

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082120\
 Data File : VX018057.D
 Acq On : 21 Aug 2020 14:36
 Operator : JC/SP
 Sample : L3692-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 21 23:53:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	594680	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	977623	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	917575	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	423220	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	399831	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
35) Dibromofluoromethane	5.46	113	320033	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
50) Toluene-d8	8.70	98	1170723	47.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.42%	
62) 4-Bromofluorobenzene	11.12	95	417074	42.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.50%	

Target Compounds

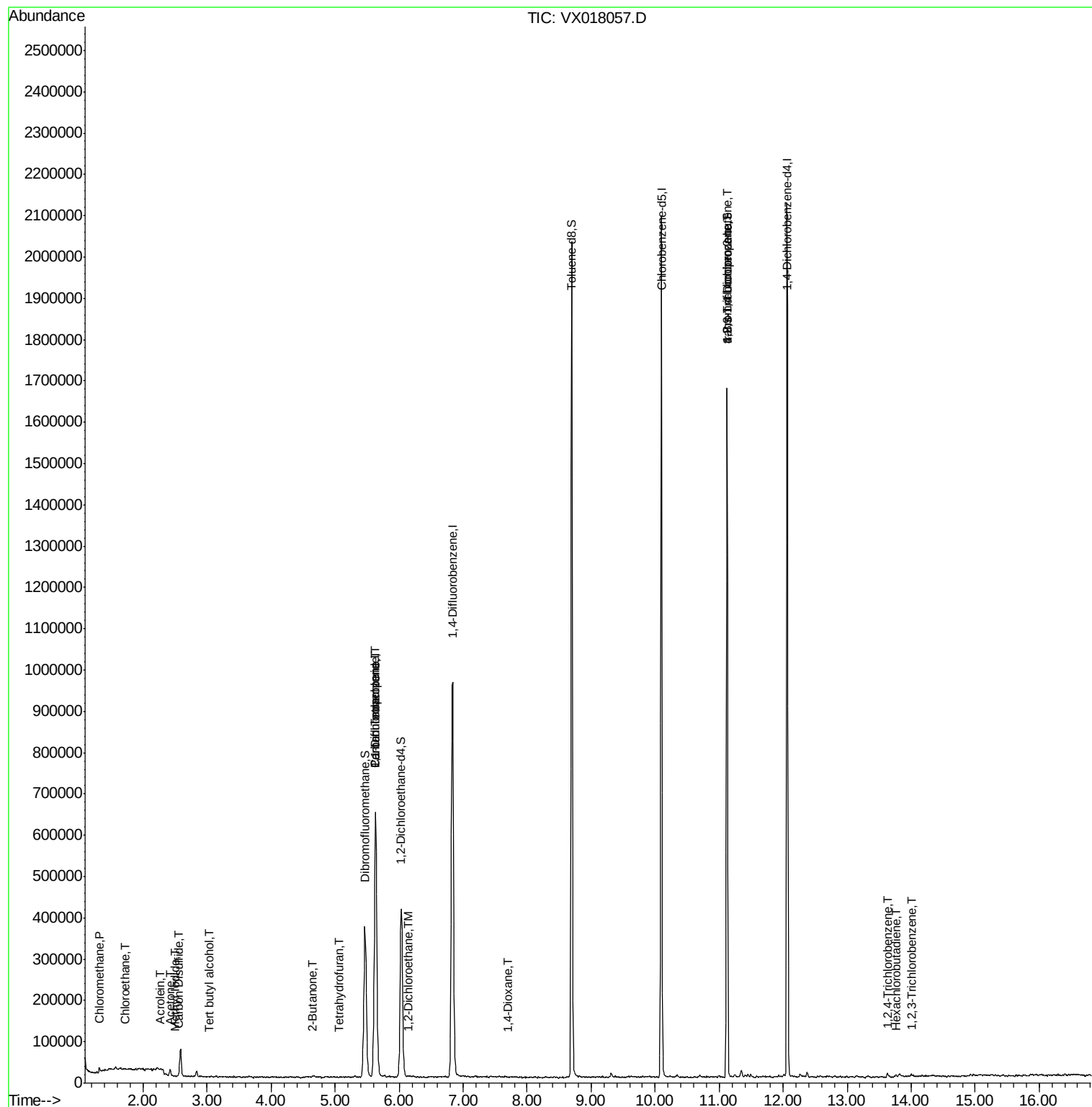
						Qvalue
3) Chloromethane	1.32	50	7332	0.961	ug/l	94
6) Chloroethane	1.72	64	1154	0.283	ug/l #	49
10) Methyl Iodide	2.50	142	1352	5.488	ug/l #	93
11) Tert butyl alcohol	3.03	59	863	0.538	ug/l #	35
13) Acrolein	2.26	56	1542	2.317	ug/l #	57
16) Acetone	2.42	43	17147	5.330	ug/l	96
17) Carbon Disulfide	2.55	76	4911	0.280	ug/l	96
20) Methylene Chloride	2.84	84	6577	Below Cal	#	82
25) 2-Butanone	4.64	43	1243	0.235	ug/l	92
29) Tetrahydrofuran	5.07	42	1272	0.378	ug/l #	67
36) 1,1-Dichloropropene	5.63	75	46289	5.133	ug/l #	52
38) Carbon Tetrachloride	5.63	117	61600	6.062	ug/l #	16
42) 1,2-Dichloroethane	6.15	62	2666	0.263	ug/l	92
49) 1,4-Dioxane	7.70	88	126	0.826	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	213054	22.630	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	213054	61.120	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.62	180	2034	0.239	ug/l	90
94) Hexachlorobutadiene	13.76	225	1134	0.338	ug/l	77
96) 1,2,3-Trichlorobenzene	14.00	180	1692	0.201	ug/l	97

