

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092118\
 Data File : VU026937.D
 Acq On : 20 Sep 2018 14:39
 Operator : MD/SY
 Sample : J4893-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C08K6

Manual Integrations
 APPROVED

sam
 9/28/2018 4:05:31 PM

Quant Time: Sep 27 08:02:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091718WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 21 04:24:07 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	286358	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.10	117	287577	50.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	11.49	152	176472	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	75977	35.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	71.74%
7) Chloroethane-d5	1.68	69	65472	36.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	72.22%
11) 1,1-Dichloroethene-d2	2.27	63	108058	26.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	53.92%#
21) 2-Butanone-d5	4.18	46	107663	76.59	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	76.59%
24) Chloroform-d	4.65	84	132303	33.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	67.34%#
26) 1,2-Dichloroethane-d4	5.31	65	84620	34.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	68.40%#
32) Benzene-d6	5.35	84	280495	34.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	69.60%#
36) 1,2-Dichloropropane-d6	6.33	67	86233	33.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	66.42%#
41) Toluene-d8	7.57	98	243944	33.50	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	67.00%#
43) trans-1,3-Dichloropropene-	7.85	79	38411	33.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.26%
47) 2-Hexanone-d5	8.31	63	75351	73.83	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	73.83%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	117483	32.45	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	64.90%#
64) 1,2-Dichlorobenzene-d4	11.87	152	127489	34.73	ug/L	0.01
Spiked Amount	50.000	Range	80 - 120	Recovery	=	69.46%#

Target Compounds

					Qvalue
18) Methyl tert-butyl Ether	3.00	73	3212	0.537 ug/L #	85
29) Cyclohexane	5.00	56	5170	1.548 ug/L	97
31) Carbon tetrachloride	5.14	117	34864	11.372 ug/L	96
33) Benzene	5.39	78	25034067m	2807.774 ug/L	
34) Trichloroethene	6.19	95	1616	0.755 ug/L	92
35) Methylcyclohexane	6.42	83	2443	0.700 ug/L #	68
42) Toluene	7.64	91	4587	0.508 ug/L	94
46) Tetrachloroethene	8.23	164	3665	1.932 ug/L	93
51) Chlorobenzene	9.12	112	25438091m	4155.034 ug/L	
62) 1,3-Dichlorobenzene	11.42	146	1461472	271.665 ug/L	99
63) 1,4-Dichlorobenzene	11.52	146	17723571m	2991.953 ug/L	
65) 1,2-Dichlorobenzene	11.89	146	17418260m	2924.127 ug/L	
68) 1,2,4-trichlorobenzene	13.51	180	2527455	704.536 ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	453142	114.704 ug/L	98

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

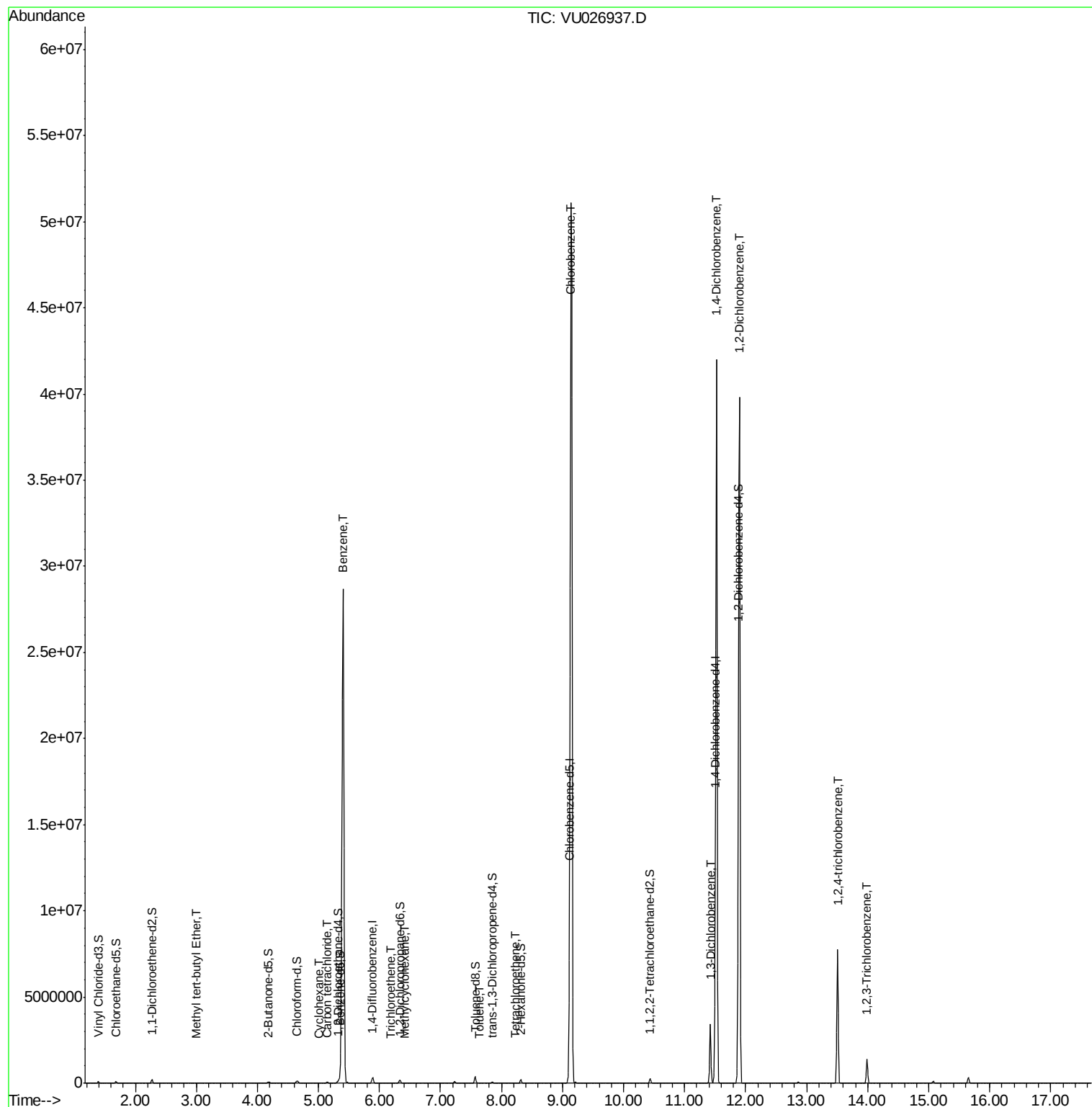
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092118\
Data File : VU026937.D
Acq On : 20 Sep 2018 14:39
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ALS Vial : 14 Sample Multiplier: 1

