

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051320\
 Data File : VU038145.D
 Acq On : 13 May 2020 15:53
 Operator : JC/MD
 Sample : L2630-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 14 01:14:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 14 01:11:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	365564	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	357177	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	173274	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	126020	3.77	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.40%
7) Chloroethane-d5	1.93	69	121367	4.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.00%
11) 1,1-Dichloroethene-d2	2.59	63	176173	3.15	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.00%
20) 2-Butanone-d5	4.66	46	477856	57.92	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.84%
24) Chloroform-d	5.10	84	243909	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
26) 1,2-Dichloroethane-d4	5.74	65	144951	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
32) Benzene-d6	5.76	84	505425	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.40%
36) 1,2-Dichloropropane-d6	6.72	67	168878	4.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.80%
41) Toluene-d8	7.92	98	442192	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
43) trans-1,3-Dichloropropene-	8.20	79	63421	4.58	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.60%
46) 2-Hexanone-d5	8.65	63	398204	60.94	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	121.88%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	140638	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	12.20	152	165290	4.90	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	73450	1.860	ug/L	99
12) 1,1-Dichloroethene	2.61	96	11798	0.465	ug/L #	1
13) Acetone	2.66	43	4559	0.881	ug/L	99
15) Methyl Acetate	3.07	43	12581	0.869	ug/L #	53
18) trans-1,2-Dichloroethene	3.38	96	3712	0.134	ug/L	97
19) 1,1-Dichloroethane	3.91	63	56467	1.044	ug/L	98
22) cis-1,2-Dichloroethene	4.71	96	335666	11.246	ug/L	98
25) Chloroform	5.13	83	176832	3.505	ug/L	99
29) 1,1,1-Trichloroethane	5.35	97	95906	2.344	ug/L	100
30) Cyclohexane	5.42	56	9913	0.205	ug/L #	91
31) Carbon tetrachloride	5.35	117	12547	0.381	ug/L	99
34) Trichloroethene	6.57	95	14226	0.497	ug/L	97
35) Methylcyclohexane	6.72	83	37968	0.819	ug/L #	16
37) 1,2-Dichloropropane	6.72	63	18304	0.589	ug/L #	88
39) cis-1,3-Dichloropropene	7.59	75	4177	0.094	ug/L #	64
48) 2-Hexanone	8.71	43	27259	1.729	ug/L #	90
51) Chlorobenzene	9.47	112	46509	0.621	ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051320\
 Data File : VU038145.D
 Acq On : 13 May 2020 15:53
 Operator : JC/MD
 Sample : L2630-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 14 01:14:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 14 01:11:51 2020
 Response via : Initial Calibration

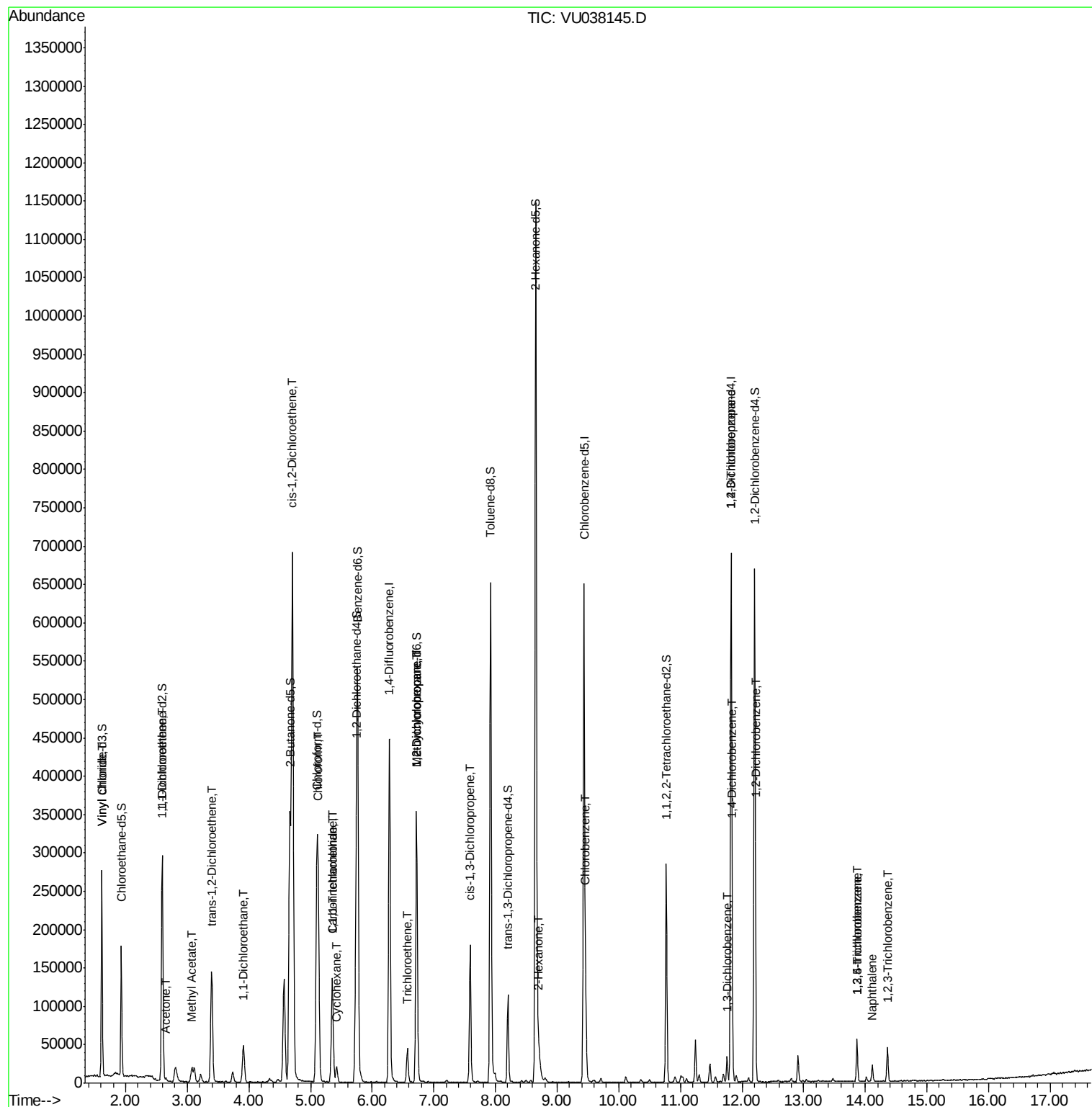
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.82	75	27605	1.324	ug/L	100
62) 1,3-Dichlorobenzene	11.75	146	12462	0.221	ug/L	94
63) 1,4-Dichlorobenzene	11.85	146	12452	0.218	ug/L	94
65) 1,2-Dichlorobenzene	12.23	146	5109	0.094	ug/L	89
67) 1,3,5-Trichlorobenzene	13.87	180	15245	0.373	ug/L	96
68) 1,2,4-trichlorobenzene	13.87	180	15245	0.411	ug/L	93
69) Naphthalene	14.11	128	17156	0.220	ug/L	98
70) 1,2,3-Trichlorobenzene	14.36	180	13485	0.391	ug/L	94

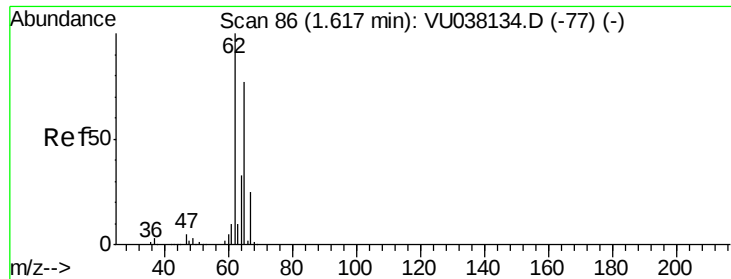
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU051320\
Data File : VU038145.D
Acq On : 13 May 2020 15:53
Operator : JC/MD
Sample : L2630-03
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: May 14 01:14:51 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 14 01:11:51 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.860 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU038145.D

Acq: 13 May 2020 15:53

Instrument :

MSVOA_U

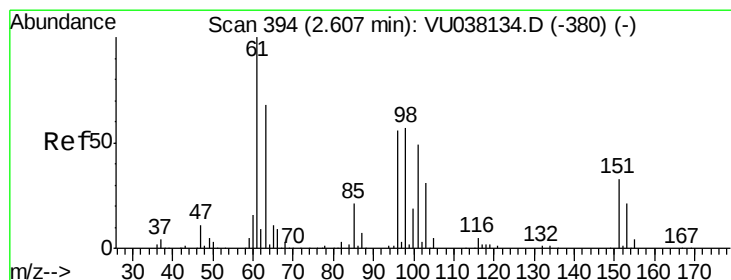
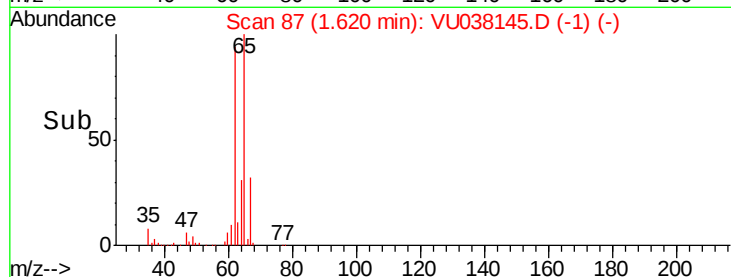
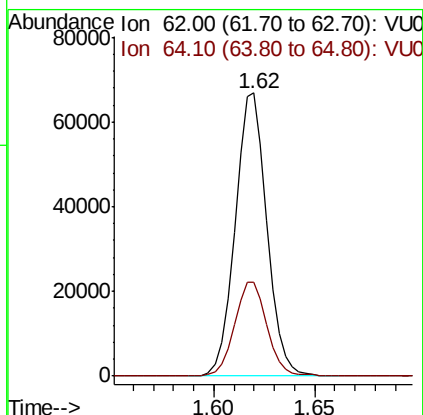
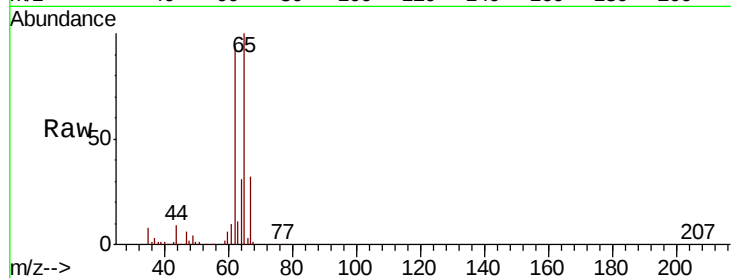
ClientSampleId :