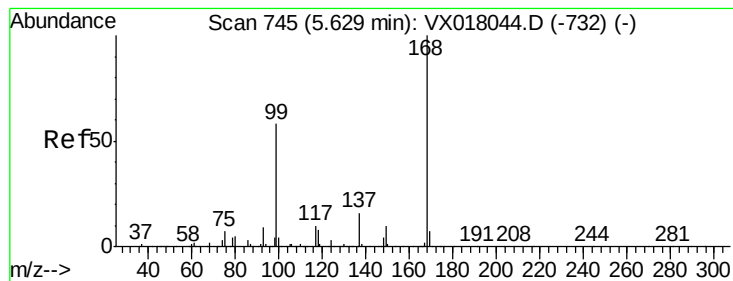
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA_X

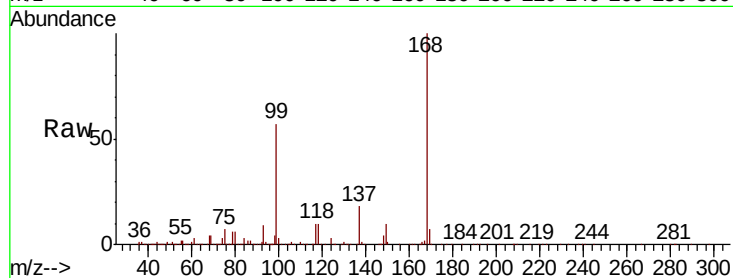
ClientSampleId :

Tot Ion:168 Resp: 594680

Ion Ratio Lower Upper

168 100

99 56.9 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

150000

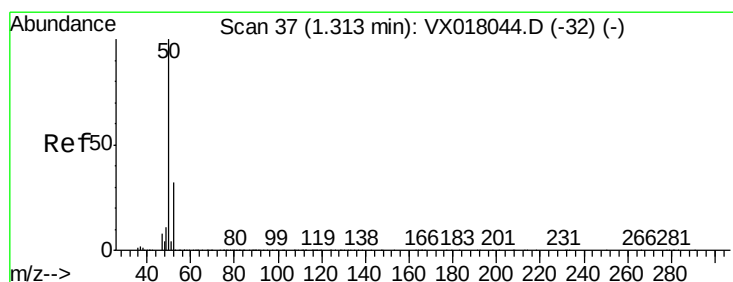
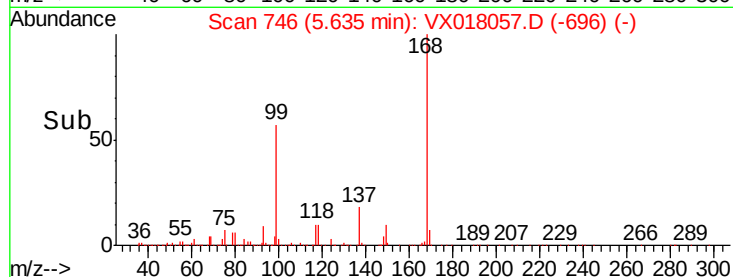
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.961 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX018057.D