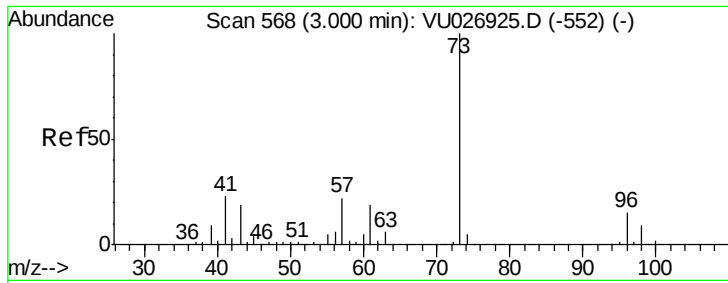
Instrument :
MSVOA_U
ClientSampleId :
C08K6

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Quant Time: Sep 27 08:02:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091718WMA.M
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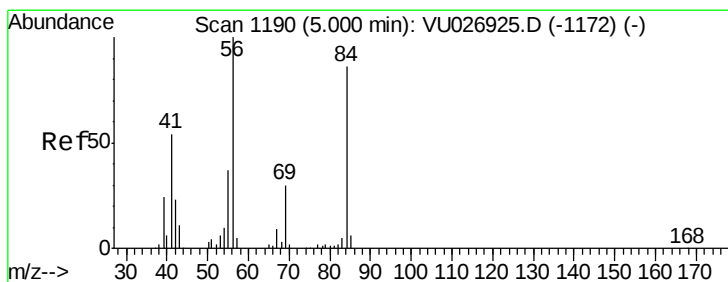
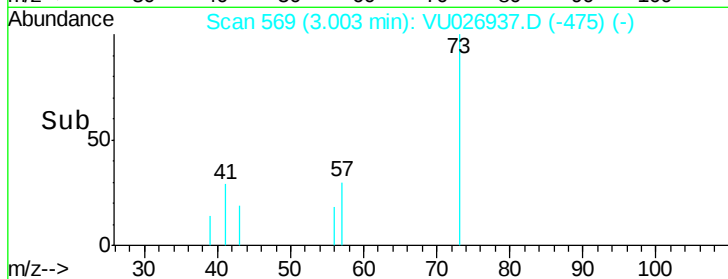
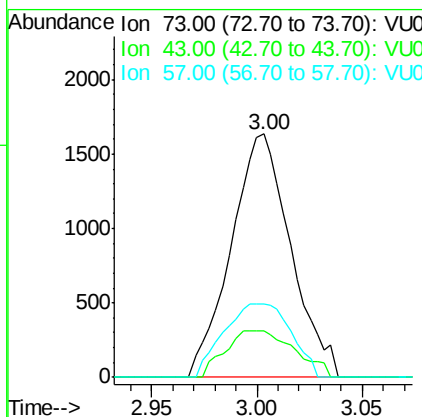
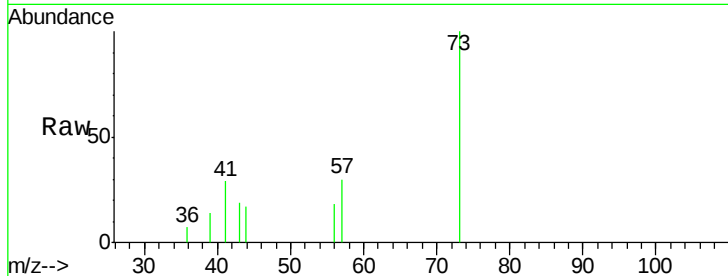
#18
Methyl tert-butyl Ether
Concen: 0.537 ug/L
RT: 3.00 min Scan# 569
Delta R.T. 0.00 min
Lab File: VU026937.D
Acq: 20 Sep 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
C08K6