Tot Ion: 62 Resp: 73450

Ion Ratio Lower Upper

62 100

64 33.4 22.8 42.4



#12

1,1-Dichloroethene

Concen: 0.465 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038145.D

Acq: 13 May 2020 15:53

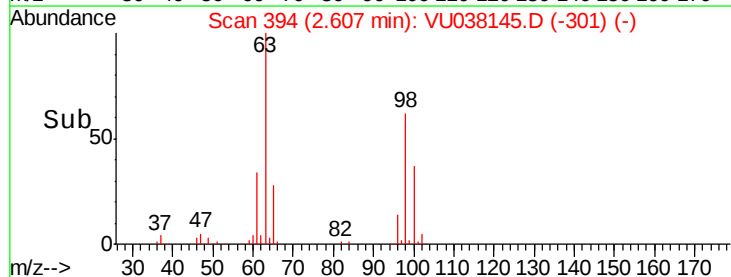
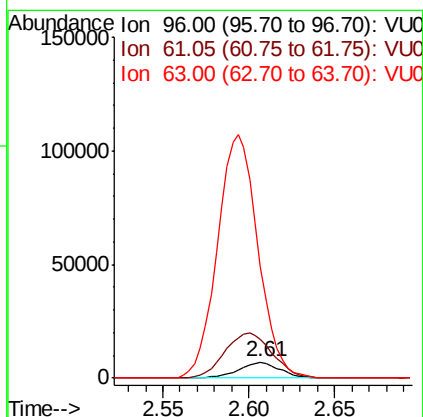
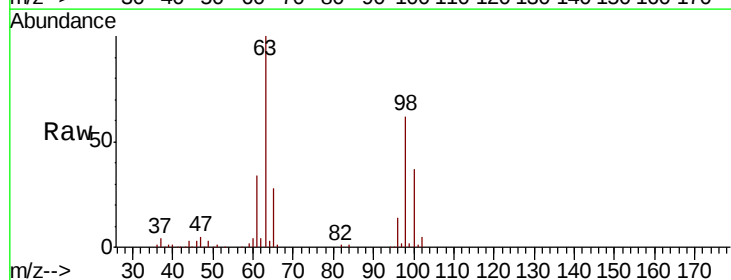
Tgt Ion: 96 Resp: 11798

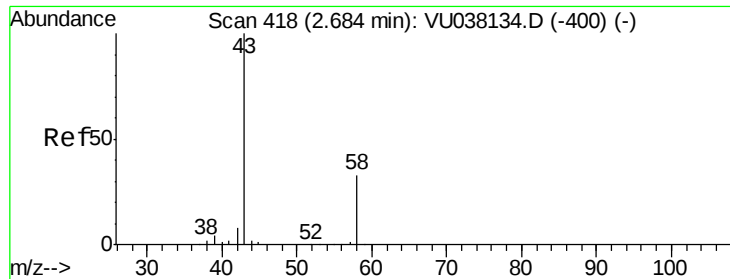
Ion Ratio Lower Upper

96 100

61 244.3 126.2 234.4#

63 709.4 96.9 179.9#





#13

Acetone

Concen: 0.881 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.03 min

Lab File: VU038145.D

Acq: 13 May 2020 15:53

Instrument :

MSVOA_U

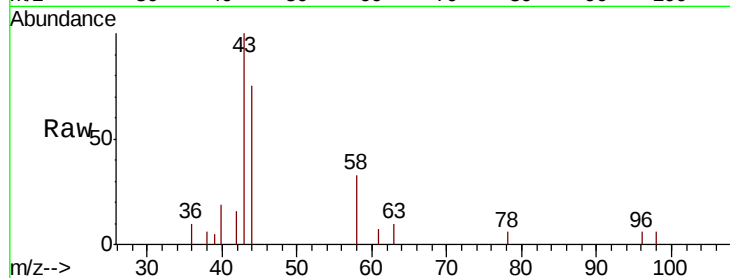
ClientSampled :

Tot Ion: 43 Resp: 4559

Ion Ratio Lower Upper

43 100

58 32.6 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038145.D (-325) (-)

Ion 58.05 (57.75 to 58.75): VU038145.D (-325) (-)

2500

2000

1500

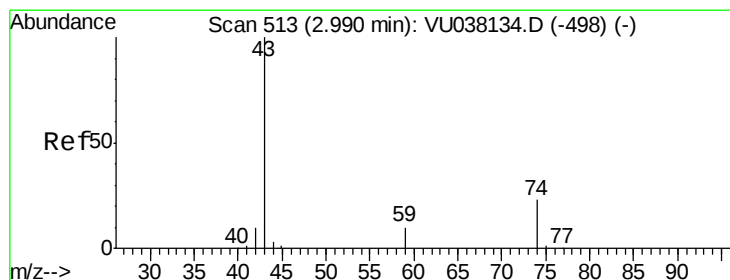
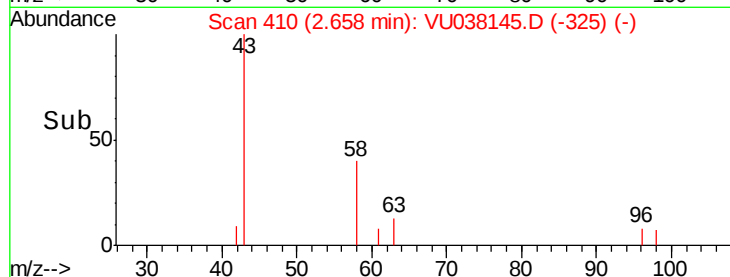
1000

500

0

2.55 2.60 2.65 2.70

Time-->



#15

Methyl Acetate

Concen: 0.869 ug/L

RT: 3.07 min Scan# 539

Delta R.T. 0.08 min

Lab File: VU038145.D

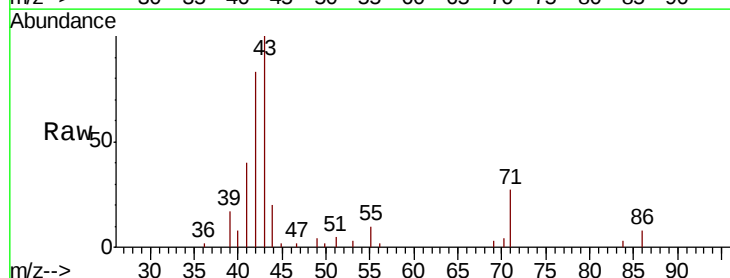
Acq: 13 May 2020 15:53

Tgt Ion: 43 Resp: 12581

Ion Ratio Lower Upper

43 100

74 0.0 18.0 27.0#



Abundance Ion 43.05 (42.75 to 43.75): VU038145.D (-420) (-)

Ion 74.05 (73.75 to 74.75): VU038145.D (-420) (-)

