 1056

Ion	Ratio	Lower	Upper
61	100		
96	56.7	26.1	86.1



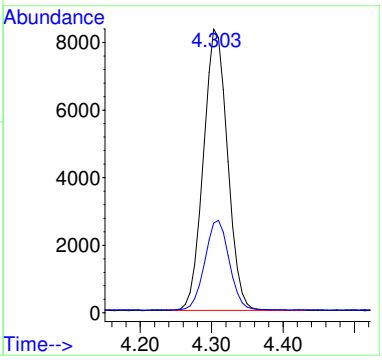
Before MI:
IMPROPER
BASELINE

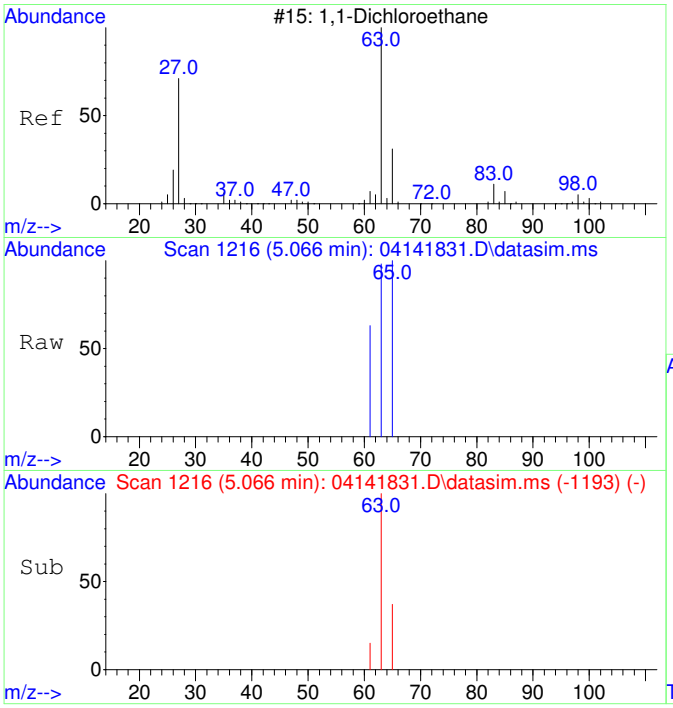


#3
trans-1,2-Dichloroethene
Concen: 5599.49 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 19497

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.0	62.0

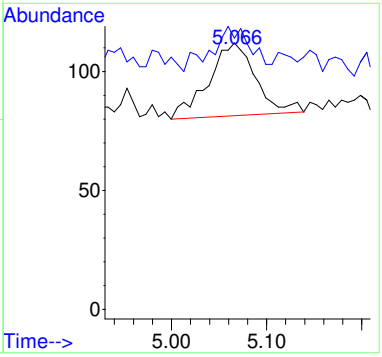


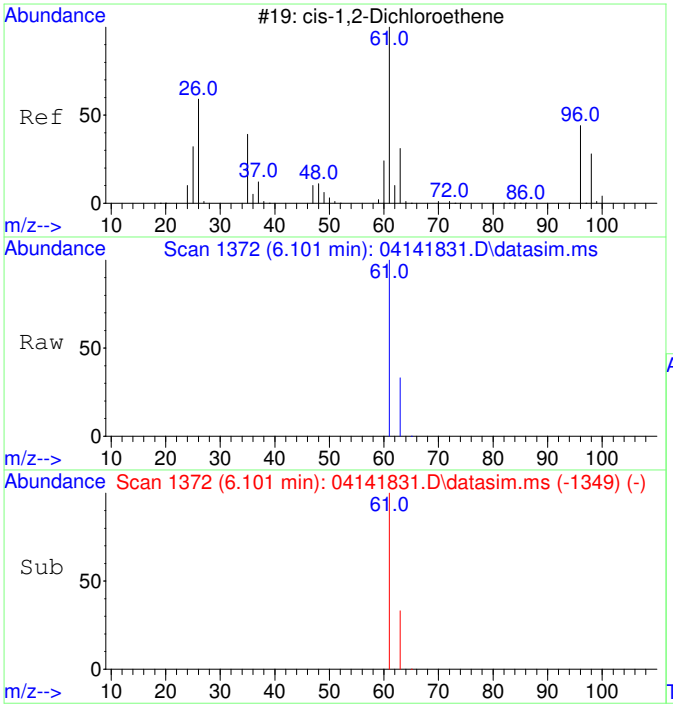


#4
1,1-Dichloroethane
Concen: 22.86 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 63 Resp: 106

Ion	Ratio	Lower	Upper
63	100		
65	45.3	1.8	61.8

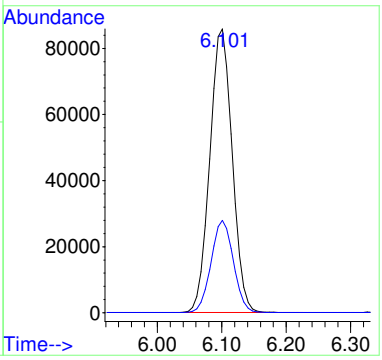


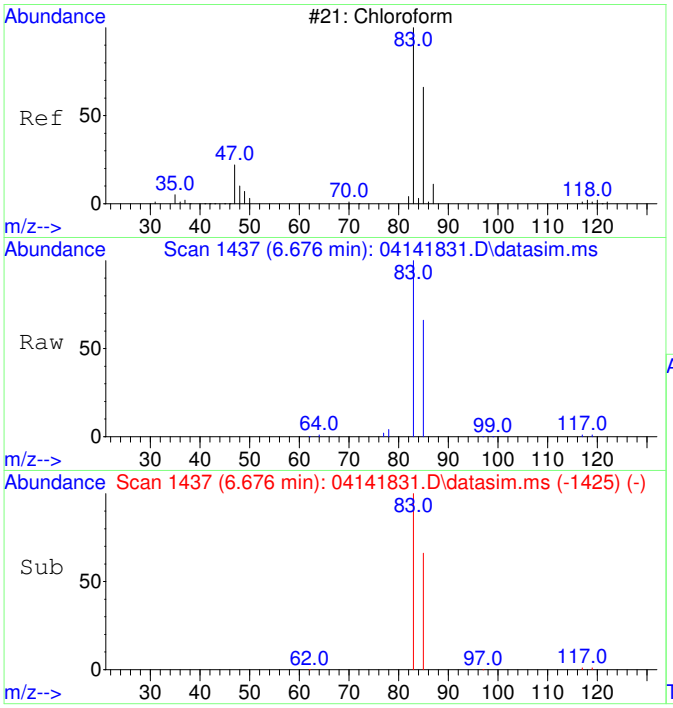


#5
cis-1,2-Dichloroethene
Concen: 48296.58 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 207149

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.0	62.0

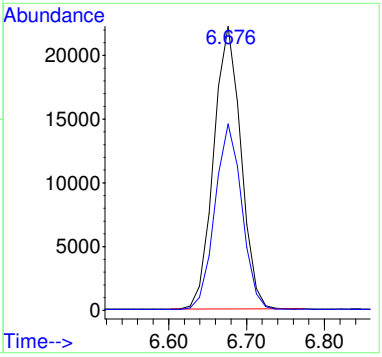


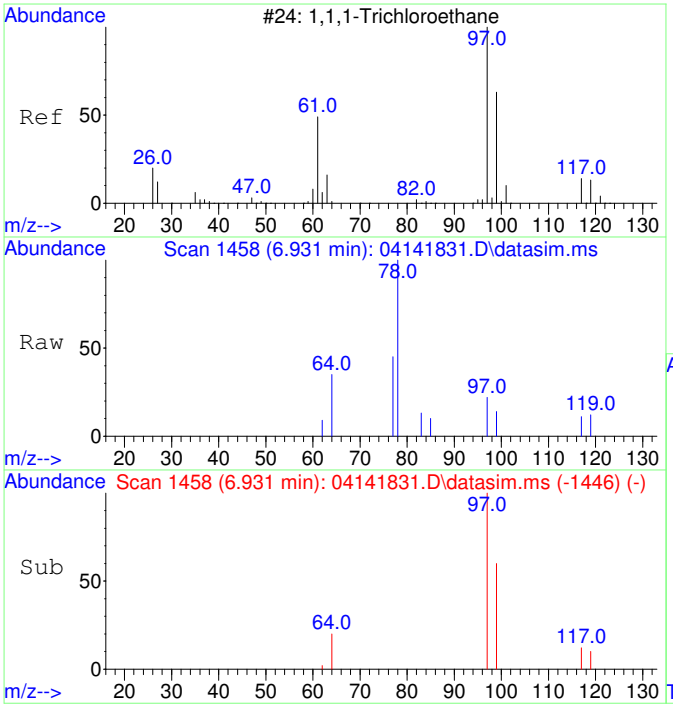


#6
Chloroform
Concen: 10710.15 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 83 Resp: 54025

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.2	94.2

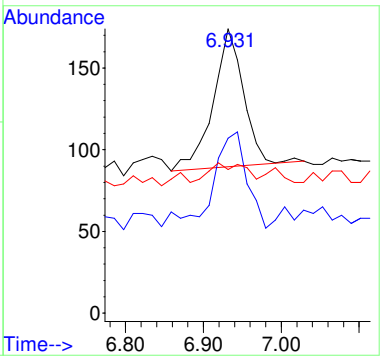


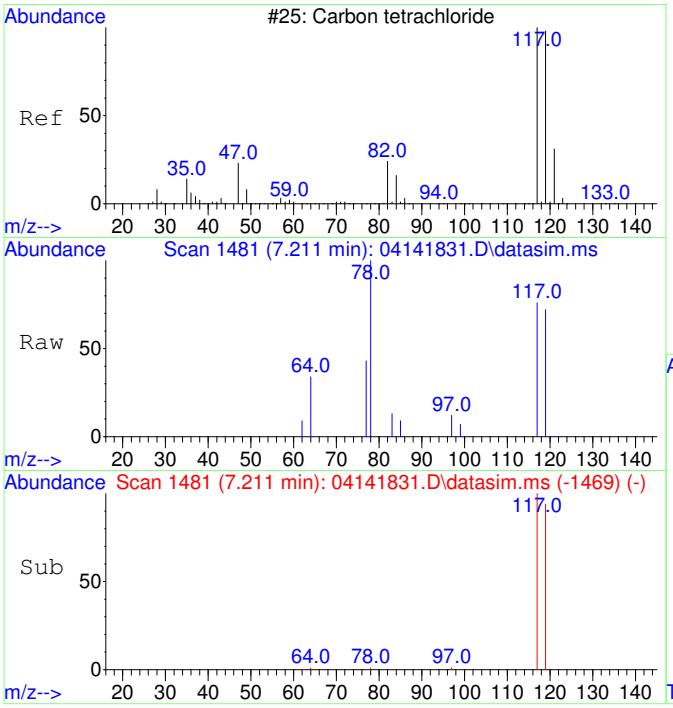


#7
1,1,1-Trichloroethane
Concen: 46.90 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 97 Resp: 231

Ion	Ratio	Lower	Upper
97	100		
99	77.9	34.5	94.5
117	0.0	0.0	42.6

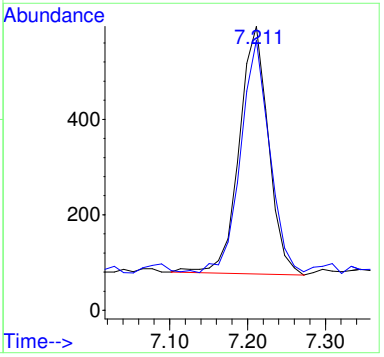


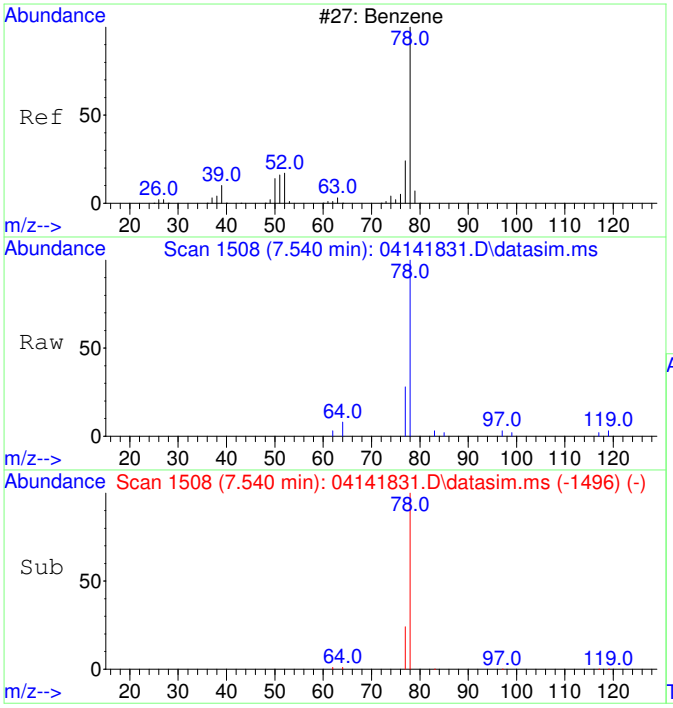


#8
Carbon tetrachloride
Concen: 300.87 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:117 Resp: 1352

Ion	Ratio	Lower	Upper
117	100		
119	91.6	64.5	124.5

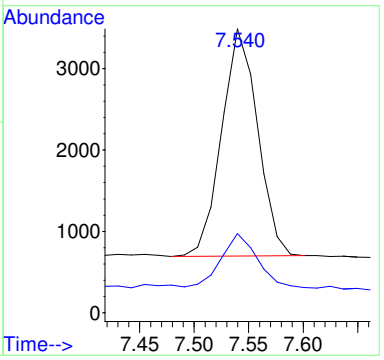


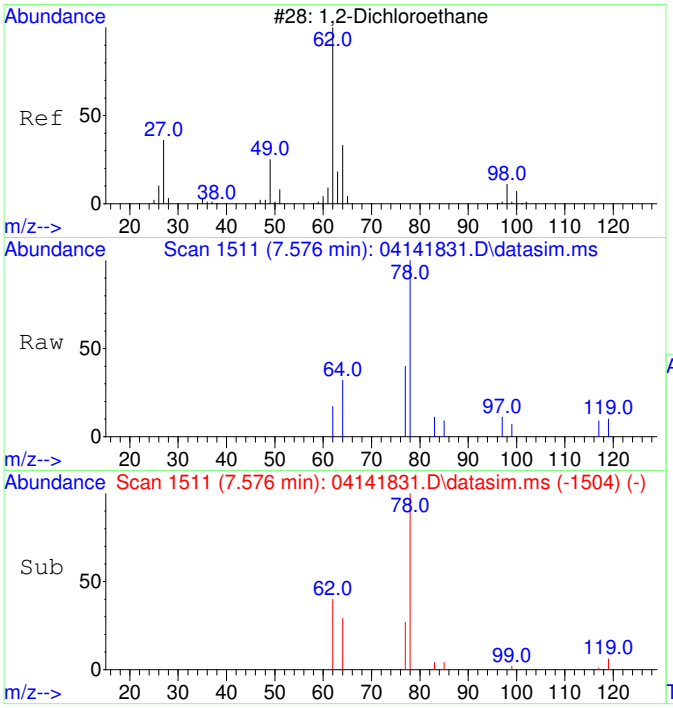


#9
Benzene
Concen: 515.95 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 78 Resp: 6416

Ion	Ratio	Lower	Upper
78	100		
77	25.0	0.0	53.6

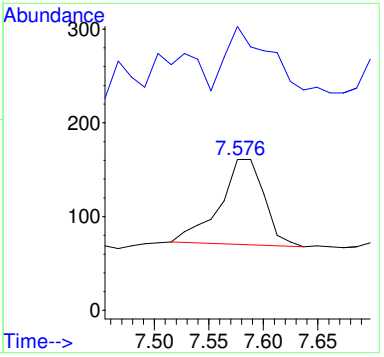


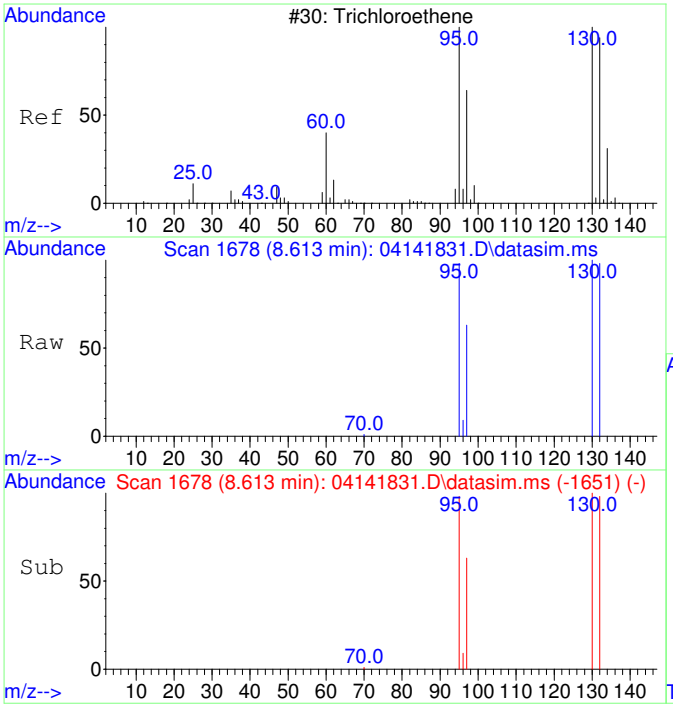


#10
1,2-Dichloroethane
Concen: 59.04 ug/L
RT: 7.576 min Scan# 1511
Delta R.T. -0.012 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 62 Resp: 256

Ion	Ratio	Lower	Upper
62	100		
64	76.2	1.8	61.8#

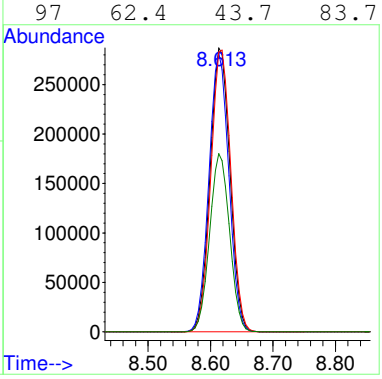


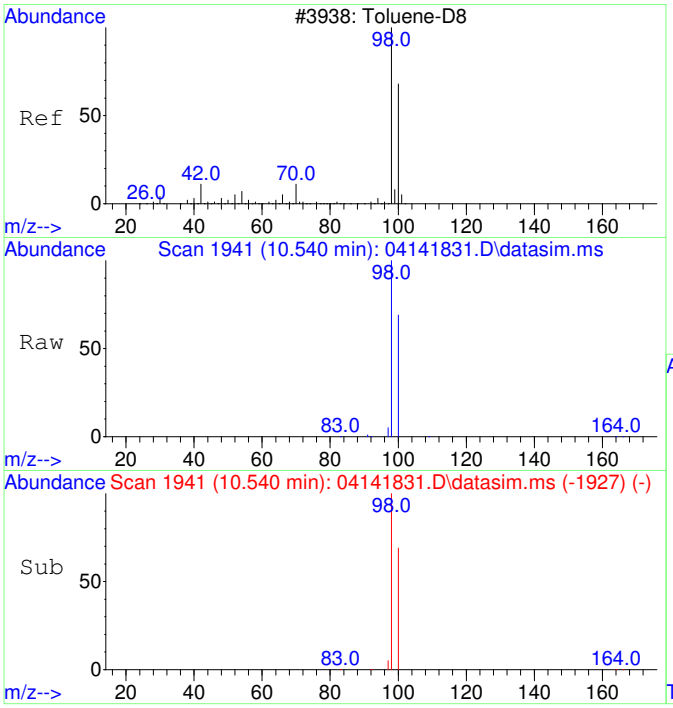


#11
Trichloroethene
Concen: 186667.39 ug/L
RT: 8.613 min Scan# 1678
Delta R.T. -0.005 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:130 Resp: 639577

Ion	Ratio	Lower	Upper
130	100		
95	97.6	68.8	128.8
132	99.6	78.6	118.6
97	62.4	43.7	83.7

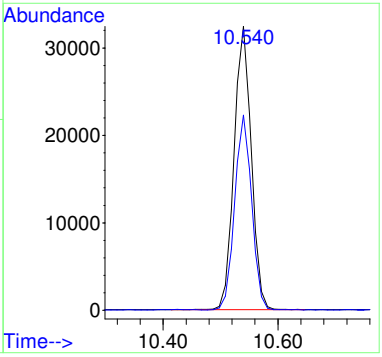


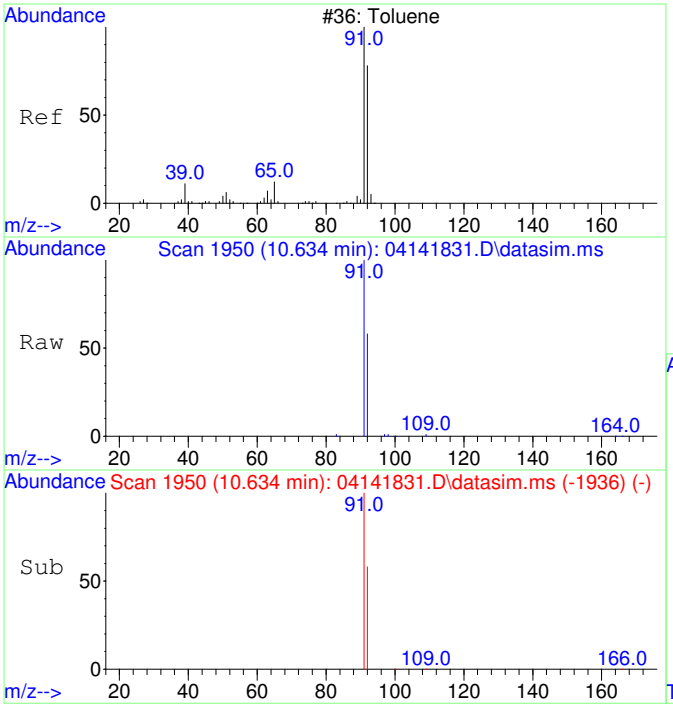


#12
Toluene-d8
Concen: 5158.34 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 98 Resp: 67214

Ion	Ratio	Lower	Upper
98	100		
100	67.7	36.9	96.9

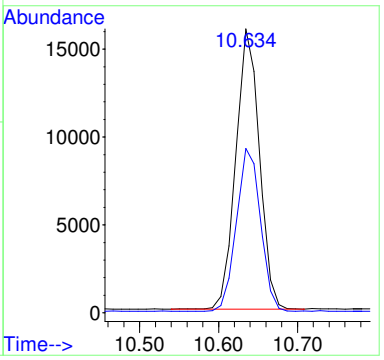


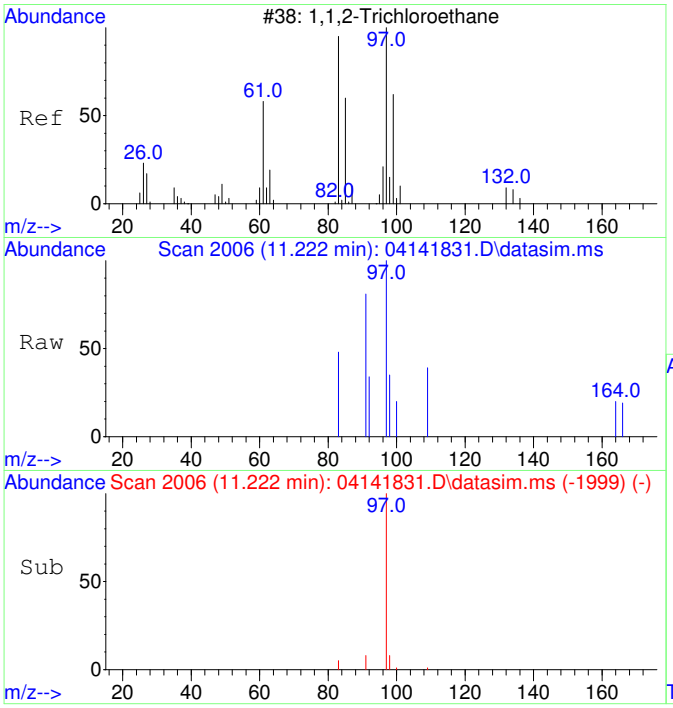


#13
Toluene
Concen: 2010.77 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 32977

Ion	Ratio	Lower	Upper
91	100		
92	59.5	28.8	88.8

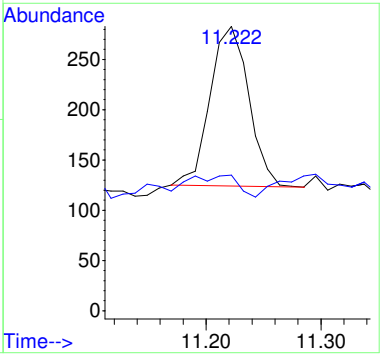


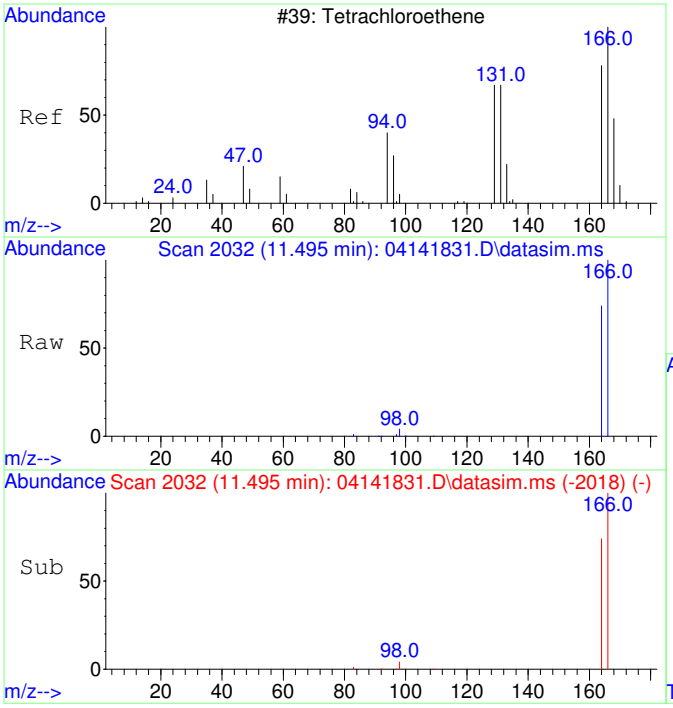


#14
1,1,2-Trichloroethane
Concen: 102.66 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.074 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 97 Resp: 372

Ion	Ratio	Lower	Upper
97	100		
83	17.2	54.3	114.3#

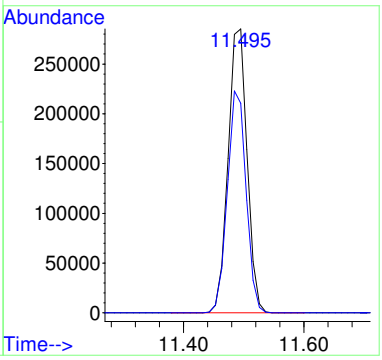


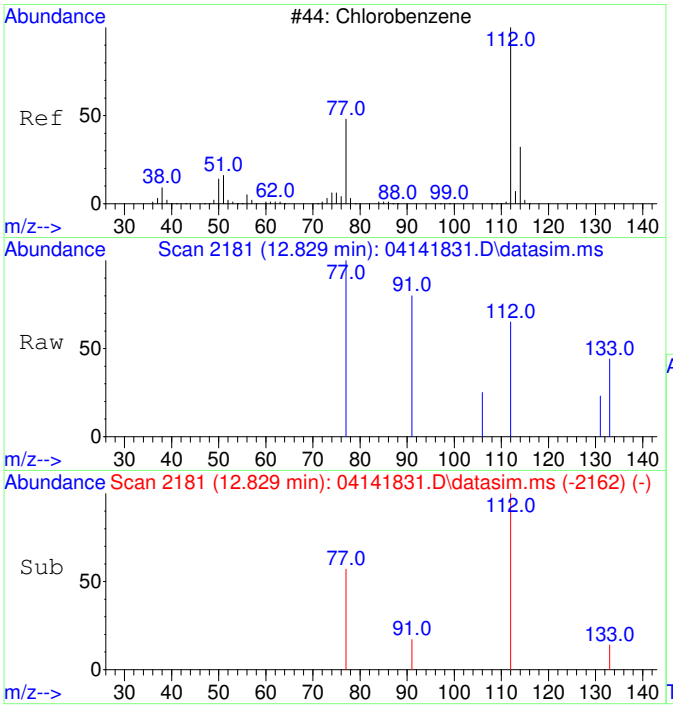


#15
Tetrachloroethene
Concen: 140277.36 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:166 Resp: 630567

Ion	Ratio	Lower	Upper
166	100		
164	77.1	48.0	108.0

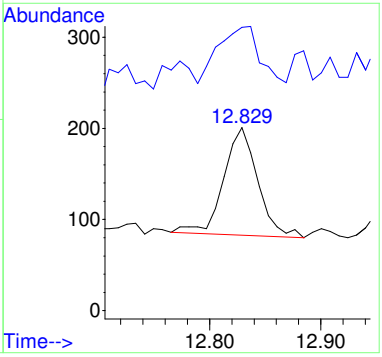


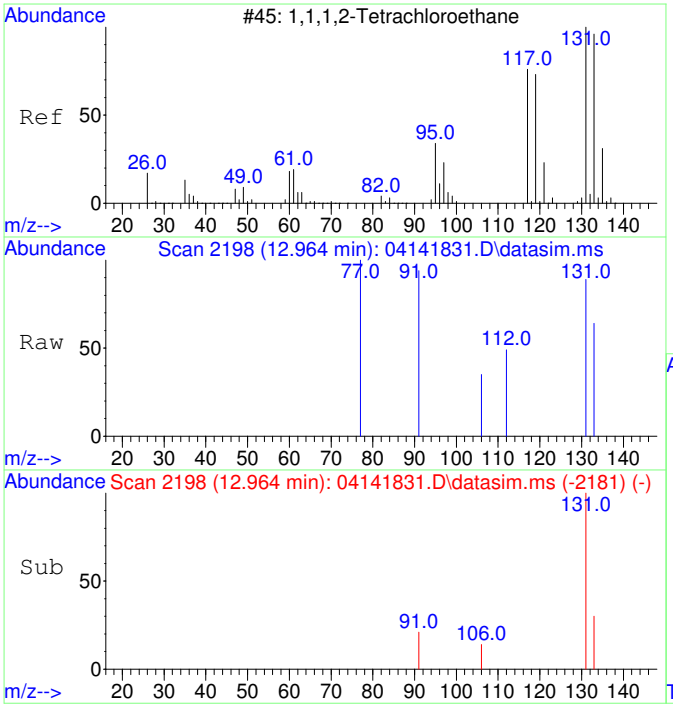


#16
Chlorobenzene
Concen: 21.55 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:112 Resp: 249

Ion	Ratio	Lower	Upper
112	100		
77	69.9	29.4	89.4

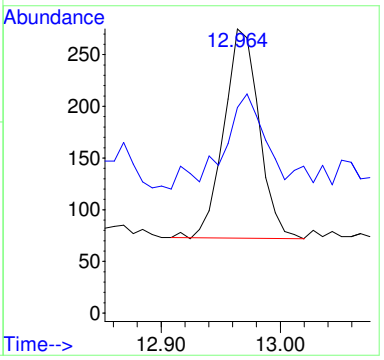


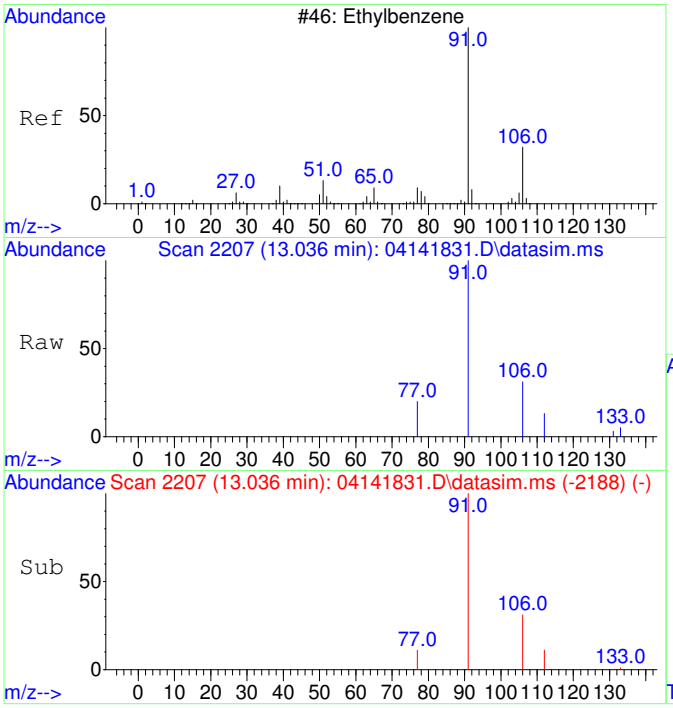


#17
1,1,1,2-Tetrachloroethane
Concen: 107.87 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. -0.016 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:131 Resp: 415

Ion	Ratio	Lower	Upper
131	100		
133	56.4	65.1	125.1#

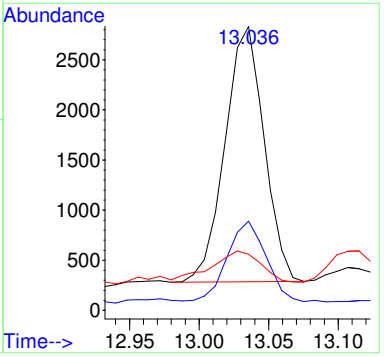


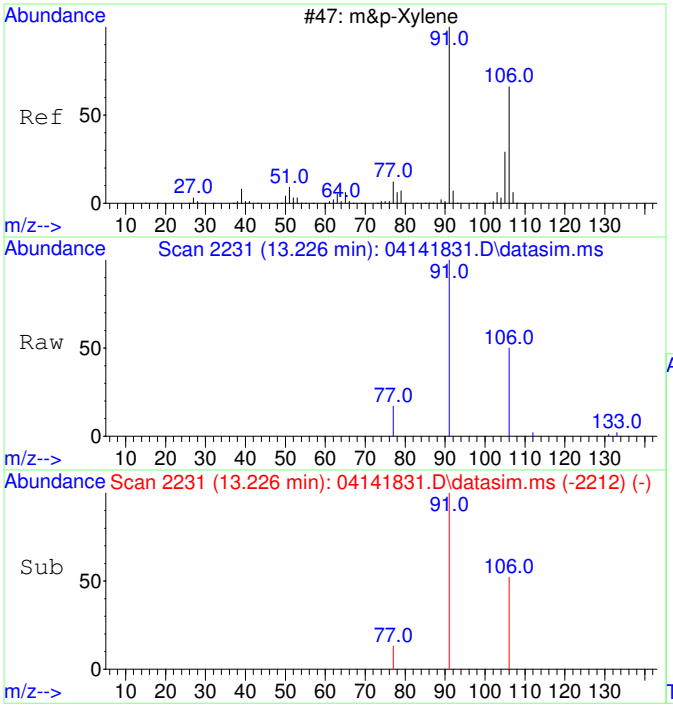


#18
Ethylbenzene
Concen: 267.22 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 4975

Ion	Ratio	Lower	Upper
91	100		
106	31.1	1.8	61.8
77	21.3	0.0	38.7

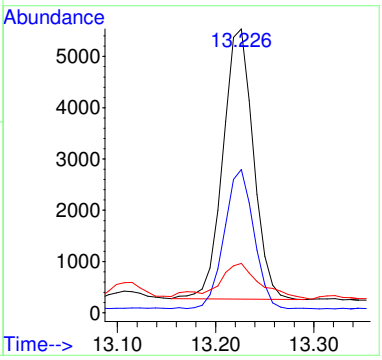


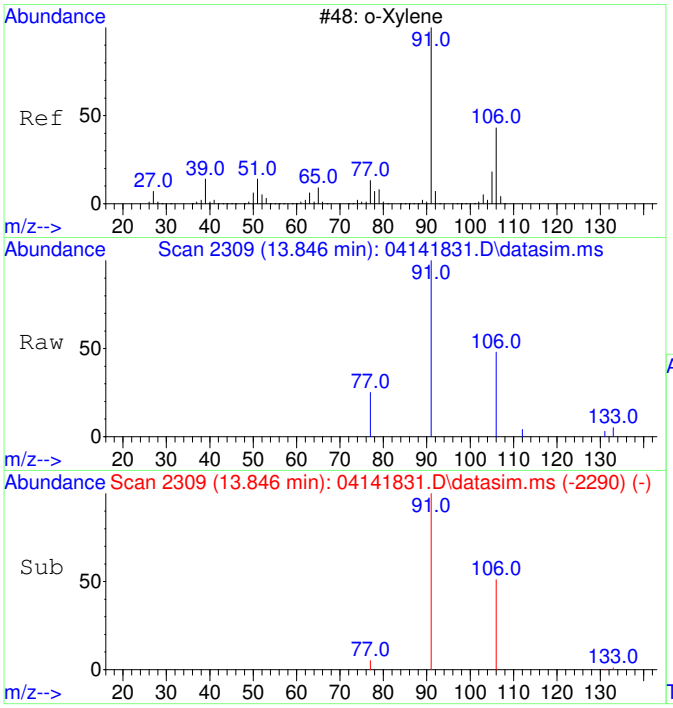


#19
m&p-Xylene
Concen: 774.32 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 11280

Ion	Ratio	Lower	Upper
91	100		
106	50.3	20.0	80.0
77	18.8	0.0	43.4

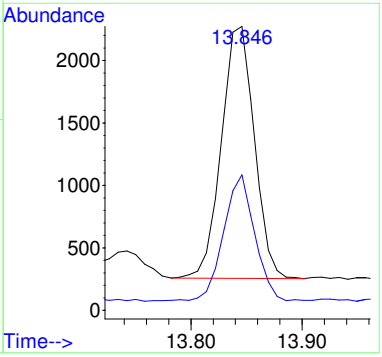


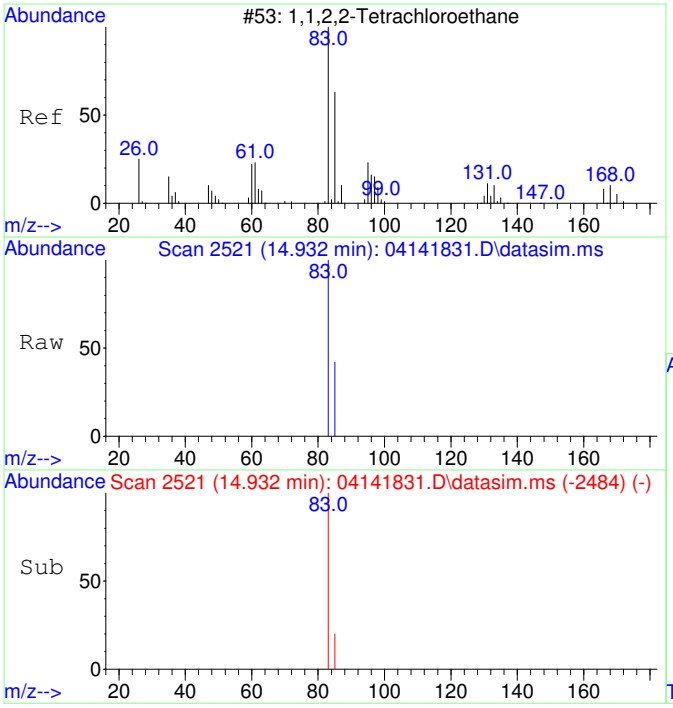


#20
o-Xylene
Concen: 270.67 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 4155

Ion	Ratio	Lower	Upper
91	100		
106	46.9	16.9	76.9

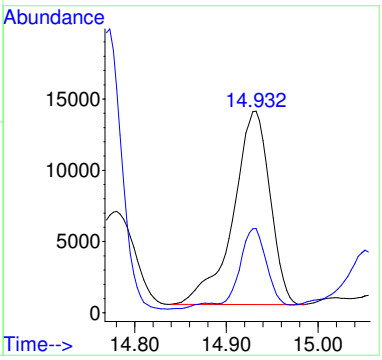


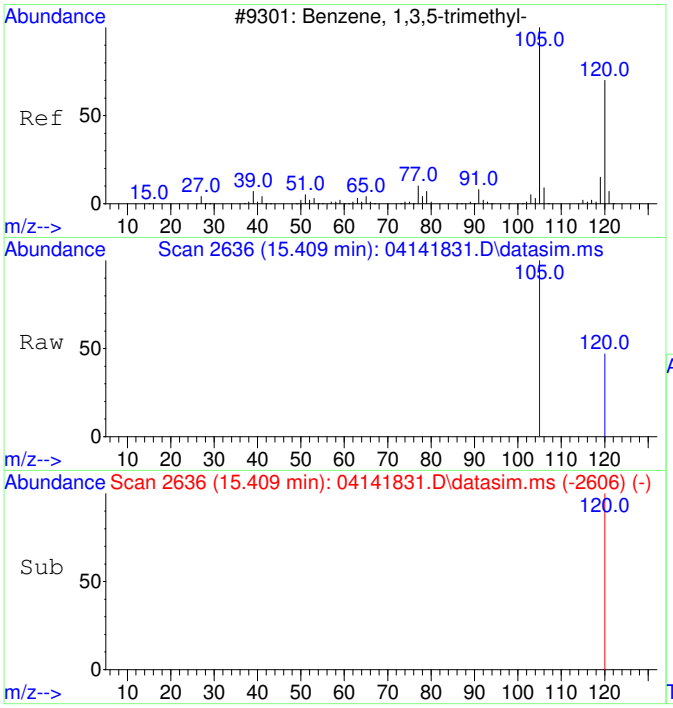


#21
1,1,2,2-Tetrachloroethane
Concen: 5314.90 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.011 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 83 Resp: 37868

Ion	Ratio	Lower	Upper
83	100		
85	27.7	34.3	94.3#

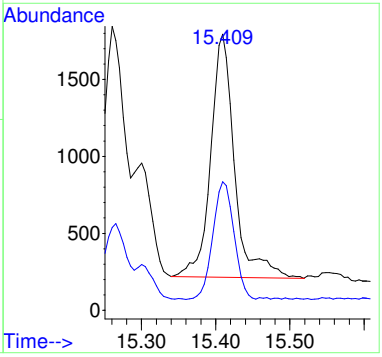


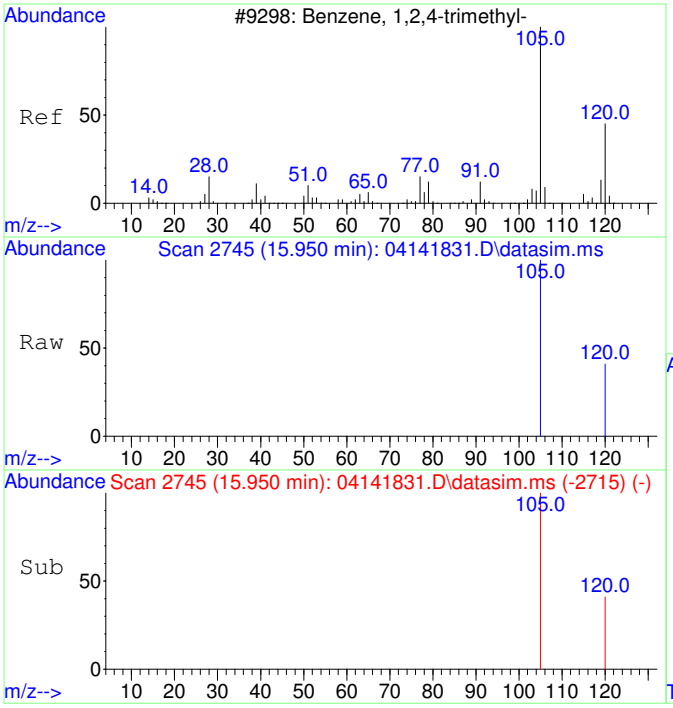


#22
1,3,5-Trimethylbenzene
Concen: 196.31 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:105 Resp: 3527

Ion	Ratio	Lower	Upper
105	100		
120	42.6	18.1	78.1

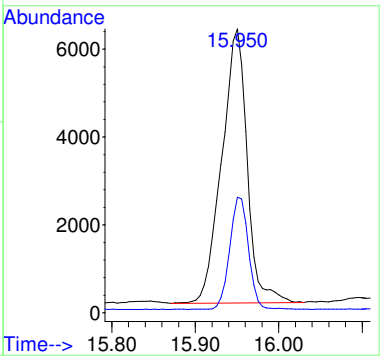


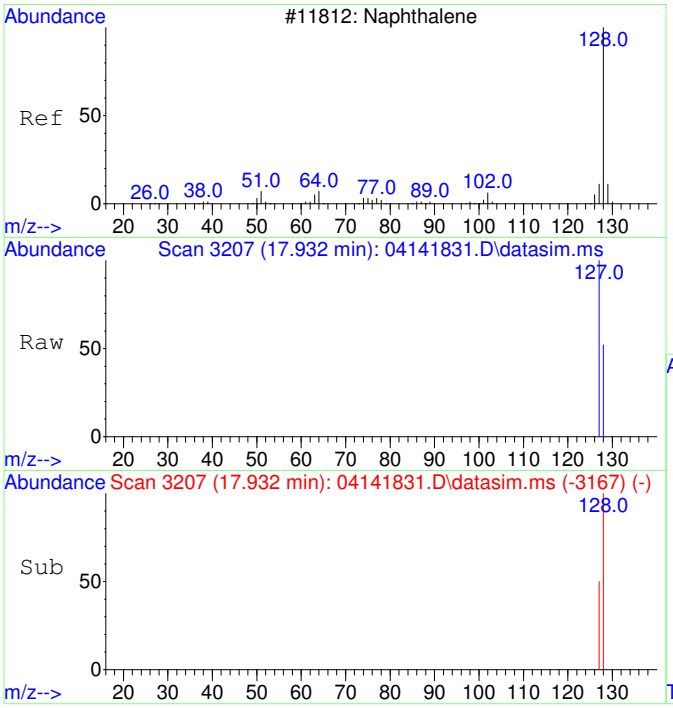


#23
1,2,4-Trimethylbenzene
Concen: 720.67 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:105 Resp: 13171

Ion	Ratio	Lower	Upper
105	100		
120	30.3	14.5	74.5

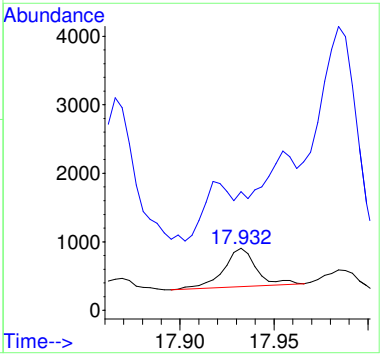


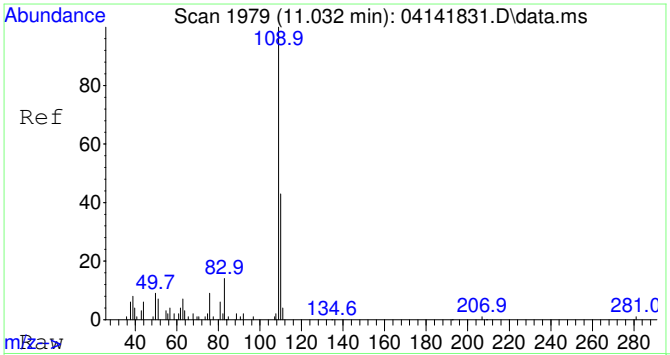


#24
Naphthalene
Concen: 21.87 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:128 Resp: 692

Ion	Ratio	Lower	Upper
128	100		
127	80.2	0.0	42.7#

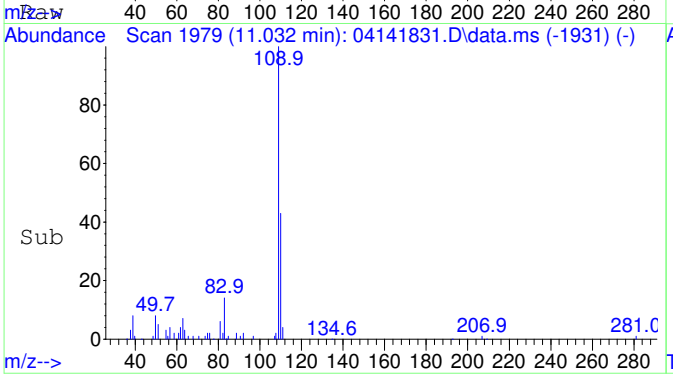


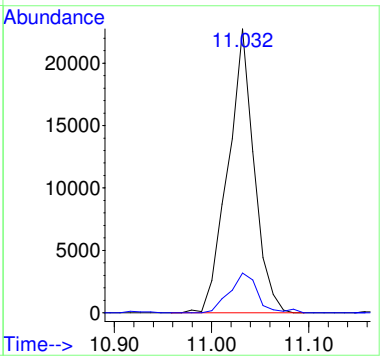


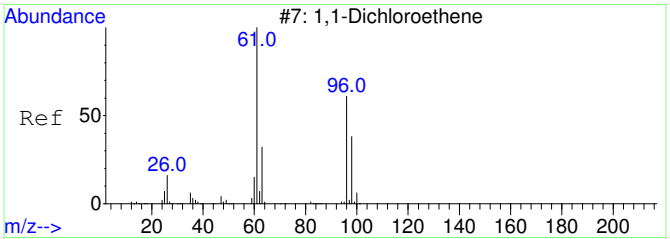
#25
2-Fluorotoluene SCAN
Concen: 5652.70 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:109 Resp: 42402

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	49.2



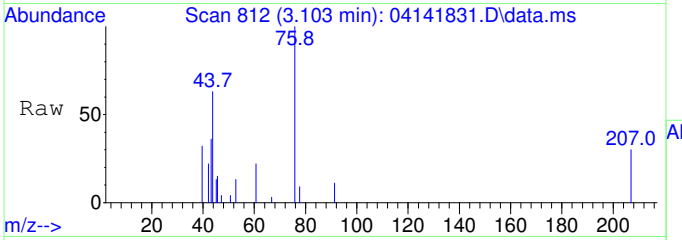


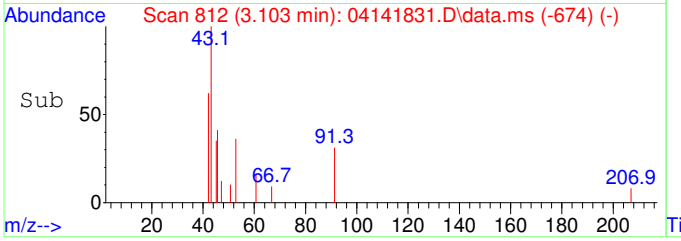


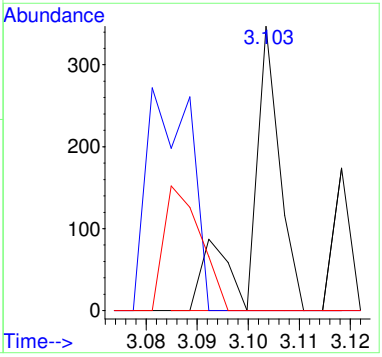
#26
1,1-Dichloroethene SCAN
Concen: 81.80 ug/L
RT: 3.103 min Scan# 812
Delta R.T. 0.011 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

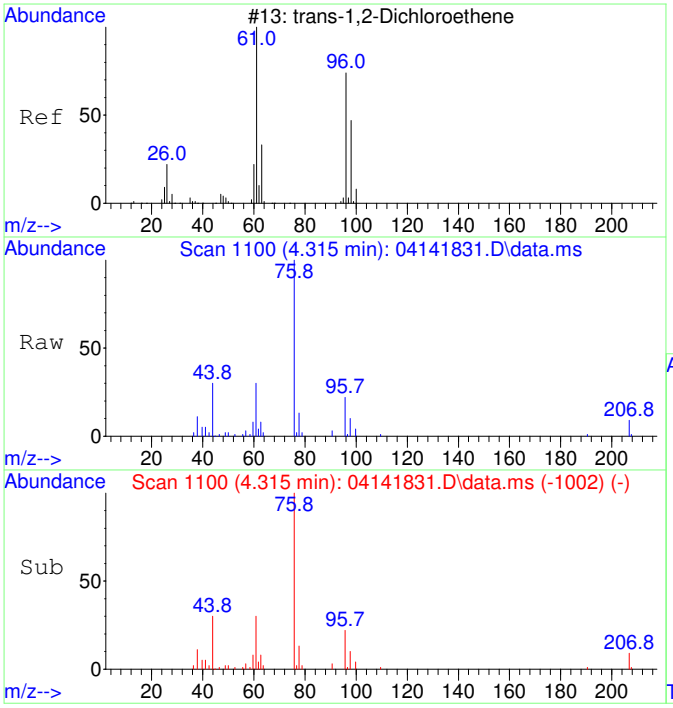
Tgt Ion: 61 Resp: 136

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.6	81.6#
98	0.0	7.5	67.5#





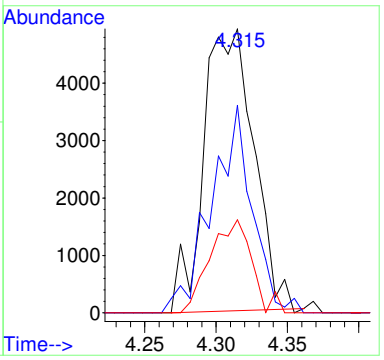


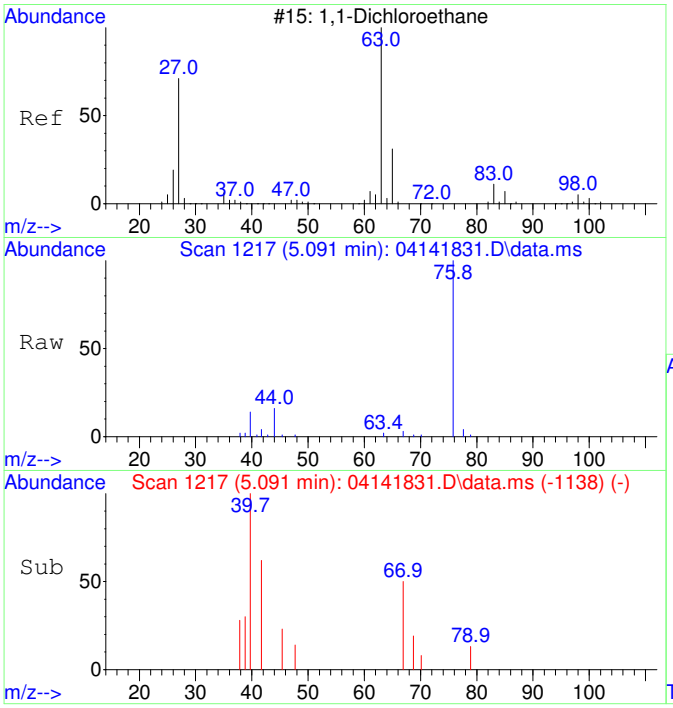


#27
trans-1,2-Dichloroethene SCAN
Concen: 7388.85 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. 0.007 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 12036

Ion	Ratio	Lower	Upper
61	100		
96	59.7	51.8	111.8
98	27.5	22.7	82.7

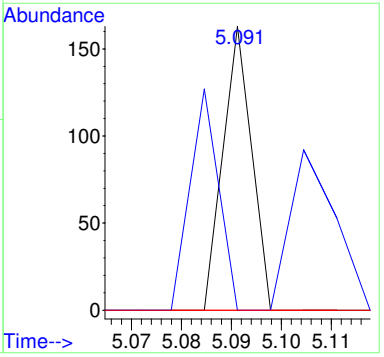


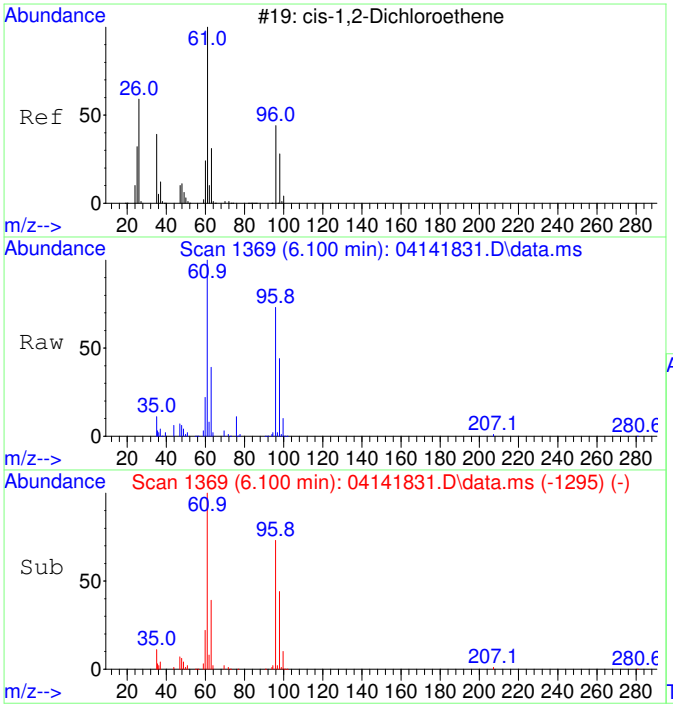


#28
1,1-Dichloroethane SCAN
Concen: 26.08 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. 0.027 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 63 Resp: 65

Ion	Ratio	Lower	Upper
63	100		
65	78.5	2.2	62.2#
83	0.0	0.0	38.2

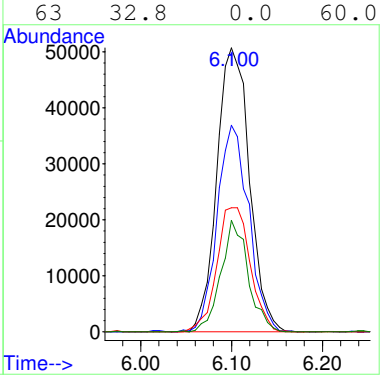


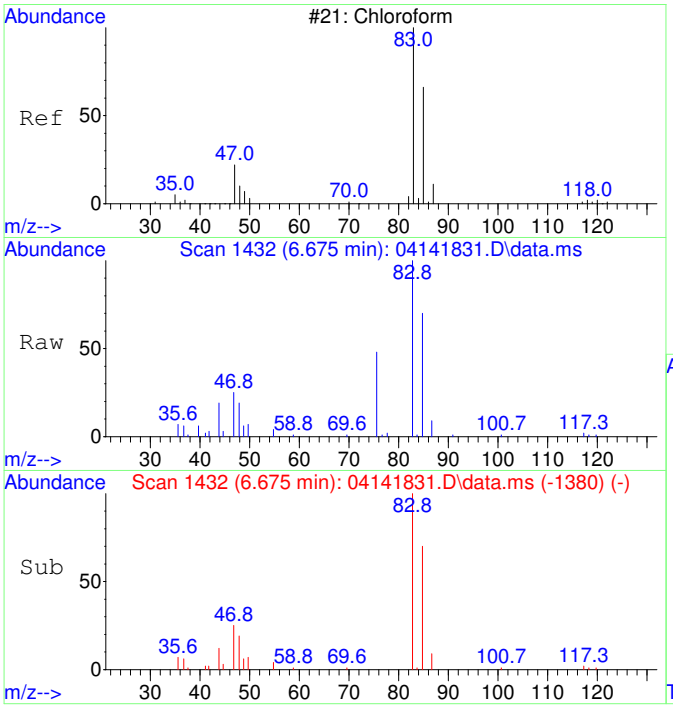


#29
cis-1,2-Dichloroethene SCAN
Concen: 64820.28 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.007 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 126822

Ion	Ratio	Lower	Upper
61	100		
96	70.5	49.4	109.4
98	45.0	9.5	69.5
63	32.8	0.0	60.0

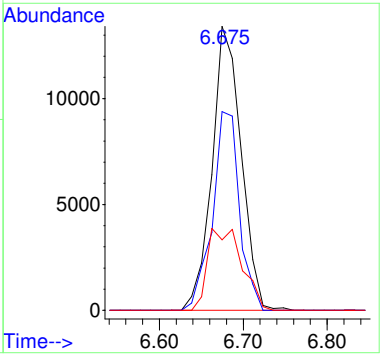


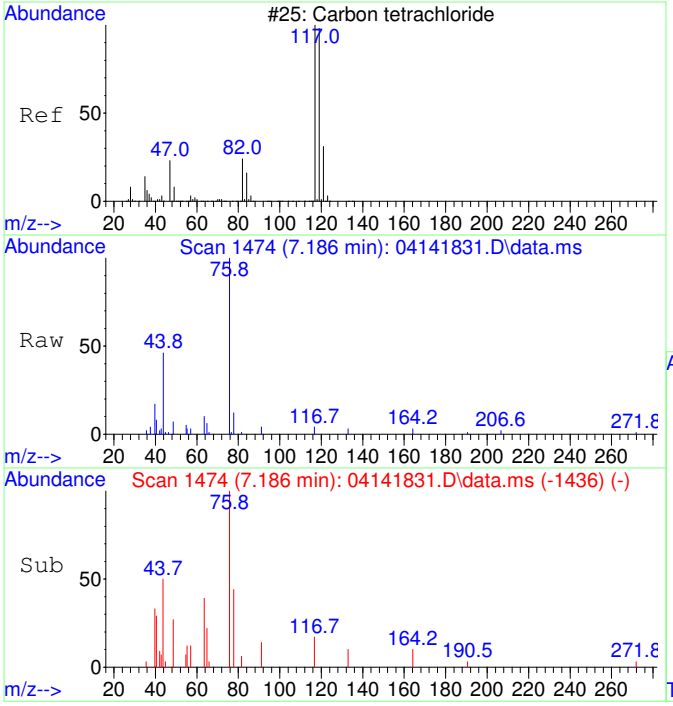


#30
Chloroform SCAN
Concen: 13698.86 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 83 Resp: 32338

Ion	Ratio	Lower	Upper
83	100		
85	64.8	47.8	107.8
47	34.2	8.2	68.2

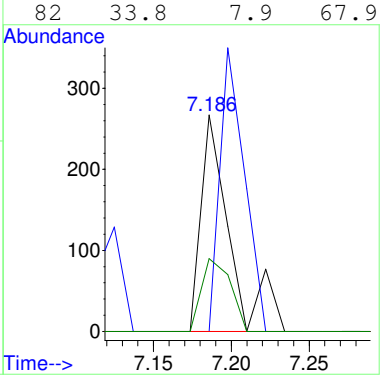


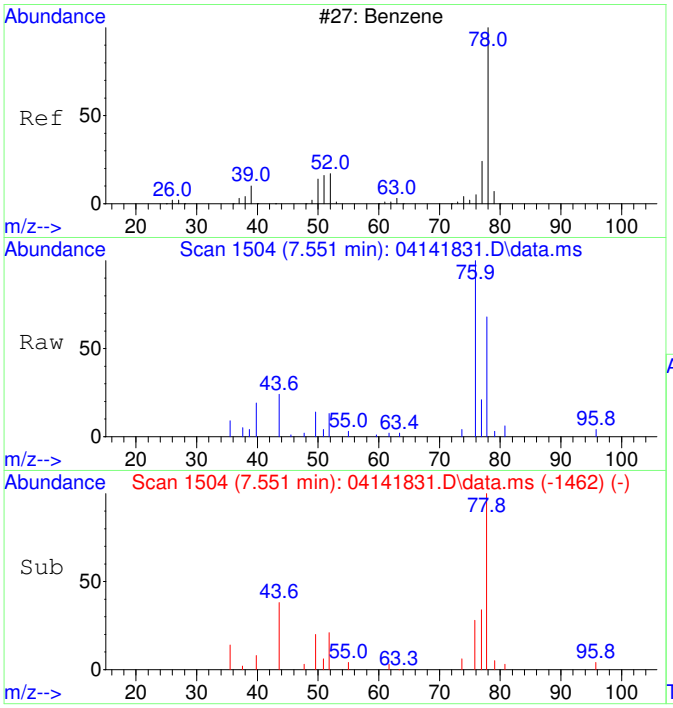


#32
Carbon tetrachloride SCAN
Concen: 162.39 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. -0.037 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:117 Resp: 346

Ion	Ratio	Lower	Upper
117	100		
119	111.0	54.4	114.4
121	0.0	0.0	53.0
82	33.8	7.9	67.9

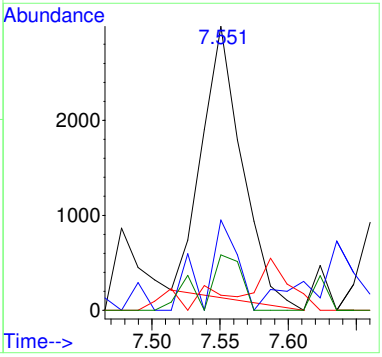


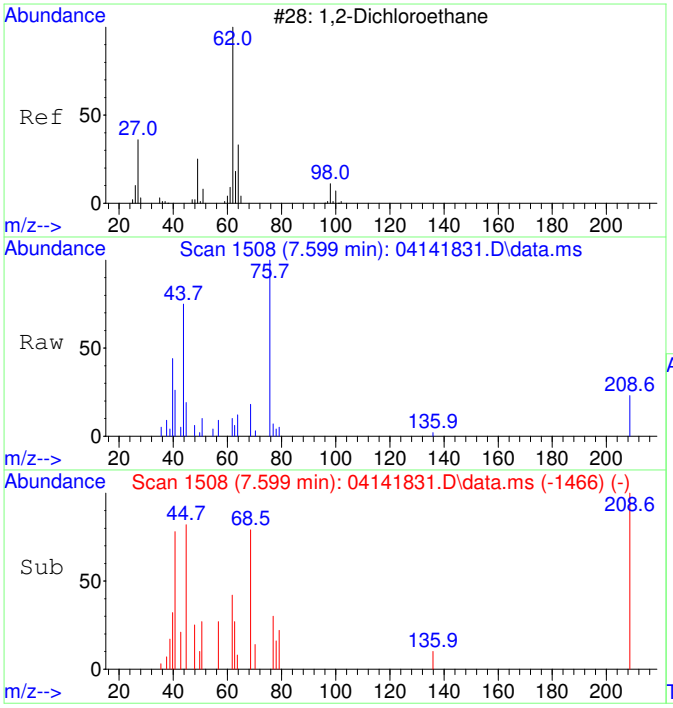


#33
Benzene SCAN
Concen: 889.35 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 78 Resp: 5744

Ion	Ratio	Lower	Upper
78	100		
77	18.5	5.4	65.4
51	0.0	0.0	47.2
52	19.7	0.0	47.4

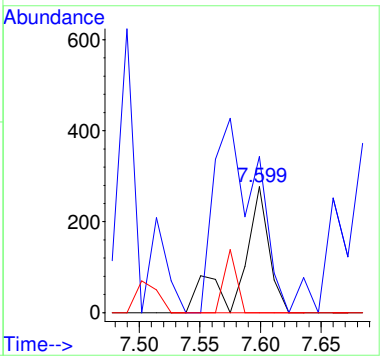


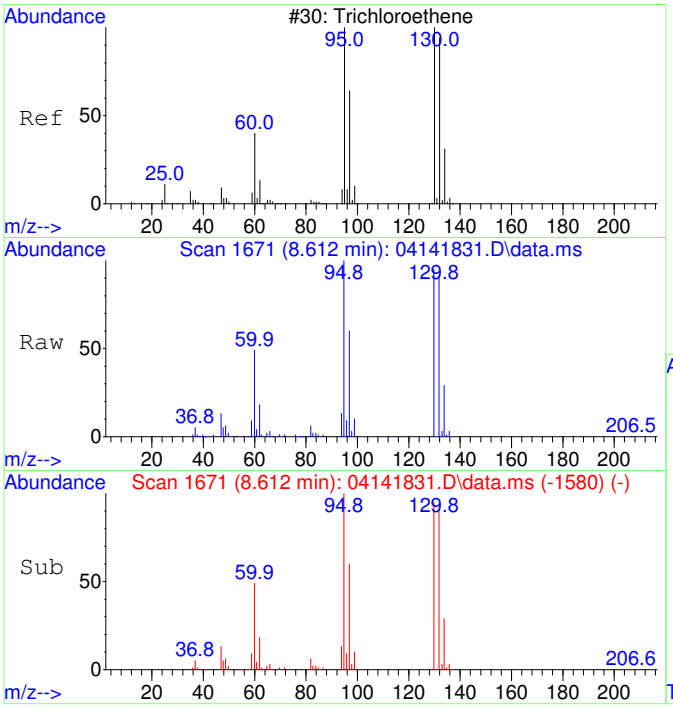


#34
1,2-Dichloroethane SCAN
Concen: 180.48 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 62 Resp: 442

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	0.0	1.2	61.2#

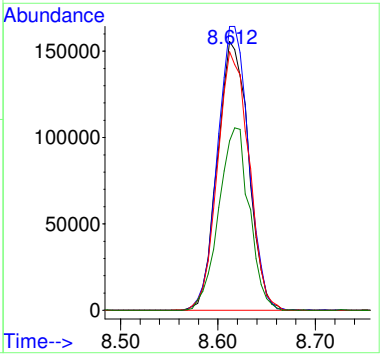


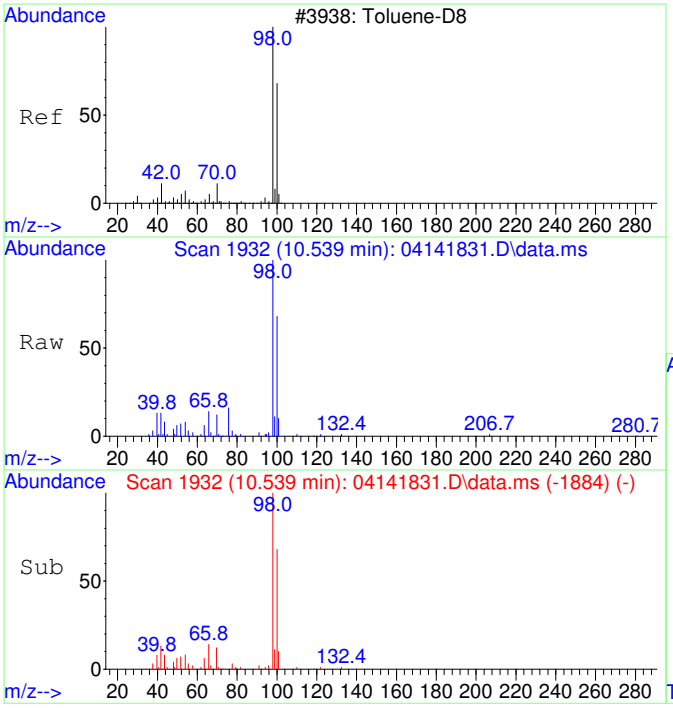


#35
Trichloroethene SCAN
Concen: 213274.89 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:130 Resp: 346082

Ion	Ratio	Lower	Upper
130	100		
95	105.0	71.3	131.3
132	96.8	75.1	135.1
97	66.4	41.3	101.3

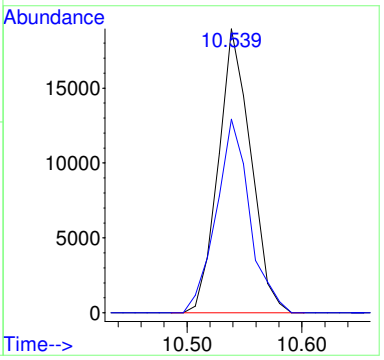


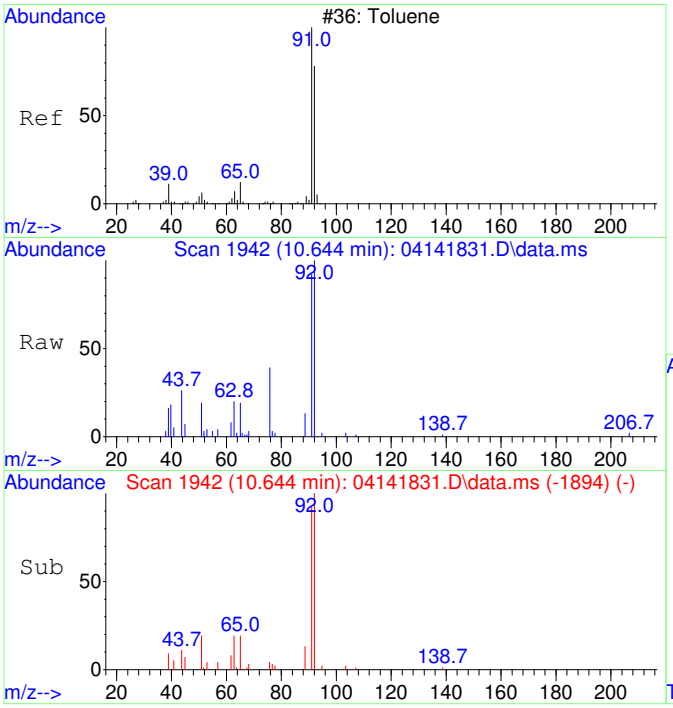


#36
Toluene-d8 SCAN
Concen: 5653.14 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 98 Resp: 37232

Ion	Ratio	Lower	Upper
98	100		
100	70.7	37.3	97.3

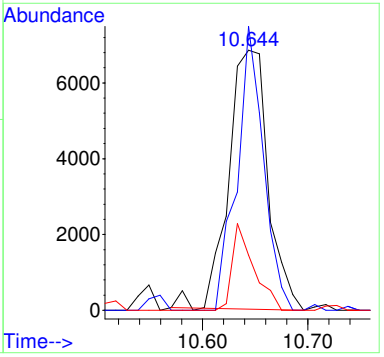


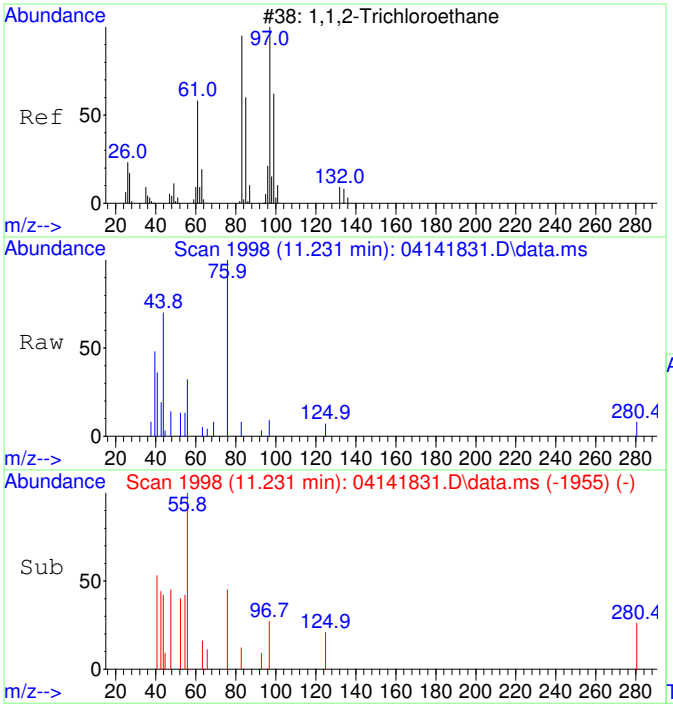


#37
Toluene SCAN
Concen: 2413.31 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 17776

Ion	Ratio	Lower	Upper
91	100		
92	74.0	39.1	99.1
65	18.3	0.0	43.8

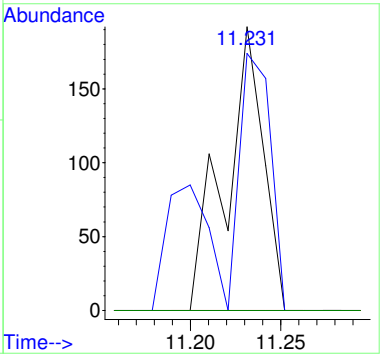


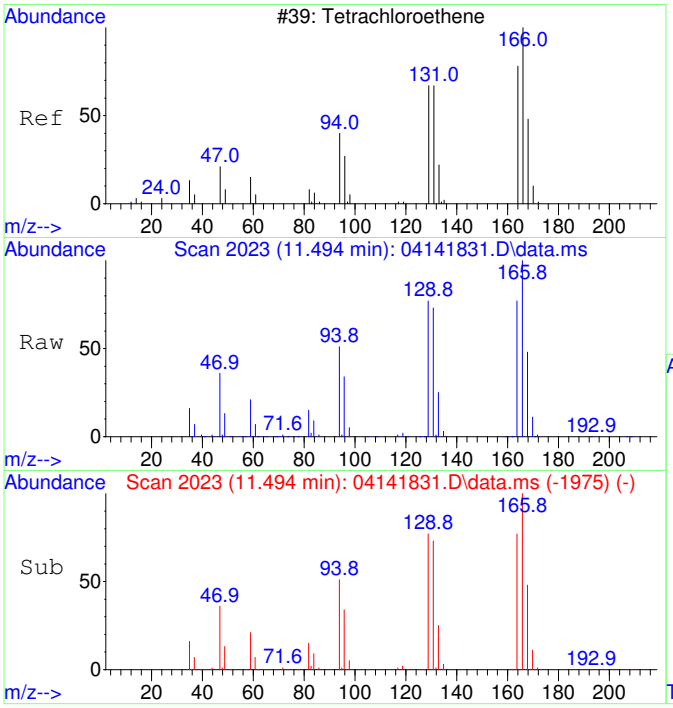


#38
1,1,2-Trichloroethane SCAN
Concen: 125.46 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.053 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 97 Resp: 283

Ion	Ratio	Lower	Upper
97	100		
83	73.5	47.4	107.4
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

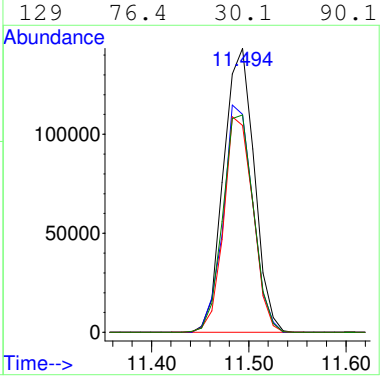


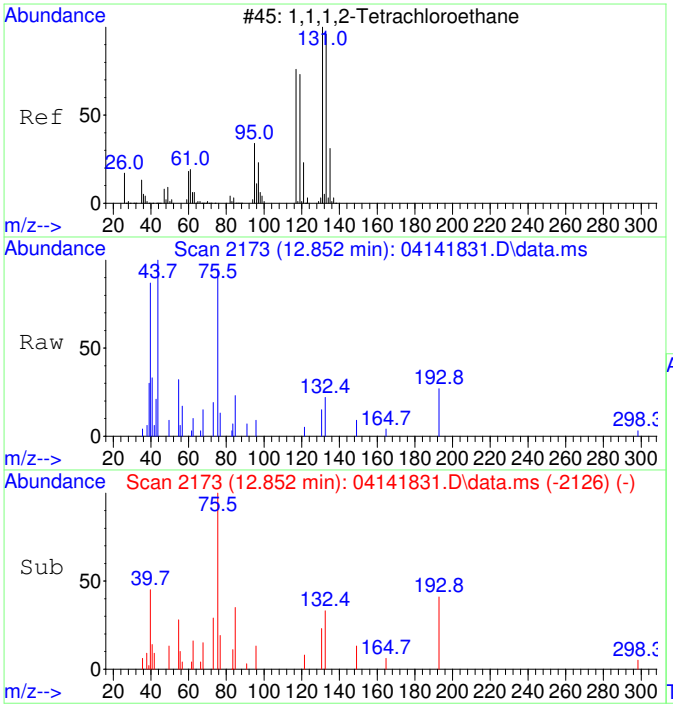


#39
Tetrachloroethene SCAN
Concen: 131059.49 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:166 Resp: 314819

Ion	Ratio	Lower	Upper
166	100		
164	76.9	49.8	109.8
131	72.2	42.0	102.0
129	76.4	30.1	90.1

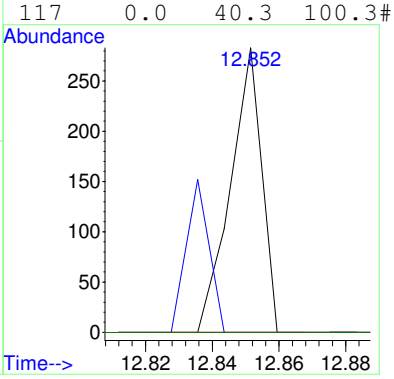


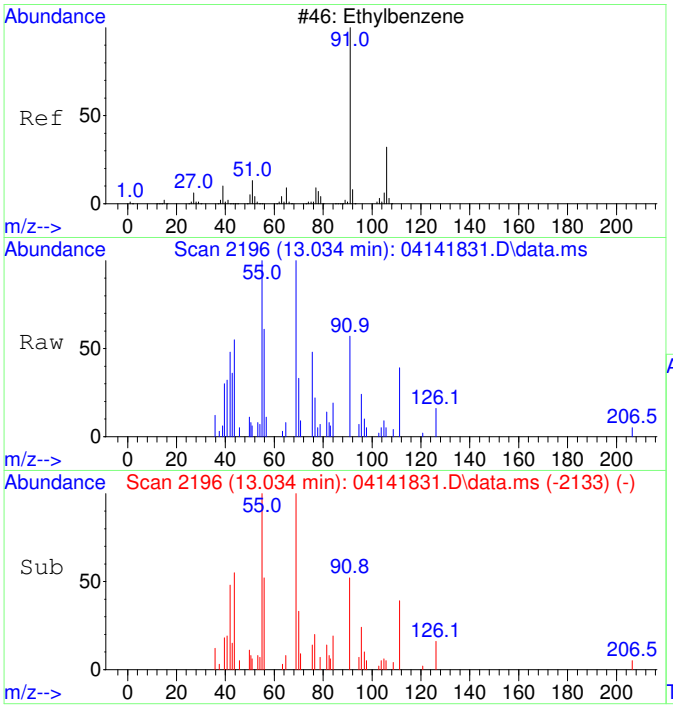


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 97.78 ug/L
RT: 12.852 min Scan# 2173
Delta R.T. -0.127 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:131 Resp: 184

Ion	Ratio	Lower	Upper
131	100		
133	39.1	78.7	138.7#
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

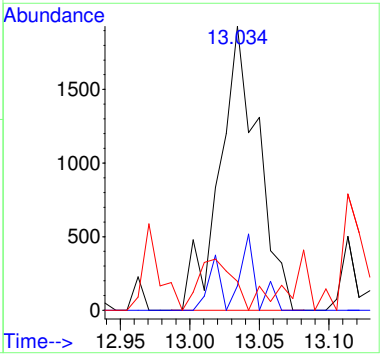


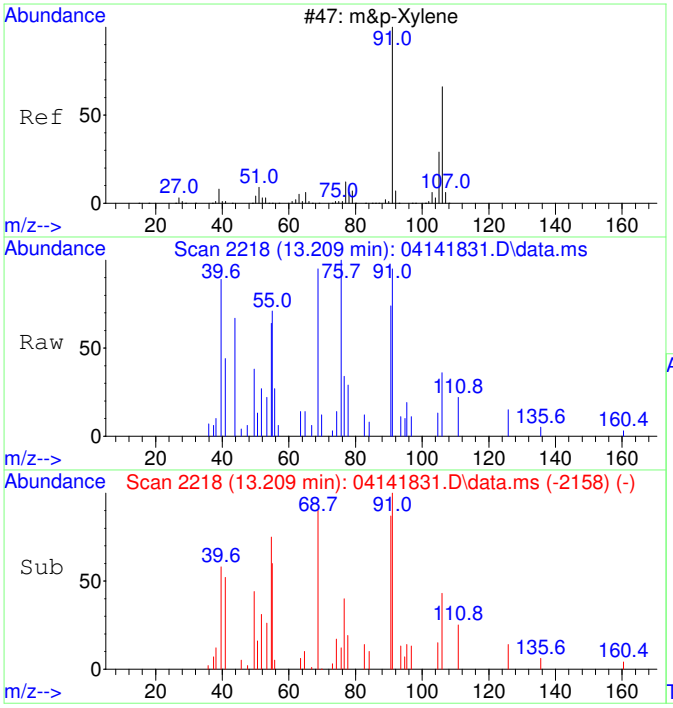


#42
Ethylbenzene SCAN
Concen: 386.12 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 3728

Ion	Ratio	Lower	Upper
91	100		
106	11.2	1.8	61.8
51	0.0	0.0	45.4

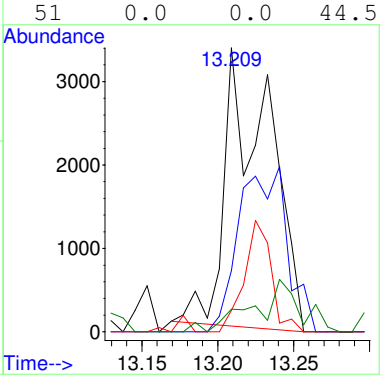


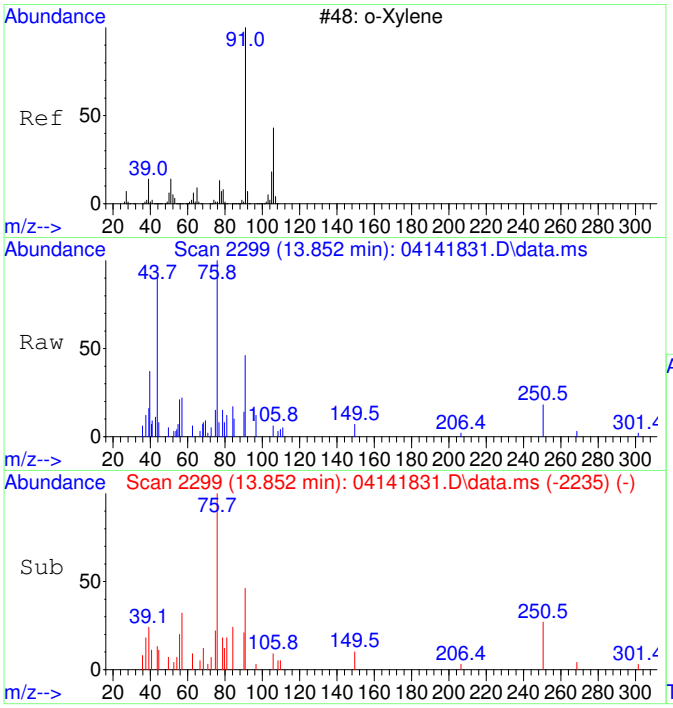


#43
m&p-Xylene SCAN
Concen: 440.15 ug/L
RT: 13.209 min Scan# 2218
Delta R.T. -0.024 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 6916

Ion	Ratio	Lower	Upper
91	100		
106	0.0	14.6	74.6#
105	0.0	0.0	52.8
51	0.0	0.0	44.5

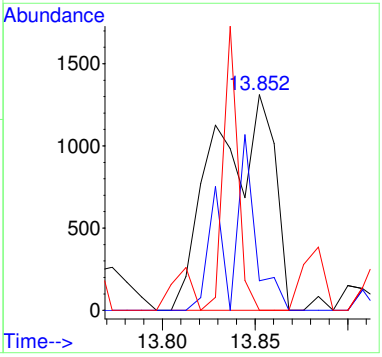


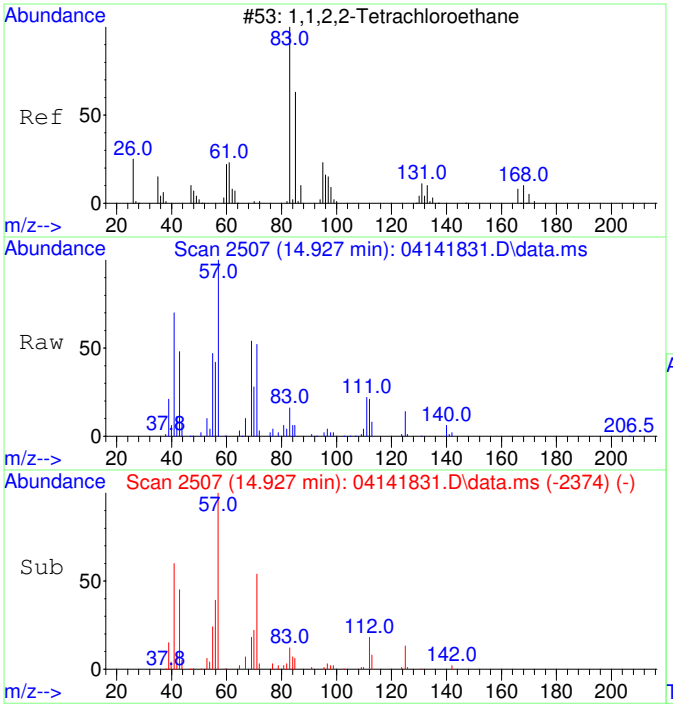


#44
o-Xylene SCAN
Concen: 341.67 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. 0.008 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 2907

Ion	Ratio	Lower	Upper
91	100		
106	23.7	20.2	80.2
105	39.5	0.0	54.9

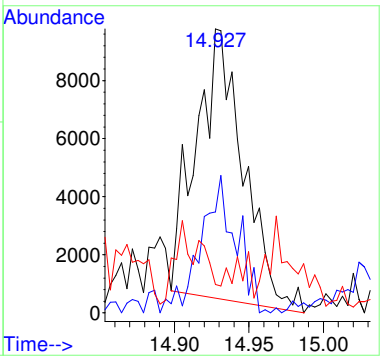


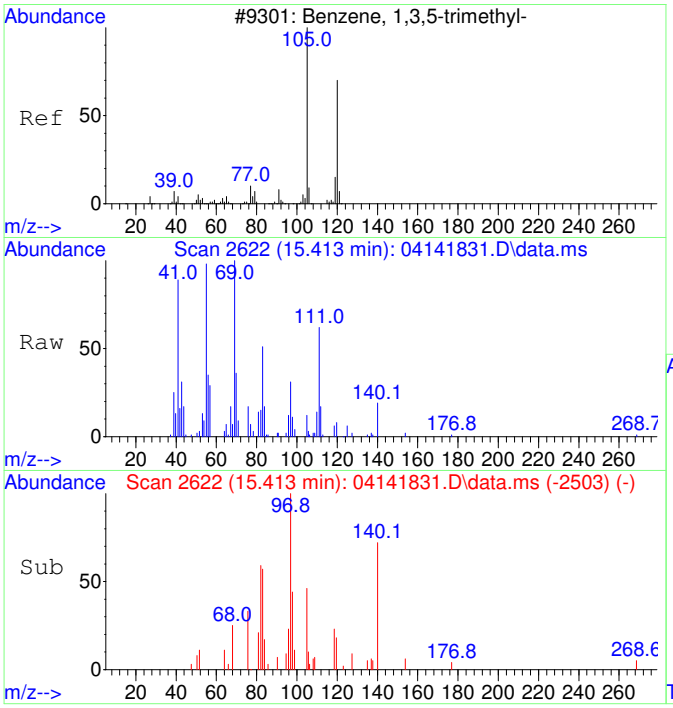


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 4607.29 ug/L
RT: 14.927 min Scan# 2507
Delta R.T. -0.007 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 83 Resp: 20518