Tgt Ion	Ratio	Lower	Upper
73	100		
43	21.0	15.3	22.9
57	34.0	18.1	27.1

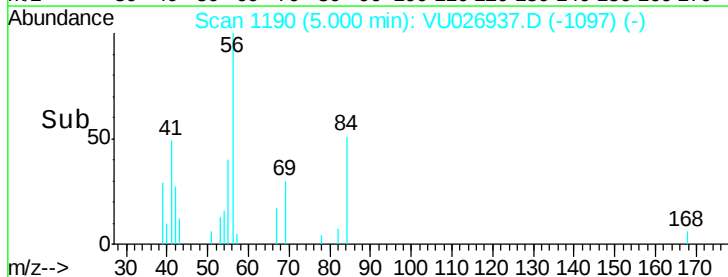
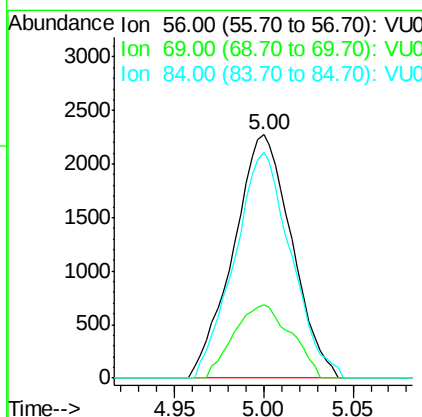
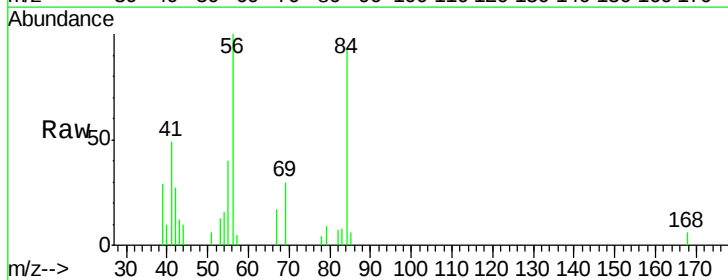
Manual Integrations
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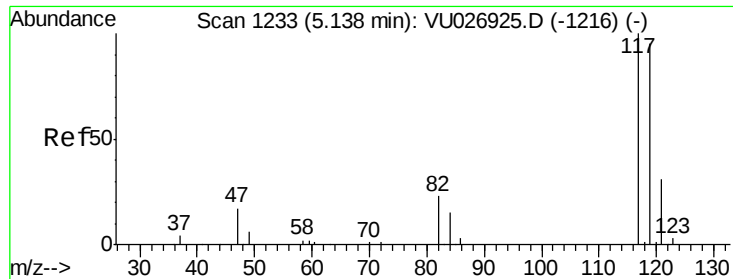
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#29
Cyclohexane
Concen: 1.548 ug/L
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU026937.D
Acq: 20 Sep 2018 14:39

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.5	23.7	35.5
84	90.0	69.0	103.4





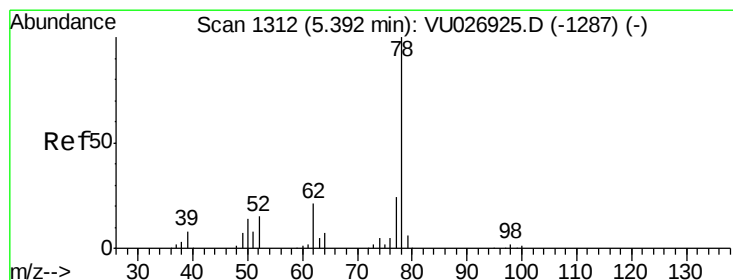
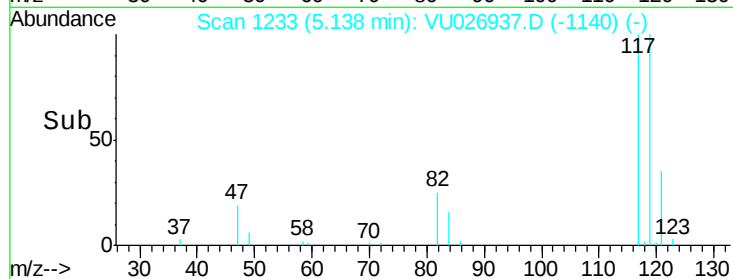
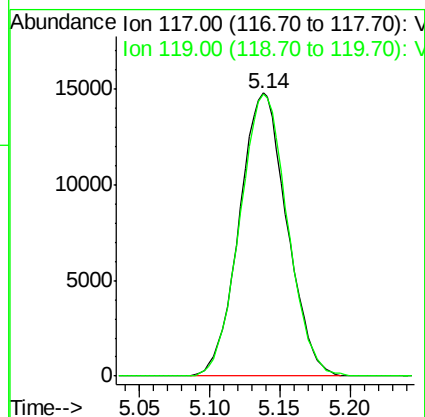
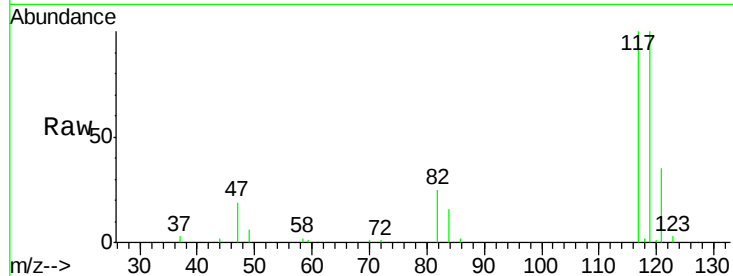
#31
Carbon tetrachloride
Concen: 11.372 ug/L
RT: 5.14 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VU026937.D
Acq: 20 Sep 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
C08K6