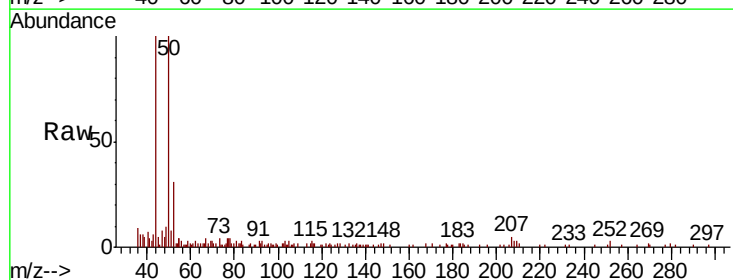
Acq: 21 Aug 2020 14:36

Tgt Ion: 50 Resp: 7332

Ion Ratio Lower Upper

50 100

52 28.6 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

8000

6000

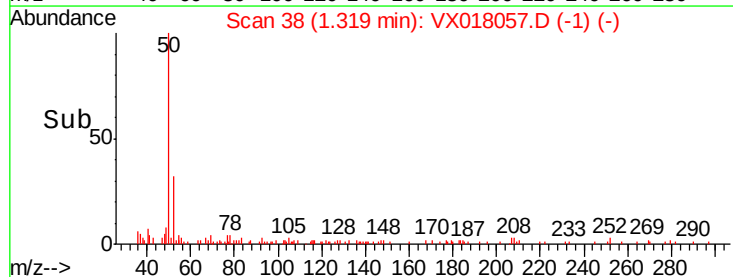
4000

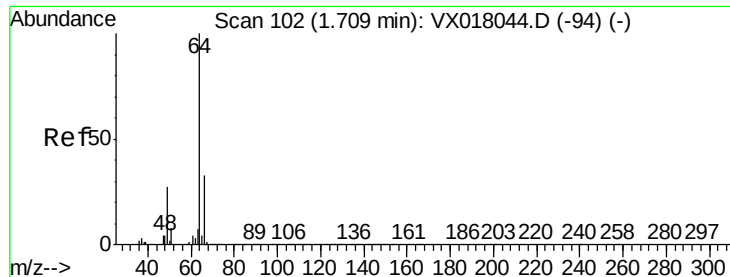
2000

0

Time-->

1.30 1.35





#6

Chloroethane

Concen: 0.283 ug/l

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA_X

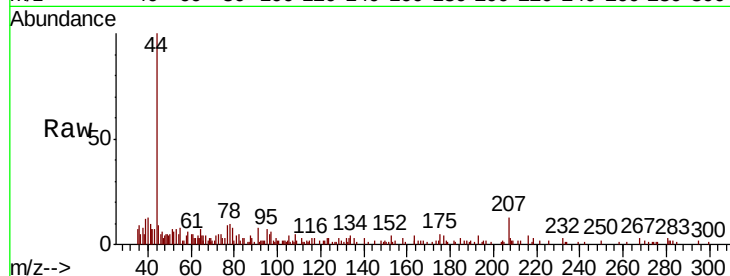
ClientSampleId :

Tot Ion: 64 Resp: 1154

Ion Ratio Lower Upper

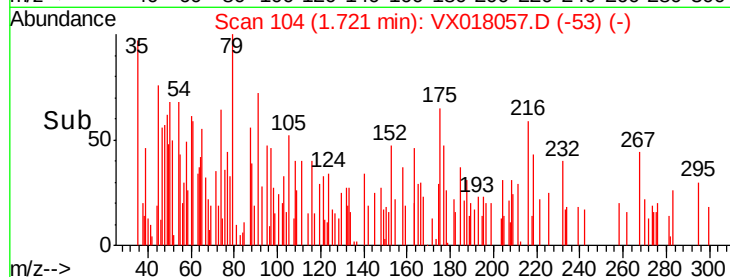
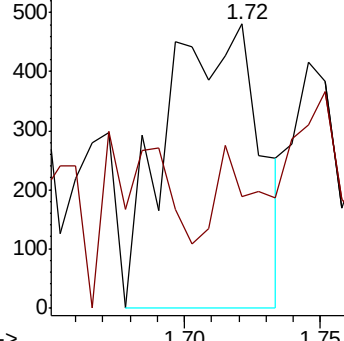
64 100