Ion	Ratio	Lower	Upper
83	100		
85	37.6	32.4	92.4
95	0.0	0.0	41.2

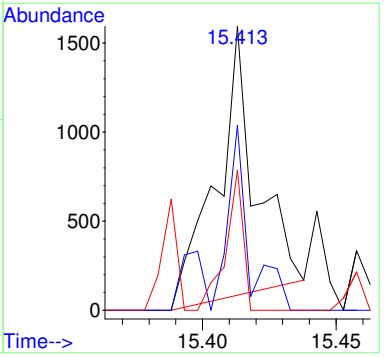


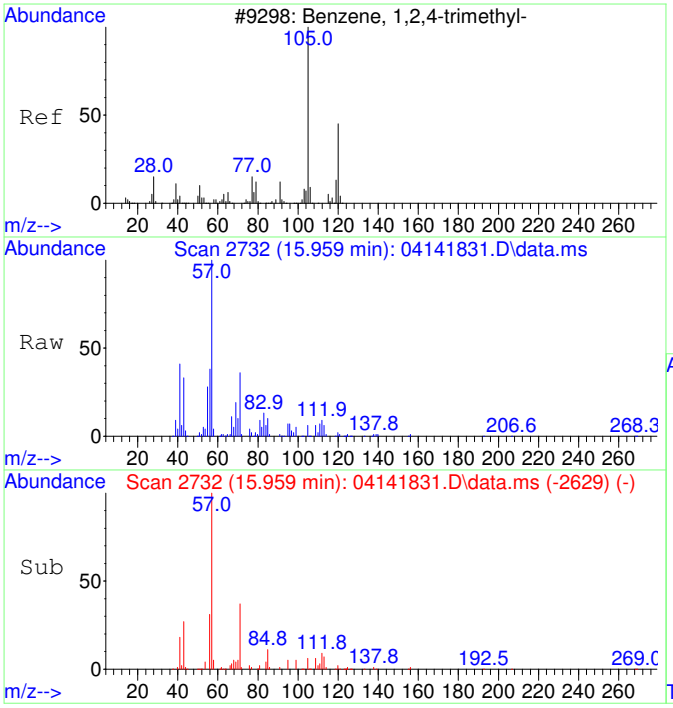


#46
1,3,5-Trimethylbenzene SCAN
Concen: 157.27 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.001 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:105 Resp: 1538

Ion	Ratio	Lower	Upper
105	100		
120	49.6	16.1	76.1
119	23.0	0.0	41.8

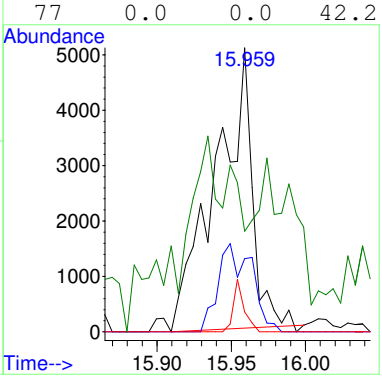


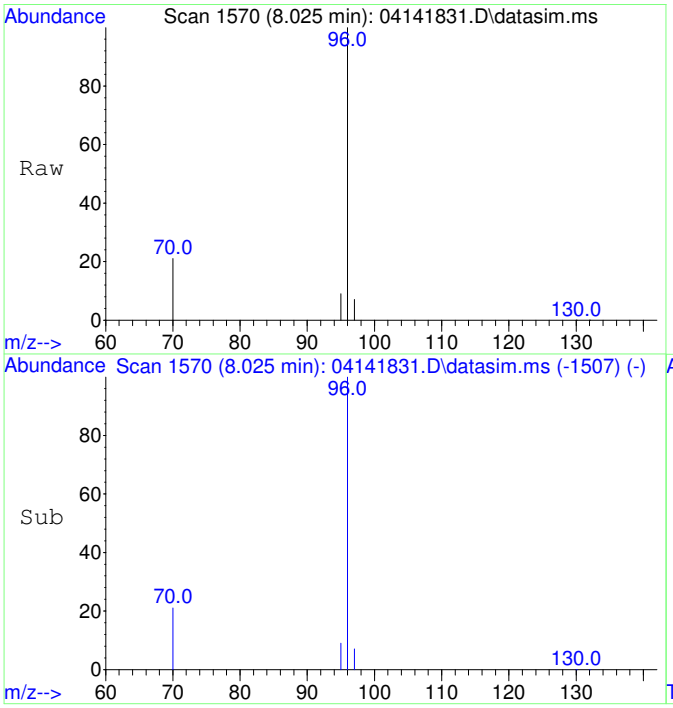


#47
1,2,4-Trimethylbenzene SCAN
Concen: 885.42 ug/L
RT: 15.959 min Scan# 2732
Delta R.T. 0.011 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:105 Resp: 8728

Ion	Ratio	Lower	Upper
105	100		
120	28.6	12.8	72.8
119	5.5	0.0	42.5
77	0.0	0.0	42.2

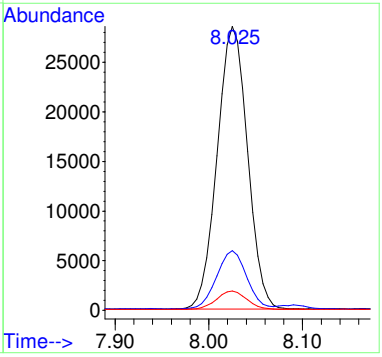




#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 96 Resp: 63916

Ion	Ratio	Lower	Upper
96	100		
70	21.4	0.0	50.7
97	6.4	0.0	36.7



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141831.D
Acq On : 14 Apr 2018 22:44
InstName : AG5975C
Operator : RH
Sample : 1804005-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

M.I. Performed By:
RH at 10:00 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:17 pm, Apr 16, 2018

Quant Time: Apr 16 09:40:26 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

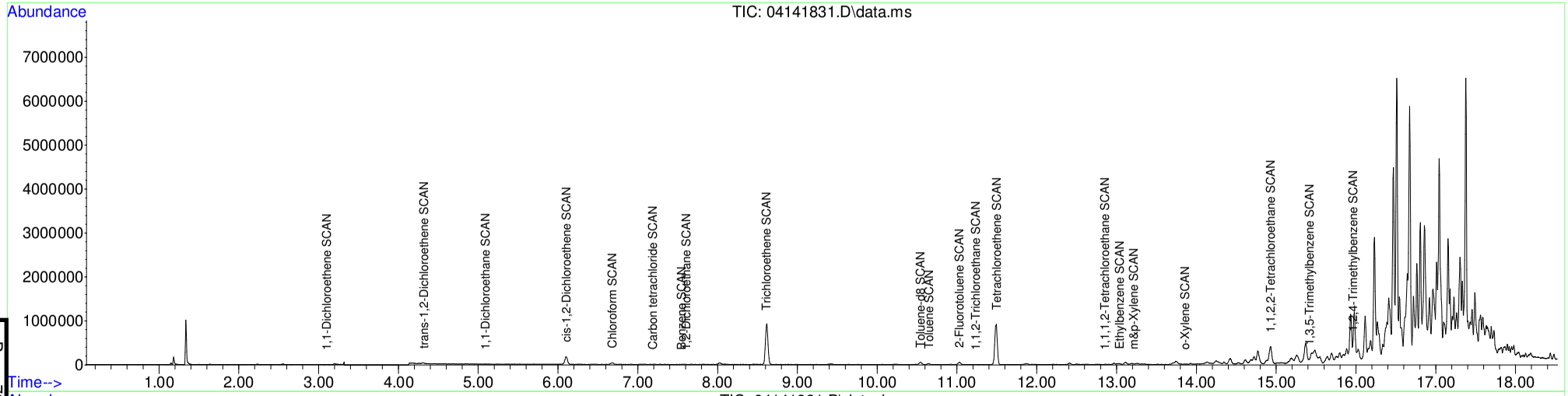
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	77631	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	63916	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	67214	5158.34 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.17%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	584m	171.38 ug/L	
3] trans-1,2-Dichloroethene	4.303	61	19497	5599.49 ug/L	100
4] 1,1-Dichloroethane	5.066	63	106	22.86 ug/L	76
5] cis-1,2-Dichloroethene	6.101	61	207149	48296.58 ug/L	99 OC
6] Chloroform	6.676	83	54025	10710.15 ug/L	99
7] 1,1,1-Trichloroethane	6.931	97	231	46.90 ug/L #	80
8] Carbon tetrachloride	7.211	117	1352	300.87 ug/L	97
9] Benzene	7.540	78	6416	515.95 ug/L	97
10] 1,2-Dichloroethane	7.576	62	256	59.04 ug/L #	20
11] Trichloroethene	8.613	130	639577	186667.39 ug/L	99 OC
13] Toluene	10.634	91	32977	2010.77 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	372	102.66 ug/L #	26
15] Tetrachloroethene	11.495	166	630567	140277.36 ug/L	99 OC
16] Chlorobenzene	12.829	112	249	21.55 ug/L	86
17] 1,1,1,2-Tetrachloroethane	12.964	131	415	107.87 ug/L #	60
18] Ethylbenzene	13.036	91	4975	267.22 ug/L	91
19] m&p-Xylene	13.226	91	11280	774.32 ug/L	97
20] o-Xylene	13.846	91	4155	270.67 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.932	83	37868	5314.90 ug/L #	53
22] 1,3,5-Trimethylbenzene	15.409	105	3527	196.31 ug/L	92
23] 1,2,4-Trimethylbenzene	15.950	105	13171	720.67 ug/L	78
24] Naphthalene	17.932	128	692	21.87 ug/L #	1
25) 2-Fluorotoluene SCAN	11.032	109	42402	5652.70 ug/L	91
26) 1,1-Dichloroethene SCAN	3.103	61	136	81.80 ug/L #	31
27) trans-1,2-Dichloroethe...	4.315	61	12036	7388.85 ug/L	71
28) 1,1-Dichloroethane SCAN	5.091	63	65	26.08 ug/L #	29
29) cis-1,2-Dichloroethene...	6.100	61	126822	64820.28 ug/L	91
30) Chloroform SCAN	6.675	83	32338	13698.86 ug/L	88
32) Carbon tetrachloride SCAN	7.186	117	346	162.39 ug/L #	74
33) Benzene SCAN	7.551	78	5744	889.35 ug/L #	74
34) 1,2-Dichloroethane SCAN	7.599	62	442	180.48 ug/L #	42
35) Trichloroethene SCAN	8.612	130	346082	213274.89 ug/L	94
36) Toluene-d8 SCAN	10.539	98	37232	5653.14 ug/L	96
37) Toluene SCAN	10.644	91	17776	2413.31 ug/L	93
38) 1,1,2-Trichloroethane ...	11.231	97	283	125.46 ug/L #	51
39) Tetrachloroethene SCAN	11.494	166	314819	131059.49 ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.852	131	184	97.78 ug/L #	22
42) Ethylbenzene SCAN	13.034	91	3728	386.12 ug/L #	63
43) m&p-Xylene SCAN	13.209	91	6916	440.15 ug/L #	43
44) o-Xylene SCAN	13.852	91	2907	341.67 ug/L	65
45) 1,1,2,2-Tetrachloroeth...	14.927	83	20518	4607.29 ug/L #	68
46) 1,3,5-Trimethylbenzene...	15.413	105	1538	157.27 ug/L	90
47) 1,2,4-Trimethylbenzene...	15.959	105	8728	885.42 ug/L #	77

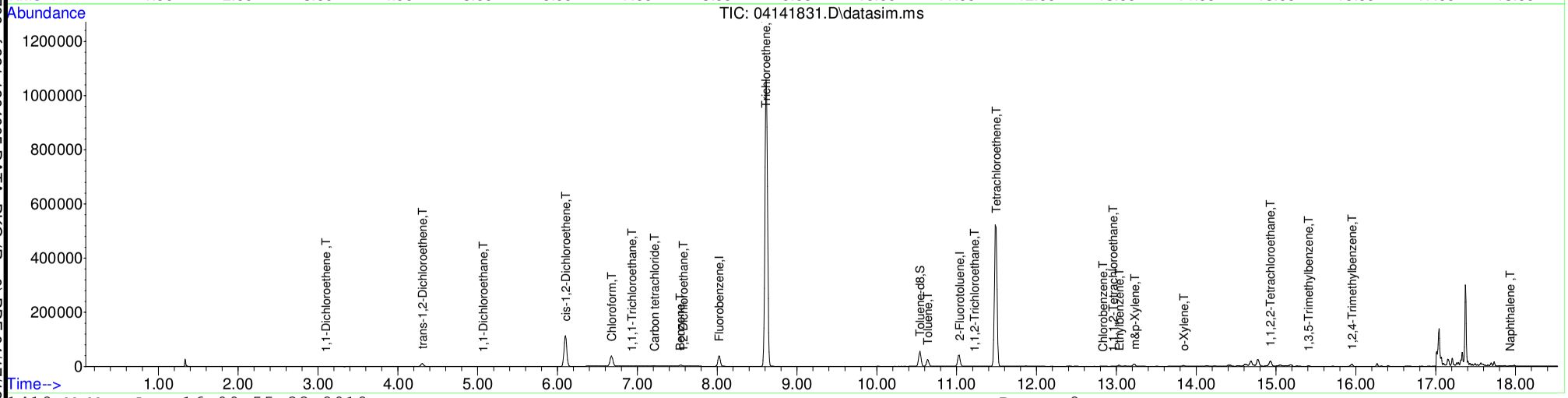
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141831.D
Acq On : 14 Apr 2018 22:44
InstName : AG5975C
Operator : RH
Sample : 1804005-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Apr 16 09:40:26 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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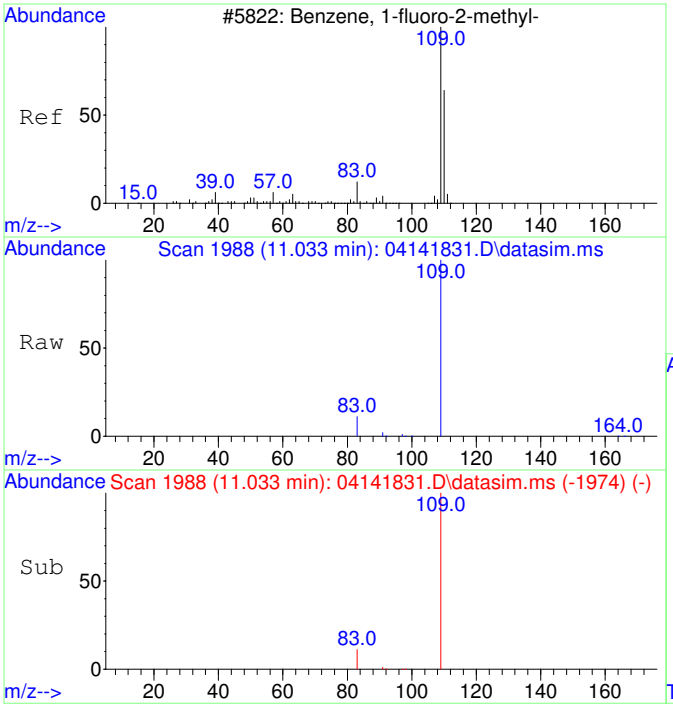
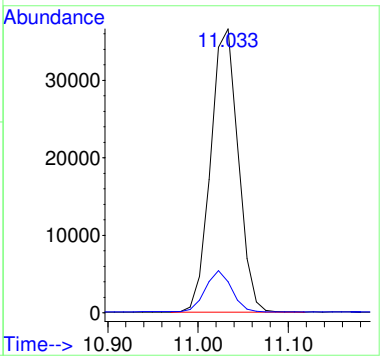
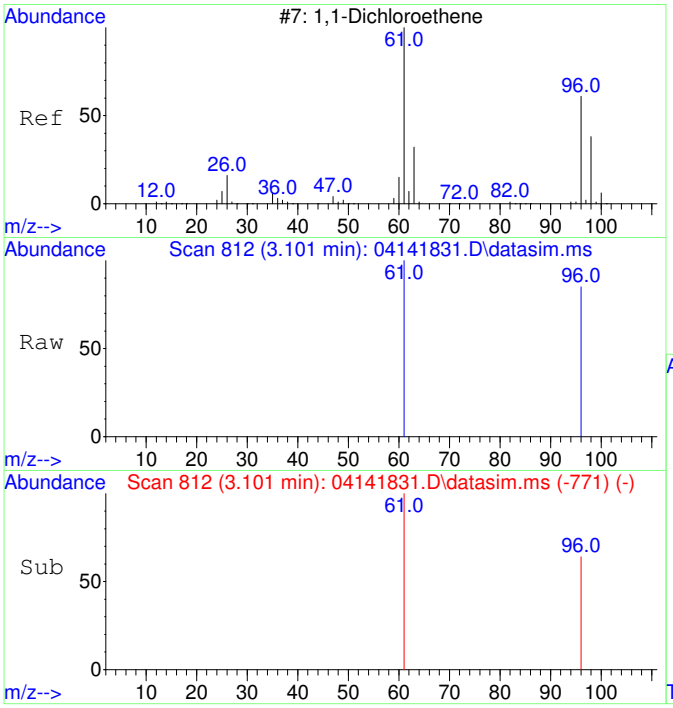


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:109 Resp: 77631

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	44.4

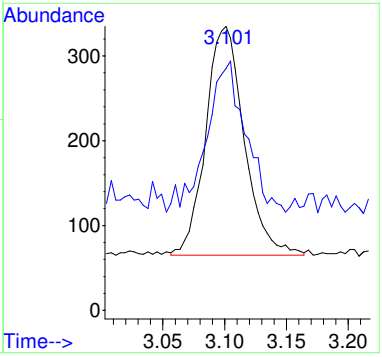


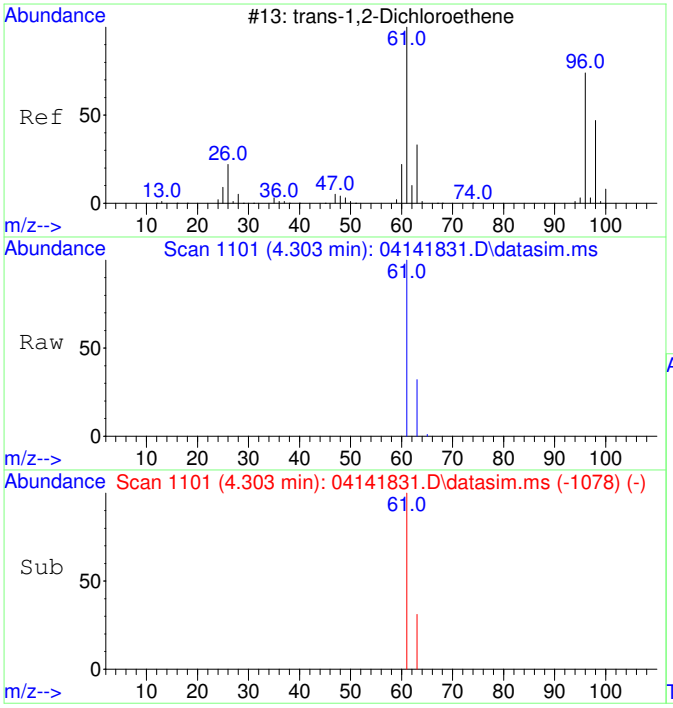


#2
1,1-Dichloroethene
Concen: 171.38 ug/L m
RT: 3.101 min Scan# 812
Delta R.T. 0.004 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 584

Ion	Ratio	Lower	Upper
61	100		
96	102.6	26.1	86.1#

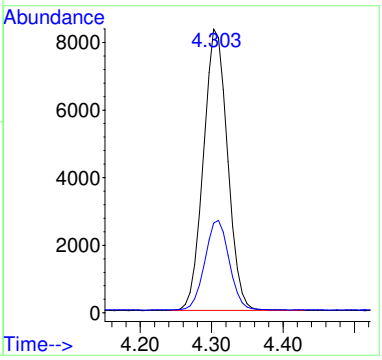


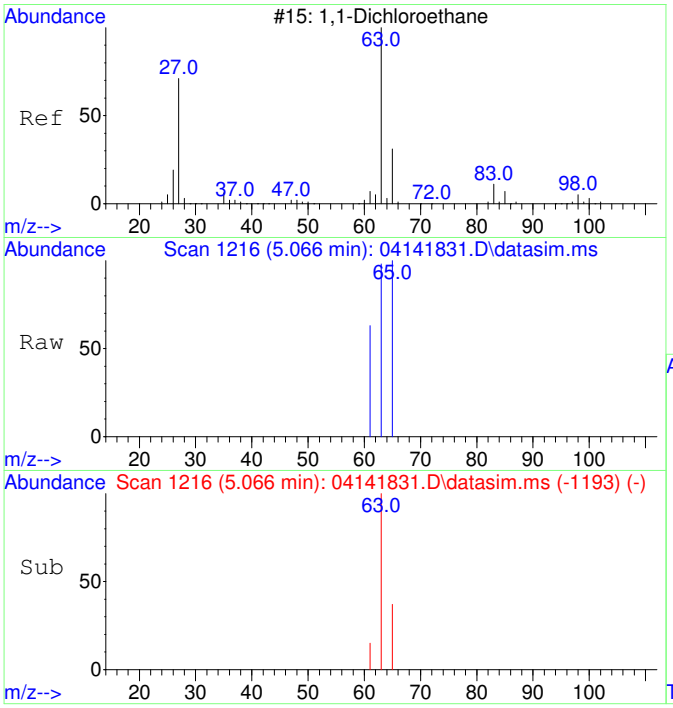


#3
trans-1,2-Dichloroethene
Concen: 5599.49 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 19497

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.0	62.0

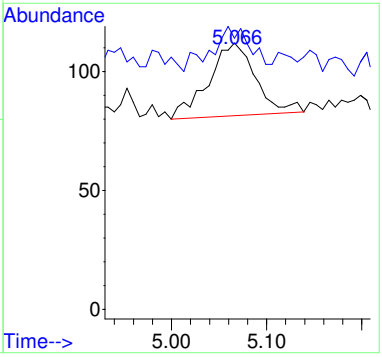


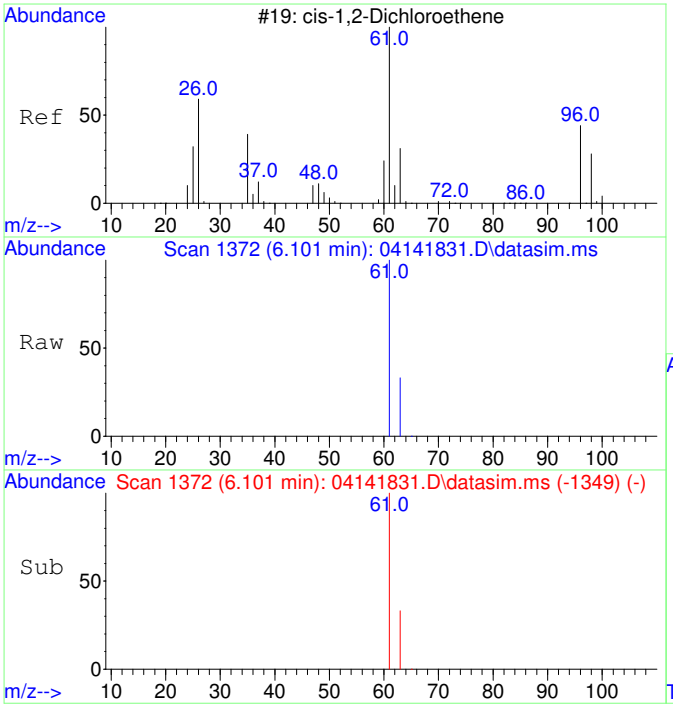


#4
1,1-Dichloroethane
Concen: 22.86 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 63 Resp: 106

Ion	Ratio	Lower	Upper
63	100		
65	45.3	1.8	61.8

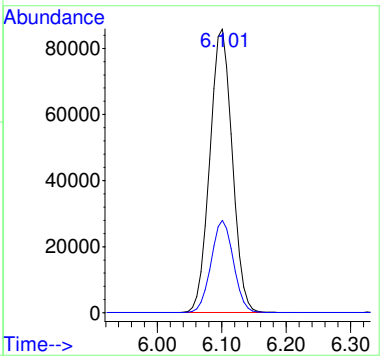


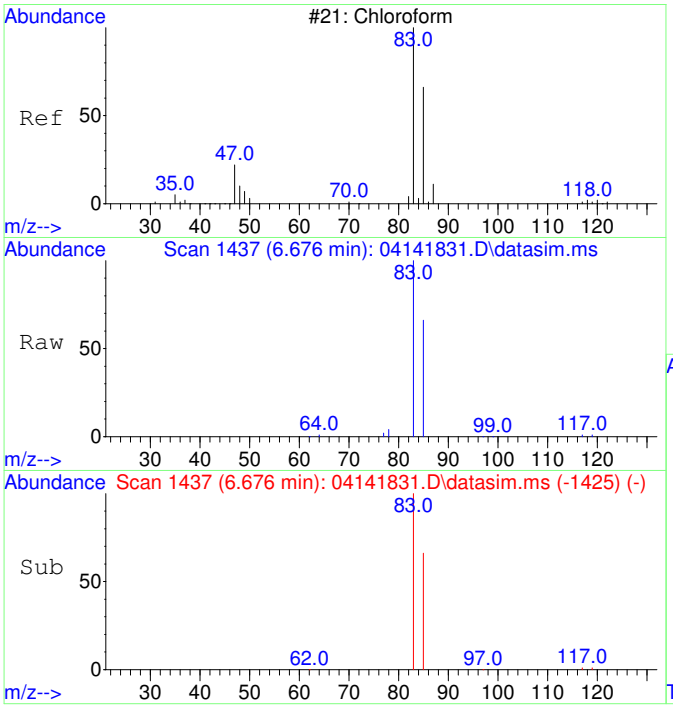


#5
cis-1,2-Dichloroethene
Concen: 48296.58 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 207149

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.0	62.0

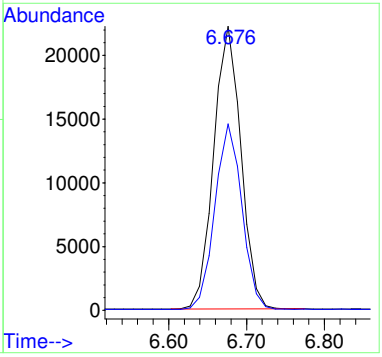


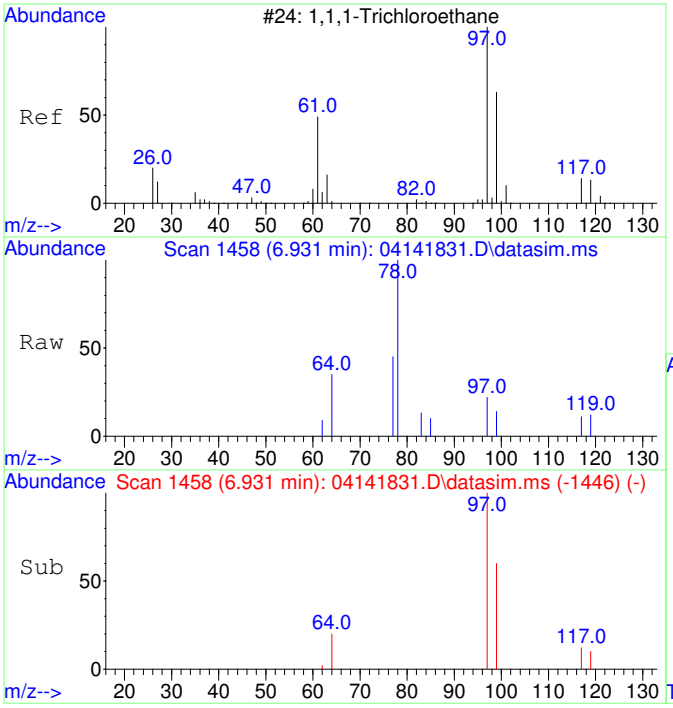


#6
Chloroform
Concen: 10710.15 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 83 Resp: 54025

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.2	94.2

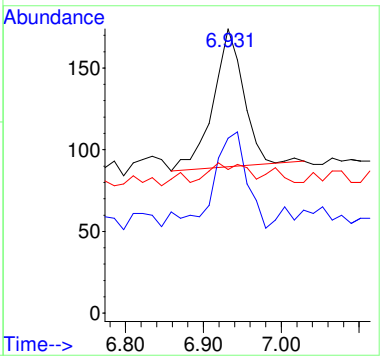


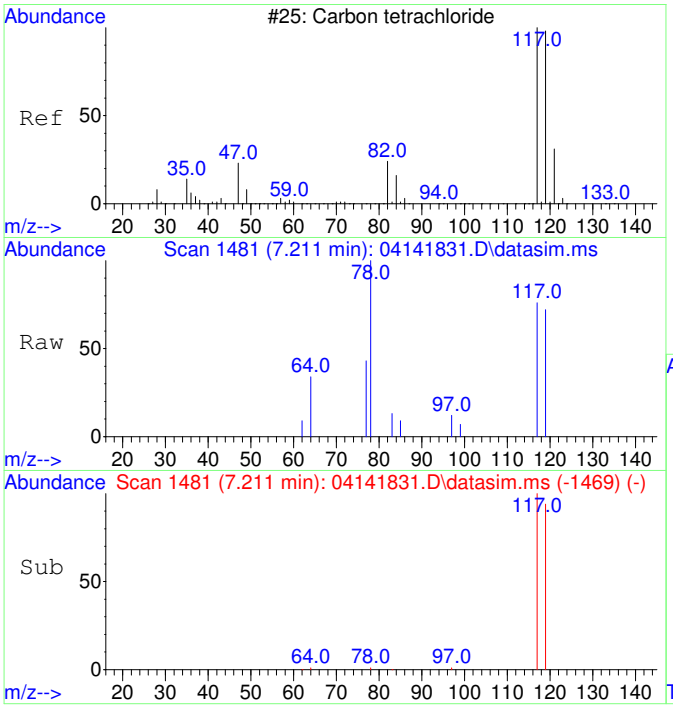


#7
1,1,1-Trichloroethane
Concen: 46.90 ug/L
RT: 6.931 min Scan# 1458
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 97 Resp: 231

Ion	Ratio	Lower	Upper
97	100		
99	77.9	34.5	94.5
117	0.0	0.0	42.6

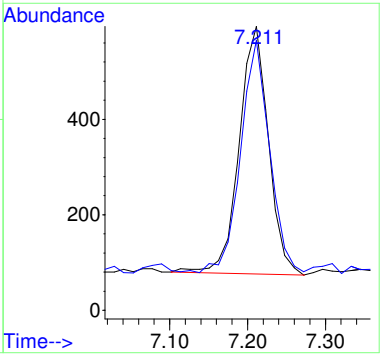


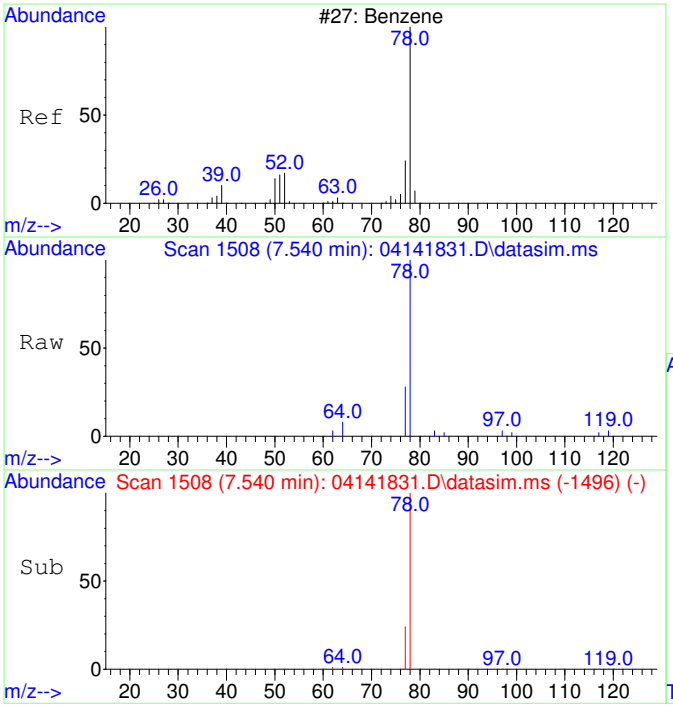


#8
Carbon tetrachloride
Concen: 300.87 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:117 Resp: 1352

Ion	Ratio	Lower	Upper
117	100		
119	91.6	64.5	124.5

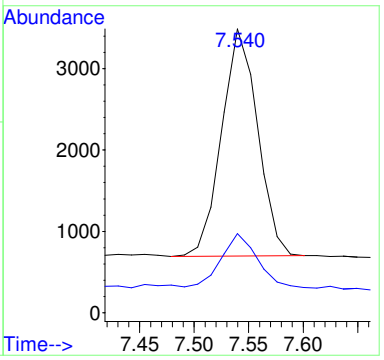


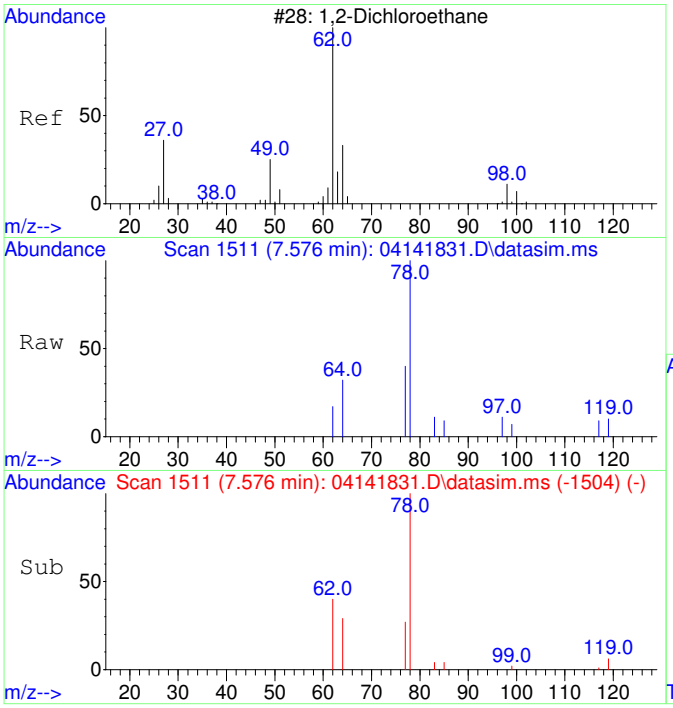


#9
Benzene
Concen: 515.95 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 78 Resp: 6416

Ion	Ratio	Lower	Upper
78	100		
77	25.0	0.0	53.6

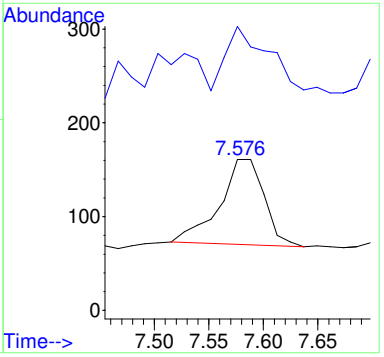


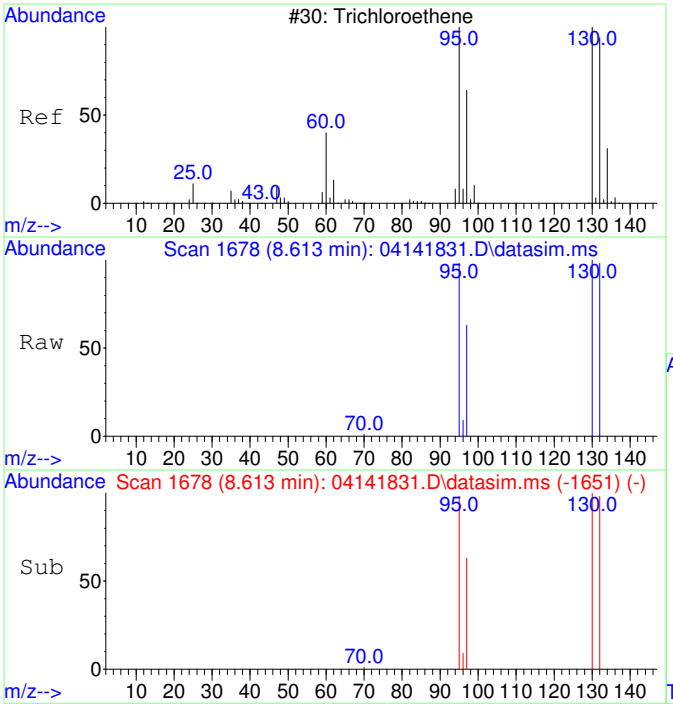


#10
1,2-Dichloroethane
Concen: 59.04 ug/L
RT: 7.576 min Scan# 1511
Delta R.T. -0.012 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 62 Resp: 256

Ion	Ratio	Lower	Upper
62	100		
64	76.2	1.8	61.8#

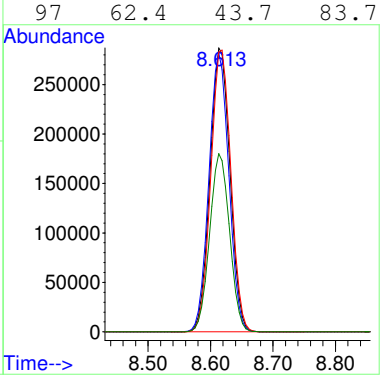


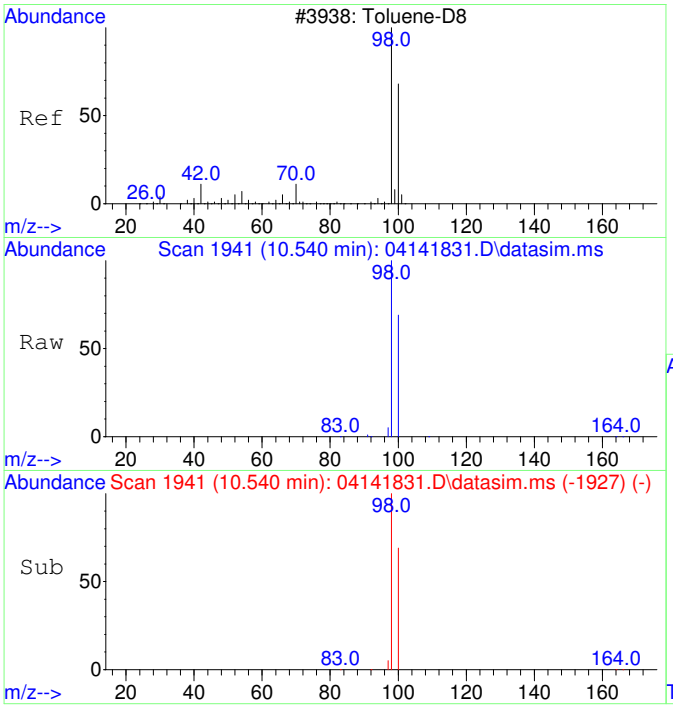


#11
Trichloroethene
Concen: 186667.39 ug/L
RT: 8.613 min Scan# 1678
Delta R.T. -0.005 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:130 Resp: 639577

Ion	Ratio	Lower	Upper
130	100		
95	97.6	68.8	128.8
132	99.6	78.6	118.6
97	62.4	43.7	83.7

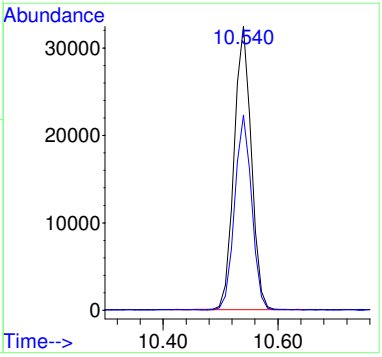


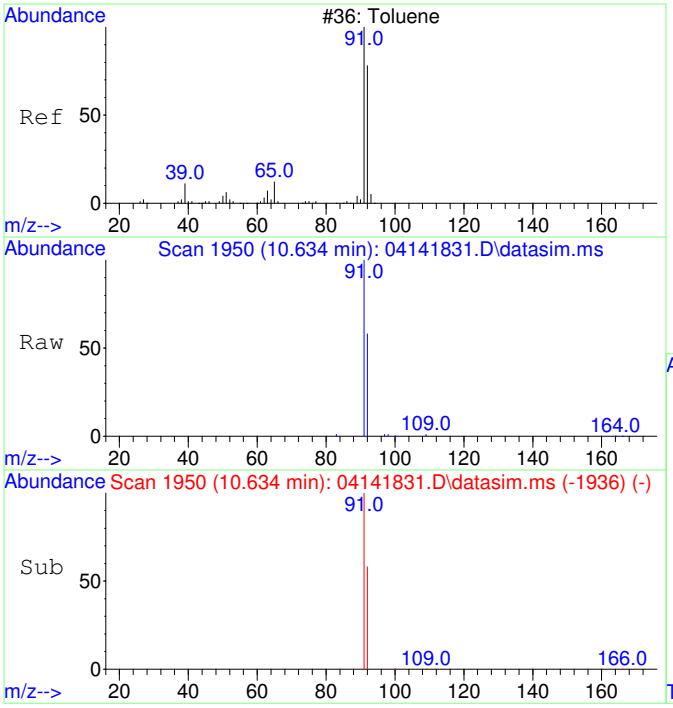


#12
Toluene-d8
Concen: 5158.34 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 98 Resp: 67214

Ion	Ratio	Lower	Upper
98	100		
100	67.7	36.9	96.9

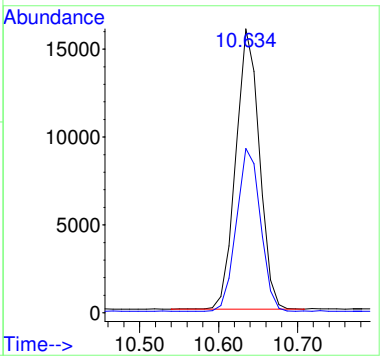


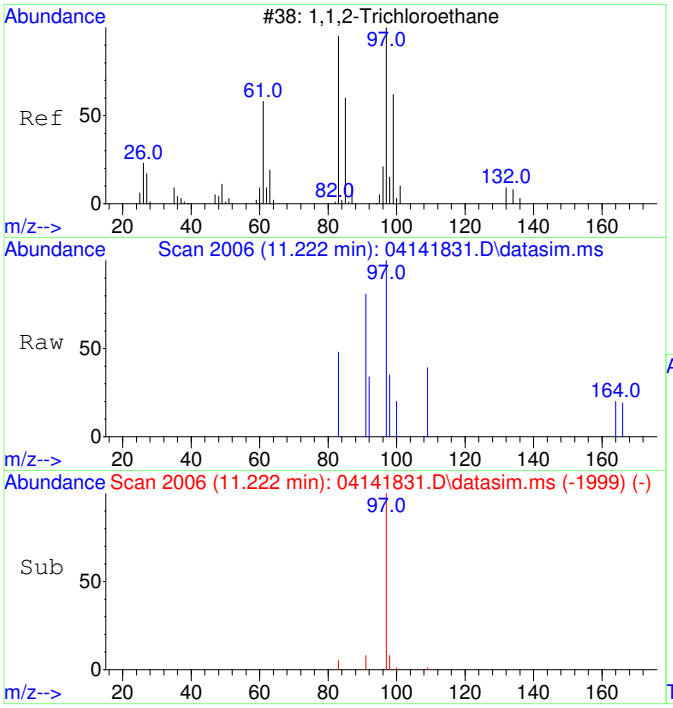


#13
Toluene
Concen: 2010.77 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 32977

Ion	Ratio	Lower	Upper
91	100		
92	59.5	28.8	88.8

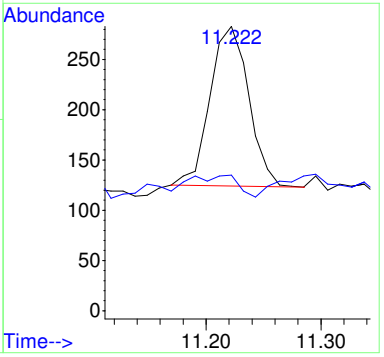


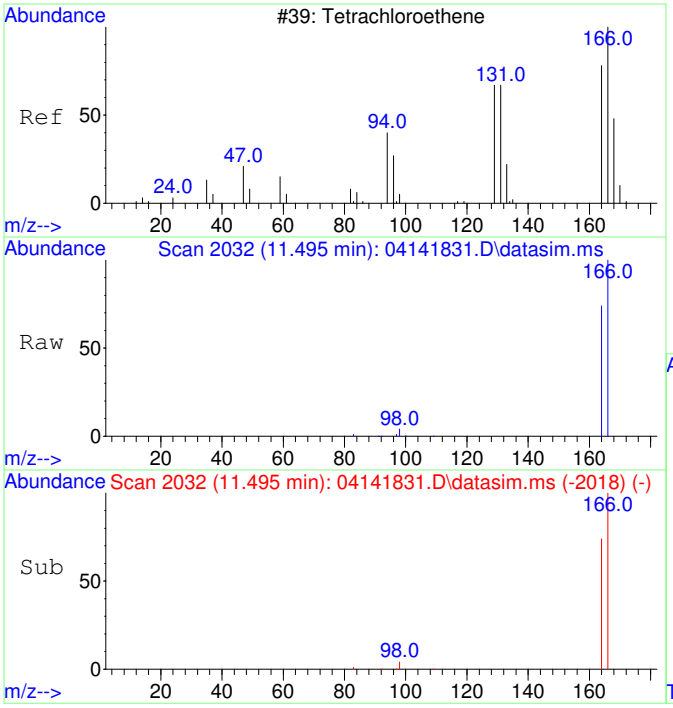


#14
1,1,2-Trichloroethane
Concen: 102.66 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.074 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 97 Resp: 372

Ion	Ratio	Lower	Upper
97	100		
83	17.2	54.3	114.3#

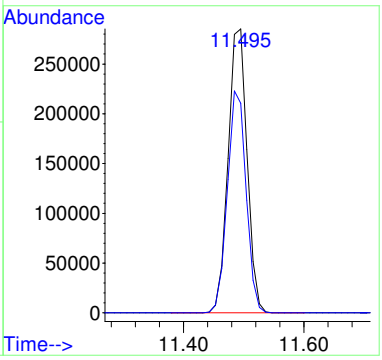


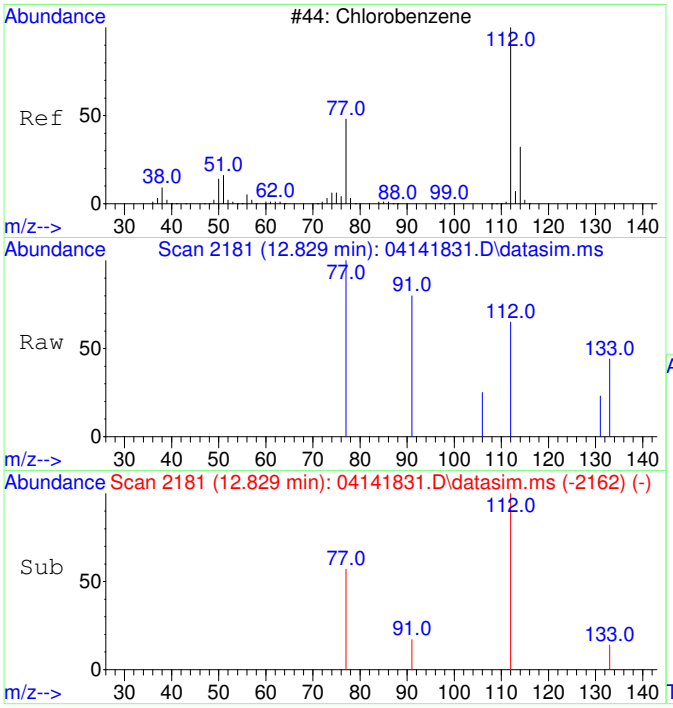


#15
Tetrachloroethene
Concen: 140277.36 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:166 Resp: 630567

Ion	Ratio	Lower	Upper
166	100		
164	77.1	48.0	108.0

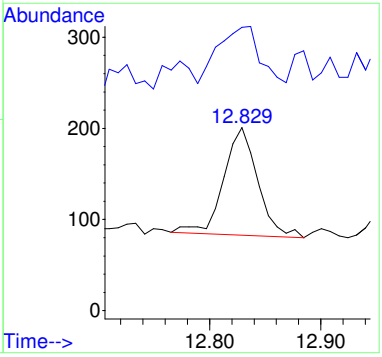


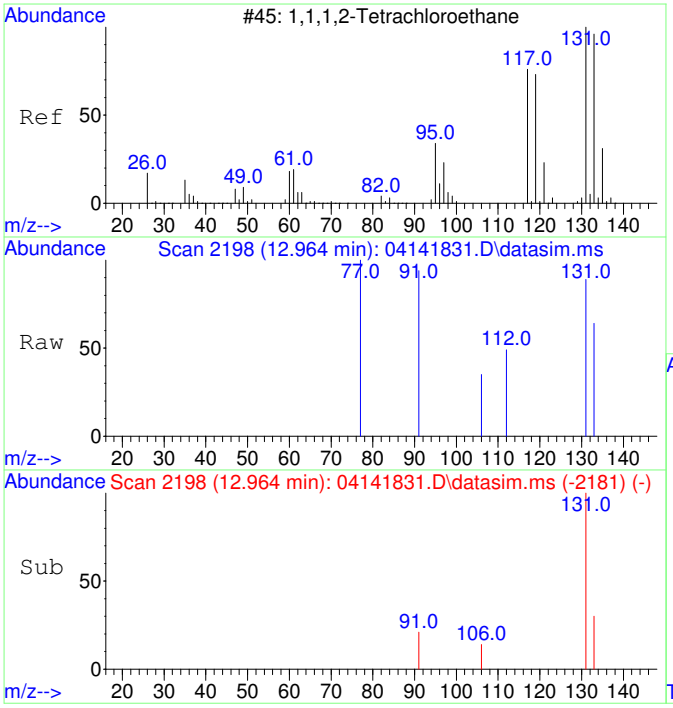


#16
Chlorobenzene
Concen: 21.55 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:112 Resp: 249

Ion	Ratio	Lower	Upper
112	100		
77	69.9	29.4	89.4

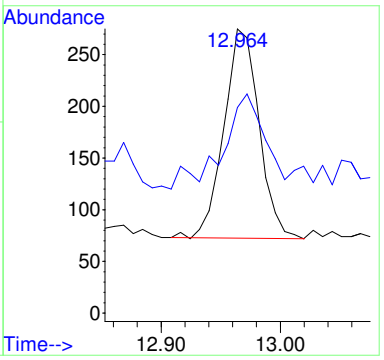


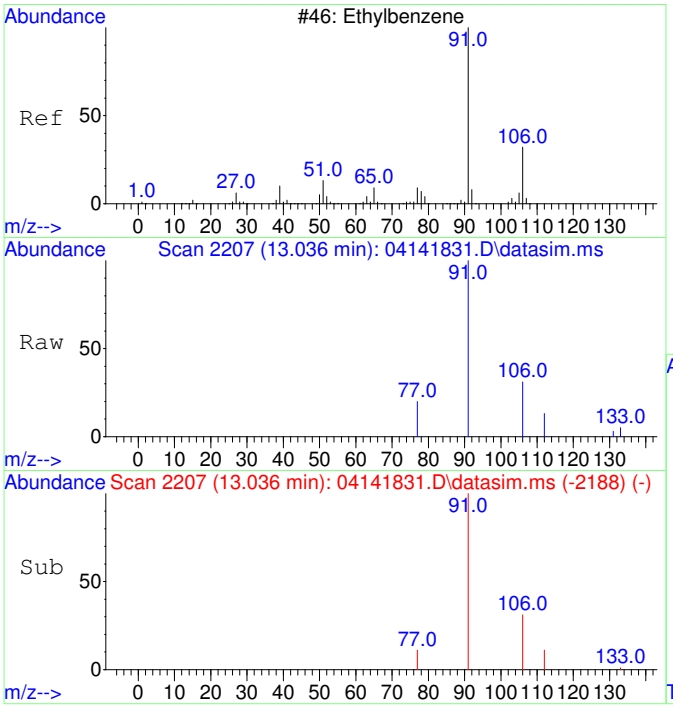


#17
1,1,1,2-Tetrachloroethane
Concen: 107.87 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. -0.016 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:131 Resp: 415

Ion	Ratio	Lower	Upper
131	100		
133	56.4	65.1	125.1#

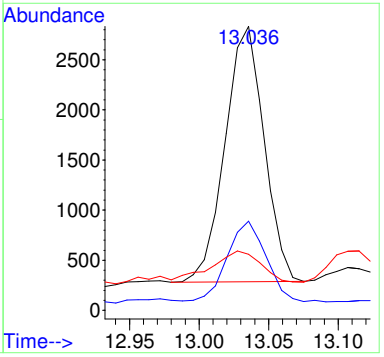


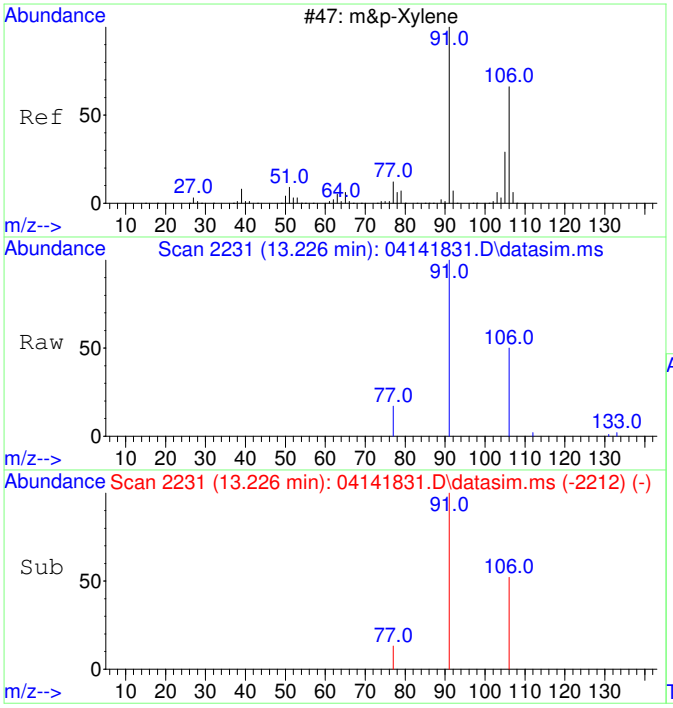


#18
Ethylbenzene
Concen: 267.22 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 4975

Ion	Ratio	Lower	Upper
91	100		
106	31.1	1.8	61.8
77	21.3	0.0	38.7

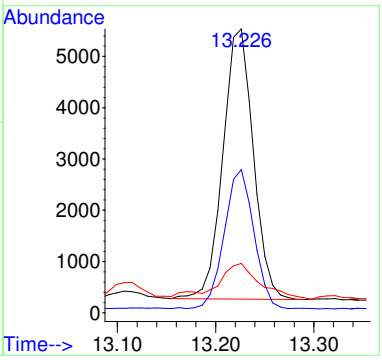


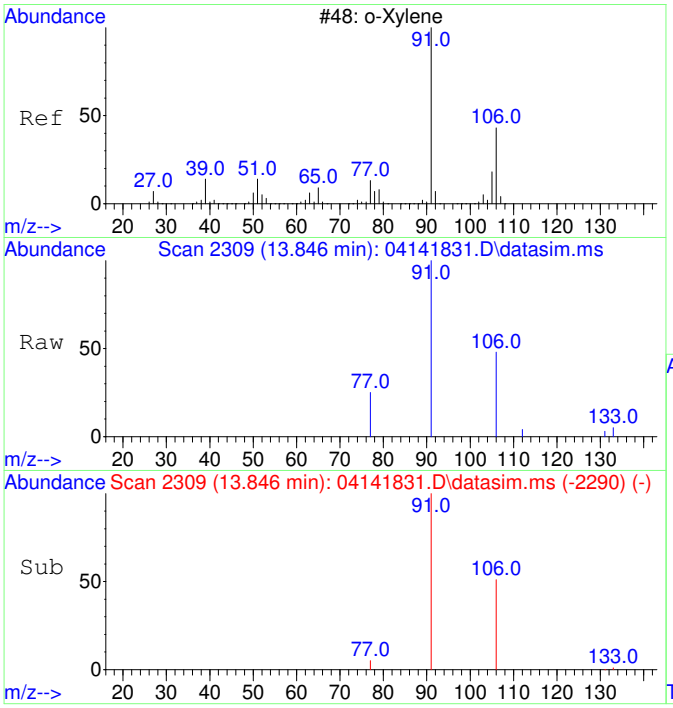


#19
m&p-Xylene
Concen: 774.32 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 11280

Ion	Ratio	Lower	Upper
91	100		
106	50.3	20.0	80.0
77	18.8	0.0	43.4

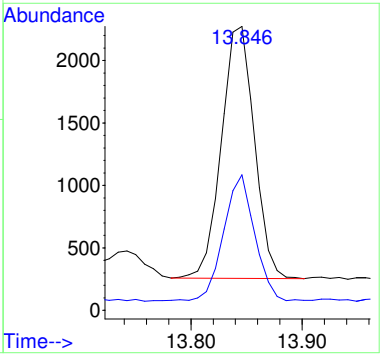


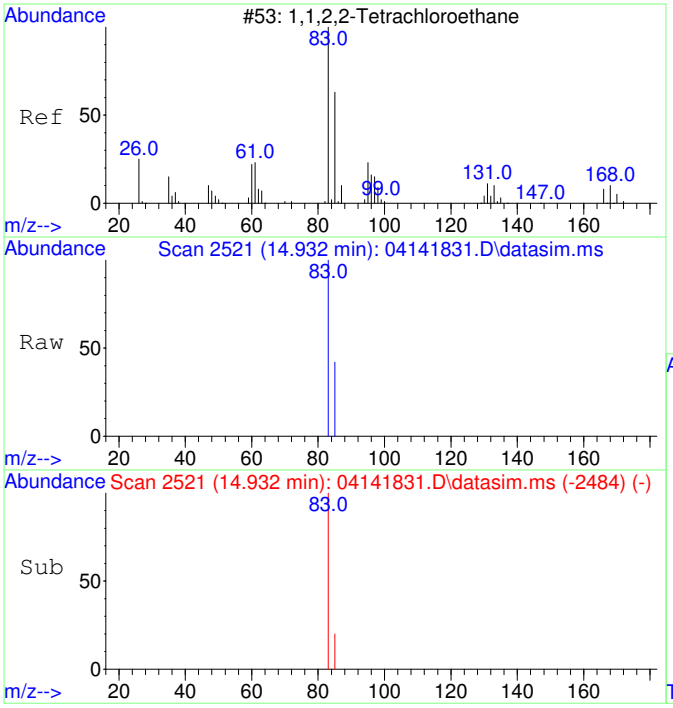


#20
o-Xylene
Concen: 270.67 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 4155

Ion	Ratio	Lower	Upper
91	100		
106	46.9	16.9	76.9

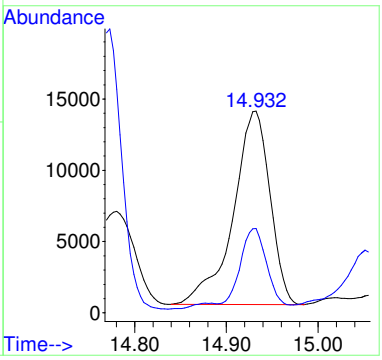


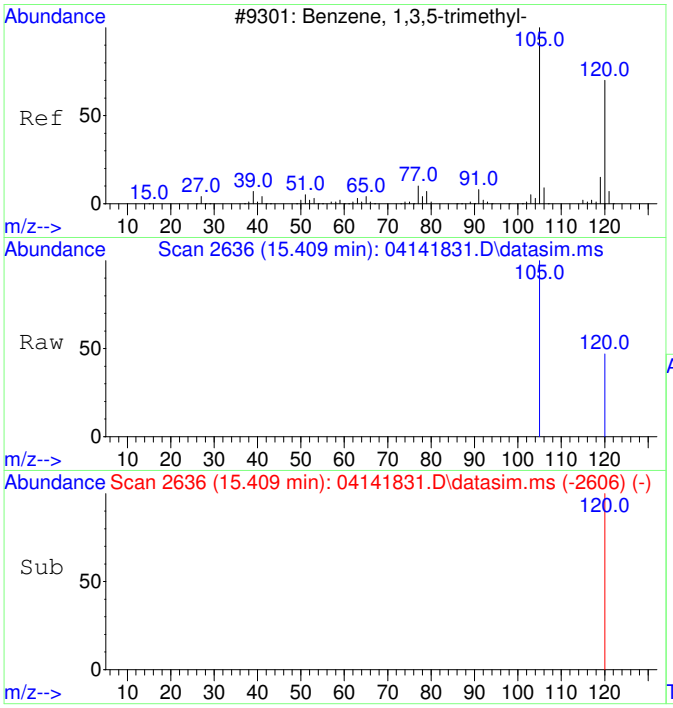


#21
1,1,2,2-Tetrachloroethane
Concen: 5314.90 ug/L
RT: 14.932 min Scan# 2521
Delta R.T. -0.011 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 83 Resp: 37868

Ion	Ratio	Lower	Upper
83	100		
85	27.7	34.3	94.3#

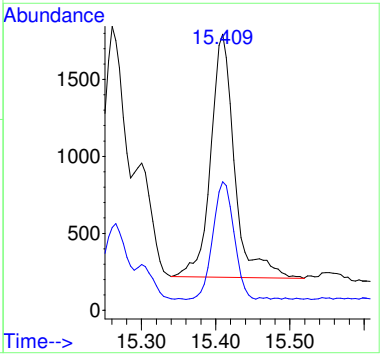


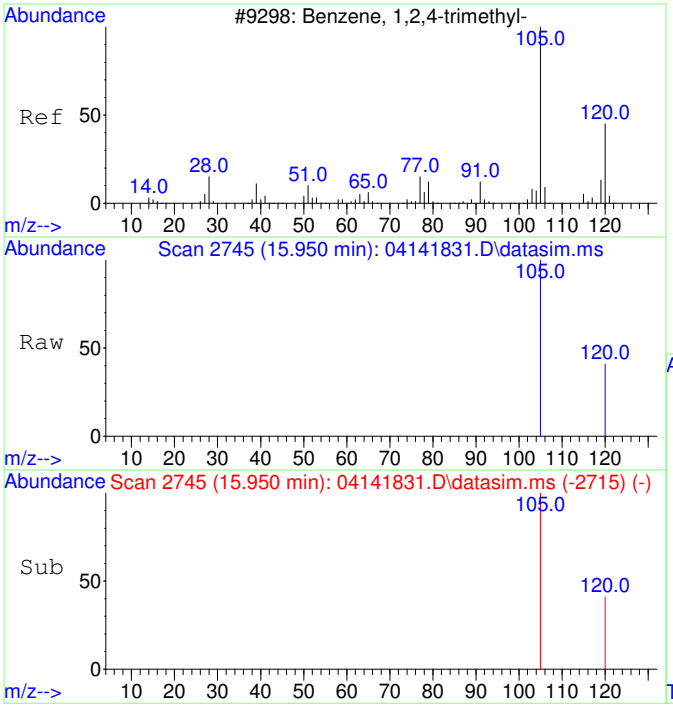


#22
1,3,5-Trimethylbenzene
Concen: 196.31 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:105 Resp: 3527

Ion	Ratio	Lower	Upper
105	100		
120	42.6	18.1	78.1

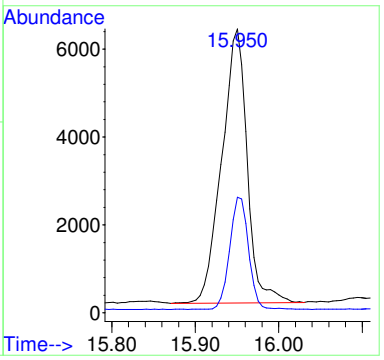


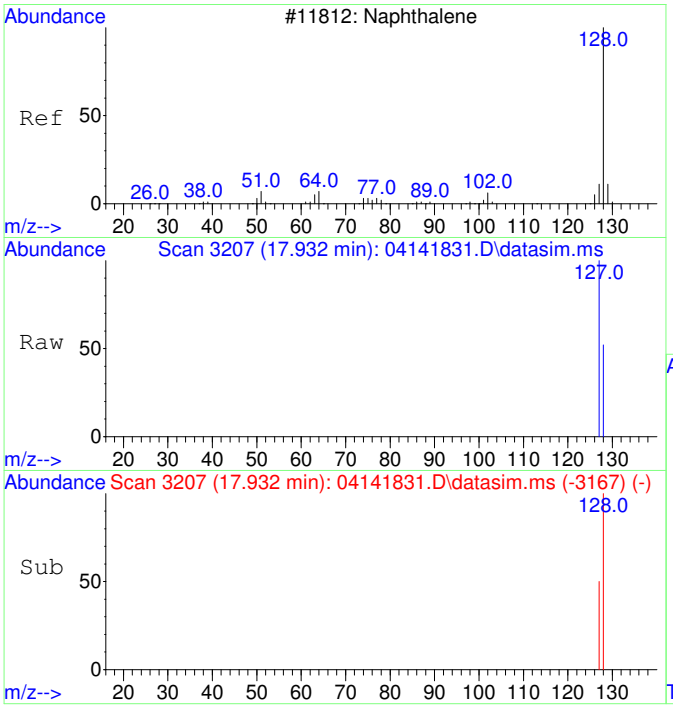


#23
1,2,4-Trimethylbenzene
Concen: 720.67 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:105 Resp: 13171

Ion	Ratio	Lower	Upper
105	100		
120	30.3	14.5	74.5

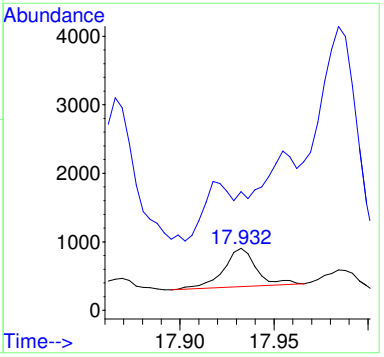


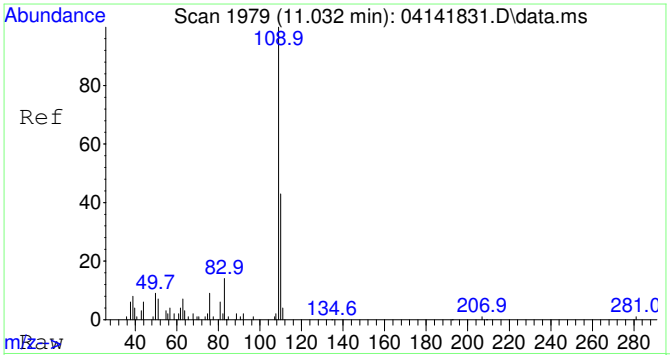


#24
Naphthalene
Concen: 21.87 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:128 Resp: 692

Ion	Ratio	Lower	Upper
128	100		
127	80.2	0.0	42.7#

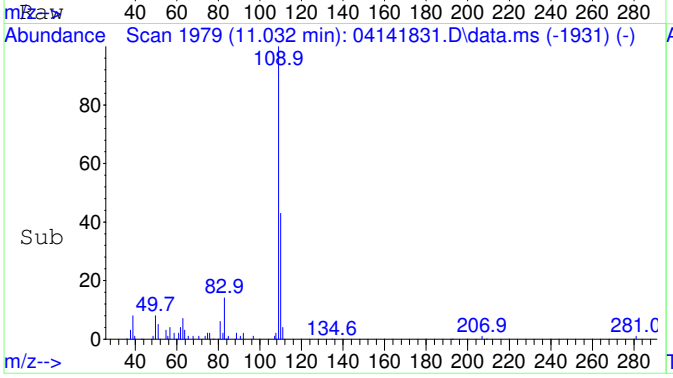


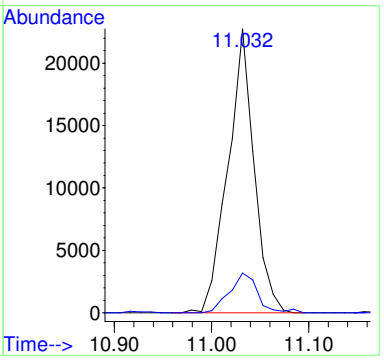


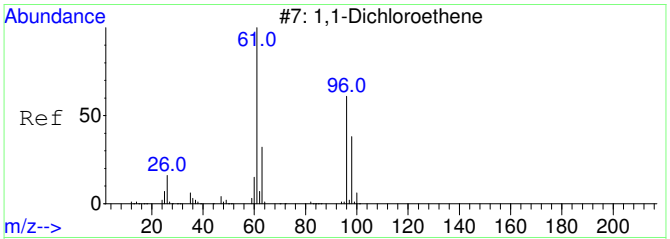
#25
2-Fluorotoluene SCAN
Concen: 5652.70 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:109 Resp: 42402

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	49.2



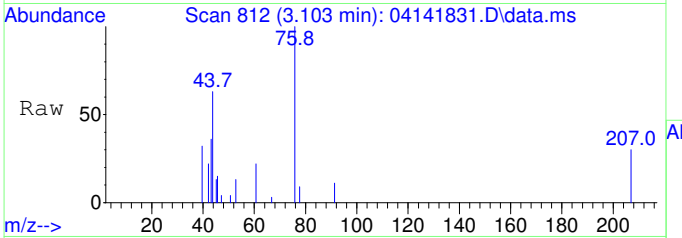


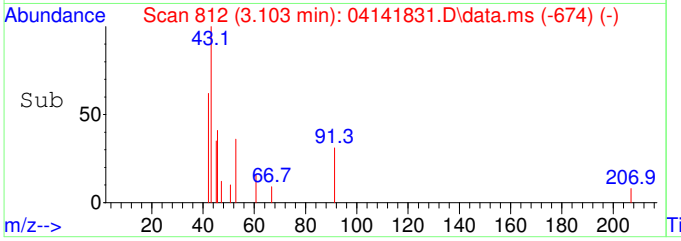


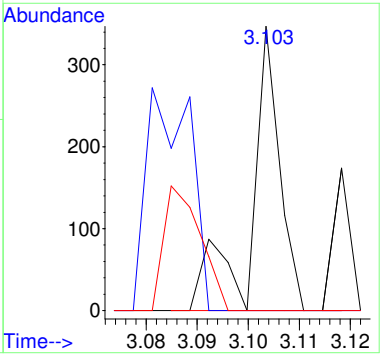
#26
1,1-Dichloroethene SCAN
Concen: 81.80 ug/L
RT: 3.103 min Scan# 812
Delta R.T. 0.011 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

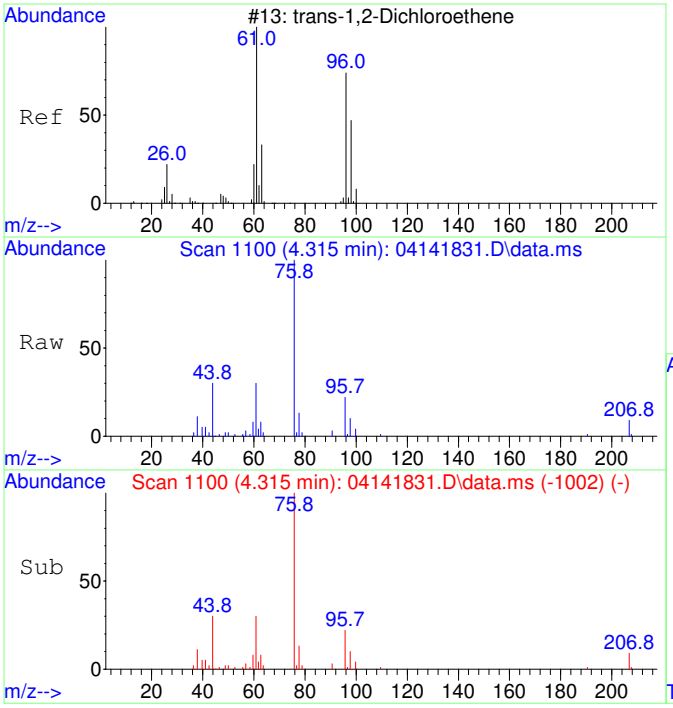
Tgt Ion: 61 Resp: 136

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.6	81.6#
98	0.0	7.5	67.5#





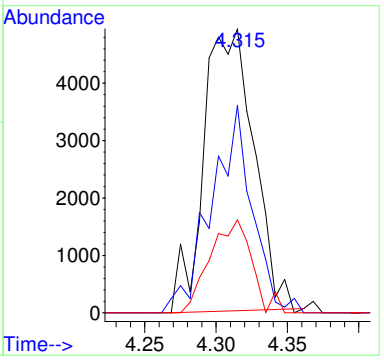


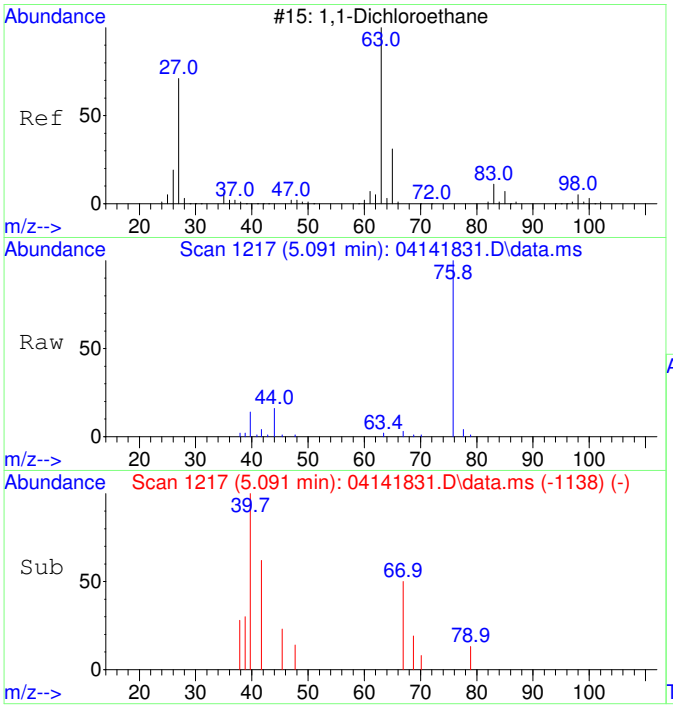


#27
trans-1,2-Dichloroethene SCAN
Concen: 7388.85 ug/L
RT: 4.315 min Scan# 1100
Delta R.T. 0.007 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 12036

Ion	Ratio	Lower	Upper
61	100		
96	59.7	51.8	111.8
98	27.5	22.7	82.7

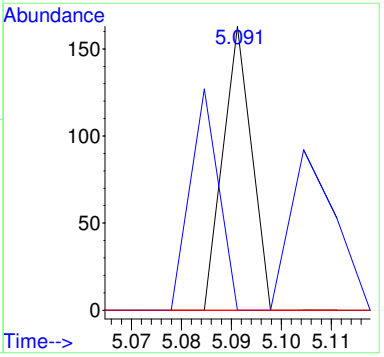


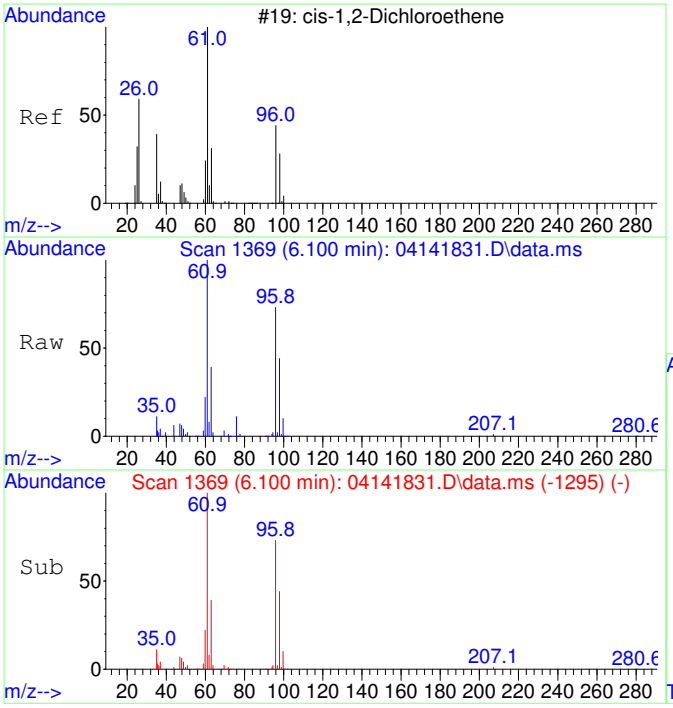


#28
1,1-Dichloroethane SCAN
Concen: 26.08 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. 0.027 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 63 Resp: 65

Ion	Ratio	Lower	Upper
63	100		
65	78.5	2.2	62.2#
83	0.0	0.0	38.2

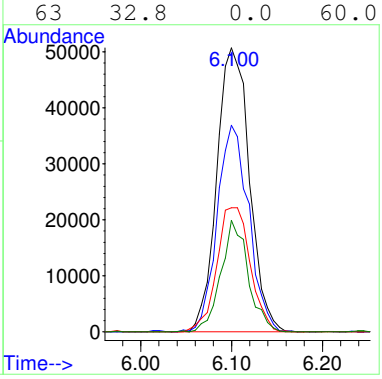


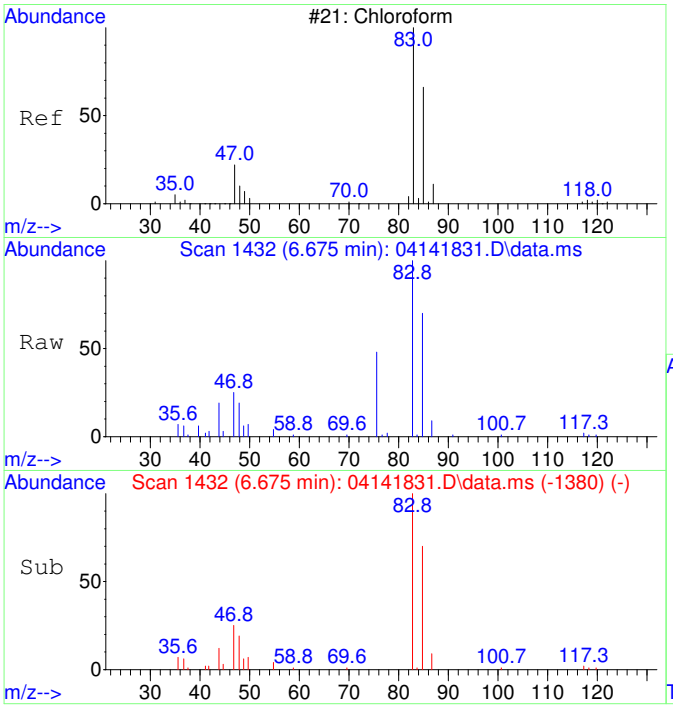


#29
cis-1,2-Dichloroethene SCAN
Concen: 64820.28 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.007 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 61 Resp: 126822

Ion	Ratio	Lower	Upper
61	100		
96	70.5	49.4	109.4
98	45.0	9.5	69.5
63	32.8	0.0	60.0

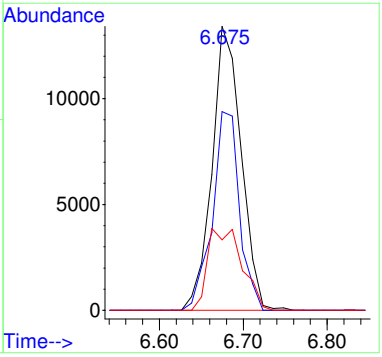


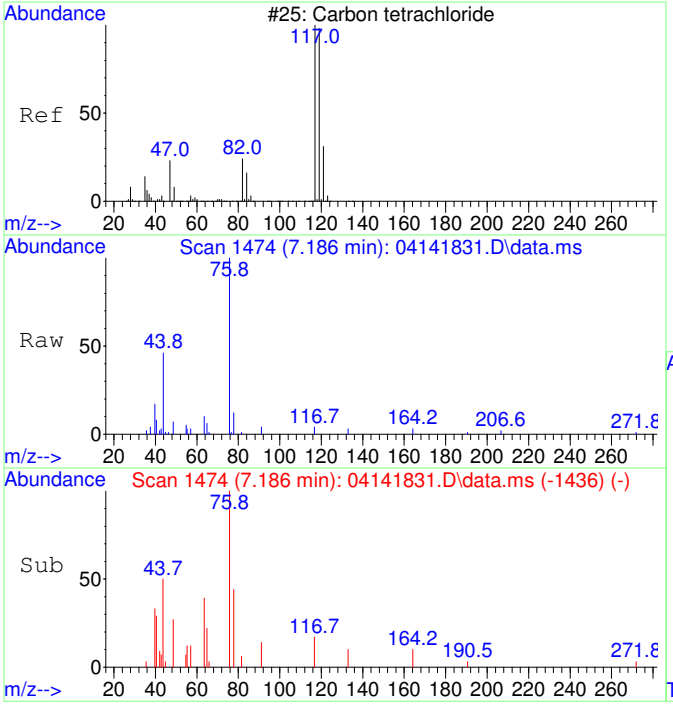


#30
Chloroform SCAN
Concen: 13698.86 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 83 Resp: 32338

Ion	Ratio	Lower	Upper
83	100		
85	64.8	47.8	107.8
47	34.2	8.2	68.2

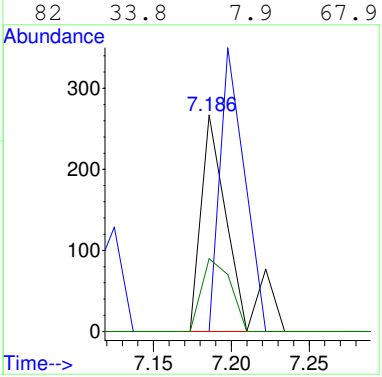


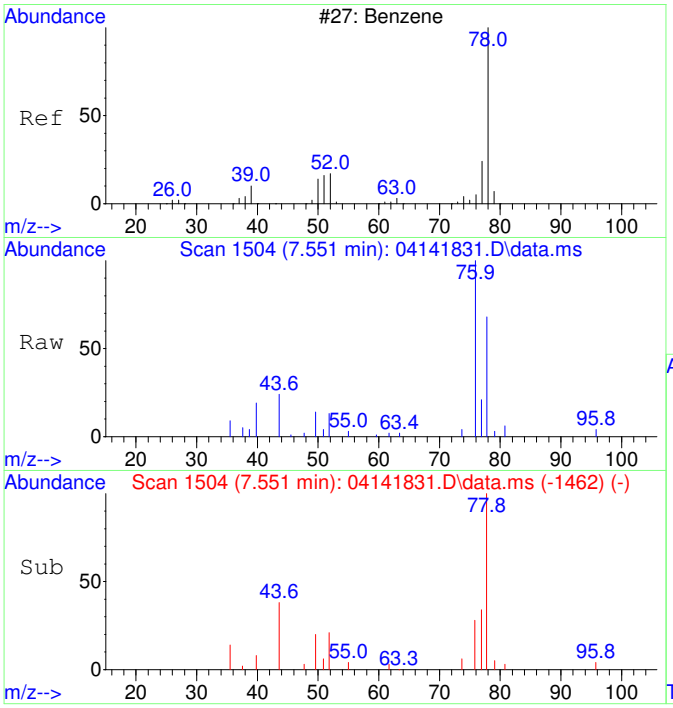


#32
Carbon tetrachloride SCAN
Concen: 162.39 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. -0.037 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:117 Resp: 346

Ion	Ratio	Lower	Upper
117	100		
119	111.0	54.4	114.4
121	0.0	0.0	53.0
82	33.8	7.9	67.9

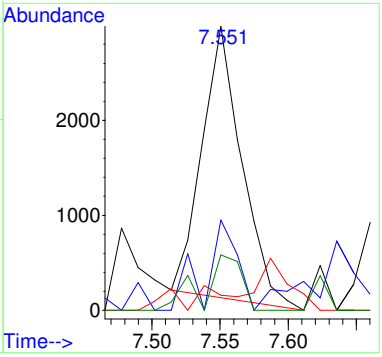


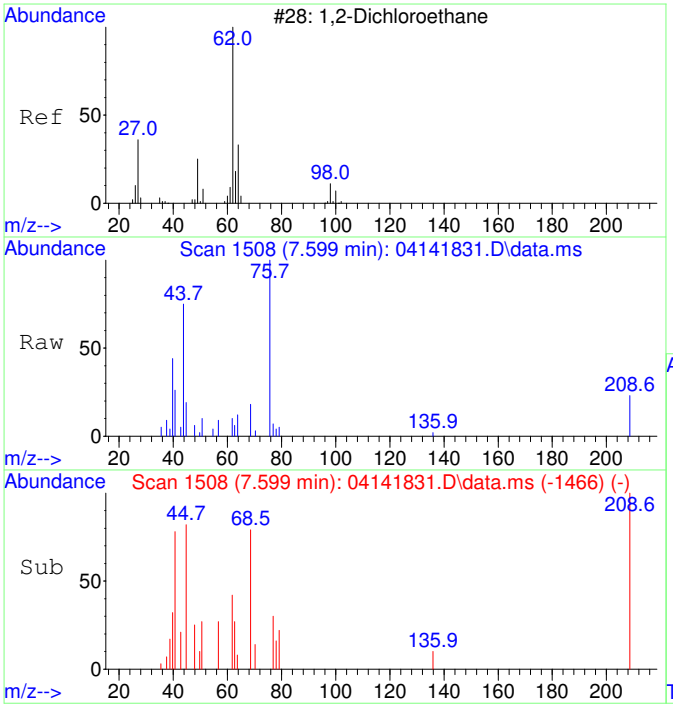


#33
Benzene SCAN
Concen: 889.35 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 78 Resp: 5744

Ion	Ratio	Lower	Upper
78	100		
77	18.5	5.4	65.4
51	0.0	0.0	47.2
52	19.7	0.0	47.4

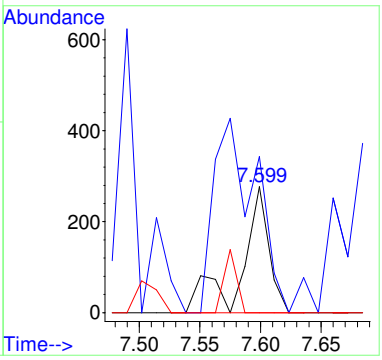


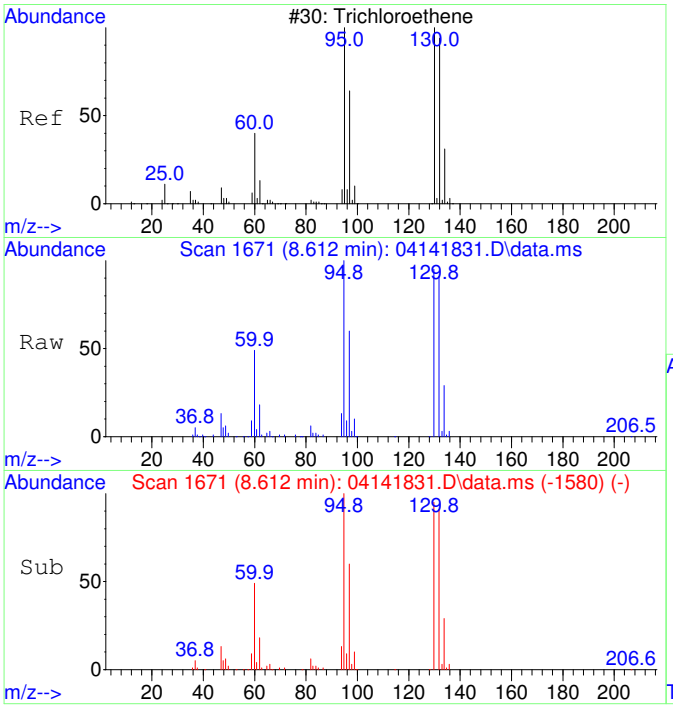


#34
1,2-Dichloroethane SCAN
Concen: 180.48 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 62 Resp: 442

Ion	Ratio	Lower	Upper
62	100		
64	0.0	4.4	64.4#
49	0.0	1.2	61.2#

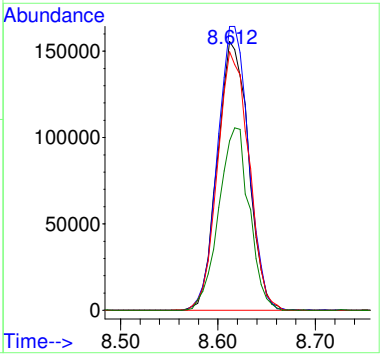


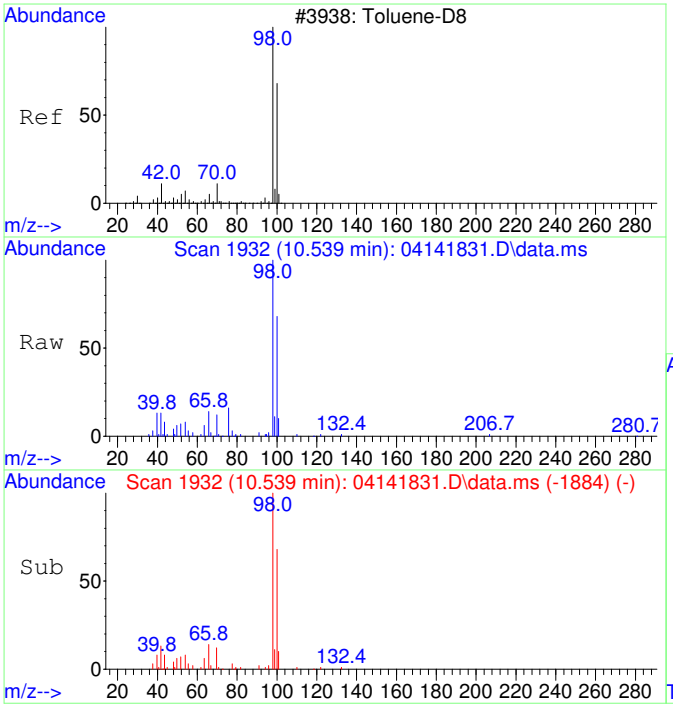


#35
Trichloroethene SCAN
Concen: 213274.89 ug/L
RT: 8.612 min Scan# 1671
Delta R.T. -0.005 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:130 Resp: 346082

Ion	Ratio	Lower	Upper
130	100		
95	105.0	71.3	131.3
132	96.8	75.1	135.1
97	66.4	41.3	101.3

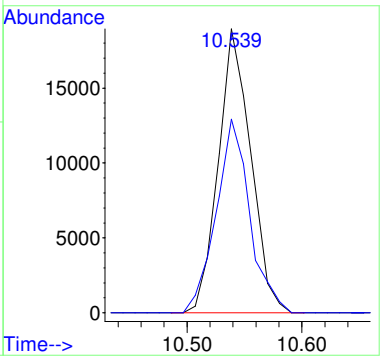


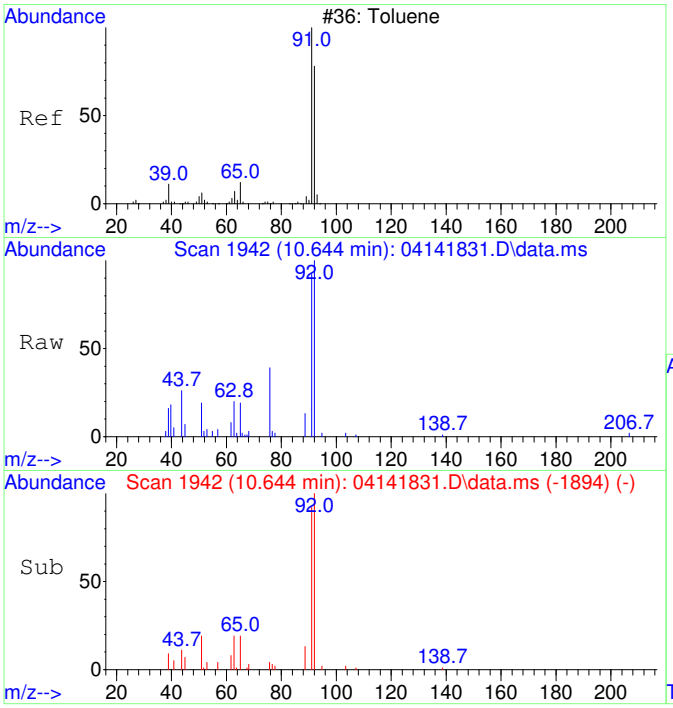


#36
Toluene-d8 SCAN
Concen: 5653.14 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 98 Resp: 37232