Tgt Ion:117 Resp: 34864
Ion Ratio Lower Upper
117 100
119 99.7 76.3 114.5

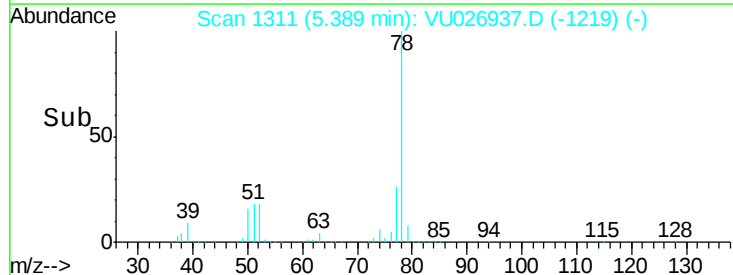
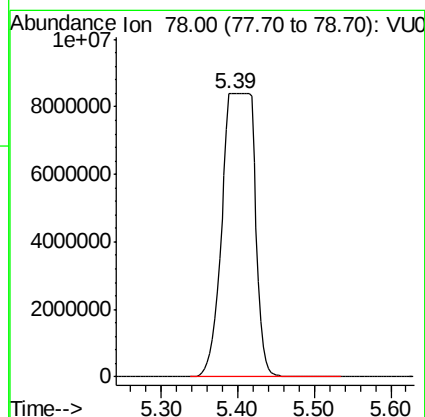
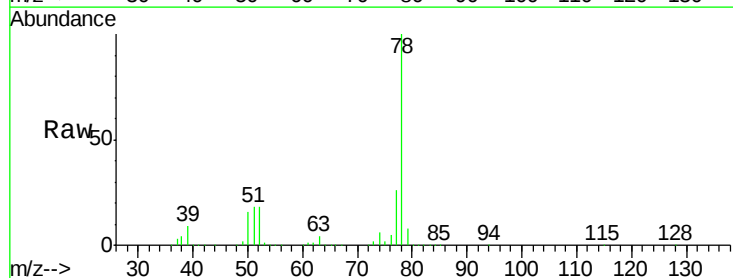
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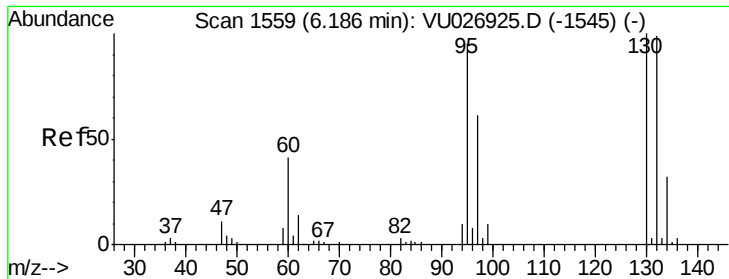
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#33
Benzene
Concen: 2807.774 ug/L m
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU026937.D
Acq: 20 Sep 2018 14:39

Tgt Ion: 78 Resp:25034067





#34

Trichloroethene

Concen: 0.755 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU026937.D

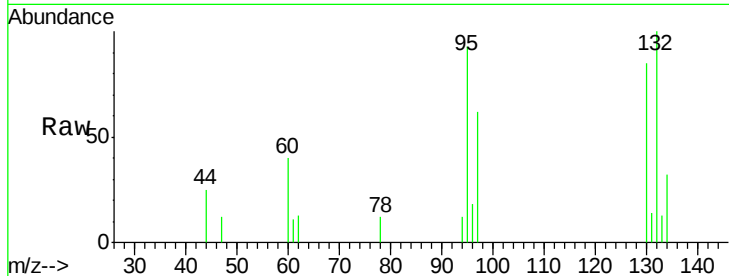
Acq: 20 Sep 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

C08K6



Tgt Ion: 95 Resp: 1616

Ion Ratio Lower Upper

95 100

97 67.3 46.3 85.9

132 107.7 71.7 133.1

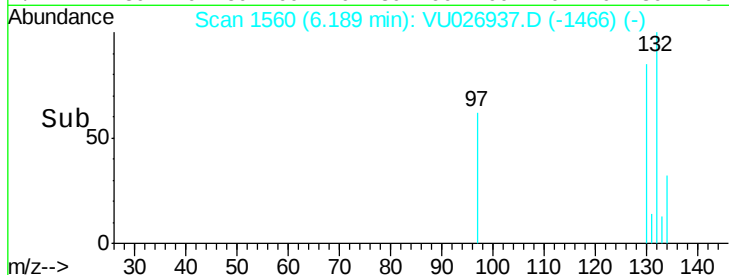
130 92.1 75.3 139.8

Manual Integrations

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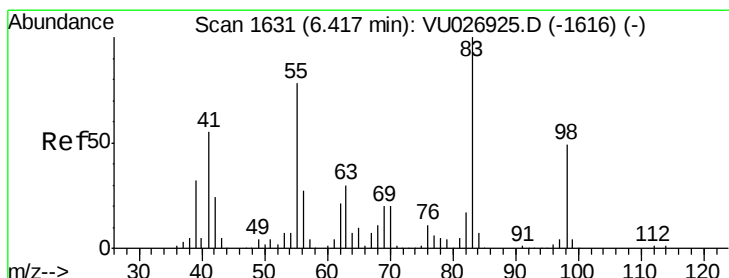
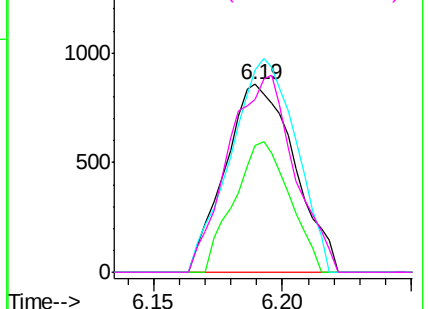


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 0.700 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU026937.D

Acq: 20 Sep 2018 14:39

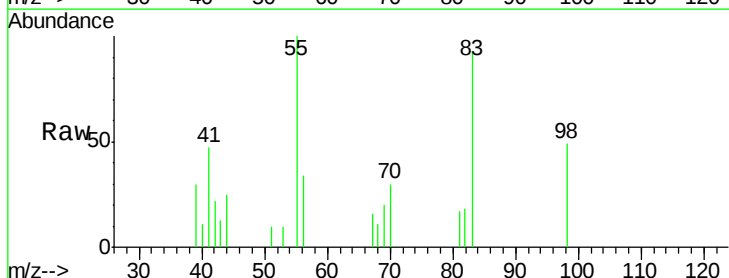
Tgt Ion: 83 Resp: 2443

Ion Ratio Lower Upper

83 100

55 114.9 61.7 92.5#

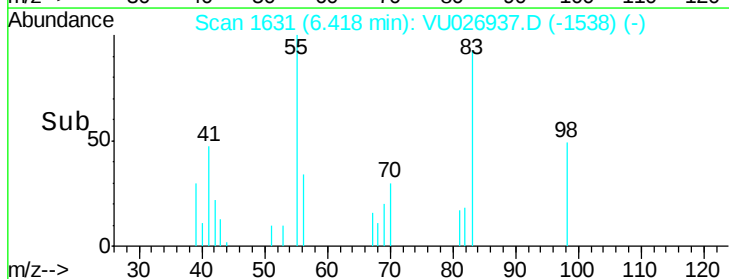
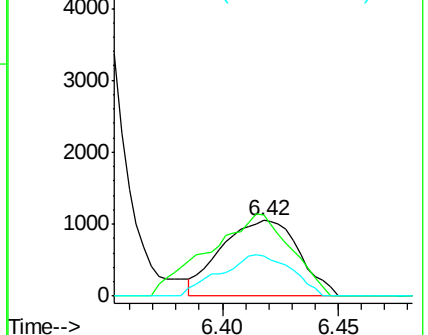
98 38.4 38.3 57.5