66 4.6 26.6 39.8#

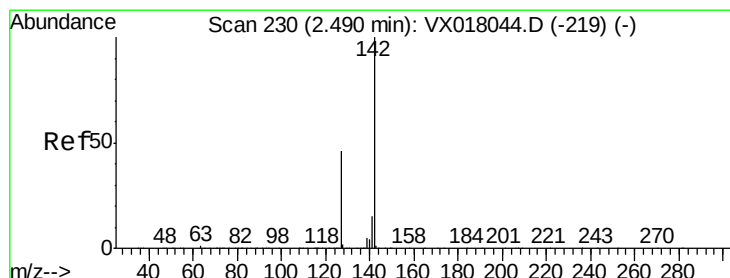


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#10

Methyl Iodide

Concen: 5.488 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

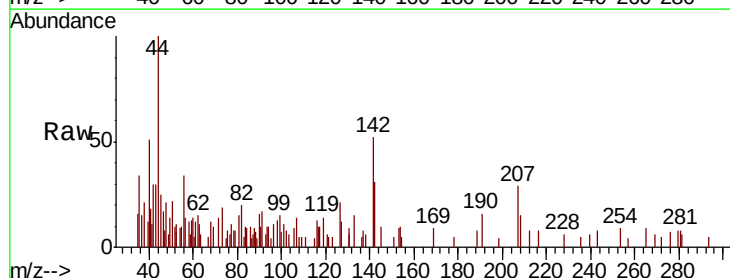
Tgt Ion: 142 Resp: 1352

Ion Ratio Lower Upper

142 100

127 48.1 37.0 55.6

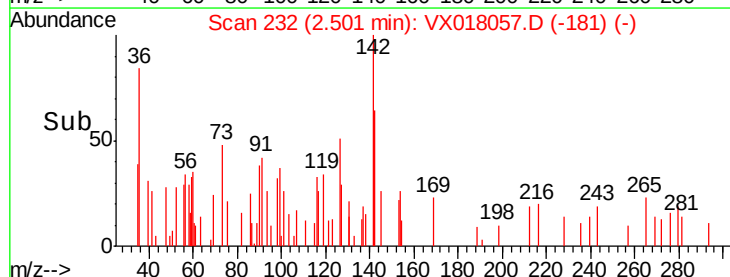
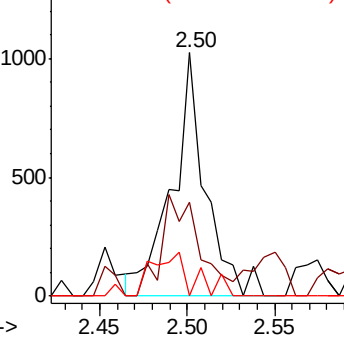
141 23.6 11.5 17.3#



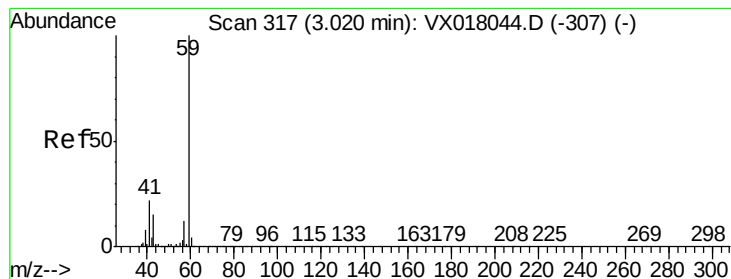
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

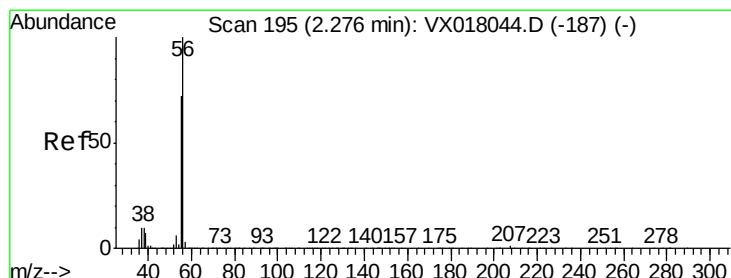
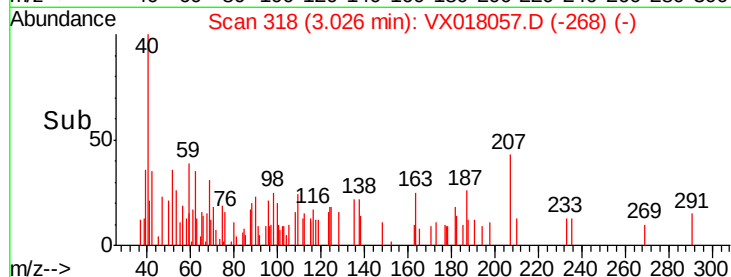
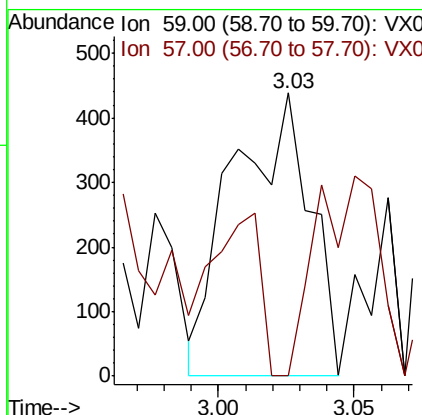
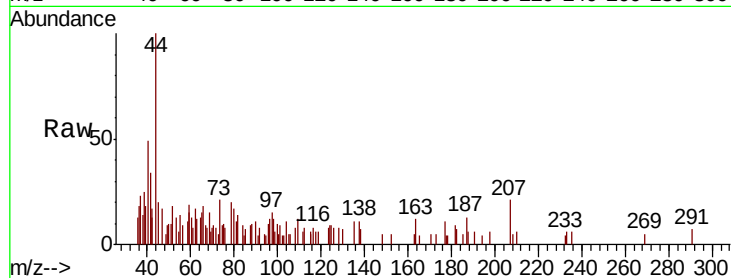