Ion	Ratio	Lower	Upper
98	100		
100	70.7	37.3	97.3

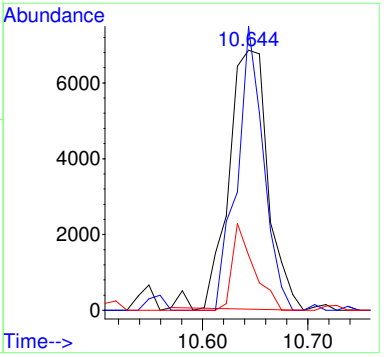


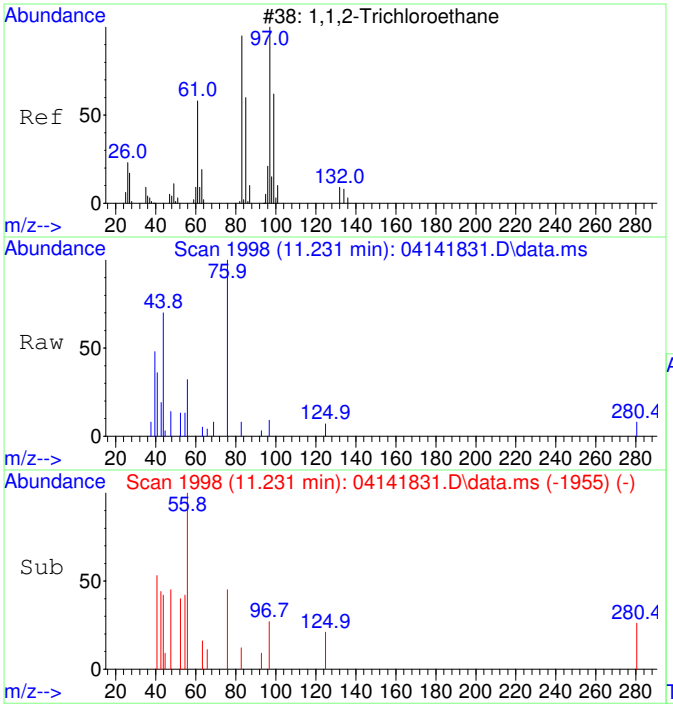


#37
Toluene SCAN
Concen: 2413.31 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 17776

Ion	Ratio	Lower	Upper
91	100		
92	74.0	39.1	99.1
65	18.3	0.0	43.8

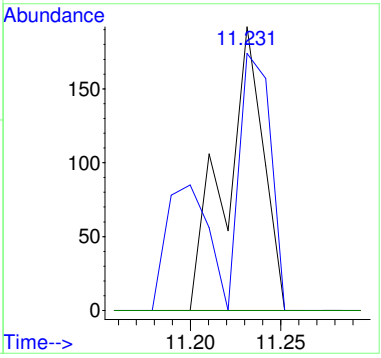


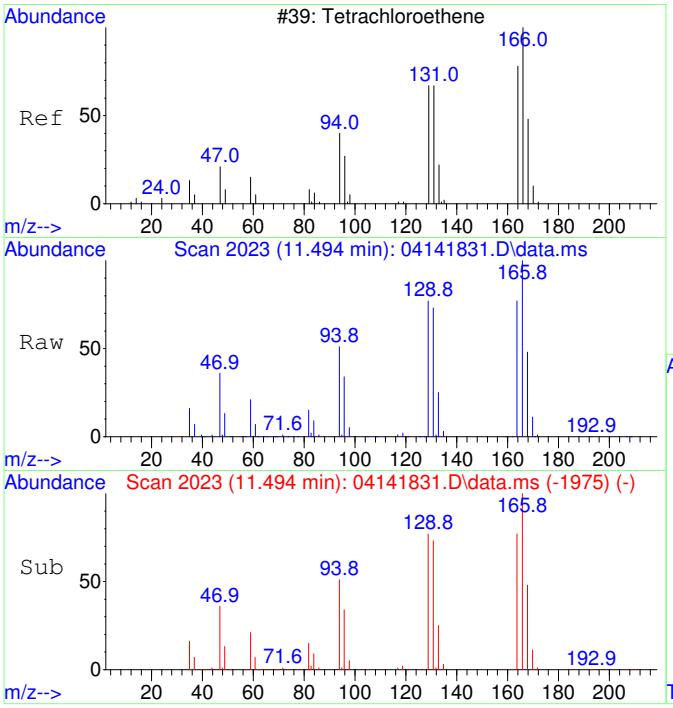


#38
1,1,2-Trichloroethane SCAN
Concen: 125.46 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.053 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 97 Resp: 283

Ion	Ratio	Lower	Upper
97	100		
83	73.5	47.4	107.4
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

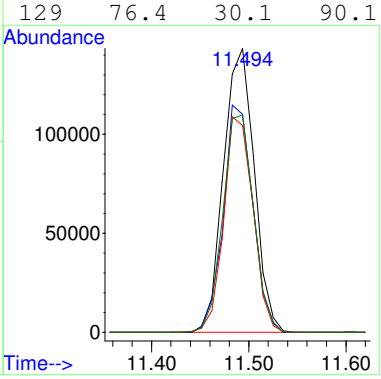


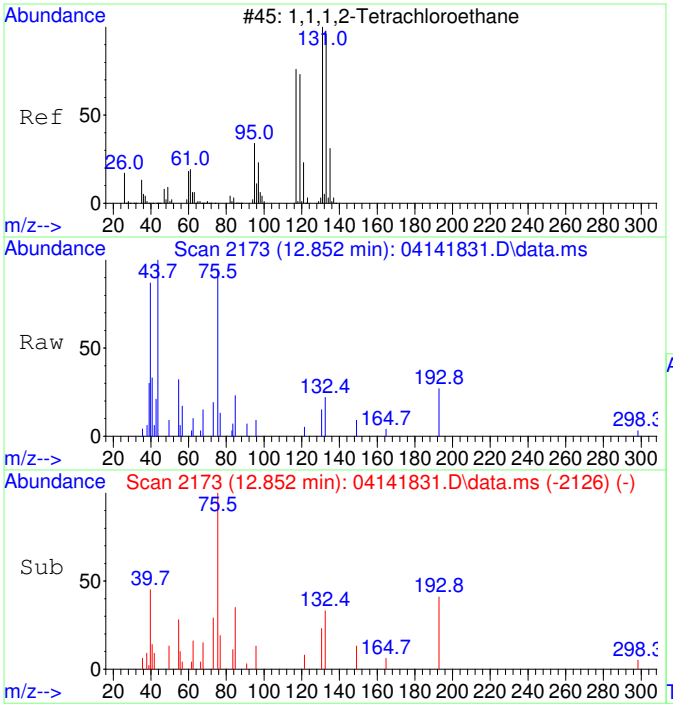


#39
Tetrachloroethene SCAN
Concen: 131059.49 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:166 Resp: 314819

Ion	Ratio	Lower	Upper
166	100		
164	76.9	49.8	109.8
131	72.2	42.0	102.0
129	76.4	30.1	90.1

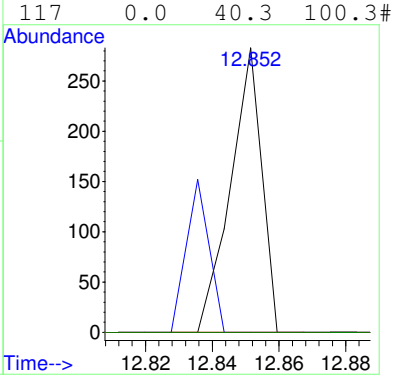


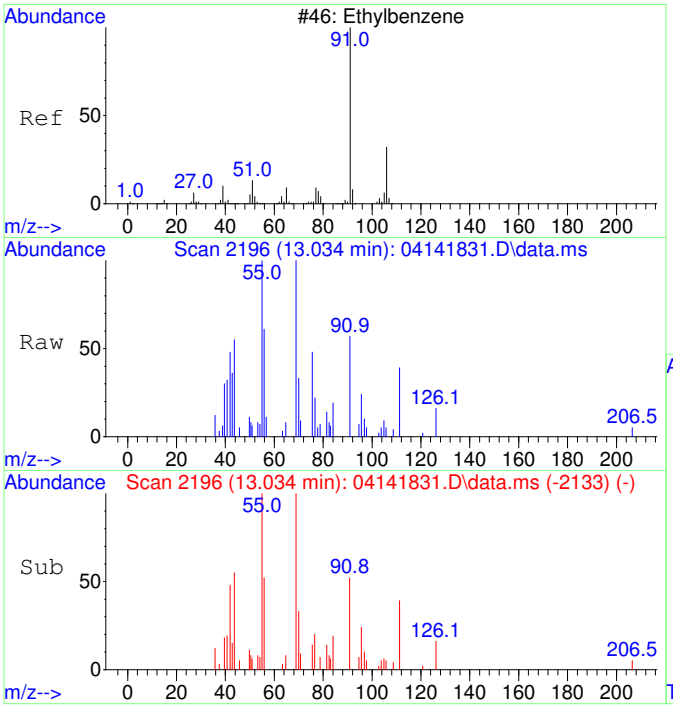


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 97.78 ug/L
RT: 12.852 min Scan# 2173
Delta R.T. -0.127 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:131 Resp: 184

Ion	Ratio	Lower	Upper
131	100		
133	39.1	78.7	138.7#
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

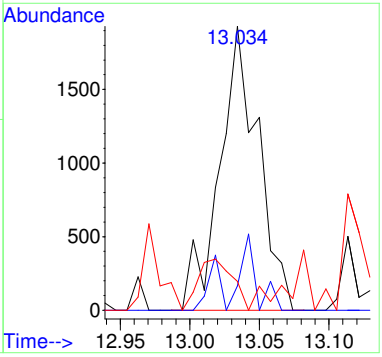


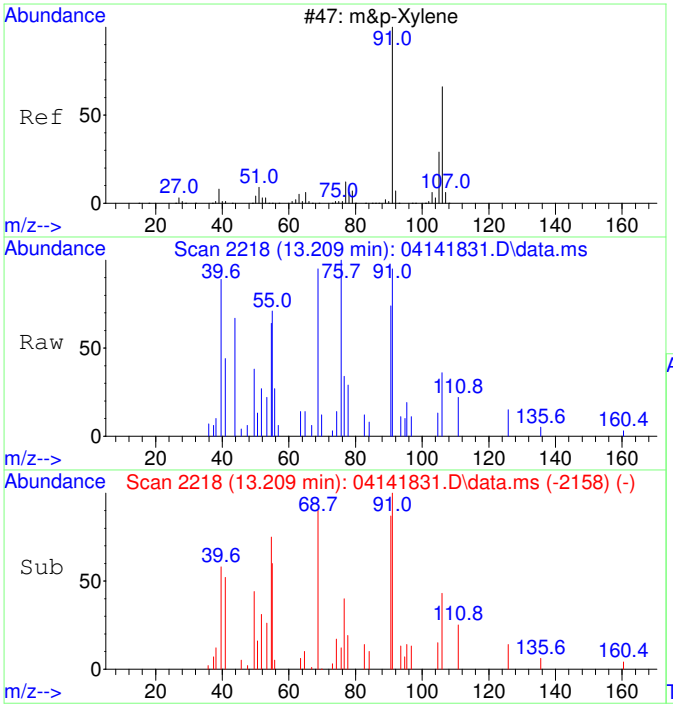


#42
Ethylbenzene SCAN
Concen: 386.12 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 3728

Ion	Ratio	Lower	Upper
91	100		
106	11.2	1.8	61.8
51	0.0	0.0	45.4

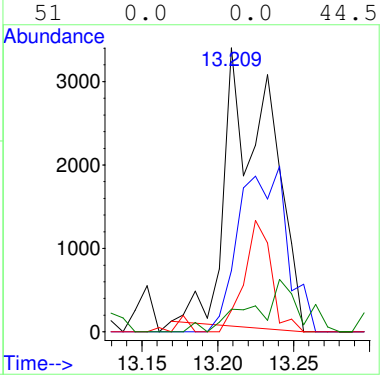


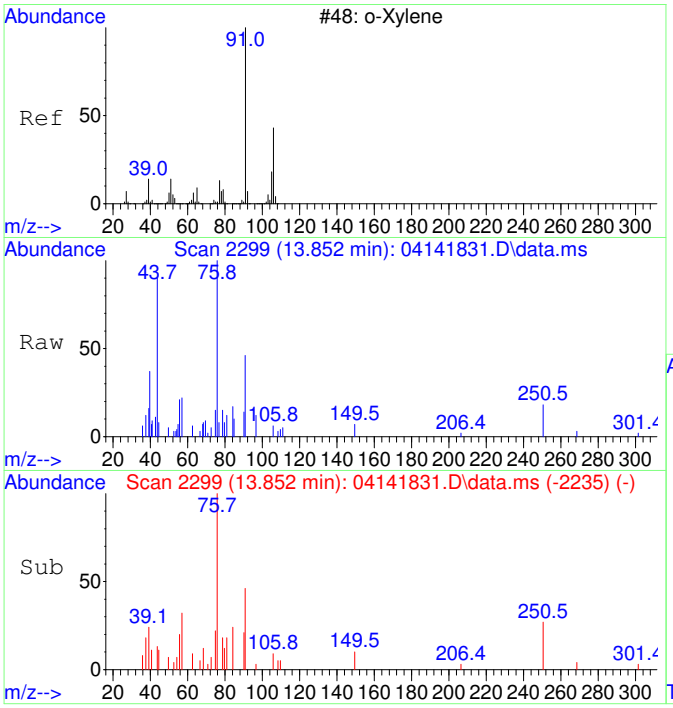


#43
m&p-Xylene SCAN
Concen: 440.15 ug/L
RT: 13.209 min Scan# 2218
Delta R.T. -0.024 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 6916

Ion	Ratio	Lower	Upper
91	100		
106	0.0	14.6	74.6#
105	0.0	0.0	52.8
51	0.0	0.0	44.5

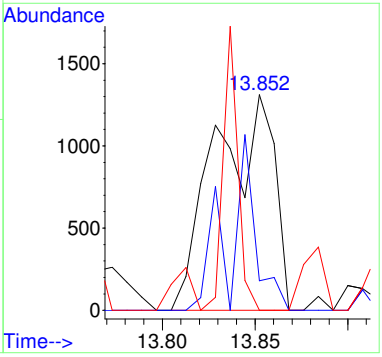


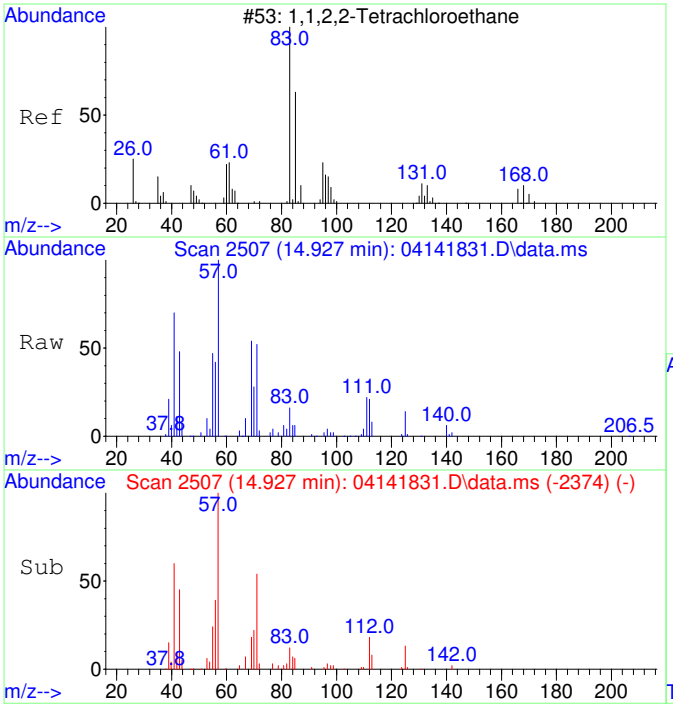


#44
o-Xylene SCAN
Concen: 341.67 ug/L
RT: 13.852 min Scan# 2299
Delta R.T. 0.008 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 91 Resp: 2907

Ion	Ratio	Lower	Upper
91	100		
106	23.7	20.2	80.2
105	39.5	0.0	54.9

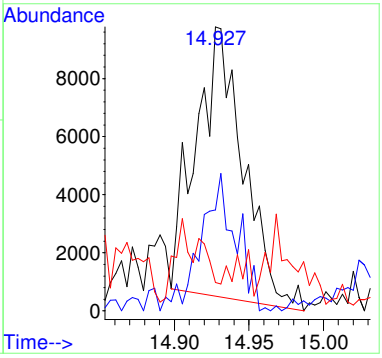


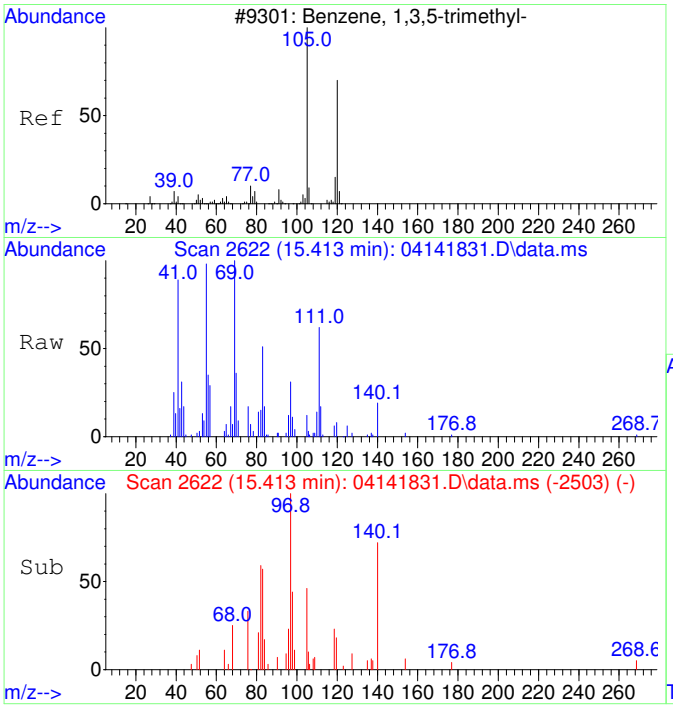


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 4607.29 ug/L
RT: 14.927 min Scan# 2507
Delta R.T. -0.007 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 83 Resp: 20518

Ion	Ratio	Lower	Upper
83	100		
85	37.6	32.4	92.4
95	0.0	0.0	41.2

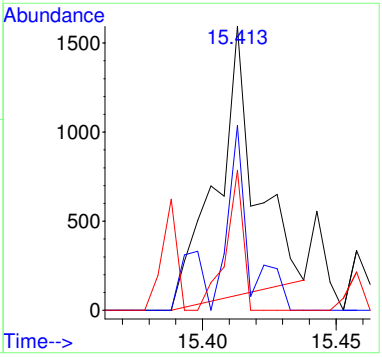


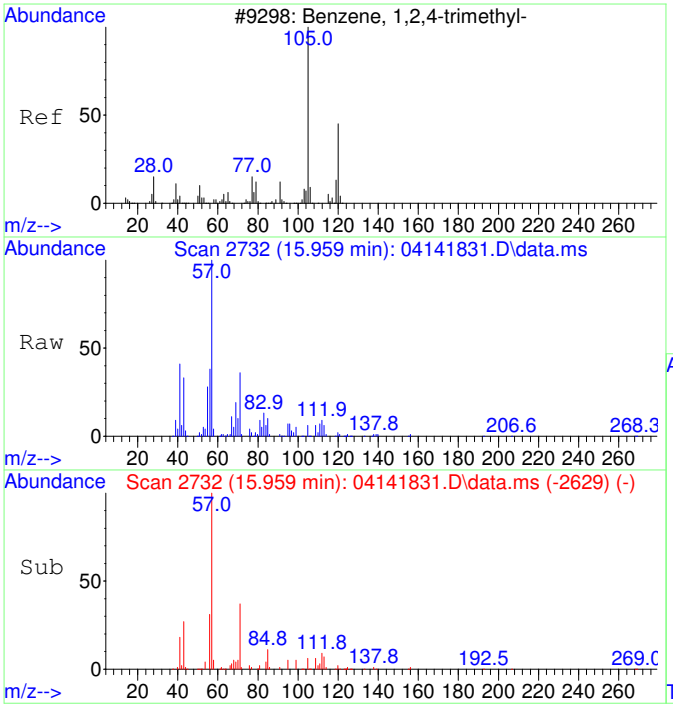


#46
1,3,5-Trimethylbenzene SCAN
Concen: 157.27 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.001 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:105 Resp: 1538

Ion	Ratio	Lower	Upper
105	100		
120	49.6	16.1	76.1
119	23.0	0.0	41.8

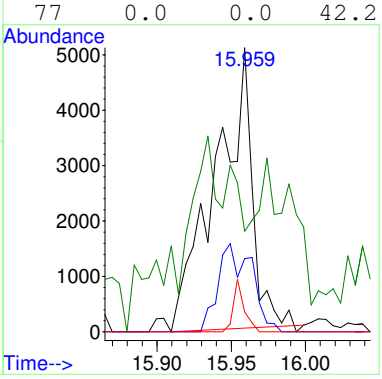


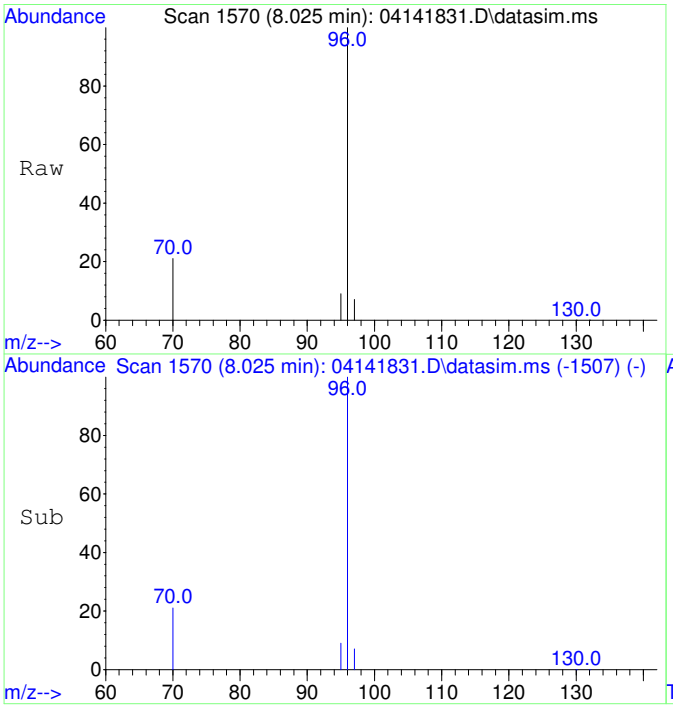


#47
1,2,4-Trimethylbenzene SCAN
Concen: 885.42 ug/L
RT: 15.959 min Scan# 2732
Delta R.T. 0.011 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion:105 Resp: 8728

Ion	Ratio	Lower	Upper
105	100		
120	28.6	12.8	72.8
119	5.5	0.0	42.5
77	0.0	0.0	42.2

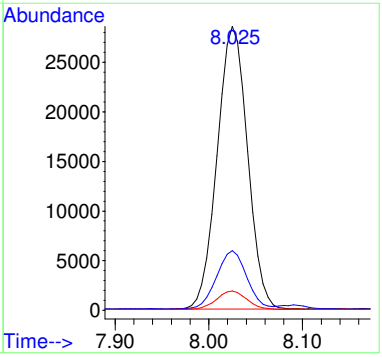




#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. -0.000 min
Lab File: 04141831.D
Acq: 14 Apr 2018 22:44

Tgt Ion: 96 Resp: 63916

Ion	Ratio	Lower	Upper
96	100		
70	21.4	0.0	50.7
97	6.4	0.0	36.7



1804005-04

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141832.D
Acq On : 14 Apr 2018 23:08
InstName : AG5975C
Operator : RH
Sample : 1804005-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 16 09:40:34 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

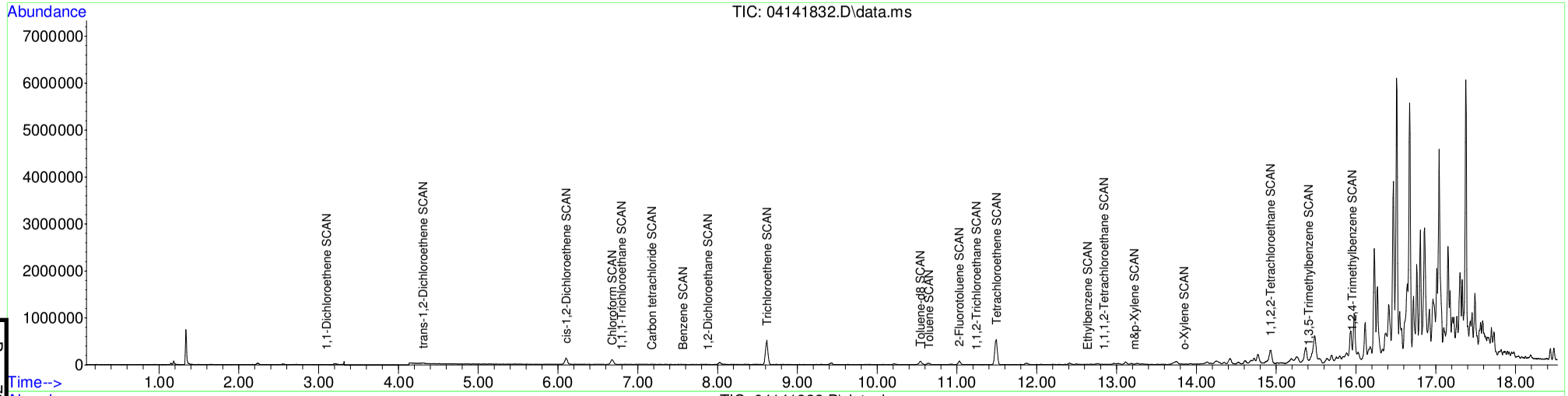
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	104243	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	67386	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	89465	5113.19 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.26%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.253	61	210	45.89 ug/L	65
3] trans-1,2-Dichloroethene	4.303	61	14081	3011.63 ug/L	99
5] cis-1,2-Dichloroethene	6.101	61	152868	26542.29 ug/L	99
6] Chloroform	6.676	83	160993	23768.20 ug/L	99
7] 1,1,1-Trichloroethane	6.932	97	245	37.04 ug/L	81
8] Carbon tetrachloride	7.211	117	1179	195.39 ug/L	95
9] Benzene	7.540	78	1311	78.51 ug/L	83
10] 1,2-Dichloroethane	7.588	62	234	40.19 ug/L #	32
11] Trichloroethene	8.613	130	337950	73454.15 ug/L	99
13] Toluene	10.634	91	43914	1994.08 ug/L	100
14] 1,1,2-Trichloroethane	11.222	97	113	23.22 ug/L #	32
15] Tetrachloroethene	11.495	166	371377	61526.13 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.972	131	358	69.30 ug/L #	42
18] Ethylbenzene	13.036	91	1416	56.64 ug/L #	78
19] m&p-Xylene	13.226	91	3812	194.87 ug/L	94
20] o-Xylene	13.846	91	1529	74.18 ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.929	83	29271	3059.49 ug/L #	49
22] 1,3,5-Trimethylbenzene	15.408	105	1713	71.00 ug/L	70
23] 1,2,4-Trimethylbenzene	15.949	105	4684	190.86 ug/L	90
25) 2-Fluorotoluene SCAN	11.032	109	57480	5706.57 ug/L	96
26) 1,1-Dichloroethene SCAN	3.103	61	139	62.26 ug/L #	1
27) trans-1,2-Dichloroethe...	4.308	61	10168	4648.56 ug/L	69
29) cis-1,2-Dichloroethene...	6.100	61	95750	36445.45 ug/L	91
30) Chloroform SCAN	6.675	83	98958	31218.39 ug/L	81
31) 1,1,1-Trichloroethane ...	6.796	97	327	82.21 ug/L #	29
32) Carbon tetrachloride SCAN	7.174	117	520	181.75 ug/L #	22
33) Benzene SCAN	7.563	78	2706	312.02 ug/L #	74
34) 1,2-Dichloroethane SCAN	7.877	62	126	38.32 ug/L #	1
35) Trichloroethene SCAN	8.617	130	181354	83229.28 ug/L	93
36) Toluene-d8 SCAN	10.539	98	53947	6099.99 ug/L	99
37) Toluene SCAN	10.644	91	25555	2583.71 ug/L	84
38) 1,1,2-Trichloroethane ...	11.242	97	143	47.21 ug/L #	17
39) Tetrachloroethene SCAN	11.494	166	180944	56097.05 ug/L	89
41) 1,1,1,2-Tetrachloroeth...	12.844	131	192	75.98 ug/L #	50
42) Ethylbenzene SCAN	12.637	91	322	24.84 ug/L	79
43) m&p-Xylene SCAN	13.225	91	3136	148.63 ug/L #	71
44) o-Xylene SCAN	13.845	91	1496	130.94 ug/L #	42
45) 1,1,2,2-Tetrachloroeth...	14.931	83	12089	2021.57 ug/L	91
46) 1,3,5-Trimethylbenzene...	15.402	105	1582	120.47 ug/L	62
47) 1,2,4-Trimethylbenzene...	15.948	105	4130	312.01 ug/L #	31

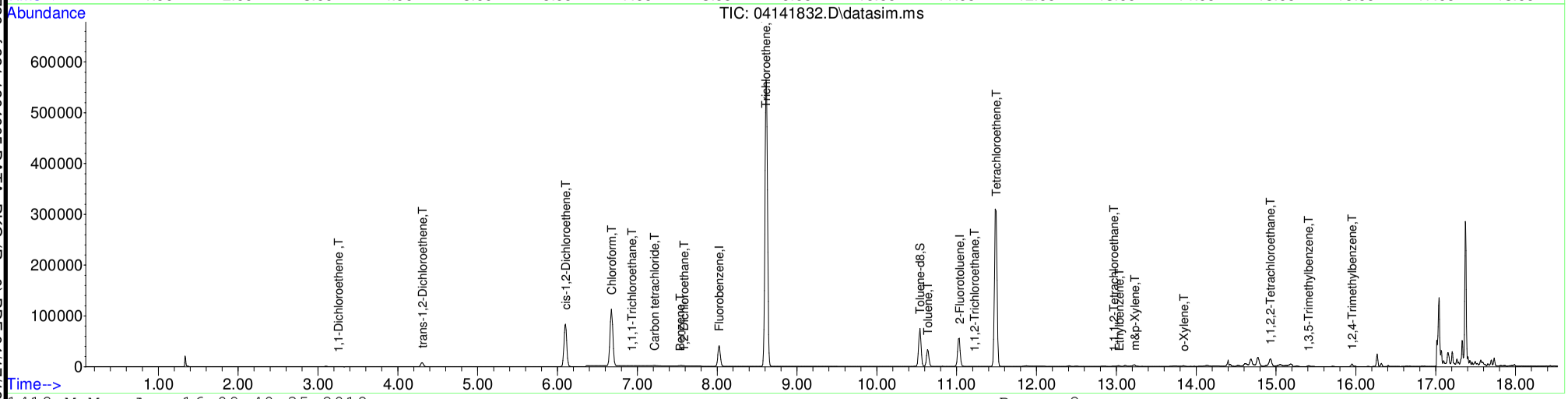
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141832.D
Acq On : 14 Apr 2018 23:08
InstName : AG5975C
Operator : RH
Sample : 1804005-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 16 09:40:34 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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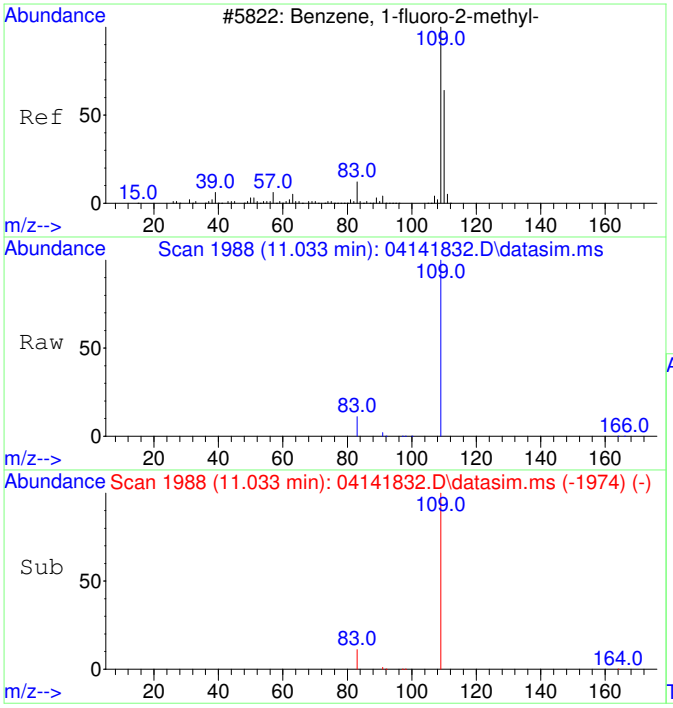
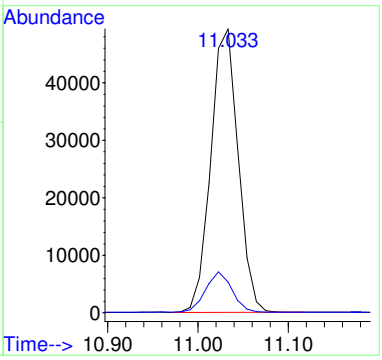
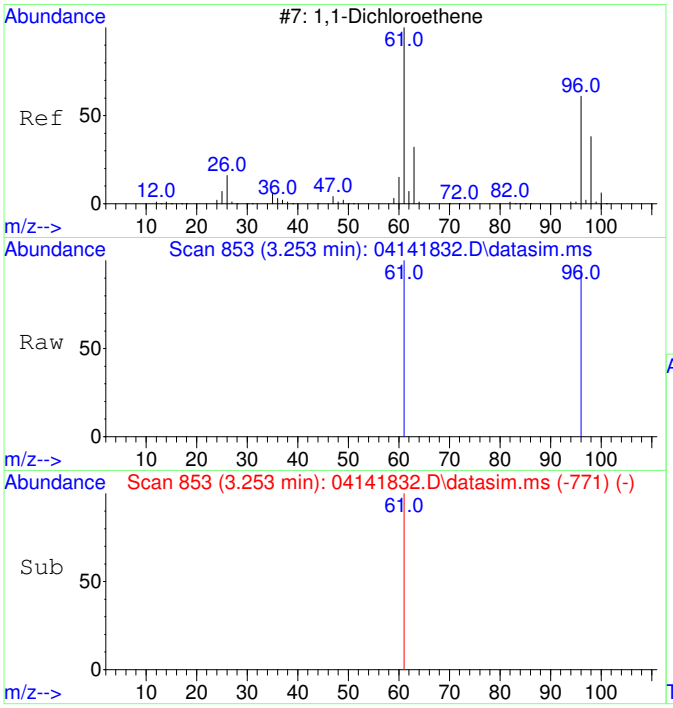


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:109 Resp: 104243

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

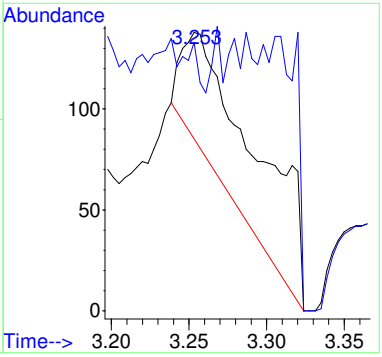




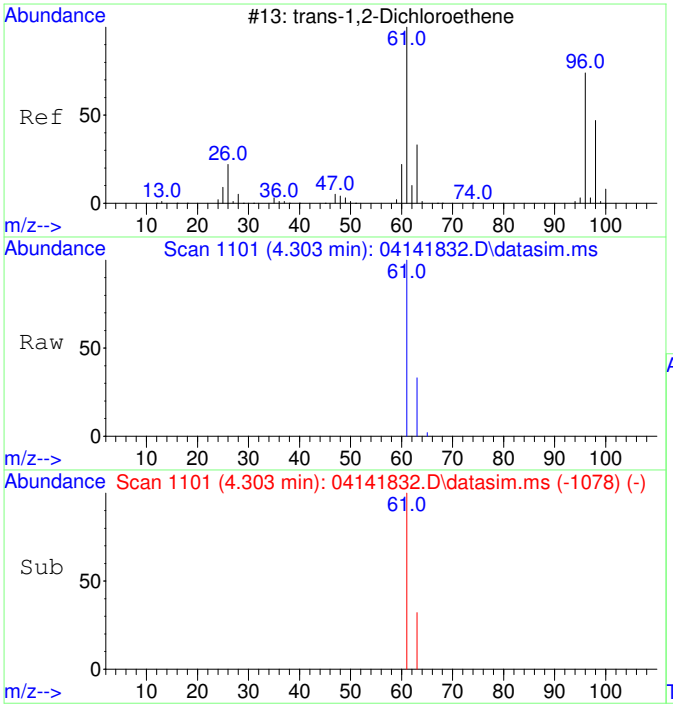
#2
1,1-Dichloroethene
Concen: 45.89 ug/L
RT: 3.253 min Scan# 853
Delta R.T. 0.156 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 210

Ion	Ratio	Lower	Upper
61	100		
96	30.5	26.1	86.1



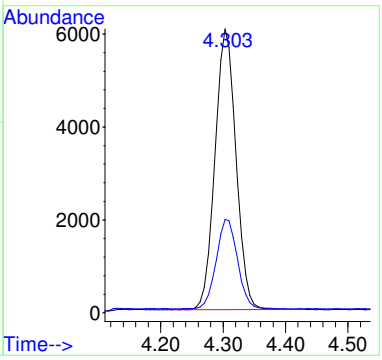
Before MI:
Peak MISSED

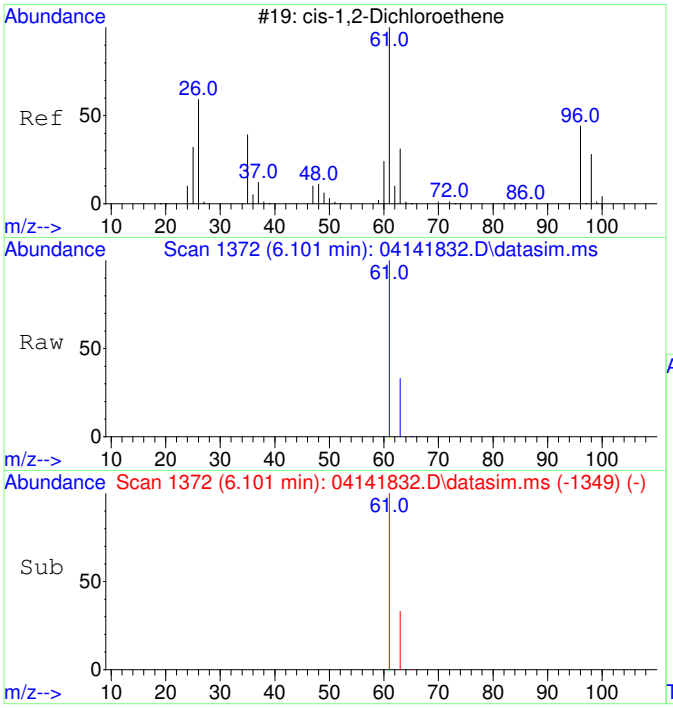


#3
trans-1,2-Dichloroethene
Concen: 3011.63 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 14081

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.0	62.0

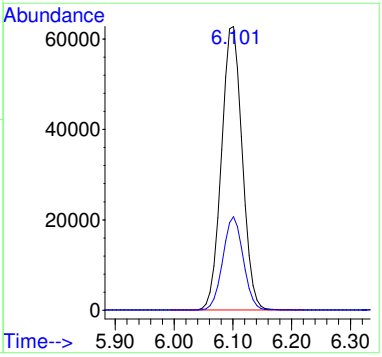


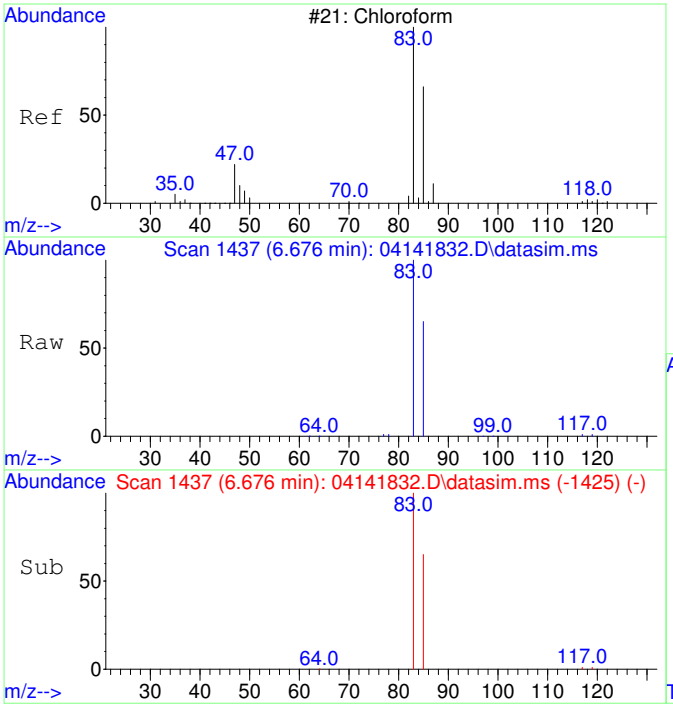


#5
cis-1,2-Dichloroethene
Concen: 26542.29 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 152868

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.0	62.0

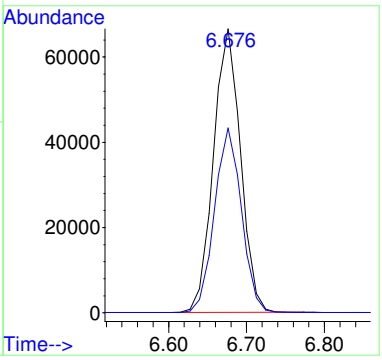


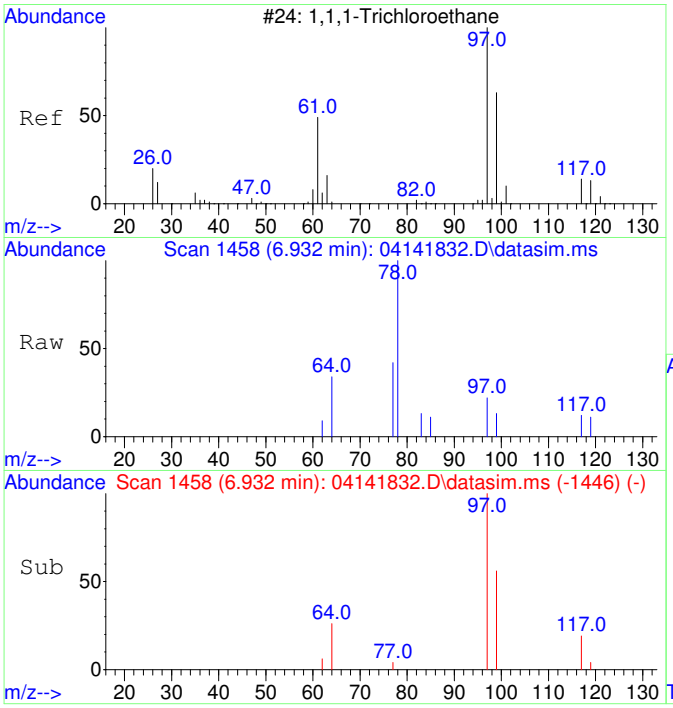


#6
Chloroform
Concen: 23768.20 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 83 Resp: 160993

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.2	94.2

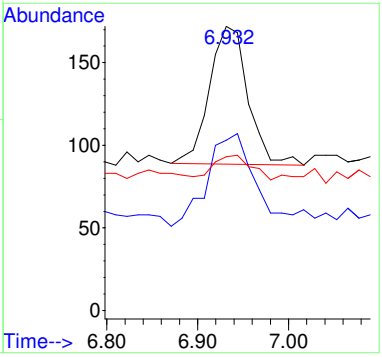


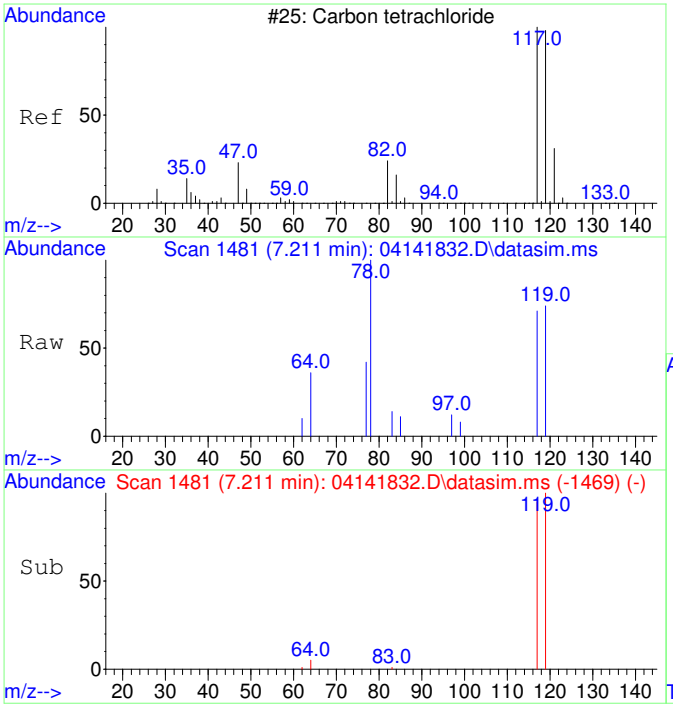


#7
1,1,1-Trichloroethane
Concen: 37.04 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 97 Resp: 245

Ion	Ratio	Lower	Upper
97	100		
99	82.4	34.5	94.5
117	13.5	0.0	42.6

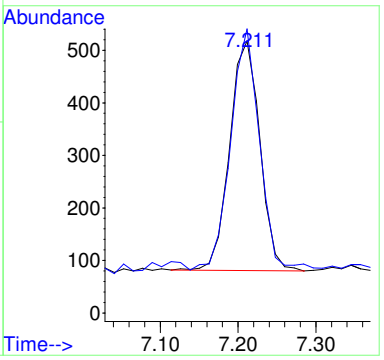


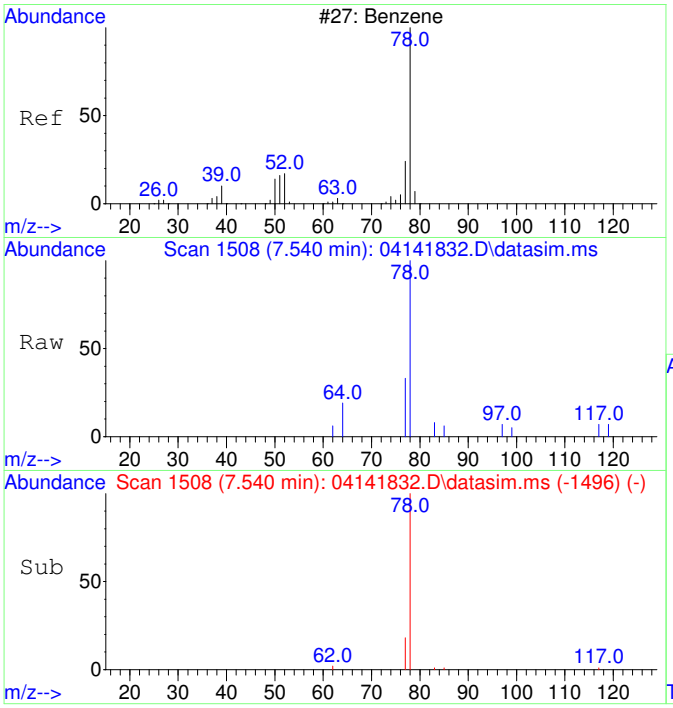


#8
Carbon tetrachloride
Concen: 195.39 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:117 Resp: 1179

Ion	Ratio	Lower	Upper
117	100		
119	99.0	64.5	124.5

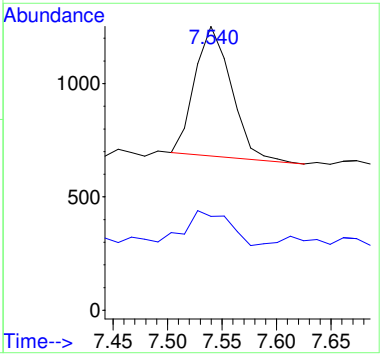


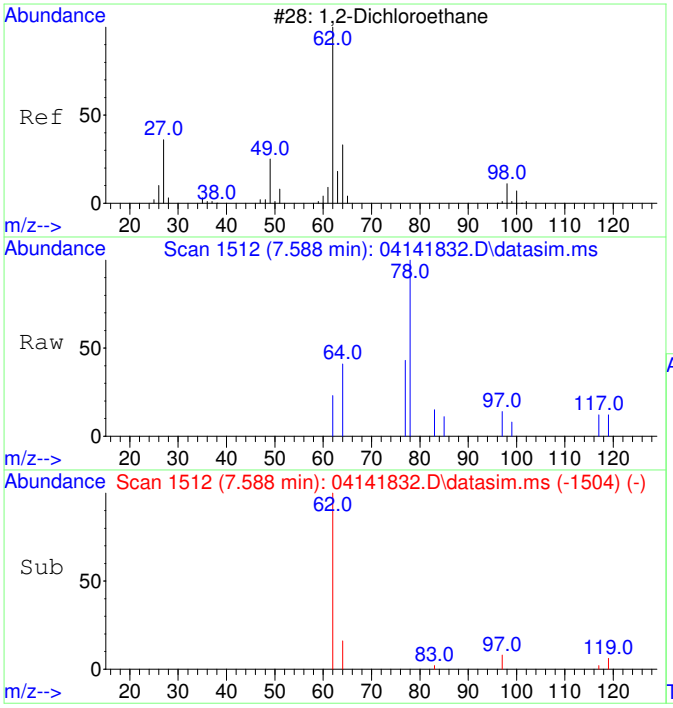


#9
Benzene
Concen: 78.51 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 78 Resp: 1311

Ion	Ratio	Lower	Upper
78	100		
77	32.0	0.0	53.6

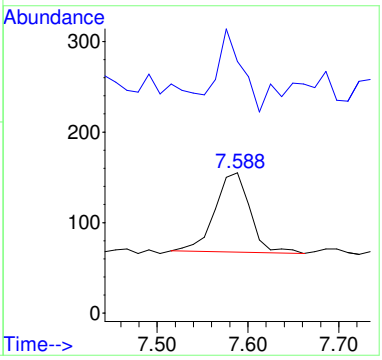


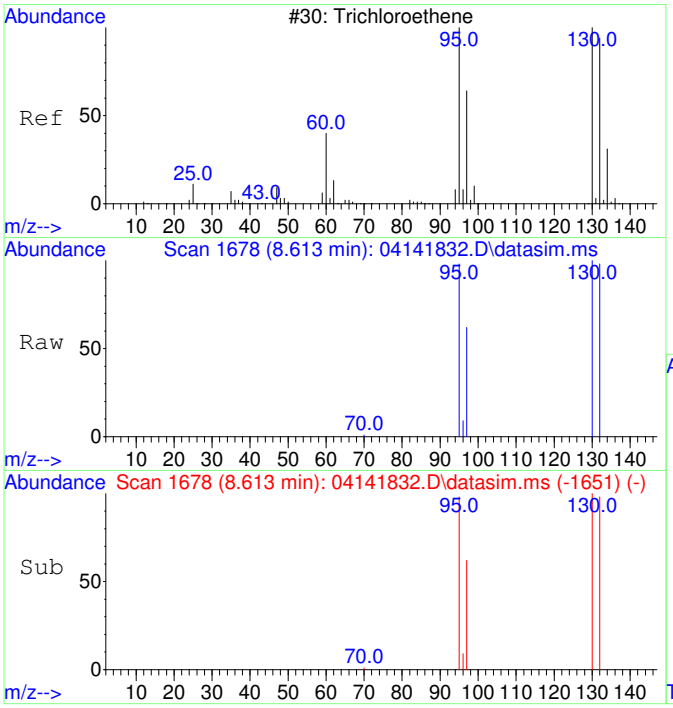


#10
1,2-Dichloroethane
Concen: 40.19 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 62 Resp: 234

Ion	Ratio	Lower	Upper
62	100		
64	69.7	1.8	61.8#

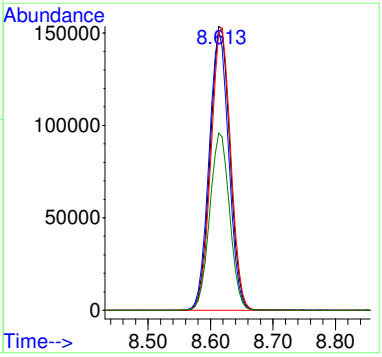


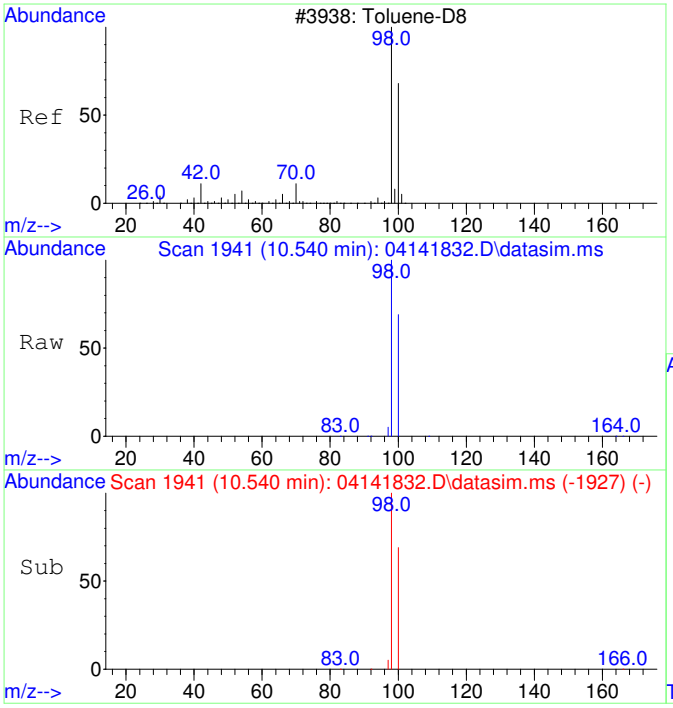


#11
Trichloroethene
Concen: 73454.15 ug/L
RT: 8.613 min Scan# 1678
Delta R.T. -0.005 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:130 Resp: 337950

Ion	Ratio	Lower	Upper
130	100		
95	97.4	68.8	128.8
132	99.0	78.6	118.6
97	62.3	43.7	83.7

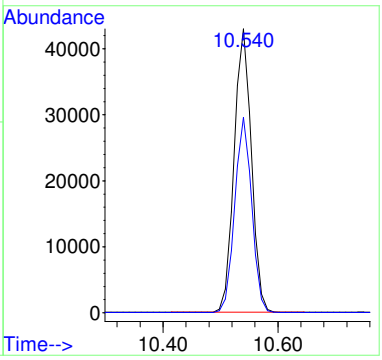


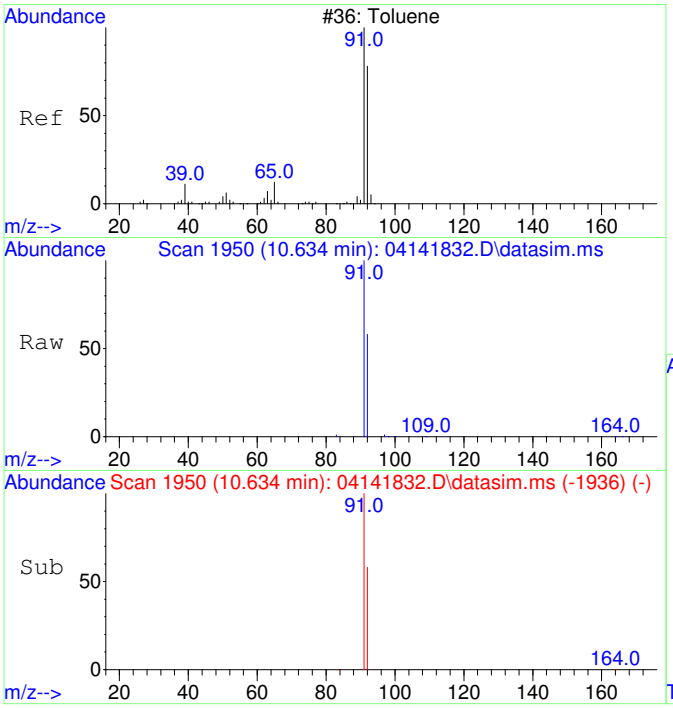


#12
Toluene-d8
Concen: 5113.19 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 98 Resp: 89465

Ion	Ratio	Lower	Upper
98	100		
100	67.6	36.9	96.9

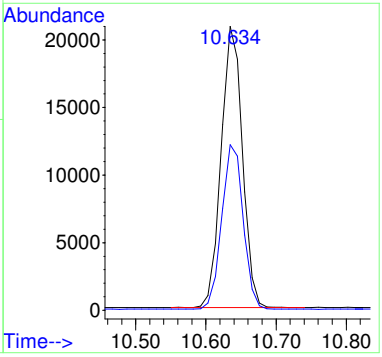


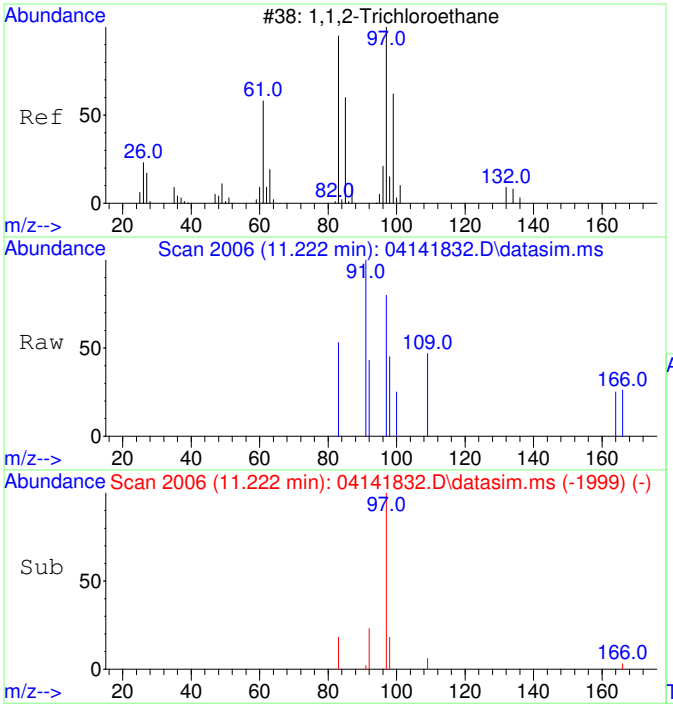


#13
Toluene
Concen: 1994.08 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 43914

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.8	88.8

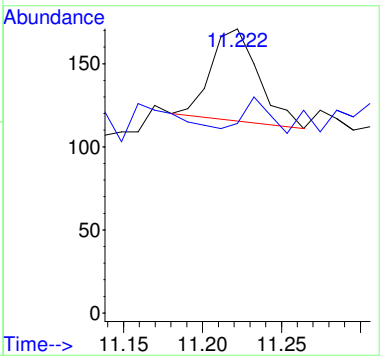


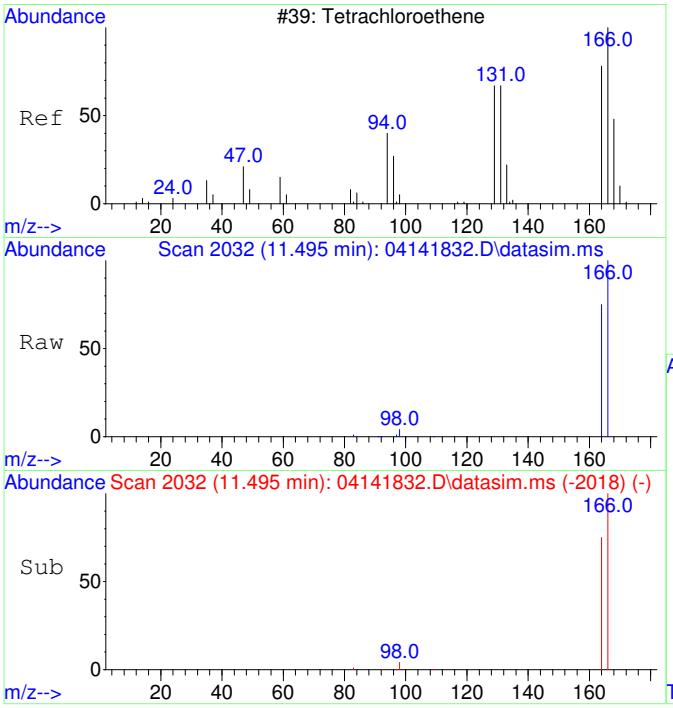


#14
1,1,2-Trichloroethane
Concen: 23.22 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.073 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 97 Resp: 113

Ion	Ratio	Lower	Upper
97	100		
83	22.1	54.3	114.3#

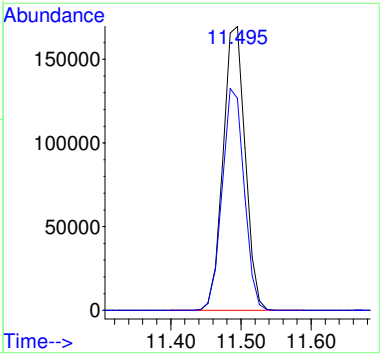


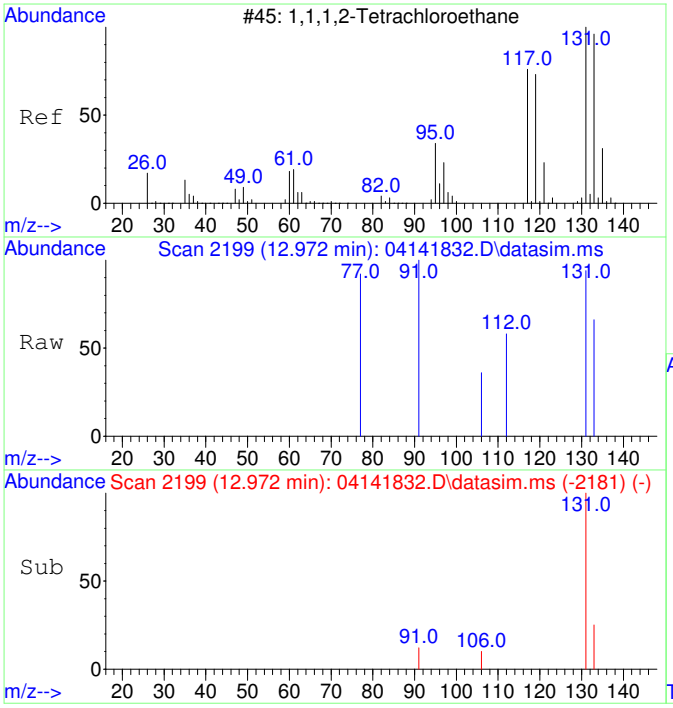


#15
Tetrachloroethene
Concen: 61526.13 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:166 Resp: 371377

Ion	Ratio	Lower	Upper
166	100		
164	77.6	48.0	108.0

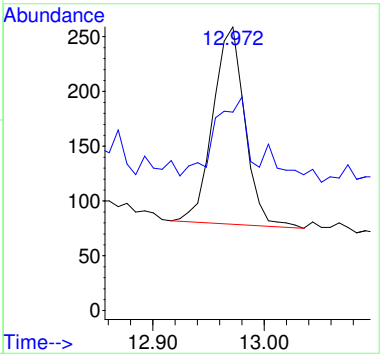


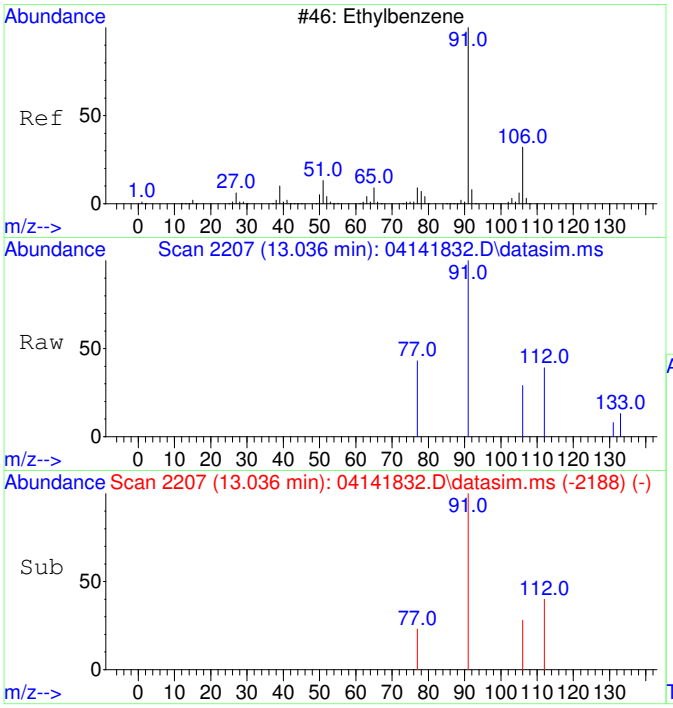


#17
1,1,1,2-Tetrachloroethane
Concen: 69.30 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.008 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:131 Resp: 358

Ion	Ratio	Lower	Upper
131	100		
133	38.8	65.1	125.1#

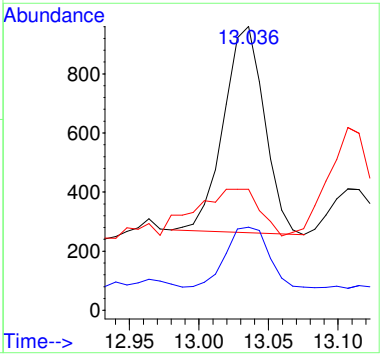


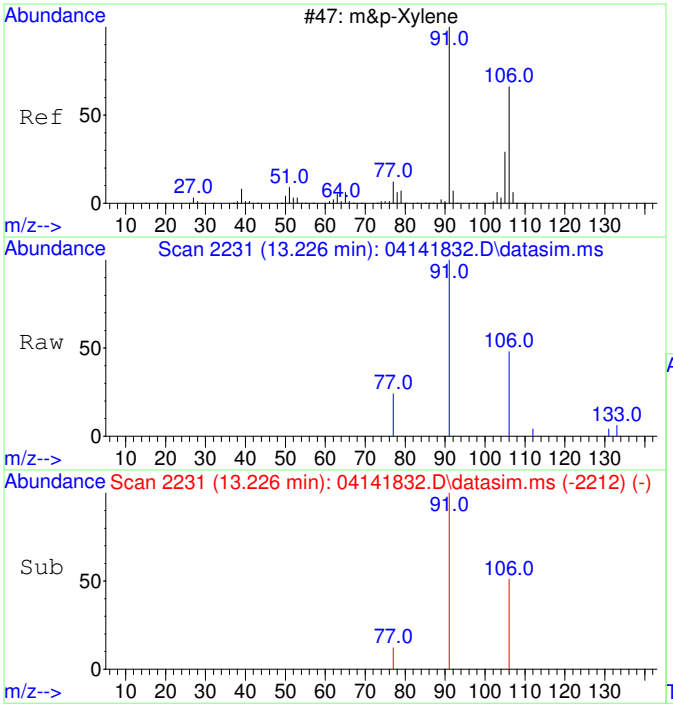


#18
Ethylbenzene
Concen: 56.64 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 1416

Ion	Ratio	Lower	Upper
91	100		
106	30.7	1.8	61.8
77	43.3	0.0	38.7#

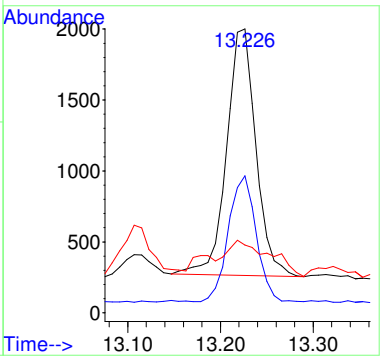


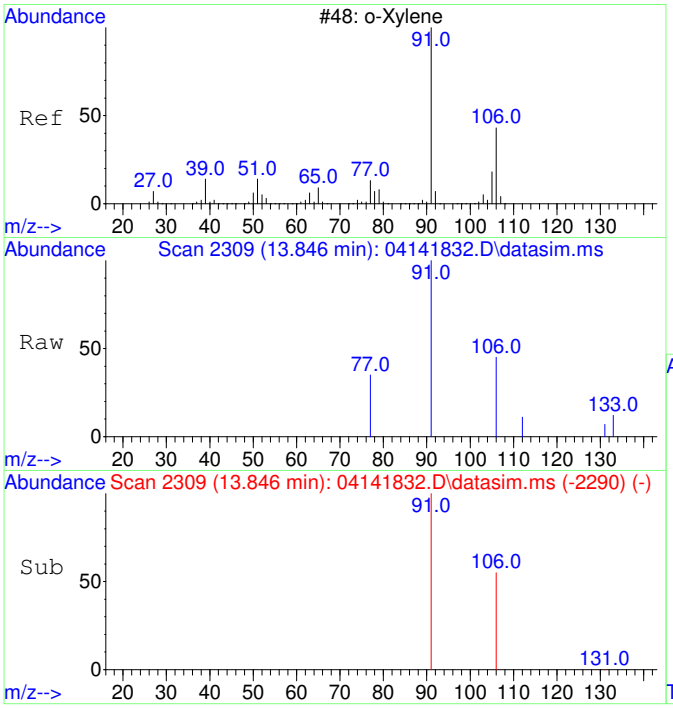


#19
m&p-Xylene
Concen: 194.87 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 3812

Ion	Ratio	Lower	Upper
91	100		
106	48.4	20.0	80.0
77	21.5	0.0	43.4

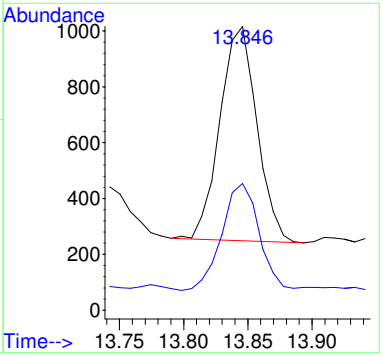


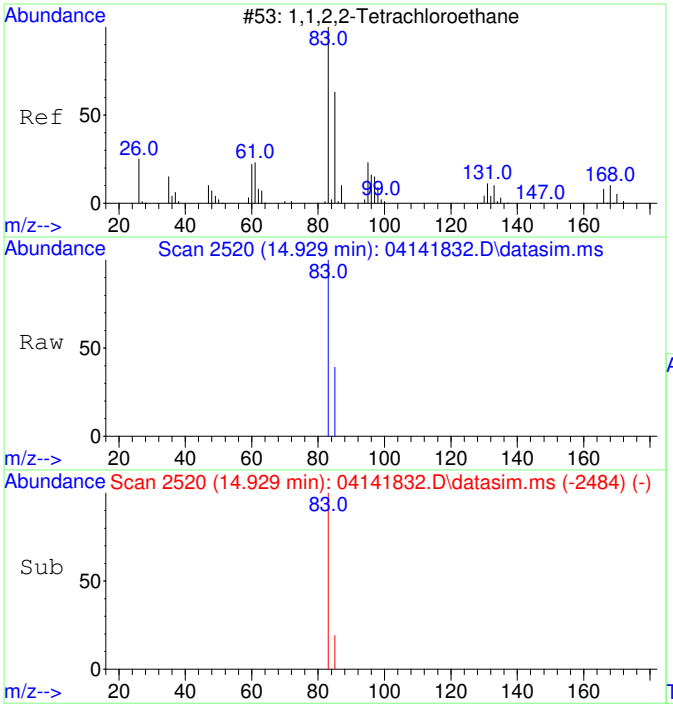


#20
o-Xylene
Concen: 74.18 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 1529

Ion	Ratio	Lower	Upper
91	100		
106	50.3	16.9	76.9

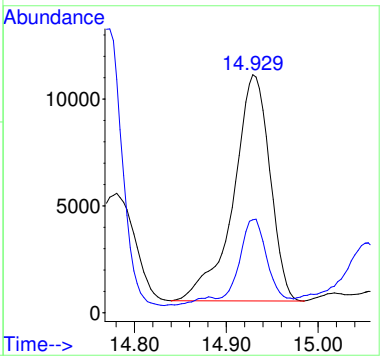


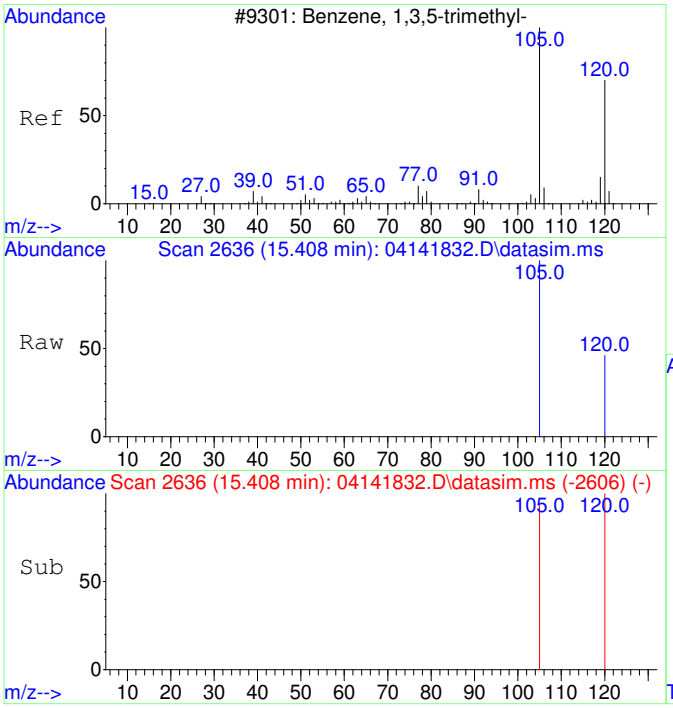


#21
1,1,2,2-Tetrachloroethane
Concen: 3059.49 ug/L
RT: 14.929 min Scan# 2520
Delta R.T. -0.015 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 83 Resp: 29271

Ion	Ratio	Lower	Upper
83	100		
85	24.3	34.3	94.3#

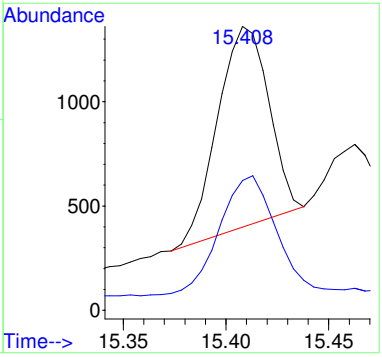


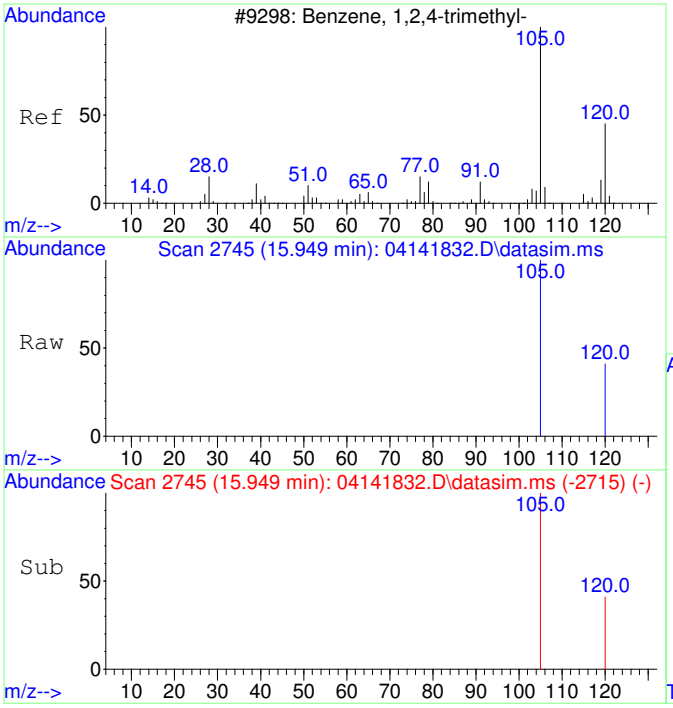


#22
1,3,5-Trimethylbenzene
Concen: 71.00 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:105 Resp: 1713

Ion	Ratio	Lower	Upper
105	100		
120	68.1	18.1	78.1

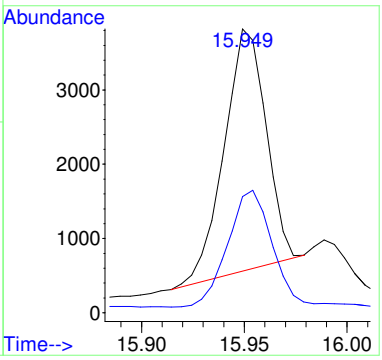


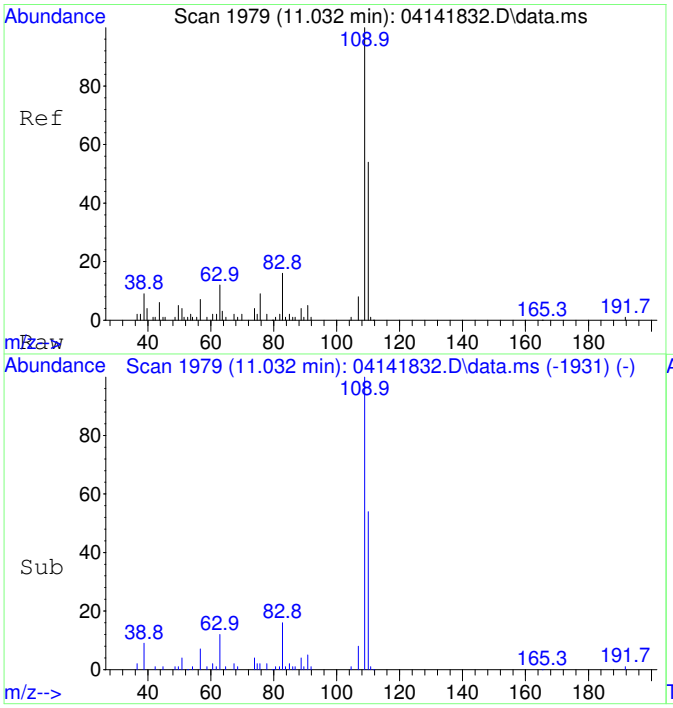


#23
1,2,4-Trimethylbenzene
Concen: 190.86 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:105 Resp: 4684

Ion	Ratio	Lower	Upper
105	100		
120	51.3	14.5	74.5

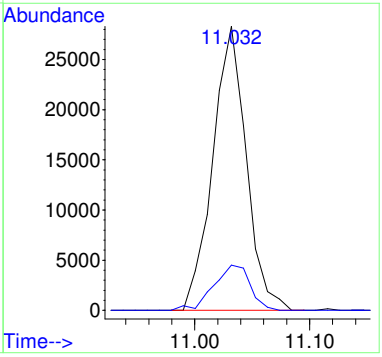


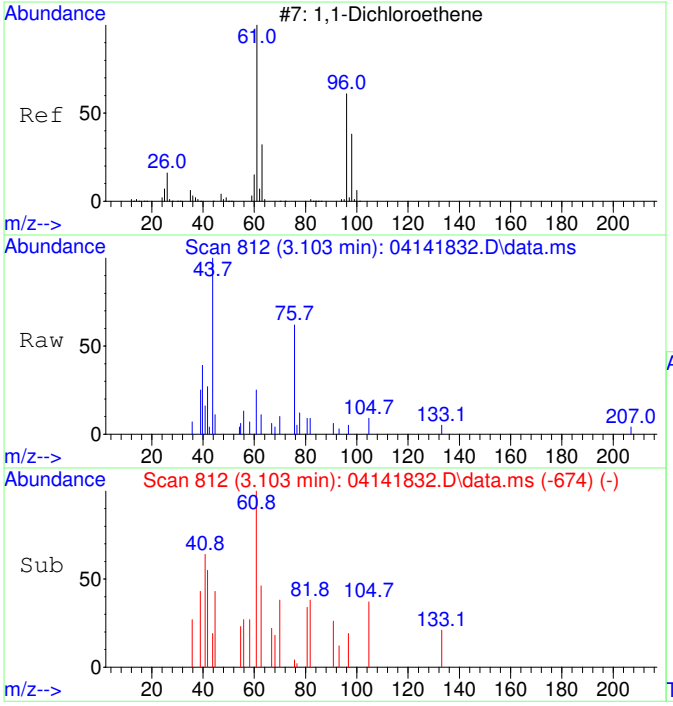


#25
2-Fluorotoluene SCAN
Concen: 5706.57 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:109 Resp: 57480

Ion	Ratio	Lower	Upper
109	100		
83	17.3	0.0	49.2

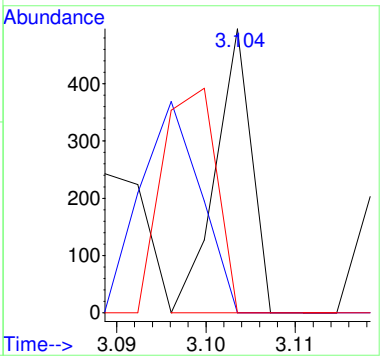


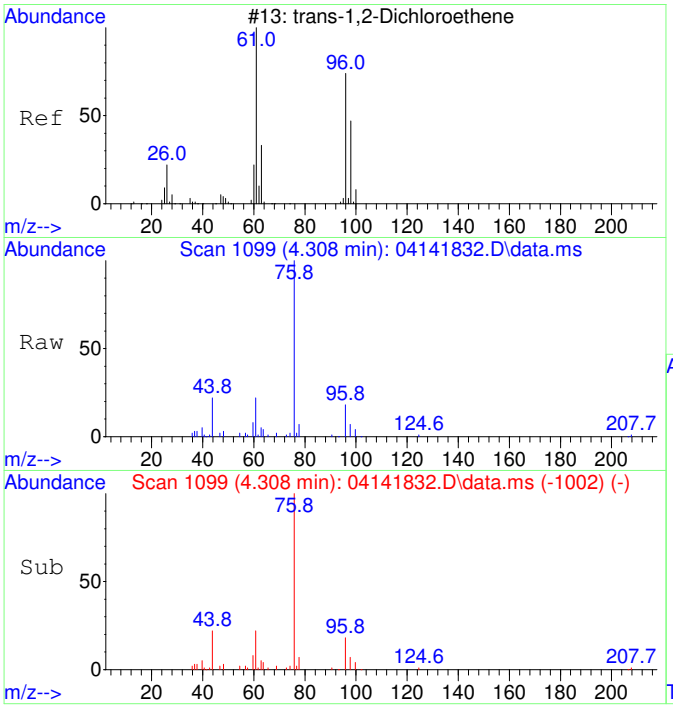


#26
1,1-Dichloroethene SCAN
Concen: 62.26 ug/L
RT: 3.103 min Scan# 812
Delta R.T. 0.011 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 139

Ion	Ratio	Lower	Upper
61	100		
96	123.7	21.6	81.6#
98	119.4	7.5	67.5#

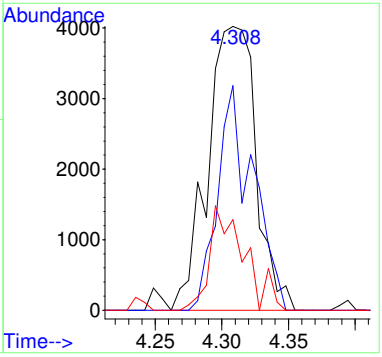


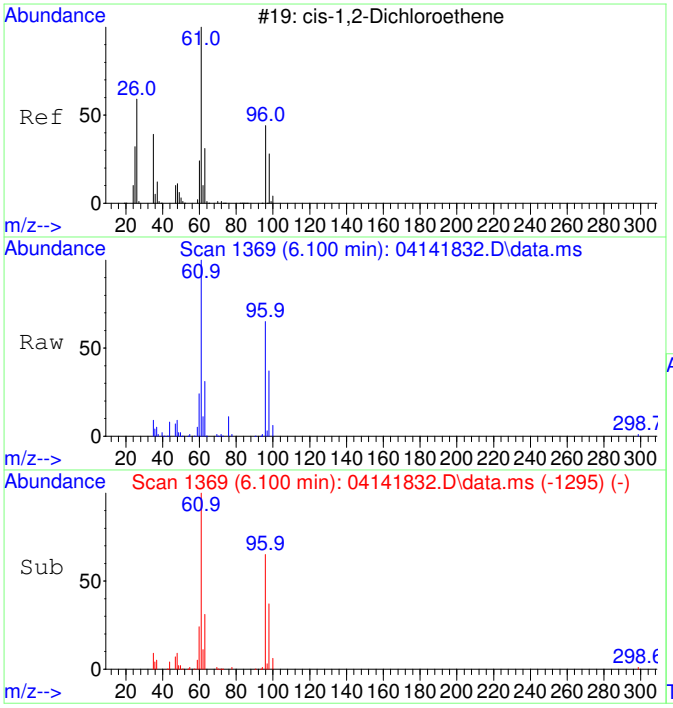


#27
trans-1,2-Dichloroethene SCAN
Concen: 4648.56 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 10168

Ion	Ratio	Lower	Upper
61	100		
96	58.1	51.8	111.8
98	26.5	22.7	82.7

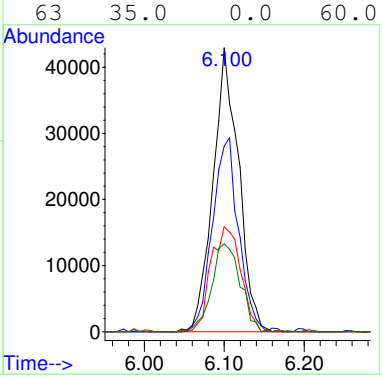


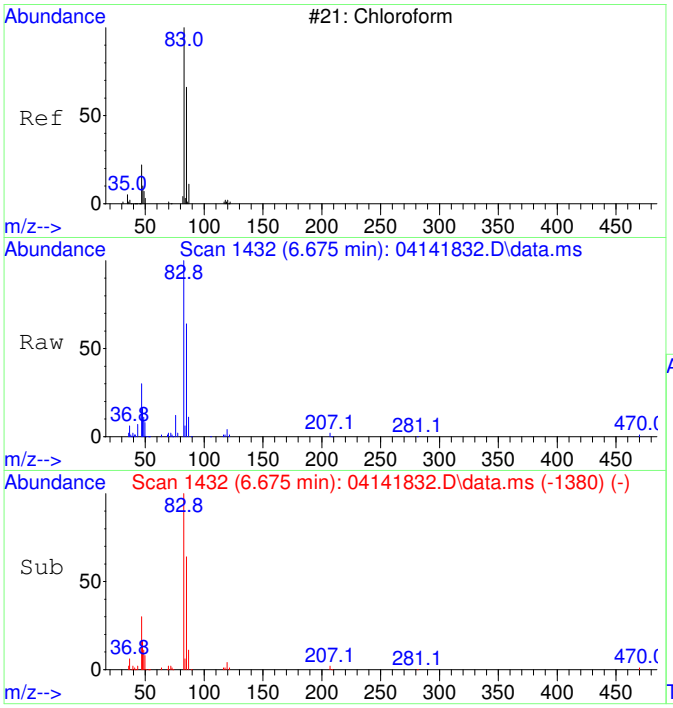


#29
cis-1,2-Dichloroethene SCAN
Concen: 36445.45 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.007 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 95750

Ion	Ratio	Lower	Upper
61	100		
96	69.8	49.4	109.4
98	42.7	9.5	69.5
63	35.0	0.0	60.0

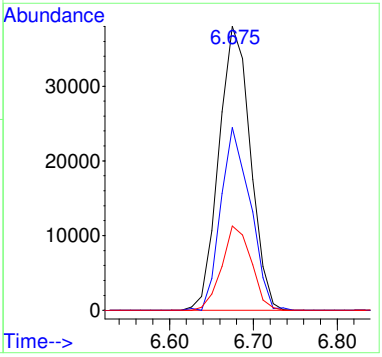


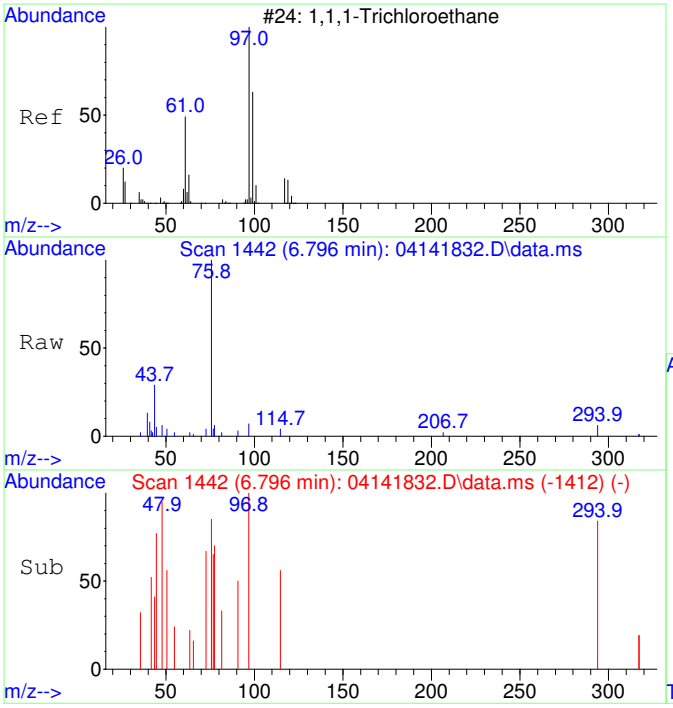


#30
Chloroform SCAN
Concen: 31218.39 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 83 Resp: 98958

Ion	Ratio	Lower	Upper
83	100		
85	60.2	47.8	107.8
47	27.8	8.2	68.2

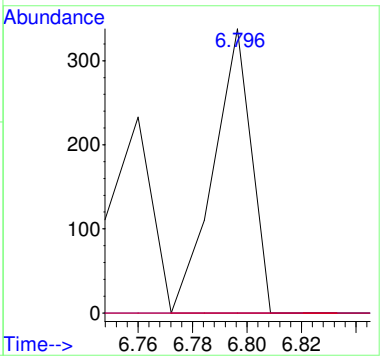


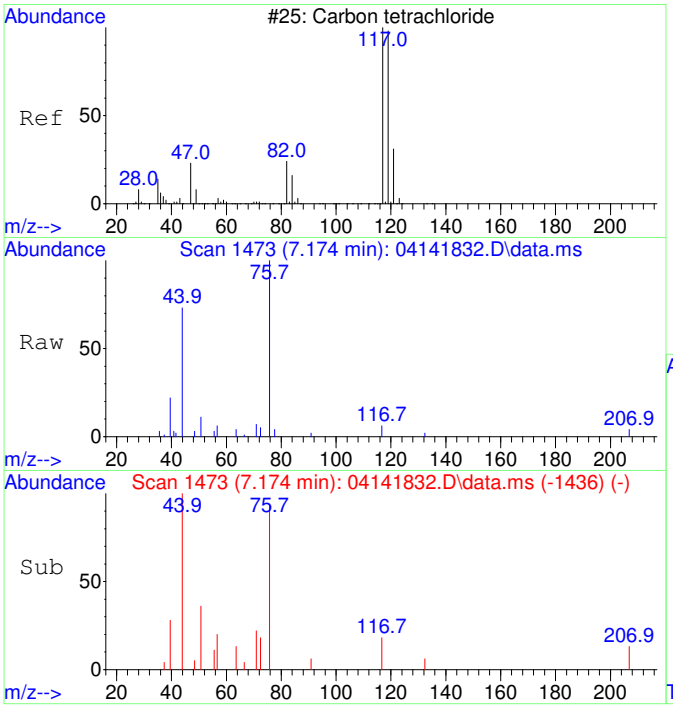


#31
1,1,1-Trichloroethane SCAN
Concen: 82.21 ug/L
RT: 6.796 min Scan# 1442
Delta R.T. -0.134 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 97 Resp: 327