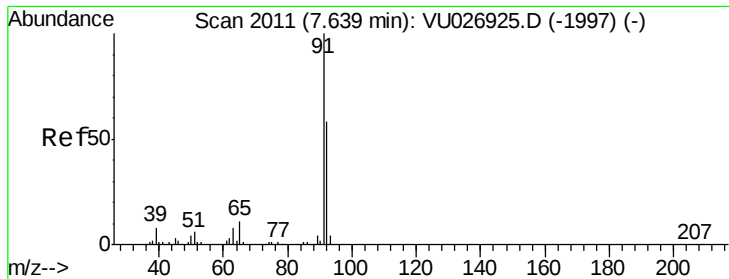


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#42

Toluene

Concen: 0.508 ug/L

RT: 7.64 min Scan# 2012

Delta R.T. 0.00 min

Lab File: VU026937.D

Acq: 20 Sep 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

C08K6

Tgt Ion: 91 Resp: 4587

Ion Ratio Lower Upper

91 100

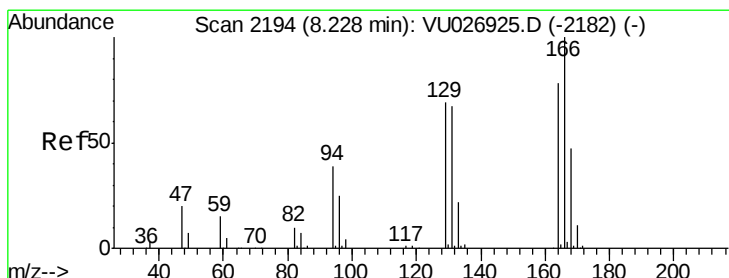
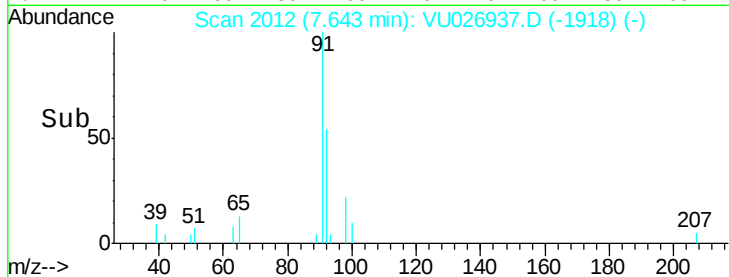
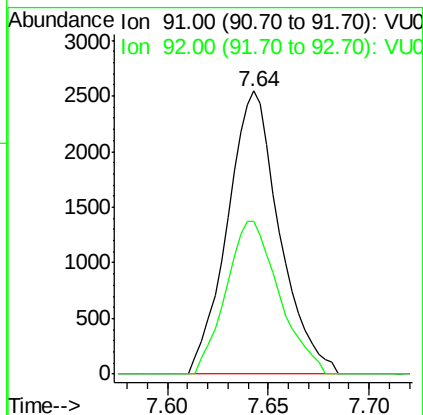
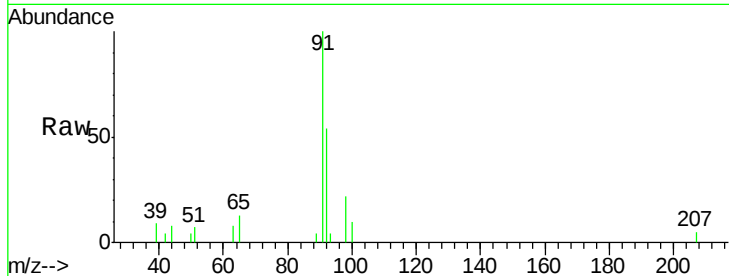
92 53.9 40.9 76.0

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#46

Tetrachloroethene

Concen: 1.932 ug/L

RT: 8.23 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VU026937.D

Acq: 20 Sep 2018 14:39

Tgt Ion: 164 Resp: 3665

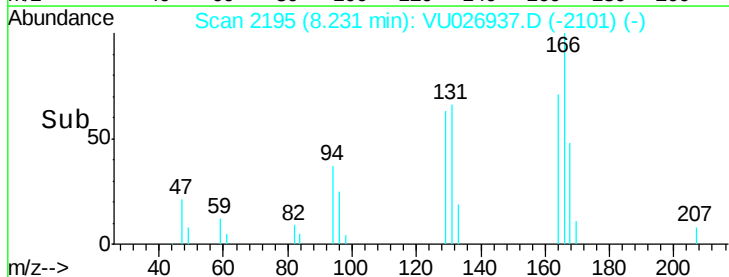
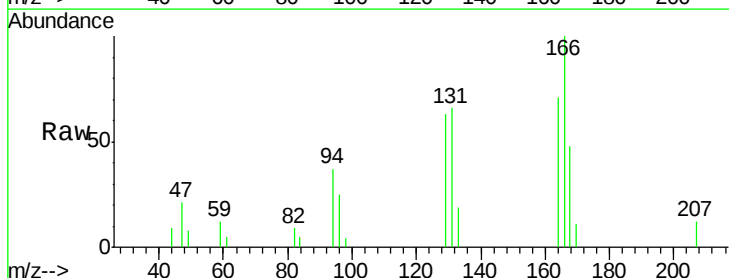
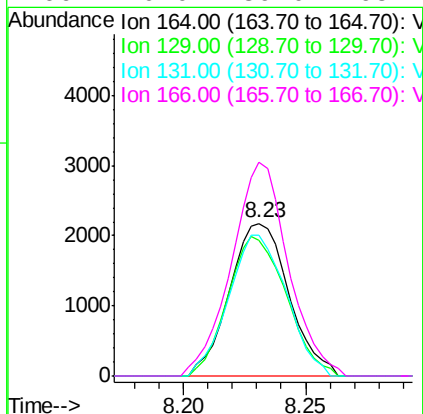
Ion Ratio Lower Upper