6000

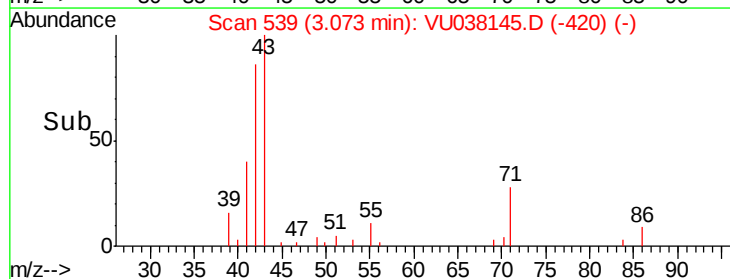
4000

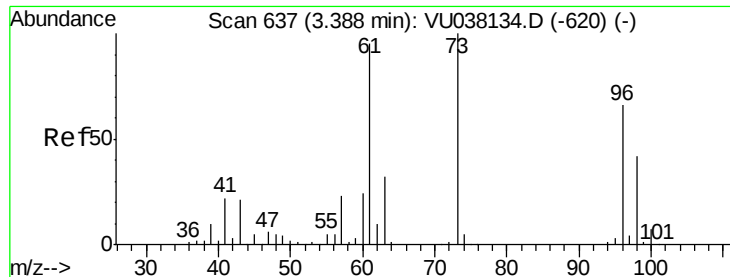
2000

0

3.00 3.05 3.10

Time-->

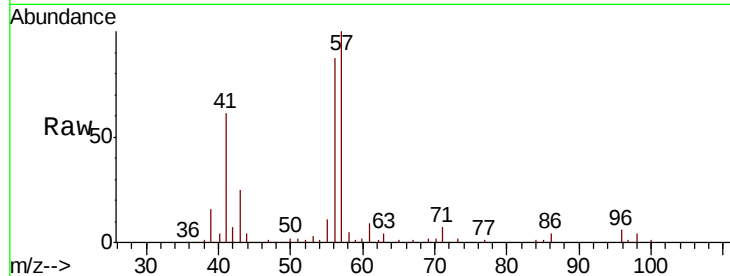




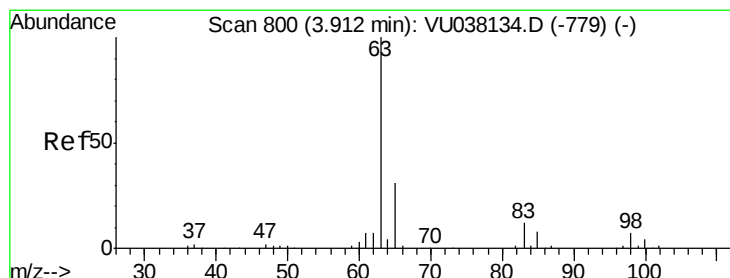
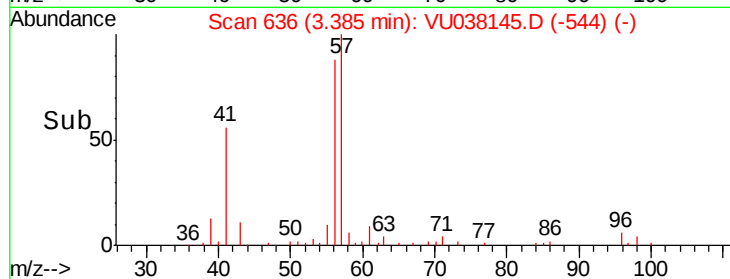
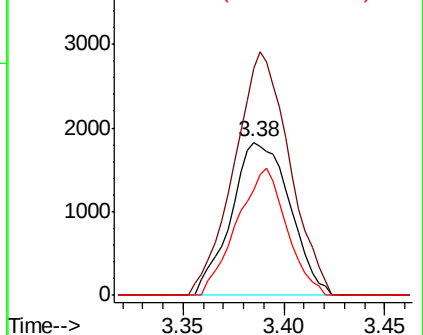
#18
 trans-1,2-Dichloroethene
 Concen: 0.134 ug/L
 RT: 3.38 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 3712
 Ion Ratio Lower Upper
 96 100
 61 148.3 102.1 189.5
 98 68.5 45.6 84.8

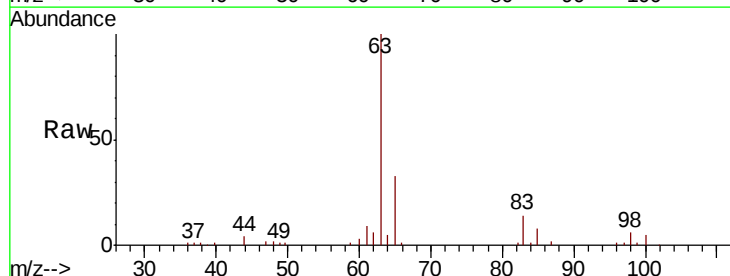


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

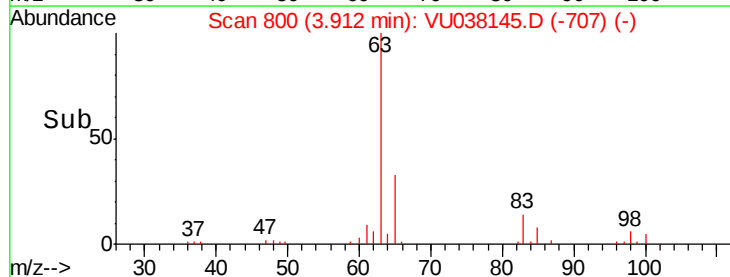
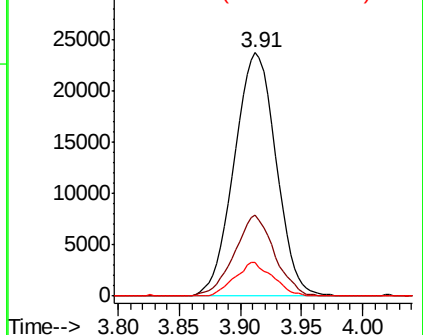


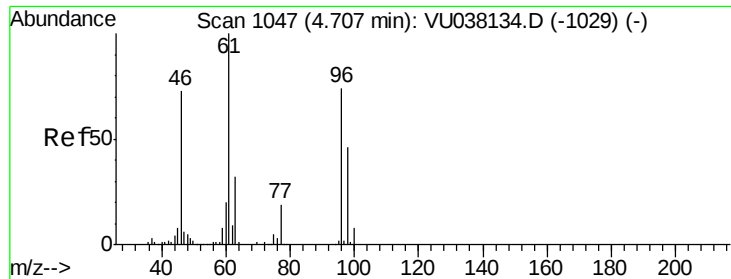
#19
 1,1-Dichloroethane
 Concen: 1.044 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. -0.00 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

Tgt Ion: 63 Resp: 56467
 Ion Ratio Lower Upper
 63 100
 65 33.1 22.5 41.7
 83 13.7 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

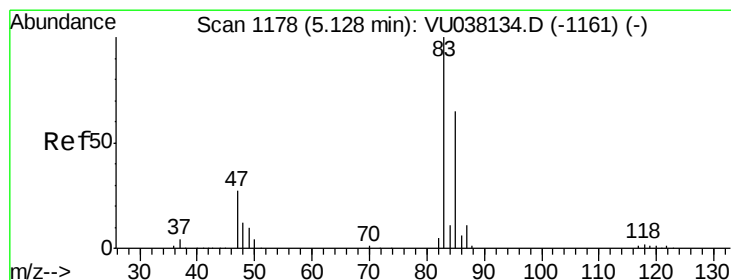
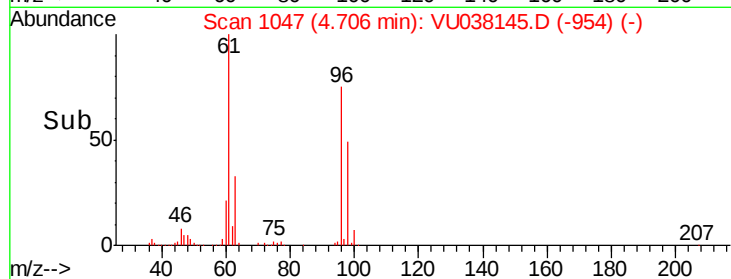
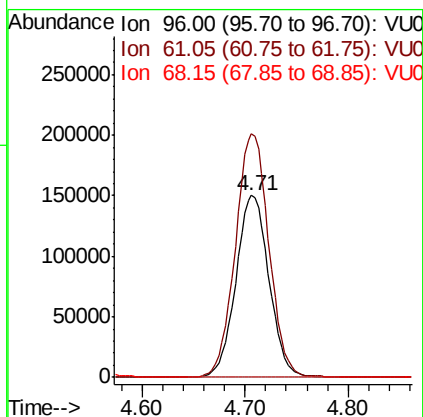
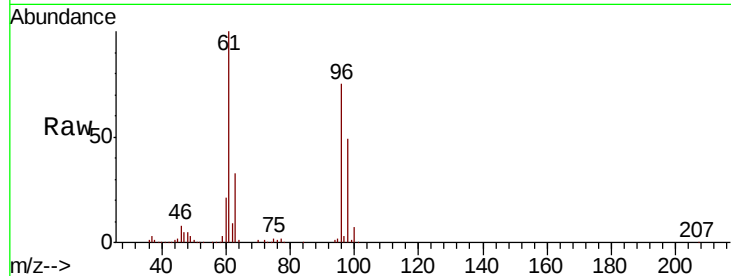




#22
 cis-1,2-Dichloroethene
 Concen: 11.246 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

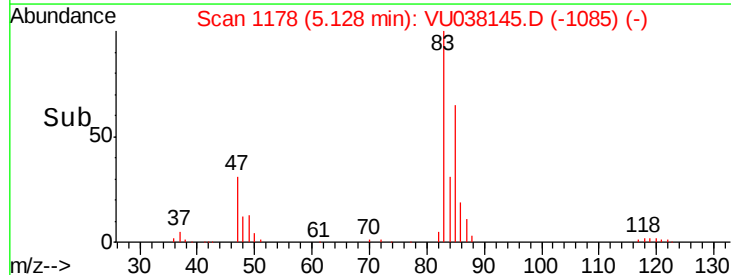
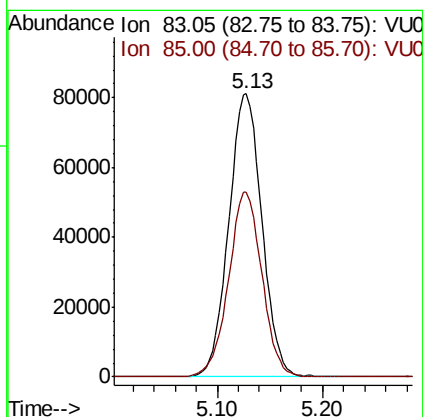
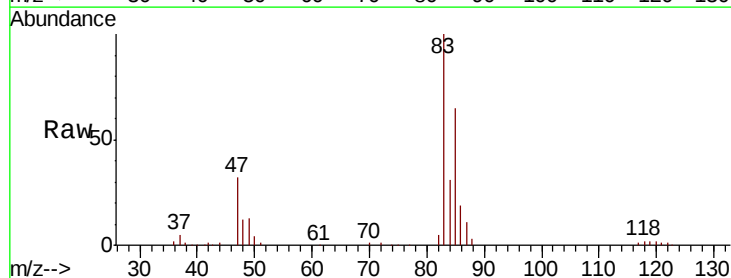
Instrument :
 MSVOA_U
 ClientSampled :