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

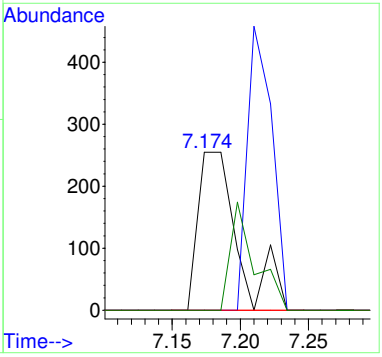


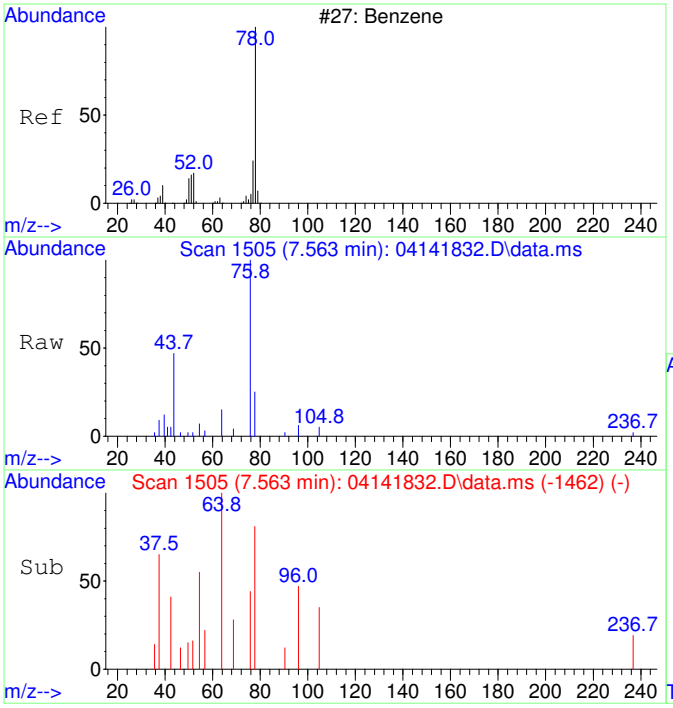


#32
Carbon tetrachloride SCAN
Concen: 181.75 ug/L
RT: 7.174 min Scan# 1473
Delta R.T. -0.049 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:117 Resp: 520

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

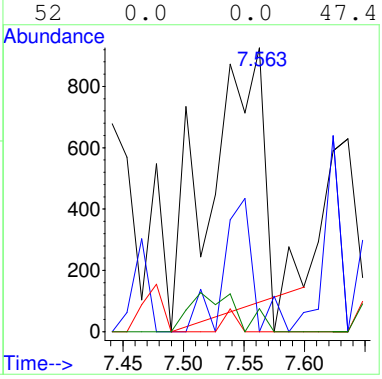


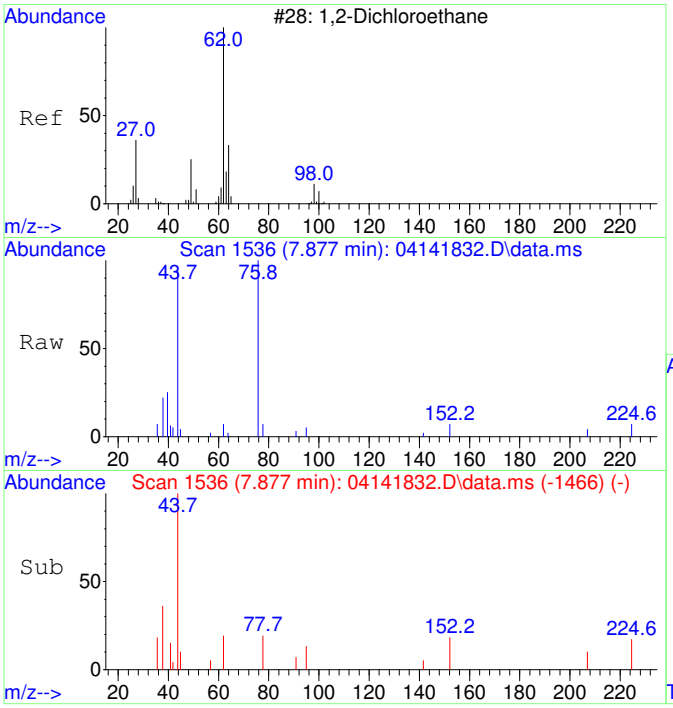


#33
Benzene SCAN
Concen: 312.02 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.024 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 78 Resp: 2706

Ion	Ratio	Lower	Upper
78	100		
77	28.4	5.4	65.4
51	0.0	0.0	47.2
52	0.0	0.0	47.4

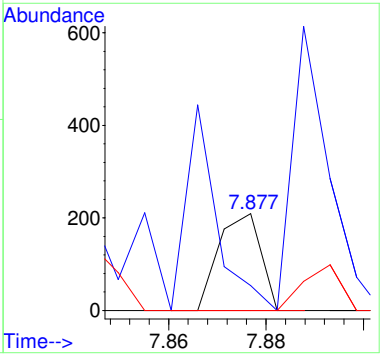


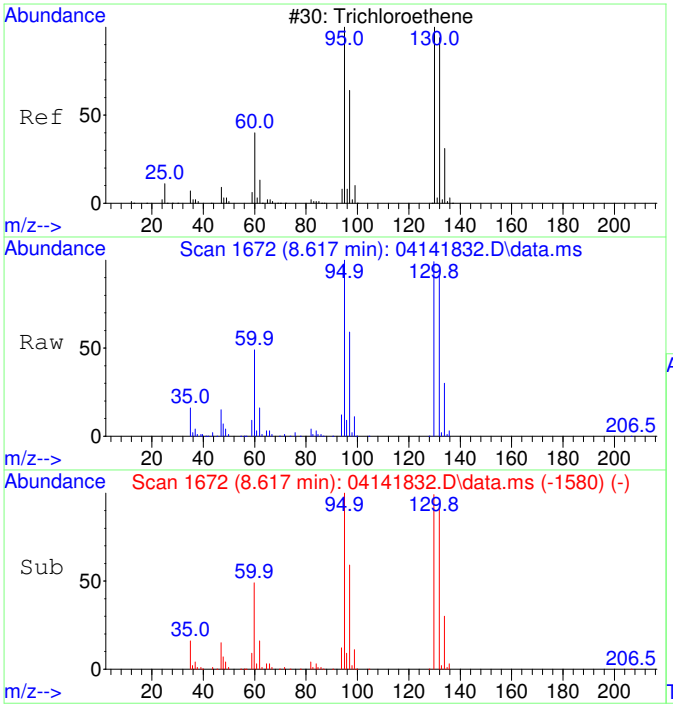


#34
1,2-Dichloroethane SCAN
Concen: 38.32 ug/L
RT: 7.877 min Scan# 1536
Delta R.T. 0.290 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 62 Resp: 126

Ion	Ratio	Lower	Upper
62	100		
64	156.3	4.4	64.4#
49	0.0	1.2	61.2#

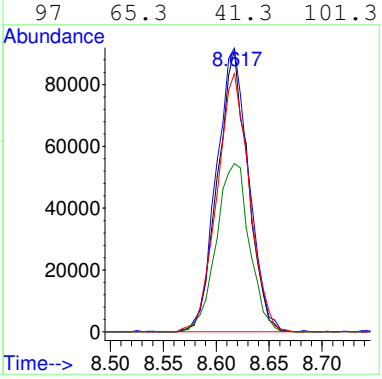


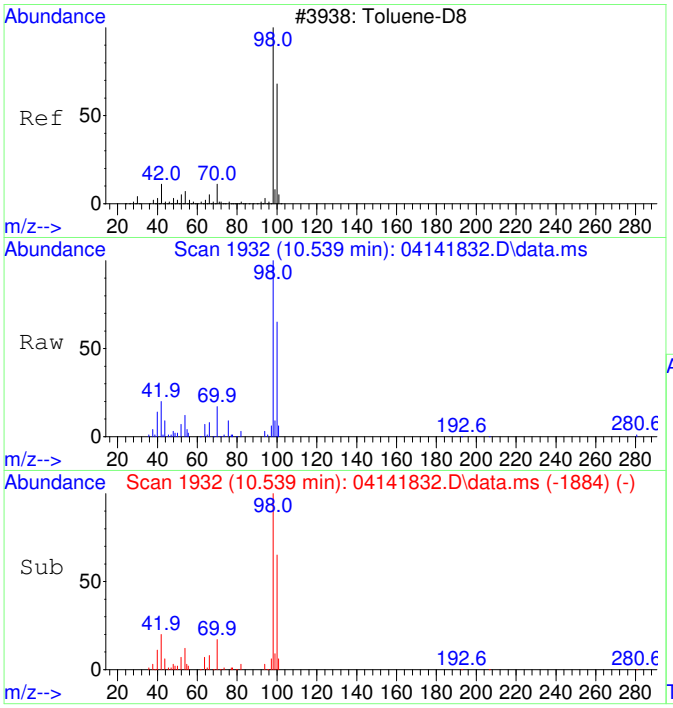


#35
Trichloroethene SCAN
Concen: 83229.28 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:130 Resp: 181354

Ion	Ratio	Lower	Upper
130	100		
95	107.2	71.3	131.3
132	97.9	75.1	135.1
97	65.3	41.3	101.3

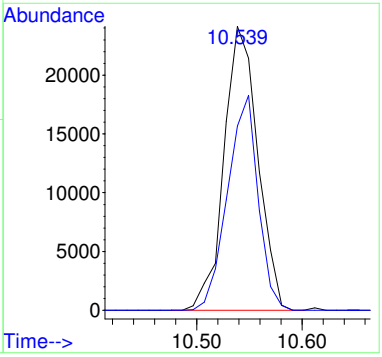


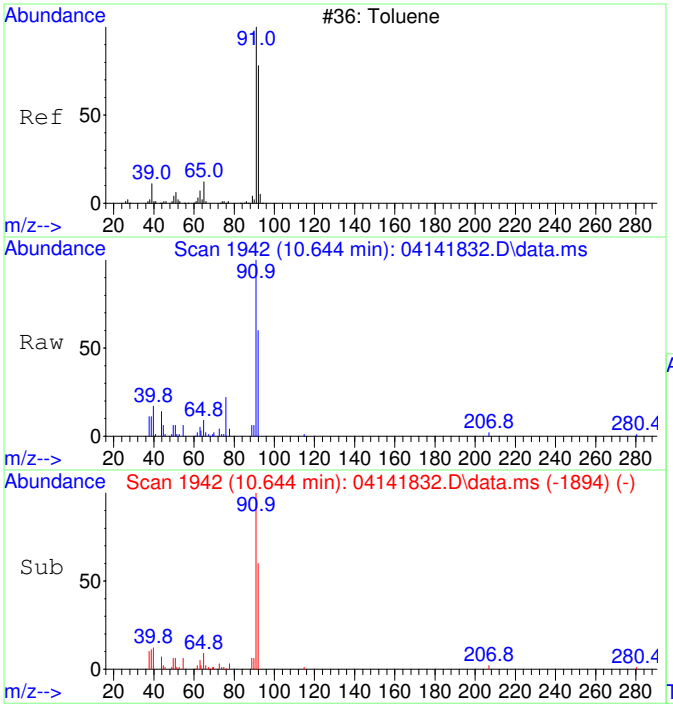


#36
Toluene-d8 SCAN
Concen: 6099.99 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 98 Resp: 53947

Ion	Ratio	Lower	Upper
98	100		
100	68.4	37.3	97.3

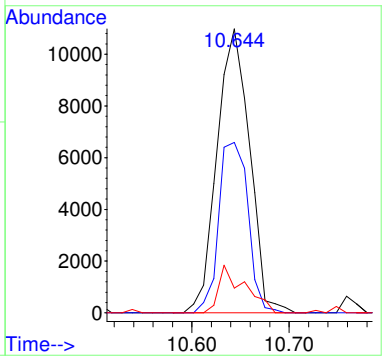


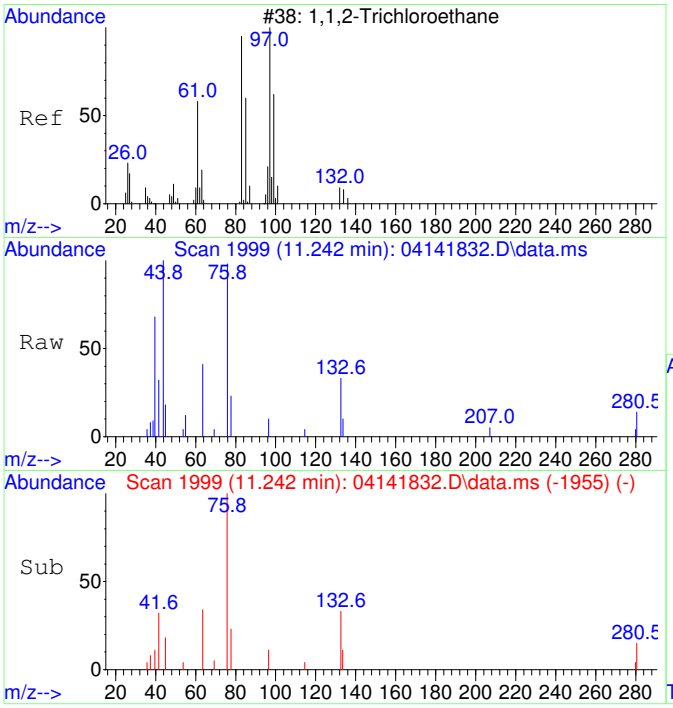


#37
Toluene SCAN
Concen: 2583.71 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 25555

Ion	Ratio	Lower	Upper
91	100		
92	54.0	39.1	99.1
65	13.4	0.0	43.8

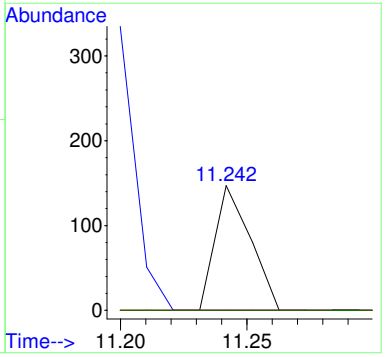


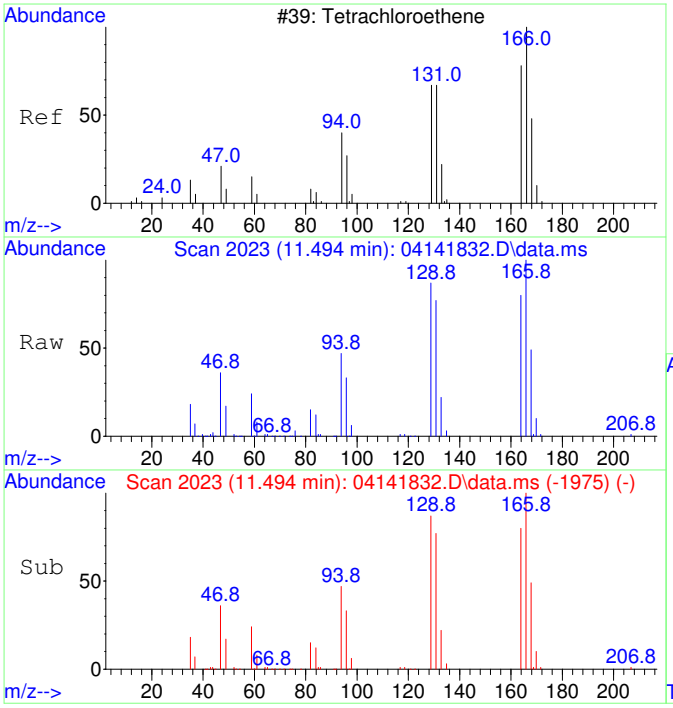


#38
1,1,2-Trichloroethane SCAN
Concen: 47.21 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. -0.042 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 97 Resp: 143

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

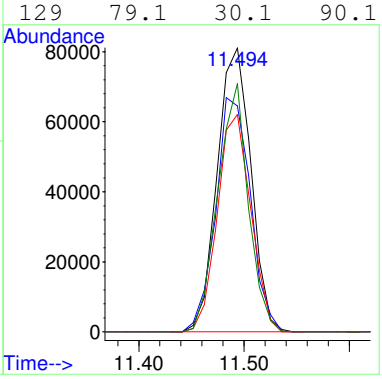


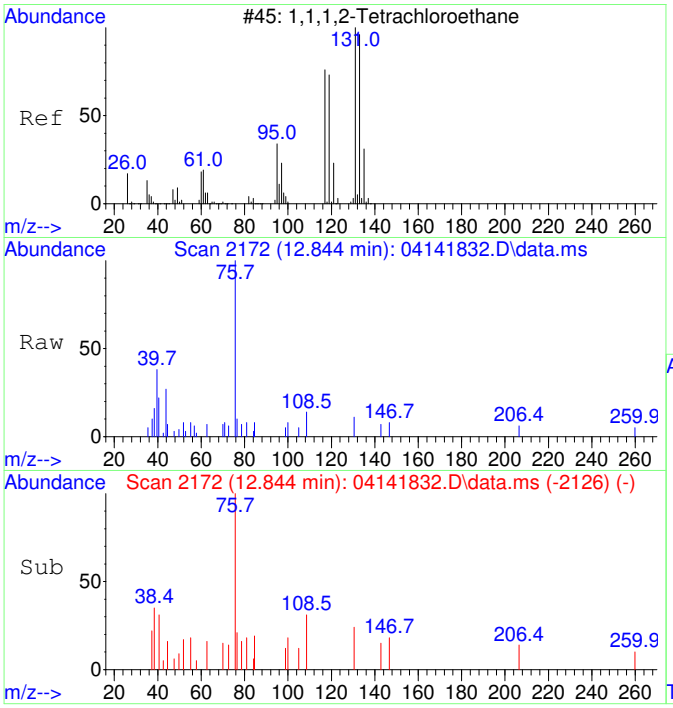


#39
Tetrachloroethene SCAN
Concen: 56097.05 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:166 Resp: 180944

Ion	Ratio	Lower	Upper
166	100		
164	84.7	49.8	109.8
131	75.8	42.0	102.0
129	79.1	30.1	90.1

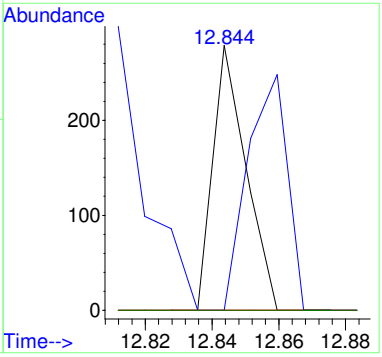


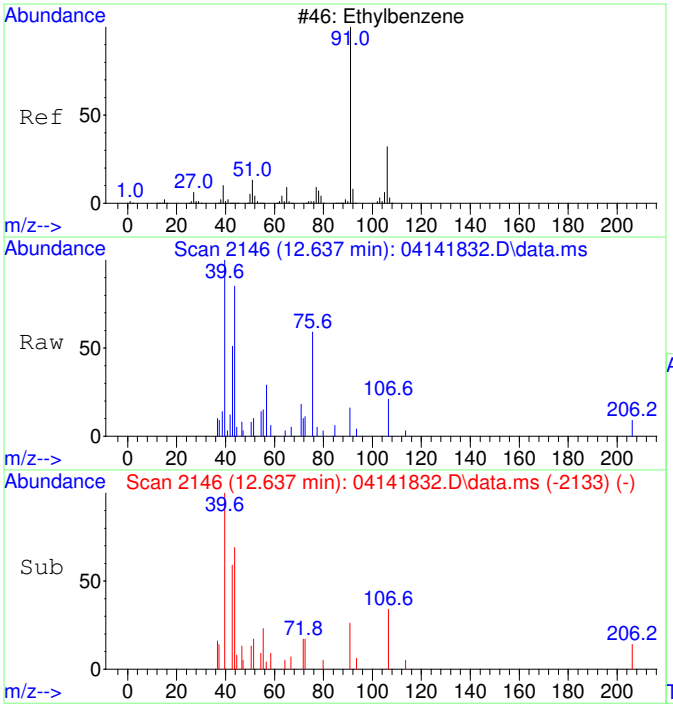


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 75.98 ug/L
RT: 12.844 min Scan# 2172
Delta R.T. -0.135 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:131 Resp: 192

Ion	Ratio	Lower	Upper
131	100		
133	106.3	78.7	138.7
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

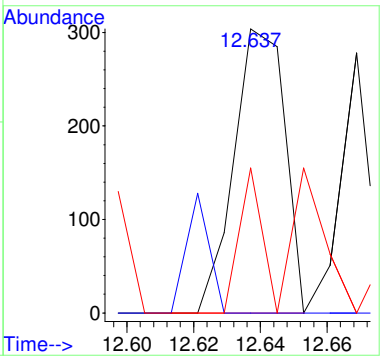


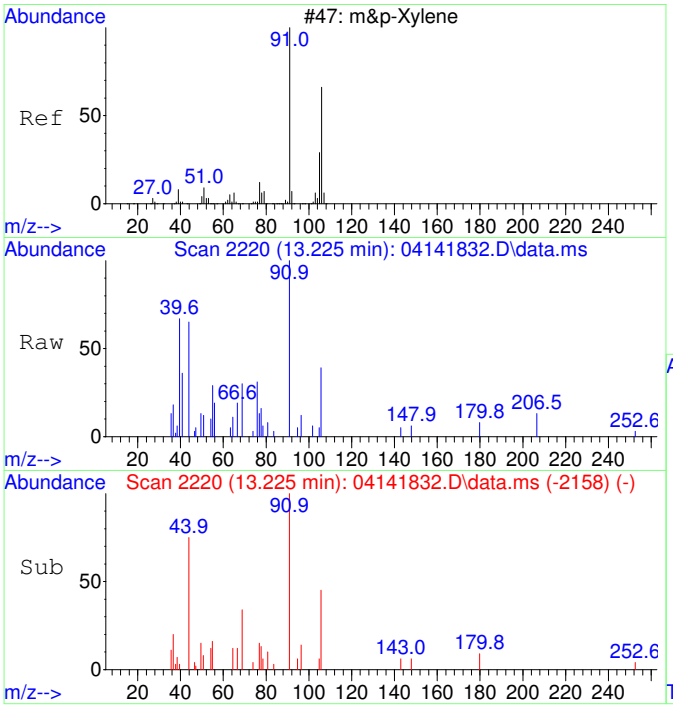


#42
Ethylbenzene SCAN
Concen: 24.84 ug/L
RT: 12.637 min Scan# 2146
Delta R.T. -0.397 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 322

Ion	Ratio	Lower	Upper
91	100		
106	18.9	1.8	61.8
51	23.0	0.0	45.4

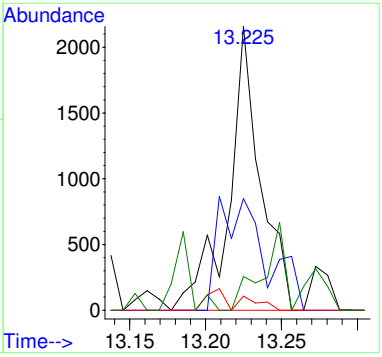


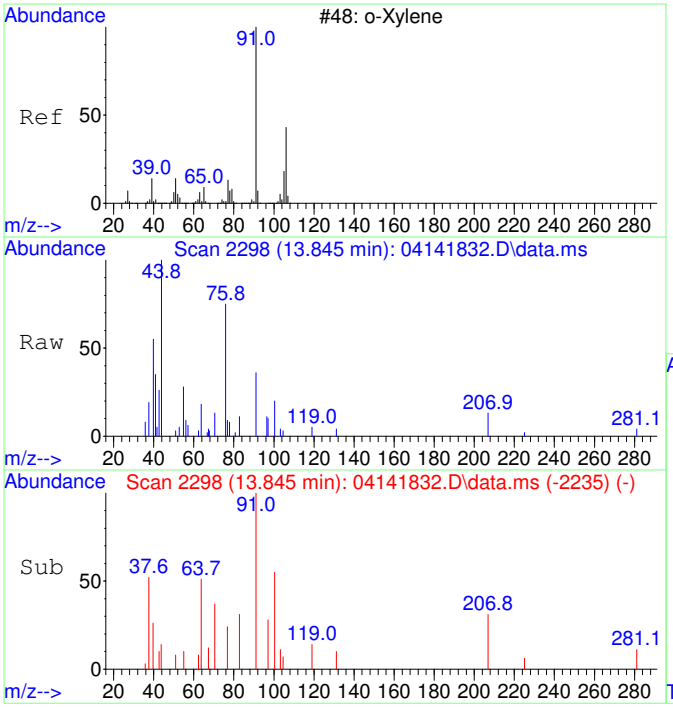


#43
m&p-Xylene SCAN
Concen: 148.63 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 3136

Ion	Ratio	Lower	Upper
91	100		
106	59.1	14.6	74.6
105	4.2	0.0	52.8
51	0.0	0.0	44.5

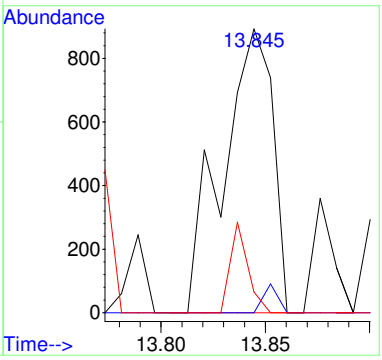


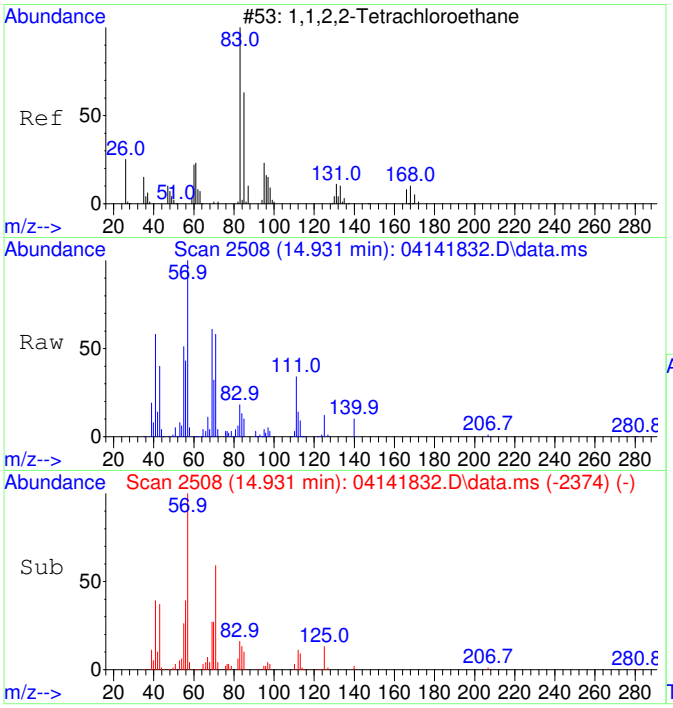


#44
o-Xylene SCAN
Concen: 130.94 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 1496

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	11.2	0.0	54.9

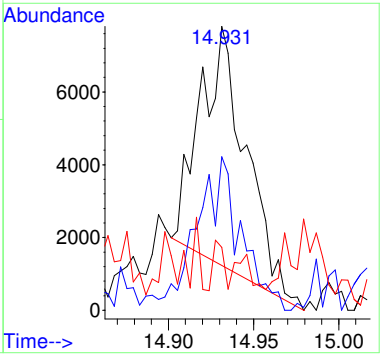


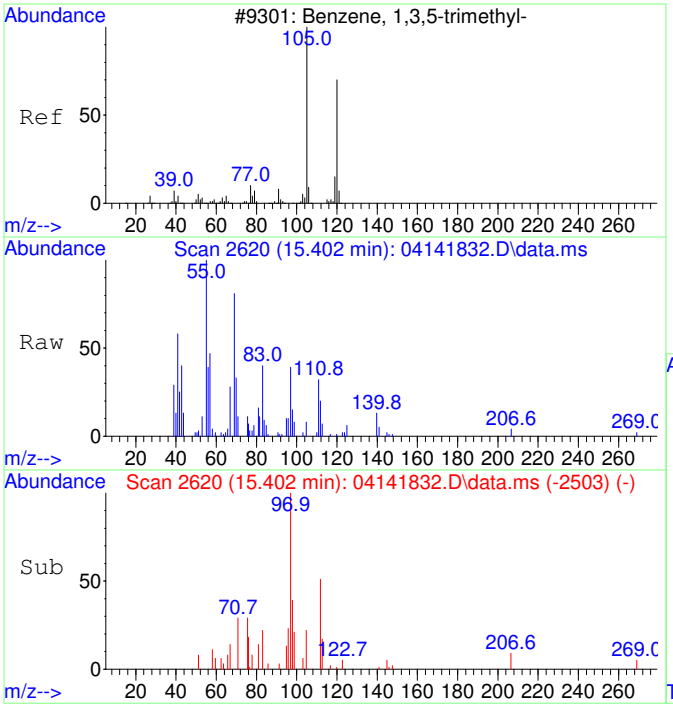


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 2021.57 ug/L
RT: 14.931 min Scan# 2508
Delta R.T. -0.004 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 83 Resp: 12089

Ion	Ratio	Lower	Upper
83	100		
85	56.6	32.4	92.4
95	4.7	0.0	41.2

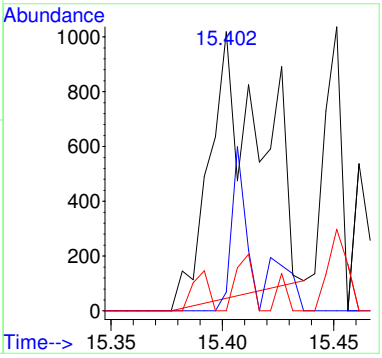


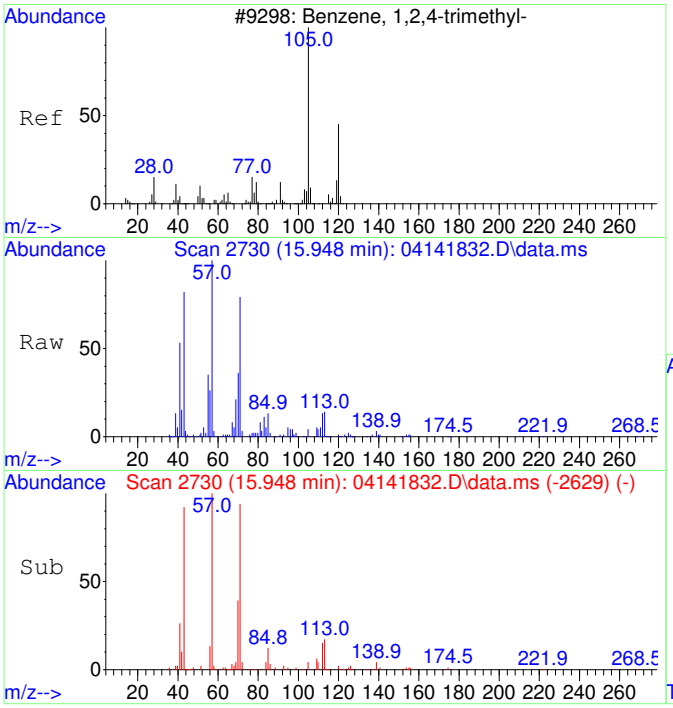


#46
1,3,5-Trimethylbenzene SCAN
Concen: 120.47 ug/L
RT: 15.402 min Scan# 2620
Delta R.T. -0.010 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:105 Resp: 1582

Ion	Ratio	Lower	Upper
105	100		
120	16.7	16.1	76.1
119	6.9	0.0	41.8

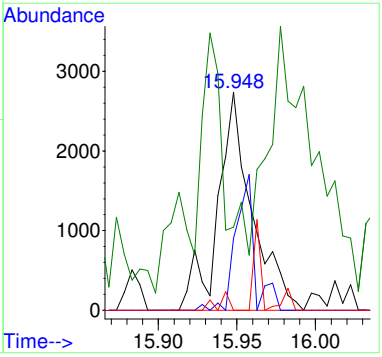


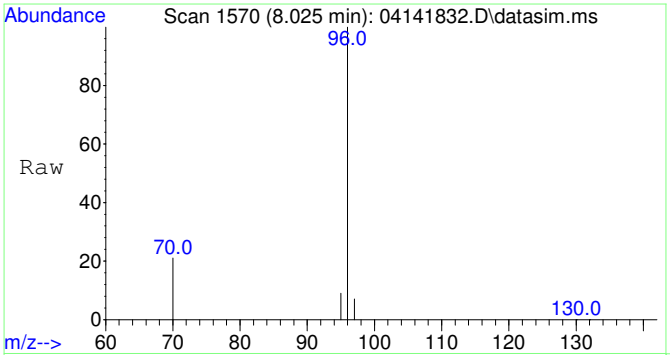


#47
1,2,4-Trimethylbenzene SCAN
Concen: 312.01 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:105 Resp: 4130

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.8	72.8#
119	2.6	0.0	42.5
77	58.6	0.0	42.2#

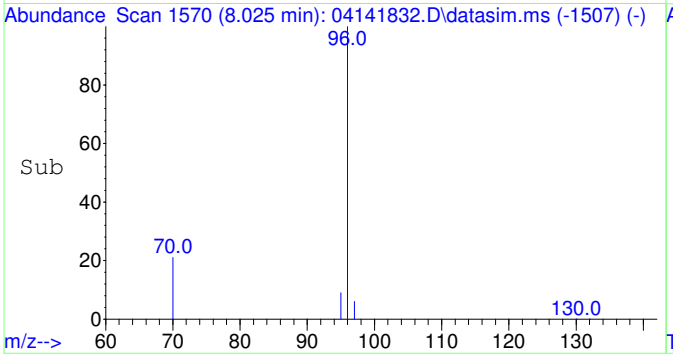


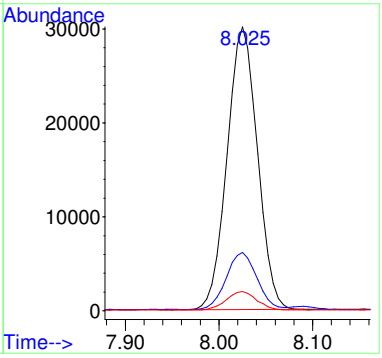


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 96 Resp: 67386

Ion	Ratio	Lower	Upper
96	100		
70	21.0	0.0	50.7
97	6.6	0.0	36.7





Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141832.D
Acq On : 14 Apr 2018 23:08
InstName : AG5975C
Operator : RH
Sample : 1804005-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

M.I. Performed By:
RH at 10:00 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:18 pm, Apr 16, 2018

Quant Time: Apr 16 09:40:34 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

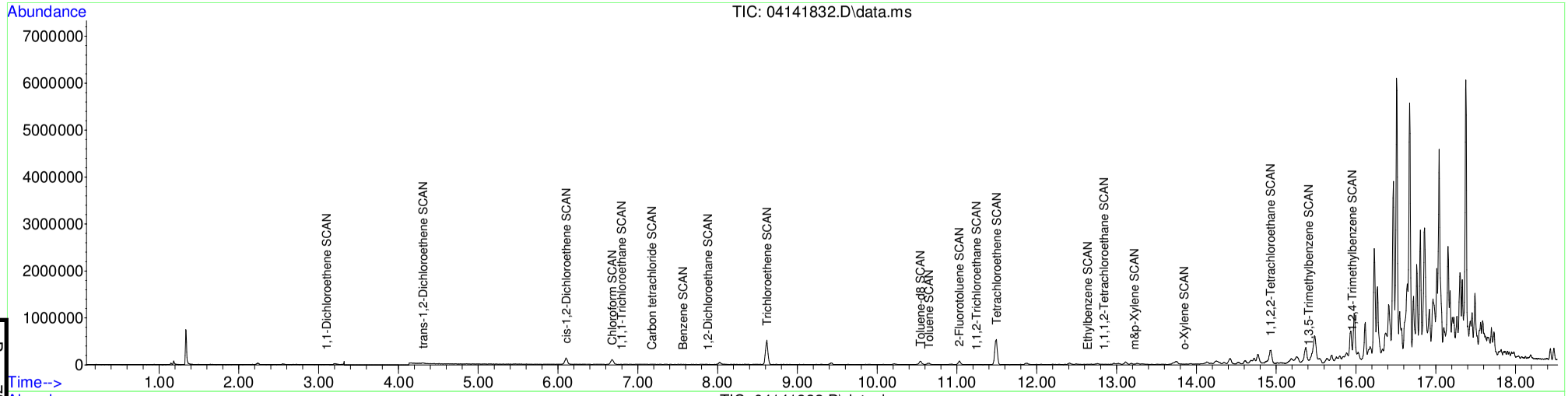
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	104243	5000.00 ug/L	0.00
49) Fluorobenzene	8.025	96	67386	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	89465	5113.19 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.26%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	738m	161.28 ug/L	
3] trans-1,2-Dichloroethene	4.303	61	14081	3011.63 ug/L	99
5] cis-1,2-Dichloroethene	6.101	61	152868	26542.29 ug/L	99 OC
6] Chloroform	6.676	83	160993	23768.20 ug/L	99
7] 1,1,1-Trichloroethane	6.932	97	245	37.04 ug/L	81
8] Carbon tetrachloride	7.211	117	1179	195.39 ug/L	95
9] Benzene	7.540	78	1311	78.51 ug/L	83
10] 1,2-Dichloroethane	7.588	62	234	40.19 ug/L #	32
11] Trichloroethene	8.613	130	337950	73454.15 ug/L	99 OC
13] Toluene	10.634	91	43914	1994.08 ug/L	100
14] 1,1,2-Trichloroethane	11.222	97	113	23.22 ug/L #	32
15] Tetrachloroethene	11.495	166	371377	61526.13 ug/L	99 OC
17] 1,1,1,2-Tetrachloroethane	12.972	131	358	69.30 ug/L #	42
18] Ethylbenzene	13.036	91	1416	56.64 ug/L #	78
19] m&p-Xylene	13.226	91	3812	194.87 ug/L	94
20] o-Xylene	13.846	91	1529	74.18 ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.929	83	29271	3059.49 ug/L #	49
22] 1,3,5-Trimethylbenzene	15.408	105	1713	71.00 ug/L	70
23] 1,2,4-Trimethylbenzene	15.949	105	4684	190.86 ug/L	90
25) 2-Fluorotoluene SCAN	11.032	109	57480	5706.57 ug/L	96
26) 1,1-Dichloroethene SCAN	3.103	61	139	62.26 ug/L #	1
27) trans-1,2-Dichloroethe...	4.308	61	10168	4648.56 ug/L	69
29) cis-1,2-Dichloroethene...	6.100	61	95750	36445.45 ug/L	91
30) Chloroform SCAN	6.675	83	98958	31218.39 ug/L	81
31) 1,1,1-Trichloroethane ...	6.796	97	327	82.21 ug/L #	29
32) Carbon tetrachloride SCAN	7.174	117	520	181.75 ug/L #	22
33) Benzene SCAN	7.563	78	2706	312.02 ug/L #	74
34) 1,2-Dichloroethane SCAN	7.877	62	126	38.32 ug/L #	1
35) Trichloroethene SCAN	8.617	130	181354	83229.28 ug/L	93
36) Toluene-d8 SCAN	10.539	98	53947	6099.99 ug/L	99
37) Toluene SCAN	10.644	91	25555	2583.71 ug/L	84
38) 1,1,2-Trichloroethane ...	11.242	97	143	47.21 ug/L #	17
39) Tetrachloroethene SCAN	11.494	166	180944	56097.05 ug/L	89
41) 1,1,1,2-Tetrachloroeth...	12.844	131	192	75.98 ug/L #	50
42) Ethylbenzene SCAN	12.637	91	322	24.84 ug/L	79
43) m&p-Xylene SCAN	13.225	91	3136	148.63 ug/L #	71
44) o-Xylene SCAN	13.845	91	1496	130.94 ug/L #	42
45) 1,1,2,2-Tetrachloroeth...	14.931	83	12089	2021.57 ug/L	91
46) 1,3,5-Trimethylbenzene...	15.402	105	1582	120.47 ug/L	62
47) 1,2,4-Trimethylbenzene...	15.948	105	4130	312.01 ug/L #	31

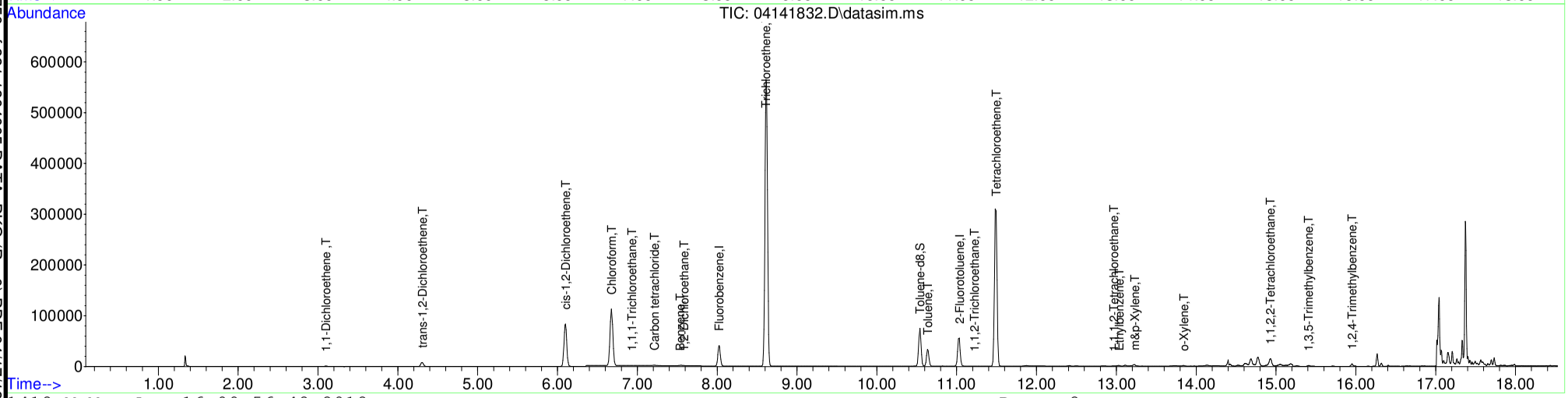
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141832.D
Acq On : 14 Apr 2018 23:08
InstName : AG5975C
Operator : RH
Sample : 1804005-04
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 16 09:40:34 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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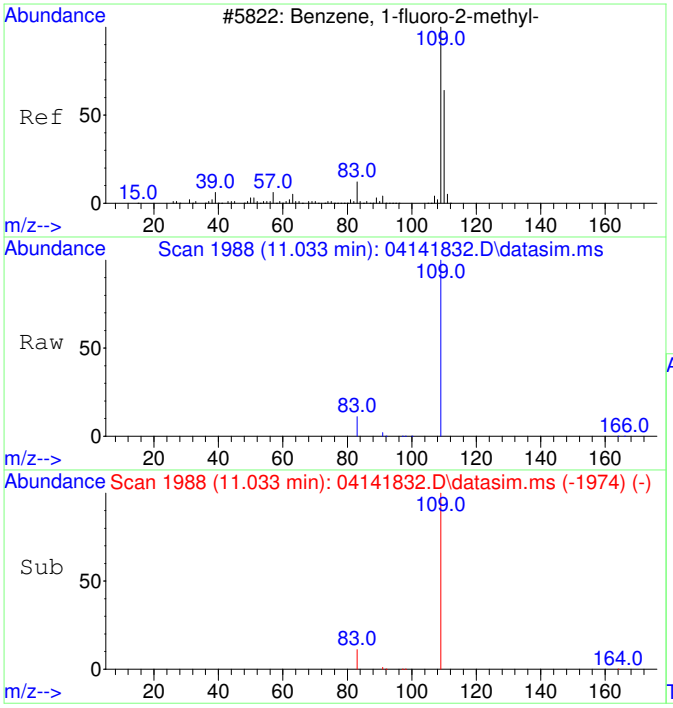
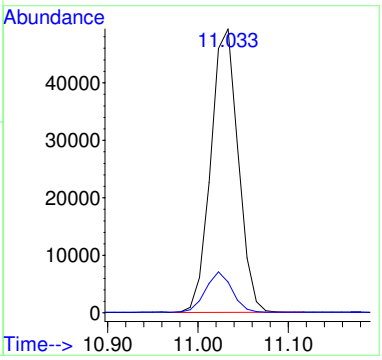
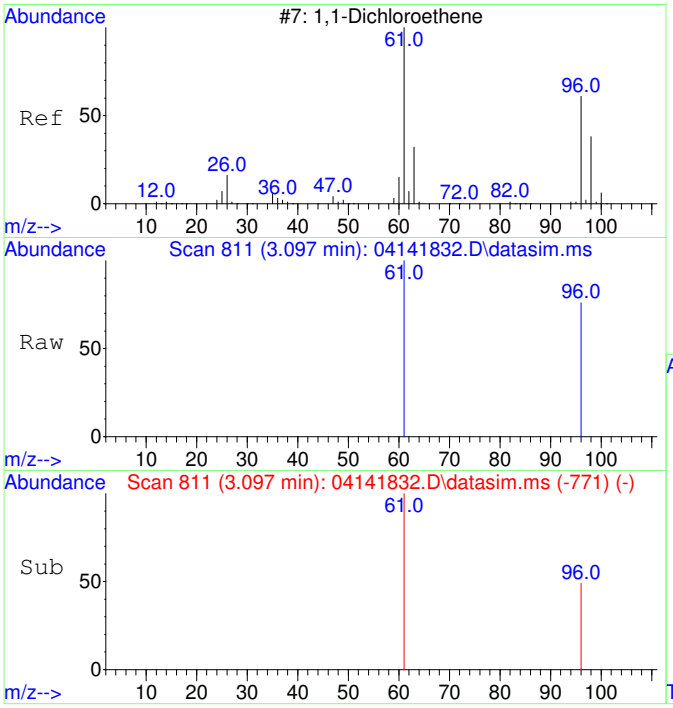


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:109 Resp: 104243

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

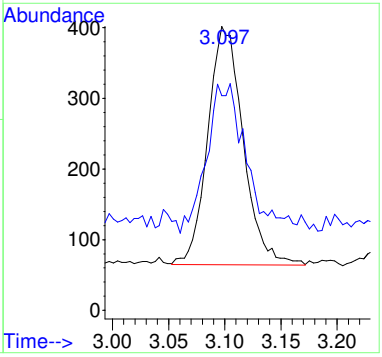


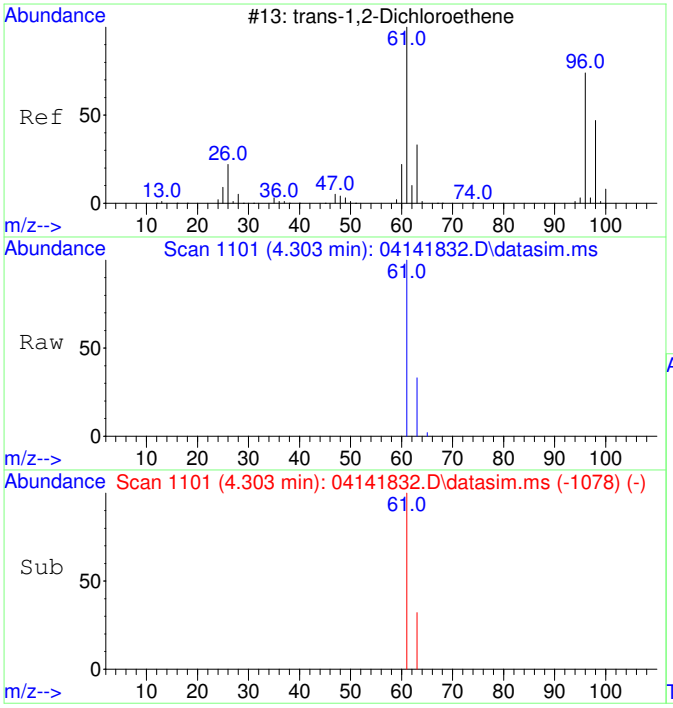


#2
1,1-Dichloroethene
Concen: 161.28 ug/L m
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 738

Ion	Ratio	Lower	Upper
61	100		
96	8.7	26.1	86.1#

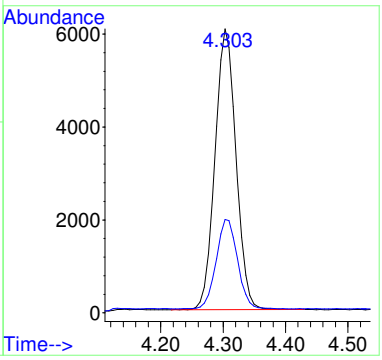


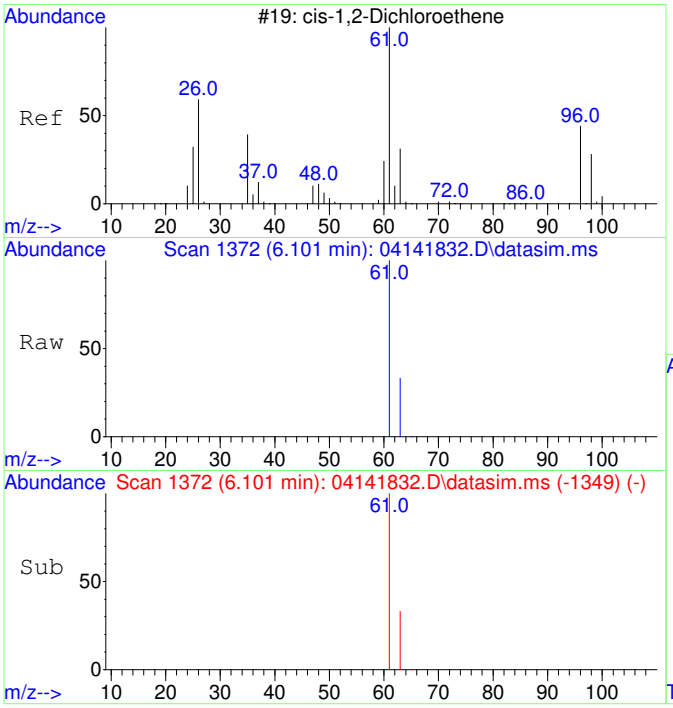


#3
trans-1,2-Dichloroethene
Concen: 3011.63 ug/L
RT: 4.303 min Scan# 1101
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 14081

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.0	62.0

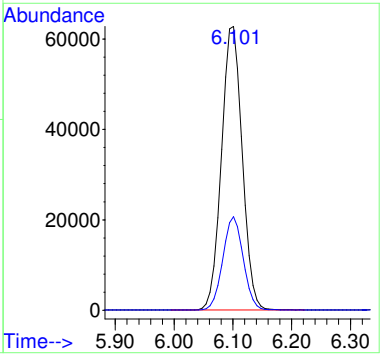


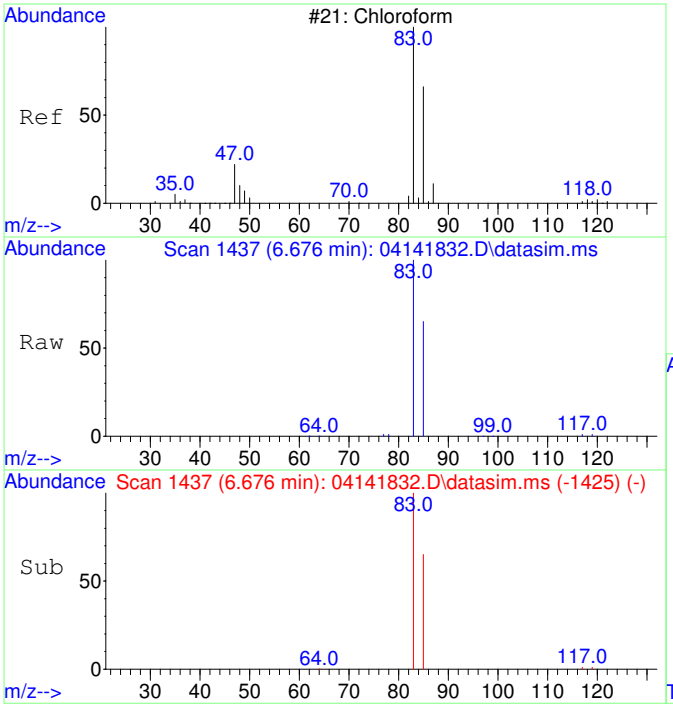


#5
cis-1,2-Dichloroethene
Concen: 26542.29 ug/L
RT: 6.101 min Scan# 1372
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 152868

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.0	62.0

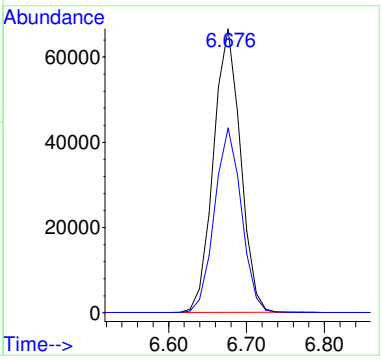


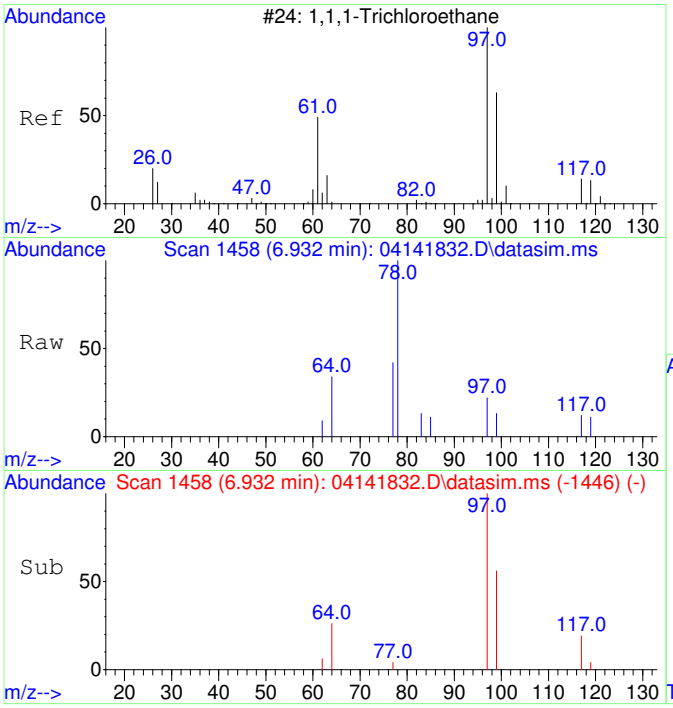


#6
Chloroform
Concen: 23768.20 ug/L
RT: 6.676 min Scan# 1437
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 83 Resp: 160993

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.2	94.2

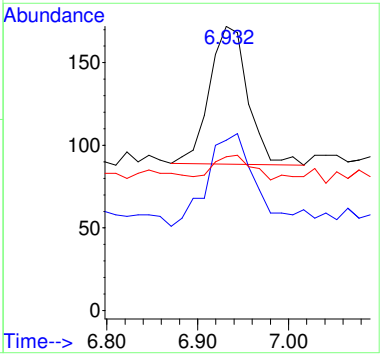


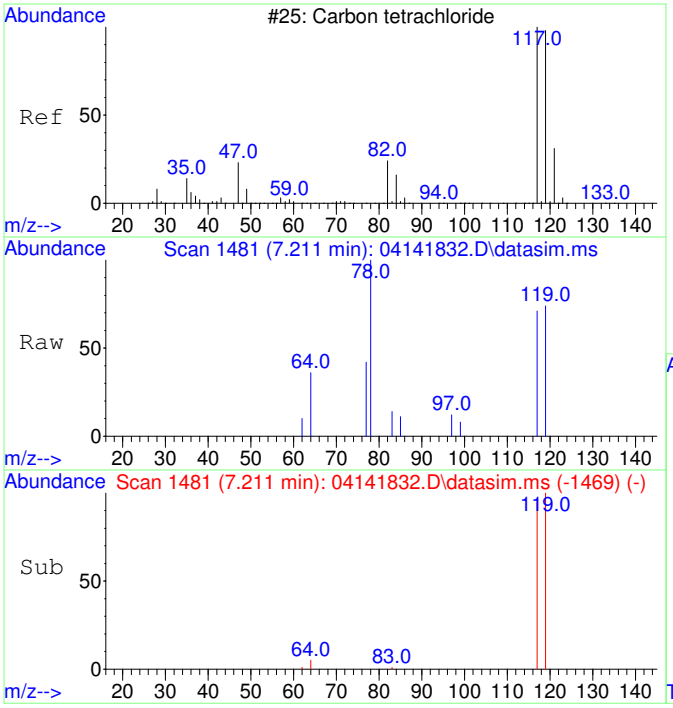


#7
1,1,1-Trichloroethane
Concen: 37.04 ug/L
RT: 6.932 min Scan# 1458
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 97 Resp: 245

Ion	Ratio	Lower	Upper
97	100		
99	82.4	34.5	94.5
117	13.5	0.0	42.6

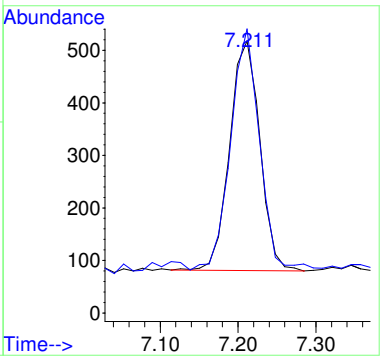


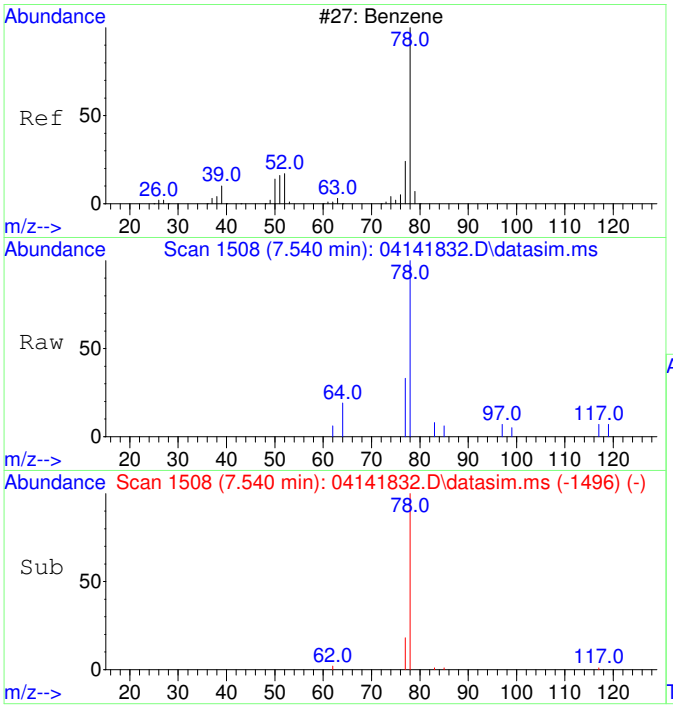


#8
Carbon tetrachloride
Concen: 195.39 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:117 Resp: 1179

Ion	Ratio	Lower	Upper
117	100		
119	99.0	64.5	124.5

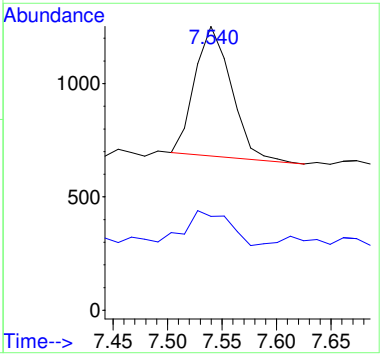


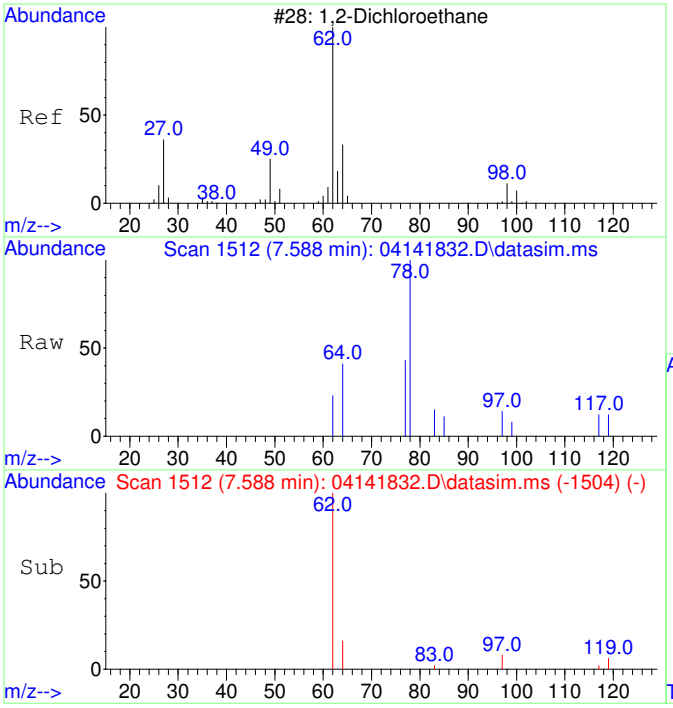


#9
Benzene
Concen: 78.51 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 78 Resp: 1311

Ion	Ratio	Lower	Upper
78	100		
77	32.0	0.0	53.6

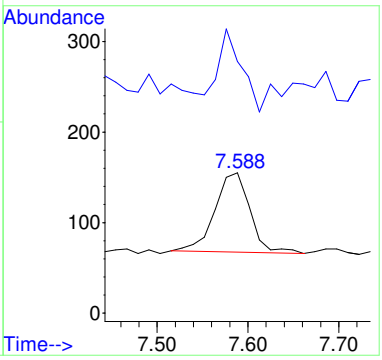


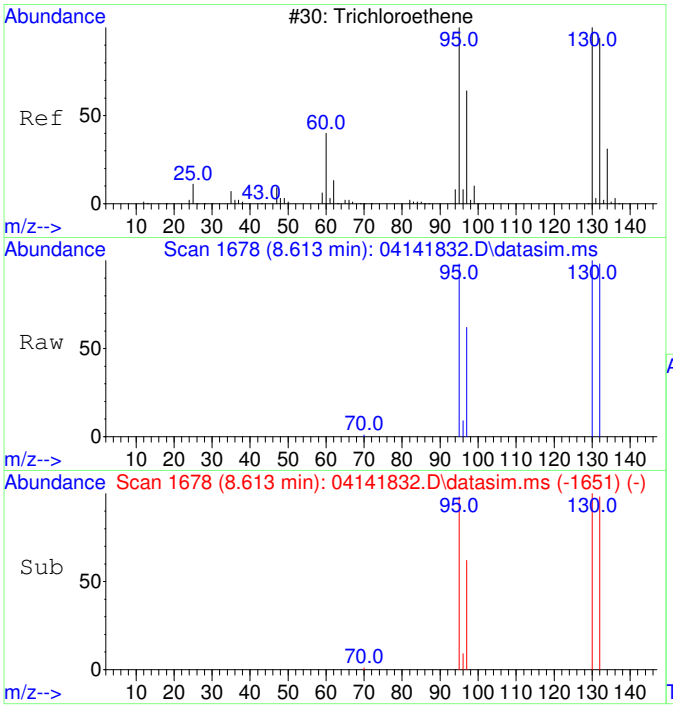


#10
1,2-Dichloroethane
Concen: 40.19 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 62 Resp: 234

Ion	Ratio	Lower	Upper
62	100		
64	69.7	1.8	61.8#

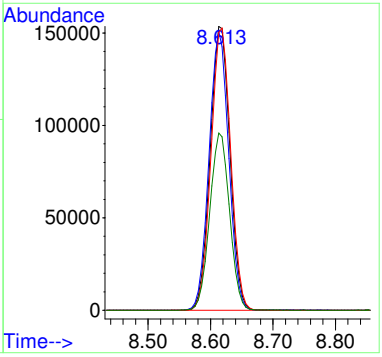


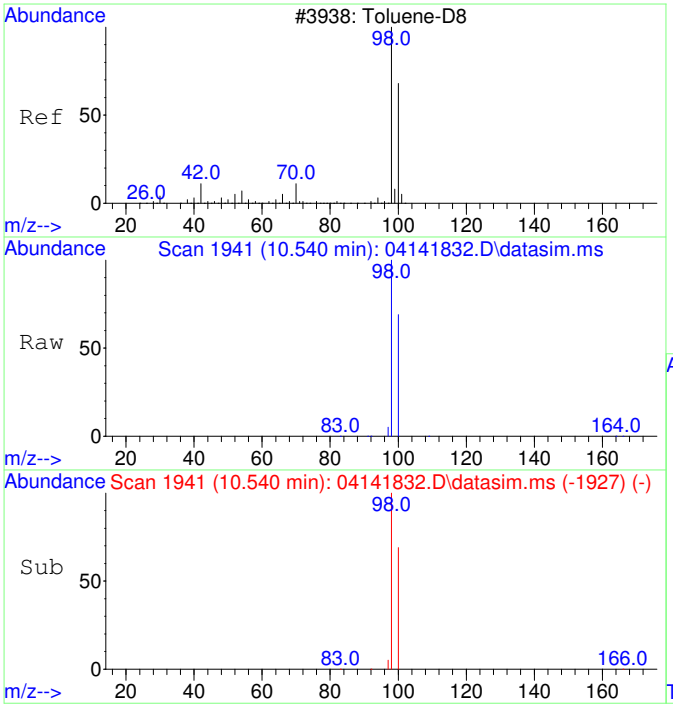


#11
Trichloroethene
Concen: 73454.15 ug/L
RT: 8.613 min Scan# 1678
Delta R.T. -0.005 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:130 Resp: 337950

Ion	Ratio	Lower	Upper
130	100		
95	97.4	68.8	128.8
132	99.0	78.6	118.6
97	62.3	43.7	83.7

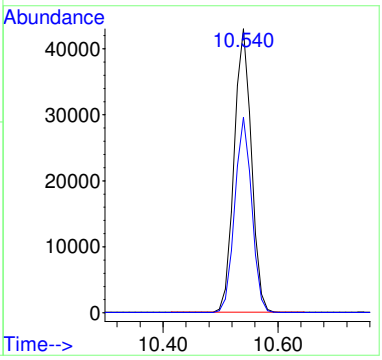


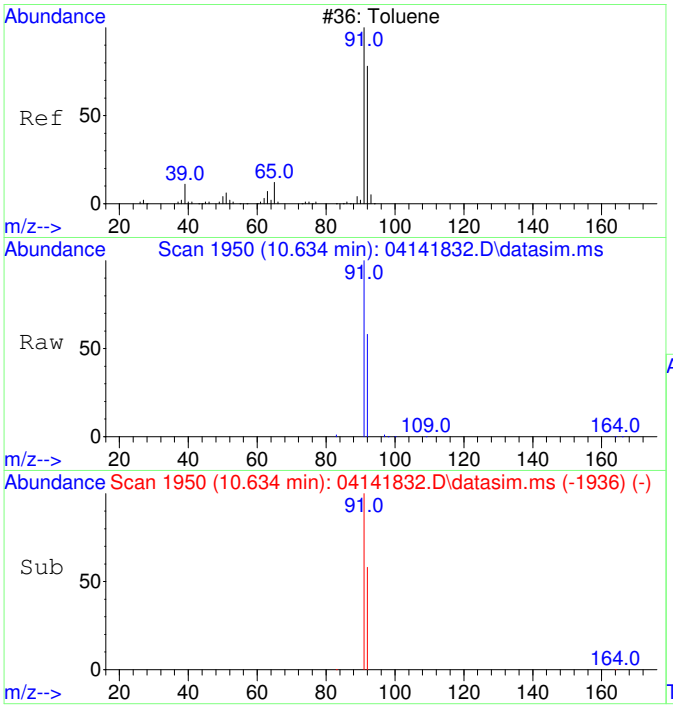


#12
Toluene-d8
Concen: 5113.19 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 98 Resp: 89465

Ion	Ratio	Lower	Upper
98	100		
100	67.6	36.9	96.9

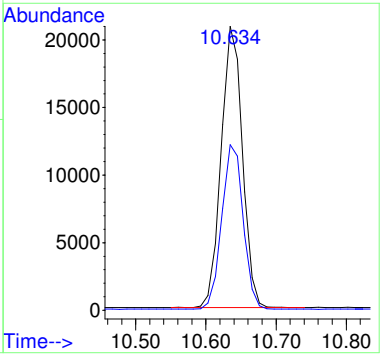


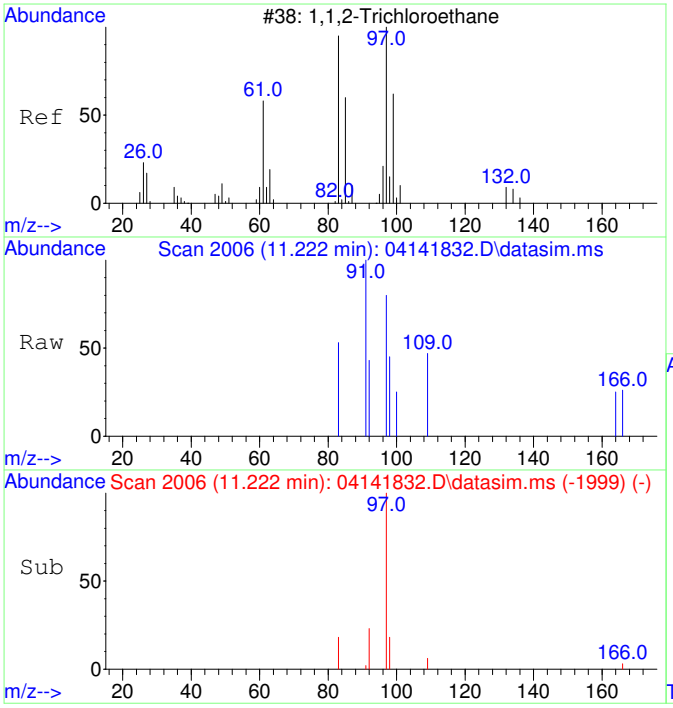


#13
Toluene
Concen: 1994.08 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 43914

Ion	Ratio	Lower	Upper
91	100		
92	58.9	28.8	88.8

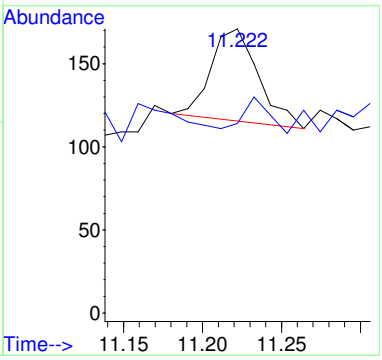


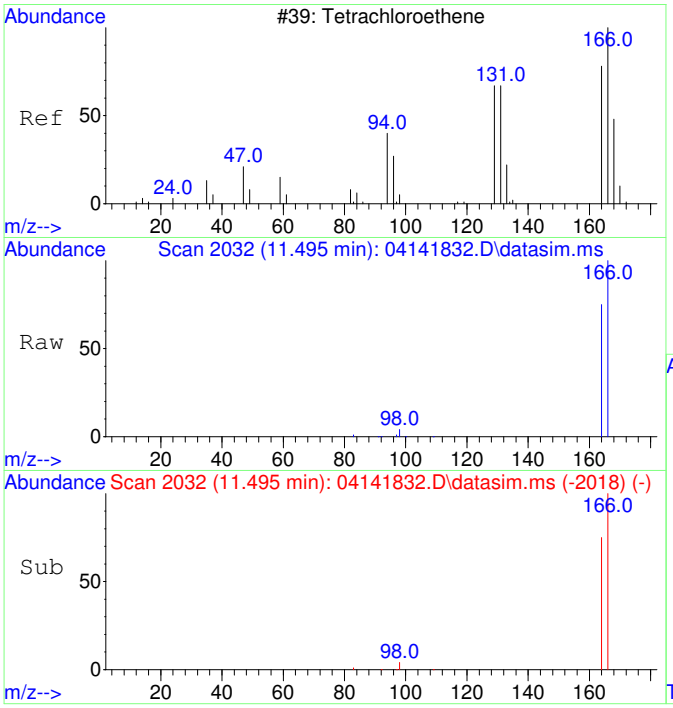


#14
1,1,2-Trichloroethane
Concen: 23.22 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.073 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 97 Resp: 113

Ion	Ratio	Lower	Upper
97	100		
83	22.1	54.3	114.3#

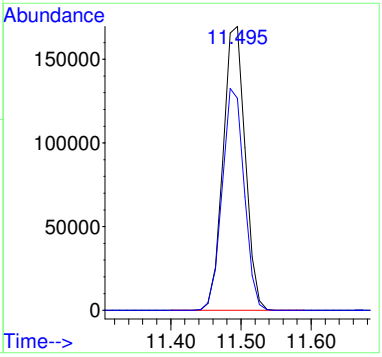


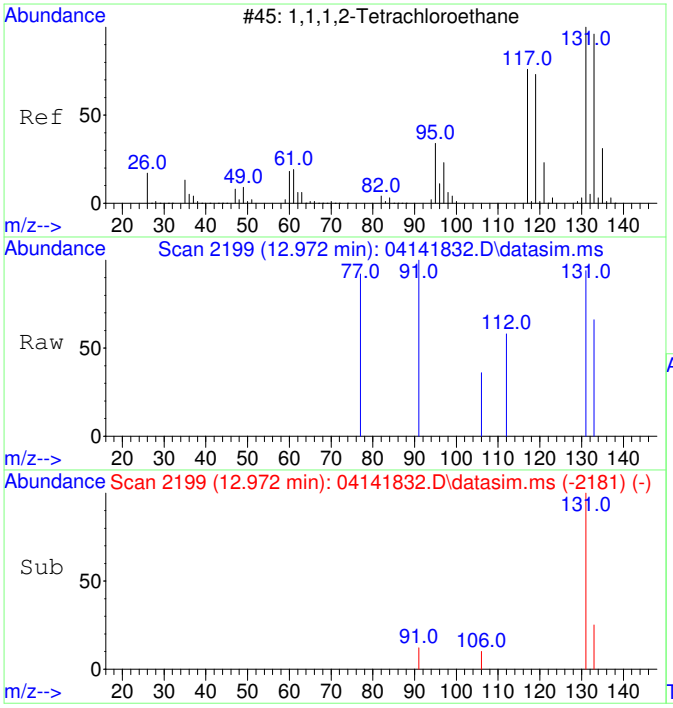


#15
Tetrachloroethene
Concen: 61526.13 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:166 Resp: 371377

Ion	Ratio	Lower	Upper
166	100		
164	77.6	48.0	108.0

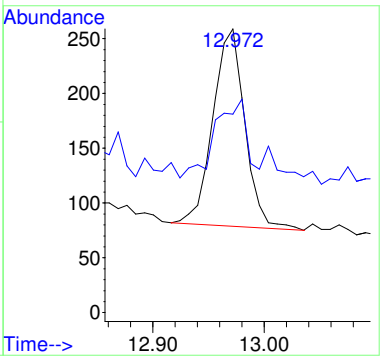


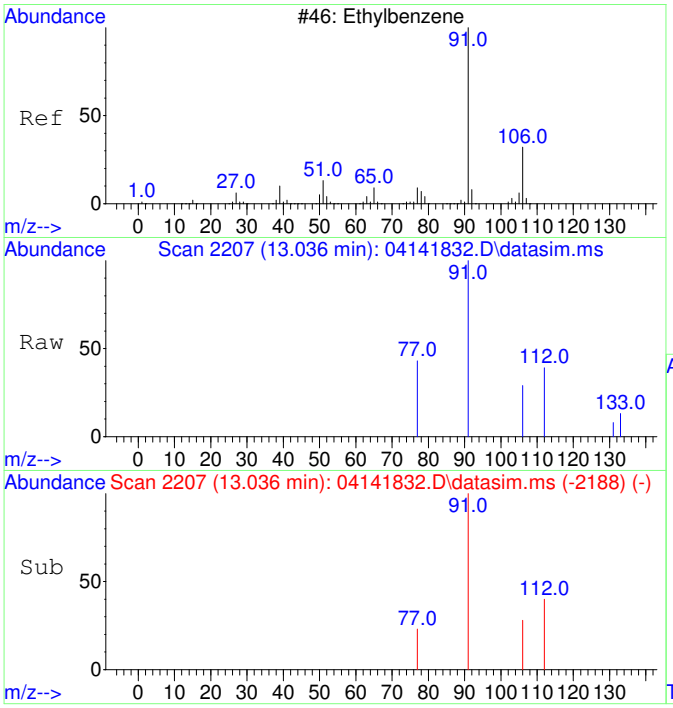


#17
1,1,1,2-Tetrachloroethane
Concen: 69.30 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.008 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:131 Resp: 358

Ion	Ratio	Lower	Upper
131	100		
133	38.8	65.1	125.1#

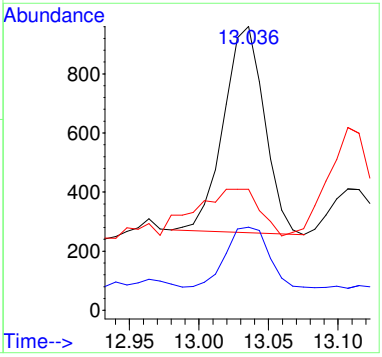


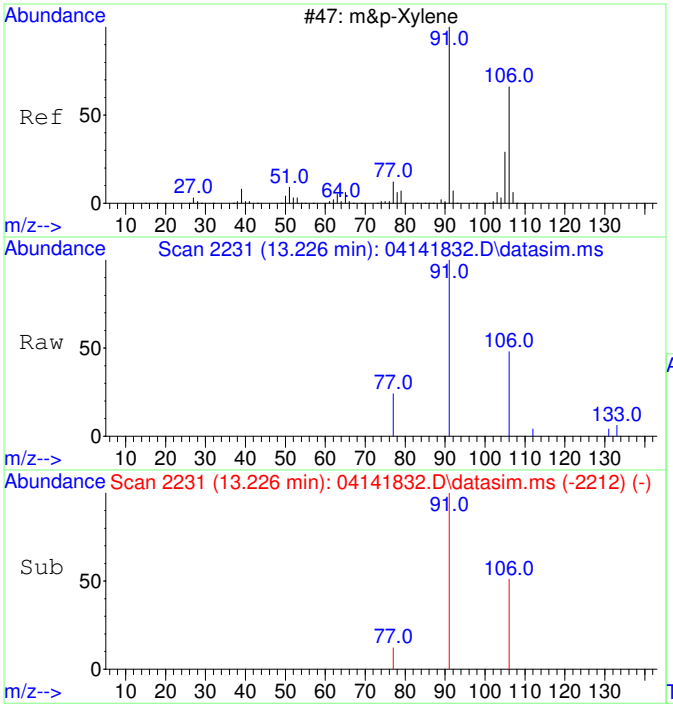


#18
Ethylbenzene
Concen: 56.64 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 1416

Ion	Ratio	Lower	Upper
91	100		
106	30.7	1.8	61.8
77	43.3	0.0	38.7#

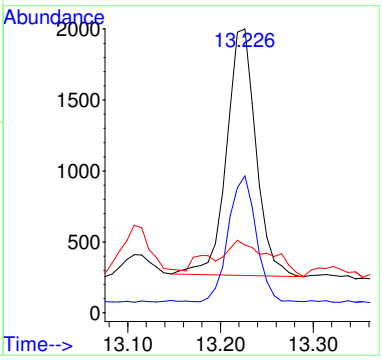


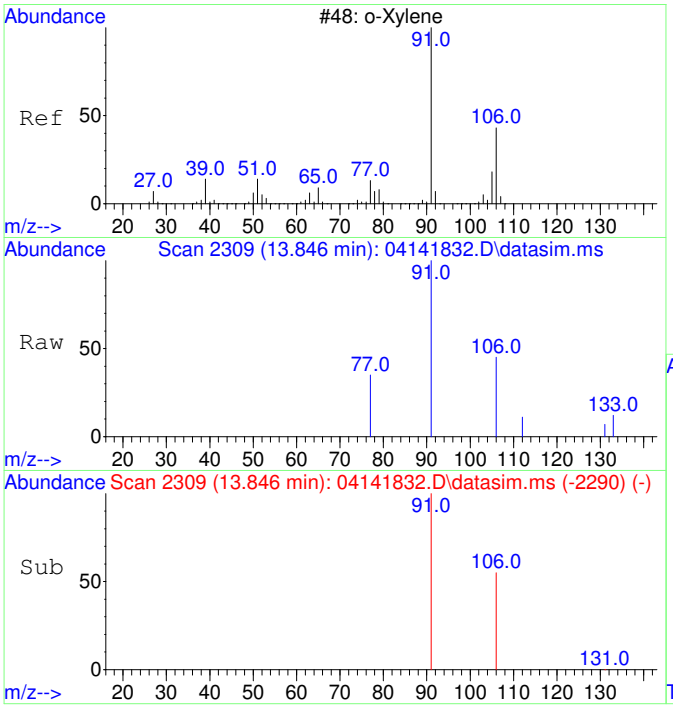


#19
m&p-Xylene
Concen: 194.87 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 3812

Ion	Ratio	Lower	Upper
91	100		
106	48.4	20.0	80.0
77	21.5	0.0	43.4

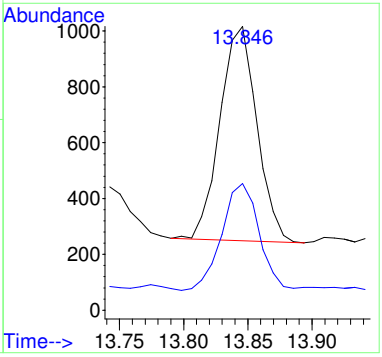


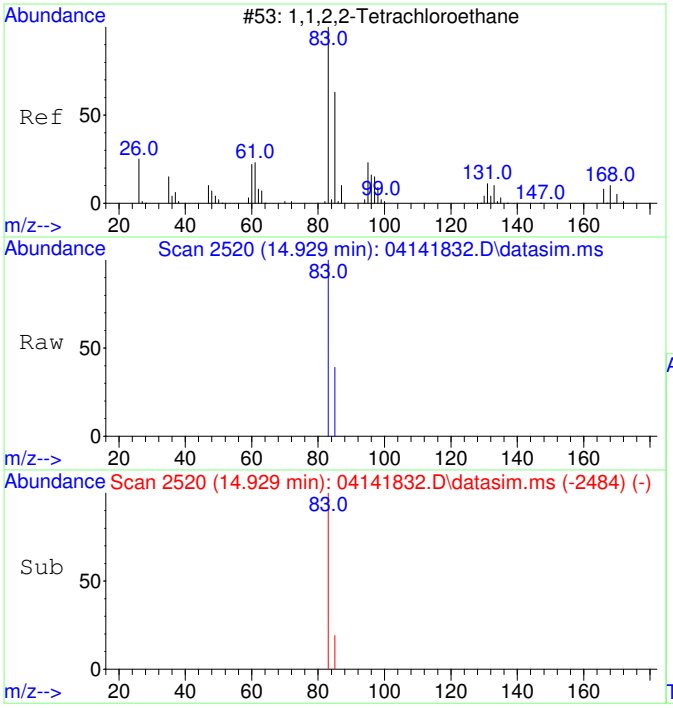


#20
o-Xylene
Concen: 74.18 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 1529

Ion	Ratio	Lower	Upper
91	100		
106	50.3	16.9	76.9

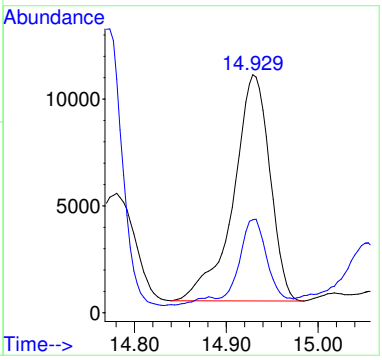


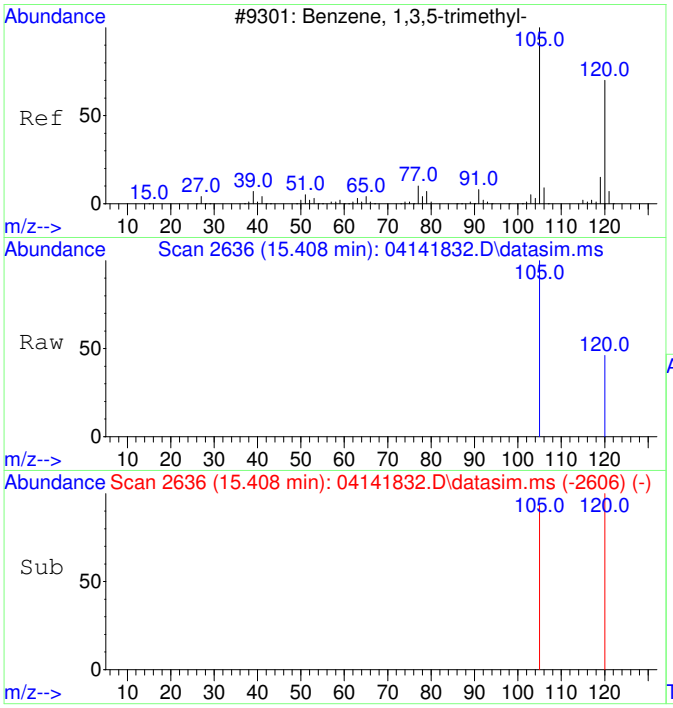


#21
1,1,2,2-Tetrachloroethane
Concen: 3059.49 ug/L
RT: 14.929 min Scan# 2520
Delta R.T. -0.015 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 83 Resp: 29271

Ion	Ratio	Lower	Upper
83	100		
85	24.3	34.3	94.3#

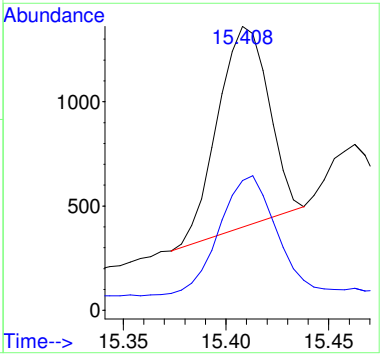


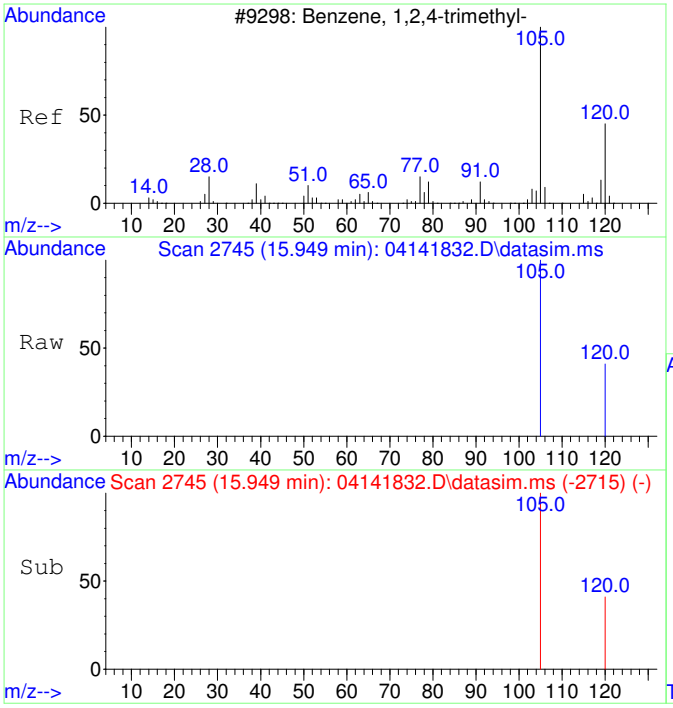


#22
1,3,5-Trimethylbenzene
Concen: 71.00 ug/L
RT: 15.408 min Scan# 2636
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:105 Resp: 1713

Ion	Ratio	Lower	Upper
105	100		
120	68.1	18.1	78.1

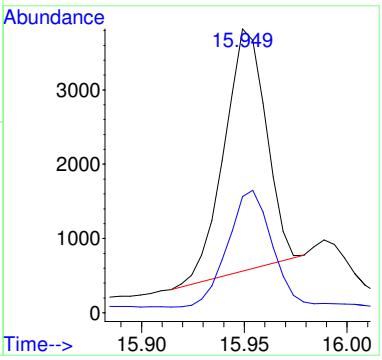


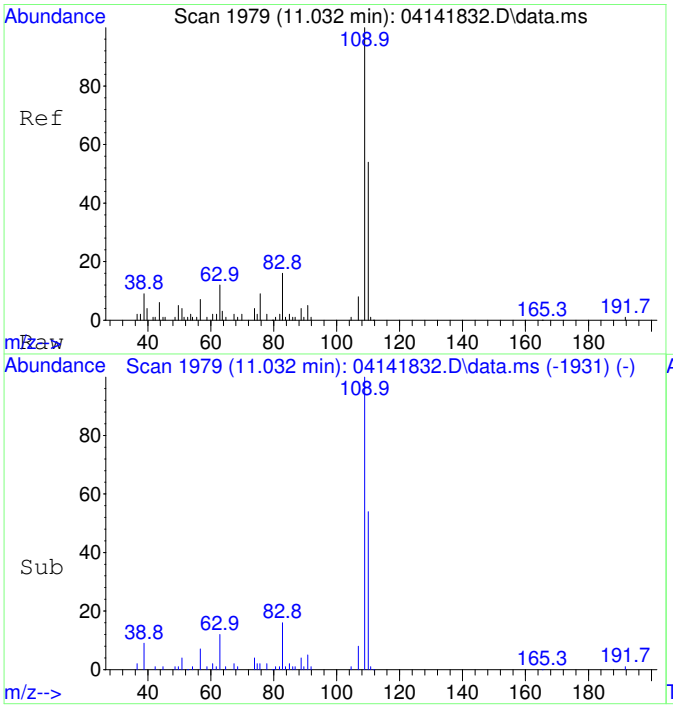


#23
1,2,4-Trimethylbenzene
Concen: 190.86 ug/L
RT: 15.949 min Scan# 2745
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:105 Resp: 4684

Ion	Ratio	Lower	Upper
105	100		
120	51.3	14.5	74.5

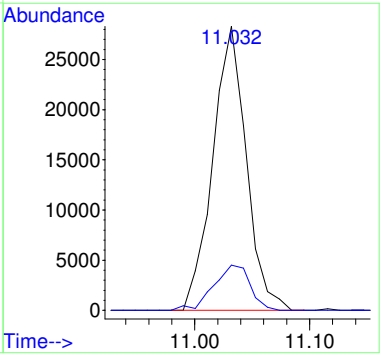


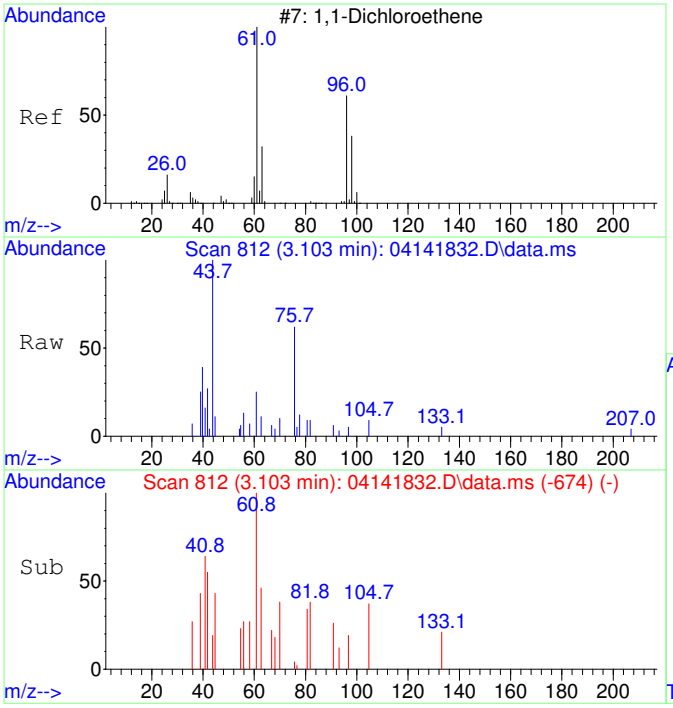


#25
2-Fluorotoluene SCAN
Concen: 5706.57 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:109 Resp: 57480