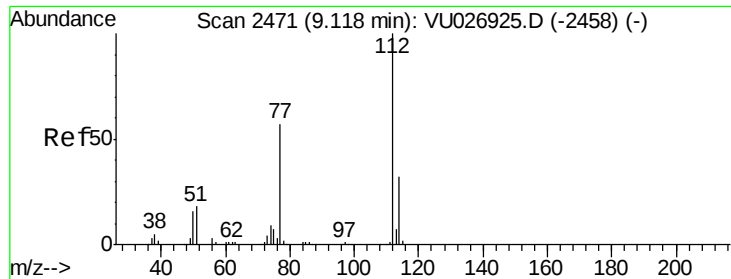
164 100

129 88.7 62.2 115.4

131 92.6 60.5 112.5

166 140.0 89.0 165.2





#51

Chlorobenzene

Concen: 4155.034 ug/L m

RT: 9.12 min Scan# 2473

Delta R.T. 0.01 min

Lab File: VU026937.D

Acq: 20 Sep 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

C08K6

Tgt Ion:112 Resp:25438091

Ion Ratio Lower Upper

112 100

114 37.5 22.3 41.5

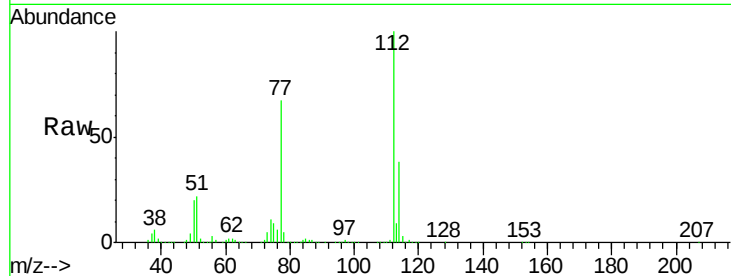
77 66.9 45.1 67.7

Manual Integrations

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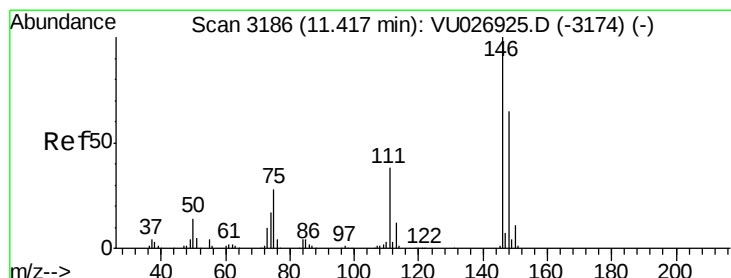
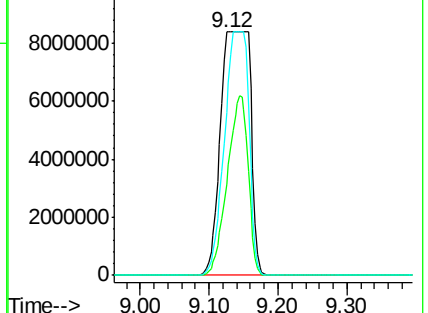
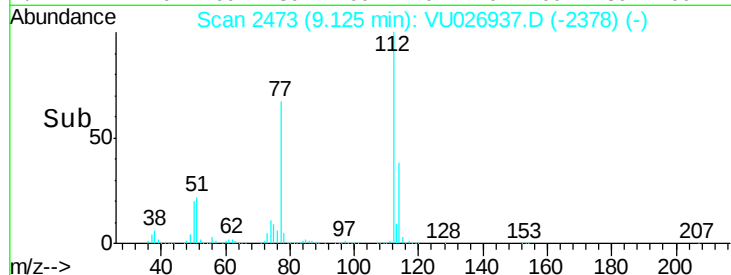
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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU



#62

1,3-Dichlorobenzene

Concen: 271.665 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU026937.D

Acq: 20 Sep 2018 14:39

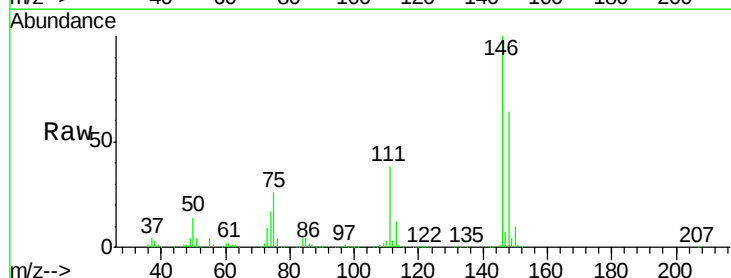
Tgt Ion:146 Resp: 1461472

Ion Ratio Lower Upper

146 100

111 37.6 26.7 49.7

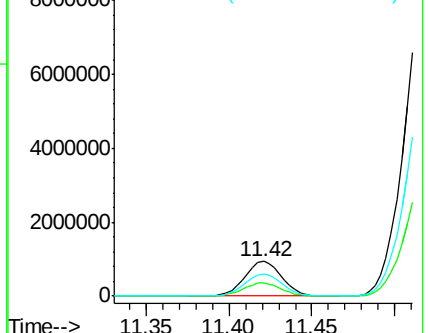
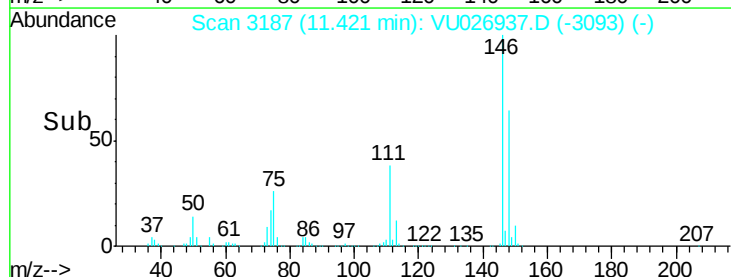
148 64.0 44.9 83.5