#11

Tert butyl alcohol
Concen: 0.538 ug/l
RT: 3.03 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX018057.D
Acq: 21 Aug 2020 14:36

Instrument :
MSVOA_X
ClientSampled :

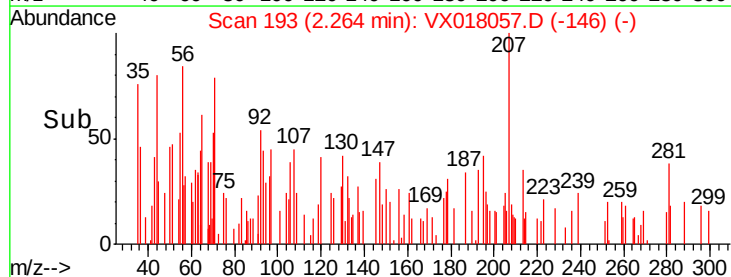
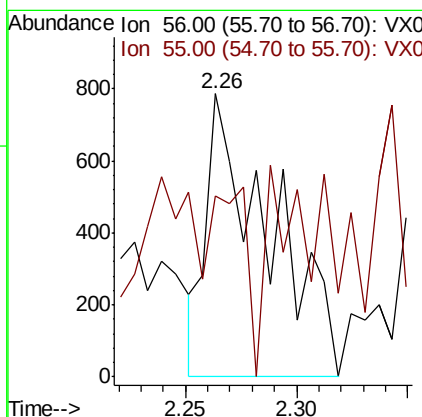
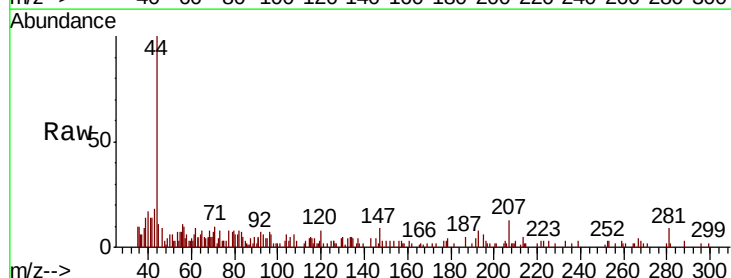
Tot Ion: 59 Resp: 863
Ion Ratio Lower Upper
59 100
57 35.9 8.9 13.3#

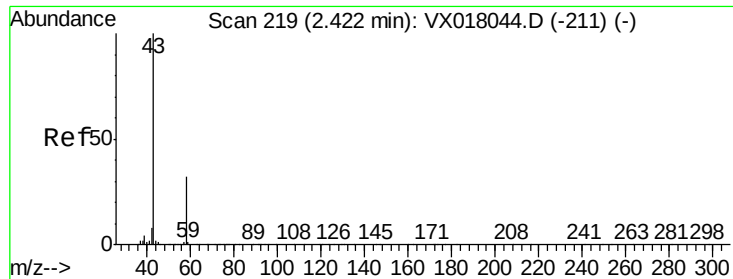


#13

Acrolein
Concen: 2.317 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX018057.D
Acq: 21 Aug 2020 14:36