Ion	Ratio	Lower	Upper
109	100		
83	17.3	0.0	49.2

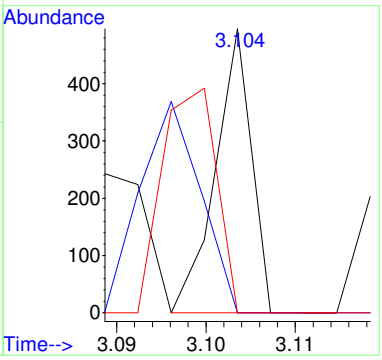


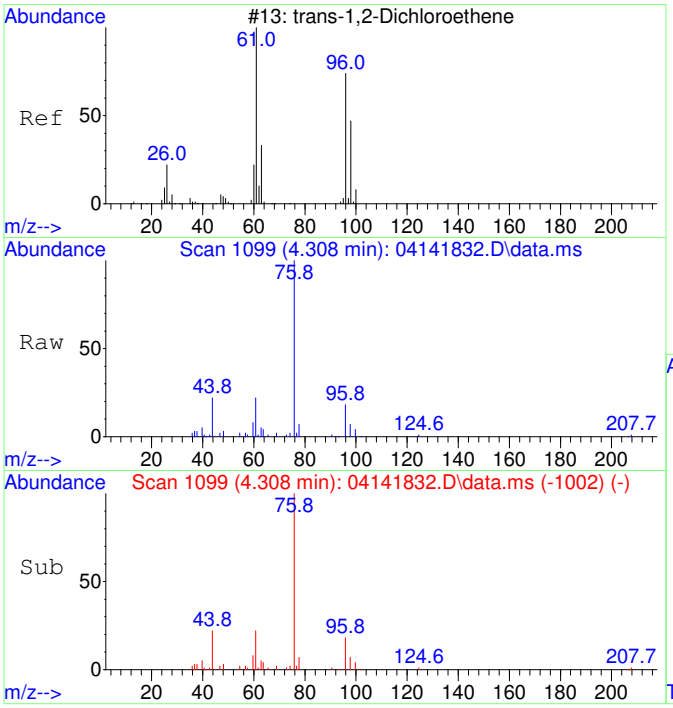


#26
1,1-Dichloroethene SCAN
Concen: 62.26 ug/L
RT: 3.103 min Scan# 812
Delta R.T. 0.011 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 139

Ion	Ratio	Lower	Upper
61	100		
96	123.7	21.6	81.6#
98	119.4	7.5	67.5#

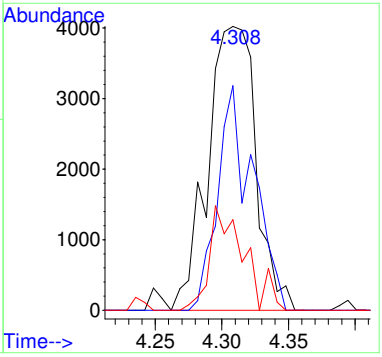


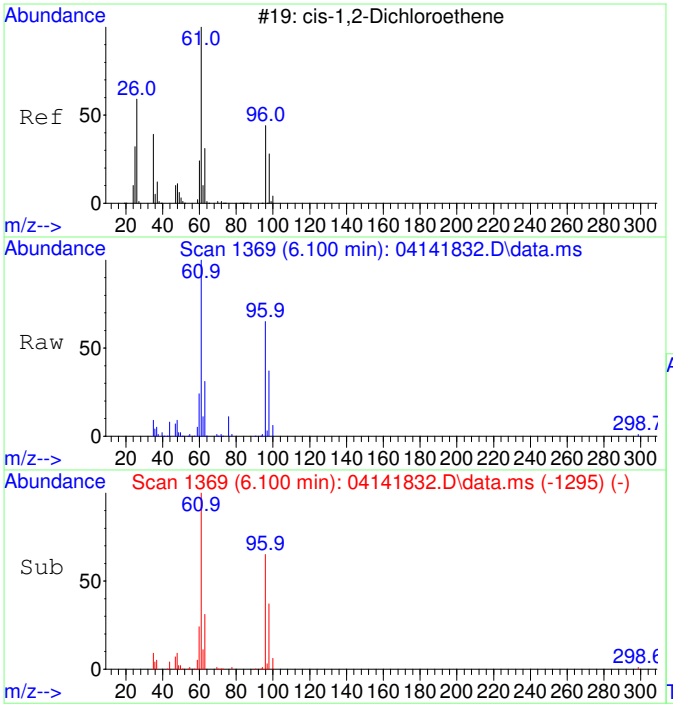


#27
trans-1,2-Dichloroethene SCAN
Concen: 4648.56 ug/L
RT: 4.308 min Scan# 1099
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 10168

Ion	Ratio	Lower	Upper
61	100		
96	58.1	51.8	111.8
98	26.5	22.7	82.7

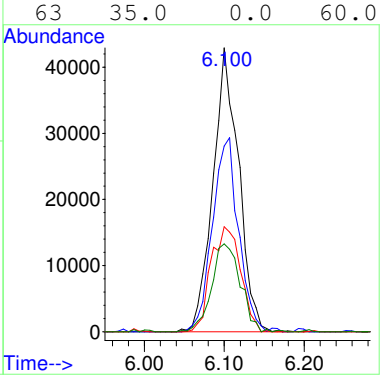


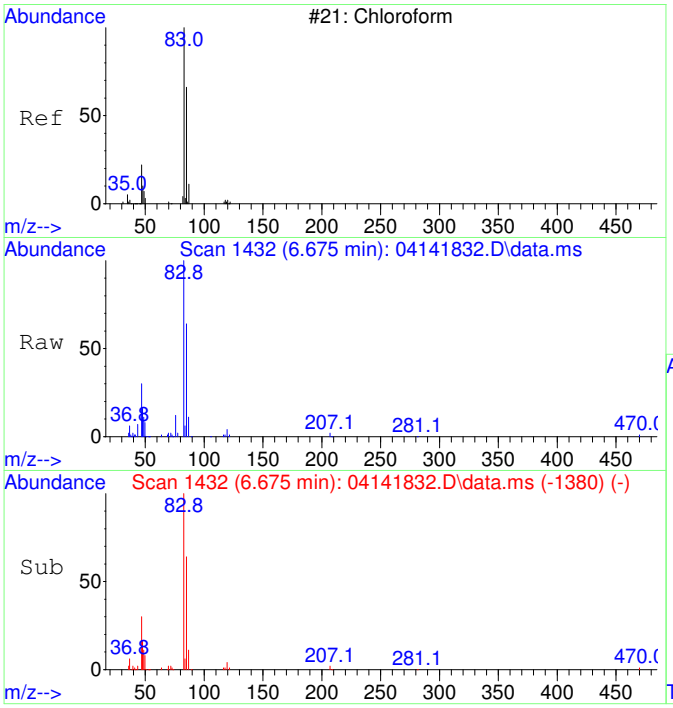


#29
cis-1,2-Dichloroethene SCAN
Concen: 36445.45 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. -0.007 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 61 Resp: 95750

Ion	Ratio	Lower	Upper
61	100		
96	69.8	49.4	109.4
98	42.7	9.5	69.5
63	35.0	0.0	60.0

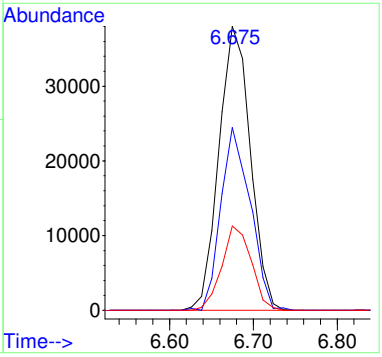


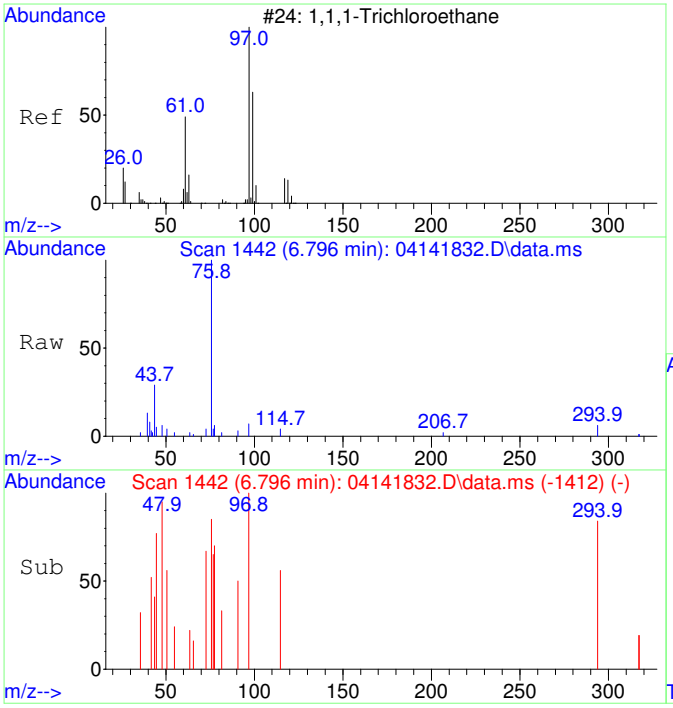


#30
Chloroform SCAN
Concen: 31218.39 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 83 Resp: 98958

Ion	Ratio	Lower	Upper
83	100		
85	60.2	47.8	107.8
47	27.8	8.2	68.2

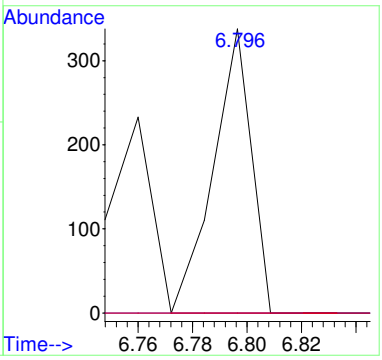


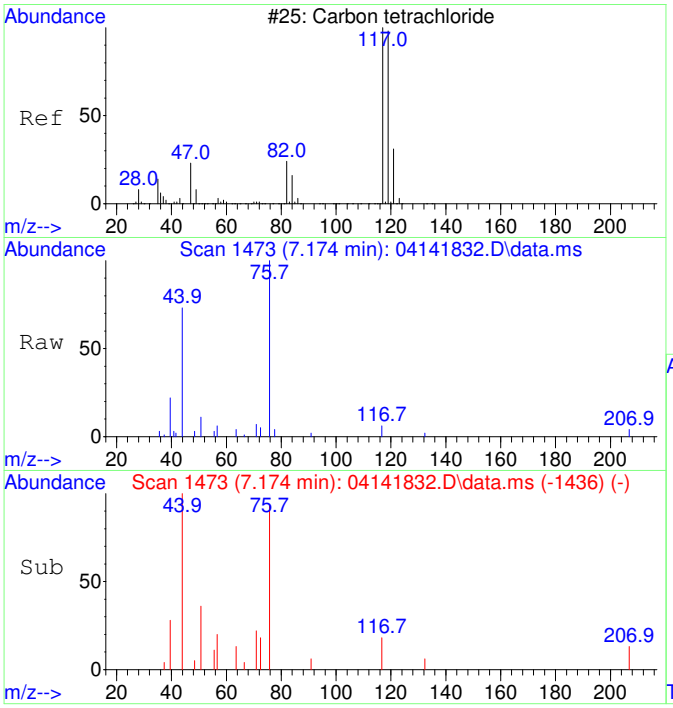


#31
1,1,1-Trichloroethane SCAN
Concen: 82.21 ug/L
RT: 6.796 min Scan# 1442
Delta R.T. -0.134 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 97 Resp: 327

Ion	Ratio	Lower	Upper
97	100		
99	0.0	18.3	78.3#
61	0.0	16.3	76.3#

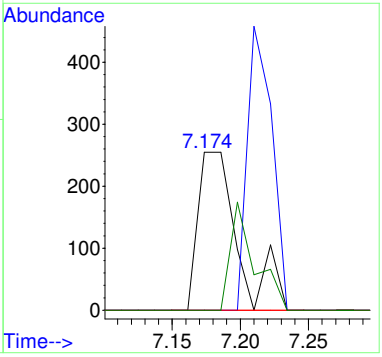


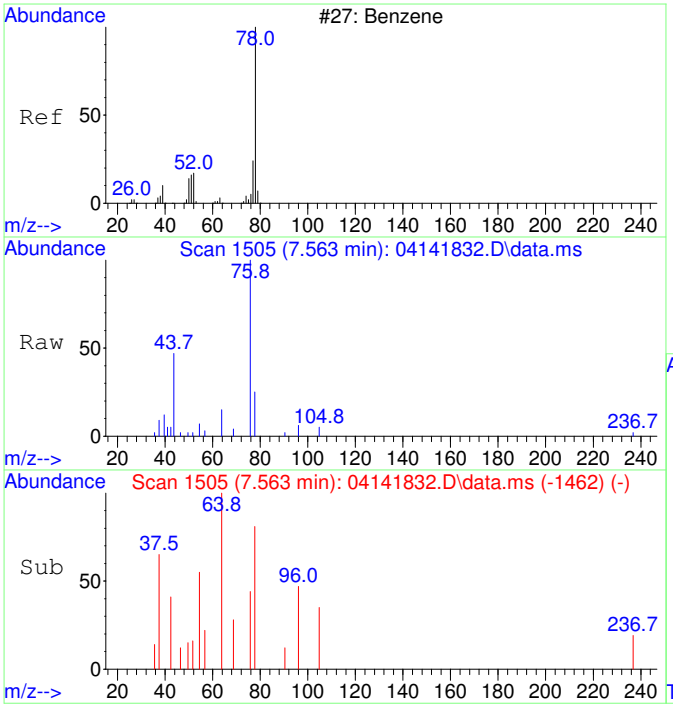


#32
Carbon tetrachloride SCAN
Concen: 181.75 ug/L
RT: 7.174 min Scan# 1473
Delta R.T. -0.049 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:117 Resp: 520

Ion	Ratio	Lower	Upper
117	100		
119	0.0	54.4	114.4#
121	0.0	0.0	53.0
82	0.0	7.9	67.9#

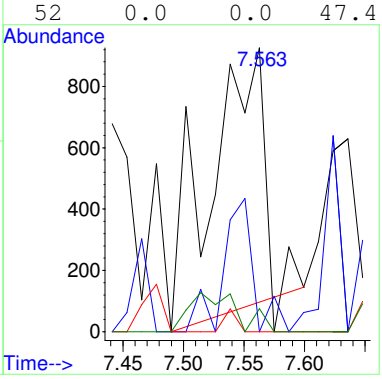


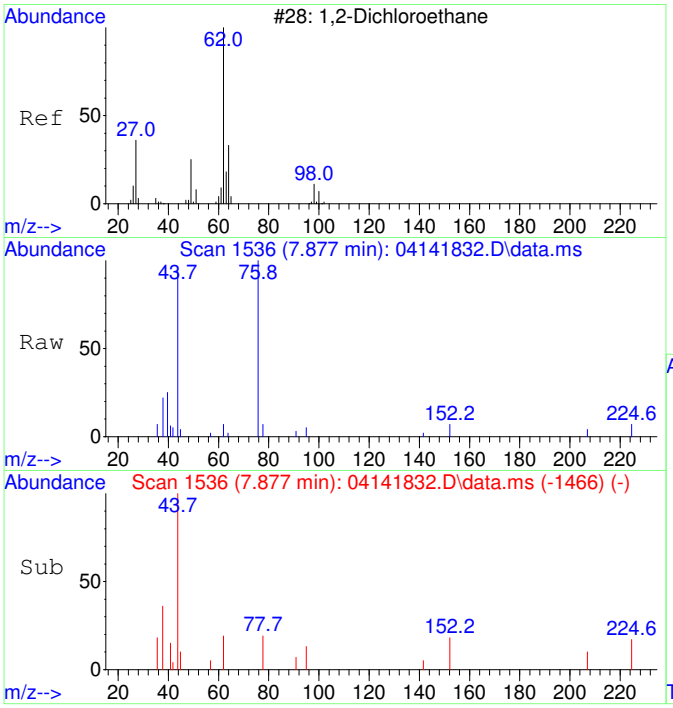


#33
Benzene SCAN
Concen: 312.02 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.024 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 78 Resp: 2706

Ion	Ratio	Lower	Upper
78	100		
77	28.4	5.4	65.4
51	0.0	0.0	47.2
52	0.0	0.0	47.4

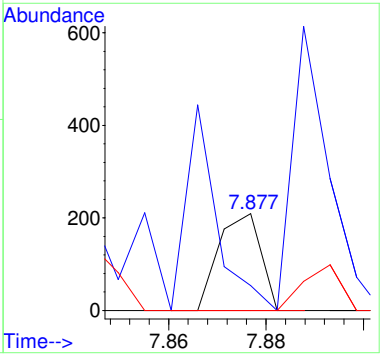


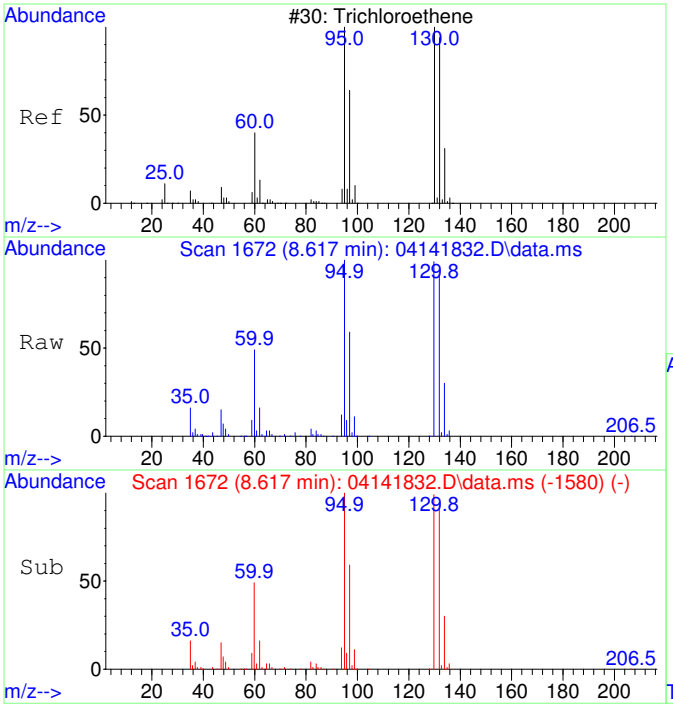


#34
1,2-Dichloroethane SCAN
Concen: 38.32 ug/L
RT: 7.877 min Scan# 1536
Delta R.T. 0.290 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 62 Resp: 126

Ion	Ratio	Lower	Upper
62	100		
64	156.3	4.4	64.4#
49	0.0	1.2	61.2#

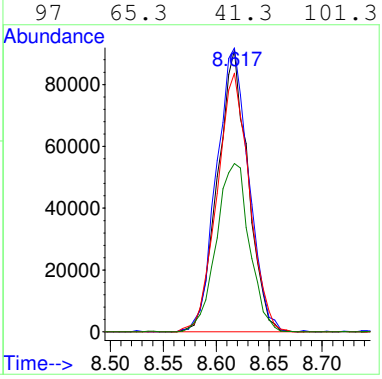


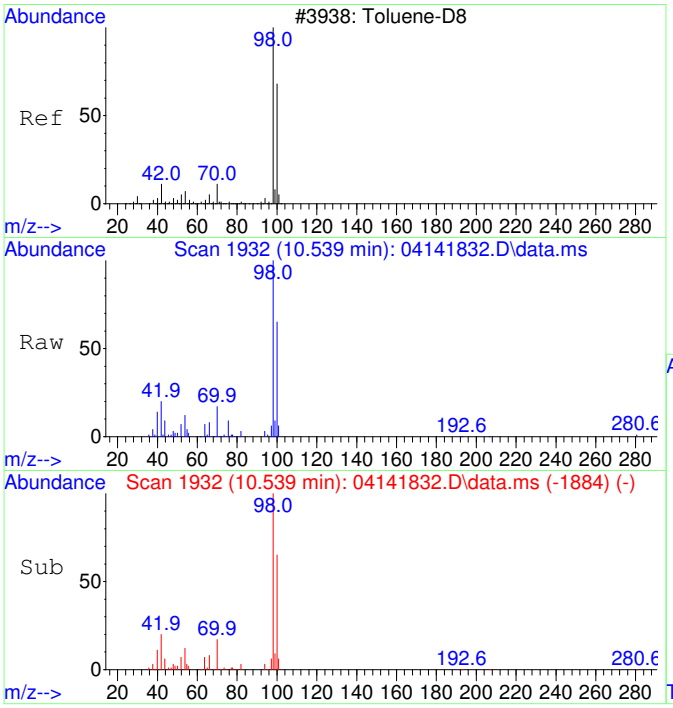


#35
Trichloroethene SCAN
Concen: 83229.28 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:130 Resp: 181354

Ion	Ratio	Lower	Upper
130	100		
95	107.2	71.3	131.3
132	97.9	75.1	135.1
97	65.3	41.3	101.3

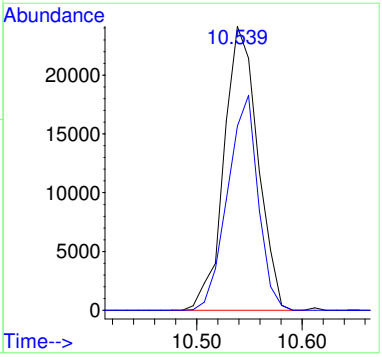


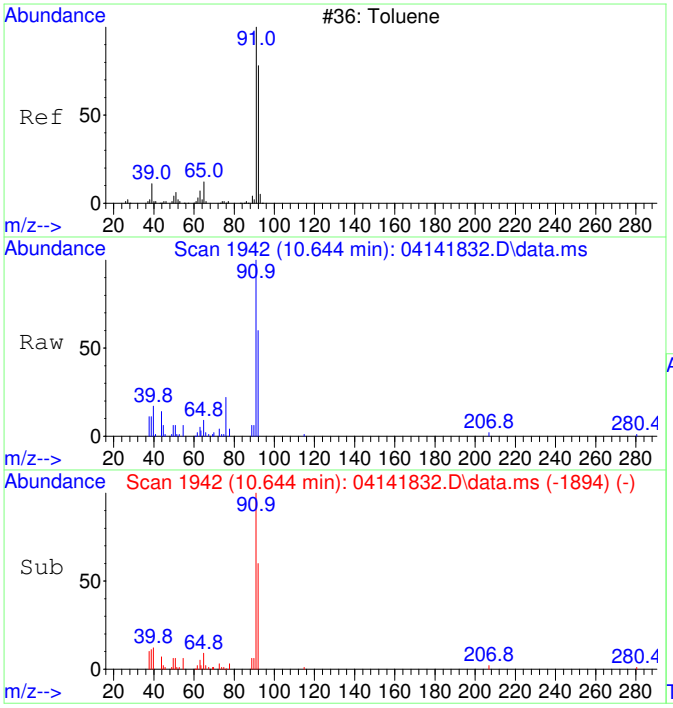


#36
Toluene-d8 SCAN
Concen: 6099.99 ug/L
RT: 10.539 min Scan# 1932
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 98 Resp: 53947

Ion	Ratio	Lower	Upper
98	100		
100	68.4	37.3	97.3

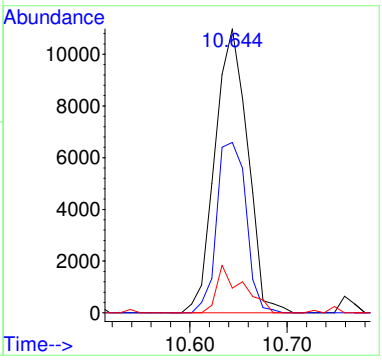


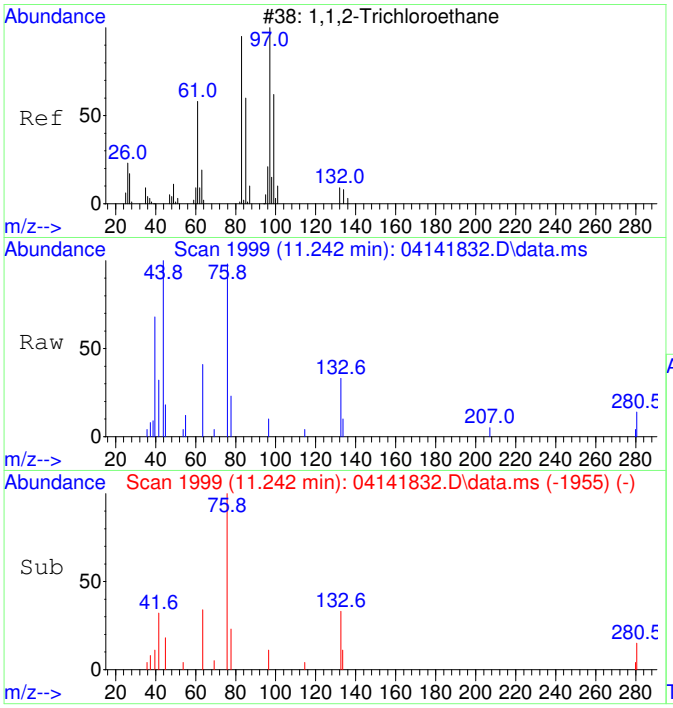


#37
Toluene SCAN
Concen: 2583.71 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 25555

Ion	Ratio	Lower	Upper
91	100		
92	54.0	39.1	99.1
65	13.4	0.0	43.8

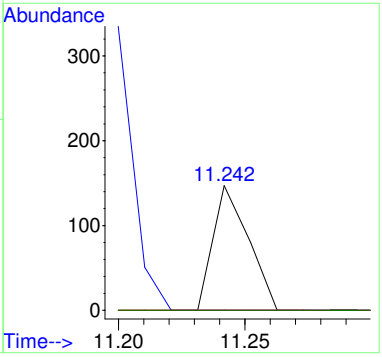


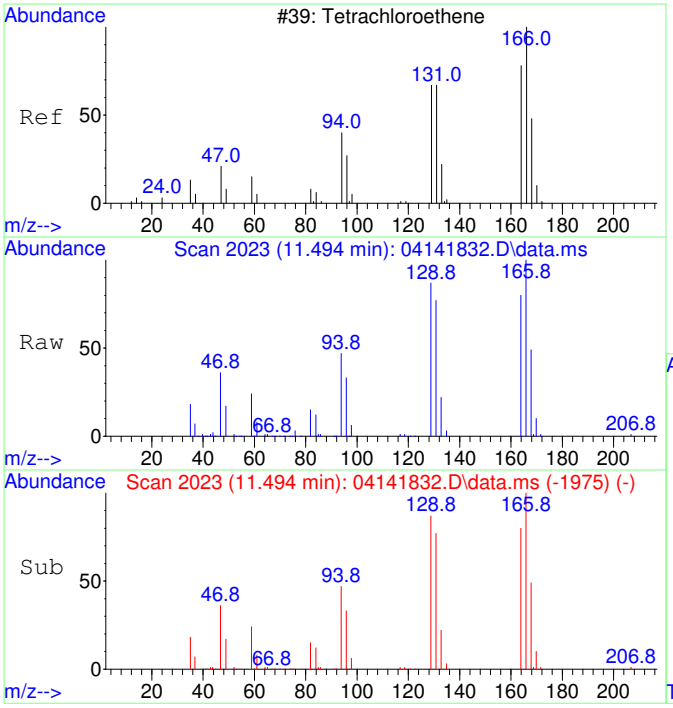


#38
1,1,2-Trichloroethane SCAN
Concen: 47.21 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. -0.042 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 97 Resp: 143

Ion	Ratio	Lower	Upper
97	100		
83	0.0	47.4	107.4#
61	0.0	29.7	89.7#
99	0.0	26.5	86.5#

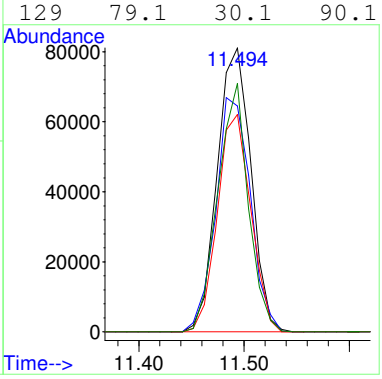


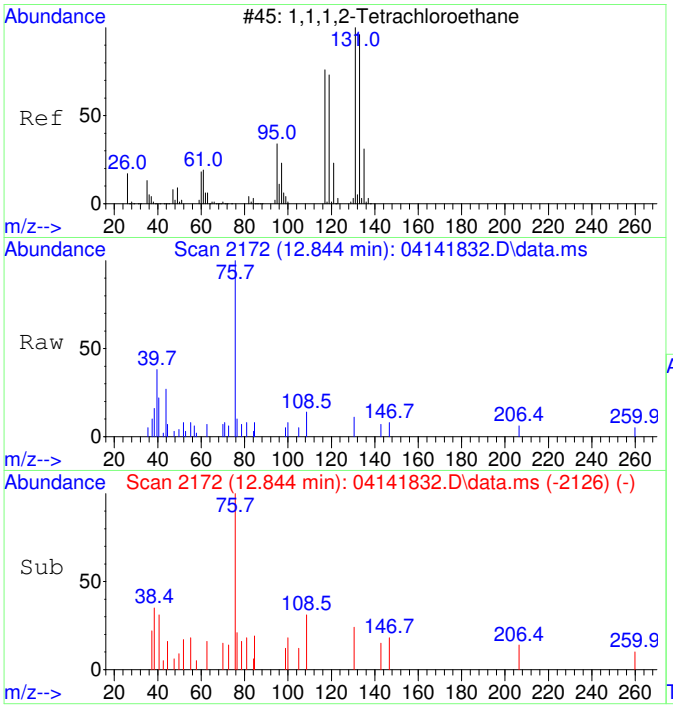


#39
Tetrachloroethene SCAN
Concen: 56097.05 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:166 Resp: 180944

Ion	Ratio	Lower	Upper
166	100		
164	84.7	49.8	109.8
131	75.8	42.0	102.0
129	79.1	30.1	90.1

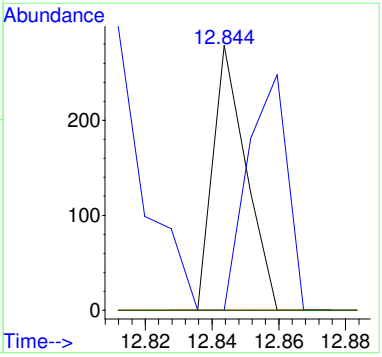


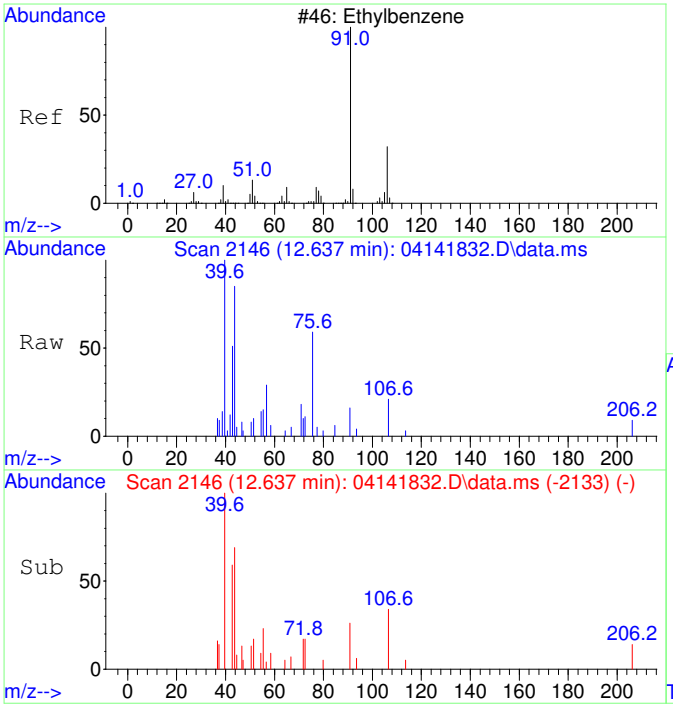


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 75.98 ug/L
RT: 12.844 min Scan# 2172
Delta R.T. -0.135 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:131 Resp: 192

Ion	Ratio	Lower	Upper
131	100		
133	106.3	78.7	138.7
119	0.0	43.0	103.0#
117	0.0	40.3	100.3#

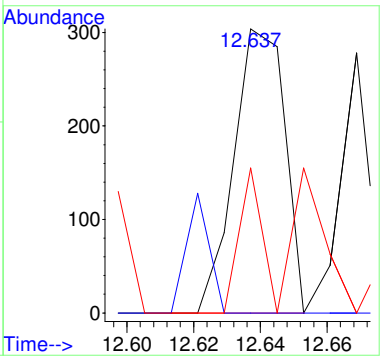


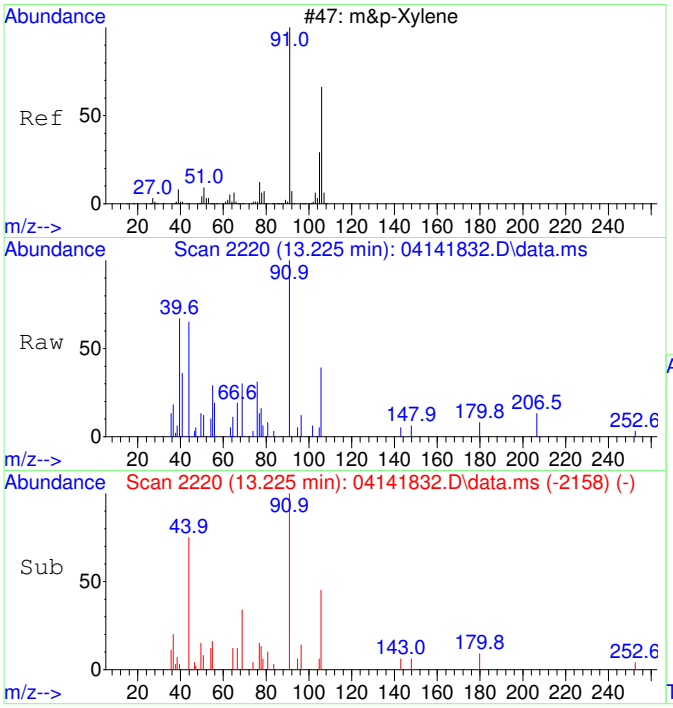


#42
Ethylbenzene SCAN
Concen: 24.84 ug/L
RT: 12.637 min Scan# 2146
Delta R.T. -0.397 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 322

Ion	Ratio	Lower	Upper
91	100		
106	18.9	1.8	61.8
51	23.0	0.0	45.4

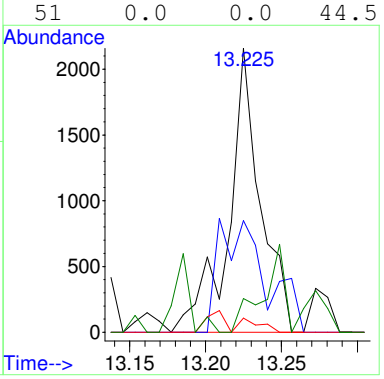


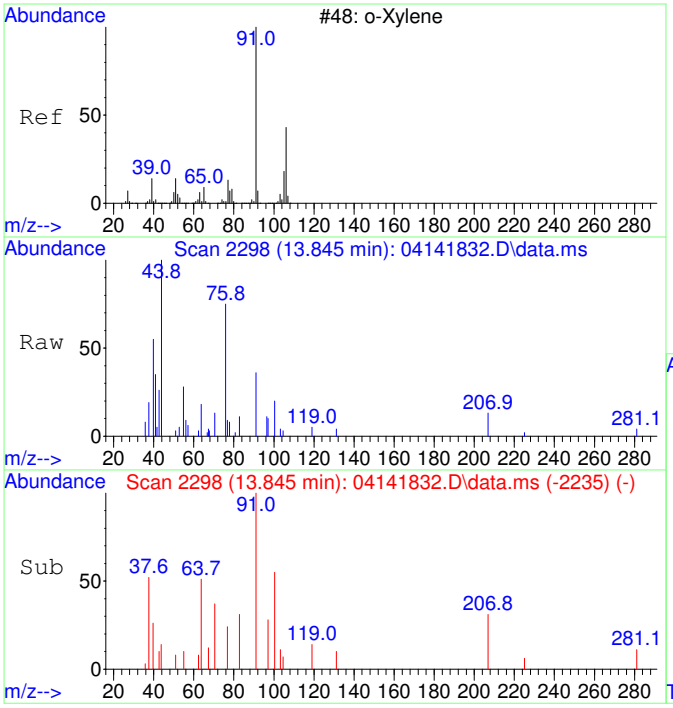


#43
m&p-Xylene SCAN
Concen: 148.63 ug/L
RT: 13.225 min Scan# 2220
Delta R.T. -0.008 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 3136

Ion	Ratio	Lower	Upper
91	100		
106	59.1	14.6	74.6
105	4.2	0.0	52.8
51	0.0	0.0	44.5

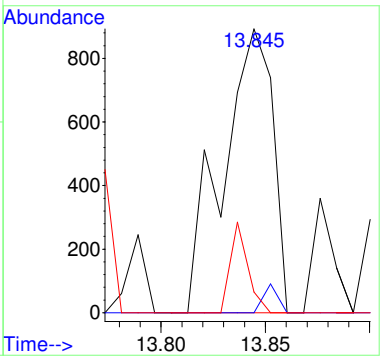


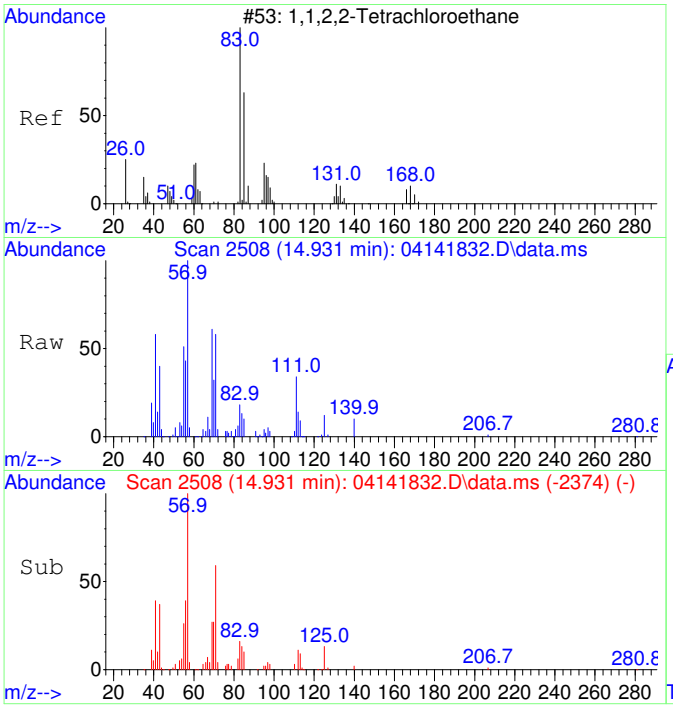


#44
o-Xylene SCAN
Concen: 130.94 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 91 Resp: 1496

Ion	Ratio	Lower	Upper
91	100		
106	0.0	20.2	80.2#
105	11.2	0.0	54.9

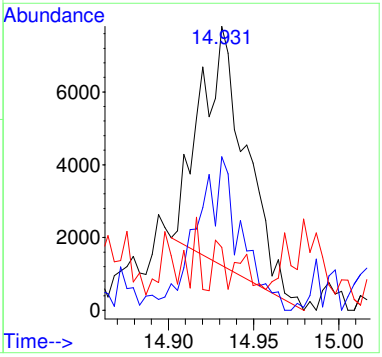


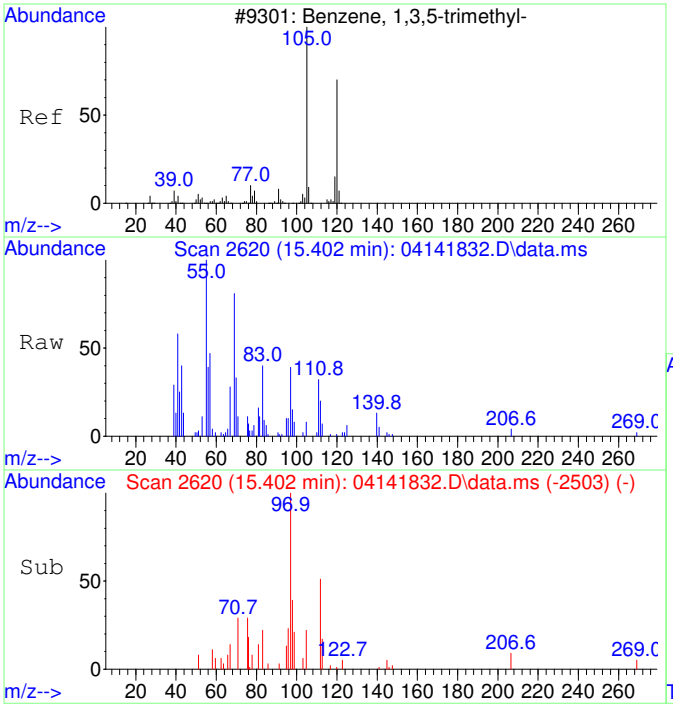


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 2021.57 ug/L
RT: 14.931 min Scan# 2508
Delta R.T. -0.004 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 83 Resp: 12089

Ion	Ratio	Lower	Upper
83	100		
85	56.6	32.4	92.4
95	4.7	0.0	41.2

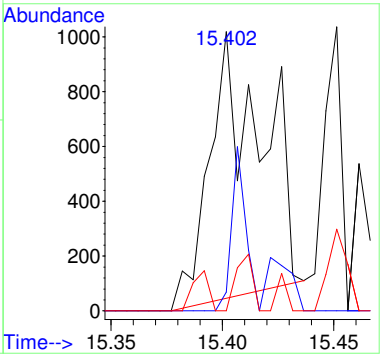


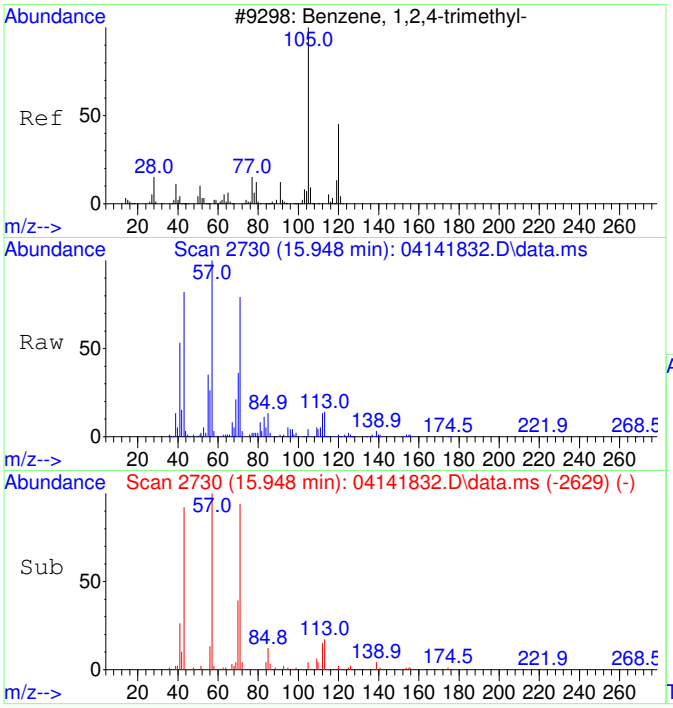


#46
1,3,5-Trimethylbenzene SCAN
Concen: 120.47 ug/L
RT: 15.402 min Scan# 2620
Delta R.T. -0.010 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:105 Resp: 1582

Ion	Ratio	Lower	Upper
105	100		
120	16.7	16.1	76.1
119	6.9	0.0	41.8

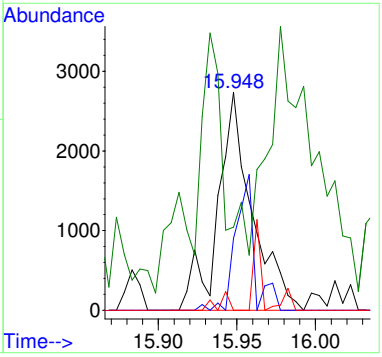


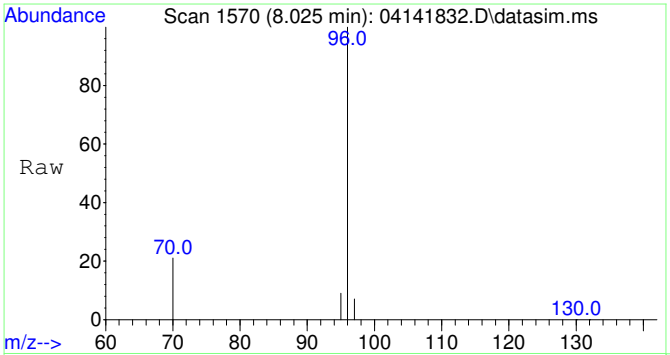


#47
1,2,4-Trimethylbenzene SCAN
Concen: 312.01 ug/L
RT: 15.948 min Scan# 2730
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion:105 Resp: 4130

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.8	72.8#
119	2.6	0.0	42.5
77	58.6	0.0	42.2#

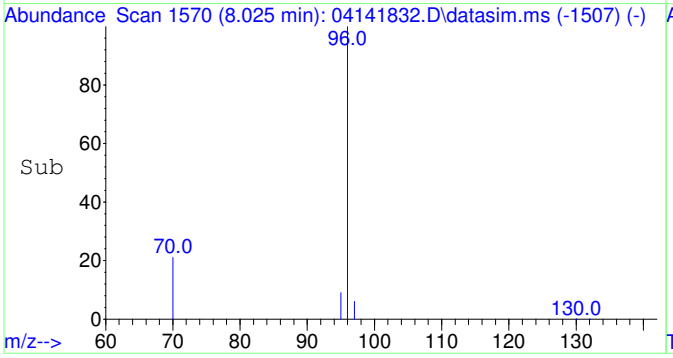


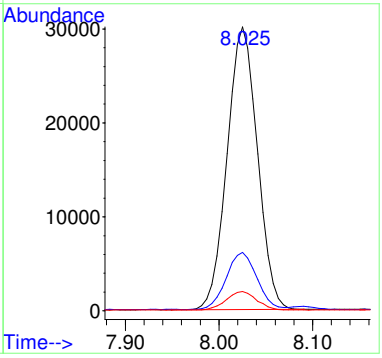


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.025 min Scan# 1570
Delta R.T. 0.000 min
Lab File: 04141832.D
Acq: 14 Apr 2018 23:08

Tgt Ion: 96 Resp: 67386

Ion	Ratio	Lower	Upper
96	100		
70	21.0	0.0	50.7
97	6.6	0.0	36.7





SECOND SOURCE CALIBRATION CHECK

Radiello D1

Laboratory:	EPA Region 9 Laboratory	SDG:	18093C
Client:	California Site Cleanup Section 3	Project:	MEW OU3 2018 Air and Sewer Gas Investigation
Instrument ID:	AG5975CV	Calibration:	1804008
Lab File ID:	04141809.D	Calibration Date:	04/16/18 10:16
Sequence:	S18D063	Injection Date:	04/14/18
Lab Sample ID:	S18D063-SCV1	Injection Time:	14:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	SCV	ICAL	SCV	MIN (#)	SCV	LIMIT (#)
1,1-Dichloroethene	L	5000	5470	0.2194761	0.2402518		9.5	30
trans-1,2-Dichloroethene	L	5000	5810	0.2242613	0.2608152		16.3	30
1,1-Dichloroethane	L	5000	5500	0.2986002	0.3282338		9.9	30
cis-1,2-Dichloroethene	L	5000	5670	0.2762494	0.313086		13.3	30
Chloroform	L	5000	5250	0.3248881	0.3414362		5.1	30
1,1,1-Trichloroethane	L	5000	5390	0.3172372	0.3421906		7.9	30
Carbon tetrachloride	L	5000	5270	0.2894214	0.3052454		5.5	30
1,2-Dichloroethane	L	5000	5420	0.2792636	0.3029282		8.5	30
Trichloroethene	L	5000	5160	0.2206781	0.2278577		3.3	30
Toluene	L	5000	4690	1.056293	0.9897829		-6.3	30
1,1,2-Trichloroethane	L	5000	4770	0.2333799	0.222706		-4.6	30
Tetrachloroethene	L	5000	4780	0.28952	0.2770515		-4.3	30
Chlorobenzene	L	5000	4700	0.7443228	0.6999925		-6.0	30
1,1,1,2-Tetrachloroethane	L	5000	4880	0.2477877	0.2416043		-2.5	30
Ethylbenzene	L	5000	4830	1.199095	1.158203		-3.4	30
m&p-Xylene	L	10000	9530	0.9382661	0.8941058		-4.7	30
o-Xylene	L	5000	4850	0.9886859	0.9587599		-3.0	30
1,1,2,2-Tetrachloroethane	L	5000	4570	0.4588934	0.4191527		-8.7	30
1,3,5-Trimethylbenzene	L	5000	4610	1.157181	1.067634		-7.7	30
1,2,4-Trimethylbenzene	L	5000	4530	1.177104	1.067101		-9.3	30
Naphthalene	L	5000	4350	2.037752	1.771312		-13.1	30
Toluene-d8	L	5000	5050	0.8392366	0.8475363		1.0	30

SCV REPORT

Instrument Name: AG5975C
Sample Name: S18D063-SCV1
Misc Info: 1745051 5 mg/L
Date Acquired: 4/14/2018
QLast Update: Mon Apr 16 09:30:40 2018
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	11.033	5000	5000.00	100%	70	130	pass
2)	1,1-Dichloroethene	3.097	5000	5473.30	109%	70	130	pass
3)	trans-1,2-Dichloroethene	4.303	5000	5814.98	116%	70	130	pass
4)	1,1-Dichloroethane	5.066	5000	5496.21	110%	70	130	pass
5)	cis-1,2-Dichloroethene	6.101	5000	5666.73	113%	70	130	pass
6)	Chloroform	6.676	5000	5254.67	105%	70	130	pass
7)	1,1,1-Trichloroethane	6.932	5000	5393.29	108%	70	130	pass
8)	Carbon tetrachloride	7.211	5000	5273.37	105%	70	130	pass
9)	Benzene	7.540	5000	5355.68	107%	70	130	pass
10)	1,2-Dichloroethane	7.588	5000	5423.70	108%	70	130	pass
11)	Trichloroethene	8.619	5000	5162.67	103%	70	130	pass
12)	Toluene-d8	10.540	5000	5049.45	101%	70	130	pass
13)	Toluene	10.634	5000	4685.17	94%	70	130	pass
14)	1,1,2-Trichloroethane	11.296	5000	4771.32	95%	70	130	pass
15)	Tetrachloroethene	11.495	5000	4784.67	96%	70	130	pass
16)	Chlorobenzene	12.829	5000	4702.21	94%	70	130	pass
17)	1,1,1,2-Tetrachloroethane	12.980	5000	4875.23	98%	70	130	pass
18)	Ethylbenzene	13.036	5000	4829.49	97%	70	130	pass
19)	m&p-Xylene	13.226	10000	9529.34	95%	70	130	pass
20)	o-Xylene	13.846	5000	4848.66	97%	70	130	pass
21)	1,1,2,2-Tetrachloroethane	14.944	5000	4566.99	91%	70	130	pass
22)	1,3,5-Trimethylbenzene	15.408	5000	4613.08	92%	70	130	pass
23)	1,2,4-Trimethylbenzene	15.949	5000	4532.74	91%	70	130	pass
24)	Naphthalene	17.932	5000	4346.24	87%	70	130	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141809.D
Acq On : 14 Apr 2018 14:02
InstName : AG5975C
Operator : RH
Sample : S18D063-SCV1
Misc : 1745051 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 16 09:31:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

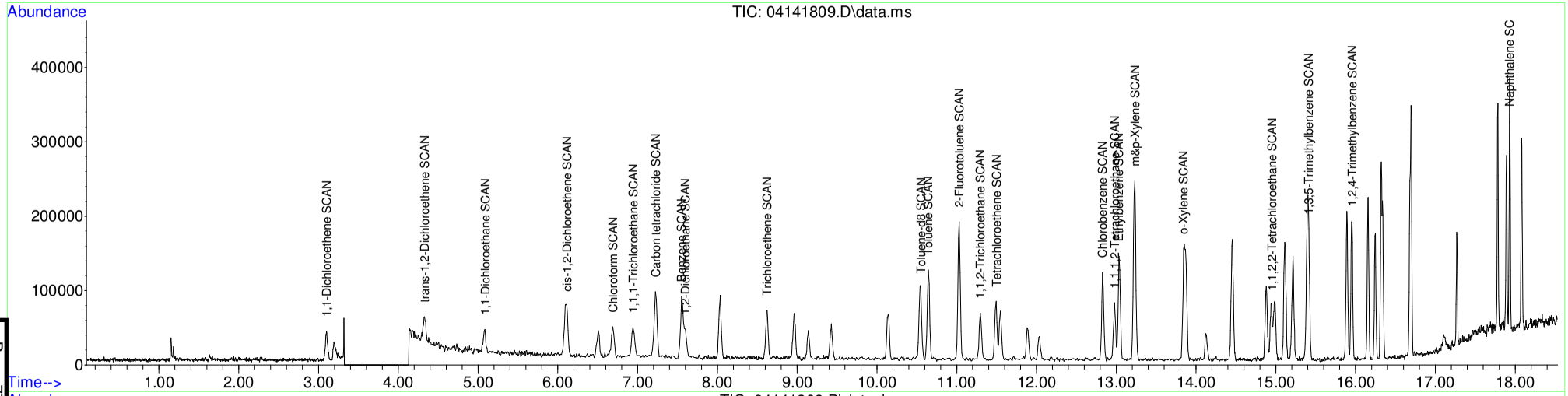
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	185572	5000.00 ug/L	0.00
49) Fluorobenzene	8.031	96	151656	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	157279	5049.45 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.99%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	44921	5514.67 ug/L	99
3] trans-1,2-Dichloroethene	4.323	61	48400	5814.98 ug/L	100
4] 1,1-Dichloroethane	5.079	63	60911	5496.21 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	58100	5666.73 ug/L	100
6] Chloroform	6.688	83	63361	5254.67 ug/L	99
7] 1,1,1-Trichloroethane	6.944	97	63501	5393.29 ug/L	100
8] Carbon tetrachloride	7.211	117	56645	5273.37 ug/L	98
9] Benzene	7.552	78	159202	5355.68 ug/L	100
10] 1,2-Dichloroethane	7.588	62	56215	5423.70 ug/L	99
11] Trichloroethene	8.619	130	42284	5162.67 ug/L	100
13] Toluene	10.634	91	183676	4685.17 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	41328	4771.32 ug/L	100
15] Tetrachloroethene	11.495	166	51413	4784.67 ug/L	100
16] Chlorobenzene	12.829	112	129899	4702.21 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	44835	4875.23 ug/L	99
18] Ethylbenzene	13.036	91	214930	4829.49 ug/L	100
19] m&p-Xylene	13.226	91	331842	9529.34 ug/L	100
20] o-Xylene	13.846	91	177919	4848.66 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.944	83	77783	4566.99 ug/L	100
22] 1,3,5-Trimethylbenzene	15.409	105	198123	4613.08 ug/L	100
23] 1,2,4-Trimethylbenzene	15.950	105	198024	4532.74 ug/L	100
24] Naphthalene	17.932	128	328706	4346.24 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	99886	5570.54 ug/L	94
26) 1,1-Dichloroethene SCAN	3.100	61	26054	6555.98 ug/L	87
27) trans-1,2-Dichloroethe...	4.328	61	25160	6461.42 ug/L	81
28) 1,1-Dichloroethane SCAN	5.085	63	35334	5930.41 ug/L	95
29) cis-1,2-Dichloroethene...	6.113	61	33275	7114.71 ug/L	87
30) Chloroform SCAN	6.687	83	37111	6576.53 ug/L	87
31) 1,1,1-Trichloroethane ...	6.943	97	29359	4146.00 ug/L	76
32) Carbon tetrachloride SCAN	7.222	117	27661	5430.92 ug/L	84
33) Benzene SCAN	7.551	78	87417	5662.12 ug/L	86
34) 1,2-Dichloroethane SCAN	7.599	62	35556	6073.67 ug/L	96
35) Trichloroethene SCAN	8.617	130	21594	5566.94 ug/L	97
36) Toluene-d8 SCAN	10.549	98	77424	4917.81 ug/L	98
37) Toluene SCAN	10.644	91	98546	5596.82 ug/L	90
38) 1,1,2-Trichloroethane ...	11.294	97	21817	4045.97 ug/L	81
39) Tetrachloroethene SCAN	11.494	166	26072	4540.51 ug/L	94
40) Chlorobenzene SCAN	12.828	112	61991	4480.11 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.979	131	20700	4601.64 ug/L	95
42) Ethylbenzene SCAN	13.034	91	107495	4657.50 ug/L	97
43) m&p-Xylene SCAN	13.233	91	170448	4538.00 ug/L	94
44) o-Xylene SCAN	13.845	91	90273	4438.57 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.946	83	41748	3921.65 ug/L	96
46) 1,3,5-Trimethylbenzene...	15.413	105	98297	4204.93 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.954	105	96950	4114.40 ug/L	97
48) Naphthalene SCAN	17.931	128	143705	3785.10 ug/L	98

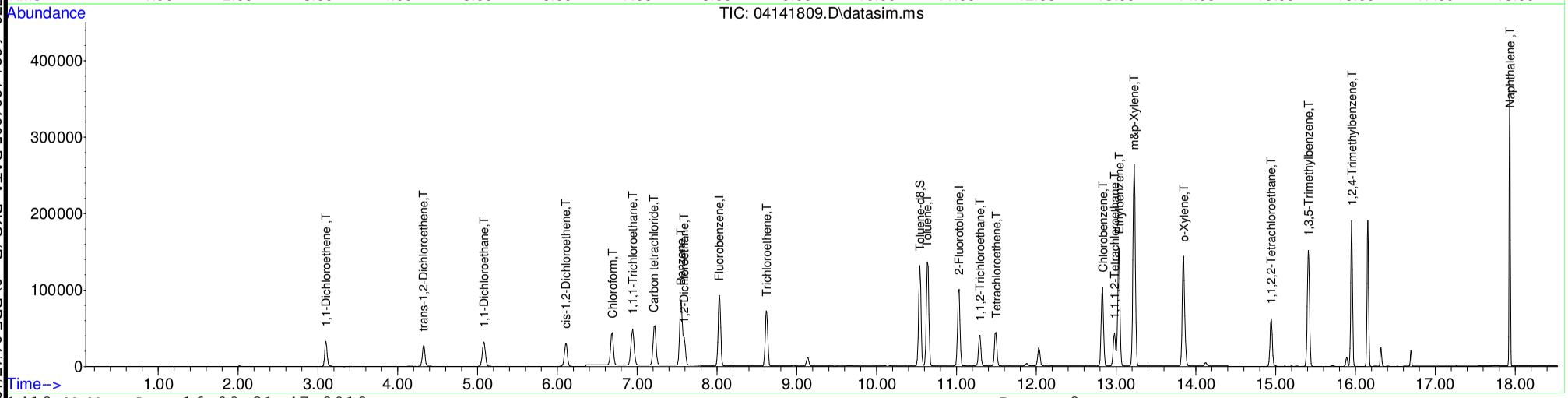
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141809.D
Acq On : 14 Apr 2018 14:02
InstName : AG5975C
Operator : RH
Sample : S18D063-SCV1
Misc : 1745051 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 16 09:31:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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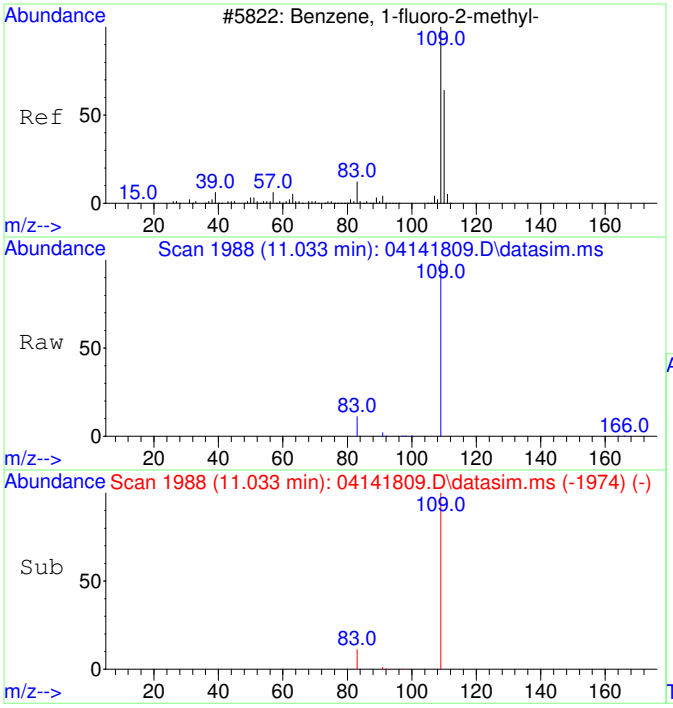
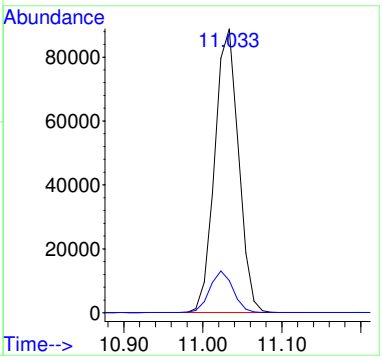
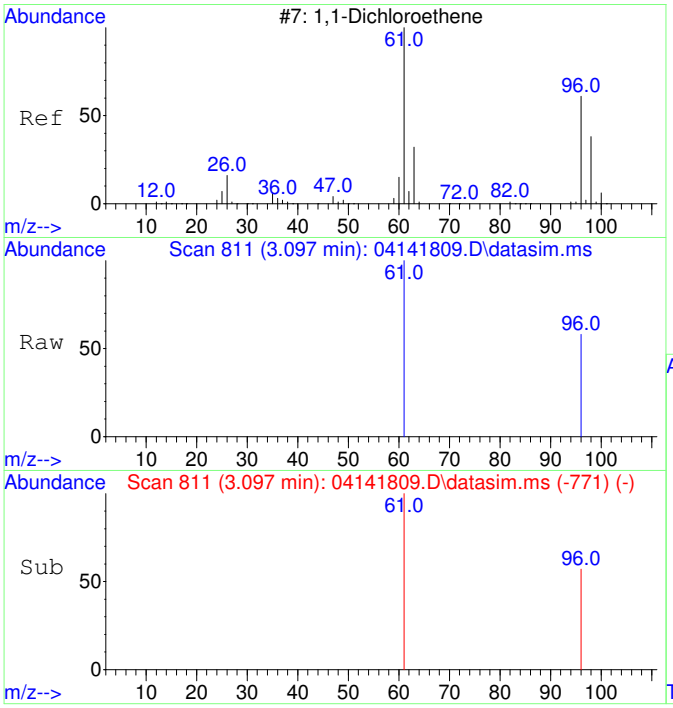


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:109 Resp: 185572

Ion	Ratio	Lower	Upper
109	100		
83	14.3	0.0	44.4

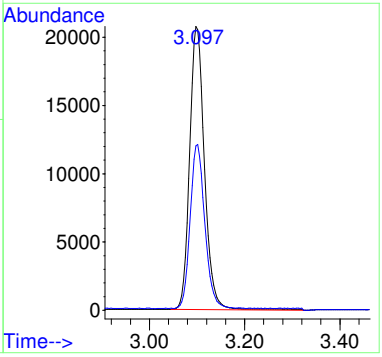




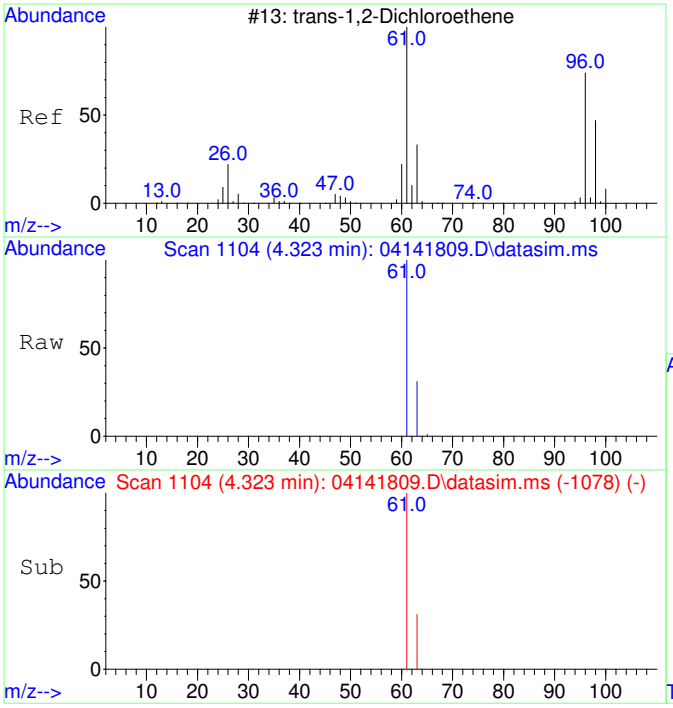
#2
1,1-Dichloroethene
Concen: 5514.67 ug/L
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 44921

Ion	Ratio	Lower	Upper
61	100		
96	56.6	26.1	86.1



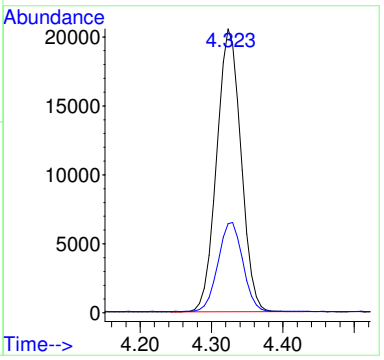
Before MI:
IMPROPER
BASELINE

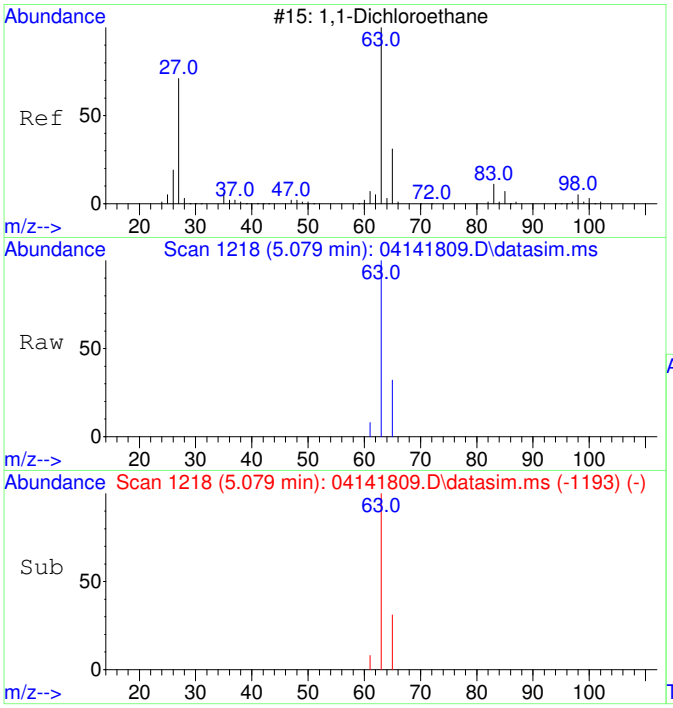


#3
trans-1,2-Dichloroethene
Concen: 5814.98 ug/L
RT: 4.323 min Scan# 1104
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 48400

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

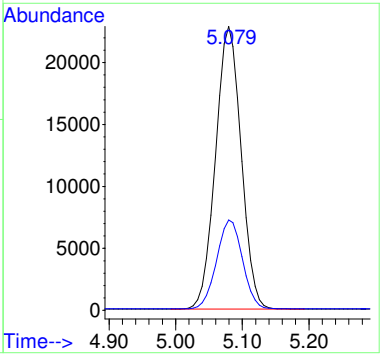


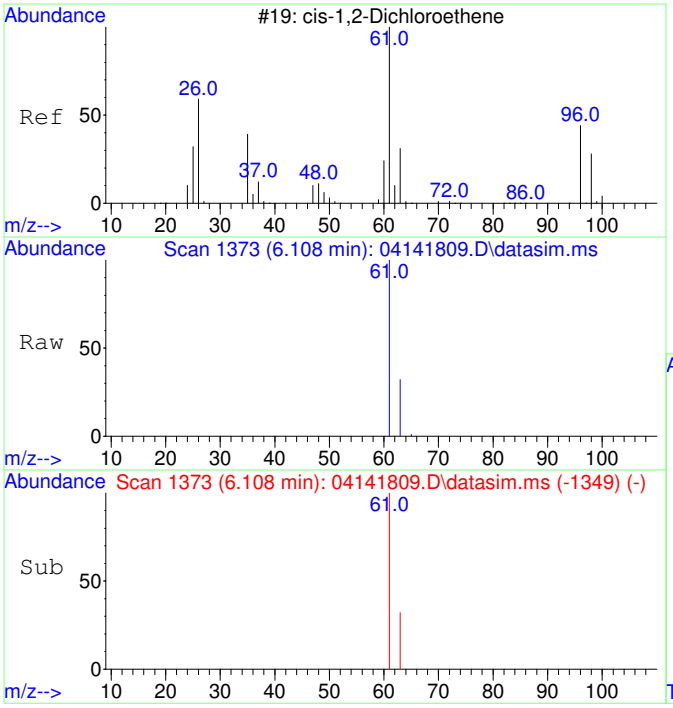


#4
1,1-Dichloroethane
Concen: 5496.21 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 63 Resp: 60911

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.8	61.8

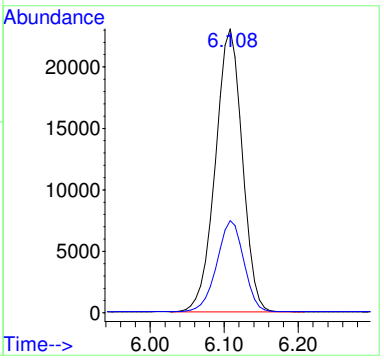


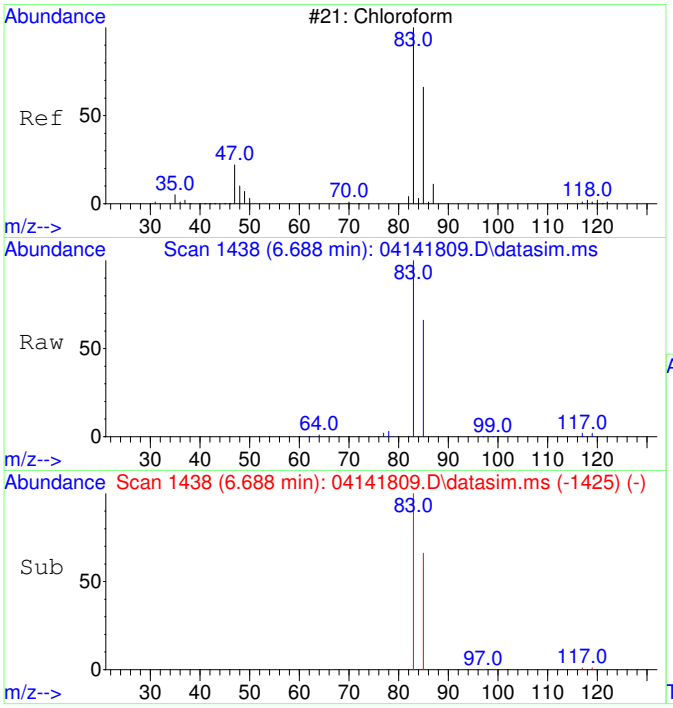


#5
cis-1,2-Dichloroethene
Concen: 5666.73 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.007 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 58100

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.0	62.0

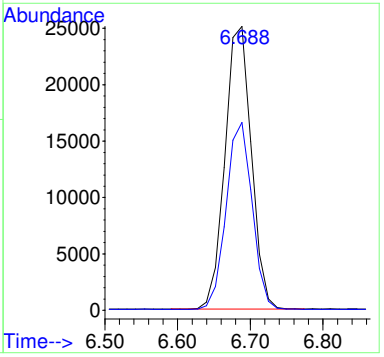


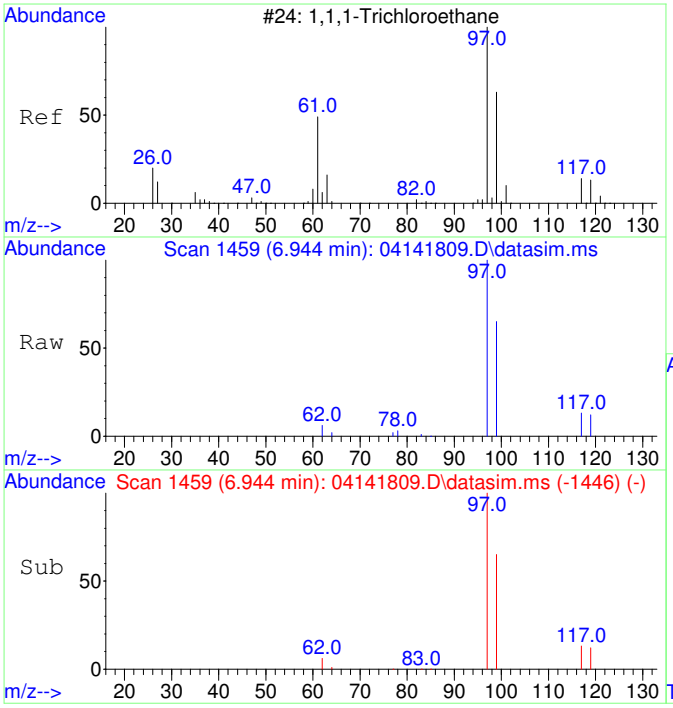


#6
Chloroform
Concen: 5254.67 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 63361

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.2	94.2

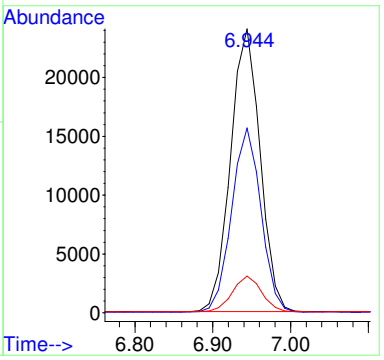


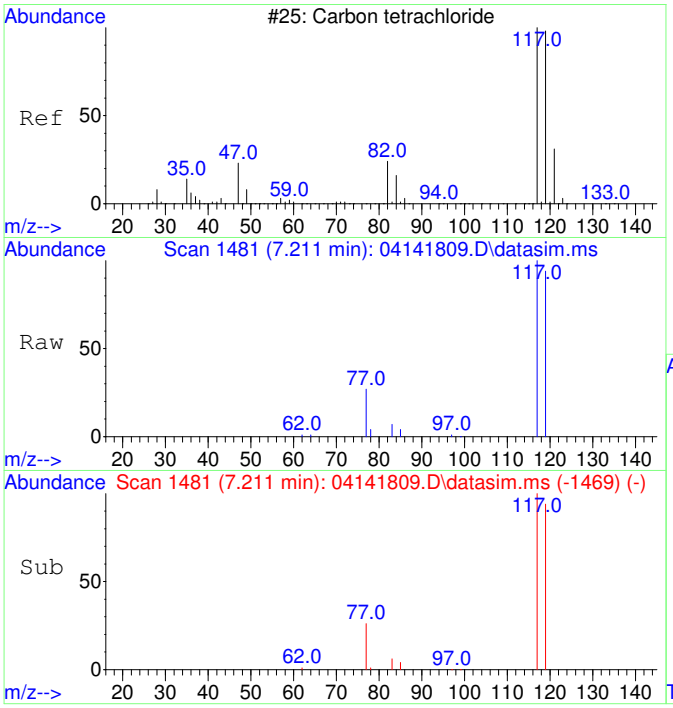


#7
1,1,1-Trichloroethane
Concen: 5393.29 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 63501

Ion	Ratio	Lower	Upper
97	100		
99	64.6	34.5	94.5
117	12.4	0.0	42.6

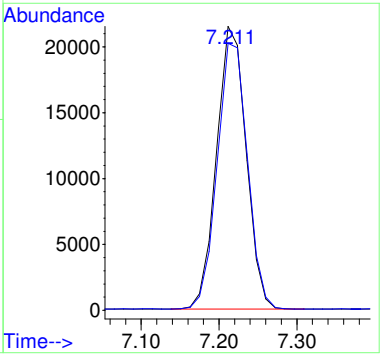


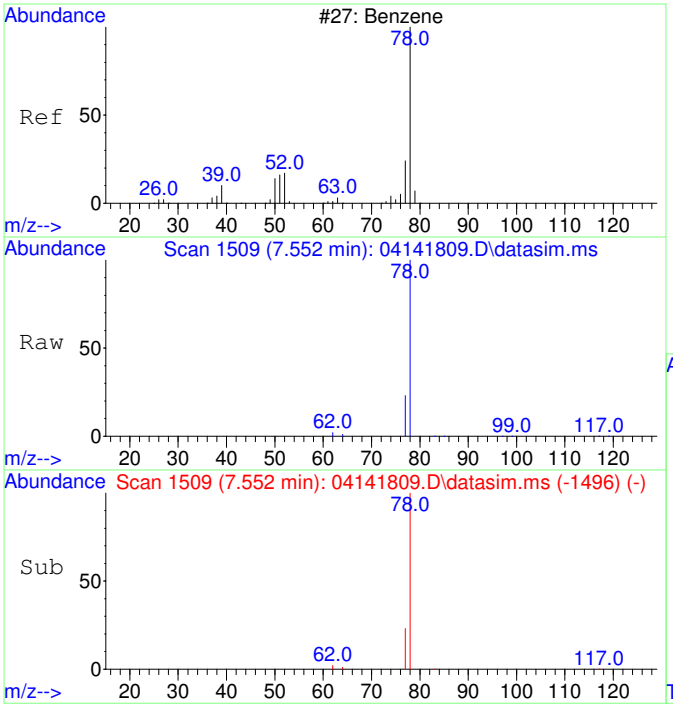


#8
Carbon tetrachloride
Concen: 5273.37 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:117 Resp: 56645

Ion	Ratio	Lower	Upper
117	100		
119	96.1	64.5	124.5

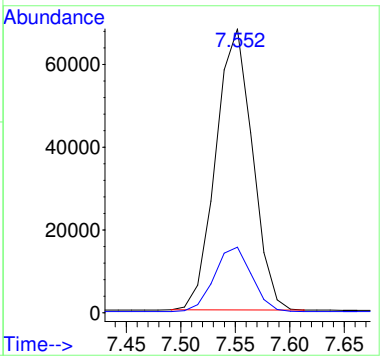


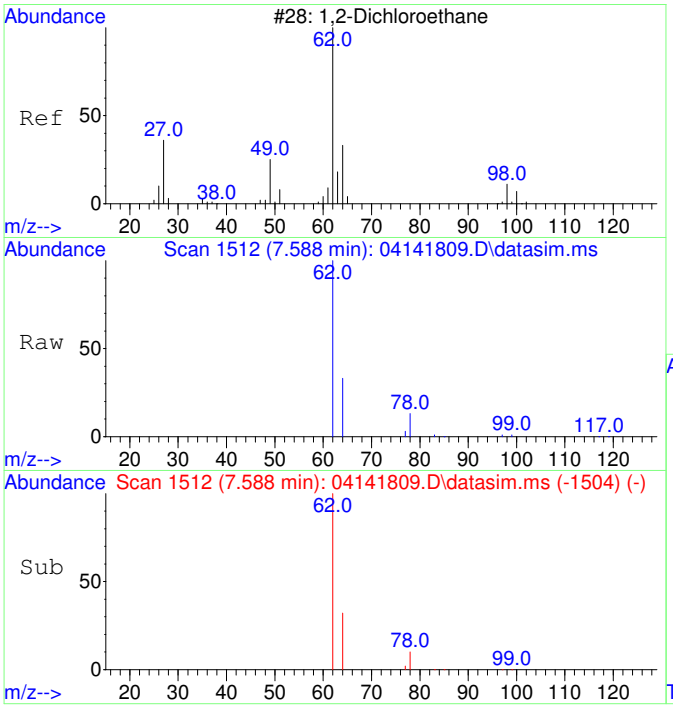


#9
Benzene
Concen: 5355.68 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 78 Resp: 159202

Ion	Ratio	Lower	Upper
78	100		
77	23.4	0.0	53.6

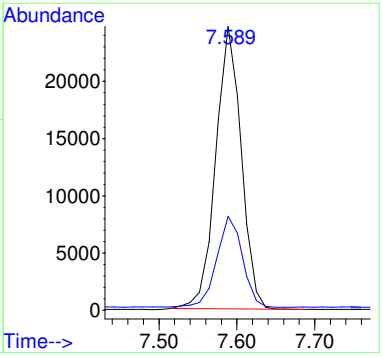


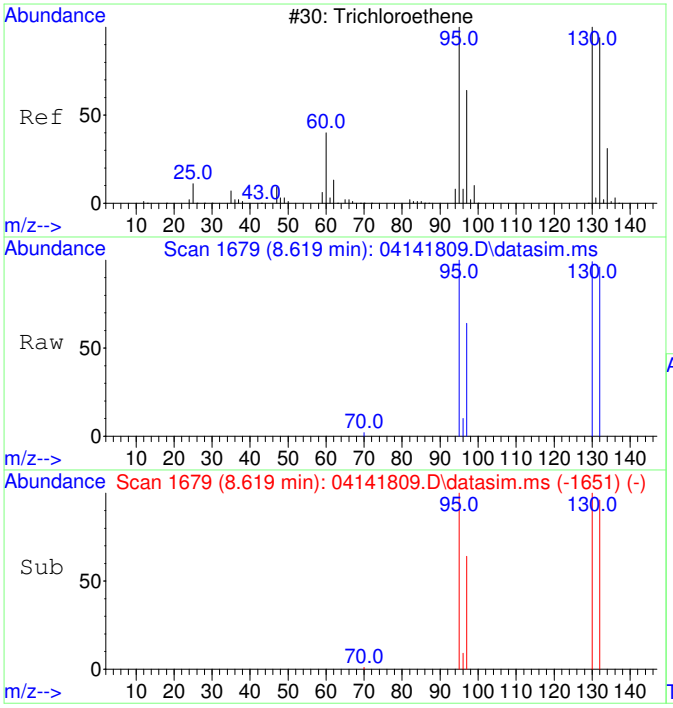


#10
1,2-Dichloroethane
Concen: 5423.70 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 62 Resp: 56215

Ion	Ratio	Lower	Upper
62	100		
64	32.2	1.8	61.8

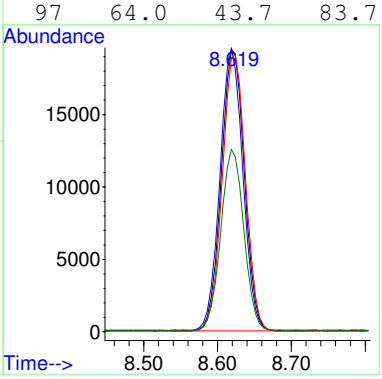


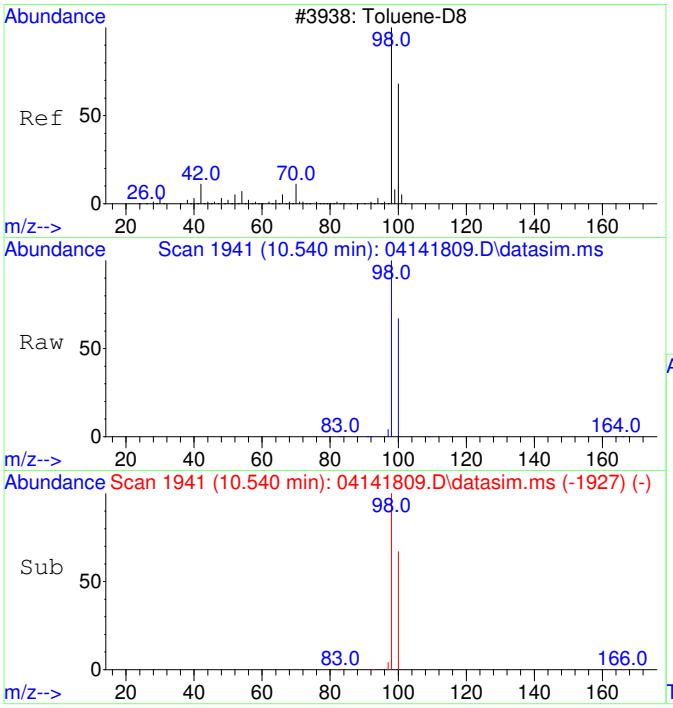


#11
Trichloroethene
Concen: 5162.67 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:130 Resp: 42284

Ion	Ratio	Lower	Upper
130	100		
95	99.2	68.8	128.8
132	98.6	78.6	118.6
97	64.0	43.7	83.7

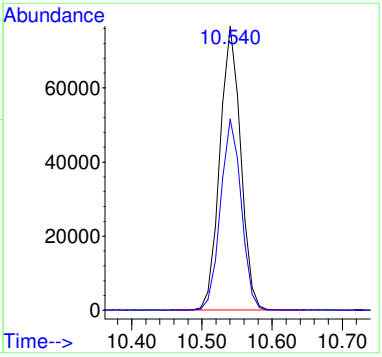


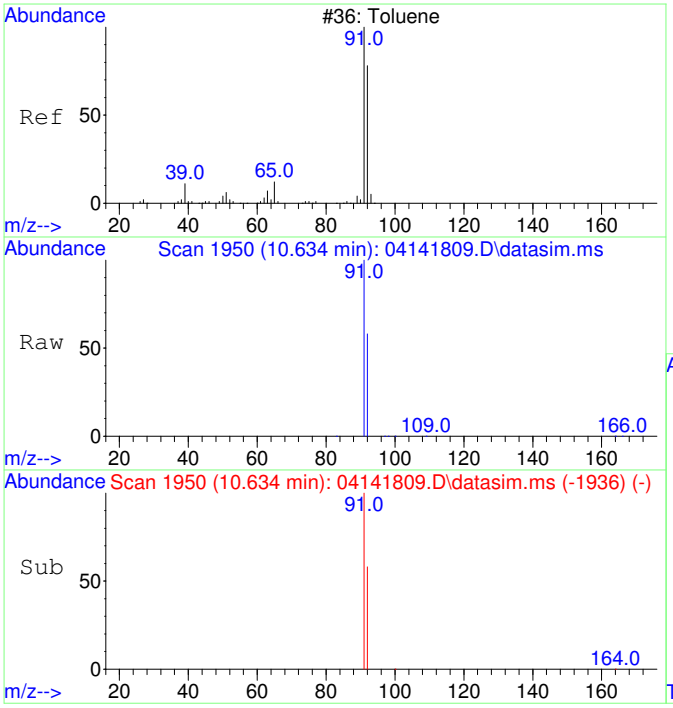


#12
Toluene-d8
Concen: 5049.45 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 98 Resp: 157279

Ion	Ratio	Lower	Upper
98	100		
100	67.0	36.9	96.9

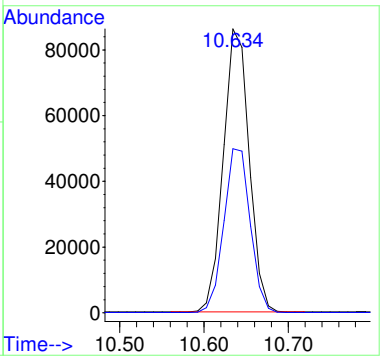


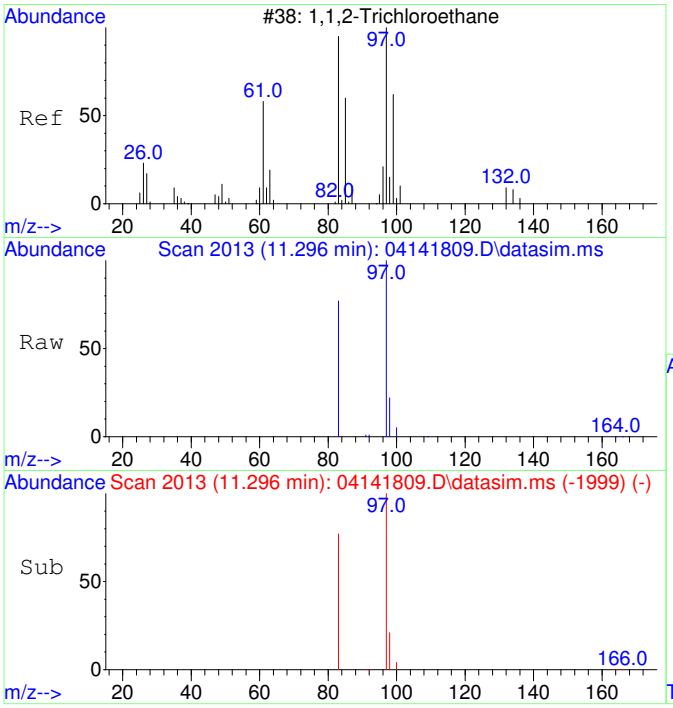


#13
Toluene
Concen: 4685.17 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 183676

Ion	Ratio	Lower	Upper
91	100		
92	59.1	28.8	88.8

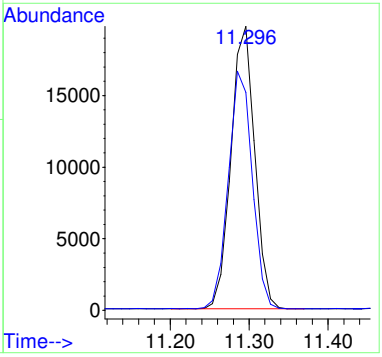


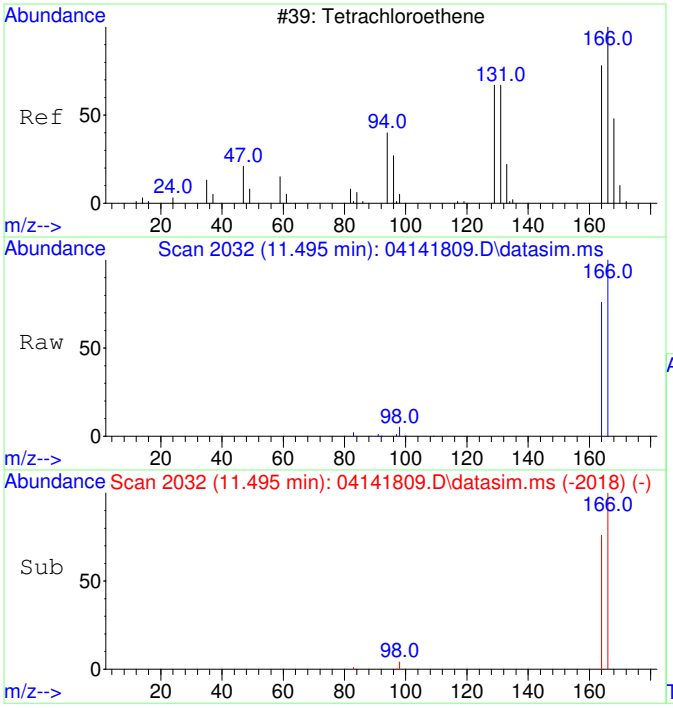


#14
1,1,2-Trichloroethane
Concen: 4771.32 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 41328