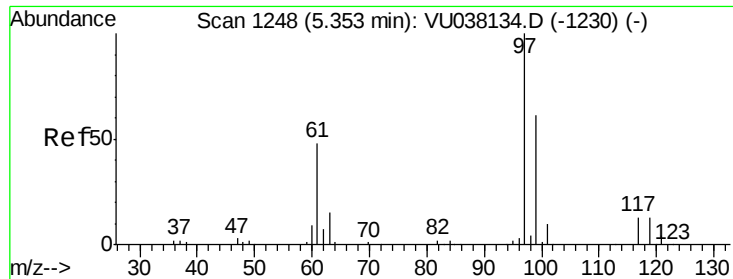
Tot Ion: 96 Resp: 335666
 Ion Ratio Lower Upper
 96 100
 61 134.0 95.3 176.9
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 3.505 ug/L
 RT: 5.13 min Scan# 1178
 Delta R.T. -0.00 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

Tgt Ion: 83 Resp: 176832
 Ion Ratio Lower Upper
 83 100
 85 65.4 46.2 85.8

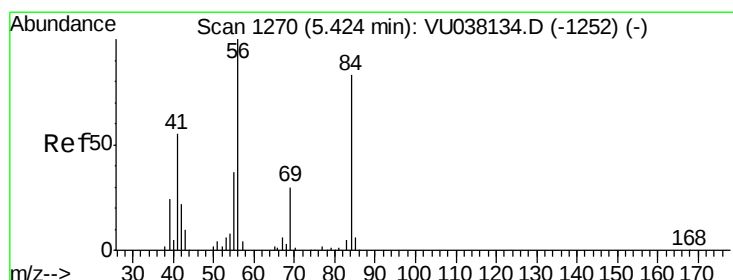
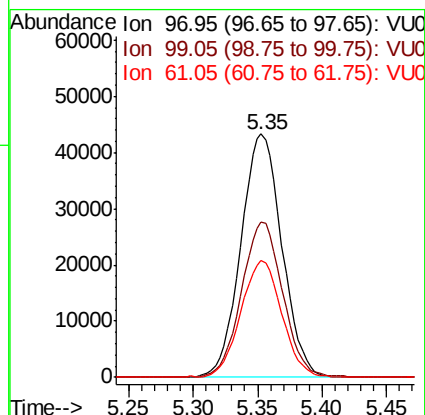
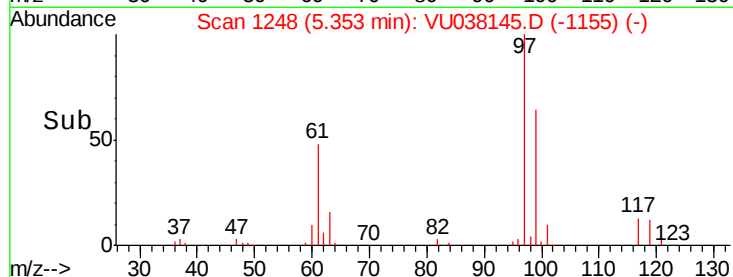
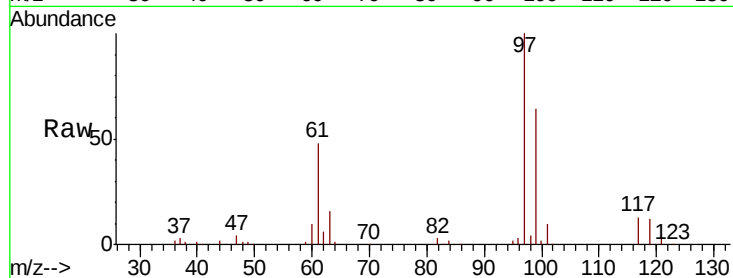




#29
 1,1,1-Trichloroethane
 Concen: 2.344 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

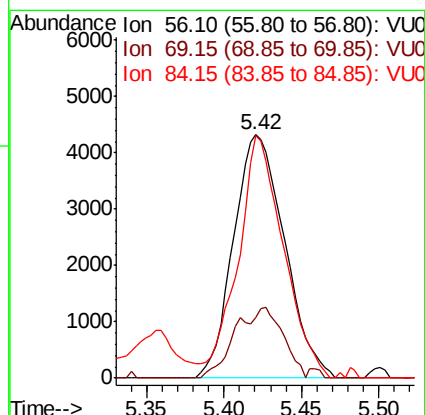
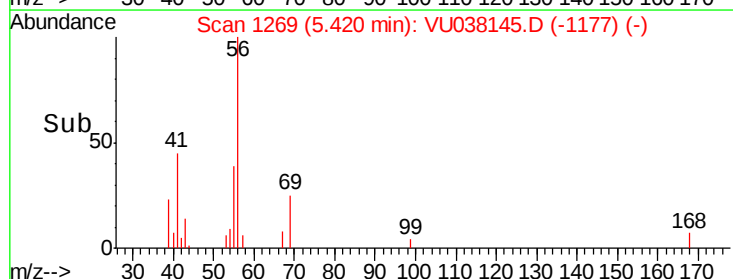
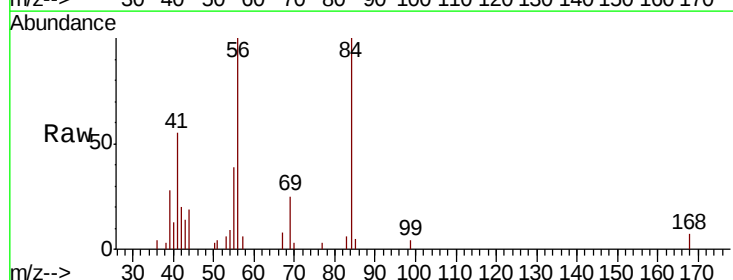
Instrument :
 MSVOA_U
 ClientSampled :

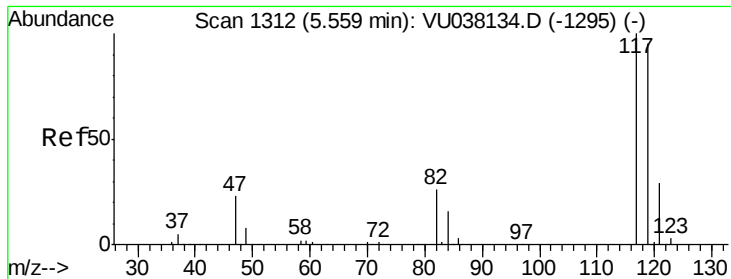
Tot Ion: 97 Resp: 95906
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.0 76.4
 61 48.0 38.2 57.4



#30
 Cyclohexane
 Concen: 0.205 ug/L
 RT: 5.42 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

Tgt Ion: 56 Resp: 9913
 Ion Ratio Lower Upper
 56 100
 69 16.2 24.2 36.4#
 84 88.6 68.5 102.7





#31

Carbon tetrachloride

Concen: 0.381 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. -0.21 min

Lab File: VU038145.D

Acq: 13 May 2020 15:53

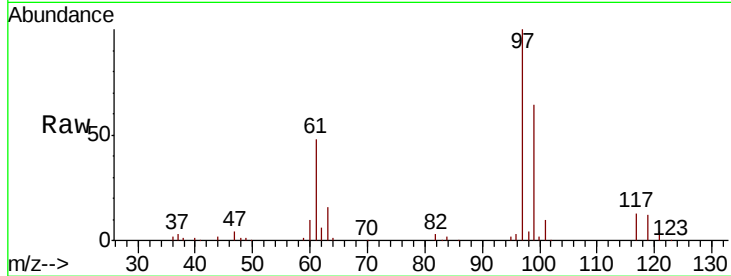
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 12547

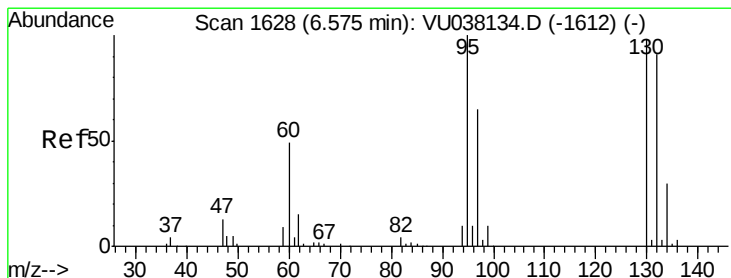
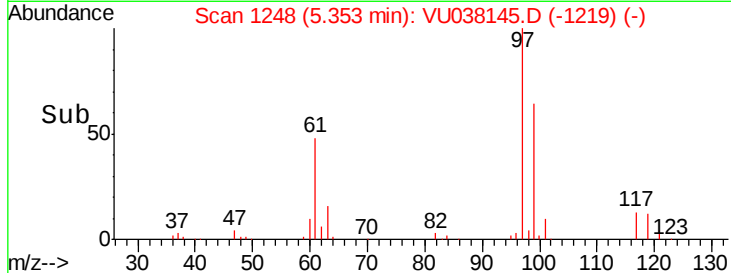
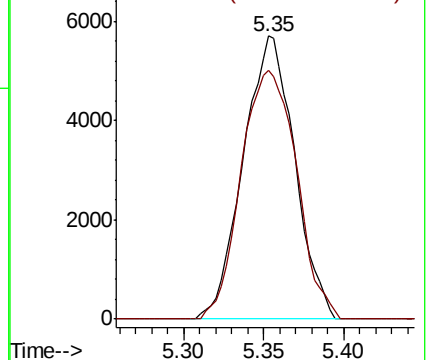
Ion Ratio Lower Upper