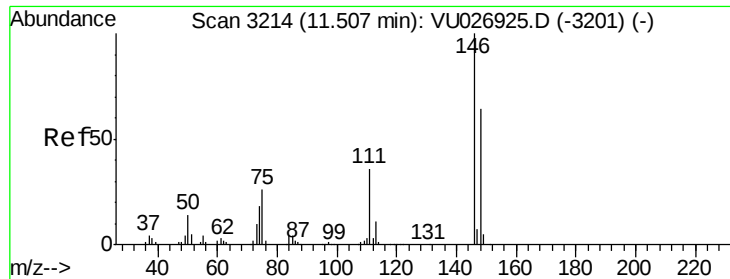


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





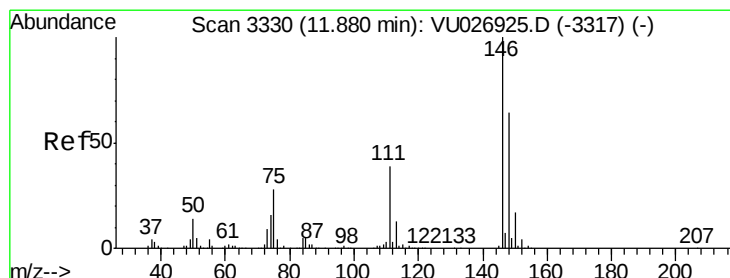
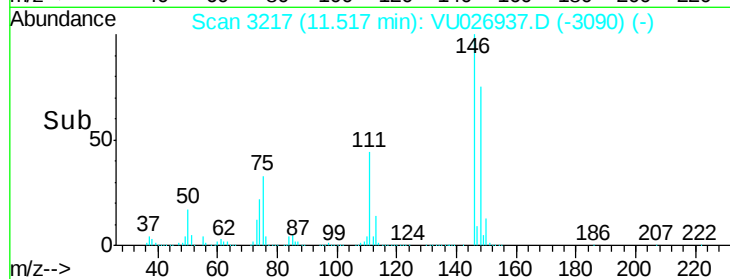
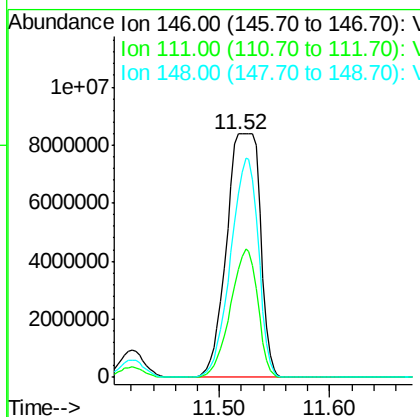
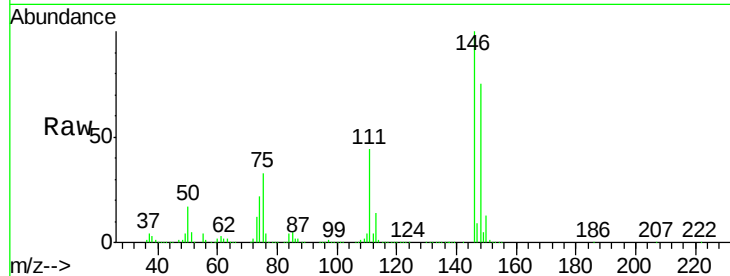
#63
 1,4-Dichlorobenzene
 Concen: 2991.953 ug/L m
 RT: 11.52 min Scan# 3217
 Delta R.T. 0.01 min
 Lab File: VU026937.D
 Acq: 20 Sep 2018 14:39

Instrument :
 MSVOA_U
 ClientSampled :
 C08K6

Tgt Ion:146 Resp:17723571
 Ion Ratio Lower Upper
 146 100
 111 44.4 26.0 48.2
 148 75.2 45.8 85.2