Ion	Ratio	Lower	Upper
97	100		
83	84.6	54.3	114.3

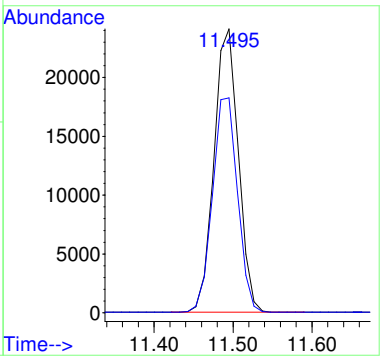


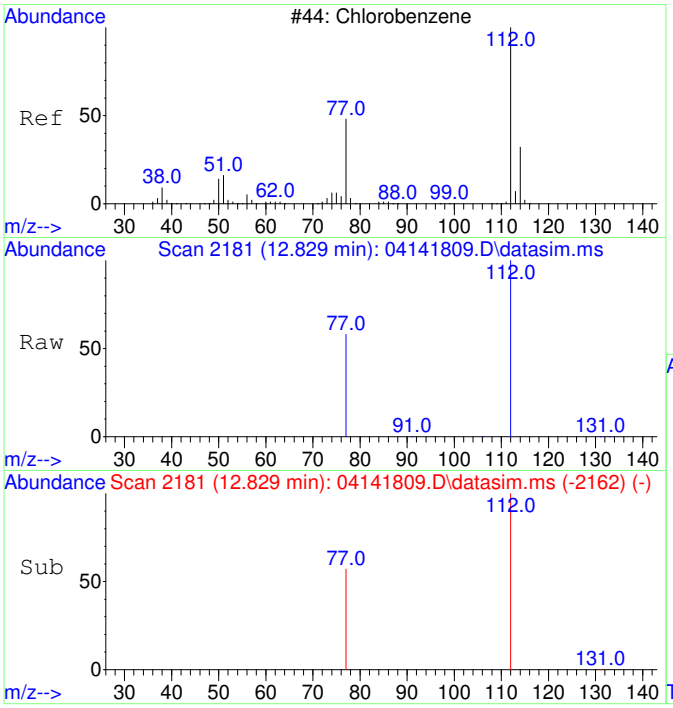


#15
Tetrachloroethene
Concen: 4784.67 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:166 Resp: 51413

Ion	Ratio	Lower	Upper
166	100		
164	78.1	48.0	108.0

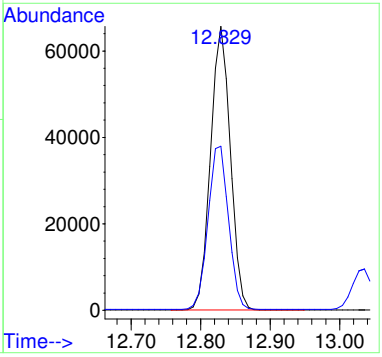


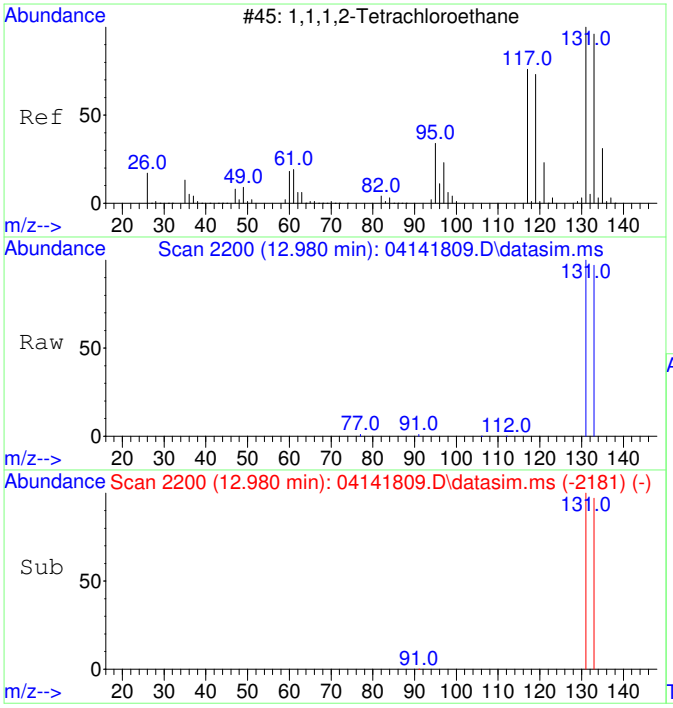


#16
Chlorobenzene
Concen: 4702.21 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:112 Resp: 129899

Ion	Ratio	Lower	Upper
112	100		
77	59.4	29.4	89.4

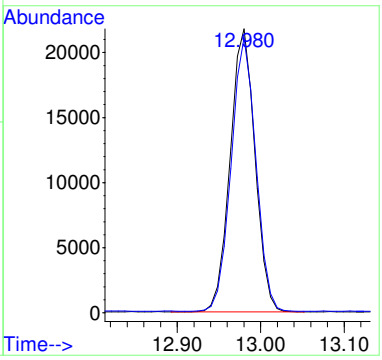


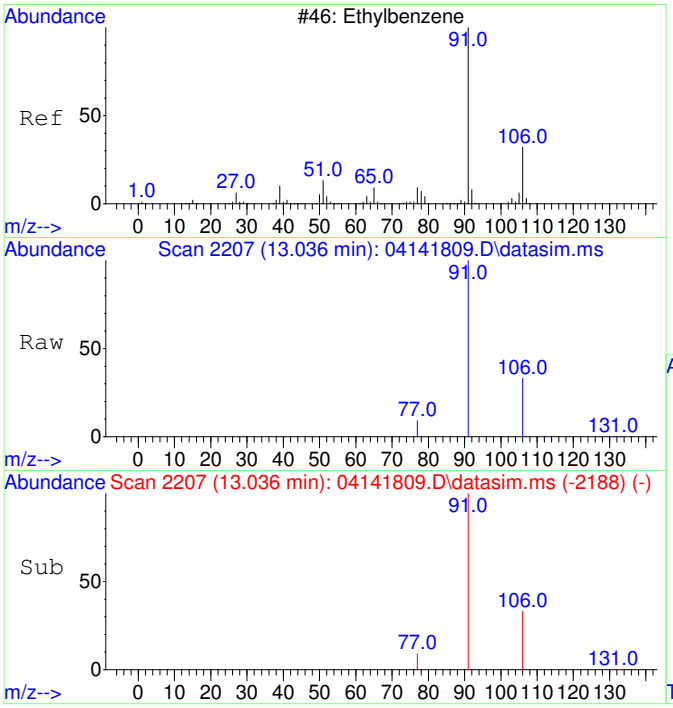


#17
1,1,1,2-Tetrachloroethane
Concen: 4875.23 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:131 Resp: 44835

Ion	Ratio	Lower	Upper
131	100		
133	96.1	65.1	125.1

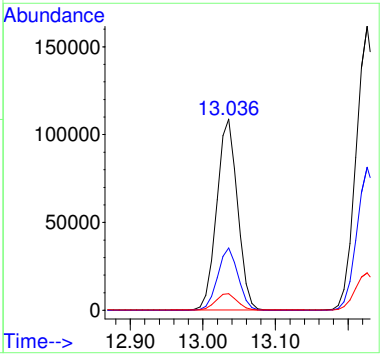


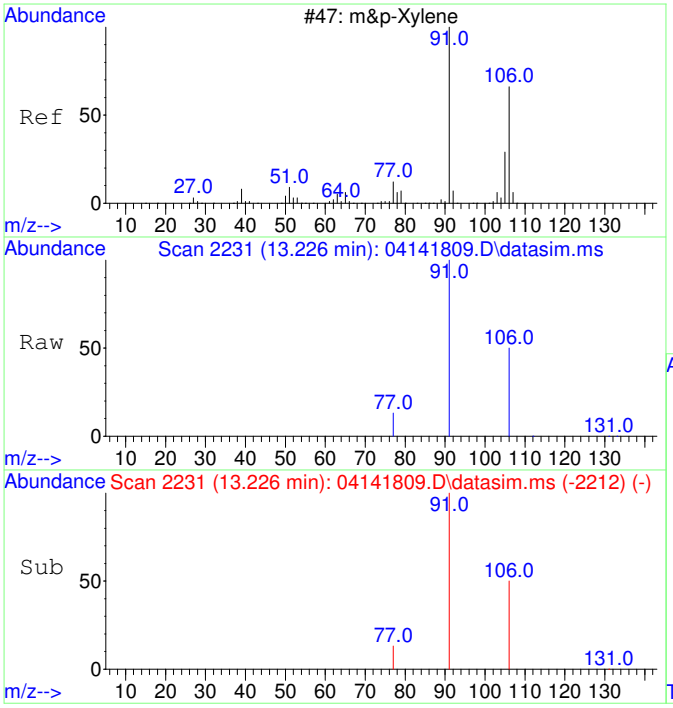


#18
Ethylbenzene
Concen: 4829.49 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 214930

Ion	Ratio	Lower	Upper
91	100		
106	32.1	1.8	61.8
77	8.7	0.0	38.7

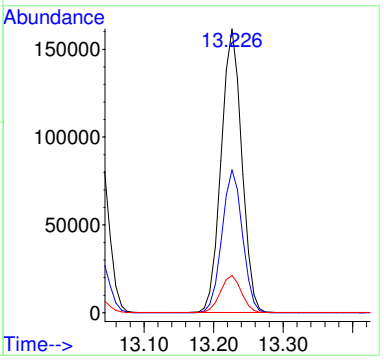


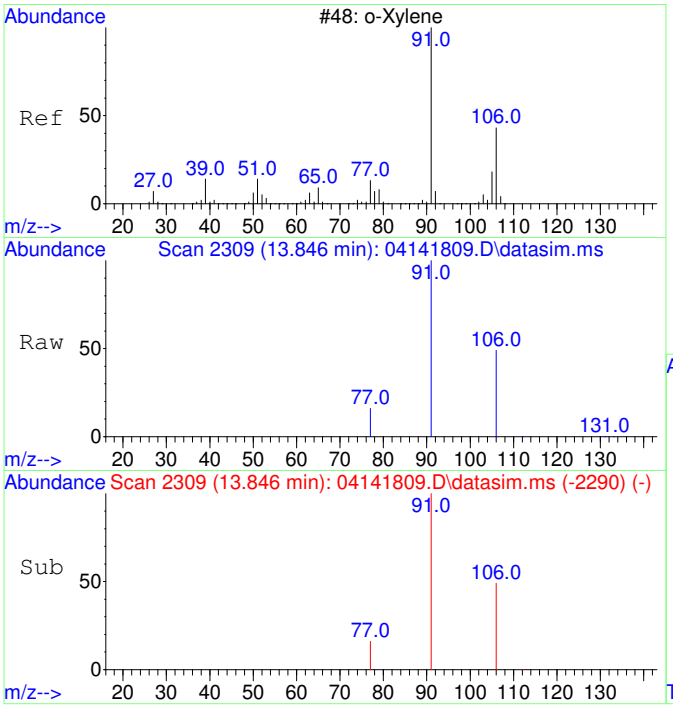


#19
m&p-Xylene
Concen: 9529.34 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 331842

Ion	Ratio	Lower	Upper
91	100		
106	50.2	20.0	80.0
77	13.2	0.0	43.4

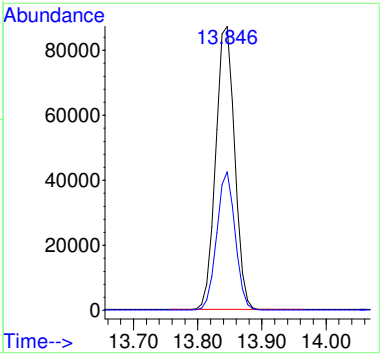


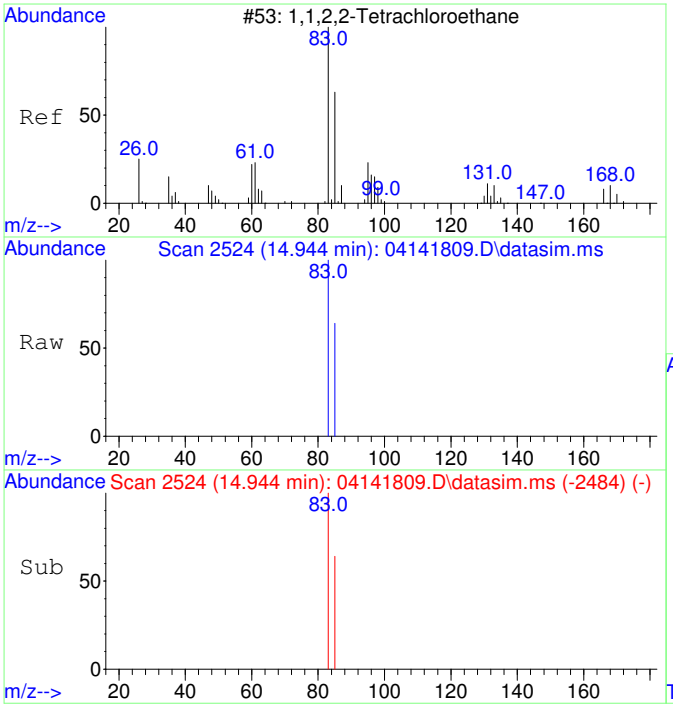


#20
o-Xylene
Concen: 4848.66 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 177919

Ion	Ratio	Lower	Upper
91	100		
106	47.4	16.9	76.9

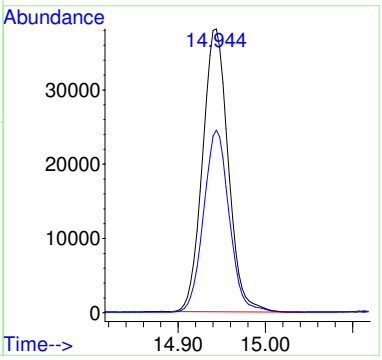


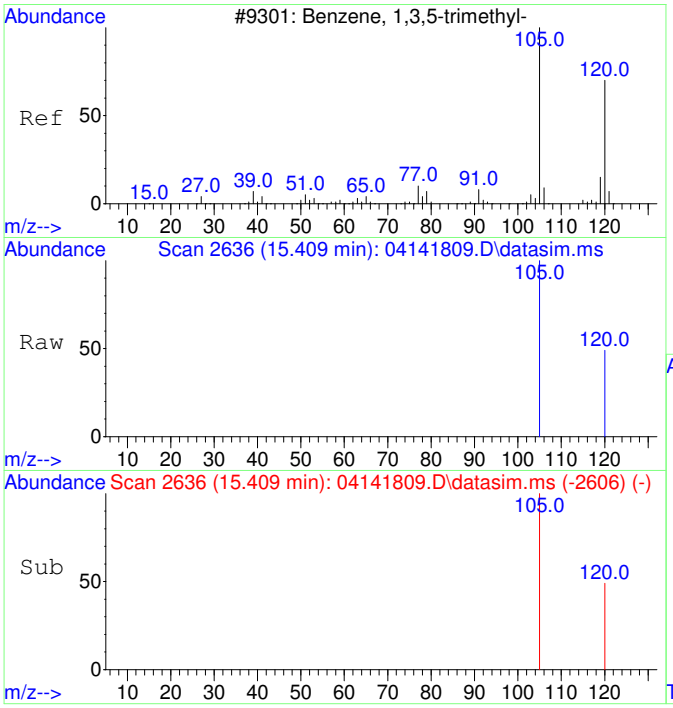


#21
1,1,2,2-Tetrachloroethane
Concen: 4566.99 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 77783

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.3	94.3

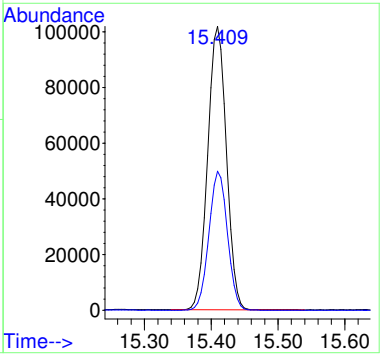


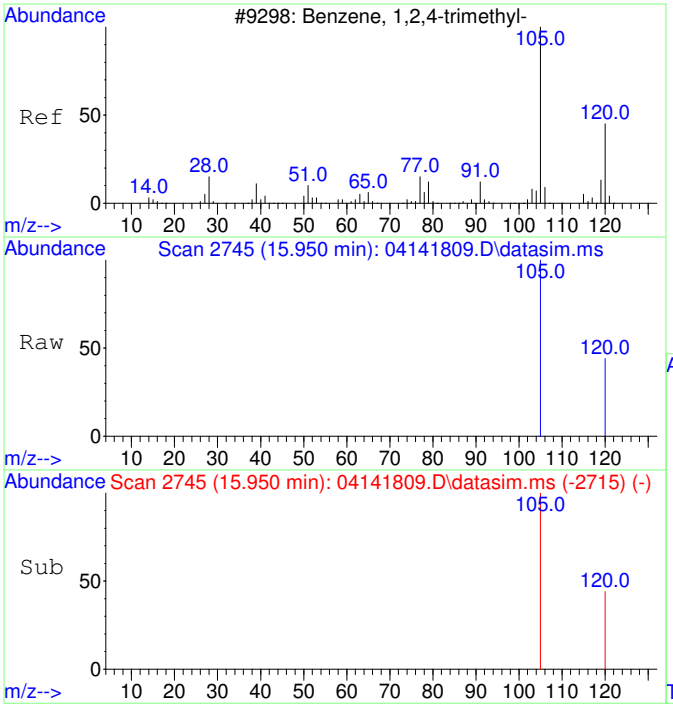


#22
1,3,5-Trimethylbenzene
Concen: 4613.08 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 198123

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.1	78.1

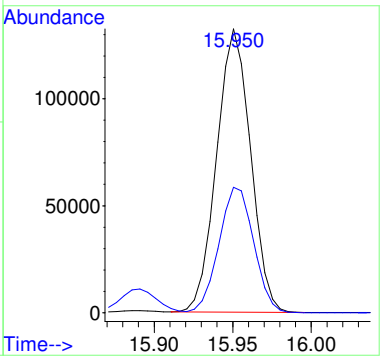


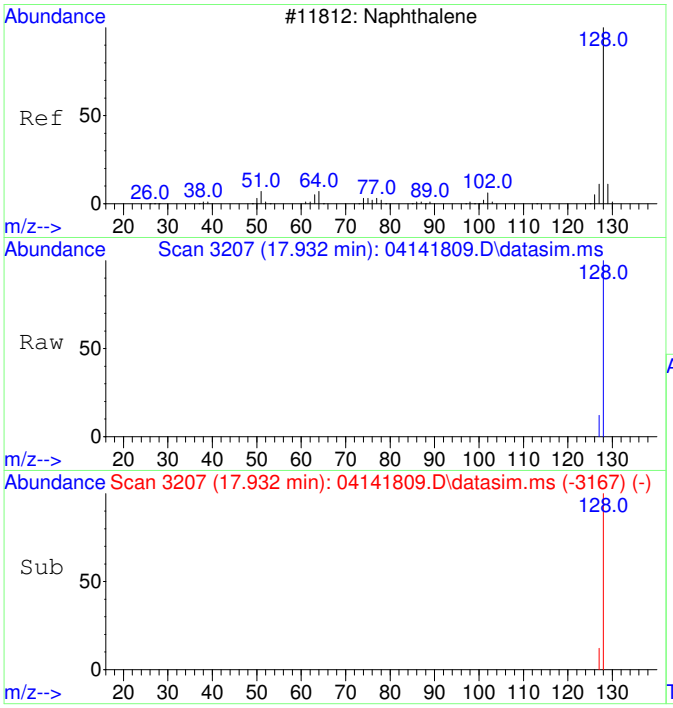


#23
1,2,4-Trimethylbenzene
Concen: 4532.74 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 198024

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.5	74.5

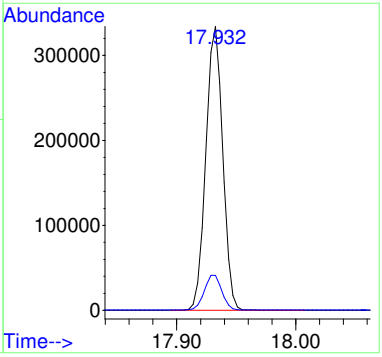


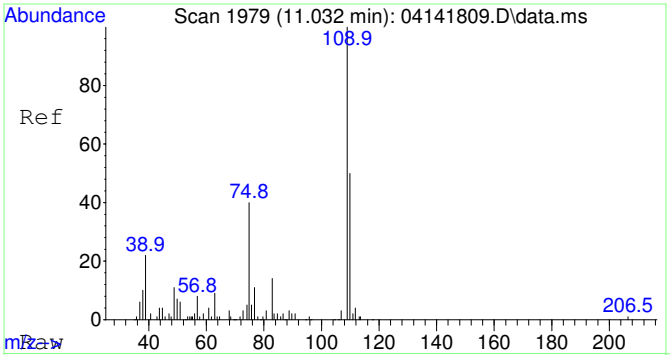


#24
Naphthalene
Concen: 4346.24 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:128 Resp: 328706

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.7

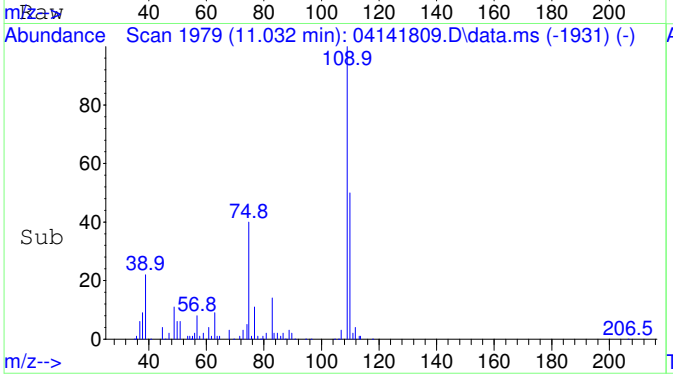


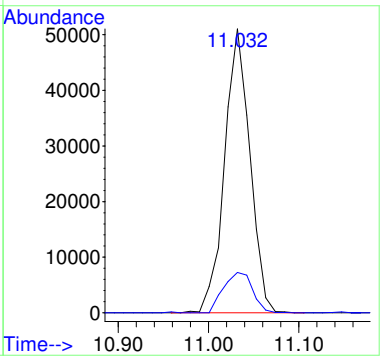


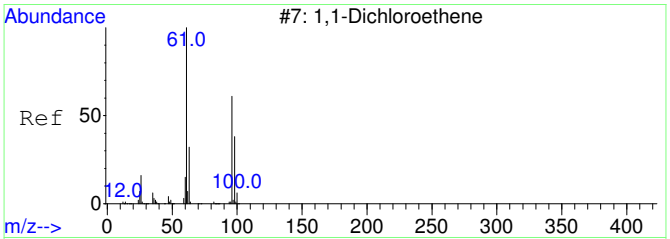
#25
2-Fluorotoluene SCAN
Concen: 5570.54 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:109 Resp: 99886

Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	49.2



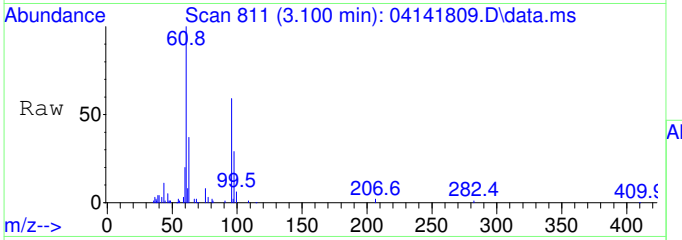


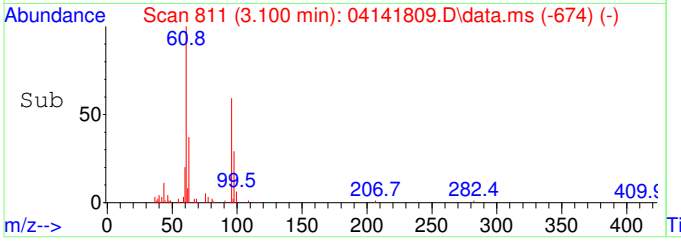


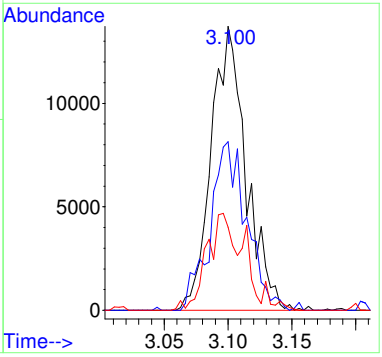
#26
1,1-Dichloroethene SCAN
Concen: 6555.98 ug/L
RT: 3.100 min Scan# 811
Delta R.T. 0.008 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

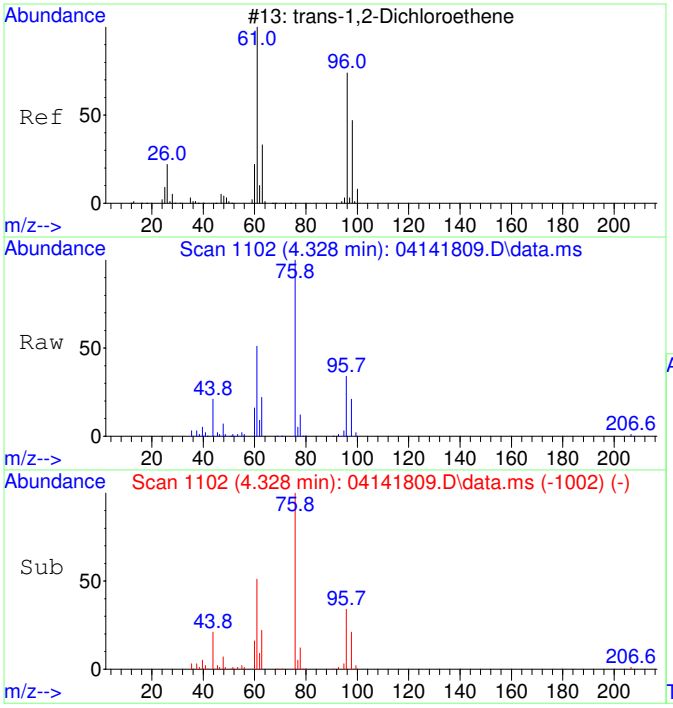
Tgt Ion: 61 Resp: 26054

Ion	Ratio	Lower	Upper
61	100		
96	62.1	21.6	81.6
98	31.9	7.5	67.5





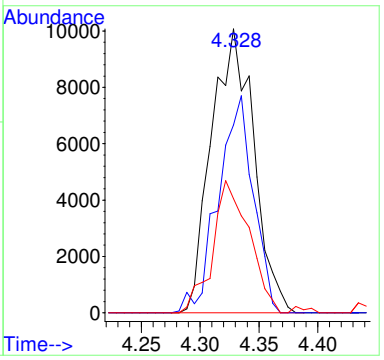


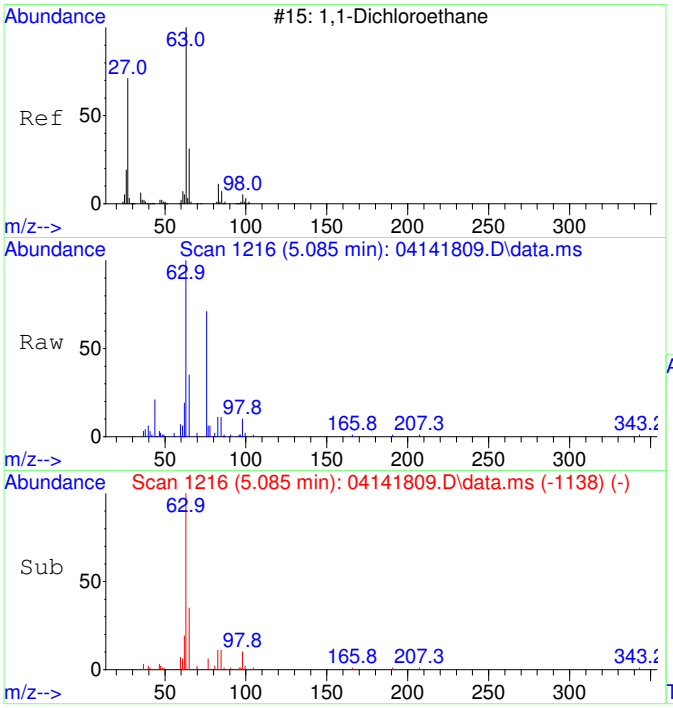


#27
trans-1,2-Dichloroethene SCAN
Concen: 6461.42 ug/L
RT: 4.328 min Scan# 1102
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 25160

Ion	Ratio	Lower	Upper
61	100		
96	63.4	51.8	111.8
98	40.3	22.7	82.7

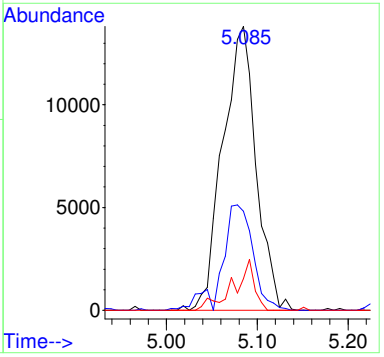


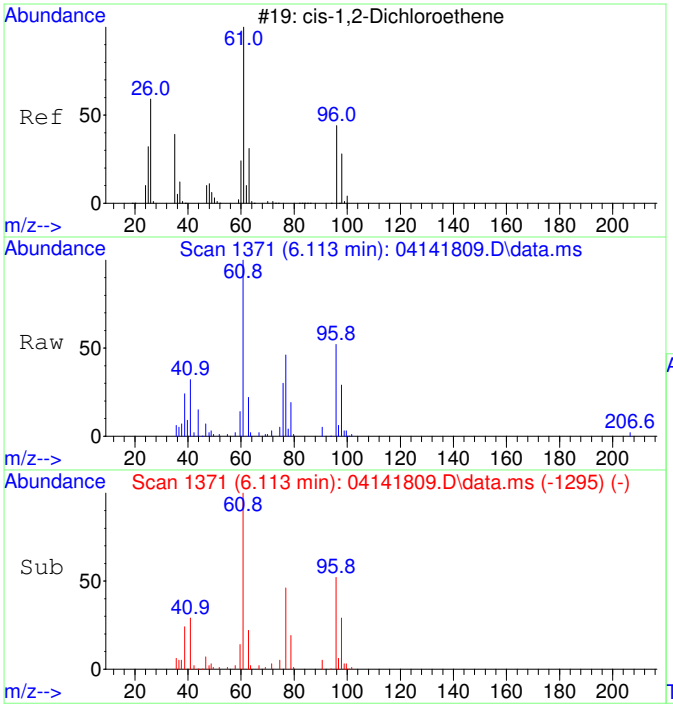


#28
1,1-Dichloroethane SCAN
Concen: 5930.41 ug/L
RT: 5.085 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 63 Resp: 35334

Ion	Ratio	Lower	Upper
63	100		
65	34.5	2.2	62.2
83	11.2	0.0	38.2

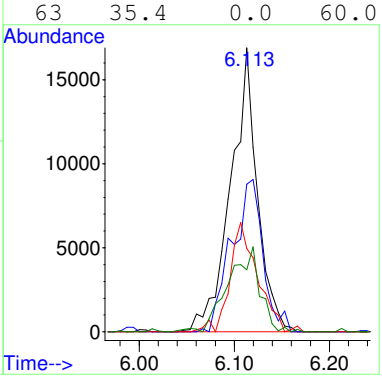


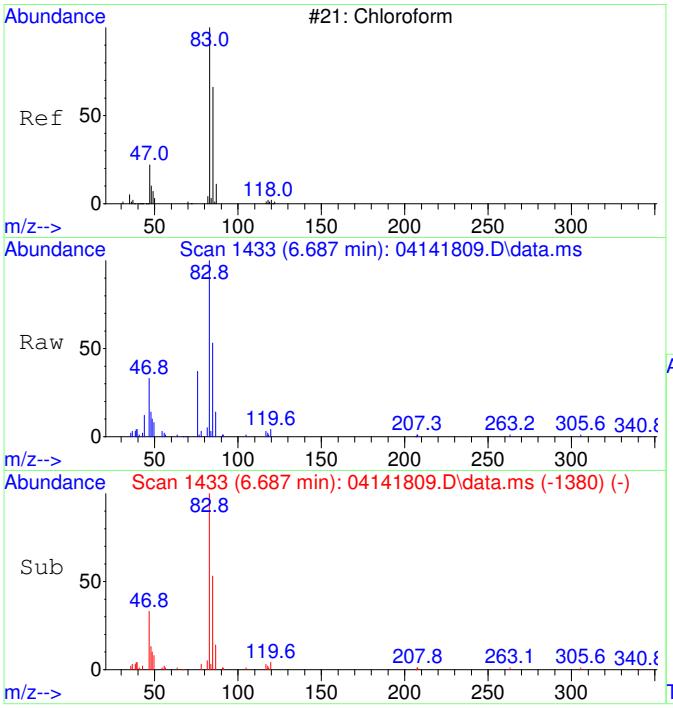


#29
cis-1,2-Dichloroethene SCAN
Concen: 7114.71 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.007 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 33275

Ion	Ratio	Lower	Upper
61	100		
96	62.1	49.4	109.4
98	37.4	9.5	69.5
63	35.4	0.0	60.0

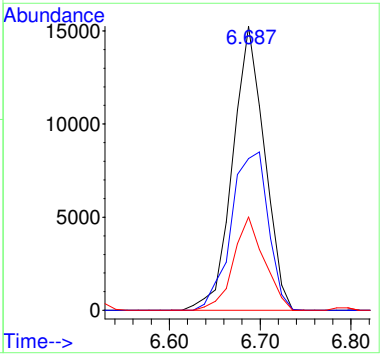


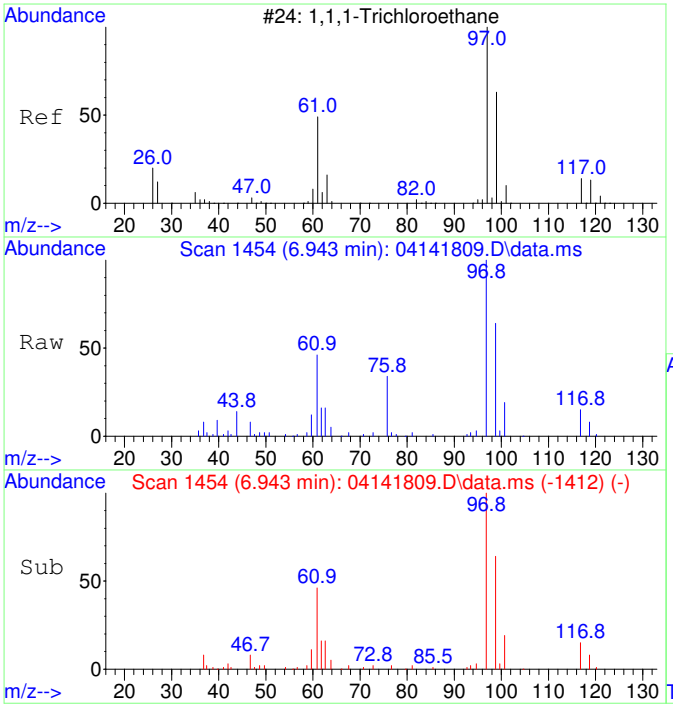


#30
Chloroform SCAN
Concen: 6576.53 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 37111

Ion	Ratio	Lower	Upper
83	100		
85	65.2	47.8	107.8
47	32.2	8.2	68.2

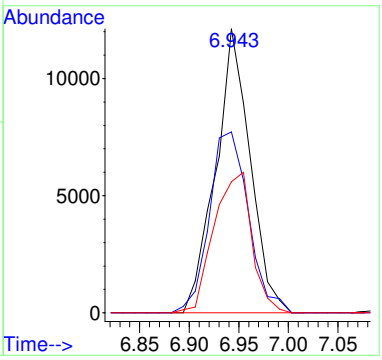


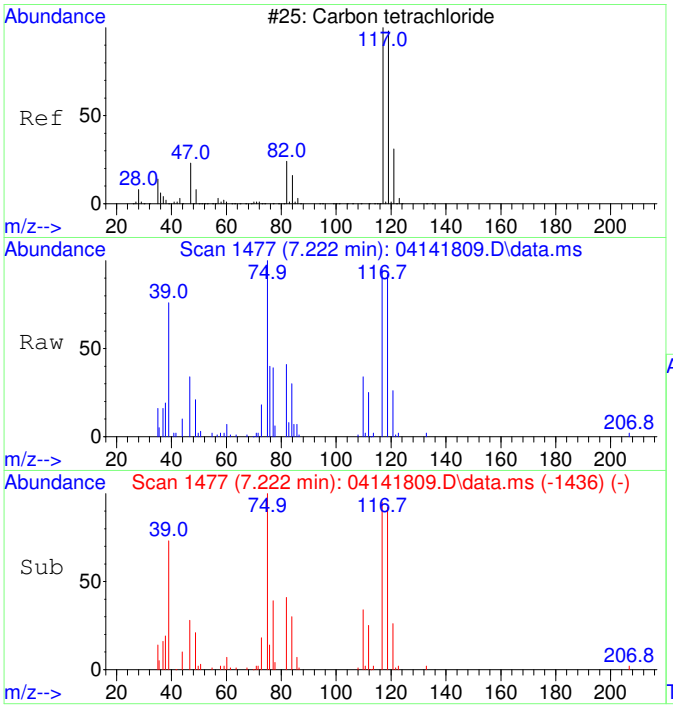


#31
1,1,1-Trichloroethane SCAN
Concen: 4146.00 ug/L
RT: 6.943 min Scan# 1454
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 29359

Ion	Ratio	Lower	Upper
97	100		
99	72.5	18.3	78.3
61	54.4	16.3	76.3

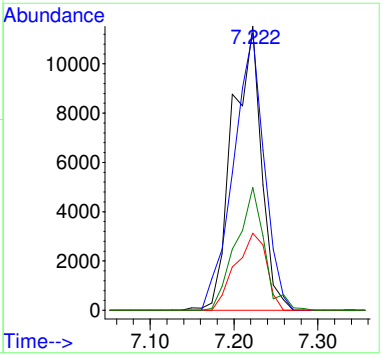


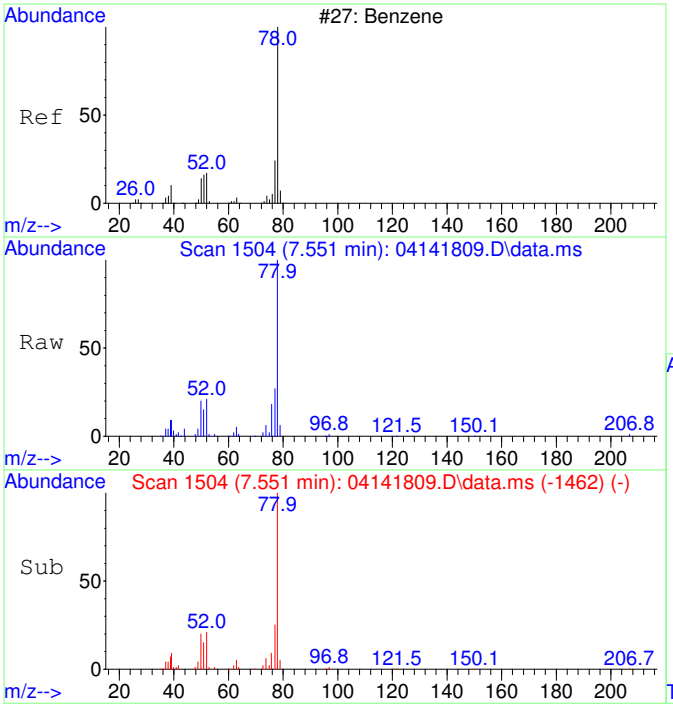


#32
Carbon tetrachloride SCAN
Concen: 5430.92 ug/L
RT: 7.222 min Scan# 1477
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:117 Resp: 27661

Ion	Ratio	Lower	Upper
117	100		
119	103.2	54.4	114.4
121	28.9	0.0	53.0
82	42.3	7.9	67.9

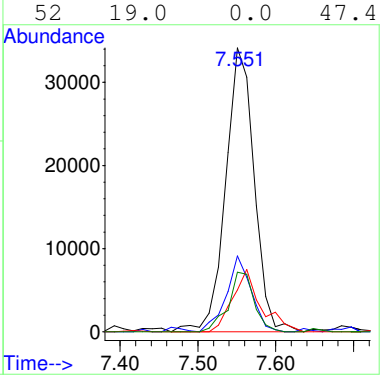


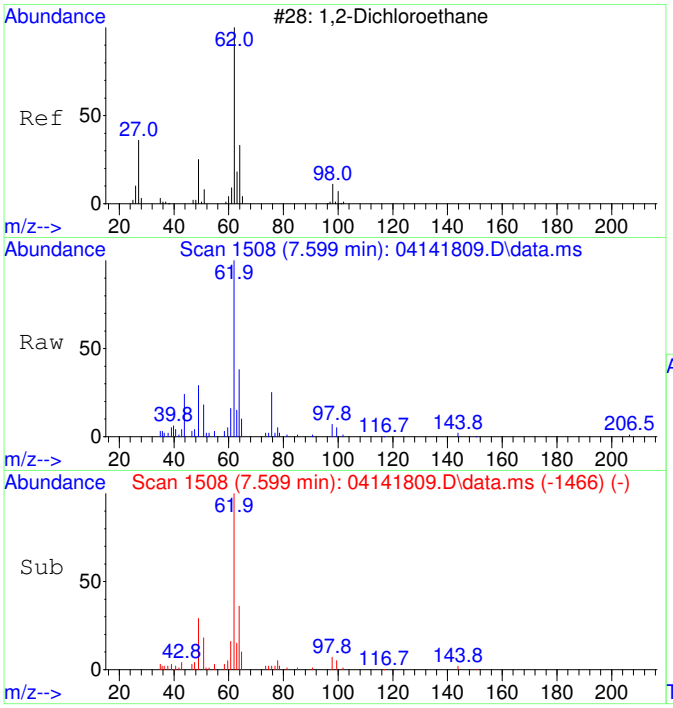


#33
Benzene SCAN
Concen: 5662.12 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 78 Resp: 87417

Ion	Ratio	Lower	Upper
78	100		
77	23.3	5.4	65.4
51	21.6	0.0	47.2
52	19.0	0.0	47.4

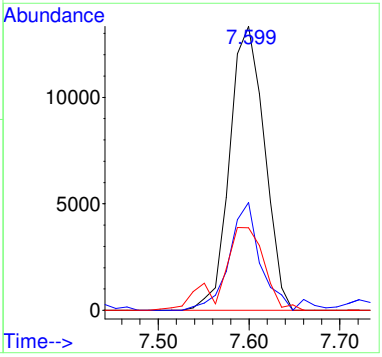


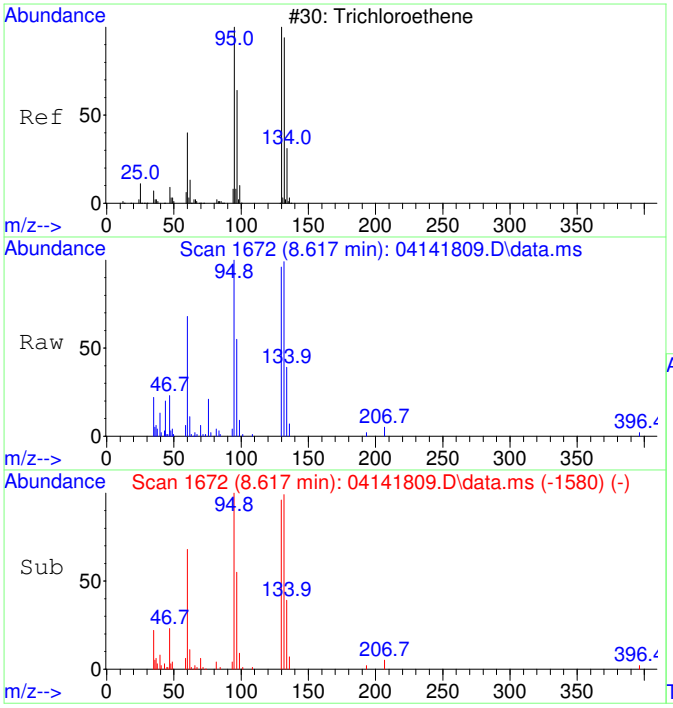


#34
1,2-Dichloroethane SCAN
Concen: 6073.67 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 62 Resp: 35556

Ion	Ratio	Lower	Upper
62	100		
64	33.6	4.4	64.4
49	35.4	1.2	61.2

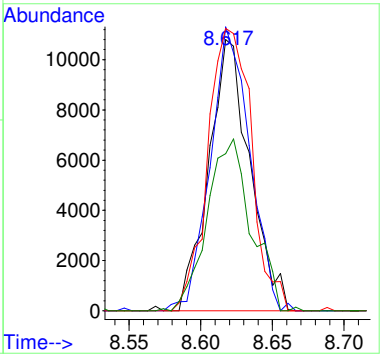


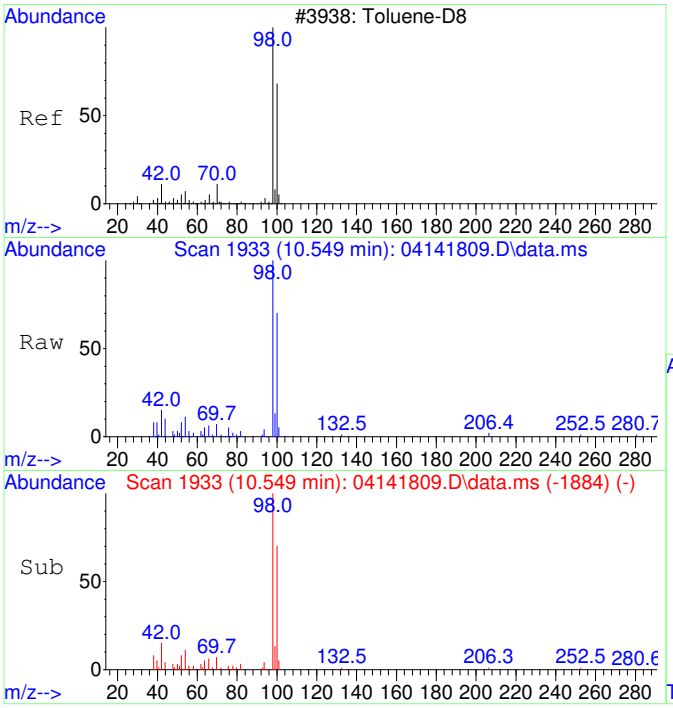


#35
Trichloroethene SCAN
Concen: 5566.94 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:130 Resp: 21594

Ion	Ratio	Lower	Upper
130	100		
95	100.7	71.3	131.3
132	110.2	75.1	135.1
97	67.6	41.3	101.3

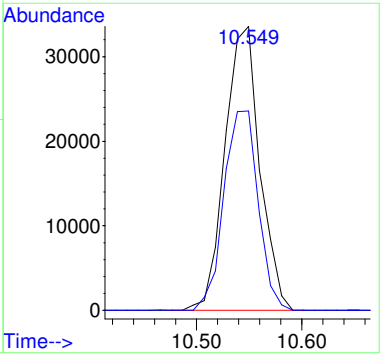


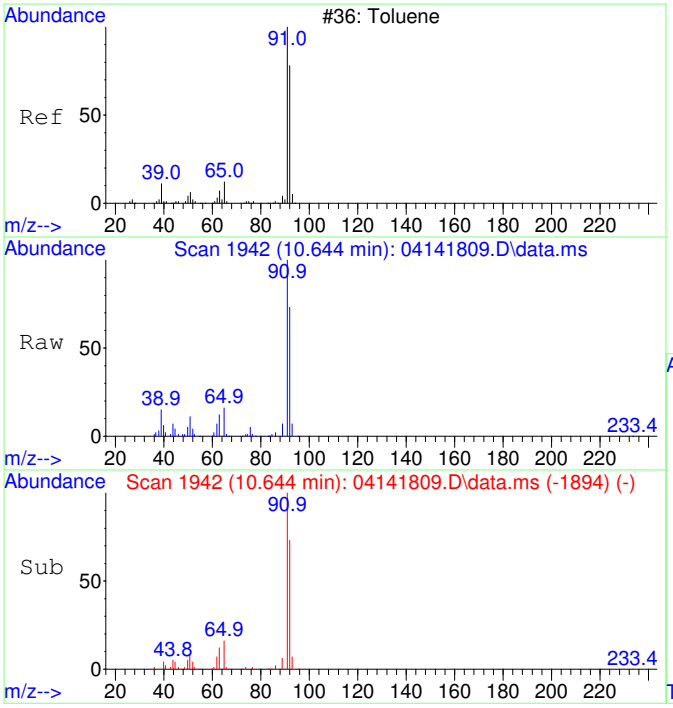


#36
Toluene-d8 SCAN
Concen: 4917.81 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 98 Resp: 77424

Ion	Ratio	Lower	Upper
98	100		
100	69.3	37.3	97.3

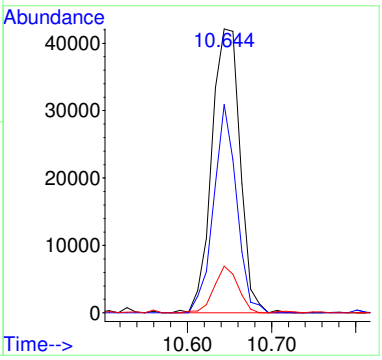


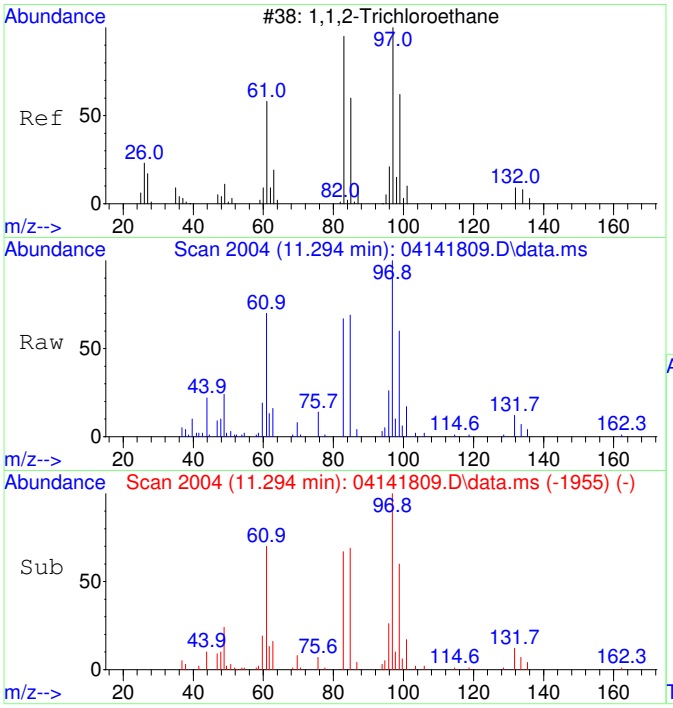


#37
Toluene SCAN
Concen: 5596.82 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 98546

Ion	Ratio	Lower	Upper
91	100		
92	59.5	39.1	99.1
65	14.0	0.0	43.8

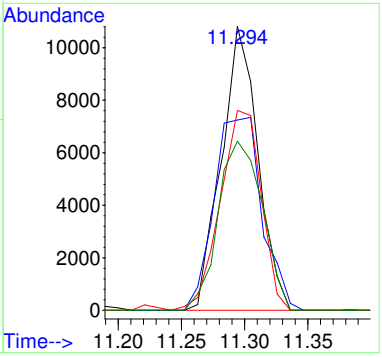


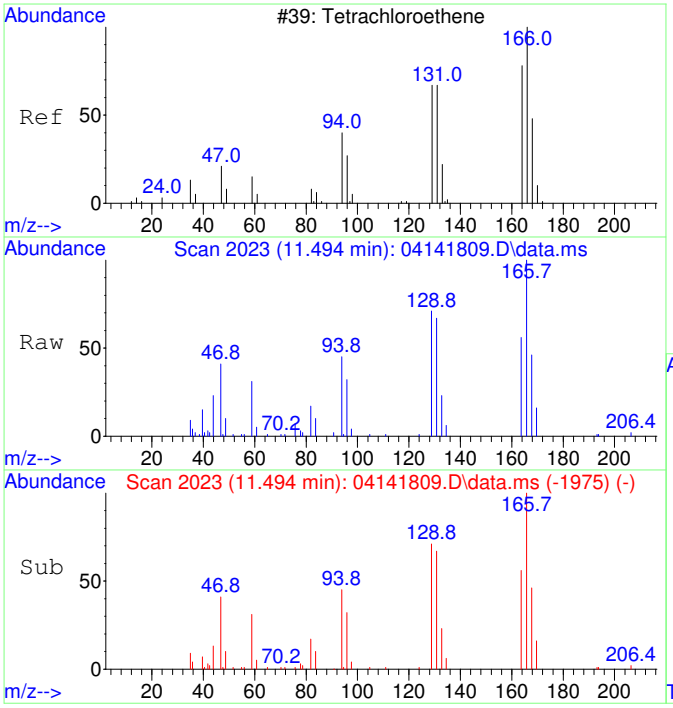


#38
1,1,2-Trichloroethane SCAN
Concen: 4045.97 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 21817

Ion	Ratio	Lower	Upper
97	100		
83	88.9	47.4	107.4
61	78.5	29.7	89.7
99	72.1	26.5	86.5

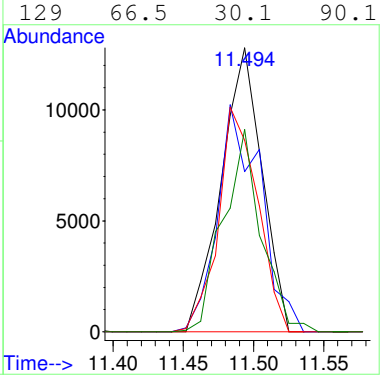


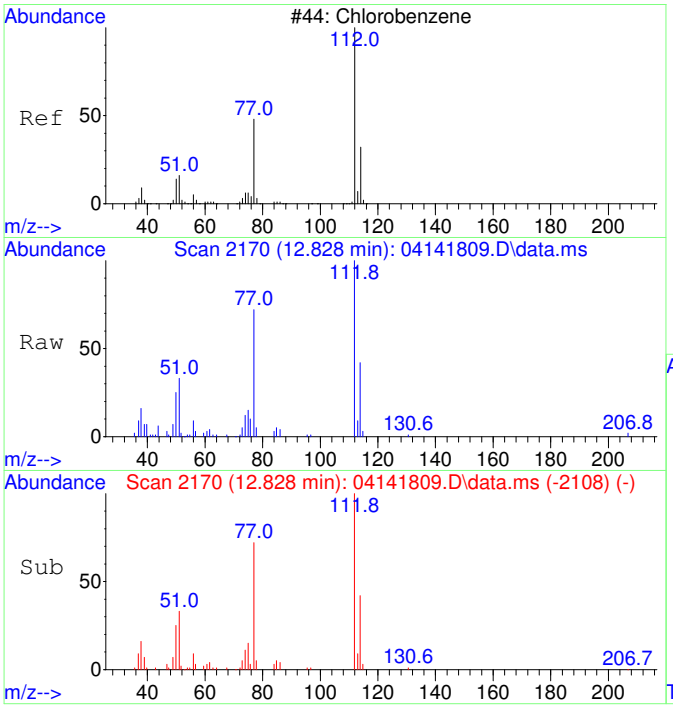


#39
Tetrachloroethene SCAN
Concen: 4540.51 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:166 Resp: 26072

Ion	Ratio	Lower	Upper
166	100		
164	84.2	49.8	109.8
131	75.7	42.0	102.0
129	66.5	30.1	90.1

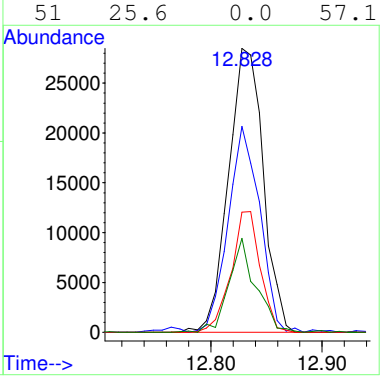


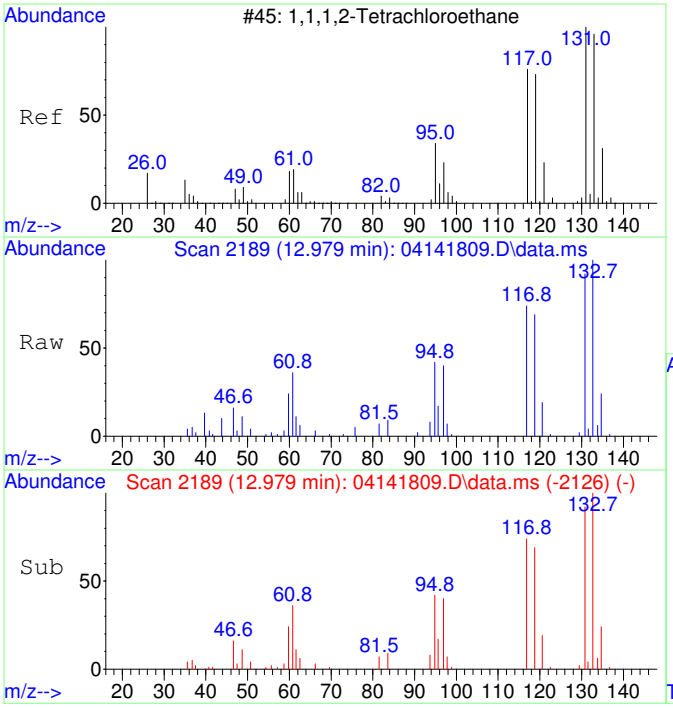


#40
Chlorobenzene SCAN
Concen: 4480.11 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.008 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:112 Resp: 61991

Ion	Ratio	Lower	Upper
112	100		
77	66.1	39.7	99.7
114	35.9	1.2	61.2
51	25.6	0.0	57.1

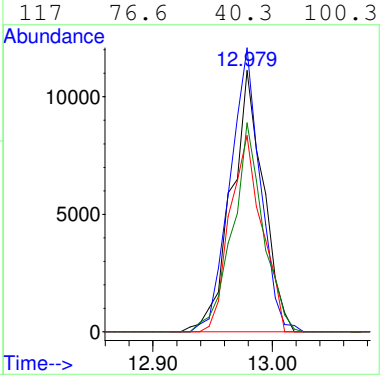


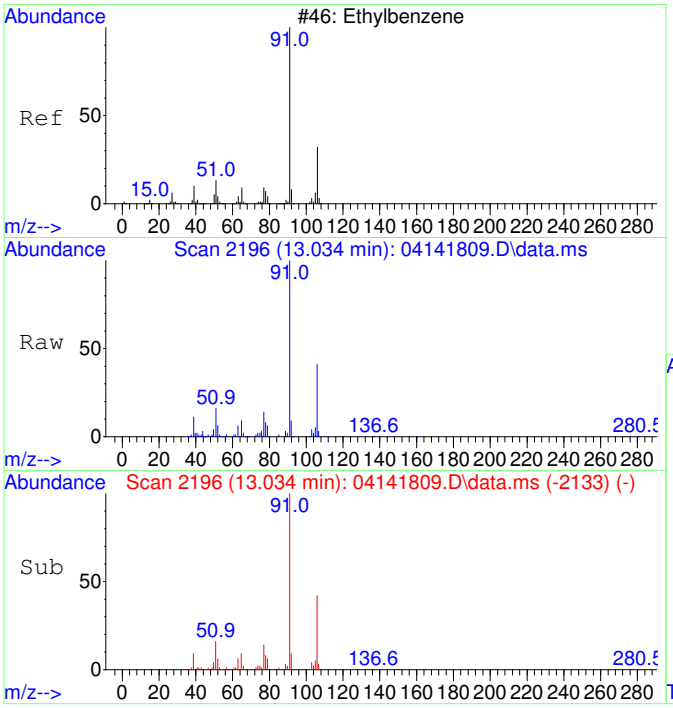


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4601.64 ug/L
RT: 12.979 min Scan# 2189
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:131 Resp: 20700

Ion	Ratio	Lower	Upper
131	100		
133	103.4	78.7	138.7
119	75.4	43.0	103.0
117	76.6	40.3	100.3

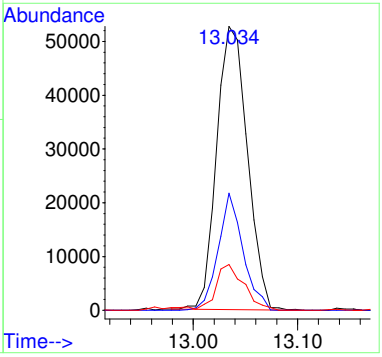


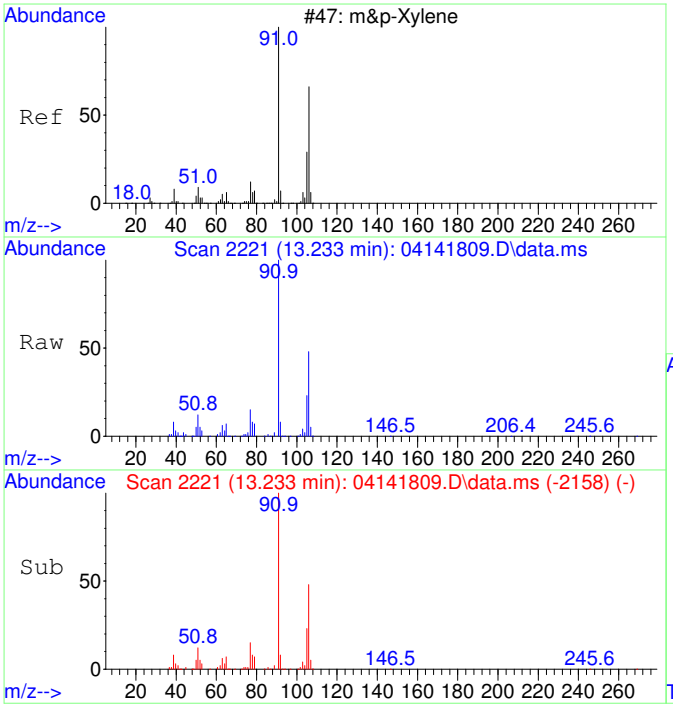


#42
Ethylbenzene SCAN
Concen: 4657.50 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 107495

Ion	Ratio	Lower	Upper
91	100		
106	33.5	1.8	61.8
51	14.7	0.0	45.4

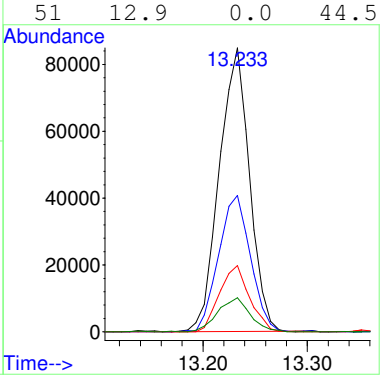


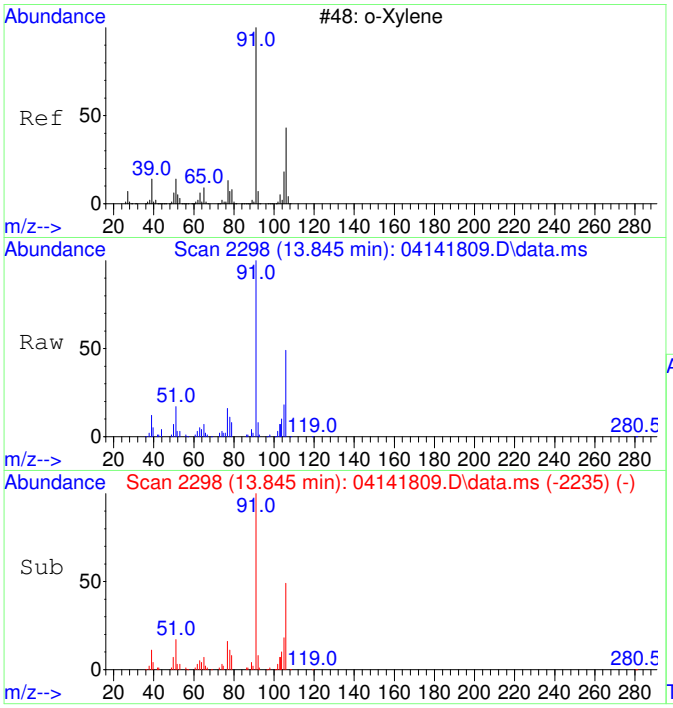


#43
m&p-Xylene SCAN
Concen: 4538.00 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 170448

Ion	Ratio	Lower	Upper
91	100		
106	50.9	14.6	74.6
105	23.3	0.0	52.8
51	12.9	0.0	44.5

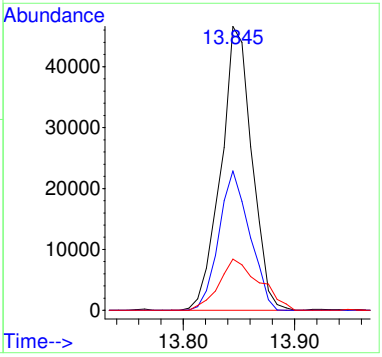


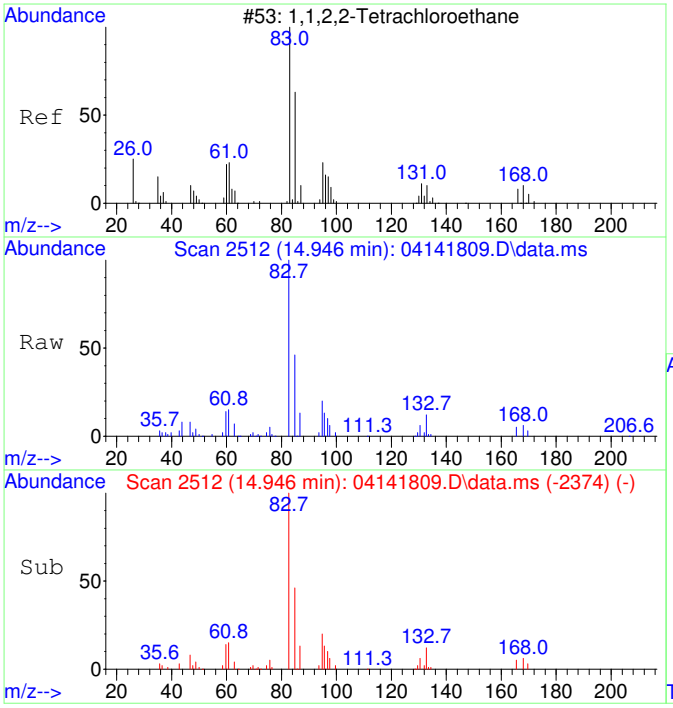


#44
o-Xylene SCAN
Concen: 4438.57 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 90273

Ion	Ratio	Lower	Upper
91	100		
106	48.9	20.2	80.2
105	23.7	0.0	54.9

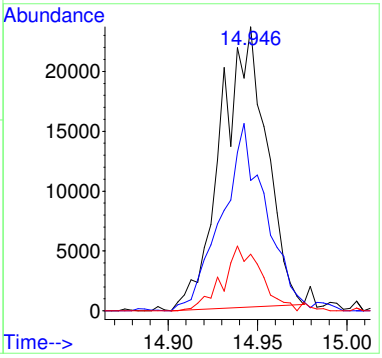


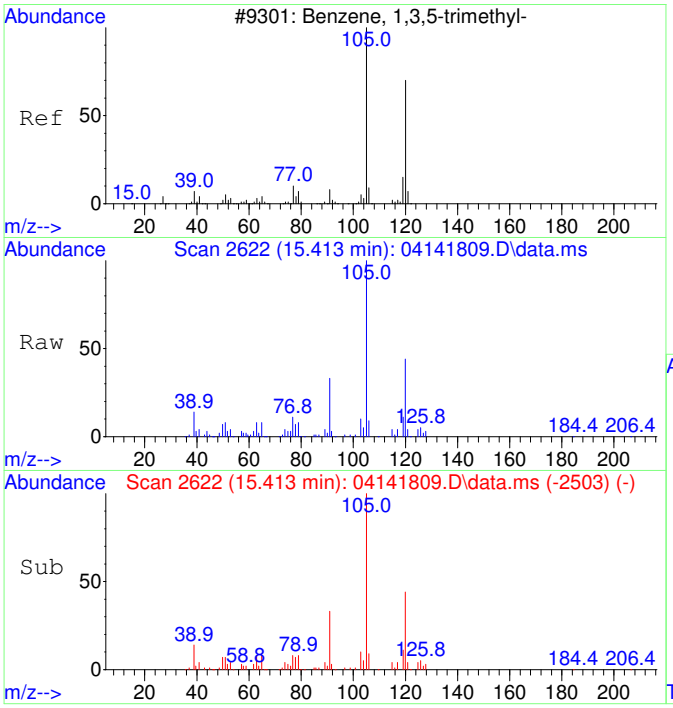


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 3921.65 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 41748

Ion	Ratio	Lower	Upper
83	100		
85	63.1	32.4	92.4
95	19.4	0.0	41.2

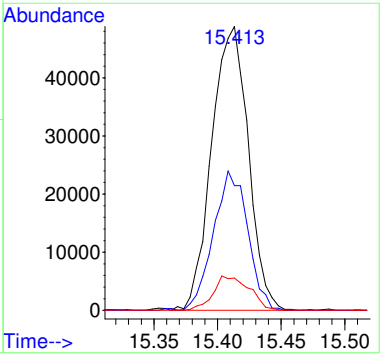


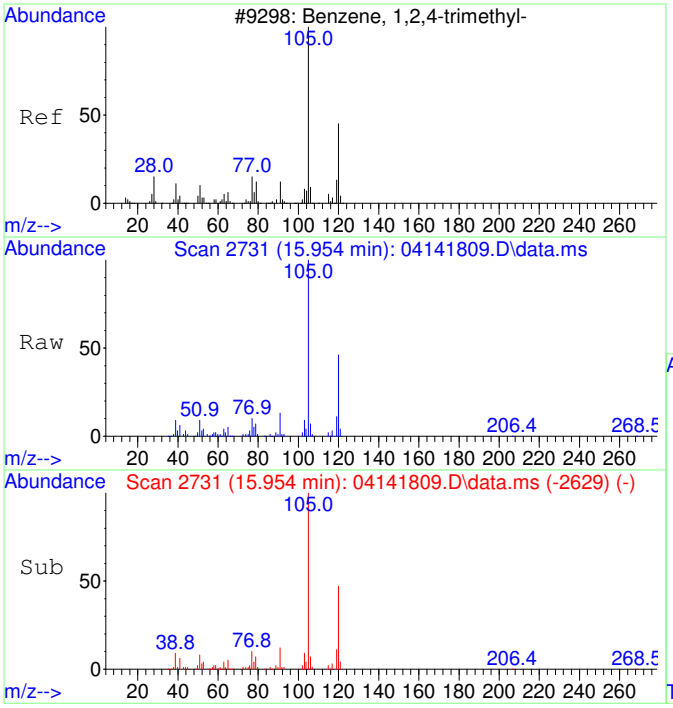


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4204.93 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 98297

Ion	Ratio	Lower	Upper
105	100		
120	46.1	16.1	76.1
119	11.9	0.0	41.8

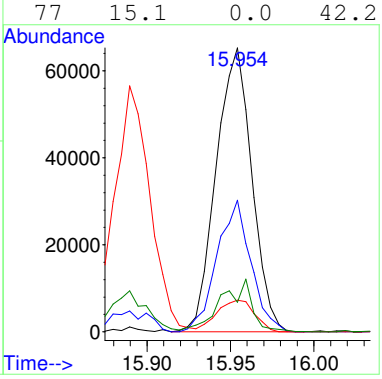


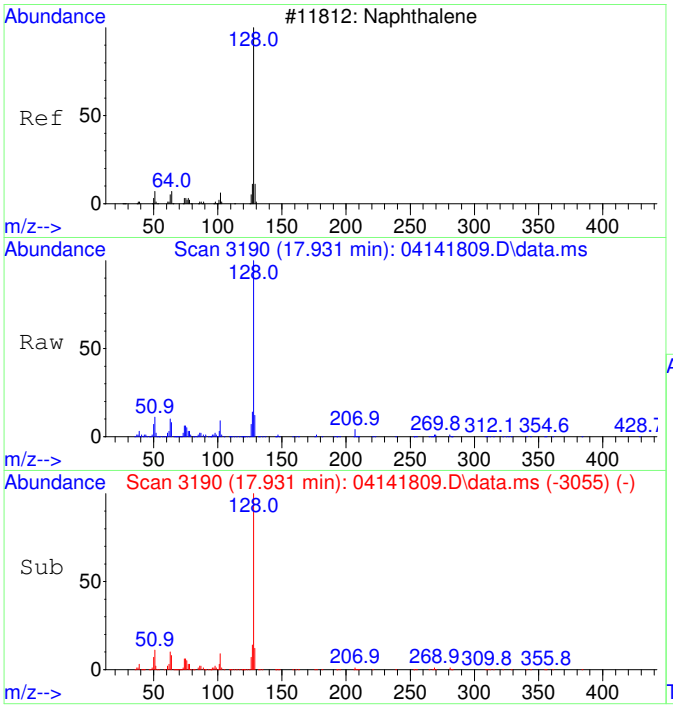


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4114.40 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.006 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 96950

Ion	Ratio	Lower	Upper
105	100		
120	44.0	12.8	72.8
119	10.6	0.0	42.5
77	15.1	0.0	42.2

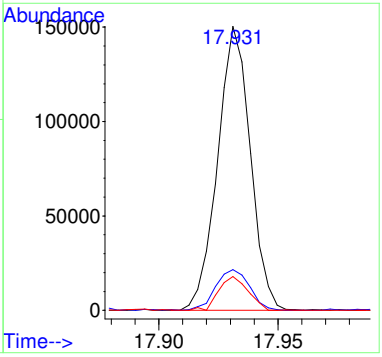


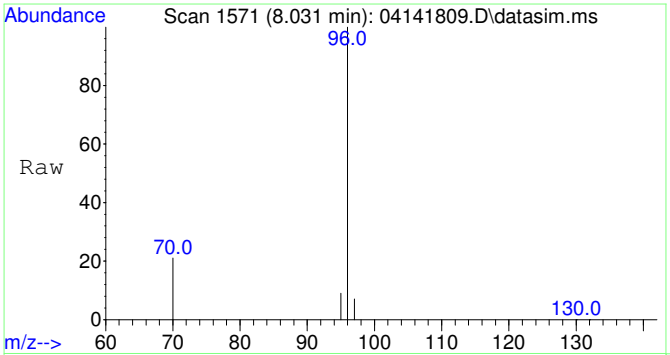


#48
Naphthalene SCAN
Concen: 3785.10 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:128 Resp: 143705

Ion	Ratio	Lower	Upper
128	100		
127	14.8	0.0	45.2
129	10.6	0.0	42.0

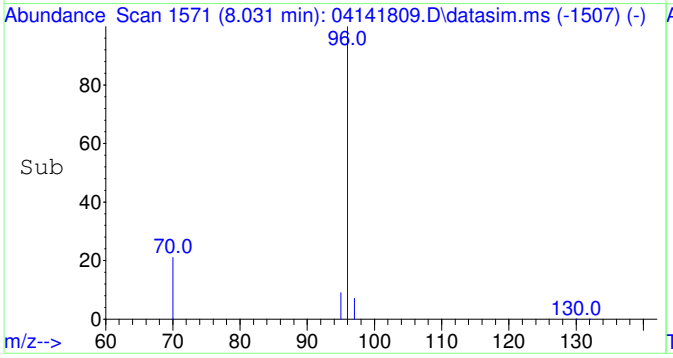


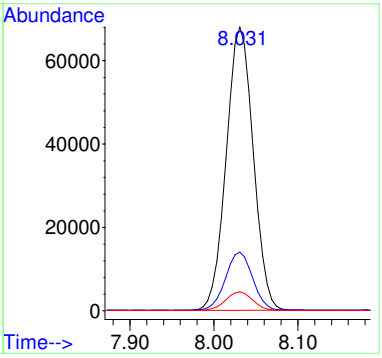


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.031 min Scan# 1571
Delta R.T. 0.006 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 96 Resp: 151656

Ion	Ratio	Lower	Upper
96	100		
70	20.5	0.0	50.7
97	6.6	0.0	36.7





Quantitation Report (QT Reviewed)

Table of Contents

M.I. Performed By:
RH at 9:36 am, Apr 16, 2018

M.I. Approved By:
ZR at 3:11 pm, Apr 16, 2018

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141809.D
Acq On : 14 Apr 2018 14:02
InstName : AG5975C
Operator : RH
Sample : S18D063-SCV1
Misc : 1745051 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 16 09:31:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration

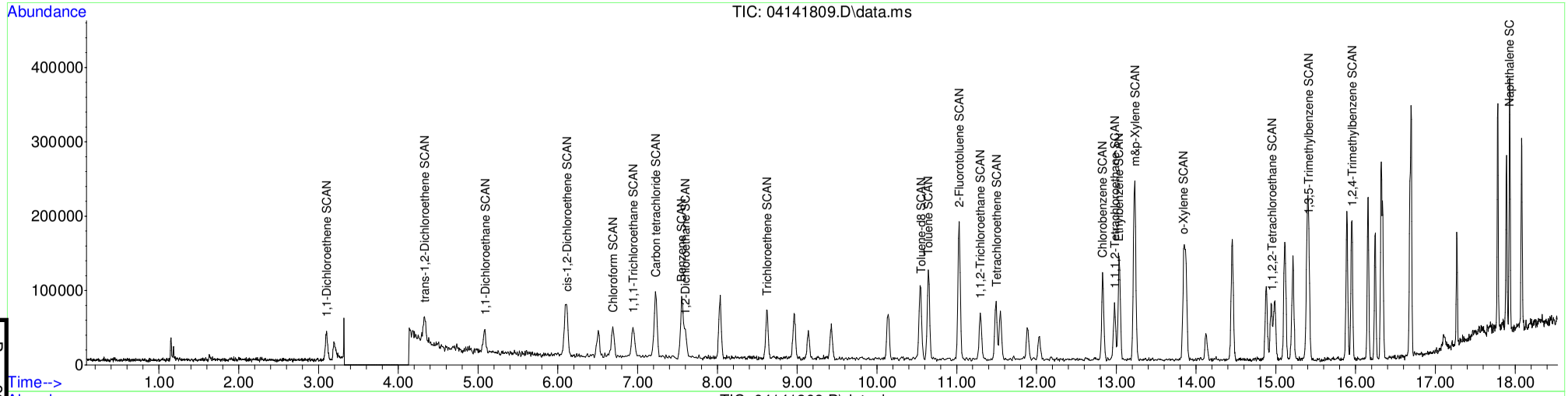
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	11.033	109	185572	5000.00 ug/L	0.00
49) Fluorobenzene	8.031	96	151656	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.540	98	157279	5049.45 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.99%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	44584m	5473.30 ug/L	
3] trans-1,2-Dichloroethene	4.323	61	48400	5814.98 ug/L	100
4] 1,1-Dichloroethane	5.079	63	60911	5496.21 ug/L	100
5] cis-1,2-Dichloroethene	6.108	61	58100	5666.73 ug/L	100
6] Chloroform	6.688	83	63361	5254.67 ug/L	99
7] 1,1,1-Trichloroethane	6.944	97	63501	5393.29 ug/L	100
8] Carbon tetrachloride	7.211	117	56645	5273.37 ug/L	98
9] Benzene	7.552	78	159202	5355.68 ug/L	100
10] 1,2-Dichloroethane	7.588	62	56215	5423.70 ug/L	99
11] Trichloroethene	8.619	130	42284	5162.67 ug/L	100
13] Toluene	10.634	91	183676	4685.17 ug/L	100
14] 1,1,2-Trichloroethane	11.296	97	41328	4771.32 ug/L	100
15] Tetrachloroethene	11.495	166	51413	4784.67 ug/L	100
16] Chlorobenzene	12.829	112	129899	4702.21 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.980	131	44835	4875.23 ug/L	99
18] Ethylbenzene	13.036	91	214930	4829.49 ug/L	100
19] m&p-Xylene	13.226	91	331842	9529.34 ug/L	100
20] o-Xylene	13.846	91	177919	4848.66 ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.944	83	77783	4566.99 ug/L	100
22] 1,3,5-Trimethylbenzene	15.409	105	198123	4613.08 ug/L	100
23] 1,2,4-Trimethylbenzene	15.950	105	198024	4532.74 ug/L	100
24] Naphthalene	17.932	128	328706	4346.24 ug/L	100
25) 2-Fluorotoluene SCAN	11.032	109	99886	5570.54 ug/L	94
26) 1,1-Dichloroethene SCAN	3.100	61	26054	6555.98 ug/L	87
27) trans-1,2-Dichloroethe...	4.328	61	25160	6461.42 ug/L	81
28) 1,1-Dichloroethane SCAN	5.085	63	35334	5930.41 ug/L	95
29) cis-1,2-Dichloroethene...	6.113	61	33275	7114.71 ug/L	87
30) Chloroform SCAN	6.687	83	37111	6576.53 ug/L	87
31) 1,1,1-Trichloroethane ...	6.943	97	29359	4146.00 ug/L	76
32) Carbon tetrachloride SCAN	7.222	117	27661	5430.92 ug/L	84
33) Benzene SCAN	7.551	78	87417	5662.12 ug/L	86
34) 1,2-Dichloroethane SCAN	7.599	62	35556	6073.67 ug/L	96
35) Trichloroethene SCAN	8.617	130	21594	5566.94 ug/L	97
36) Toluene-d8 SCAN	10.549	98	77424	4917.81 ug/L	98
37) Toluene SCAN	10.644	91	98546	5596.82 ug/L	90
38) 1,1,2-Trichloroethane ...	11.294	97	21817	4045.97 ug/L	81
39) Tetrachloroethene SCAN	11.494	166	26072	4540.51 ug/L	94
40) Chlorobenzene SCAN	12.828	112	61991	4480.11 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.979	131	20700	4601.64 ug/L	95
42) Ethylbenzene SCAN	13.034	91	107495	4657.50 ug/L	97
43) m&p-Xylene SCAN	13.233	91	170448	4538.00 ug/L	94
44) o-Xylene SCAN	13.845	91	90273	4438.57 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.946	83	41748	3921.65 ug/L	96
46) 1,3,5-Trimethylbenzene...	15.413	105	98297	4204.93 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.954	105	96950	4114.40 ug/L	97
48) Naphthalene SCAN	17.931	128	143705	3785.10 ug/L	98

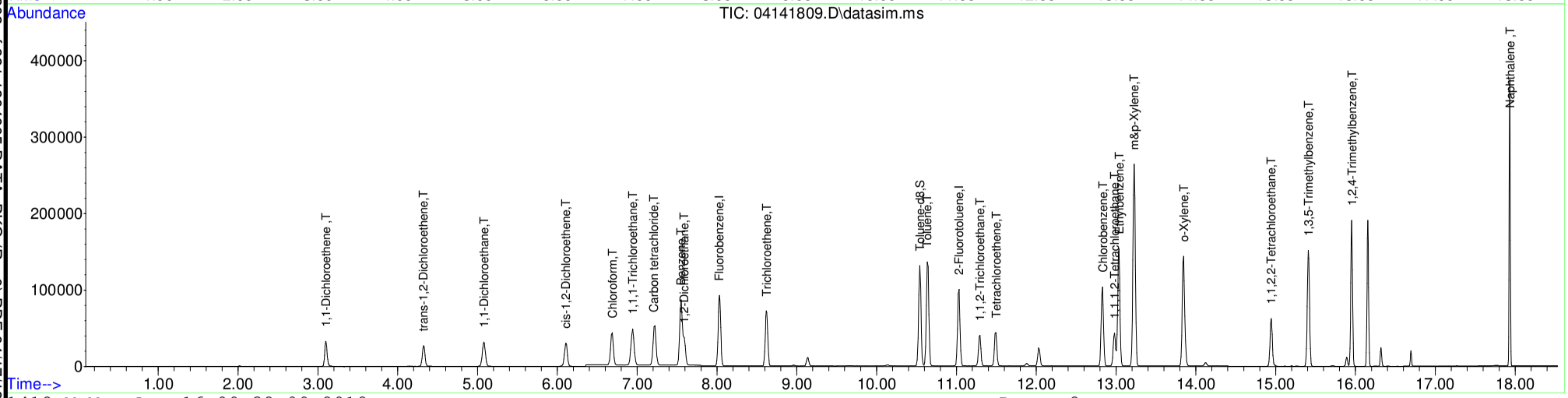
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2018\041418\
Data File : 04141809.D
Acq On : 14 Apr 2018 14:02
InstName : AG5975C
Operator : RH
Sample : S18D063-SCV1
Misc : 1745051 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 16 09:31:45 2018
Quant Method : C:\msdchem\1\Ravioli Methods\2018\041418.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Apr 16 09:30:40 2018
Response via : Initial Calibration





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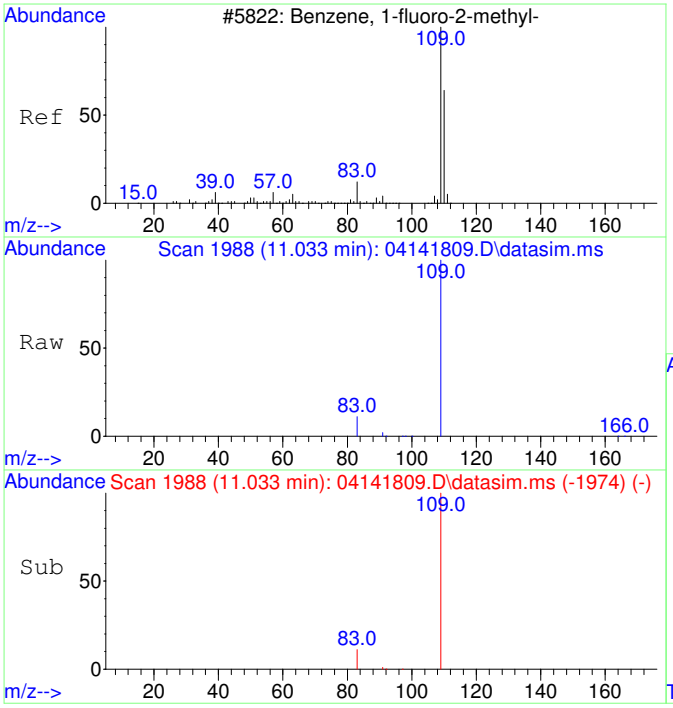
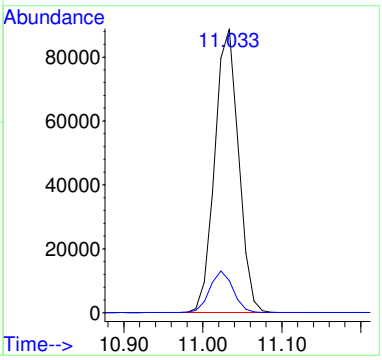
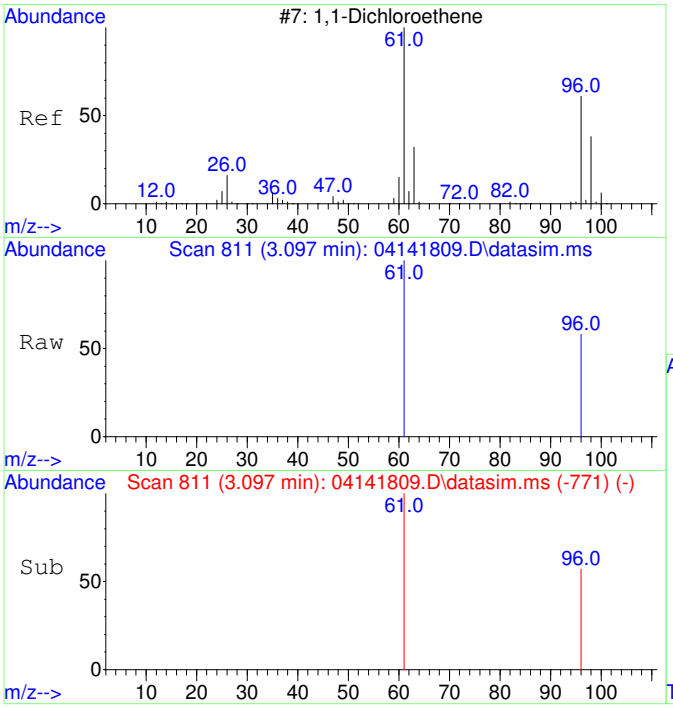


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 11.033 min Scan# 1988
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:109 Resp: 185572

Ion	Ratio	Lower	Upper
109	100		
83	14.3	0.0	44.4

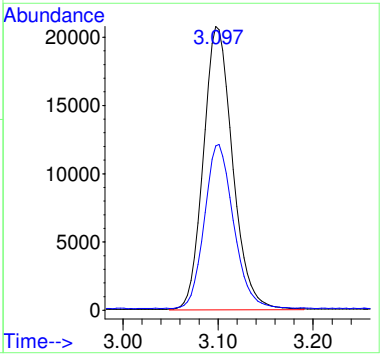


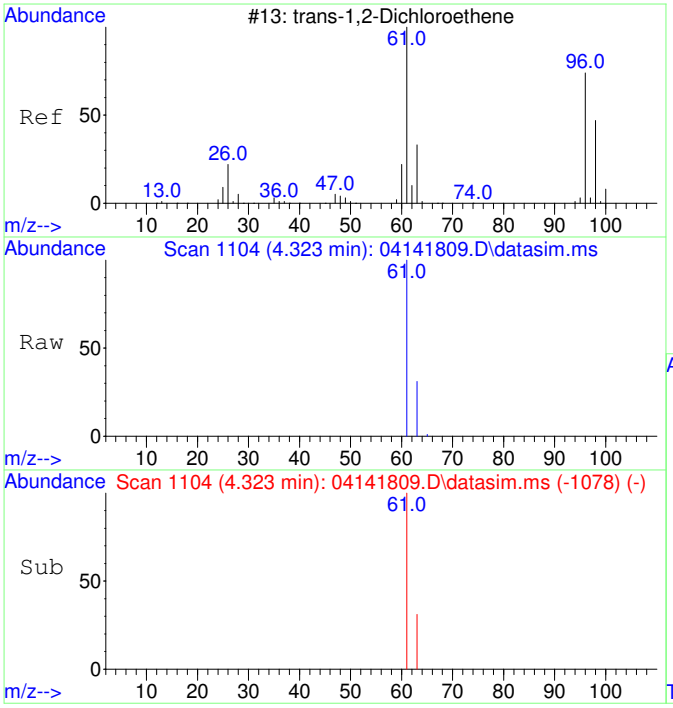


#2
1,1-Dichloroethene
Concen: 5473.30 ug/L m
RT: 3.097 min Scan# 811
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 44584