117 100

119 94.9 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 0.497 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038145.D

Acq: 13 May 2020 15:53

Tgt Ion: 95 Resp: 14226

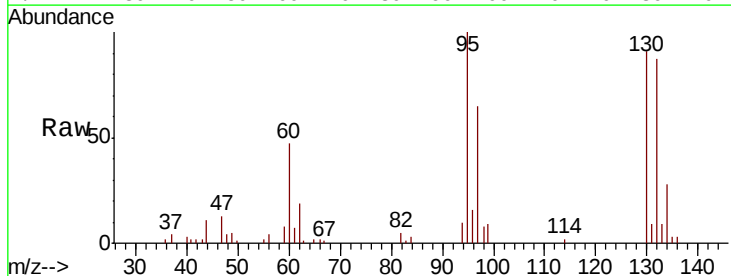
Ion Ratio Lower Upper

95 100

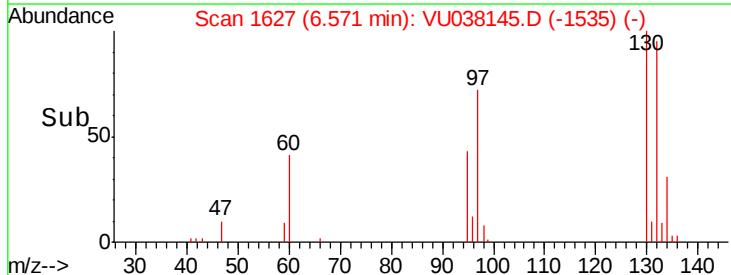
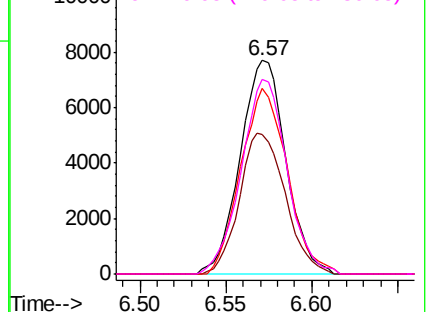
97 65.2 44.9 83.3

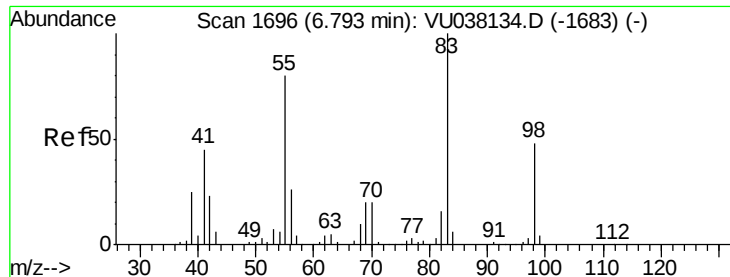
132 86.7 63.3 117.5

130 91.1 65.7 122.1



Abundance Ion 95.00 (94.70 to 95.70): VU0
12000 Ion 96.95 (96.65 to 97.65): VU0
10000 Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V

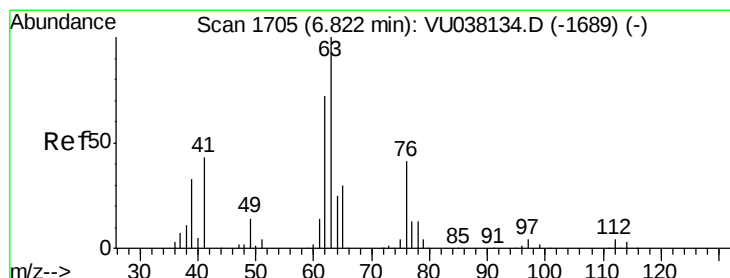
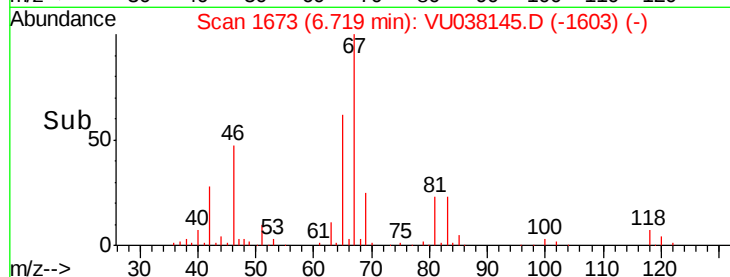
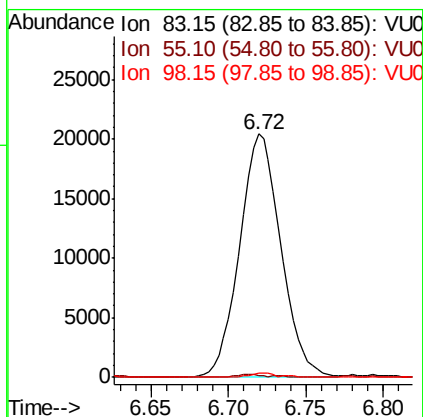
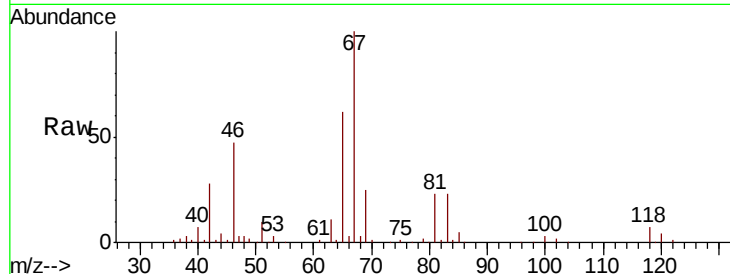




#35
Methvlcvclohexane
Concen: 0.819 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.07 min
Lab File: VU038145.D
Acq: 13 May 2020 15:53

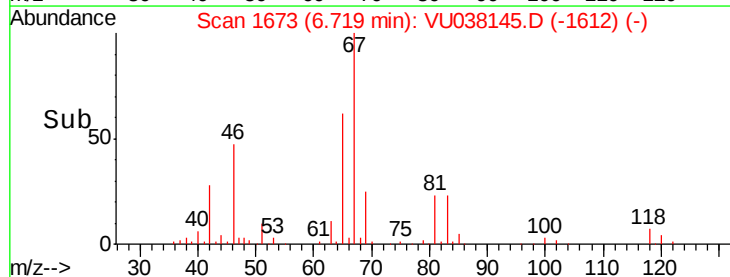
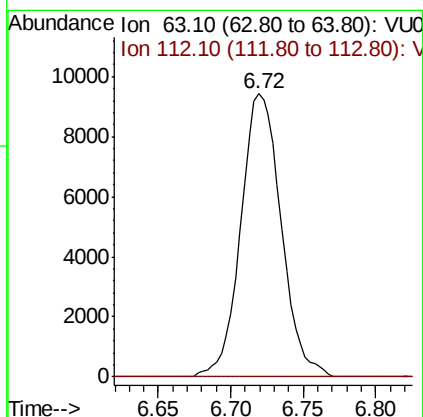
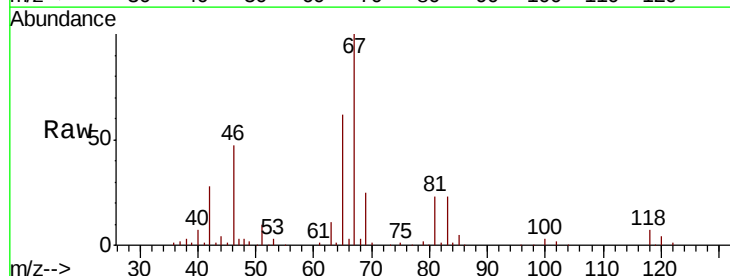
Instrument :
MSVOA_U
ClientSampleId :

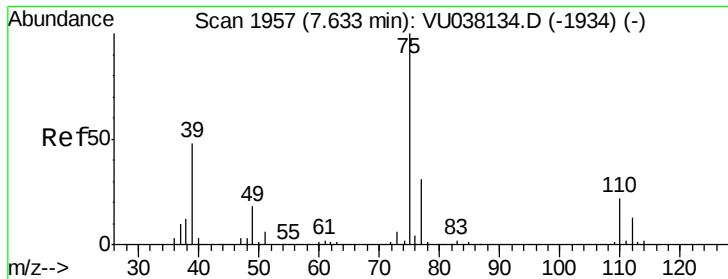
Tot Ion: 83 Resp: 37968
Ion Ratio Lower Upper
83 100
55 0.6 66.7 100.1#
98 0.9 39.4 59.2#



#37
1,2-Dichloropropane
Concen: 0.589 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.10 min
Lab File: VU038145.D
Acq: 13 May 2020 15:53