Tgt Ion: 56 Resp: 1542
Ion Ratio Lower Upper
56 100
55 35.8 57.0 85.6#

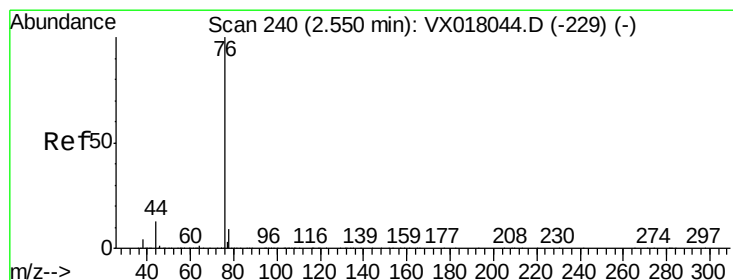
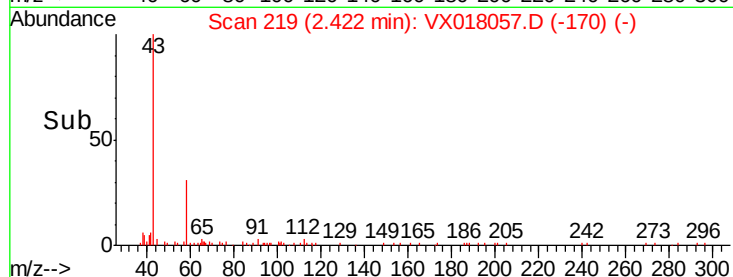
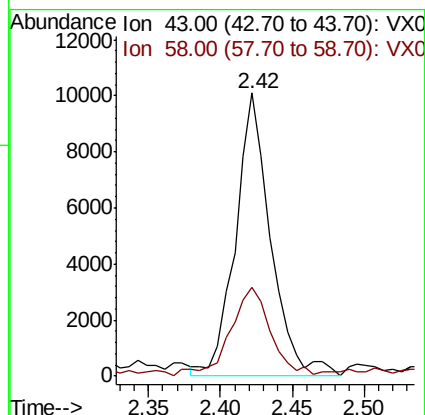
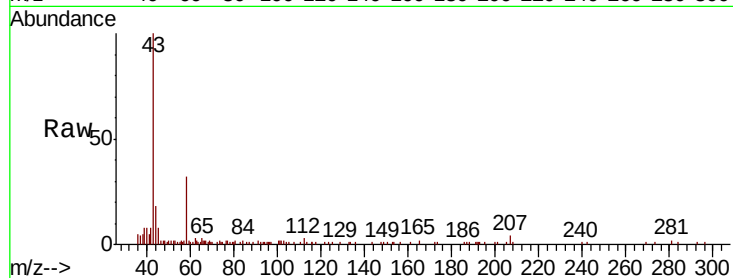




#16
Acetone
Concen: 5.330 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX018057.D
Acq: 21 Aug 2020 14:36

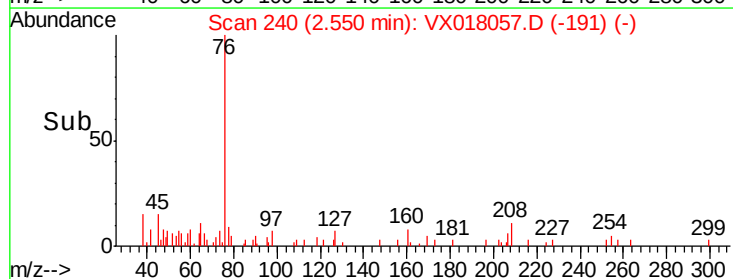
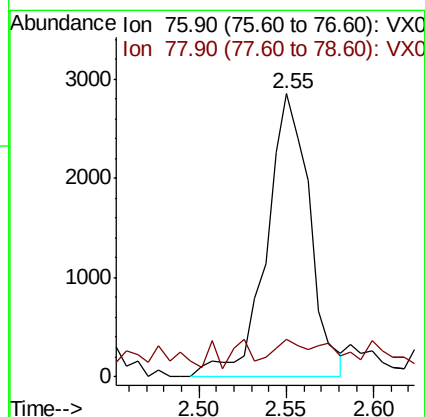
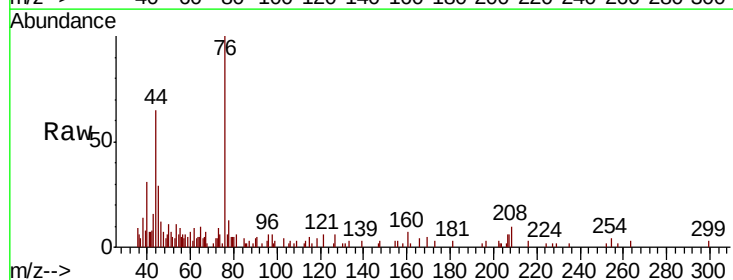
Instrument :
MSVOA_X
ClientSampleId :

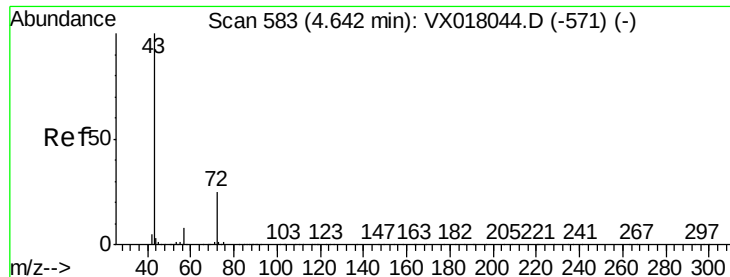
Tot Ion: 43 Resp: 17147
Ion Ratio Lower Upper
43 100
58 29.9 25.5 38.3