Ion	Ratio	Lower	Upper
61	100		
96	57.0	26.1	86.1

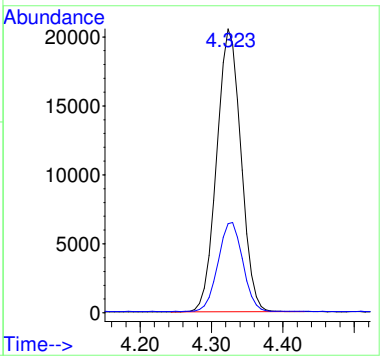


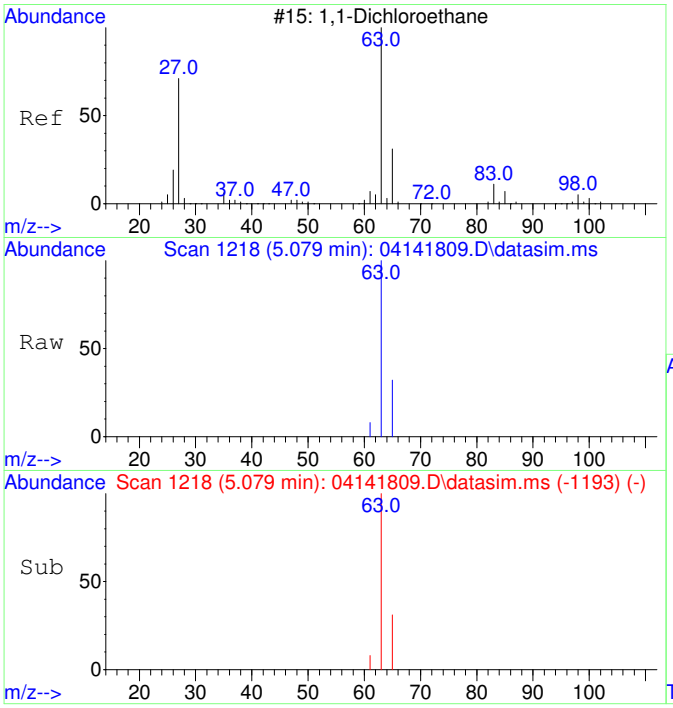


#3
trans-1,2-Dichloroethene
Concen: 5814.98 ug/L
RT: 4.323 min Scan# 1104
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 48400

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.0	62.0

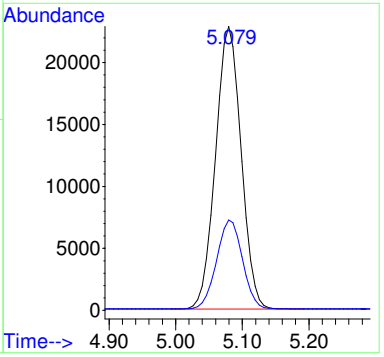


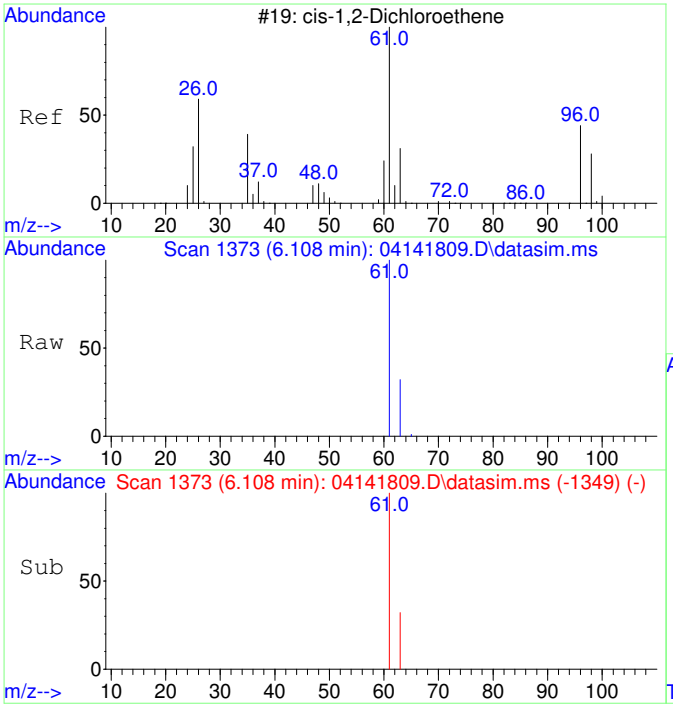


#4
1,1-Dichloroethane
Concen: 5496.21 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 63 Resp: 60911

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.8	61.8

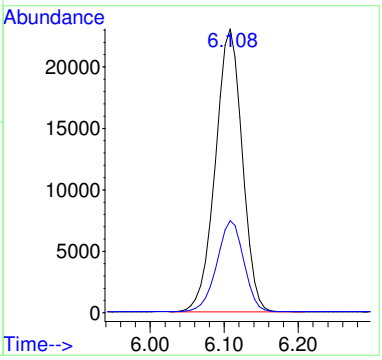


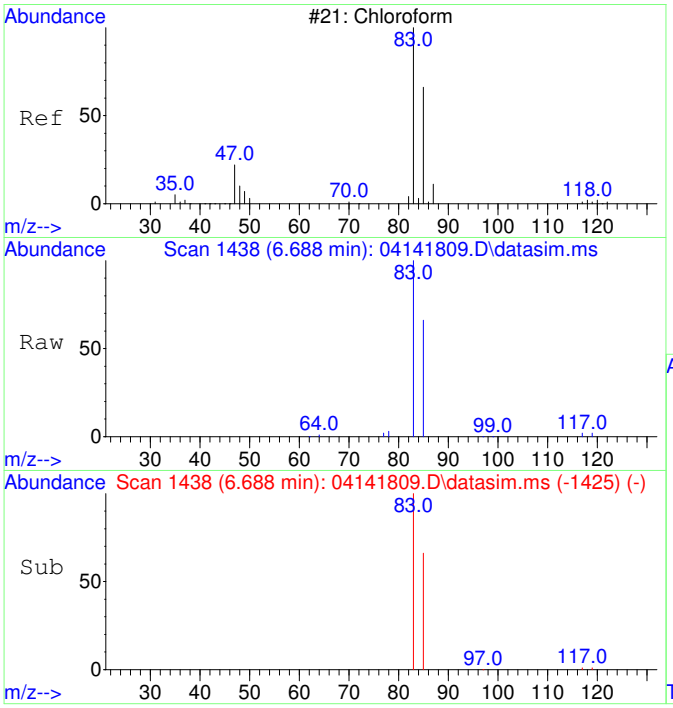


#5
cis-1,2-Dichloroethene
Concen: 5666.73 ug/L
RT: 6.108 min Scan# 1373
Delta R.T. 0.007 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 58100

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.0	62.0

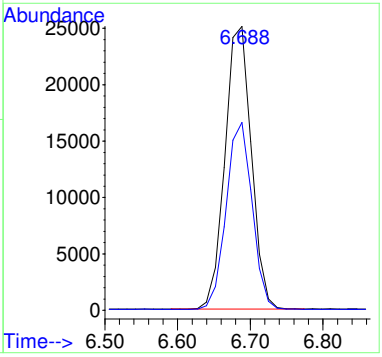


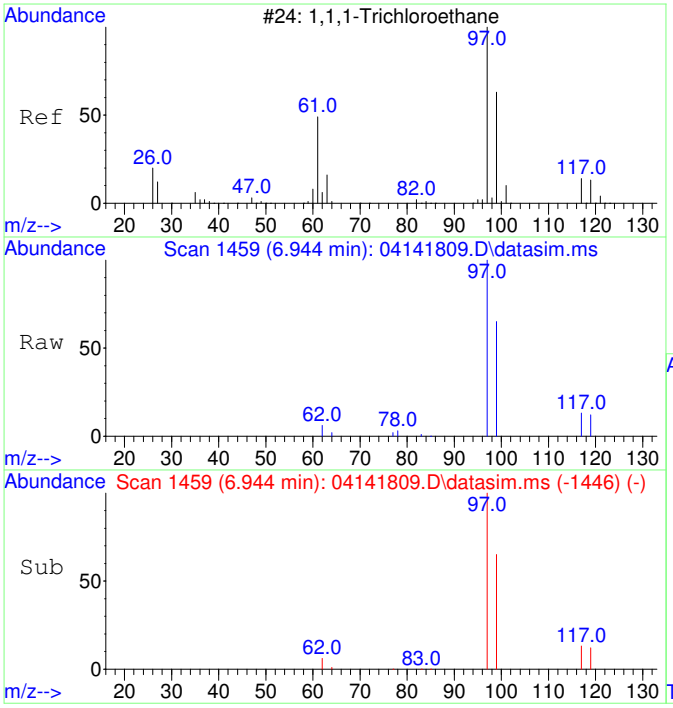


#6
Chloroform
Concen: 5254.67 ug/L
RT: 6.688 min Scan# 1438
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 63361

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.2	94.2

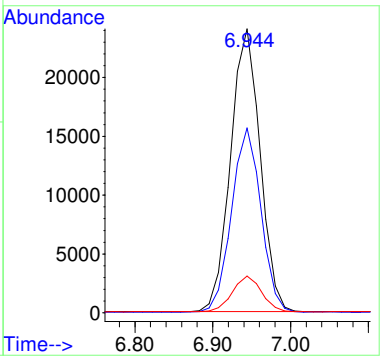


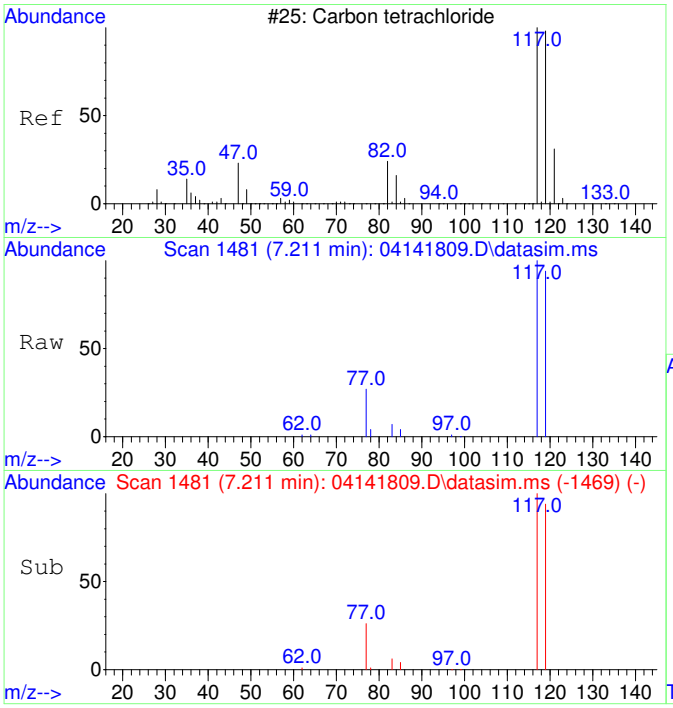


#7
1,1,1-Trichloroethane
Concen: 5393.29 ug/L
RT: 6.944 min Scan# 1459
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 63501

Ion	Ratio	Lower	Upper
97	100		
99	64.6	34.5	94.5
117	12.4	0.0	42.6

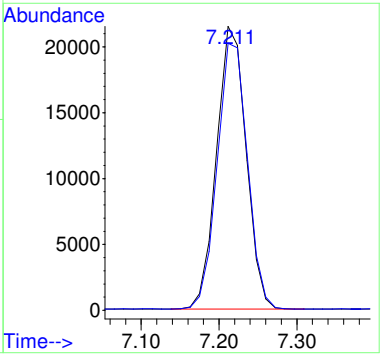


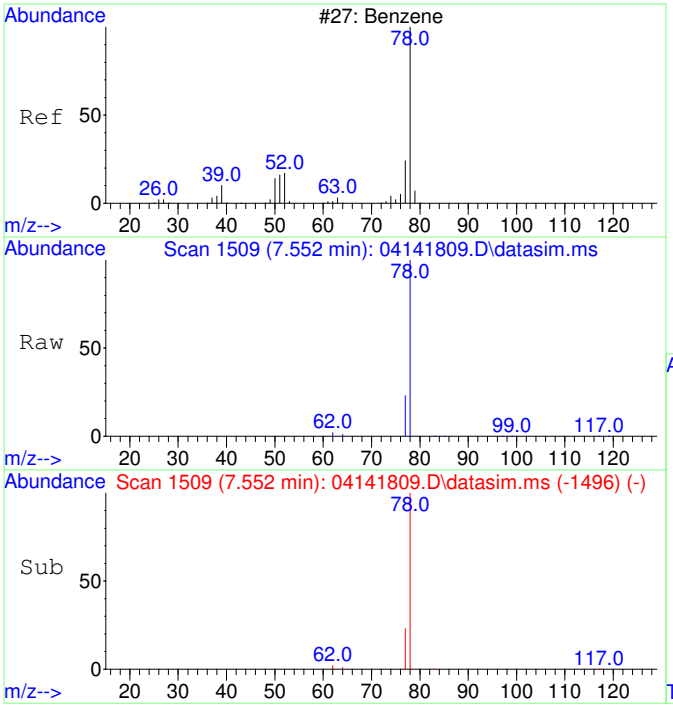


#8
Carbon tetrachloride
Concen: 5273.37 ug/L
RT: 7.211 min Scan# 1481
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:117 Resp: 56645

Ion	Ratio	Lower	Upper
117	100		
119	96.1	64.5	124.5

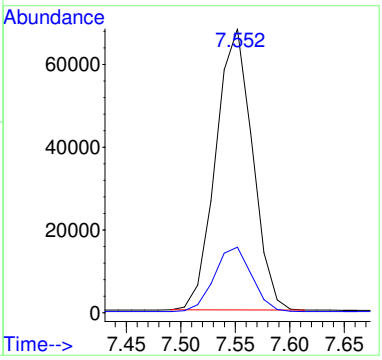


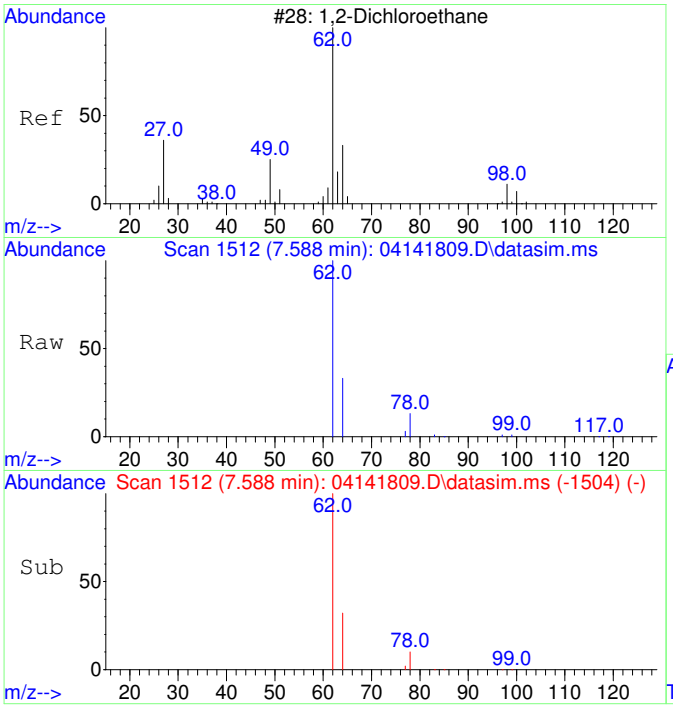


#9
Benzene
Concen: 5355.68 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 78 Resp: 159202

Ion	Ratio	Lower	Upper
78	100		
77	23.4	0.0	53.6

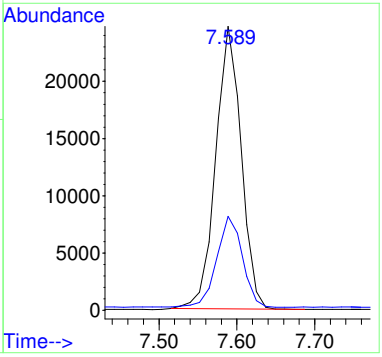


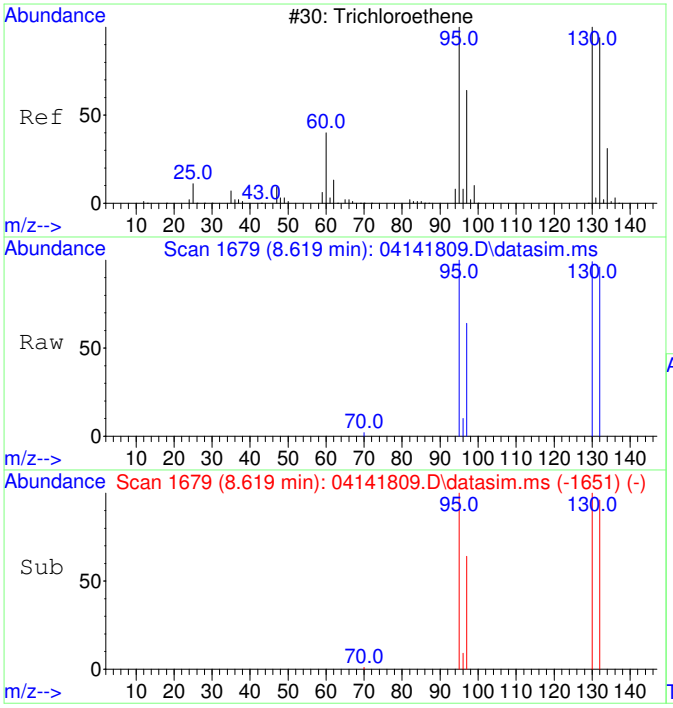


#10
1,2-Dichloroethane
Concen: 5423.70 ug/L
RT: 7.588 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 62 Resp: 56215

Ion	Ratio	Lower	Upper
62	100		
64	32.2	1.8	61.8

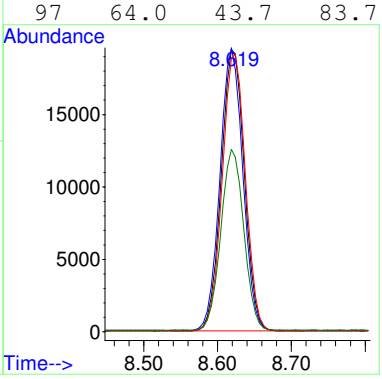


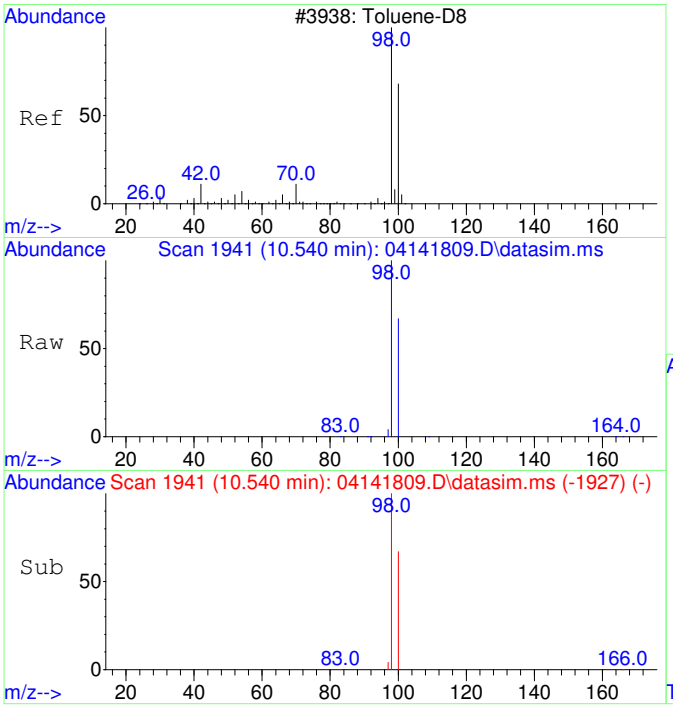


#11
Trichloroethene
Concen: 5162.67 ug/L
RT: 8.619 min Scan# 1679
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:130 Resp: 42284

Ion	Ratio	Lower	Upper
130	100		
95	99.2	68.8	128.8
132	98.6	78.6	118.6
97	64.0	43.7	83.7

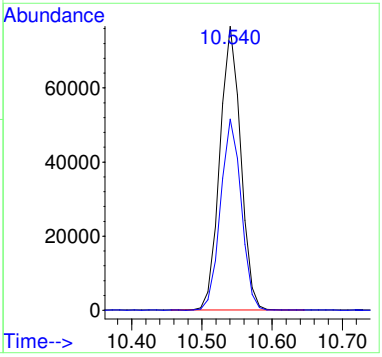


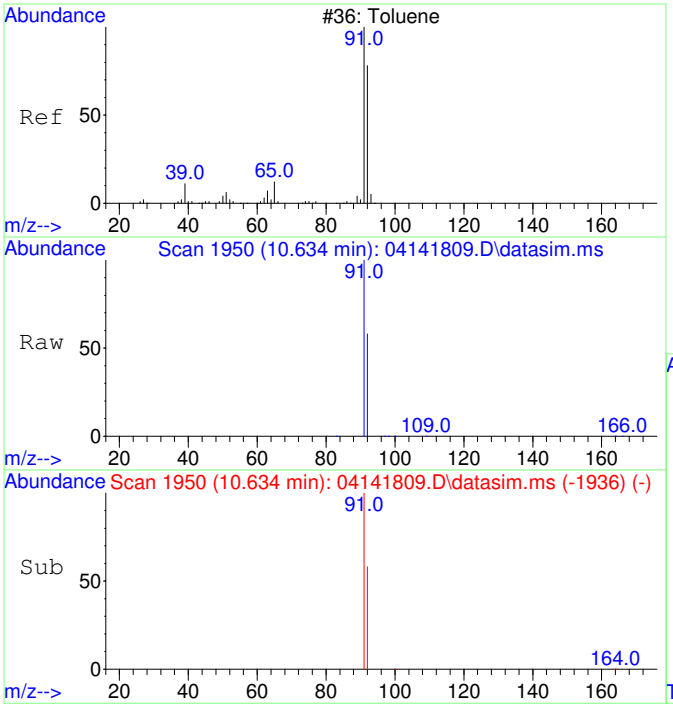


#12
Toluene-d8
Concen: 5049.45 ug/L
RT: 10.540 min Scan# 1941
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 98 Resp: 157279

Ion	Ratio	Lower	Upper
98	100		
100	67.0	36.9	96.9

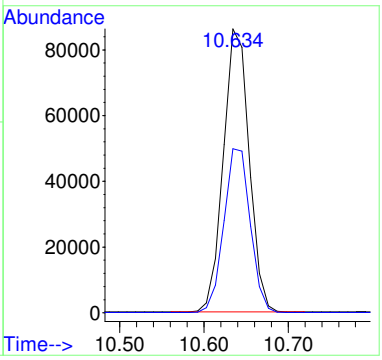


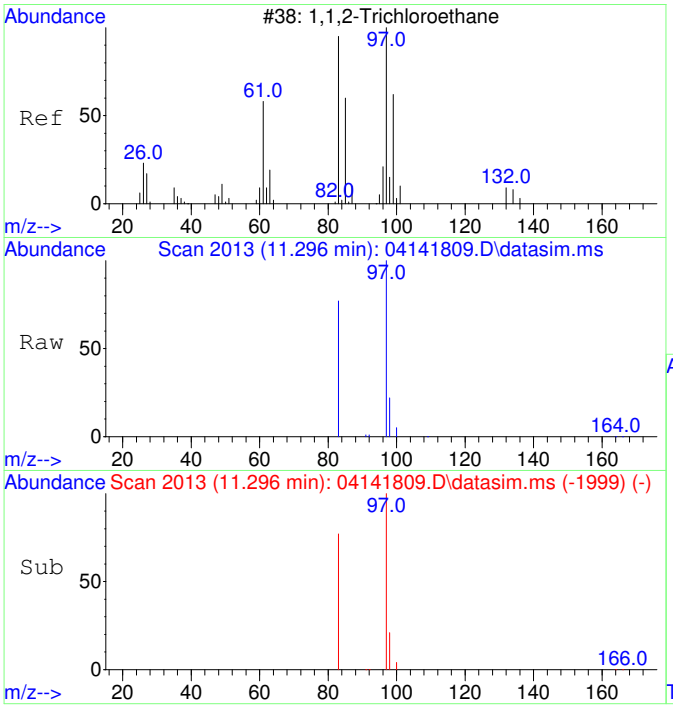


#13
Toluene
Concen: 4685.17 ug/L
RT: 10.634 min Scan# 1950
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 183676

Ion	Ratio	Lower	Upper
91	100		
92	59.1	28.8	88.8

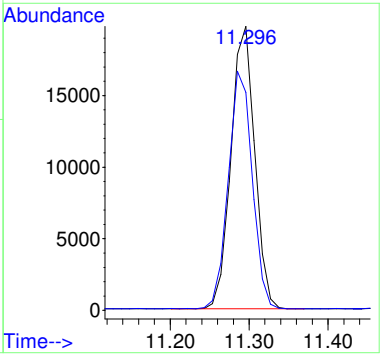


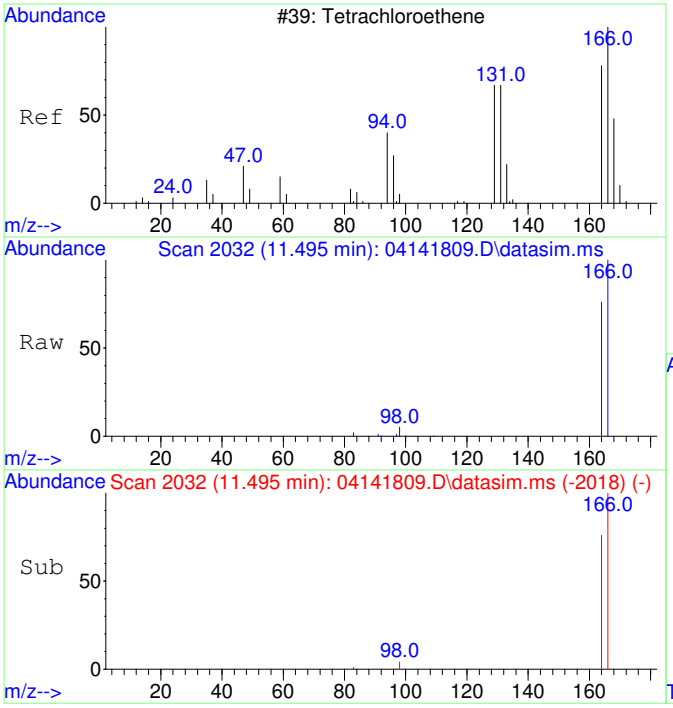


#14
1,1,2-Trichloroethane
Concen: 4771.32 ug/L
RT: 11.296 min Scan# 2013
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 41328

Ion	Ratio	Lower	Upper
97	100		
83	84.6	54.3	114.3

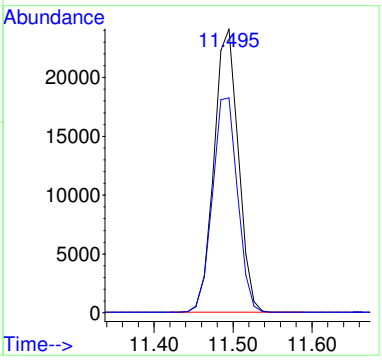


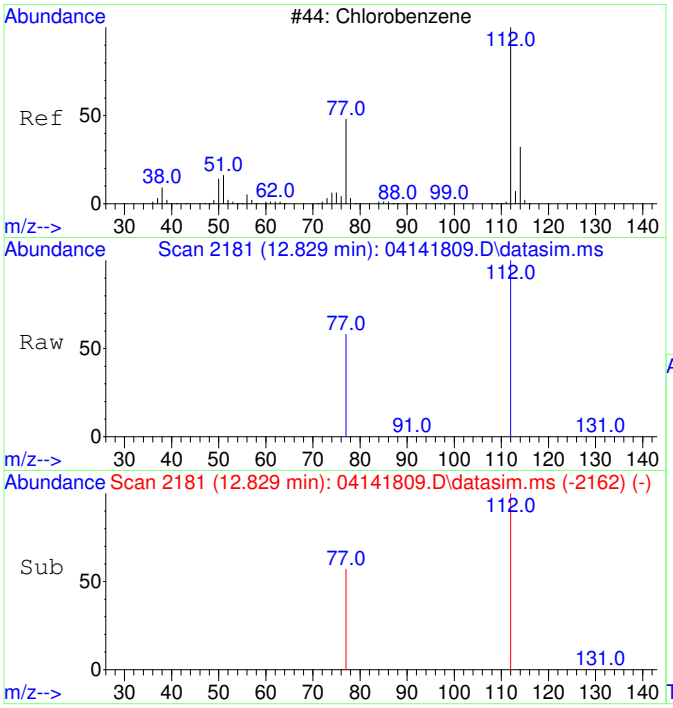


#15
Tetrachloroethene
Concen: 4784.67 ug/L
RT: 11.495 min Scan# 2032
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:166 Resp: 51413

Ion	Ratio	Lower	Upper
166	100		
164	78.1	48.0	108.0

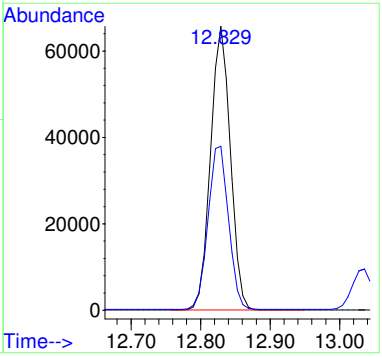


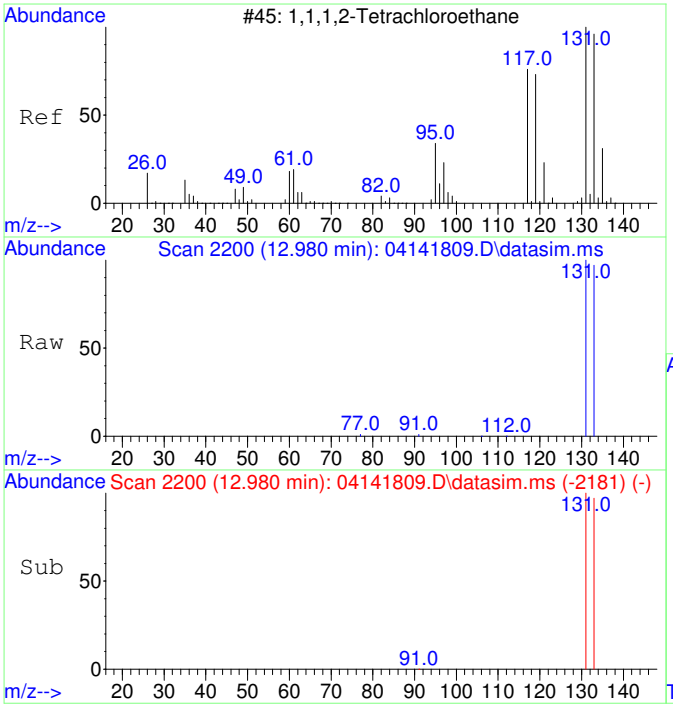


#16
Chlorobenzene
Concen: 4702.21 ug/L
RT: 12.829 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:112 Resp: 129899

Ion	Ratio	Lower	Upper
112	100		
77	59.4	29.4	89.4

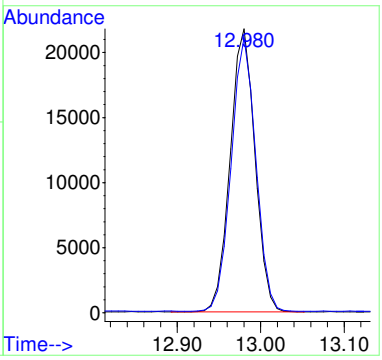


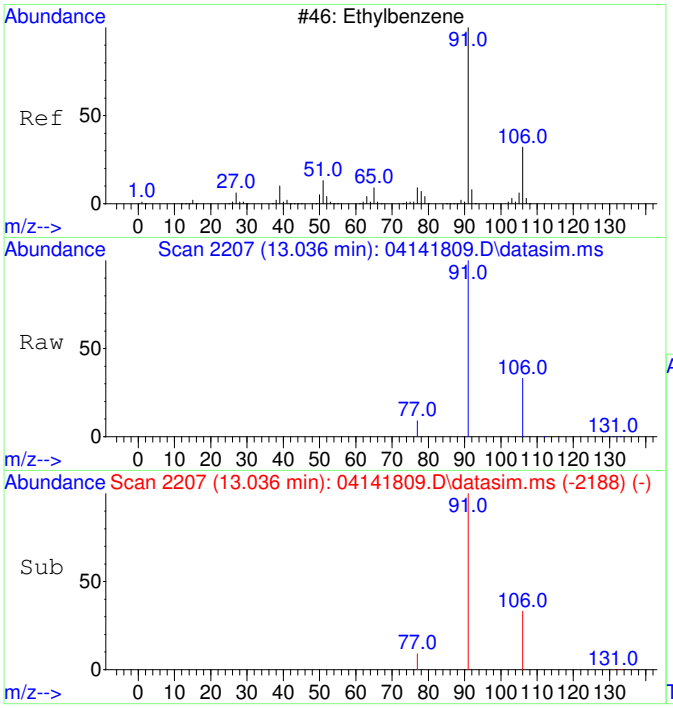


#17
1,1,1,2-Tetrachloroethane
Concen: 4875.23 ug/L
RT: 12.980 min Scan# 2200
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:131 Resp: 44835

Ion	Ratio	Lower	Upper
131	100		
133	96.1	65.1	125.1

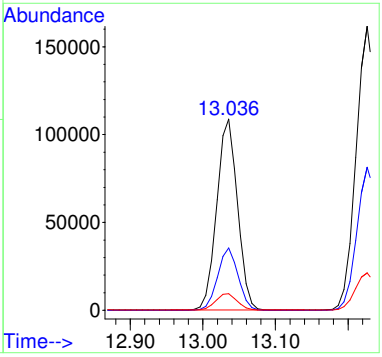


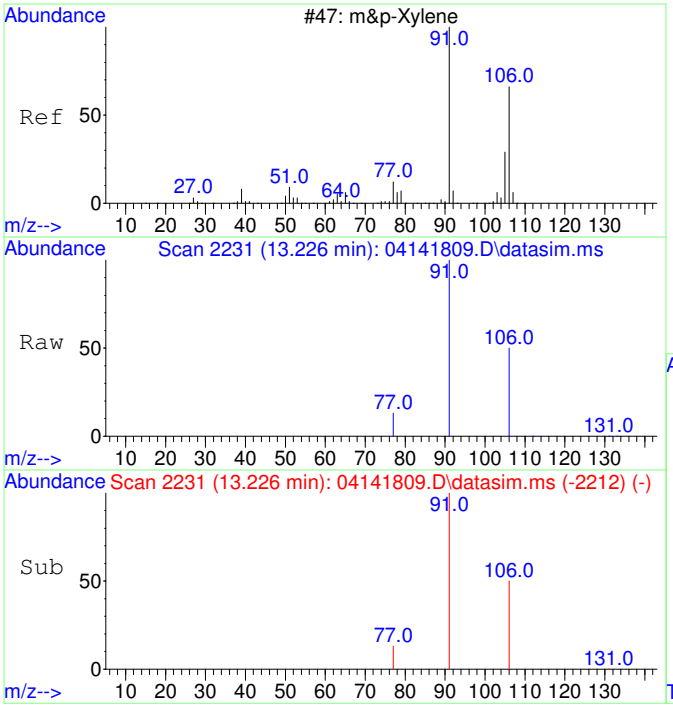


#18
Ethylbenzene
Concen: 4829.49 ug/L
RT: 13.036 min Scan# 2207
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 214930

Ion	Ratio	Lower	Upper
91	100		
106	32.1	1.8	61.8
77	8.7	0.0	38.7

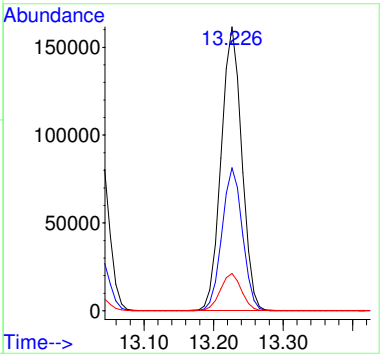


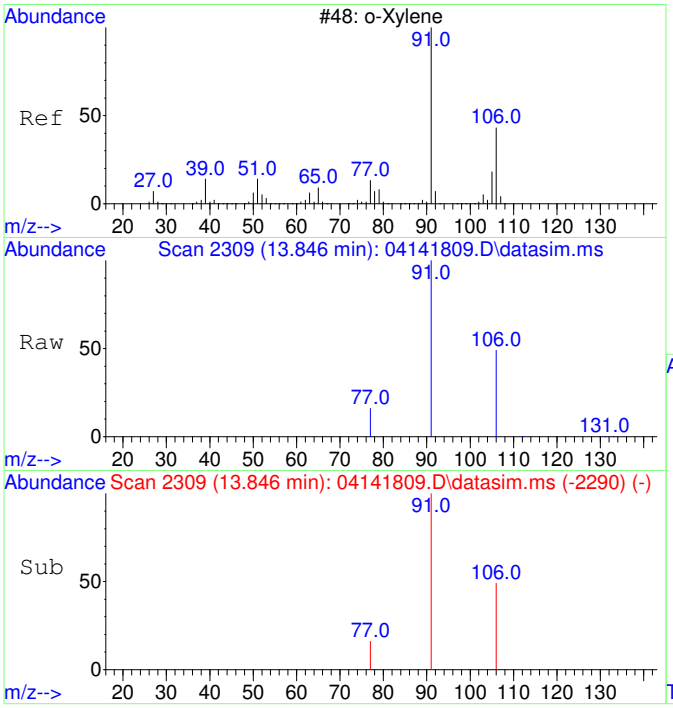


#19
m&p-Xylene
Concen: 9529.34 ug/L
RT: 13.226 min Scan# 2231
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 331842

Ion	Ratio	Lower	Upper
91	100		
106	50.2	20.0	80.0
77	13.2	0.0	43.4

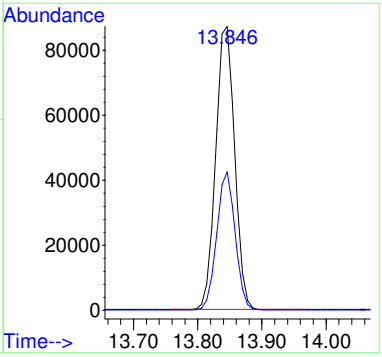


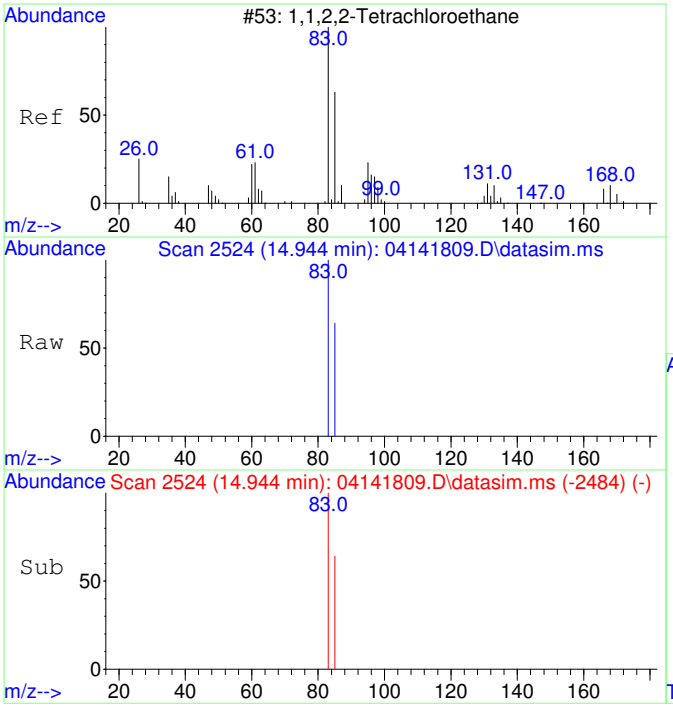


#20
o-Xylene
Concen: 4848.66 ug/L
RT: 13.846 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 177919

Ion	Ratio	Lower	Upper
91	100		
106	47.4	16.9	76.9

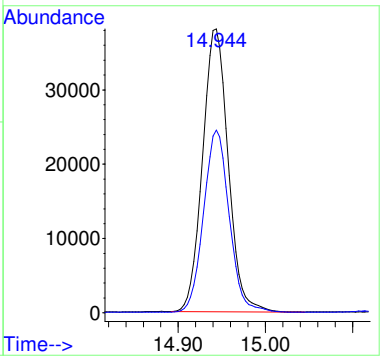


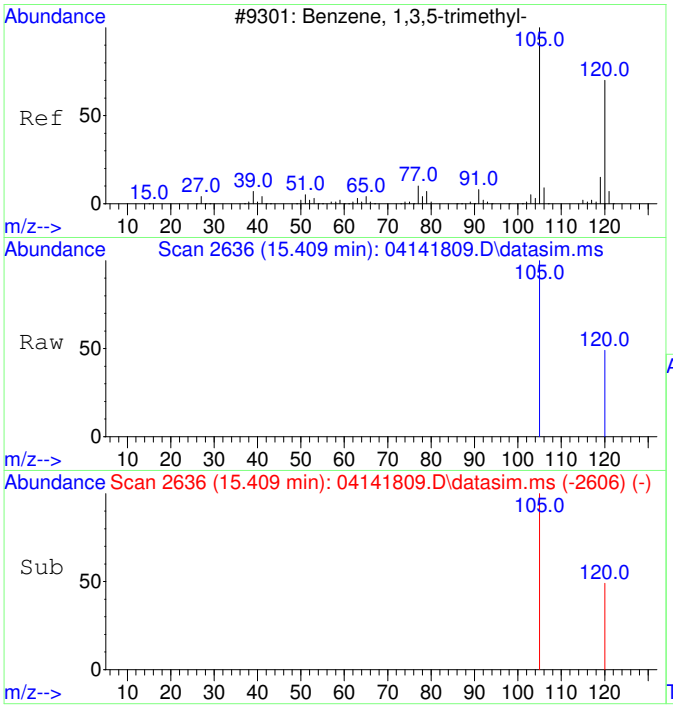


#21
1,1,2,2-Tetrachloroethane
Concen: 4566.99 ug/L
RT: 14.944 min Scan# 2524
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 77783

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.3	94.3

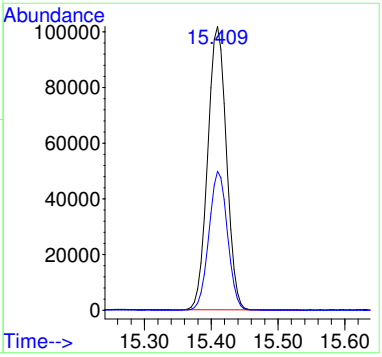


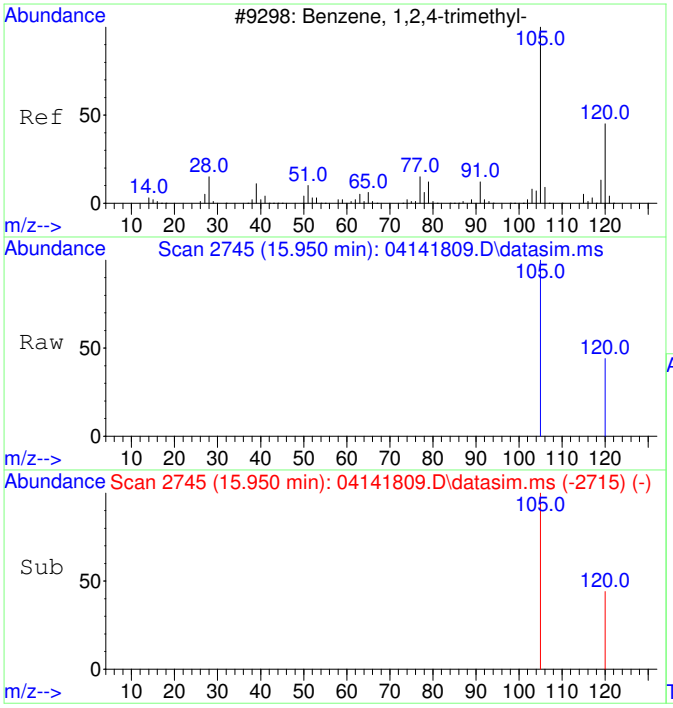


#22
1,3,5-Trimethylbenzene
Concen: 4613.08 ug/L
RT: 15.409 min Scan# 2636
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 198123

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.1	78.1

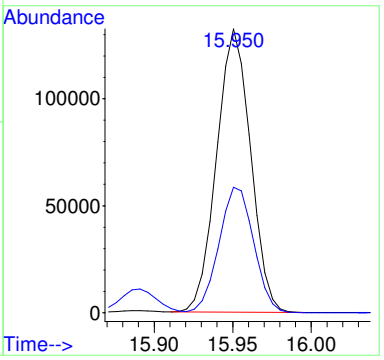


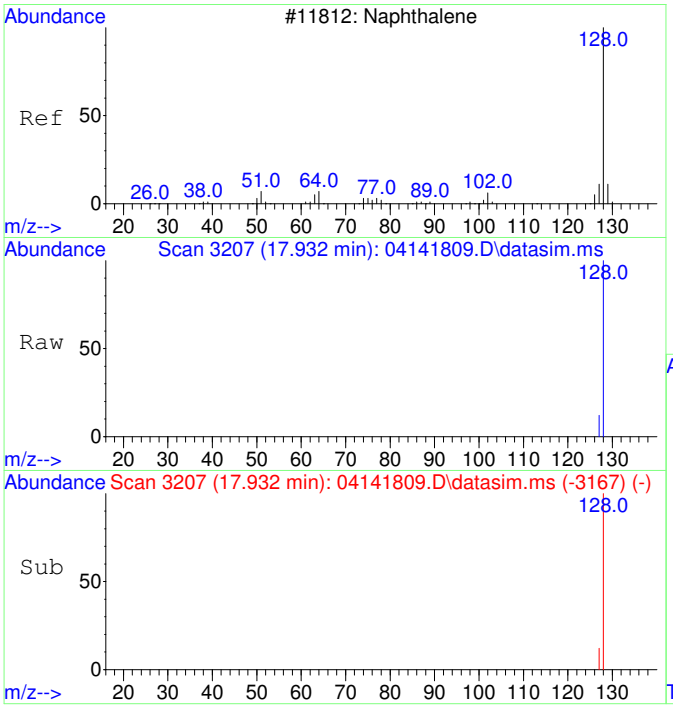


#23
1,2,4-Trimethylbenzene
Concen: 4532.74 ug/L
RT: 15.950 min Scan# 2745
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 198024

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.5	74.5

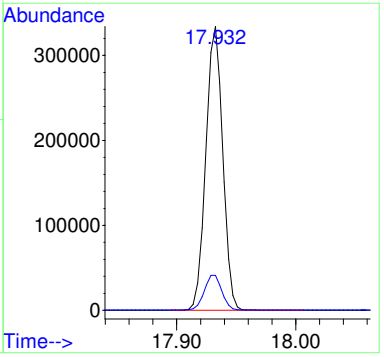


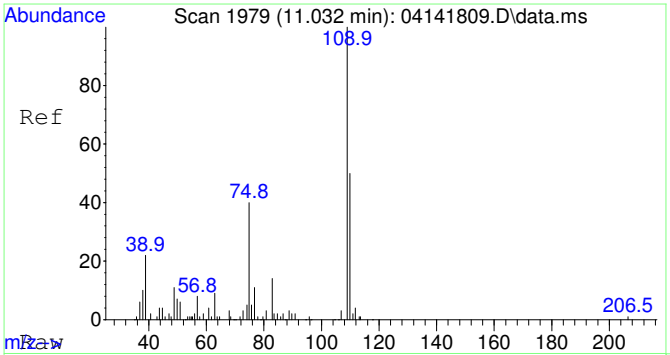


#24
Naphthalene
Concen: 4346.24 ug/L
RT: 17.932 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:128 Resp: 328706

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.7

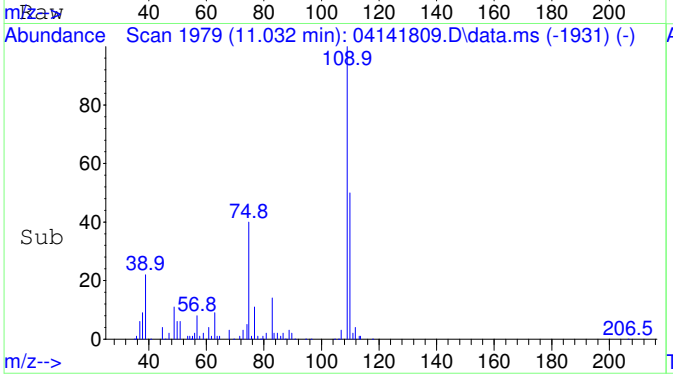


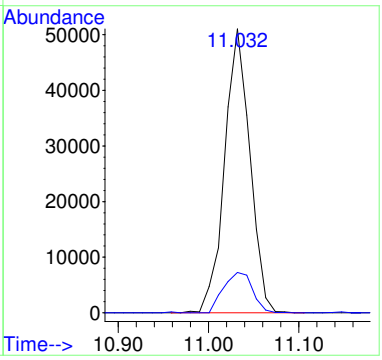


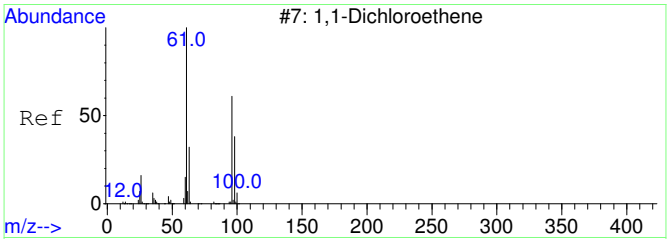
#25
2-Fluorotoluene SCAN
Concen: 5570.54 ug/L
RT: 11.032 min Scan# 1979
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

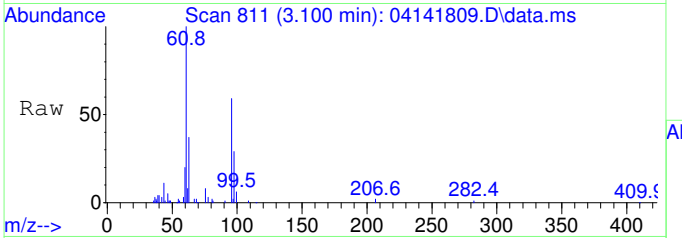
Tgt Ion:109 Resp: 99886

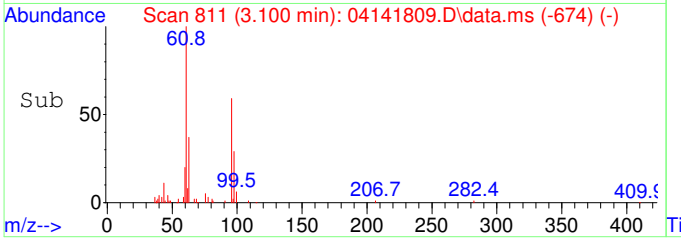
Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	49.2







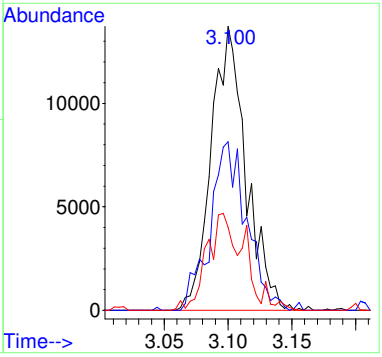


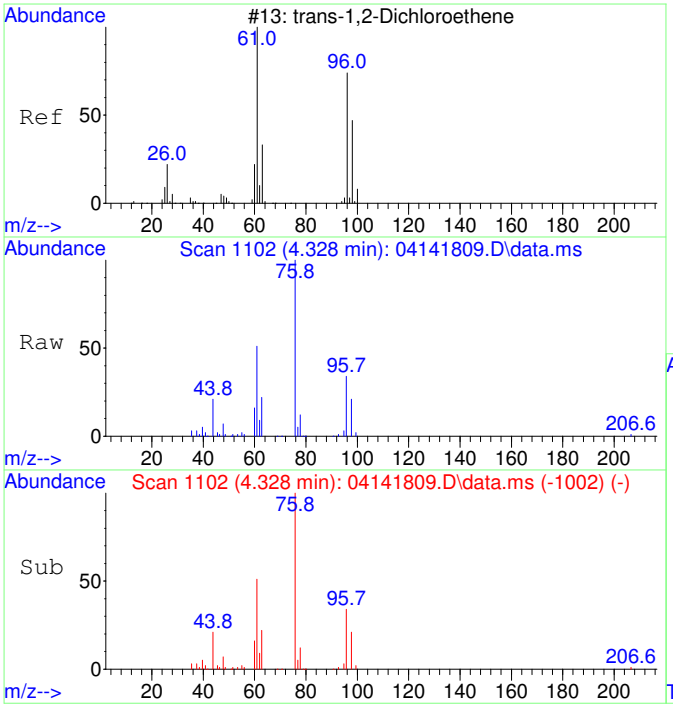


#26
1,1-Dichloroethene SCAN
Concen: 6555.98 ug/L
RT: 3.100 min Scan# 811
Delta R.T. 0.008 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 26054

Ion	Ratio	Lower	Upper
61	100		
96	62.1	21.6	81.6
98	31.9	7.5	67.5

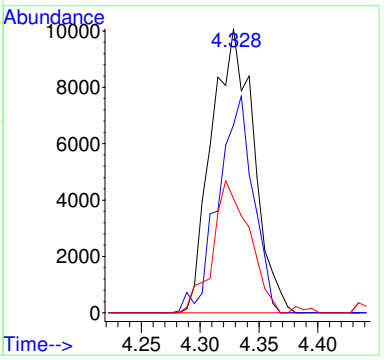


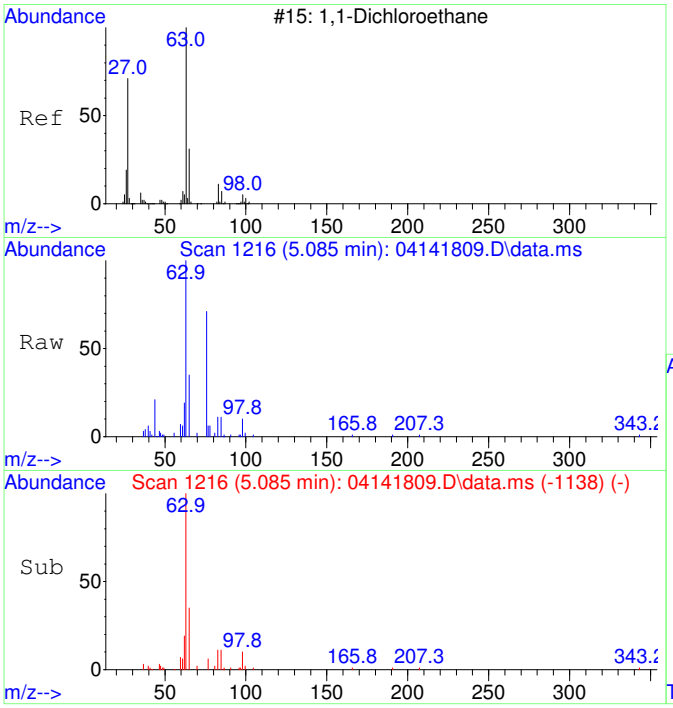


#27
trans-1,2-Dichloroethene SCAN
Concen: 6461.42 ug/L
RT: 4.328 min Scan# 1102
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 25160

Ion	Ratio	Lower	Upper
61	100		
96	63.4	51.8	111.8
98	40.3	22.7	82.7

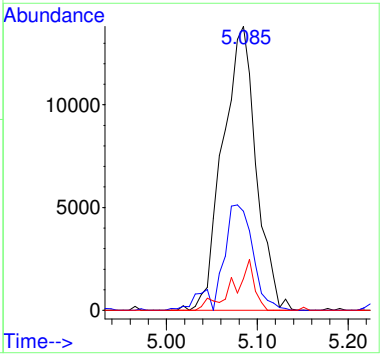


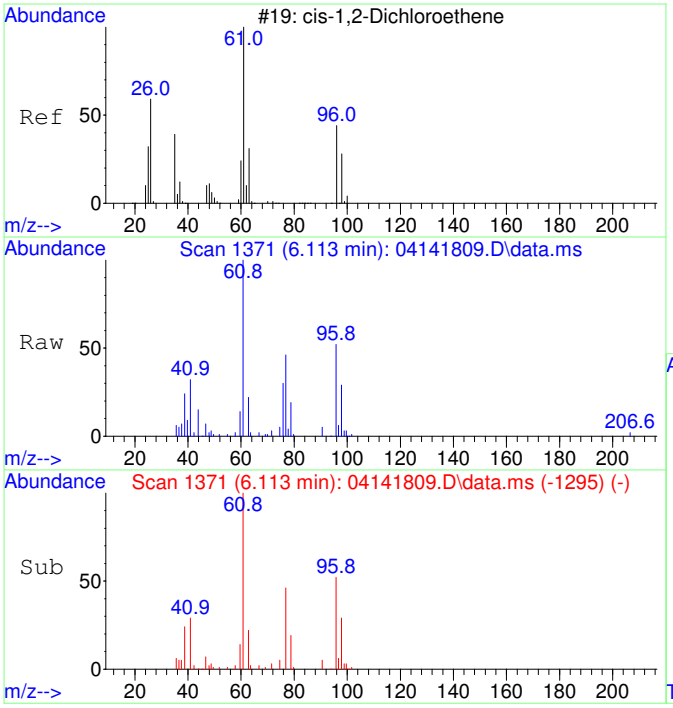


#28
1,1-Dichloroethane SCAN
Concen: 5930.41 ug/L
RT: 5.085 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 63 Resp: 35334

Ion	Ratio	Lower	Upper
63	100		
65	34.5	2.2	62.2
83	11.2	0.0	38.2

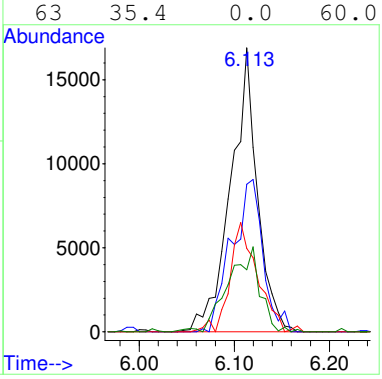


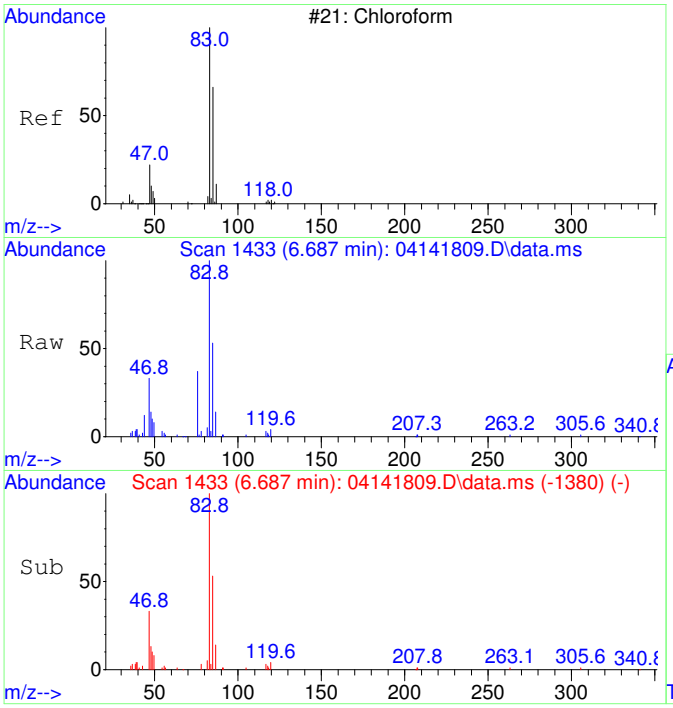


#29
cis-1,2-Dichloroethene SCAN
Concen: 7114.71 ug/L
RT: 6.113 min Scan# 1371
Delta R.T. 0.007 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 61 Resp: 33275

Ion	Ratio	Lower	Upper
61	100		
96	62.1	49.4	109.4
98	37.4	9.5	69.5
63	35.4	0.0	60.0

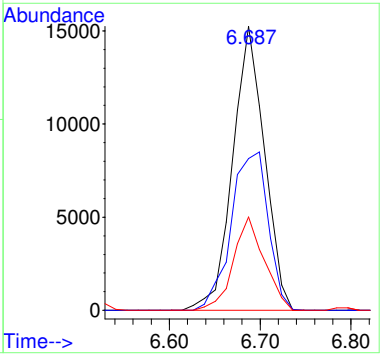


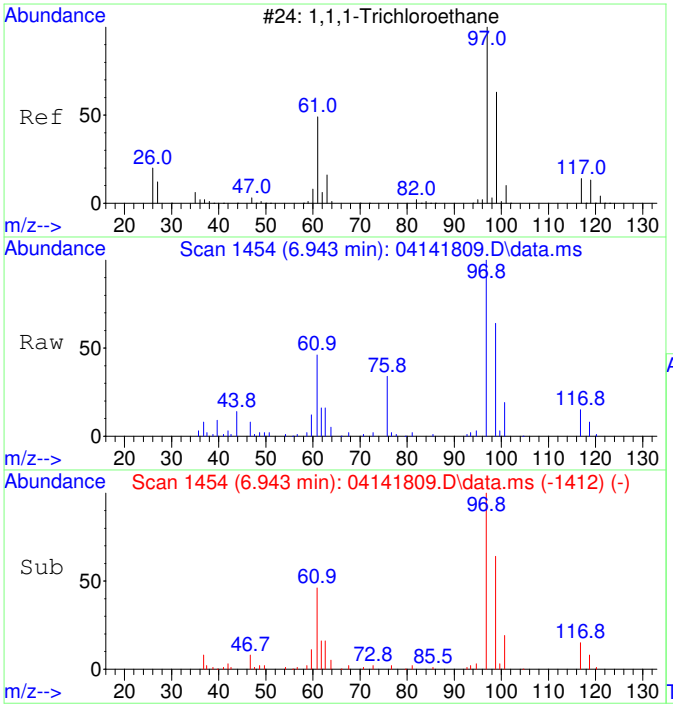


#30
Chloroform SCAN
Concen: 6576.53 ug/L
RT: 6.687 min Scan# 1433
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 37111

Ion	Ratio	Lower	Upper
83	100		
85	65.2	47.8	107.8
47	32.2	8.2	68.2

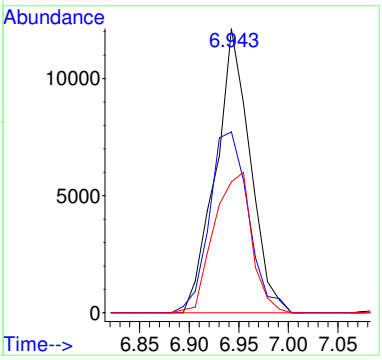


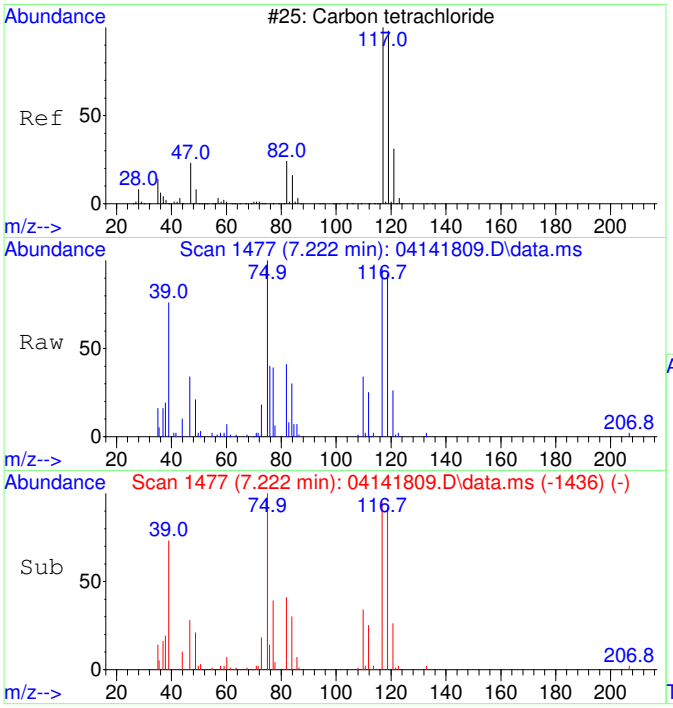


#31
1,1,1-Trichloroethane SCAN
Concen: 4146.00 ug/L
RT: 6.943 min Scan# 1454
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 29359

Ion	Ratio	Lower	Upper
97	100		
99	72.5	18.3	78.3
61	54.4	16.3	76.3

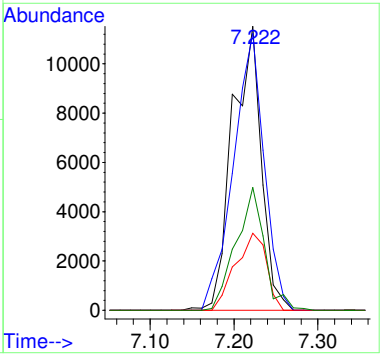


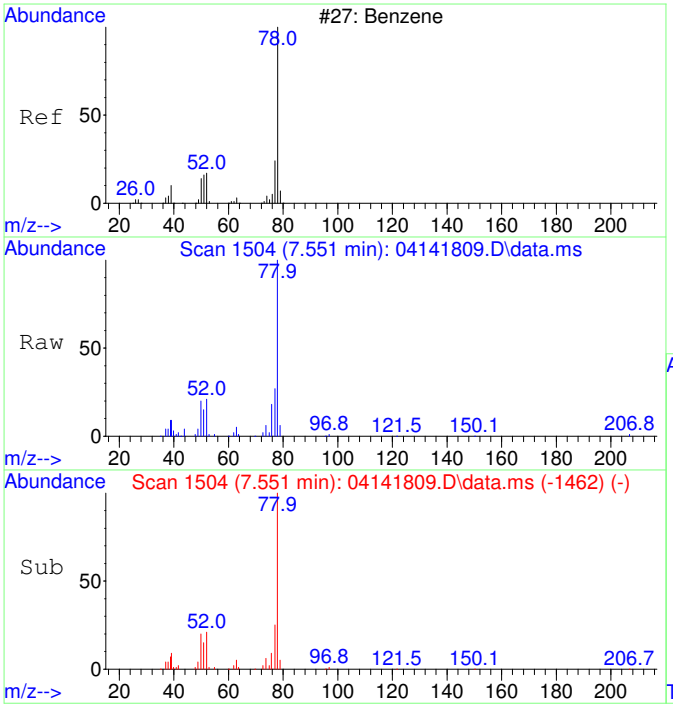


#32
Carbon tetrachloride SCAN
Concen: 5430.92 ug/L
RT: 7.222 min Scan# 1477
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:117 Resp: 27661

Ion	Ratio	Lower	Upper
117	100		
119	103.2	54.4	114.4
121	28.9	0.0	53.0
82	42.3	7.9	67.9

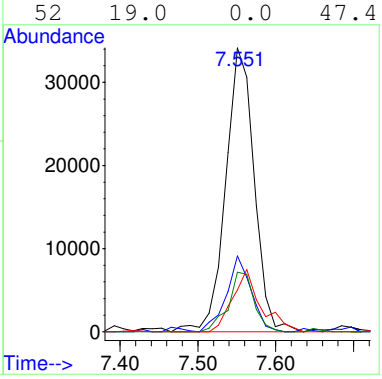


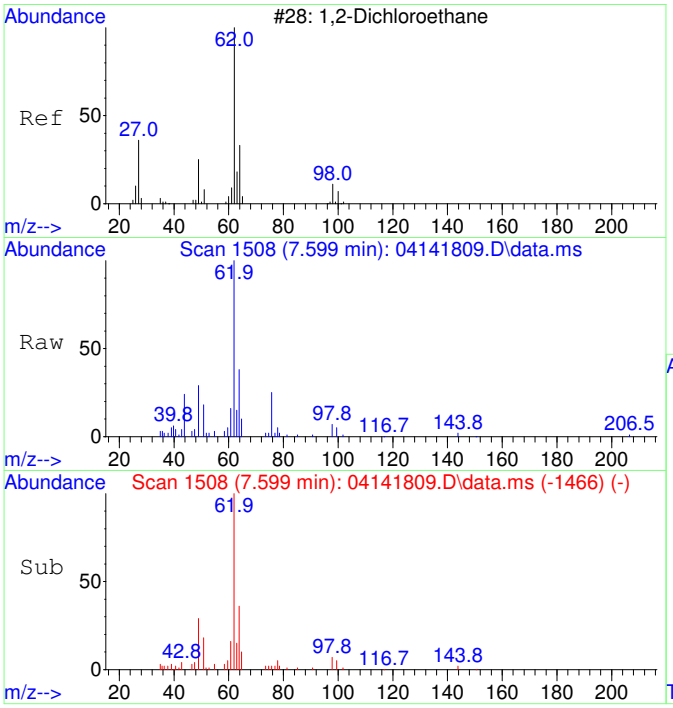


#33
Benzene SCAN
Concen: 5662.12 ug/L
RT: 7.551 min Scan# 1504
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 78 Resp: 87417

Ion	Ratio	Lower	Upper
78	100		
77	23.3	5.4	65.4
51	21.6	0.0	47.2
52	19.0	0.0	47.4

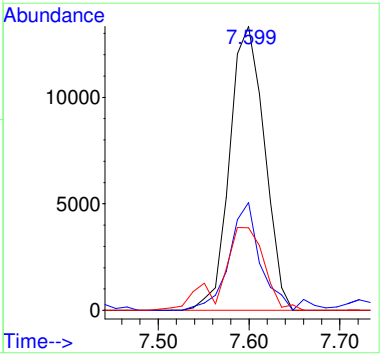


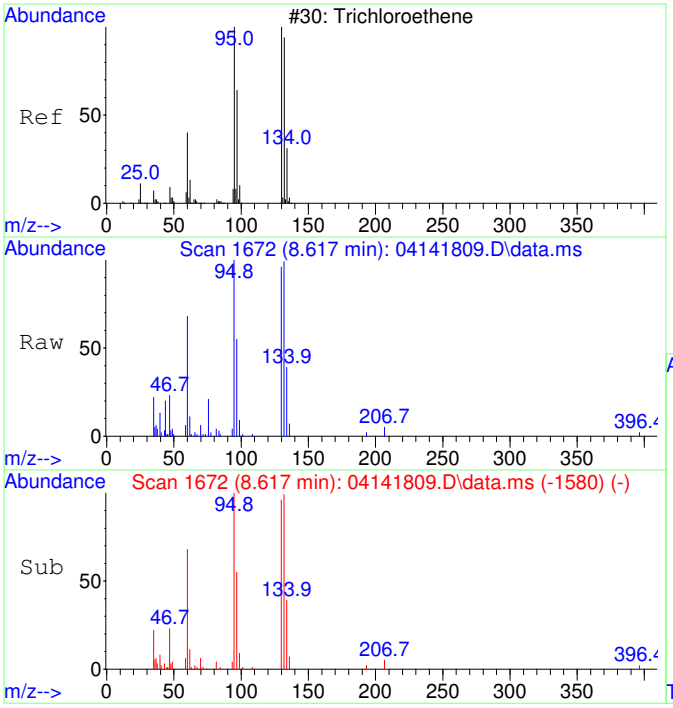


#34
1,2-Dichloroethane SCAN
Concen: 6073.67 ug/L
RT: 7.599 min Scan# 1508
Delta R.T. 0.012 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 62 Resp: 35556

Ion	Ratio	Lower	Upper
62	100		
64	33.6	4.4	64.4
49	35.4	1.2	61.2

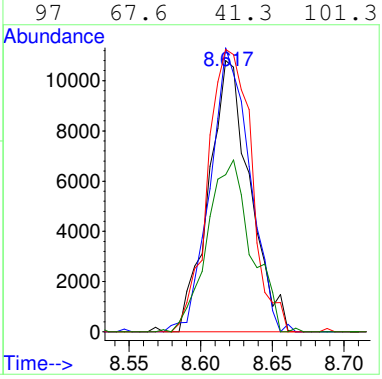


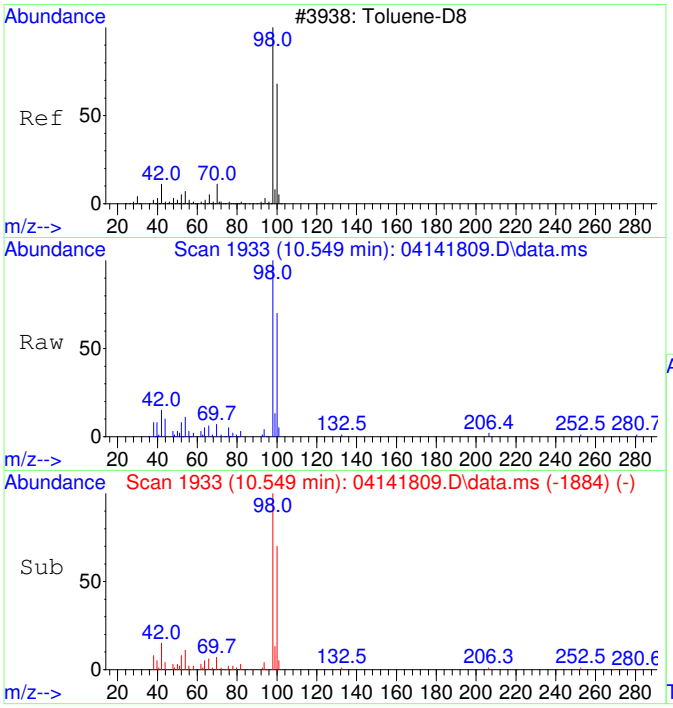


#35
Trichloroethene SCAN
Concen: 5566.94 ug/L
RT: 8.617 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:130 Resp: 21594

Ion	Ratio	Lower	Upper
130	100		
95	100.7	71.3	131.3
132	110.2	75.1	135.1
97	67.6	41.3	101.3

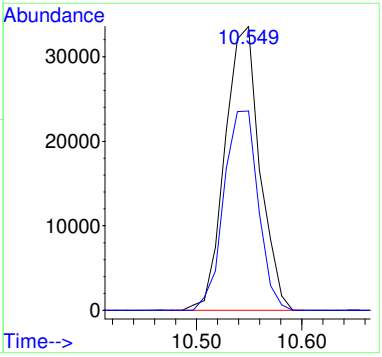


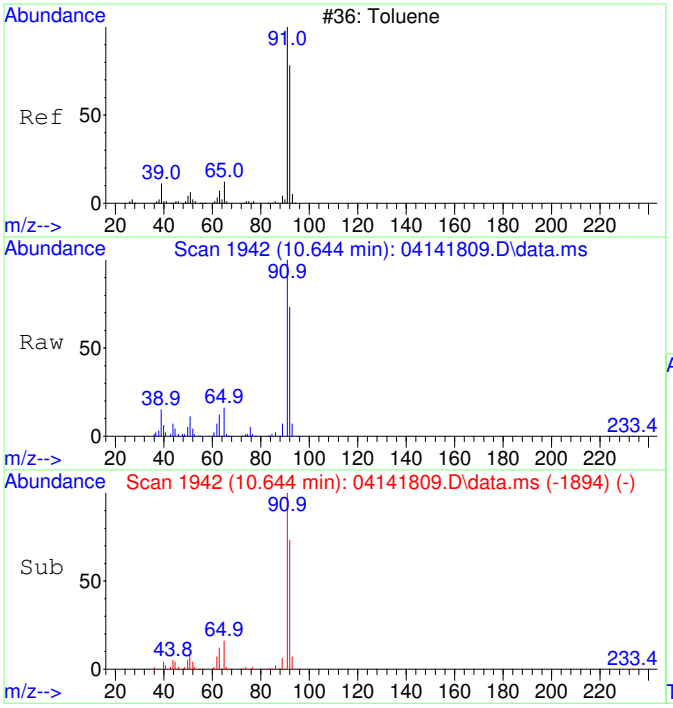


#36
Toluene-d8 SCAN
Concen: 4917.81 ug/L
RT: 10.549 min Scan# 1933
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 98 Resp: 77424

Ion	Ratio	Lower	Upper
98	100		
100	69.3	37.3	97.3

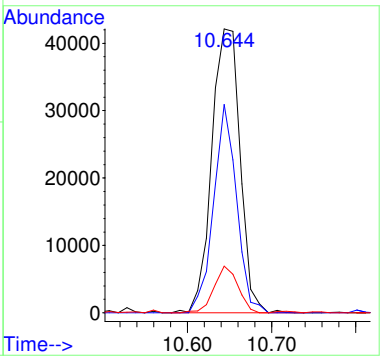


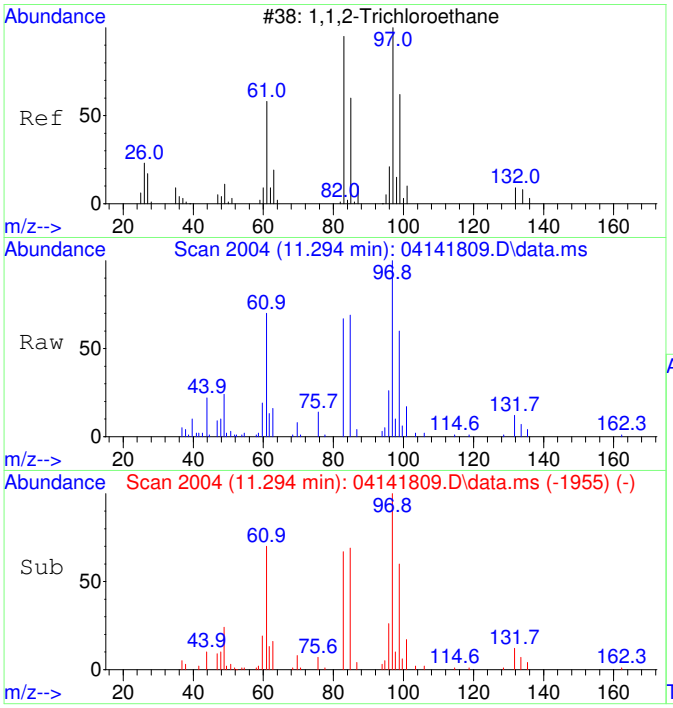


#37
Toluene SCAN
Concen: 5596.82 ug/L
RT: 10.644 min Scan# 1942
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 98546

Ion	Ratio	Lower	Upper
91	100		
92	59.5	39.1	99.1
65	14.0	0.0	43.8

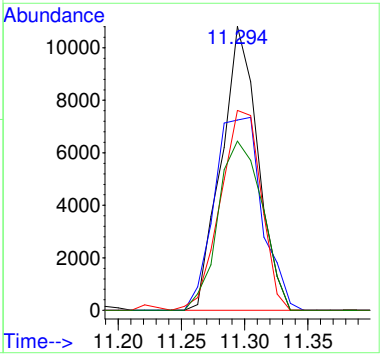


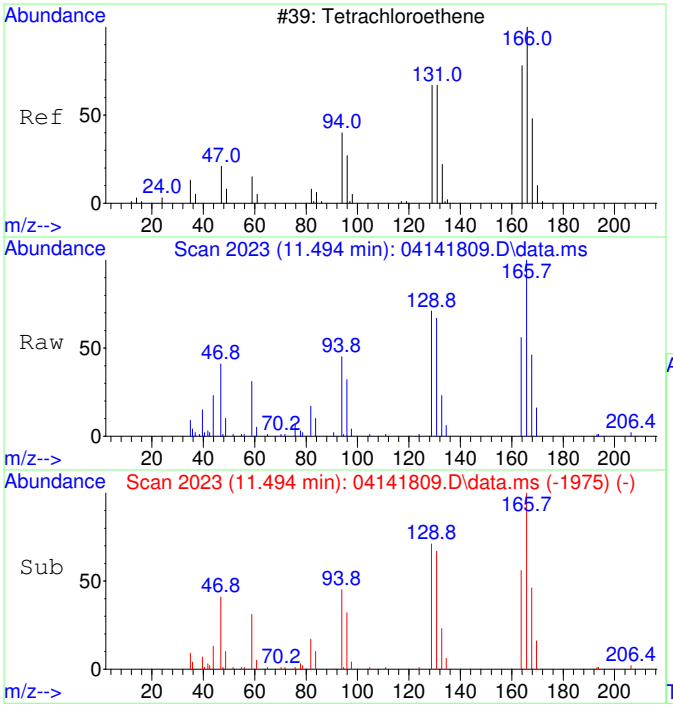


#38
1,1,2-Trichloroethane SCAN
Concen: 4045.97 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 97 Resp: 21817

Ion	Ratio	Lower	Upper
97	100		
83	88.9	47.4	107.4
61	78.5	29.7	89.7
99	72.1	26.5	86.5

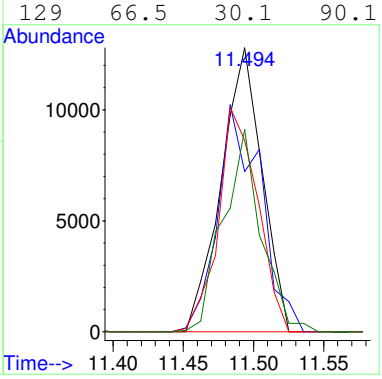


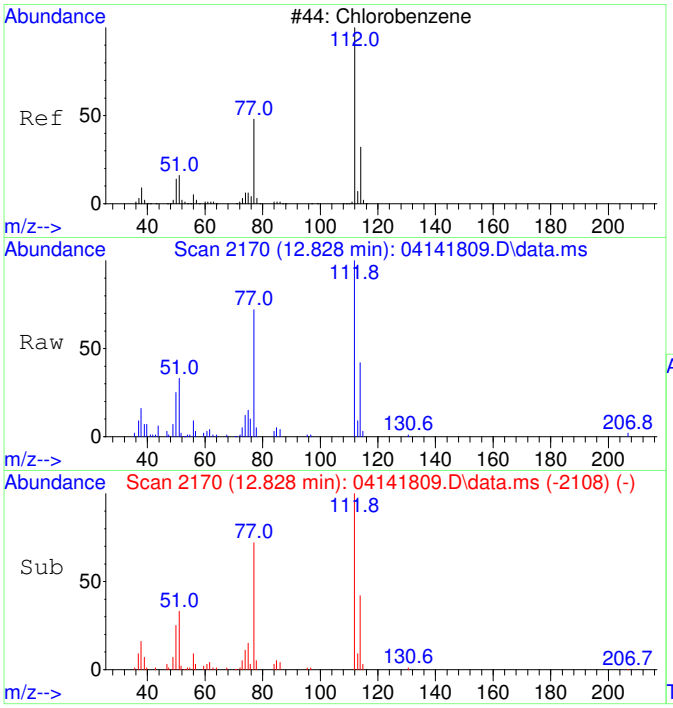


#39
Tetrachloroethene SCAN
Concen: 4540.51 ug/L
RT: 11.494 min Scan# 2023
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:166 Resp: 26072

Ion	Ratio	Lower	Upper
166	100		
164	84.2	49.8	109.8
131	75.7	42.0	102.0
129	66.5	30.1	90.1

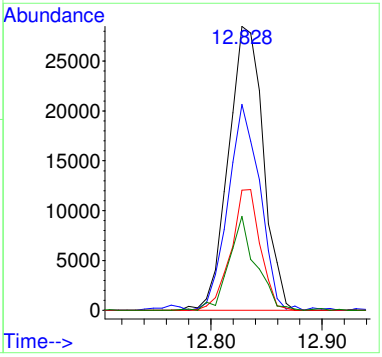


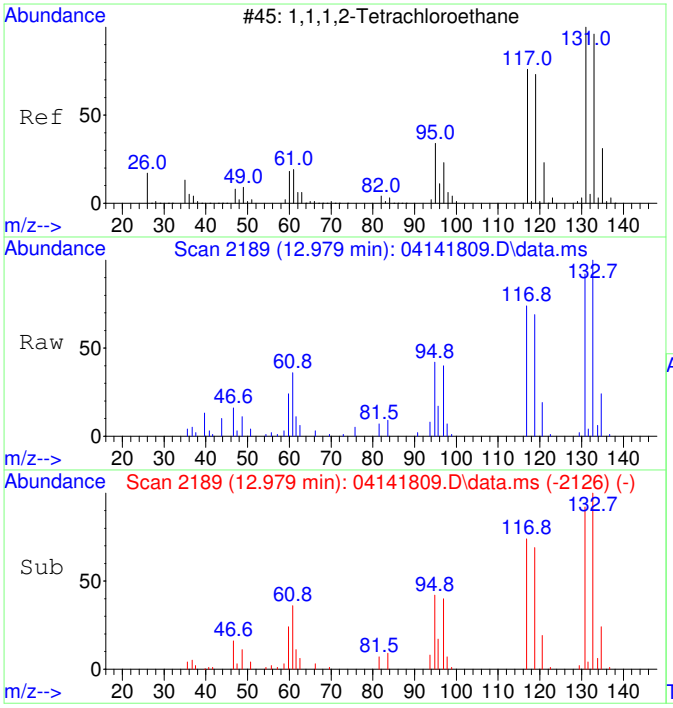


#40
Chlorobenzene SCAN
Concen: 4480.11 ug/L
RT: 12.828 min Scan# 2170
Delta R.T. -0.008 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:112 Resp: 61991

Ion	Ratio	Lower	Upper
112	100		
77	66.1	39.7	99.7
114	35.9	1.2	61.2
51	25.6	0.0	57.1

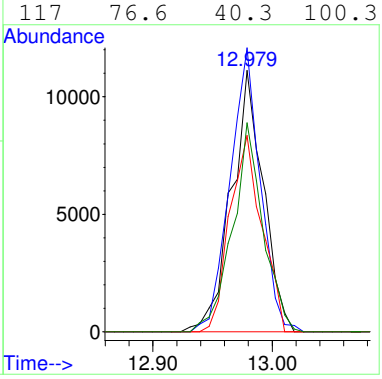


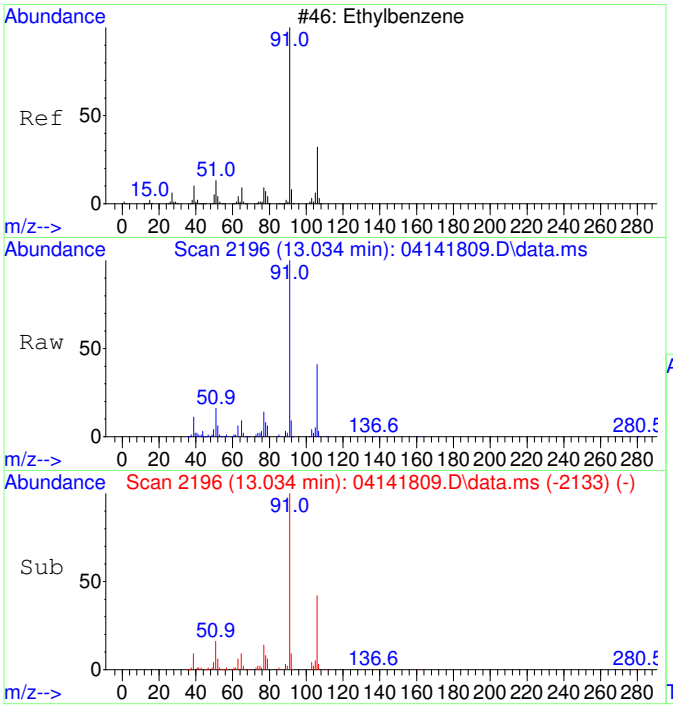


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4601.64 ug/L
RT: 12.979 min Scan# 2189
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:131 Resp: 20700

Ion	Ratio	Lower	Upper
131	100		
133	103.4	78.7	138.7
119	75.4	43.0	103.0
117	76.6	40.3	100.3

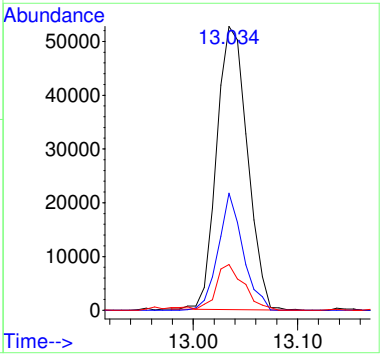


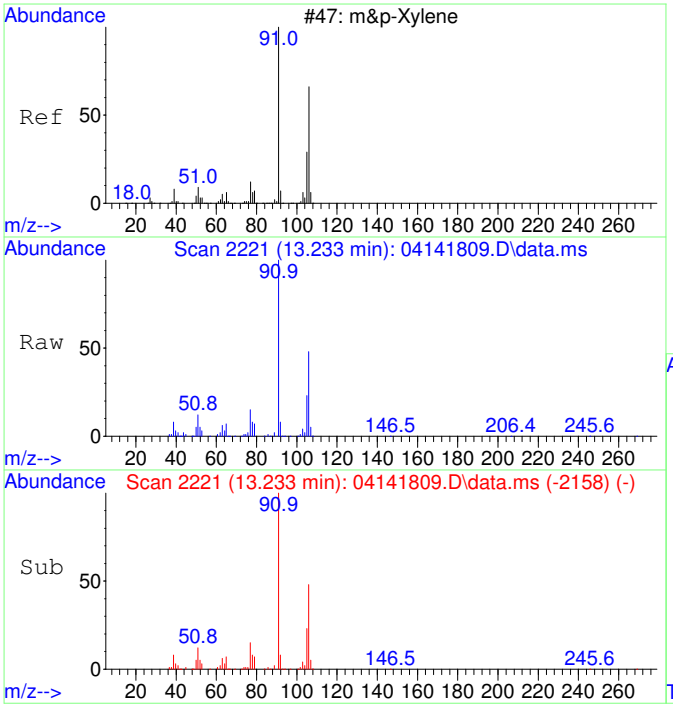


#42
Ethylbenzene SCAN
Concen: 4657.50 ug/L
RT: 13.034 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 107495

Ion	Ratio	Lower	Upper
91	100		
106	33.5	1.8	61.8
51	14.7	0.0	45.4

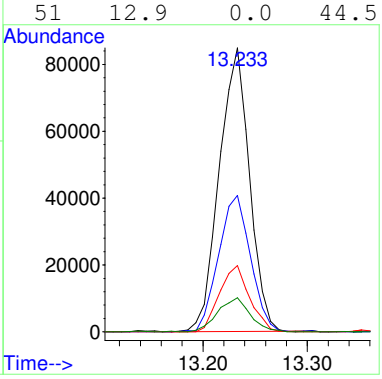


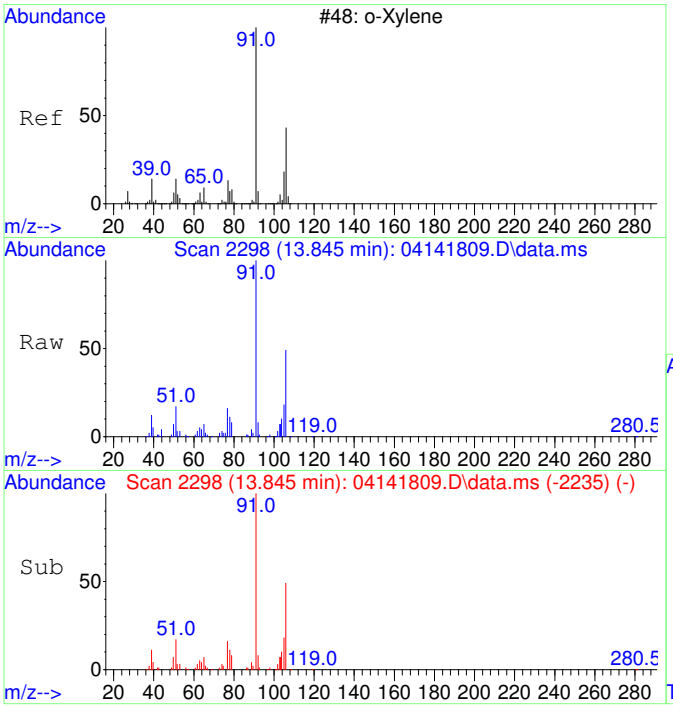


#43
m&p-Xylene SCAN
Concen: 4538.00 ug/L
RT: 13.233 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 170448