Tgt Ion: 63 Resp: 18304
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#

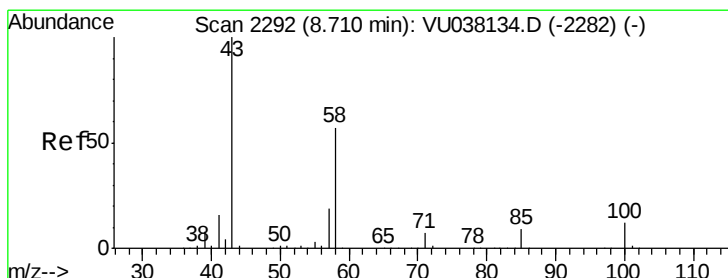
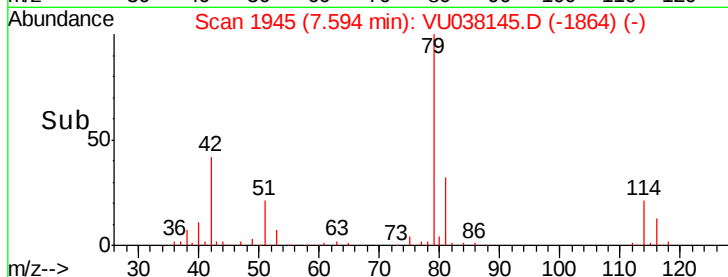
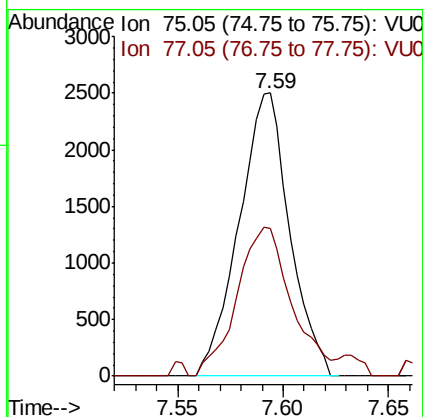
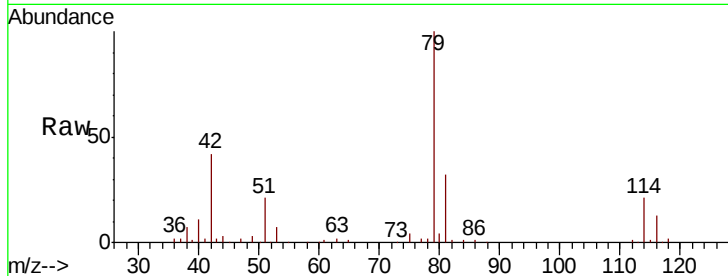




#39
 cis-1,3-Dichloropropene
 Concen: 0.094 ug/L
 RT: 7.59 min Scan# 1945
 Delta R.T. -0.04 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

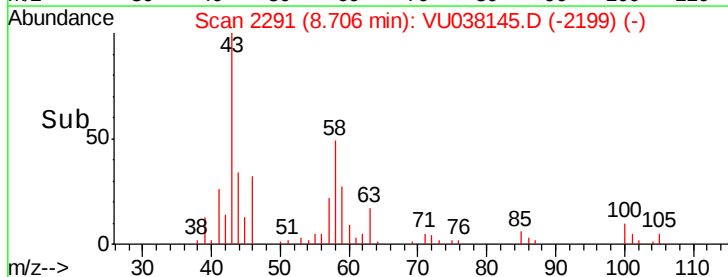
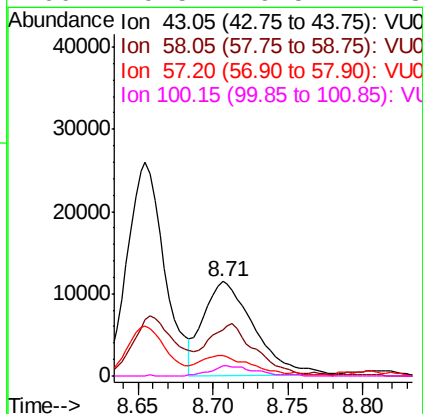
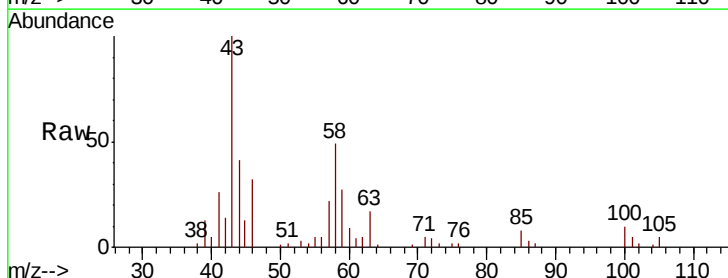
Instrument :
 MSVOA_U
 ClientSampleId :

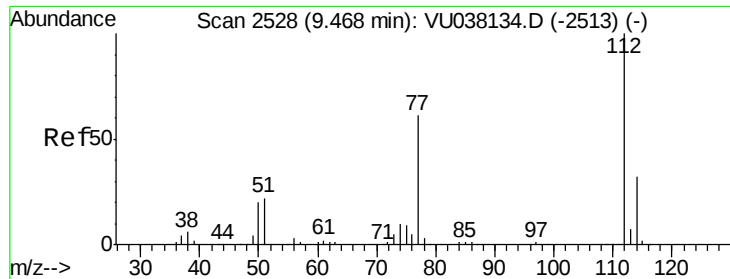
Tot Ion: 75 Resp: 4177
 Ion Ratio Lower Upper
 75 100
 77 52.1 22.4 41.6#



#48
 2-Hexanone
 Concen: 1.729 ug/L
 RT: 8.71 min Scan# 2291
 Delta R.T. -0.00 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

Tgt Ion: 43 Resp: 27259
 Ion Ratio Lower Upper
 43 100
 58 47.0 45.2 67.8
 57 21.2 15.5 23.3
 100 9.5 9.5 14.3#





#51

Chlorobenzene

Concen: 0.621 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038145.D

Acq: 13 May 2020 15:53

Instrument :

MSVOA_U

ClientSampleId :

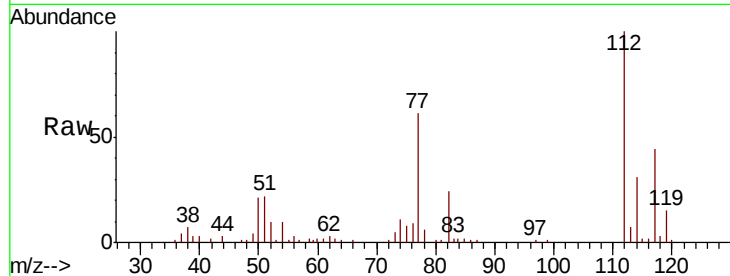
Tot Ion:112 Resp: 46509

Ion Ratio Lower Upper

112 100

114 31.3 22.5 41.7

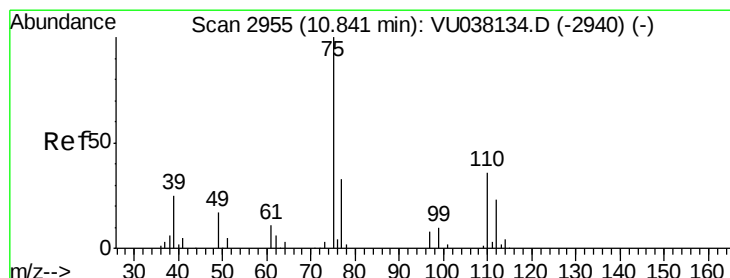
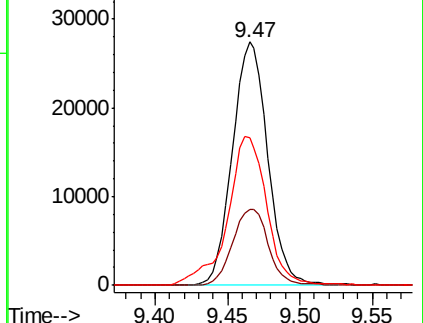
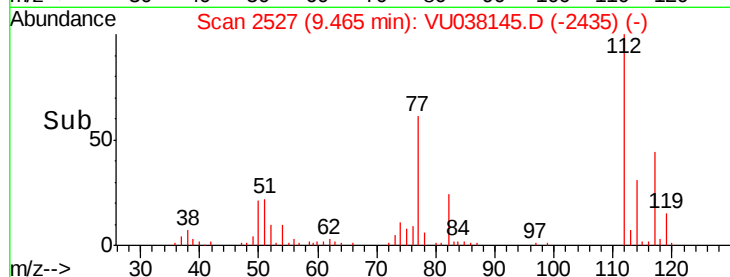
77 60.6 49.9 74.9



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU



#59

1,2,3-Trichloropropane

Concen: 1.324 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038145.D

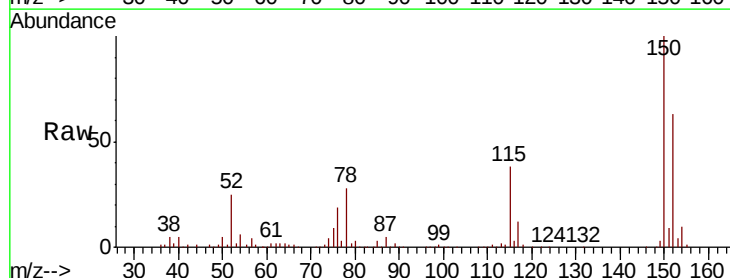
Acq: 13 May 2020 15:53

Tgt Ion: 75 Resp: 27605

Ion Ratio Lower Upper

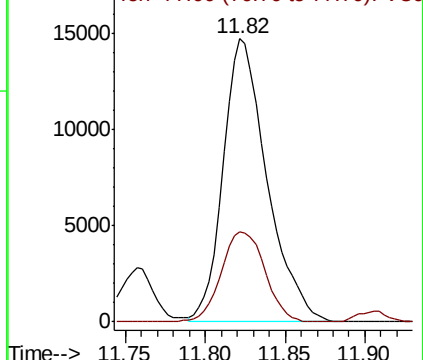
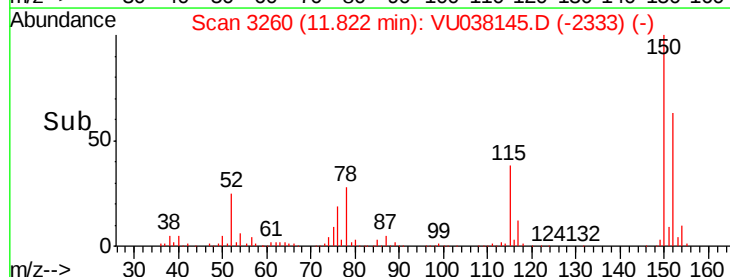
75 100