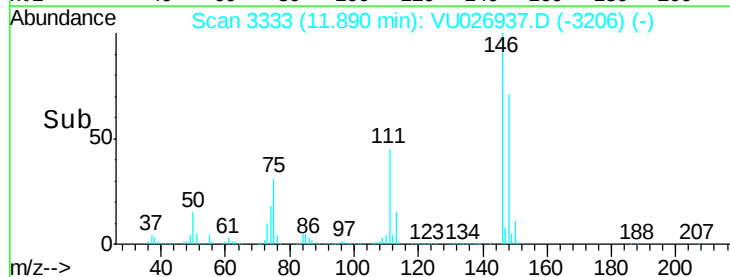
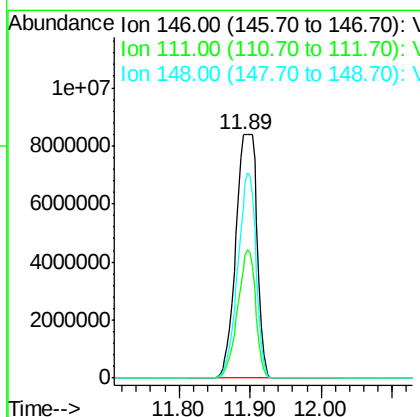
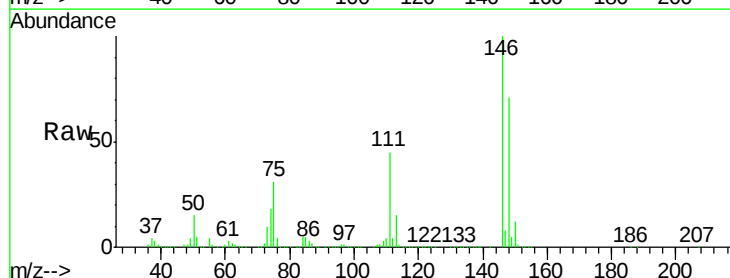
Manual Integrations
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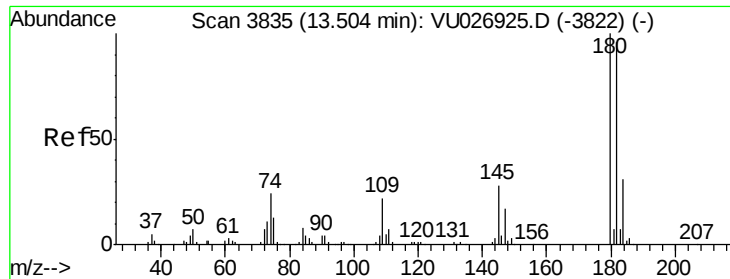
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#65
 1,2-Dichlorobenzene
 Concen: 2924.127 ug/L m
 RT: 11.89 min Scan# 3333
 Delta R.T. 0.01 min
 Lab File: VU026937.D
 Acq: 20 Sep 2018 14:39

Tgt Ion:146 Resp:17418260
 Ion Ratio Lower Upper
 146 100
 111 44.9 31.4 47.0
 148 70.7 51.4 77.2





#68

1,2,4-trichlorobenzene

Concen: 704.536 ug/L

RT: 13.51 min Scan# 3836

Delta R.T. 0.00 min

Lab File: VU026937.D

Acq: 20 Sep 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

C08K6

Tgt Ion:180 Resp: 2527455

Ion Ratio Lower Upper

180 100

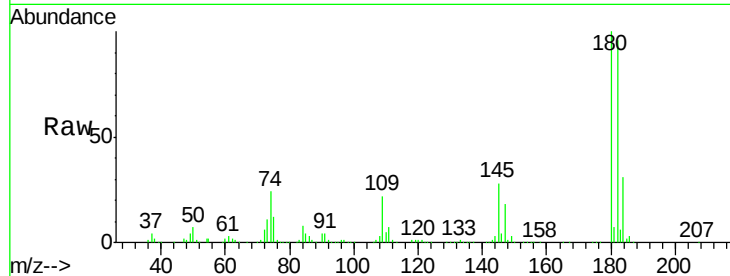
182 96.0 76.8 115.2

145 27.8 22.2 33.2

Manual Integrations
APPROVED

sam

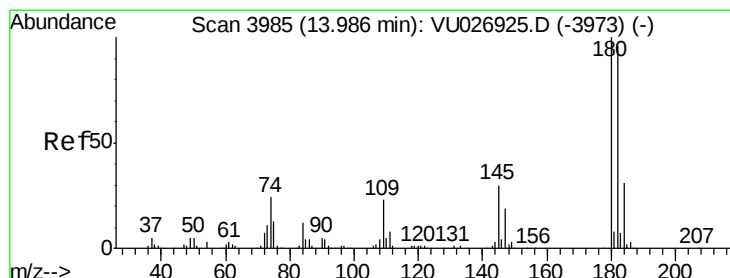
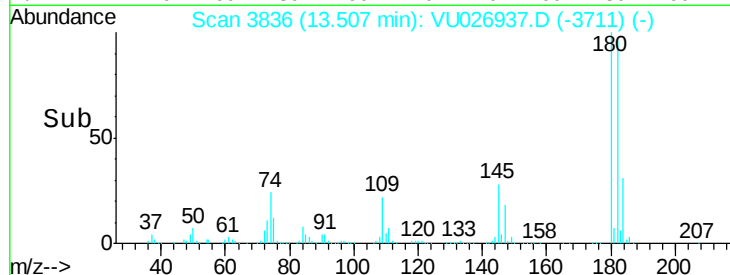
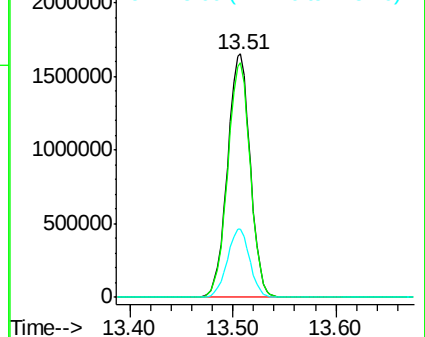
9/28/2018 4:05:31 PM



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#70

1,2,3-Trichlorobenzene

Concen: 114.704 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU026937.D

Acq: 20 Sep 2018 14:39

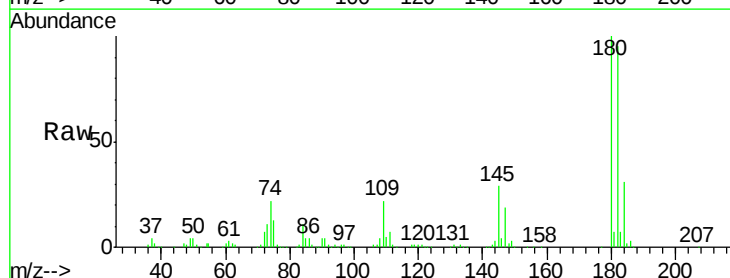
Tgt Ion:180 Resp: 453142

Ion Ratio Lower Upper

180 100

182 96.3 75.6 113.4

145 29.2 23.8 35.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