Ion	Ratio	Lower	Upper
91	100		
106	50.9	14.6	74.6
105	23.3	0.0	52.8
51	12.9	0.0	44.5

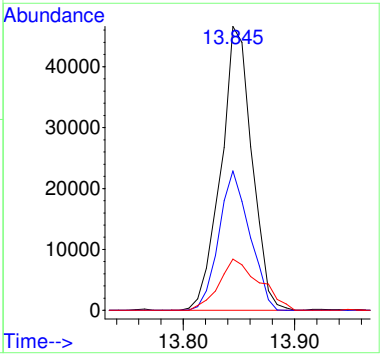


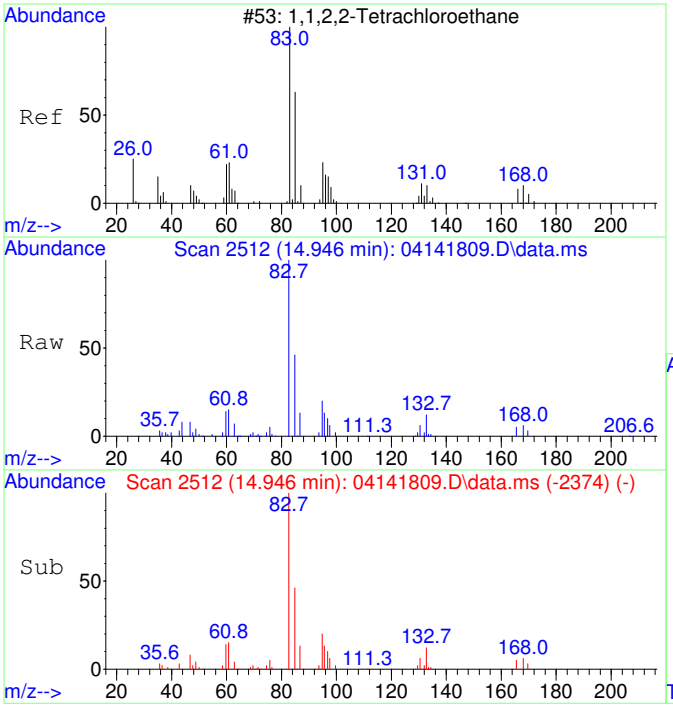


#44
o-Xylene SCAN
Concen: 4438.57 ug/L
RT: 13.845 min Scan# 2298
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 91 Resp: 90273

Ion	Ratio	Lower	Upper
91	100		
106	48.9	20.2	80.2
105	23.7	0.0	54.9

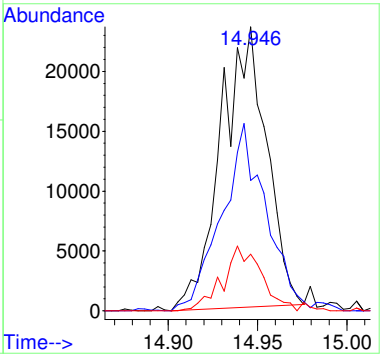


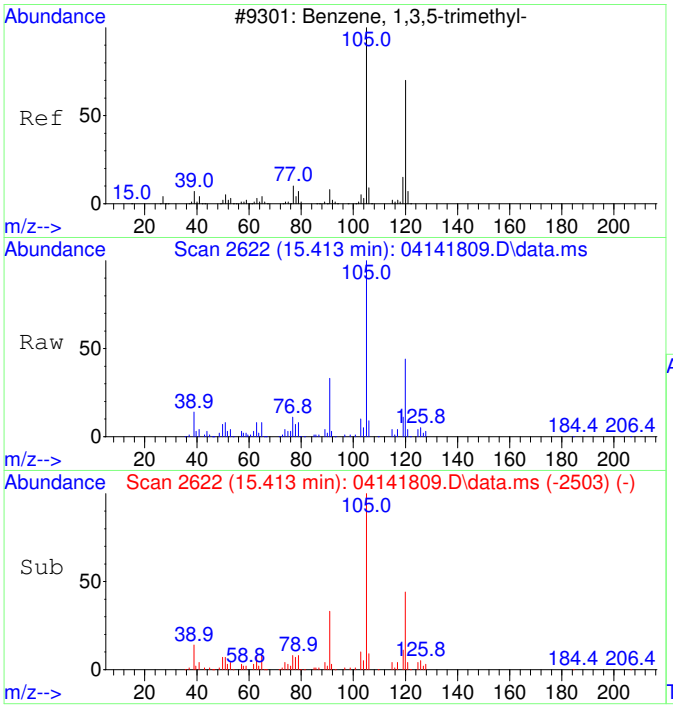


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 3921.65 ug/L
RT: 14.946 min Scan# 2512
Delta R.T. 0.011 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 83 Resp: 41748

Ion	Ratio	Lower	Upper
83	100		
85	63.1	32.4	92.4
95	19.4	0.0	41.2

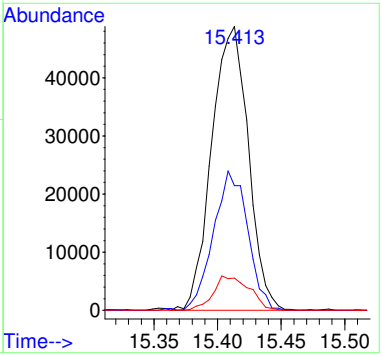


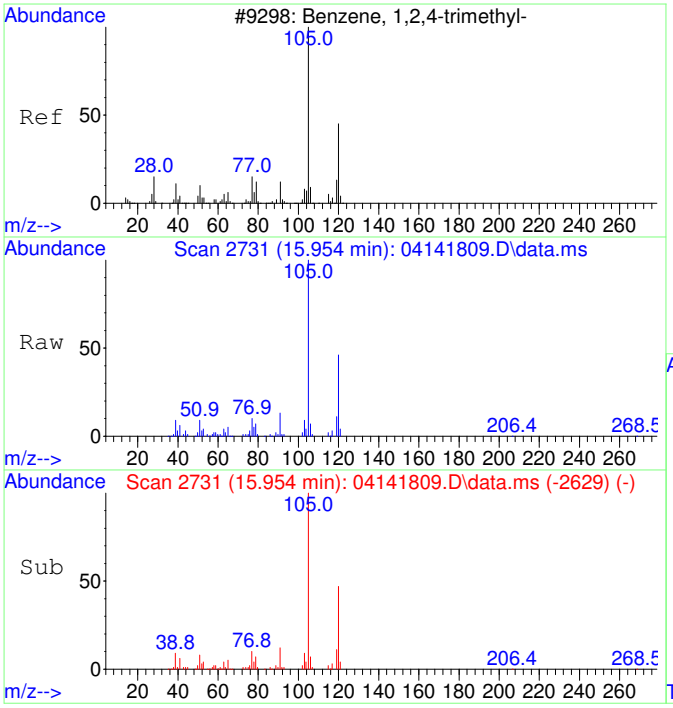


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4204.93 ug/L
RT: 15.413 min Scan# 2622
Delta R.T. 0.001 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 98297

Ion	Ratio	Lower	Upper
105	100		
120	46.1	16.1	76.1
119	11.9	0.0	41.8

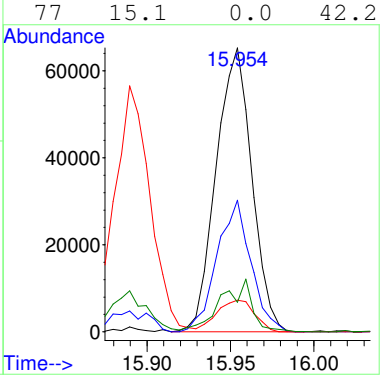


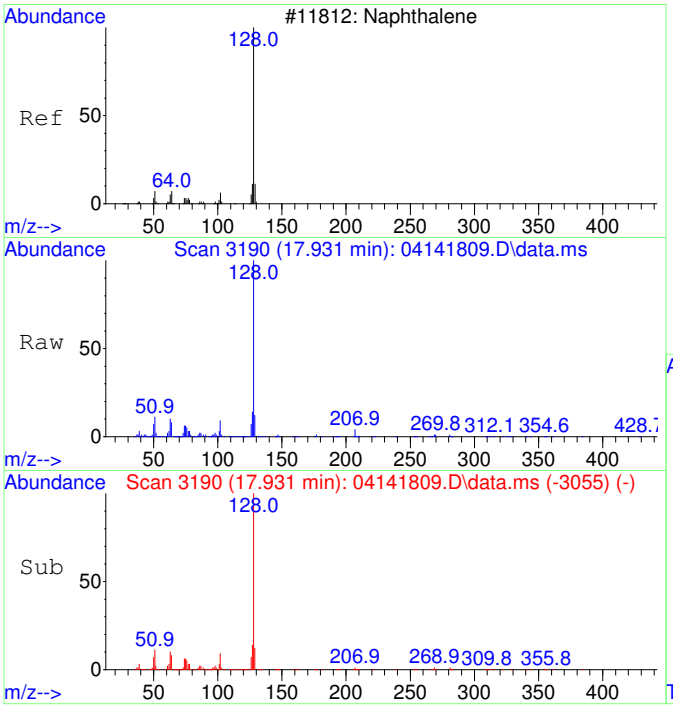


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4114.40 ug/L
RT: 15.954 min Scan# 2731
Delta R.T. 0.006 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:105 Resp: 96950

Ion	Ratio	Lower	Upper
105	100		
120	44.0	12.8	72.8
119	10.6	0.0	42.5
77	15.1	0.0	42.2

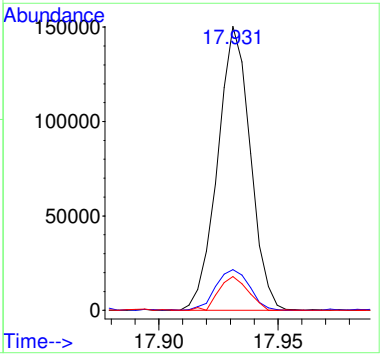


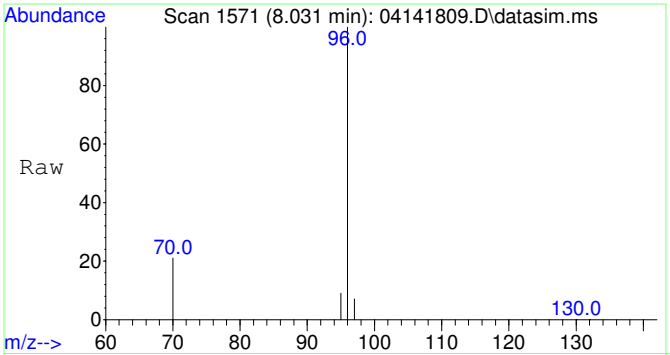


#48
Naphthalene SCAN
Concen: 3785.10 ug/L
RT: 17.931 min Scan# 3190
Delta R.T. 0.000 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion:128 Resp: 143705

Ion	Ratio	Lower	Upper
128	100		
127	14.8	0.0	45.2
129	10.6	0.0	42.0

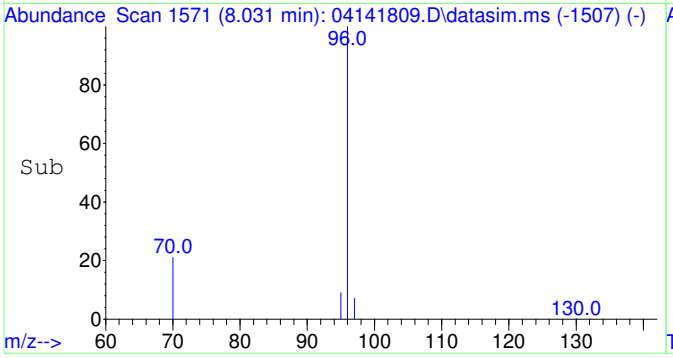


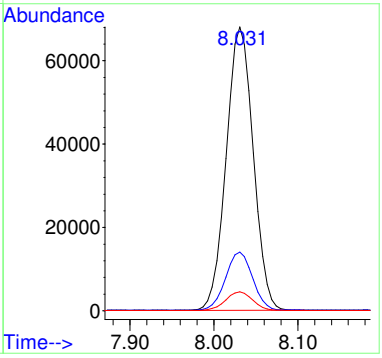


#49
Fluorobenzene
Concen: 5000.00 ug/L
RT: 8.031 min Scan# 1571
Delta R.T. 0.006 min
Lab File: 04141809.D
Acq: 14 Apr 2018 14:02

Tgt Ion: 96 Resp: 151656

Ion	Ratio	Lower	Upper
96	100		
70	20.5	0.0	50.7
97	6.6	0.0	36.7





Analytical Standard Record

EPA Region 9 Laboratory

1639096

Description:	2-Fluorotlouene	**Expires:**	12/31/29
Standard Type:	Other Solution	**Prepared:**	09/22/16
Solvent:	na	**Prepared By:**	** Vendor **
Final Volume (mls):	100	**Department:**	Volatiles
Vials:	1	**Last Edit:**	09/22/16 11:46 by RH
Vendor:		**Lot Numbe**	STBF8552V

Aldrich; Cat # F15323-100G, bar code #AU008468

Analyte	CAS Number	Concentration (ppm)
2-Fluorotoluene	95-52-3	1000000

SIGMA-ALDRICH®

3050 Spruce Street, Saint Louis, MO 63103 USA
Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:	2-FLUOROTOLUENE
	>= 99 %
Product Number:	F15323
Batch Number:	STBF8552V
Brand:	Aldrich
CAS Number:	95-52-3
Formula:	$CH_3C_6H_4F$
Formula Weight:	110.13
Quality Release Date:	14 SEP 2015

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS TO VERY FAINT YELLOW	VERY FAINT YELLOW
APPEARANCE (FORM)	LIQUID	LIQUID
COLOR (IN APHA)	≤ 50 APHA	40 APHA
PURITY (GC AREA %)	≥ 99.0 %	99.9 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS

Dr. Claudia Geitner
Manager Quality Control
Steinheim, Germany

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Analytical Standard Record

EPA Region 9 Laboratory

1639097

Description:	Toluene-d8	**Expires:**	05/31/19
Standard Type:	Other Solution	**Prepared:**	09/22/16
Solvent:	na	**Prepared By:**	Bob Hopeman
Final Volume (mls):	0.1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	09/22/16 11:51 by RH
Vendor:	Supelco	**Lot Numbe**	LC20793V

Aldrich; Cat # 44-2809, bar code #AU008467

Analyte	CAS Number	Concentration (ppm)
Toluene-d8	2037-26-5	1000000

Certificate of Analysis

DESCRIPTION: Toluene-d8

MFG. DATE: May 2016

CATALOG NO.: 442809 (1)

LOT NO.: LC20793V

EXP. DATE: May 2019

CAS NUMBER: 2037-26-5

MOLECULAR FORMULA: C7D8

MOLECULAR WEIGHT: 100.21

PHYSICAL PROPERTIES	ASSAY	
FTIR	Matches: SUPELCO	Lib. No.: USER1 37
GC - Mass Spec	Matches: NIST	Lib. No.: 3888
Purity (2)	98.6%	

(1) This product is packaged from R471390 Lot number LC11825.

(2) Determined by GC-FID unless otherwise noted.

Duane Funk

Duane Funk
Quality Manager

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Analytical Standard Record

EPA Region 9 Laboratory

1652065

Description:	VOA 502.2 CAL 2000 MEGA MIX, Stock	**Expires:**	07/31/18
Standard Type:	Other Solution	**Prepared:**	12/20/16
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	12/20/16 11:14 by YNB
Vendor:	Restek	**Lot Numbe**	A0120695

RESTEK, catalog # 30431, Barcode AU008643

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	2000
Bromobenzene	108-86-1	2000
Benzene	71-43-2	2000
4-Chlorotoluene	106-43-4	2000
2-Chlorotoluene	95-49-8	2000
2,2-Dichloropropane	594-20-7	2000
1,4-Dichlorobenzene	106-46-7	2000
1,3-Dichloropropane	142-28-9	2000
1,3-Dichlorobenzene	541-73-1	2000
1,3,5-Trimethylbenzene	108-67-8	2000
1,2-Dichloropropane	78-87-5	2000
1,1,1,2-Tetrachloroethane	630-20-6	2000
1,2-Dichlorobenzene	95-50-1	2000
Bromoform	75-25-2	2000
1,2-Dibromo-3-chloropropane	96-12-8	2000
1,2,4-Trimethylbenzene	95-63-6	2000
1,2,4-Trichlorobenzene	120-82-1	2000
1,2,3-Trichloropropane	96-18-4	2000
1,2,3-Trichlorobenzene	87-61-6	2000
1,1-Dichloropropene	563-58-6	2000
1,1-Dichloroethene	75-35-4	2000
1,1-Dichloroethane	75-34-3	2000
1,1,2-Trichloroethane	79-00-5	2000
1,1,2,2-Tetrachloroethane	79-34-5	2000
1,1,1-Trichloroethane	71-55-6	2000
1,2-Dichloroethane	107-06-2	2000
Hexachlorobutadiene	87-68-3	2000
trans-1,3-Dichloropropene	10061-02-6	2000
trans-1,2-Dichloroethene	156-60-5	2000
Toluene	108-88-3	2000

Analytical Standard Record

EPA Region 9 Laboratory

1652065

Tetrachloroethene	127-18-4	2000
tert-Butylbenzene	98-06-6	2000
Styrene	100-42-5	2000
sec-Butylbenzene	135-98-8	2000
Propylbenzene	103-65-1	2000
p-Isopropyltoluene	99-87-6	2000
o-Xylene	95-47-6	2000
Naphthalene	91-20-3	2000
Bromochloromethane	74-97-5	2000
Isopropylbenzene	98-82-8	2000
Bromodichloromethane	75-27-4	2000
Ethylbenzene	100-41-4	2000
Dichloromethane	75-09-2	2000
Dibromomethane	74-95-3	2000
cis-1,3-Dichloropropene	10061-01-5	2000
cis-1,2-Dichloroethene	156-59-2	2000
Chloroform	67-66-3	2000
Chlorodibromomethane	124-48-1	2000
Chlorobenzene	108-90-7	2000
Carbon tetrachloride	56-23-5	2000
Butylbenzene	104-51-8	2000
Trichloroethene	79-01-6	2000
m&p-Xylene	179601-23-1	4000

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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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Certificate of Analysis

ACCREDITED ISO Guide 34 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3332.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

A40086374	1652059
38	60
39	61
40	62
41	63
42	64
43	65
44	66
45	67
46	68

Catalog No. : 30431 **Lot No.:** A0120695

Description : 502.2 CAL2000 Mega-Mix

502.2 CAL2000 Mega-Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,1-dichloroethene CAS # 75-35-4 Purity 99%	(Lot SHBD6170V)	2,014.8 µg/mL	+/- 12.6980 µg/mL +/- 90.8800 µg/mL +/- 100.8151 µg/mL		Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) CAS # 75-09-2 Purity 99%	(Lot SHBF9870V)	2,016.7 µg/mL	+/- 12.7100 µg/mL +/- 90.9657 µg/mL +/- 100.9101 µg/mL		Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene CAS # 156-60-5 Purity 99%	(Lot MKBH9850V)	2,017.9 µg/mL	+/- 12.7176 µg/mL +/- 91.0199 µg/mL +/- 100.9702 µg/mL		Gravimetric Unstressed Stressed
4	1,1-Dichloroethane CAS # 75-34-3 Purity 99%	(Lot Q179-33)	2,016.5 µg/mL	+/- 12.7086 µg/mL +/- 90.9558 µg/mL +/- 100.8991 µg/mL		Gravimetric Unstressed Stressed
5	2,2-Dichloropropane CAS # 594-20-7 Purity 98%	(Lot BCBR0622V)	2,000.3 µg/mL	+/- 12.6830 µg/mL +/- 90.2357 µg/mL +/- 100.0981 µg/mL		Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene CAS # 156-59-2 Purity 98%	(Lot MKBV2831V)	2,001.3 µg/mL	+/- 12.6894 µg/mL +/- 90.2814 µg/mL +/- 100.1488 µg/mL		Gravimetric Unstressed Stressed
7	chloroform CAS # 67-66-3 Purity 99%	(Lot MKBV2089V)	2,017.8 µg/mL	+/- 12.7170 µg/mL +/- 91.0154 µg/mL +/- 100.9652 µg/mL		Gravimetric Unstressed Stressed

24	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKBQ6577V)	2,005.0	µg/mL	+/- +/- +/-	12.6364 90.4389 100.3258	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,000.1	µg/mL	+/- +/- +/-	12.6817 90.2262 100.0875	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBF0505V)	2,017.3	µg/mL	+/- +/- +/-	12.7138 90.9928 100.9402	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,000.9	µg/mL	+/- +/- +/-	12.6868 90.2623 100.1276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBG5920V)	2,000.8	µg/mL	+/- +/- +/-	12.6861 90.2578 100.1226	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBF8095V)	2,000.9	µg/mL	+/- +/- +/-	12.6870 90.2638 100.1292	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBF3427V)	2,000.1	µg/mL	+/- +/- +/-	12.6821 90.2292 100.0909	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBF7003V)	2,001.0	µg/mL	+/- +/- +/-	12.6878 90.2698 100.1359	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBS7097V)	2,000.4	µg/mL	+/- +/- +/-	12.6838 90.2412 100.1042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,000.3	µg/mL	+/- +/- +/-	12.6834 90.2382 100.1009	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBD8459V)	2,018.3	µg/mL	+/- +/- +/-	12.7202 91.0388 100.9912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,016.9	µg/mL	+/- +/- +/-	12.7113 90.9748 100.9202	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,000.2	µg/mL	+/- +/- +/-	12.6823 90.2307 100.0925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot MKBJ0332V)	2,000.5	µg/mL	+/- +/- +/-	12.6844 90.2457 100.1092	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,000.3	µg/mL	+/- +/- +/-	12.6834 90.2382 100.1009	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBJ6245V)	2,000.8	µg/mL	+/- +/- +/-	12.6863 90.2593 100.1242	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

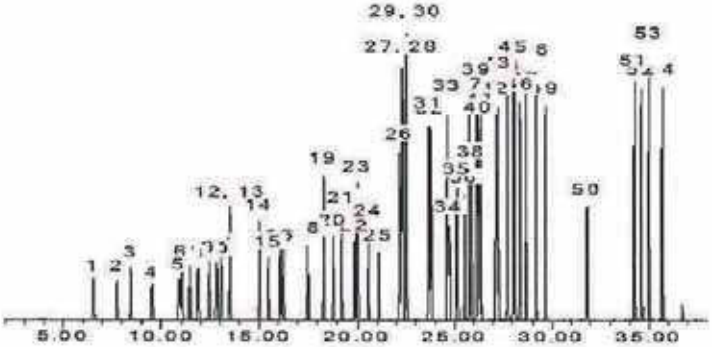
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician

Date Mixed: 28-Jul-2016 **Balance:** 1125113331

Date Passed: 02-Aug-2016

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

8	Bromochloromethane			2,000.5	µg/mL	+/-	12.6844	µg/mL	Gravimetric
	CAS #	74-97-5	(Lot 00004559)			+/-	90.2457	µg/mL	Unstressed
	Purity	99%				+/-	100.1092	µg/mL	Stressed
9	1,1,1-trichloroethane			2,016.3	µg/mL	+/-	12.7074	µg/mL	Gravimetric
	CAS #	71-55-6	(Lot B15MW0705)			+/-	90.9468	µg/mL	Unstressed
	Purity	99%				+/-	100.8891	µg/mL	Stressed
10	1,1-Dichloropropene			2,000.7	µg/mL	+/-	12.6858	µg/mL	Gravimetric
	CAS #	563-58-6	(Lot 4935200)			+/-	90.2558	µg/mL	Unstressed
	Purity	97%				+/-	100.1203	µg/mL	Stressed
11	carbon tetrachloride			2,016.6	µg/mL	+/-	12.7095	µg/mL	Gravimetric
	CAS #	56-23-5	(Lot SHBG1763V)			+/-	90.9621	µg/mL	Unstressed
	Purity	99%				+/-	100.9061	µg/mL	Stressed
12	1,2-Dichloroethane			2,016.4	µg/mL	+/-	12.7081	µg/mL	Gravimetric
	CAS #	107-06-2	(Lot MKBV4565V)			+/-	90.9522	µg/mL	Unstressed
	Purity	99%				+/-	100.8951	µg/mL	Stressed
13	Benzene			2,000.5	µg/mL	+/-	12.6846	µg/mL	Gravimetric
	CAS #	71-43-2	(Lot SHBG7317V)			+/-	90.2472	µg/mL	Unstressed
	Purity	99%				+/-	100.1109	µg/mL	Stressed
14	Trichloroethene			2,014.8	µg/mL	+/-	12.6979	µg/mL	Gravimetric
	CAS #	79-01-6	(Lot SHBF0943V)			+/-	90.8791	µg/mL	Unstressed
	Purity	99%				+/-	100.8141	µg/mL	Stressed
15	1,2-Dichloropropane			2,016.3	µg/mL	+/-	12.7078	µg/mL	Gravimetric
	CAS #	78-87-5	(Lot 01113D0V)			+/-	90.9495	µg/mL	Unstressed
	Purity	99%				+/-	100.8921	µg/mL	Stressed
16	bromodichloromethane			2,006.0	µg/mL	+/-	12.6426	µg/mL	Gravimetric
	CAS #	75-27-4	(Lot MKBL1617V)			+/-	90.4832	µg/mL	Unstressed
	Purity	98%				+/-	100.3748	µg/mL	Stressed
17	Dibromomethane			2,000.2	µg/mL	+/-	12.6824	µg/mL	Gravimetric
	CAS #	74-95-3	(Lot 10183283)			+/-	90.2313	µg/mL	Unstressed
	Purity	98%				+/-	100.0932	µg/mL	Stressed
18	cis-1,3-Dichloropropene			2,016.7	µg/mL	+/-	12.7101	µg/mL	Gravimetric
	CAS #	10061-01-5	(Lot 22238)			+/-	90.9666	µg/mL	Unstressed
	Purity	99%				+/-	100.9111	µg/mL	Stressed
19	Toluene			2,000.2	µg/mL	+/-	12.6825	µg/mL	Gravimetric
	CAS #	108-88-3	(Lot MKBV5601V)			+/-	90.2322	µg/mL	Unstressed
	Purity	99%				+/-	100.0942	µg/mL	Stressed
20	trans-1,3-Dichloropropene			2,016.0	µg/mL	+/-	12.7059	µg/mL	Gravimetric
	CAS #	10061-02-6	(Lot C584177)			+/-	90.9360	µg/mL	Unstressed
	Purity	99%				+/-	100.8771	µg/mL	Stressed
21	1,1,2-Trichloroethane			2,017.7	µg/mL	+/-	12.7162	µg/mL	Gravimetric
	CAS #	79-00-5	(Lot FGB01)			+/-	91.0099	µg/mL	Unstressed
	Purity	99%				+/-	100.9592	µg/mL	Stressed
22	1,3-Dichloropropane			2,000.5	µg/mL	+/-	12.6846	µg/mL	Gravimetric
	CAS #	142-28-9	(Lot BCBG2162V)			+/-	90.2472	µg/mL	Unstressed
	Purity	99%				+/-	100.1109	µg/mL	Stressed
23	Tetrachloroethene			2,017.3	µg/mL	+/-	12.7136	µg/mL	Gravimetric
	CAS #	127-18-4	(Lot SHBD9374V)			+/-	90.9910	µg/mL	Unstressed
	Purity	99%				+/-	100.9382	µg/mL	Stressed

40	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,001.4	µg/mL	+/- +/- +/-	12.6903 90.2878 100.1559	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,001.3	µg/mL	+/- +/- +/-	12.6893 90.2803 100.1476	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ6229V)	2,000.0	µg/mL	+/- +/- +/-	12.6814 90.2239 100.0850	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBK3151V)	2,000.6	µg/mL	+/- +/- +/-	12.6851 90.2502 100.1142	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBS2604V)	2,000.9	µg/mL	+/- +/- +/-	12.6872 90.2653 100.1309	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBM5751V)	2,016.5	µg/mL	+/- +/- +/-	12.7090 90.9585 100.9021	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS1350V)	2,017.5	µg/mL	+/- +/- +/-	12.7152 91.0027 100.9512	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09418JJV)	2,000.3	µg/mL	+/- +/- +/-	12.6830 90.2352 100.0975	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot S52237V)	2,001.0	µg/mL	+/- +/- +/-	12.6874 90.2668 100.1326	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBD7331V)	2,017.4	µg/mL	+/- +/- +/-	12.7147 90.9991 100.9472	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,000.2	µg/mL	+/- +/- +/-	12.6825 90.2322 100.0942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBC5541V)	2,002.3	µg/mL	+/- +/- +/-	12.6956 90.3254 100.1976	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot J31X013)	1,999.9	µg/mL	+/- +/- +/-	12.6805 90.2180 100.0785	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	2,000.7	µg/mL	+/- +/- +/-	12.6859 90.2563 100.1209	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	1,2,3-Trichlorobenzene **CAS #** 87-61-6 **Purity** 99%	(Lot MKBS4859V)	2,000.8	µg/mL	+/- +/- +/-	12.6863 90.2593 100.1242	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Analytical Standard Record

EPA Region 9 Laboratory

1652067

Description:	VOA 502.2 CAL 2000 MEGA MIX, Stock	**Expires:**	07/31/18
Standard Type:	Other Solution	**Prepared:**	12/20/16
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	12/20/16 11:14 by YNB
Vendor:	Restek	**Lot Numbe**	A0120695

RESTEK, catalog # 30431, Barcode AU008645

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	2000
Bromobenzene	108-86-1	2000
Benzene	71-43-2	2000
4-Chlorotoluene	106-43-4	2000
2-Chlorotoluene	95-49-8	2000
2,2-Dichloropropane	594-20-7	2000
1,4-Dichlorobenzene	106-46-7	2000
1,3-Dichloropropane	142-28-9	2000
1,3-Dichlorobenzene	541-73-1	2000
1,3,5-Trimethylbenzene	108-67-8	2000
1,2-Dichloropropane	78-87-5	2000
1,1,1,2-Tetrachloroethane	630-20-6	2000
1,2-Dichlorobenzene	95-50-1	2000
Bromoform	75-25-2	2000
1,2-Dibromo-3-chloropropane	96-12-8	2000
1,2,4-Trimethylbenzene	95-63-6	2000
1,2,4-Trichlorobenzene	120-82-1	2000
1,2,3-Trichloropropane	96-18-4	2000
1,2,3-Trichlorobenzene	87-61-6	2000
1,1-Dichloropropene	563-58-6	2000
1,1-Dichloroethene	75-35-4	2000
1,1-Dichloroethane	75-34-3	2000
1,1,2-Trichloroethane	79-00-5	2000
1,1,2,2-Tetrachloroethane	79-34-5	2000
1,1,1-Trichloroethane	71-55-6	2000
1,2-Dichloroethane	107-06-2	2000
Hexachlorobutadiene	87-68-3	2000
trans-1,3-Dichloropropene	10061-02-6	2000
trans-1,2-Dichloroethene	156-60-5	2000
Toluene	108-88-3	2000

Analytical Standard Record

EPA Region 9 Laboratory

1652067

Tetrachloroethene	127-18-4	2000
tert-Butylbenzene	98-06-6	2000
Styrene	100-42-5	2000
sec-Butylbenzene	135-98-8	2000
Propylbenzene	103-65-1	2000
p-Isopropyltoluene	99-87-6	2000
o-Xylene	95-47-6	2000
Naphthalene	91-20-3	2000
Bromochloromethane	74-97-5	2000
Isopropylbenzene	98-82-8	2000
Bromodichloromethane	75-27-4	2000
Ethylbenzene	100-41-4	2000
Dichloromethane	75-09-2	2000
Dibromomethane	74-95-3	2000
cis-1,3-Dichloropropene	10061-01-5	2000
cis-1,2-Dichloroethene	156-59-2	2000
Chloroform	67-66-3	2000
Chlorodibromomethane	124-48-1	2000
Chlorobenzene	108-90-7	2000
Carbon tetrachloride	56-23-5	2000
Butylbenzene	104-51-8	2000
Trichloroethene	79-01-6	2000
m&p-Xylene	179601-23-1	4000

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3332.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

AU008637	1652059
38	60
39	61
40	62
41	63
42	64
43	65
44	66
45	67
46	68

Catalog No. : 30431 **Lot No.:** A0120695

Description : 502.2 CAL2000 Mega-Mix

502.2 CAL2000 Mega-Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,1-dichloroethene CAS # 75-35-4 Purity 99%	(Lot SHBD6170V)	2,014.8 µg/mL	+/- 12.6980 µg/mL +/- 90.8800 µg/mL +/- 100.8151 µg/mL		Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) CAS # 75-09-2 Purity 99%	(Lot SHBF9870V)	2,016.7 µg/mL	+/- 12.7100 µg/mL +/- 90.9657 µg/mL +/- 100.9101 µg/mL		Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene CAS # 156-60-5 Purity 99%	(Lot MKBH9850V)	2,017.9 µg/mL	+/- 12.7176 µg/mL +/- 91.0199 µg/mL +/- 100.9702 µg/mL		Gravimetric Unstressed Stressed
4	1,1-Dichloroethane CAS # 75-34-3 Purity 99%	(Lot Q179-33)	2,016.5 µg/mL	+/- 12.7086 µg/mL +/- 90.9558 µg/mL +/- 100.8991 µg/mL		Gravimetric Unstressed Stressed
5	2,2-Dichloropropane CAS # 594-20-7 Purity 98%	(Lot BCBR0622V)	2,000.3 µg/mL	+/- 12.6830 µg/mL +/- 90.2357 µg/mL +/- 100.0981 µg/mL		Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene CAS # 156-59-2 Purity 98%	(Lot MKBV2831V)	2,001.3 µg/mL	+/- 12.6894 µg/mL +/- 90.2814 µg/mL +/- 100.1488 µg/mL		Gravimetric Unstressed Stressed
7	chloroform CAS # 67-66-3 Purity 99%	(Lot MKBV2089V)	2,017.8 µg/mL	+/- 12.7170 µg/mL +/- 91.0154 µg/mL +/- 100.9652 µg/mL		Gravimetric Unstressed Stressed

24	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKBQ6577V)	2,005.0	µg/mL	+/- +/- +/-	12.6364 90.4389 100.3258	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,000.1	µg/mL	+/- +/- +/-	12.6817 90.2262 100.0875	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBF0505V)	2,017.3	µg/mL	+/- +/- +/-	12.7138 90.9928 100.9402	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,000.9	µg/mL	+/- +/- +/-	12.6868 90.2623 100.1276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBG5920V)	2,000.8	µg/mL	+/- +/- +/-	12.6861 90.2578 100.1226	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBF8095V)	2,000.9	µg/mL	+/- +/- +/-	12.6870 90.2638 100.1292	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBF3427V)	2,000.1	µg/mL	+/- +/- +/-	12.6821 90.2292 100.0909	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBF7003V)	2,001.0	µg/mL	+/- +/- +/-	12.6878 90.2698 100.1359	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBS7097V)	2,000.4	µg/mL	+/- +/- +/-	12.6838 90.2412 100.1042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,000.3	µg/mL	+/- +/- +/-	12.6834 90.2382 100.1009	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBD8459V)	2,018.3	µg/mL	+/- +/- +/-	12.7202 91.0388 100.9912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,016.9	µg/mL	+/- +/- +/-	12.7113 90.9748 100.9202	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,000.2	µg/mL	+/- +/- +/-	12.6823 90.2307 100.0925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot MKBJ0332V)	2,000.5	µg/mL	+/- +/- +/-	12.6844 90.2457 100.1092	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,000.3	µg/mL	+/- +/- +/-	12.6834 90.2382 100.1009	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBJ6245V)	2,000.8	µg/mL	+/- +/- +/-	12.6863 90.2593 100.1242	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

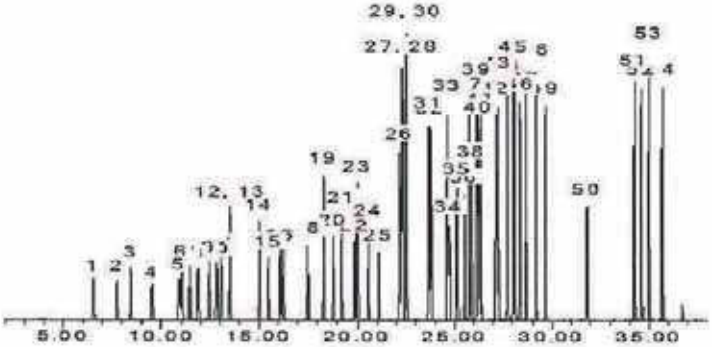
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dawn Brownson - Mix Technician

Date Mixed: 28-Jul-2016 **Balance:** 1125113331

Date Passed: 02-Aug-2016

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

8	Bromochloromethane CAS # 74-97-5 Purity 99%	(Lot 00004559)	2,000.5	µg/mL	+/- +/- +/-	12.6844 90.2457 100.1092	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,1,1-trichloroethane CAS # 71-55-6 Purity 99%	(Lot B15MW0705)	2,016.3	µg/mL	+/- +/- +/-	12.7074 90.9468 100.8891	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,1-Dichloropropene CAS # 563-58-6 Purity 97%	(Lot 4935200)	2,000.7	µg/mL	+/- +/- +/-	12.6858 90.2558 100.1203	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBG1763V)	2,016.6	µg/mL	+/- +/- +/-	12.7095 90.9621 100.9061	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot MKBV4565V)	2,016.4	µg/mL	+/- +/- +/-	12.7081 90.9522 100.8951	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBG7317V)	2,000.5	µg/mL	+/- +/- +/-	12.6846 90.2472 100.1109	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBF0943V)	2,014.8	µg/mL	+/- +/- +/-	12.6979 90.8791 100.8141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot 01113D0V)	2,016.3	µg/mL	+/- +/- +/-	12.7078 90.9495 100.8921	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	bromodichloromethane CAS # 75-27-4 Purity 98%	(Lot MKBL1617V)	2,006.0	µg/mL	+/- +/- +/-	12.6426 90.4832 100.3748	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Dibromomethane CAS # 74-95-3 Purity 98%	(Lot 10183283)	2,000.2	µg/mL	+/- +/- +/-	12.6824 90.2313 100.0932	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 22238)	2,016.7	µg/mL	+/- +/- +/-	12.7101 90.9666 100.9111	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Toluene CAS # 108-88-3 Purity 99%	(Lot MKBV5601V)	2,000.2	µg/mL	+/- +/- +/-	12.6825 90.2322 100.0942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 99%	(Lot C584177)	2,016.0	µg/mL	+/- +/- +/-	12.7059 90.9360 100.8771	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,017.7	µg/mL	+/- +/- +/-	12.7162 91.0099 100.9592	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2,000.5	µg/mL	+/- +/- +/-	12.6846 90.2472 100.1109	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBD9374V)	2,017.3	µg/mL	+/- +/- +/-	12.7136 90.9910 100.9382	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,001.4	µg/mL	+/- +/- +/-	12.6903 90.2878 100.1559	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,001.3	µg/mL	+/- +/- +/-	12.6893 90.2803 100.1476	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ6229V)	2,000.0	µg/mL	+/- +/- +/-	12.6814 90.2239 100.0850	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBK3151V)	2,000.6	µg/mL	+/- +/- +/-	12.6851 90.2502 100.1142	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBS2604V)	2,000.9	µg/mL	+/- +/- +/-	12.6872 90.2653 100.1309	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBM5751V)	2,016.5	µg/mL	+/- +/- +/-	12.7090 90.9585 100.9021	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS1350V)	2,017.5	µg/mL	+/- +/- +/-	12.7152 91.0027 100.9512	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09418JJV)	2,000.3	µg/mL	+/- +/- +/-	12.6830 90.2352 100.0975	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot S52237V)	2,001.0	µg/mL	+/- +/- +/-	12.6874 90.2668 100.1326	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBD7331V)	2,017.4	µg/mL	+/- +/- +/-	12.7147 90.9991 100.9472	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,000.2	µg/mL	+/- +/- +/-	12.6825 90.2322 100.0942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBC5541V)	2,002.3	µg/mL	+/- +/- +/-	12.6956 90.3254 100.1976	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot J31X013)	1,999.9	µg/mL	+/- +/- +/-	12.6805 90.2180 100.0785	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	2,000.7	µg/mL	+/- +/- +/-	12.6859 90.2563 100.1209	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	1,2,3-Trichlorobenzene **CAS #** 87-61-6 **Purity** 99%	(Lot MKBS4859V)	2,000.8	µg/mL	+/- +/- +/-	12.6863 90.2593 100.1242	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Analytical Standard Record

EPA Region 9 Laboratory

1708045

Description:	VOA BFB TUNING CPD	**Expires:**	01/31/22
Standard Type:	Other Solution	**Prepared:**	02/21/17
Solvent:	Solvent Lot #	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	02/21/17 14:15 by YNB
Vendor:	Restek	**Lot Numbe**	A0122289

RESTEK Cat No. 30003, , bar code# AU008923

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene [2C]	460-00-4	5000
4-Bromofluorobenzene	460-00-4	5000

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED ISO Guide 34 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30003 **Lot No.:** A0122289

Description : VOA Tuning Compound Mix

VOA Tuning Compound Mix 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	5,002.0 µg/mL	+/- 29.3545 µg/mL +/- 280.4856 µg/mL +/- 287.0473 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

	AU008920	1708042
VOC	21	43
Extr	22	44
	23	45
	24	46

EDB/DBCP

Analytical Standard Record

EPA Region 9 Laboratory

1716100

Description:	VOA 502/524 VOC Mix, Stock	**Expires:**	08/31/18
Standard Type:	Other Solution	**Prepared:**	04/19/17
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1.15	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/19/17 11:26 by YNB
Vendor:	Supelco	**Lot Numbe**	LC22531V

Supelco, Cat # 502111, Lot# LC22531V, bar code AU009083

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromo-3-chloropropane	96-12-8	2000
1,1,1,2-Tetrachloroethane	630-20-6	2000
Benzene	71-43-2	2000
4-Chlorotoluene	106-43-4	2000
2-Chlorotoluene	95-49-8	2000
2,2-Dichloropropane	594-20-7	2000
1,4-Dichlorobenzene	106-46-7	2000
1,3-Dichloropropane	142-28-9	2000
1,3-Dichlorobenzene	541-73-1	2000
1,3,5-Trimethylbenzene	108-67-8	2000
1,2-Dichloropropane	78-87-5	2000
1,2-Dichloroethane	107-06-2	2000
Bromochloromethane	74-97-5	2000
1,2-Dibromoethane (EDB)	106-93-4	2000
Bromodichloromethane	75-27-4	2000
1,2,4-Trimethylbenzene	95-63-6	2000
1,2,4-Trichlorobenzene	120-82-1	2000
1,2,3-Trimethylbenzene	526-73-8	2000
1,2,3-Trichloropropane	96-18-4	2000
1,2,3-Trichlorobenzene	87-61-6	2000
1,1-Dichloropropene	563-58-6	2000
1,1-Dichloroethene	75-35-4	2000
1,1-Dichloroethane	75-34-3	2000
1,1,2-Trichloroethane	79-00-5	2000
1,1,2,2-Tetrachloroethane	79-34-5	2000
1,1,1-Trichloroethane	71-55-6	2000
1,2-Dichlorobenzene	95-50-1	2000
Hexachlorobutadiene	87-68-3	2000
trans-1,3-Dichloropropene	10061-02-6	2000
trans-1,2-Dichloroethene	156-60-5	2000

Analytical Standard Record

EPA Region 9 Laboratory

1716100

Toluene	108-88-3	2000
Tetrachloroethene	127-18-4	2000
tert-Butylbenzene	98-06-6	2000
Styrene	100-42-5	2000
sec-Butylbenzene	135-98-8	2000
Propylbenzene	103-65-1	2000
p-Isopropyltoluene	99-87-6	2000
o-Xylene	95-47-6	2000
Naphthalene	91-20-3	2000
Bromobenzene	108-86-1	2000
Isopropylbenzene	98-82-8	2000
Trichloroethene	79-01-6	2000
Ethylbenzene	100-41-4	2000
Dichloromethane	75-09-2	2000
Dibromomethane	74-95-3	2000
cis-1,3-Dichloropropene	10061-01-5	2000
cis-1,2-Dichloroethene	156-59-2	2000
Chloroform	67-66-3	2000
Chlorodibromomethane	124-48-1	2000
Chlorobenzene	108-90-7	2000
Carbon tetrachloride	56-23-5	2000
Butylbenzene	104-51-8	2000
Bromoform	75-25-2	2000
m&p-Xylene	179601-23-1	4000

Certificate of Analysis

DESCRIPTION: 502/524 Volatile Organics Calibration Mix

CATALOG NO.: 502111
LOT NO.: LC22531V

MFG DATE: Aug-2016
EXPIRATION DATE: Aug-2018

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3)	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
BENZENE	71-43-2	99.9	2000	1959	+/-	6.8	LC03683
BROMOBENZENE	108-86-1	99.5	2000	1974	+/-	7.5	LB99843
BROMOCHLOROMETHANE	74-97-5	99.3	2000	1944	+/-	24.1	LB39040
BROMODICHLOROMETHANE	75-27-4	98.3	2000	1939	+/-	11.0	LC08591
BROMOFORM	75-25-2	99.9	2000	1965	+/-	13.1	LB80493
CARBON TETRACHLORIDE	56-23-5	99.9	2000	1961	+/-	48.8	LA55583
CHLOROBENZENE	108-90-7	99.9	2000	1964	+/-	10.1	LC05550
CHLOROFORM	67-66-3	98.2	2000	1964	+/-	13.6	LB97804
CIS 1,3-DICHLOROPROPENE (Z)	10061-01-5	99.9	2000	1960	+/-	4.4	LC20110
CIS-1,2-DICHLOROETHYLENE	156-59-2	99.3	2000	1937	+/-	25.3	LB80945
CUMENE	98-82-8	99.9	2001	1966	+/-	8.2	LB89580
DIBROMOCHLOROMETHANE	124-48-1	95.2	2000	1964	+/-	8.9	LB89245
DIBROMOMETHANE	74-95-3	98.9	2000	1948	+/-	11.6	LB81118
DICHLOROMETHANE	75-09-2	99.9	2000	1968	+/-	64.8	LC17906
ETHYLBENZENE	100-41-4	99.9	2000	1961	+/-	5.4	LB69556
HEXACHLOROBUTADIENE	87-68-3	96.6	2000	2047	+/-	26.7	LC19488
M-XYLENE (5)	108-38-3	99.9	2000	*****			LB87531
N-BUTYLBENZENE	104-51-8	99.9	2000	1982	+/-	17.0	LB81630
N-PROPYLBENZENE	103-65-1	99.9	2000	1954	+/-	10.7	LC15896

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

AU009079	1716096
80	097
81	098
82	099
83	100

Duane Funk

Duane Funk
Quality Manager

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.
Supelco is a Sigma-Aldrich Company. Sigma-Aldrich Corp. is a subsidiary of Merck KGaA, Darmstadt, Germany.

SUPELCO
Solutions within.
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 502/524 Volatile Organics Calibration Mix

CATALOG NO.: 502111
LOT NO.: LC22531V

MFG DATE: Aug-2016
EXPIRATION DATE: Aug-2018

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
NAPHTHALENE	91-20-3	99.9	2000	1991	+/-	22.7	LB83148
O-XYLENE	95-47-6	99.9	2001	1982	+/-	6.6	LB63785
P-ISOPROPYLTOLUENE	99-87-6	99.2	2000	1971	+/-	12.7	LB40003
P-XYLENE (5)	106-42-3	99.9	2000	*****			LB73203
SEC-BUTYLBENZENE	135-98-8	99.8	2000	1971	+/-	11.5	LB77150
STYRENE	100-42-5	99.9	2001	1971	+/-	9.0	LC17632
TERT-BUTYLBENZENE	98-06-6	99.8	2000	1966	+/-	13.2	LB40373
TETRACHLOROETHENE	127-18-4	99.9	2000	1985	+/-	11.6	LB67182
TOLUENE	108-88-3	99.9	2000	1954	+/-	9.2	LC14689
TRANS 1,3-DICHLOROPROPENE (E)	10061-02-6	99.3	2000	1950	+/-	13.8	LC11733
TRANS-1,2-DICHLOROETHYLENE	156-60-5	99.6	2000	1956	+/-	87.3	LB82639
TRICHLOROETHYLENE	79-01-6	98.4	2000	1954	+/-	30.7	LB56674
1,1-DICHLOROETHANE	75-34-3	98.0	2000	1983	+/-	50.0	LB68167
1,1-DICHLOROETHYLENE	75-35-4	99.9	2000	1843	+/-	125.5	LC08188
1,1-DICHLOROPROPENE	563-58-6	99.9	2000	1952	+/-	47.8	LC11148
1,1,1-TRICHLOROETHANE	71-55-6	97.2	2000	1939	+/-	32.9	LC06533
1,1,1,2-TETRACHLOROETHANE	630-20-6	99.9	2001	1990	+/-	10.4	LC14810
1,1,2-TRICHLOROETHANE	79-00-5	99.9	2001	1962	+/-	12.7	LB87978
1,1,2,2-TETRACHLOROETHANE	79-34-5	99.9	2000	1969	+/-	15.4	LB51327

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Duane Funk

Duane Funk
Quality Manager

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.
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SUPELCO
Solutions within.™
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 502/524 Volatile Organics Calibration Mix

CATALOG NO.: 502111
LOT NO.: LC22531V

MFG DATE: Aug-2016
EXPIRATION DATE: Aug-2018

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3)	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	98.1	2000	1985	+/-	35.5	LB06608
1,2-DIBROMOETHANE	106-93-4	99.1	2000	1957	+/-	10.8	LB42792
1,2-DICHLOROBENZENE	95-50-1	99.5	2000	1980	+/-	13.7	LB58923
1,2-DICHLOROETHANE	107-06-2	99.9	2000	1960	+/-	32.6	LB74294
1,2-DICHLOROPROPANE	78-87-5	99.9	2000	1966	+/-	8.6	LC14320
1,2,3-TRICHLOROBENZENE	87-61-6	99.9	2000	2009	+/-	25.5	LA50762
1,2,3-TRICHLOROPROPANE	96-18-4	99.4	2000	1976	+/-	14.3	LB82841
1,2,4-TRICHLOROBENZENE	120-82-1	99.4	2000	1986	+/-	22.6	LB48083
1,2,4-TRIMETHYLBENZENE	95-63-6	98.8	2000	1978	+/-	11.1	LB97224
1,3-DICHLOROBENZENE	541-73-1	99.9	2001	1981	+/-	9.4	LB68066
1,3-DICHLOROPROPANE	142-28-9	99.9	2000	1956	+/-	8.8	LC10811
1,3,5-TRIMETHYLBENZENE	108-67-8	99.3	2000	1969	+/-	9.8	LB82157
1,4-DICHLOROBENZENE	106-46-7	99.9	2000	1973	+/-	11.0	LB90630
2-CHLOROTOLUENE	95-49-8	99.9	2000	1970	+/-	11.2	LC01464
2,2-DICHLOROPROPANE	594-20-7	99.9	2000	1946	+/-	32.2	LC11610
4-CHLOROTOLUENE	106-43-4	99.9	2000	1965	+/-	10.6	LC02742

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Duane Funk

Duane Funk
Quality Manager

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SUPELCO
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Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

This Data Sheet Contains Important Information About The Product.

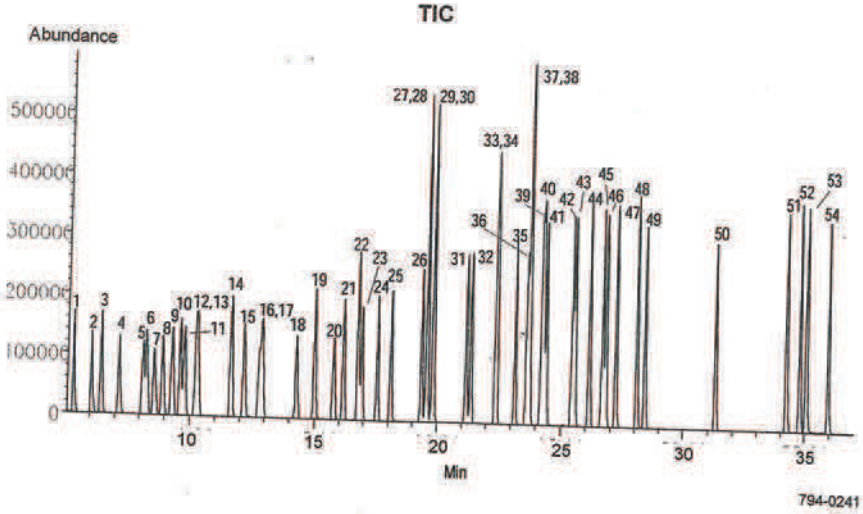
502/524 Volatile Organics Calibration Mix

Catalog No. 502111

This mixture contains 2000µg/mL of each of the following components in methanol:

1. 1,1-Dichloroethylene
2. Methylene chloride
3. trans-1,2-Dichloroethylene
4. 1,1-Dichloroethane
5. 2,2-Dichloropropane
6. cis-1,2-Dichloroethylene
7. Chloroform
8. Bromochloromethane
9. 1,1,1-Trichloroethane
10. 1,1-Dichloropropene
11. Carbon tetrachloride
12. 1,2-Dichloroethane
13. Benzene
14. Trichloroethylene
15. 1,2-Dichloropropane
16. Bromodichloromethane
17. Dibromomethane
18. cis-1,3-Dichloropropene
19. Toluene
20. trans-1,3-Dichloropropene
21. 1,1,2-Trichloroethane
22. Tetrachloroethylene
23. 1,3-Dichloropropane
24. Dibromochloromethane
25. 1,2-Dibromoethane
26. Chlorobenzene
27. Ethylbenzene
28. 1,1,1,2-Tetrachloroethane
29. m-Xylene
30. p-Xylene
31. o-Xylene
32. Styrene
33. Bromoform
34. Isopropylbenzene
35. 1,1,2,2-Tetrachloroethane
36. 1,2,3-Trichloropropane
37. Bromobenzene
38. n-Propylbenzene
39. 2-Chlorotoluene
40. 1,3,5-Trimethylbenzene
41. 4-Chlorotoluene
42. tert-Butylbenzene
43. 1,2,4-Trimethylbenzene
44. sec-Butylbenzene
45. p-Isopropyltoluene
46. 1,3-Dichlorobenzene
47. 1,4-Dichlorobenzene
48. n-Butylbenzene
49. 1,2-Dichlorobenzene
50. 1,2-Dibromo-3-chloropropane
51. 1,2,4-Trichlorobenzene
52. Hexachlorobutadiene
53. Naphthalene
54. 1,2,3-Trichlorobenzene

TIC



Column: **VOCOL™, 105m x 0.53mm ID, 1.0µm film**
Oven: 35°C (4 min) to 200°C at 4°C/min
Carrier: helium, 15mL/min
Det.: MS (m/z = 35-260, 0.4 sec/scan)

T797016
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SUPELCO
Bellefonte, PA

Analytical Standard Record

EPA Region 9 Laboratory

1745037

Description:	Fluorobenzene	Expires:	11/08/27
Standard Type:	Calibration Standa	Prepared:	11/08/17
Solvent:	NA	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	1	Department:	Volatiles
Vials:	1	Last Edit:	11/09/17 10:05 by TD

Cat # F6001-5G-A, AU009657

Analyte	CAS Number	Concentration	Units
Fluorobenzene	462-06-6	1000000	ug/mL

Reviewed By Date

SIGMA-ALDRICH®

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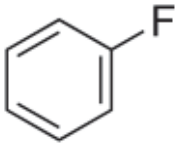
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Fluorobenzene - 99%

Product Number:	**F6001**
Batch Number:	**WXBC3532V**
Brand:	ALDRICH
CAS Number:	462-06-6
Formula:	C6H5F
Formula Weight:	96.10 g/mol
Quality Release Date:	12 SEP 2016



Test	Specification	Result
Appearance (Colour)	Colorless to Faint Yellow	Colorless
Appearance (Form)	Liquid	Liquid
Infrared spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 98.5 %	100.0 %
Color Test	≤ 150 APHA	20 APHA

Steven Chen, Manager
Quality Control
Wuxi, China CN

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Analytical Standard Record

EPA Region 9 Laboratory

1745038

Description:	Passive indoor air Surrogate Stock	Expires:	05/08/18
Standard Type:	Calibration Standa	Prepared:	11/08/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	2	Department:	Volatiles
Vials:	1	Last Edit:	11/08/17 11:34 by TD

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	10000	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1639097	Toluene-d8	09/22/16	Bob Hopeman	05/31/19	09/22/16 14:33 by RH	0.02

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745039

Description:	Passive indoor air Internal Standard Stock	Expires:	05/08/18
Standard Type:	Internal Standard	Prepared:	11/08/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	2	Department:	Volatiles
Vials:	1	Last Edit:	11/08/17 11:35 by TD

Analyte	CAS Number	Concentration	Units
2-Fluorotoluene	95-52-3	10000	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1639096	2-Fluorotoluene	09/22/16	** Vendor **	12/31/29	09/22/17 11:57 by TD	0.02

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745040

Description:	Passive indoor air Fluorobenzene Stock	Expires:	05/08/18
Standard Type:	Internal Standard	Prepared:	11/08/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	2	Department:	Volatiles
Vials:	1	Last Edit:	11/08/17 12:04 by TD

Analyte	CAS Number	Concentration	Units
Fluorobenzene	462-06-6	10000	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1745037	Fluorobenzene	11/08/17	Tatyana Dadiomov	11/08/27	11/08/17 11:31 by TD	0.02

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745041

Description:	Passive air Surrogate/I.S. Working solution	Expires:	05/08/18
Standard Type:	Surrogate Spike	Prepared:	11/08/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	25	Department:	Volatiles
Vials:	1	Last Edit:	11/08/17 12:06 by TD

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	200	ug/mL
Fluorobenzene	462-06-6	200	ug/mL
2-Fluorotoluene	95-52-3	200	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1745040	Passive indoor air Fluorobenzene Stock	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 12:04 by TD	0.5
1745039	Passive indoor air Internal Standard Sto	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 11:35 by TD	0.5
1745038	Passive indoor air Surrogate Stock	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 11:34 by TD	0.5

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745051

Description:	Passive indoor air SCV	Expires:	05/08/18
Standard Type:	Calibration Standa	Prepared:	11/09/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	11/09/17 07:06 by TD

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	5	ug/mL
Bromobenzene	108-86-1	5	ug/mL
Benzene	71-43-2	5	ug/mL
4-Chlorotoluene	106-43-4	5	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	5	ug/mL
2,2-Dichloropropane	594-20-7	5	ug/mL
1,4-Dichlorobenzene	106-46-7	5	ug/mL
1,3-Dichloropropane	142-28-9	5	ug/mL
1,3-Dichlorobenzene	541-73-1	5	ug/mL
1,3,5-Trimethylbenzene	108-67-8	5	ug/mL
1,2-Dichloropropane	78-87-5	5	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/mL
1,2-Dichlorobenzene	95-50-1	5	ug/mL
Bromoform	75-25-2	5	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	5	ug/mL
1,2,4-Trimethylbenzene	95-63-6	5	ug/mL
1,2,4-Trichlorobenzene	120-82-1	5	ug/mL
1,2,3-Trimethylbenzene	526-73-8	5	ug/mL
1,2,3-Trichloropropane	96-18-4	5	ug/mL
1,2,3-Trichlorobenzene	87-61-6	5	ug/mL
1,1-Dichloropropene	563-58-6	5	ug/mL
1,1-Dichloroethene	75-35-4	5	ug/mL
1,1-Dichloroethane	75-34-3	5	ug/mL
1,1,2-Trichloroethane	79-00-5	5	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/mL
1,1,1-Trichloroethane	71-55-6	5	ug/mL
1,2-Dichloroethane	107-06-2	5	ug/mL
Hexachlorobutadiene	87-68-3	5	ug/mL
trans-1,3-Dichloropropene	10061-02-6	5	ug/mL
trans-1,2-Dichloroethene	156-60-5	5	ug/mL
Toluene-d8	2037-26-5	5	ug/mL
Toluene	108-88-3	5	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745051

Tetrachloroethene	127-18-4	5	ug/mL
tert-Butylbenzene	98-06-6	5	ug/mL
Styrene	100-42-5	5	ug/mL
sec-Butylbenzene	135-98-8	5	ug/mL
Propylbenzene	103-65-1	5	ug/mL
p-Isopropyltoluene	99-87-6	5	ug/mL
o-Xylene	95-47-6	5	ug/mL
Naphthalene	91-20-3	5	ug/mL
Bromochloromethane	74-97-5	5	ug/mL
Isopropylbenzene	98-82-8	5	ug/mL
Bromodichloromethane	75-27-4	5	ug/mL
Fluorobenzene	462-06-6	5	ug/mL
Ethylbenzene	100-41-4	5	ug/mL
Dichloromethane	75-09-2	5	ug/mL
Dibromomethane	74-95-3	5	ug/mL
cis-1,3-Dichloropropene	10061-01-5	5	ug/mL
cis-1,2-Dichloroethene	156-59-2	5	ug/mL
Chloroform	67-66-3	5	ug/mL
Chlorodibromomethane	124-48-1	5	ug/mL
Chlorobenzene	108-90-7	5	ug/mL
Carbon tetrachloride	56-23-5	5	ug/mL
Butylbenzene	104-51-8	5	ug/mL
Trichloroethene	79-01-6	5	ug/mL
m&p-Xylene	179601-23-1	10	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
1716100	VOA 502/524 VOC Mix, Stock	04/19/17	** Vendor **	08/31/18	04/19/17 11:26 by YNB	0.02
1745041	Passive air Surrogate/I.S. Working solu	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 12:06 by TD	0.2

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745072

Description:	Passive indoor air stock std 50	Expires:	05/08/18
Standard Type:	Analyte Spike	Prepared:	11/10/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	20	Department:	Volatiles
Vials:	1	Last Edit:	11/10/17 06:26 by TD

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	50	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	50	ug/mL
Bromobenzene	108-86-1	50	ug/mL
Benzene	71-43-2	50	ug/mL
4-Chlorotoluene	106-43-4	50	ug/mL
2-Chlorotoluene	95-49-8	50	ug/mL
2,2-Dichloropropane	594-20-7	50	ug/mL
1,4-Dichlorobenzene	106-46-7	50	ug/mL
1,3-Dichloropropane	142-28-9	50	ug/mL
1,3-Dichlorobenzene	541-73-1	50	ug/mL
1,3,5-Trimethylbenzene	108-67-8	50	ug/mL
1,2-Dichloropropane	78-87-5	50	ug/mL
Bromodichloromethane	75-27-4	50	ug/mL
1,2-Dichlorobenzene	95-50-1	50	ug/mL
Bromoform	75-25-2	50	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	50	ug/mL
1,2,4-Trimethylbenzene	95-63-6	50	ug/mL
1,2,4-Trichlorobenzene	120-82-1	50	ug/mL
1,2,3-Trichloropropane	96-18-4	50	ug/mL
1,2,3-Trichlorobenzene	87-61-6	50	ug/mL
1,1-Dichloropropene	563-58-6	50	ug/mL
1,1-Dichloroethene	75-35-4	50	ug/mL
1,1-Dichloroethane	75-34-3	50	ug/mL
1,1,2-Trichloroethane	79-00-5	50	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	50	ug/mL
1,1,1-Trichloroethane	71-55-6	50	ug/mL
1,2-Dichloroethane	107-06-2	50	ug/mL
Isopropylbenzene	98-82-8	50	ug/mL
trans-1,3-Dichloropropene	10061-02-6	50	ug/mL
trans-1,2-Dichloroethene	156-60-5	50	ug/mL
Toluene-d8	2037-26-5	50	ug/mL
Toluene	108-88-3	50	ug/mL
Tetrachloroethene	127-18-4	50	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745072

tert-Butylbenzene	98-06-6	50	ug/mL
Styrene	100-42-5	50	ug/mL
sec-Butylbenzene	135-98-8	50	ug/mL
Propylbenzene	103-65-1	50	ug/mL
p-Isopropyltoluene	99-87-6	50	ug/mL
o-Xylene	95-47-6	50	ug/mL
Bromochloromethane	74-97-5	50	ug/mL
m&p-Xylene	179601-23-1	100	ug/mL
Trichloroethene	79-01-6	50	ug/mL
Hexachlorobutadiene	87-68-3	50	ug/mL
Ethylbenzene	100-41-4	50	ug/mL
Dichloromethane	75-09-2	50	ug/mL
Dibromomethane	74-95-3	50	ug/mL
cis-1,3-Dichloropropene	10061-01-5	50	ug/mL
cis-1,2-Dichloroethene	156-59-2	50	ug/mL
Chloroform	67-66-3	50	ug/mL
Chlorodibromomethane	124-48-1	50	ug/mL
Chlorobenzene	108-90-7	50	ug/mL
Carbon tetrachloride	56-23-5	50	ug/mL
Butylbenzene	104-51-8	50	ug/mL
Naphthalene	91-20-3	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
1652065	VOA 502.2 CAL 2000 MEGA MIX, St	12/20/16	** Vendor **	07/31/18	12/20/16 11:14 by YNB	0
1745038	Passive indoor air Surrogate Stock	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 11:34 by TD	0

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745073

Description:	Passive indoor air 25	Expires:	05/08/18
Standard Type:	Calibration Standa	Prepared:	11/10/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	11/10/17 06:27 by TD

Analyte	CAS Number	Concentration	Units
1,2-Dichlorobenzene	95-50-1	25	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	25	ug/mL
Bromobenzene	108-86-1	25	ug/mL
Benzene	71-43-2	25	ug/mL
4-Chlorotoluene	106-43-4	25	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	25	ug/mL
2,2-Dichloropropane	594-20-7	25	ug/mL
1,4-Dichlorobenzene	106-46-7	25	ug/mL
1,3-Dichloropropane	142-28-9	25	ug/mL
1,3-Dichlorobenzene	541-73-1	25	ug/mL
1,3,5-Trimethylbenzene	108-67-8	25	ug/mL
Bromodichloromethane	75-27-4	25	ug/mL
1,2-Dichloroethane	107-06-2	25	ug/mL
Bromoform	75-25-2	25	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	25	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	25	ug/mL
1,2,4-Trimethylbenzene	95-63-6	25	ug/mL
1,2,4-Trichlorobenzene	120-82-1	25	ug/mL
1,2,3-Trichloropropane	96-18-4	25	ug/mL
1,2,3-Trichlorobenzene	87-61-6	25	ug/mL
1,1-Dichloropropene	563-58-6	25	ug/mL
1,1-Dichloroethene	75-35-4	25	ug/mL
1,1-Dichloroethane	75-34-3	25	ug/mL
1,1,2-Trichloroethane	79-00-5	25	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	25	ug/mL
1,1,1-Trichloroethane	71-55-6	25	ug/mL
1,2-Dichloropropane	78-87-5	25	ug/mL
Isopropylbenzene	98-82-8	25	ug/mL
trans-1,3-Dichloropropene	10061-02-6	25	ug/mL
trans-1,2-Dichloroethene	156-60-5	25	ug/mL
Toluene-d8	2037-26-5	25	ug/mL
Toluene	108-88-3	25	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745073

Tetrachloroethene	127-18-4	25	ug/mL
tert-Butylbenzene	98-06-6	25	ug/mL
Styrene	100-42-5	25	ug/mL
sec-Butylbenzene	135-98-8	25	ug/mL
Propylbenzene	103-65-1	25	ug/mL
p-Isopropyltoluene	99-87-6	25	ug/mL
o-Xylene	95-47-6	25	ug/mL
Bromochloromethane	74-97-5	25	ug/mL
m&p-Xylene	179601-23-1	50	ug/mL
Trichloroethene	79-01-6	25	ug/mL
Hexachlorobutadiene	87-68-3	25	ug/mL
Fluorobenzene	462-06-6	5	ug/mL
Ethylbenzene	100-41-4	25	ug/mL
Dichloromethane	75-09-2	25	ug/mL
Dibromomethane	74-95-3	25	ug/mL
cis-1,3-Dichloropropene	10061-01-5	25	ug/mL
cis-1,2-Dichloroethene	156-59-2	25	ug/mL
Chloroform	67-66-3	25	ug/mL
Chlorodibromomethane	124-48-1	25	ug/mL
Chlorobenzene	108-90-7	25	ug/mL
Carbon tetrachloride	56-23-5	25	ug/mL
Butylbenzene	104-51-8	25	ug/mL
Naphthalene	91-20-3	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
1745039	Passive indoor air Internal Standard Sto	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 11:35 by TD	0.0(
1745040	Passive indoor air Fluorobenzene Stock	11/08/17	Tatyana Dadiomov	05/08/18	11/09/17 10:05 by TD	0.0(
1745072	Passive indoor air stock std 50	11/10/17	Tatyana Dadiomov	05/08/18	11/10/17 06:26 by TD	

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745074

Description:	Passive indoor air 10	Expires:	05/08/18
Standard Type:	Calibration Standa	Prepared:	11/10/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	11/10/17 06:29 by TD

Analyte	CAS Number	Concentration	Units
1,2-Dichlorobenzene	95-50-1	10	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	10	ug/mL
Bromobenzene	108-86-1	10	ug/mL
Benzene	71-43-2	10	ug/mL
4-Chlorotoluene	106-43-4	10	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	10	ug/mL
2,2-Dichloropropane	594-20-7	10	ug/mL
1,4-Dichlorobenzene	106-46-7	10	ug/mL
1,3-Dichloropropane	142-28-9	10	ug/mL
1,3-Dichlorobenzene	541-73-1	10	ug/mL
1,3,5-Trimethylbenzene	108-67-8	10	ug/mL
Bromodichloromethane	75-27-4	10	ug/mL
1,2-Dichloroethane	107-06-2	10	ug/mL
Bromoform	75-25-2	10	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	10	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	10	ug/mL
1,2,4-Trimethylbenzene	95-63-6	10	ug/mL
1,2,4-Trichlorobenzene	120-82-1	10	ug/mL
1,2,3-Trichloropropane	96-18-4	10	ug/mL
1,2,3-Trichlorobenzene	87-61-6	10	ug/mL
1,1-Dichloropropene	563-58-6	10	ug/mL
1,1-Dichloroethene	75-35-4	10	ug/mL
1,1-Dichloroethane	75-34-3	10	ug/mL
1,1,2-Trichloroethane	79-00-5	10	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	10	ug/mL
1,1,1-Trichloroethane	71-55-6	10	ug/mL
1,2-Dichloropropane	78-87-5	10	ug/mL
Isopropylbenzene	98-82-8	10	ug/mL
trans-1,3-Dichloropropene	10061-02-6	10	ug/mL
trans-1,2-Dichloroethene	156-60-5	10	ug/mL
Toluene-d8	2037-26-5	10	ug/mL
Toluene	108-88-3	10	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745074

Tetrachloroethene	127-18-4	10	ug/mL
tert-Butylbenzene	98-06-6	10	ug/mL
Styrene	100-42-5	10	ug/mL
sec-Butylbenzene	135-98-8	10	ug/mL
Propylbenzene	103-65-1	10	ug/mL
p-Isopropyltoluene	99-87-6	10	ug/mL
o-Xylene	95-47-6	10	ug/mL
Bromochloromethane	74-97-5	10	ug/mL
m&p-Xylene	179601-23-1	20	ug/mL
Trichloroethene	79-01-6	10	ug/mL
Hexachlorobutadiene	87-68-3	10	ug/mL
Fluorobenzene	462-06-6	5	ug/mL
Ethylbenzene	100-41-4	10	ug/mL
Dichloromethane	75-09-2	10	ug/mL
Dibromomethane	74-95-3	10	ug/mL
cis-1,3-Dichloropropene	10061-01-5	10	ug/mL
cis-1,2-Dichloroethene	156-59-2	10	ug/mL
Chloroform	67-66-3	10	ug/mL
Chlorodibromomethane	124-48-1	10	ug/mL
Chlorobenzene	108-90-7	10	ug/mL
Carbon tetrachloride	56-23-5	10	ug/mL
Butylbenzene	104-51-8	10	ug/mL
Naphthalene	91-20-3	10	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
1745039	Passive indoor air Internal Standard Sto	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 11:35 by TD	0.0(
1745040	Passive indoor air Fluorobenzene Stock	11/08/17	Tatyana Dadiomov	05/08/18	11/09/17 10:05 by TD	0.0(
1745072	Passive indoor air stock std 50	11/10/17	Tatyana Dadiomov	05/08/18	11/10/17 06:26 by TD	

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745075

Description:	Passive indoor air 5	Expires:	05/08/18
Standard Type:	Calibration Standa	Prepared:	11/10/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	11/10/17 06:30 by TD

Analyte	CAS Number	Concentration	Units
1,2-Dichlorobenzene	95-50-1	5	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/mL
Bromobenzene	108-86-1	5	ug/mL
Benzene	71-43-2	5	ug/mL
4-Chlorotoluene	106-43-4	5	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	5	ug/mL
2,2-Dichloropropane	594-20-7	5	ug/mL
1,4-Dichlorobenzene	106-46-7	5	ug/mL
1,3-Dichloropropane	142-28-9	5	ug/mL
1,3-Dichlorobenzene	541-73-1	5	ug/mL
1,3,5-Trimethylbenzene	108-67-8	5	ug/mL
Bromodichloromethane	75-27-4	5	ug/mL
1,2-Dichloroethane	107-06-2	5	ug/mL
Bromoform	75-25-2	5	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	5	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	5	ug/mL
1,2,4-Trimethylbenzene	95-63-6	5	ug/mL
1,2,4-Trichlorobenzene	120-82-1	5	ug/mL
1,2,3-Trichloropropane	96-18-4	5	ug/mL
1,2,3-Trichlorobenzene	87-61-6	5	ug/mL
1,1-Dichloropropene	563-58-6	5	ug/mL
1,1-Dichloroethene	75-35-4	5	ug/mL
1,1-Dichloroethane	75-34-3	5	ug/mL
1,1,2-Trichloroethane	79-00-5	5	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/mL
1,1,1-Trichloroethane	71-55-6	5	ug/mL
1,2-Dichloropropane	78-87-5	5	ug/mL
Isopropylbenzene	98-82-8	5	ug/mL
trans-1,3-Dichloropropene	10061-02-6	5	ug/mL
trans-1,2-Dichloroethene	156-60-5	5	ug/mL
Toluene-d8	2037-26-5	5	ug/mL
Toluene	108-88-3	5	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745075

Tetrachloroethene	127-18-4	5	ug/mL
tert-Butylbenzene	98-06-6	5	ug/mL
Styrene	100-42-5	5	ug/mL
sec-Butylbenzene	135-98-8	5	ug/mL
Propylbenzene	103-65-1	5	ug/mL
p-Isopropyltoluene	99-87-6	5	ug/mL
o-Xylene	95-47-6	5	ug/mL
Bromochloromethane	74-97-5	5	ug/mL
m&p-Xylene	179601-23-1	10	ug/mL
Trichloroethene	79-01-6	5	ug/mL
Hexachlorobutadiene	87-68-3	5	ug/mL
Fluorobenzene	462-06-6	5	ug/mL
Ethylbenzene	100-41-4	5	ug/mL
Dichloromethane	75-09-2	5	ug/mL
Dibromomethane	74-95-3	5	ug/mL
cis-1,3-Dichloropropene	10061-01-5	5	ug/mL
cis-1,2-Dichloroethene	156-59-2	5	ug/mL
Chloroform	67-66-3	5	ug/mL
Chlorodibromomethane	124-48-1	5	ug/mL
Chlorobenzene	108-90-7	5	ug/mL
Carbon tetrachloride	56-23-5	5	ug/mL
Butylbenzene	104-51-8	5	ug/mL
Naphthalene	91-20-3	5	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
1745039	Passive indoor air Internal Standard Sto	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 11:35 by TD	0.0(
1745040	Passive indoor air Fluorobenzene Stock	11/08/17	Tatyana Dadiomov	05/08/18	11/09/17 10:05 by TD	0.0(
1745072	Passive indoor air stock std 50	11/10/17	Tatyana Dadiomov	05/08/18	11/10/17 06:26 by TD	

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745076

Description:	Passive indoor air 1	Expires:	05/08/18
Standard Type:	Calibration Standa	Prepared:	11/10/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	11/10/17 06:30 by TD

Analyte	CAS Number	Concentration	Units
1,2-Dichlorobenzene	95-50-1	1	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	1	ug/mL
Bromobenzene	108-86-1	1	ug/mL
Benzene	71-43-2	1	ug/mL
4-Chlorotoluene	106-43-4	1	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	1	ug/mL
2,2-Dichloropropane	594-20-7	1	ug/mL
1,4-Dichlorobenzene	106-46-7	1	ug/mL
1,3-Dichloropropane	142-28-9	1	ug/mL
1,3-Dichlorobenzene	541-73-1	1	ug/mL
1,3,5-Trimethylbenzene	108-67-8	1	ug/mL
Bromodichloromethane	75-27-4	1	ug/mL
1,2-Dichloroethane	107-06-2	1	ug/mL
Bromoform	75-25-2	1	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	1	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	1	ug/mL
1,2,4-Trimethylbenzene	95-63-6	1	ug/mL
1,2,4-Trichlorobenzene	120-82-1	1	ug/mL
1,2,3-Trichloropropane	96-18-4	1	ug/mL
1,2,3-Trichlorobenzene	87-61-6	1	ug/mL
1,1-Dichloropropene	563-58-6	1	ug/mL
1,1-Dichloroethene	75-35-4	1	ug/mL
1,1-Dichloroethane	75-34-3	1	ug/mL
1,1,2-Trichloroethane	79-00-5	1	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	1	ug/mL
1,1,1-Trichloroethane	71-55-6	1	ug/mL
1,2-Dichloropropane	78-87-5	1	ug/mL
Isopropylbenzene	98-82-8	1	ug/mL
trans-1,3-Dichloropropene	10061-02-6	1	ug/mL
trans-1,2-Dichloroethene	156-60-5	1	ug/mL
Toluene-d8	2037-26-5	1	ug/mL
Toluene	108-88-3	1	ug/mL

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Analytical Standard Record

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1745076

Tetrachloroethene	127-18-4	1	ug/mL
tert-Butylbenzene	98-06-6	1	ug/mL
Styrene	100-42-5	1	ug/mL
sec-Butylbenzene	135-98-8	1	ug/mL
Propylbenzene	103-65-1	1	ug/mL
p-Isopropyltoluene	99-87-6	1	ug/mL
o-Xylene	95-47-6	1	ug/mL
Bromochloromethane	74-97-5	1	ug/mL
m&p-Xylene	179601-23-1	2	ug/mL
Trichloroethene	79-01-6	1	ug/mL
Hexachlorobutadiene	87-68-3	1	ug/mL
Fluorobenzene	462-06-6	5	ug/mL
Ethylbenzene	100-41-4	1	ug/mL
Dichloromethane	75-09-2	1	ug/mL
Dibromomethane	74-95-3	1	ug/mL
cis-1,3-Dichloropropene	10061-01-5	1	ug/mL
cis-1,2-Dichloroethene	156-59-2	1	ug/mL
Chloroform	67-66-3	1	ug/mL
Chlorodibromomethane	124-48-1	1	ug/mL
Chlorobenzene	108-90-7	1	ug/mL
Carbon tetrachloride	56-23-5	1	ug/mL
Butylbenzene	104-51-8	1	ug/mL
Naphthalene	91-20-3	1	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
1745039	Passive indoor air Internal Standard Sto	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 11:35 by TD	0.0(
1745040	Passive indoor air Fluorobenzene Stock	11/08/17	Tatyana Dadiomov	05/08/18	11/09/17 10:05 by TD	0.0(
1745072	Passive indoor air stock std 50	11/10/17	Tatyana Dadiomov	05/08/18	11/10/17 06:26 by TD	0

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745077

Description:	Passive indoor air 0.15	Expires:	05/08/18
Standard Type:	Calibration Standa	Prepared:	11/10/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	11/10/17 06:31 by TD

Analyte	CAS Number	Concentration	Units
1,2-Dichlorobenzene	95-50-1	0.15	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	0.15	ug/mL
Bromobenzene	108-86-1	0.15	ug/mL
Benzene	71-43-2	0.15	ug/mL
4-Chlorotoluene	106-43-4	0.15	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	0.15	ug/mL
2,2-Dichloropropane	594-20-7	0.15	ug/mL
1,4-Dichlorobenzene	106-46-7	0.15	ug/mL
1,3-Dichloropropane	142-28-9	0.15	ug/mL
1,3-Dichlorobenzene	541-73-1	0.15	ug/mL
1,3,5-Trimethylbenzene	108-67-8	0.15	ug/mL
Bromodichloromethane	75-27-4	0.15	ug/mL
1,2-Dichloroethane	107-06-2	0.15	ug/mL
Bromoform	75-25-2	0.15	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	0.15	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	0.15	ug/mL
1,2,4-Trimethylbenzene	95-63-6	0.15	ug/mL
1,2,4-Trichlorobenzene	120-82-1	0.15	ug/mL
1,2,3-Trichloropropane	96-18-4	0.15	ug/mL
1,2,3-Trichlorobenzene	87-61-6	0.15	ug/mL
1,1-Dichloropropene	563-58-6	0.15	ug/mL
1,1-Dichloroethene	75-35-4	0.15	ug/mL
1,1-Dichloroethane	75-34-3	0.15	ug/mL
1,1,2-Trichloroethane	79-00-5	0.15	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	0.15	ug/mL
1,1,1-Trichloroethane	71-55-6	0.15	ug/mL
1,2-Dichloropropane	78-87-5	0.15	ug/mL
Isopropylbenzene	98-82-8	0.15	ug/mL
trans-1,3-Dichloropropene	10061-02-6	0.15	ug/mL
trans-1,2-Dichloroethene	156-60-5	0.15	ug/mL
Toluene-d8	2037-26-5	0.15	ug/mL
Toluene	108-88-3	0.15	ug/mL

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745077

Tetrachloroethene	127-18-4	0.15	ug/mL
tert-Butylbenzene	98-06-6	0.15	ug/mL
Styrene	100-42-5	0.15	ug/mL
sec-Butylbenzene	135-98-8	0.15	ug/mL
Propylbenzene	103-65-1	0.15	ug/mL
p-Isopropyltoluene	99-87-6	0.15	ug/mL
o-Xylene	95-47-6	0.15	ug/mL
Bromochloromethane	74-97-5	0.15	ug/mL
m&p-Xylene	179601-23-1	0.3	ug/mL
Trichloroethene	79-01-6	0.15	ug/mL
Hexachlorobutadiene	87-68-3	0.15	ug/mL
Fluorobenzene	462-06-6	5	ug/mL
Ethylbenzene	100-41-4	0.15	ug/mL
Dichloromethane	75-09-2	0.15	ug/mL
Dibromomethane	74-95-3	0.15	ug/mL
cis-1,3-Dichloropropene	10061-01-5	0.15	ug/mL
cis-1,2-Dichloroethene	156-59-2	0.15	ug/mL
Chloroform	67-66-3	0.15	ug/mL
Chlorodibromomethane	124-48-1	0.15	ug/mL
Chlorobenzene	108-90-7	0.15	ug/mL
Carbon tetrachloride	56-23-5	0.15	ug/mL
Butylbenzene	104-51-8	0.15	ug/mL
Naphthalene	91-20-3	0.15	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
1745039	Passive indoor air Internal Standard Sto	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 11:35 by TD	0.0(
1745040	Passive indoor air Fluorobenzene Stock	11/08/17	Tatyana Dadiomov	05/08/18	11/09/17 10:05 by TD	0.0(
1745072	Passive indoor air stock std 50	11/10/17	Tatyana Dadiomov	05/08/18	11/10/17 06:26 by TD	0.(

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1745078

Description:	Passive indoor air 0.05	Expires:	05/08/18
Standard Type:	Calibration Standa	Prepared:	11/10/17
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	10	Department:	Volatiles
Vials:	1	Last Edit:	11/10/17 06:31 by TD

Analyte	CAS Number	Concentration	Units
1,2-Dichlorobenzene	95-50-1	0.05	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	0.05	ug/mL
Bromobenzene	108-86-1	0.05	ug/mL
Benzene	71-43-2	0.05	ug/mL
4-Chlorotoluene	106-43-4	0.05	ug/mL
2-Fluorotoluene	95-52-3	5	ug/mL
2-Chlorotoluene	95-49-8	0.05	ug/mL
2,2-Dichloropropane	594-20-7	0.05	ug/mL
1,4-Dichlorobenzene	106-46-7	0.05	ug/mL
1,3-Dichloropropane	142-28-9	0.05	ug/mL
1,3-Dichlorobenzene	541-73-1	0.05	ug/mL
1,3,5-Trimethylbenzene	108-67-8	0.05	ug/mL
Bromodichloromethane	75-27-4	0.05	ug/mL
1,2-Dichloroethane	107-06-2	0.05	ug/mL
Bromoform	75-25-2	0.05	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	0.05	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	0.05	ug/mL
1,2,4-Trimethylbenzene	95-63-6	0.05	ug/mL
1,2,4-Trichlorobenzene	120-82-1	0.05	ug/mL
1,2,3-Trichloropropane	96-18-4	0.05	ug/mL
1,2,3-Trichlorobenzene	87-61-6	0.05	ug/mL
1,1-Dichloropropene	563-58-6	0.05	ug/mL
1,1-Dichloroethene	75-35-4	0.05	ug/mL
1,1-Dichloroethane	75-34-3	0.05	ug/mL
1,1,2-Trichloroethane	79-00-5	0.05	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	0.05	ug/mL
1,1,1-Trichloroethane	71-55-6	0.05	ug/mL
1,2-Dichloropropane	78-87-5	0.05	ug/mL
Isopropylbenzene	98-82-8	0.05	ug/mL
trans-1,3-Dichloropropene	10061-02-6	0.05	ug/mL
trans-1,2-Dichloroethene	156-60-5	0.05	ug/mL
Toluene-d8	2037-26-5	0.05	ug/mL
Toluene	108-88-3	0.05	ug/mL

Reviewed By Date

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1745078

Tetrachloroethene	127-18-4	0.05	ug/mL
tert-Butylbenzene	98-06-6	0.05	ug/mL
Styrene	100-42-5	0.05	ug/mL
sec-Butylbenzene	135-98-8	0.05	ug/mL
Propylbenzene	103-65-1	0.05	ug/mL
p-Isopropyltoluene	99-87-6	0.05	ug/mL
o-Xylene	95-47-6	0.05	ug/mL
Bromochloromethane	74-97-5	0.05	ug/mL
m&p-Xylene	179601-23-1	0.1	ug/mL
Trichloroethene	79-01-6	0.05	ug/mL
Hexachlorobutadiene	87-68-3	0.05	ug/mL
Fluorobenzene	462-06-6	5	ug/mL
Ethylbenzene	100-41-4	0.05	ug/mL
Dichloromethane	75-09-2	0.05	ug/mL
Dibromomethane	74-95-3	0.05	ug/mL
cis-1,3-Dichloropropene	10061-01-5	0.05	ug/mL
cis-1,2-Dichloroethene	156-59-2	0.05	ug/mL
Chloroform	67-66-3	0.05	ug/mL
Chlorodibromomethane	124-48-1	0.05	ug/mL
Chlorobenzene	108-90-7	0.05	ug/mL
Carbon tetrachloride	56-23-5	0.05	ug/mL
Butylbenzene	104-51-8	0.05	ug/mL
Naphthalene	91-20-3	0.05	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(ml
1745039	Passive indoor air Internal Standard Sto	11/08/17	Tatyana Dadiomov	05/08/18	11/08/17 11:35 by TD	0.00
1745040	Passive indoor air Fluorobenzene Stock	11/08/17	Tatyana Dadiomov	05/08/18	11/09/17 10:05 by TD	0.00
1745072	Passive indoor air stock std 50	11/10/17	Tatyana Dadiomov	05/08/18	11/10/17 06:26 by TD	0.0

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1806045

Description:	passive air WORKING BFB 50 mg/L	**Expires:**	08/07/18
Standard Type:	Other Solution	**Prepared:**	02/07/18
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	5	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/06/18 16:39 by RH
Vendor:	*Prepared*	**Lot Numbe**	1748145

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene [2C]	460-00-4	50
4-Bromofluorobenzene	460-00-4	50

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1708045	VOA BFB TUNING CPD	02/21/17	** Vendor **	01/31/22	02/06/18 16:38 by RH	0.05

Analytical Standard Record

EPA Region 9 Laboratory

1806048

Description:	Passive indoor air MRL Spike	**Expires:**	07/31/18
Standard Type:	Other Solution	**Prepared:**	02/07/18
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/07/18 09:47 by RH
Vendor:	*Prepared*	**Lot Numbe**	1748145

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	20
Bromobenzene	108-86-1	20
Benzene	71-43-2	20
4-Chlorotoluene	106-43-4	20
2-Chlorotoluene	95-49-8	20
2,2-Dichloropropane	594-20-7	20
1,4-Dichlorobenzene	106-46-7	20
1,3-Dichloropropane	142-28-9	20
1,3-Dichlorobenzene	541-73-1	20
1,3,5-Trimethylbenzene	108-67-8	20
1,2-Dichloropropane	78-87-5	20
1,1,1,2-Tetrachloroethane	630-20-6	20
1,2-Dichlorobenzene	95-50-1	20
Bromoform	75-25-2	20
1,2-Dibromo-3-chloropropane	96-12-8	20
1,2,4-Trimethylbenzene	95-63-6	20
1,2,4-Trichlorobenzene	120-82-1	20
1,2,3-Trichloropropane	96-18-4	20
1,2,3-Trichlorobenzene	87-61-6	20
1,1-Dichloropropene	563-58-6	20
1,1-Dichloroethene	75-35-4	20
1,1-Dichloroethane	75-34-3	20
1,1,2-Trichloroethane	79-00-5	20
1,1,2,2-Tetrachloroethane	79-34-5	20
1,1,1-Trichloroethane	71-55-6	20
1,2-Dichloroethane	107-06-2	20
Hexachlorobutadiene	87-68-3	20
trans-1,3-Dichloropropene	10061-02-6	20
trans-1,2-Dichloroethene	156-60-5	20
Toluene	108-88-3	20

Analytical Standard Record

EPA Region 9 Laboratory

1806048

Tetrachloroethene	127-18-4	20
tert-Butylbenzene	98-06-6	20
Styrene	100-42-5	20
sec-Butylbenzene	135-98-8	20
Propylbenzene	103-65-1	20
p-Isopropyltoluene	99-87-6	20
o-Xylene	95-47-6	20
Naphthalene	91-20-3	20
Bromochloromethane	74-97-5	20
Isopropylbenzene	98-82-8	20
Bromodichloromethane	75-27-4	20
Ethylbenzene	100-41-4	20
Dichloromethane	75-09-2	20
Dibromomethane	74-95-3	20
cis-1,3-Dichloropropene	10061-01-5	20
cis-1,2-Dichloroethene	156-59-2	20
Chloroform	67-66-3	20
Chlorodibromomethane	124-48-1	20
Chlorobenzene	108-90-7	20
Carbon tetrachloride	56-23-5	20
Butylbenzene	104-51-8	20
Trichloroethene	79-01-6	20
m&p-Xylene	179601-23-1	40

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1652067	VOA 502.2 CAL 2000 MEGA MIX, St	12/20/16	** Vendor **	07/31/18	12/20/16 11:14 by YNB	0.02