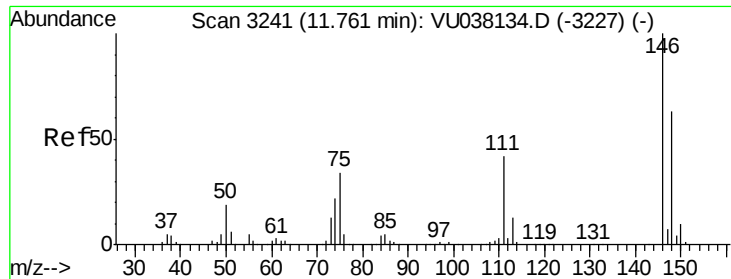
77 31.5 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

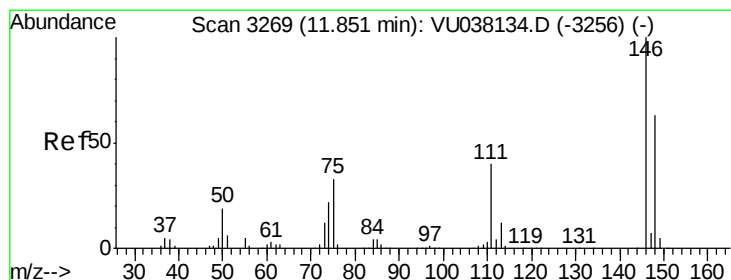
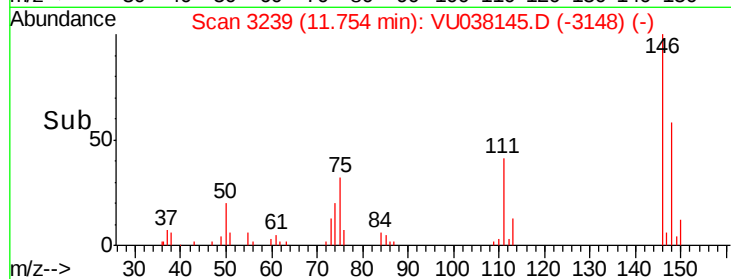
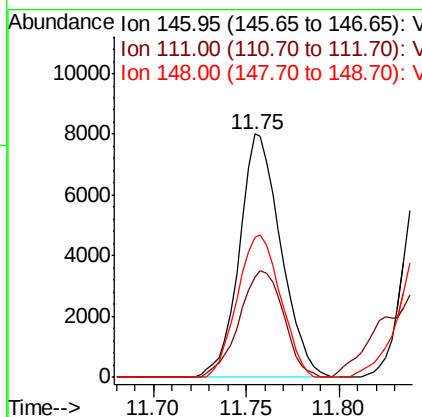
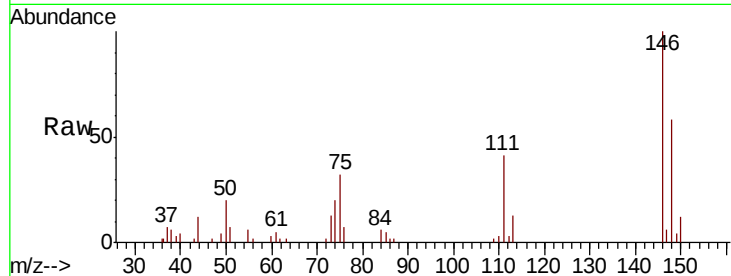




#62
 1,3-Dichlorobenzene
 Concen: 0.221 ug/L
 RT: 11.75 min Scan# 3239
 Delta R.T. -0.01 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

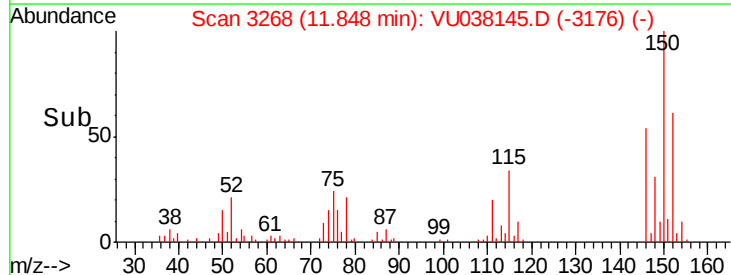
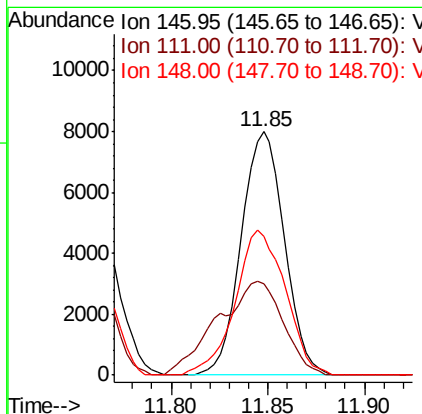
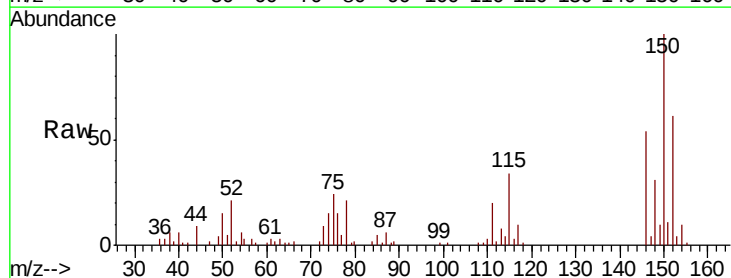
Instrument :
 MSVOA_U
 ClientSampled :

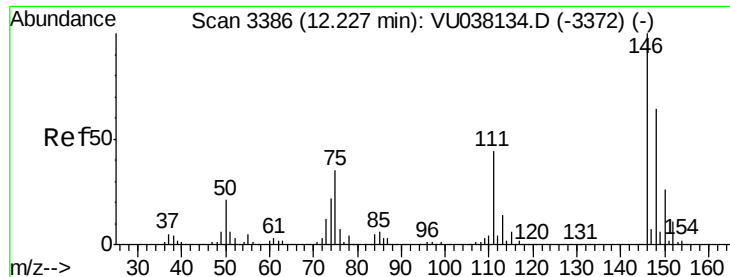
Tot Ion:146 Resp: 12462
 Ion Ratio Lower Upper
 146 100
 111 41.4 28.6 53.2
 148 57.7 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 0.218 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

Tgt Ion:146 Resp: 12452
 Ion Ratio Lower Upper
 146 100
 111 37.3 27.2 50.6
 148 56.8 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 0.094 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU038145.D

Acq: 13 May 2020 15:53

Instrument :

MSVOA_U

ClientSampleId :

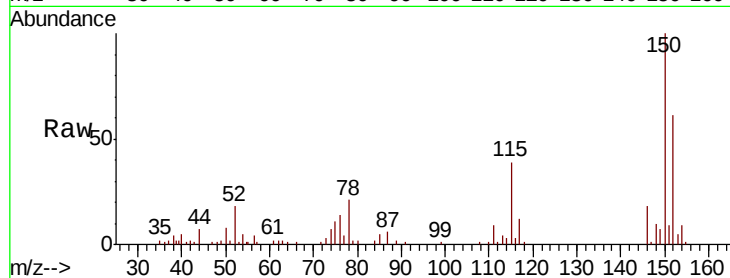
Tot Ion:146 Resp: 5109

Ion Ratio Lower Upper

146 100

111 49.9 35.3 52.9

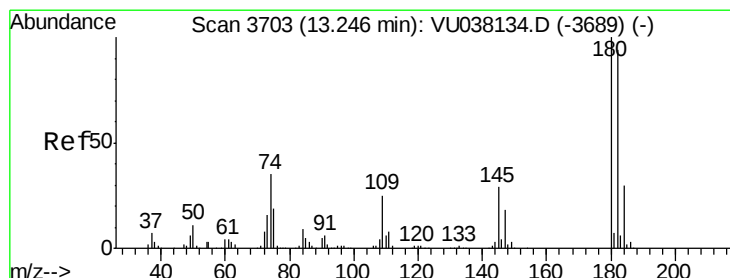
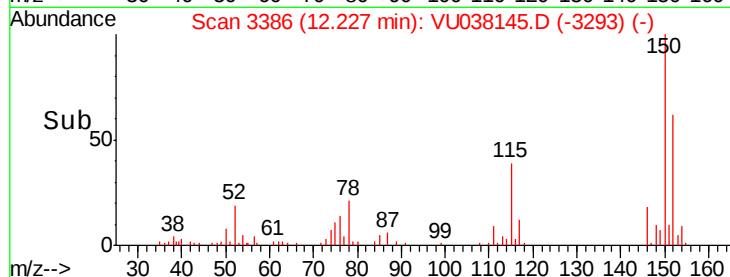
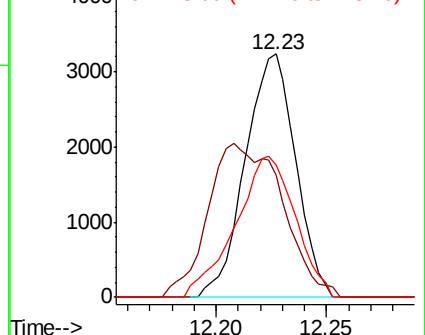
148 54.2 51.0 76.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.373 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. 0.62 min