#17
Carbon Disulfide
Concen: 0.280 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX018057.D
Acq: 21 Aug 2020 14:36

Tgt Ion: 76 Resp: 4911
Ion Ratio Lower Upper
76 100
78 7.9 7.4 11.0





#25

2-Butanone

Concen: 0.235 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA_X

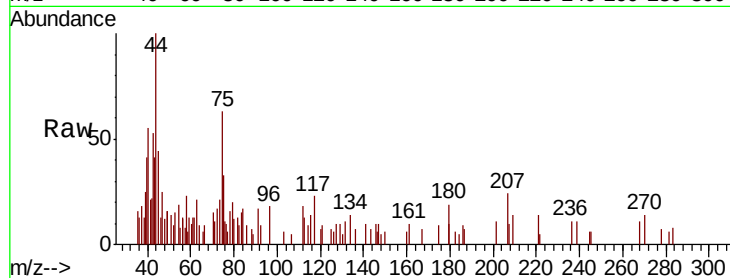
ClientSampleId :

Tot Ion: 43 Resp: 1243

Ion Ratio Lower Upper

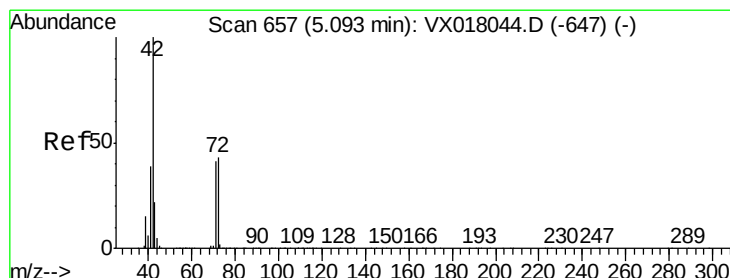
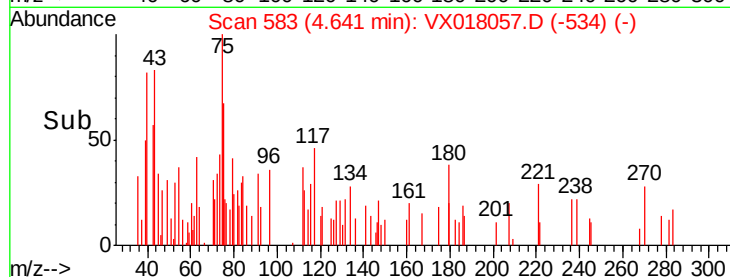
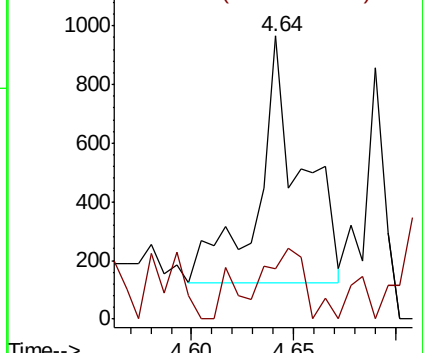
43 100

72 20.6 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.378 ug/l

RT: 5.07 min Scan# 654

Delta R.T. -0.02 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

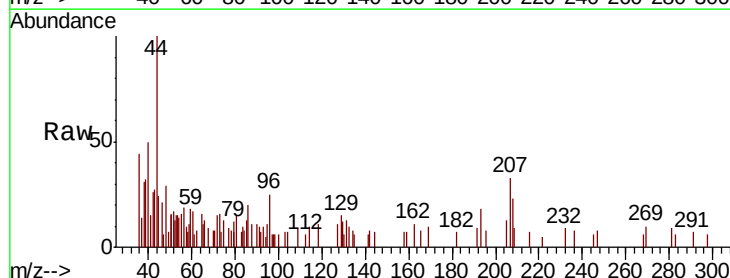
Tgt Ion: 42 Resp: 1272

Ion Ratio Lower Upper

42 100

72 18.3 34.2 51.4#

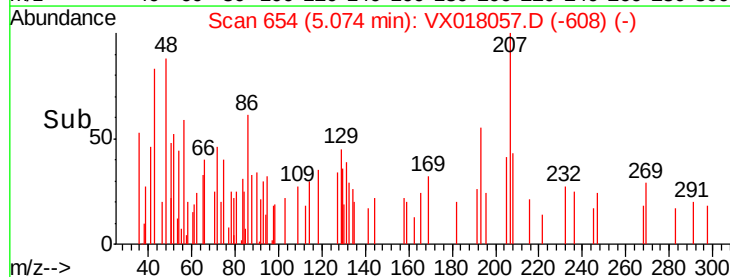
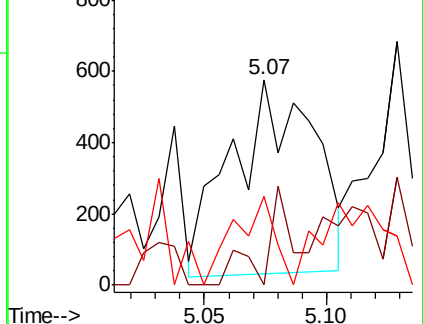
71 22.7 32.1 48.1#