Lab File: VU038145.D

Acq: 13 May 2020 15:53

Tgt Ion:180 Resp: 15245

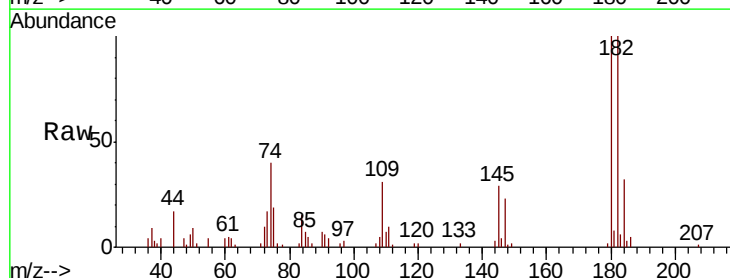
Ion Ratio Lower Upper

180 100

182 101.1 77.4 116.2

184 31.6 24.2 36.2

145 29.1 24.0 36.0

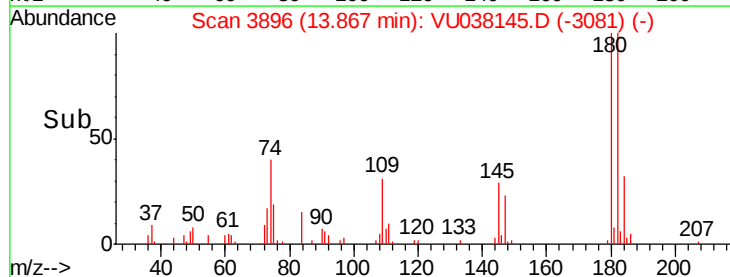
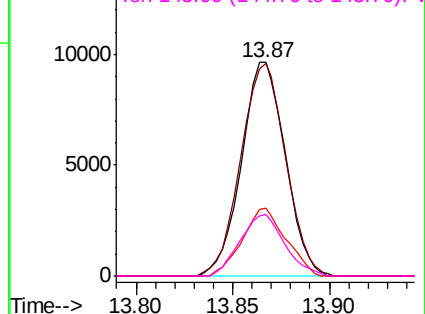


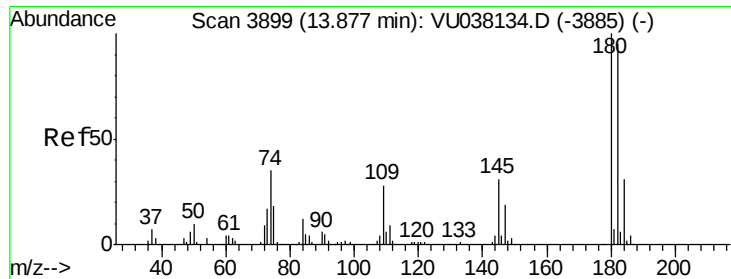
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

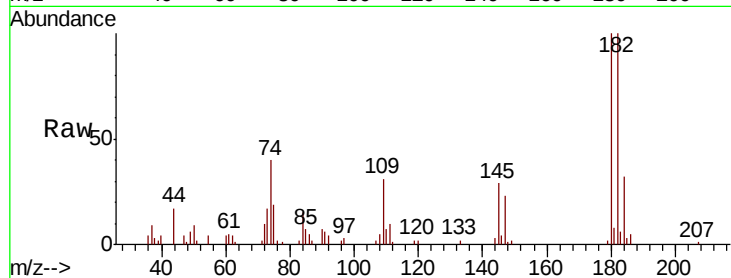




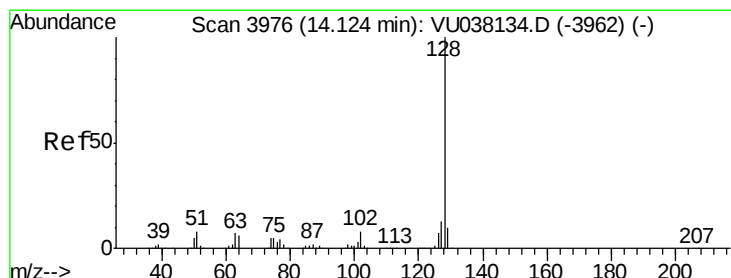
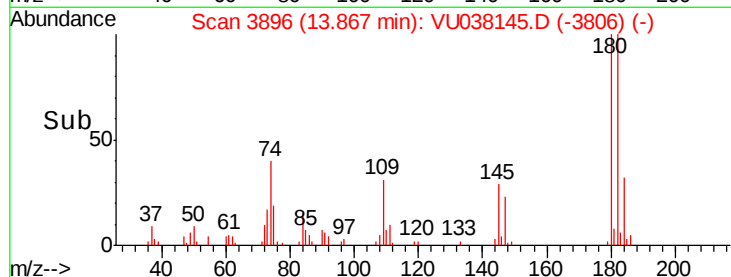
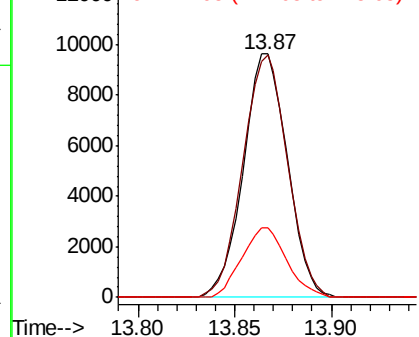
#68
1,2,4-trichlorobenzene
Concen: 0.411 ug/L
RT: 13.87 min Scan# 3896
Delta R.T. -0.01 min
Lab File: VU038145.D
Acq: 13 May 2020 15:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.1	75.0	112.6
145	29.1	24.8	37.2

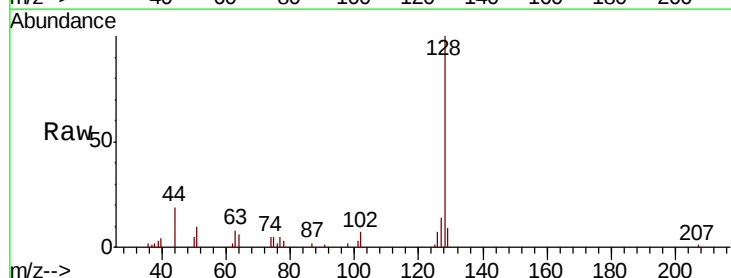


Abundance Ion 179.90 (179.60 to 180.60): V
Ion 182.00 (181.70 to 182.70): V
Ion 144.95 (144.65 to 145.65): V

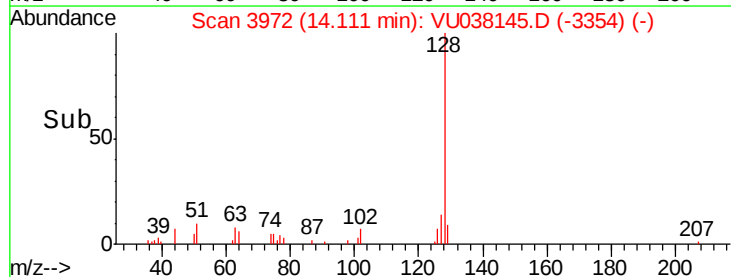
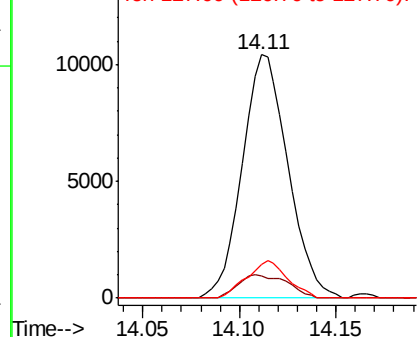


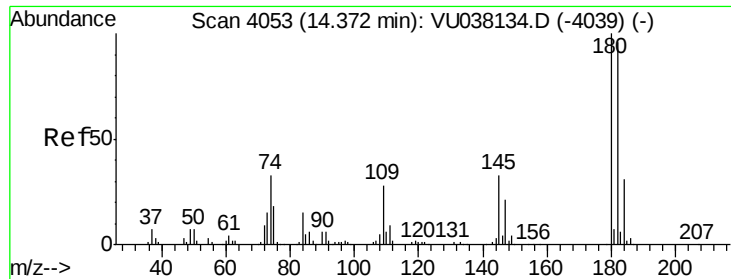
#69
Naphthalene
Concen: 0.220 ug/L
RT: 14.11 min Scan# 3972
Delta R.T. -0.01 min
Lab File: VU038145.D
Acq: 13 May 2020 15:53

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.2	8.7	13.1
127	13.6	10.2	15.4



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

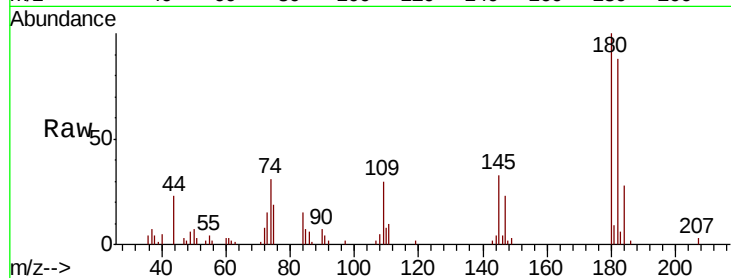




#70
 1,2,3-Trichlorobenzene
 Concen: 0.391 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: VU038145.D
 Acq: 13 May 2020 15:53

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.8	76.3	114.5
145	32.3	26.1	39.1



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