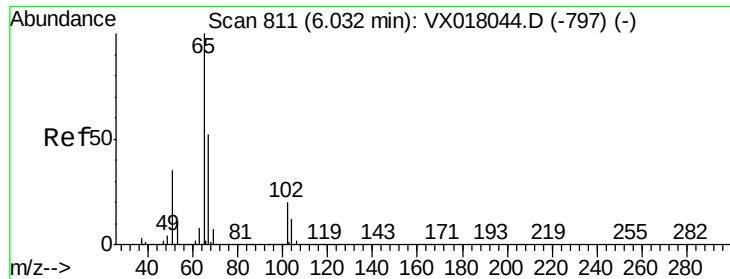


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

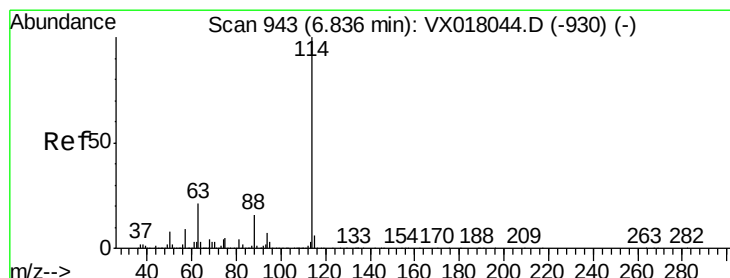
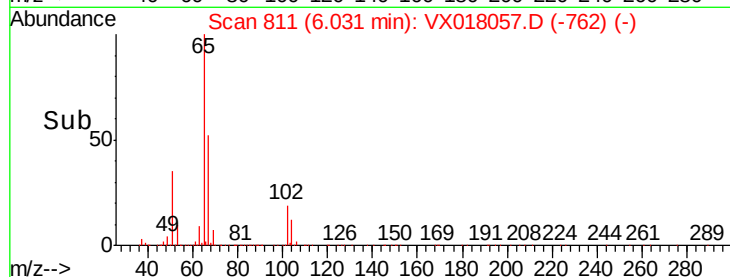
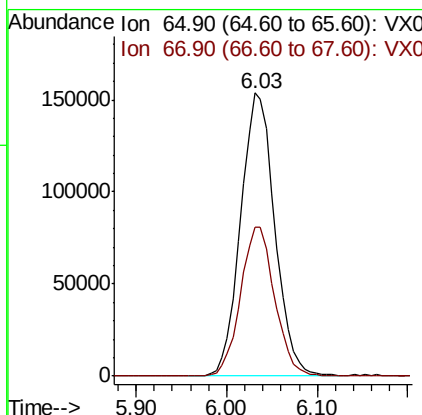
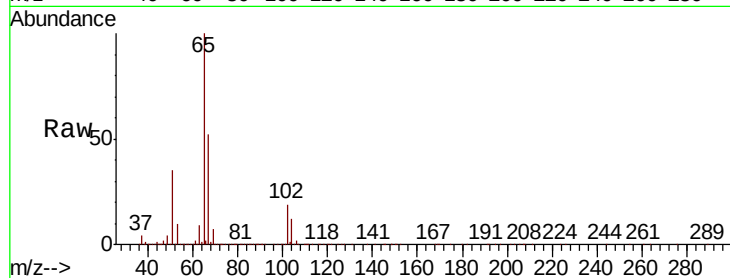




#33
 1,2-Dichloroethane-d4
 Concen: 48.431 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX018057.D
 Acq: 21 Aug 2020 14:36

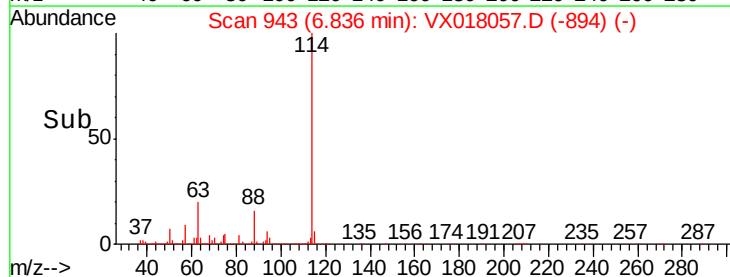
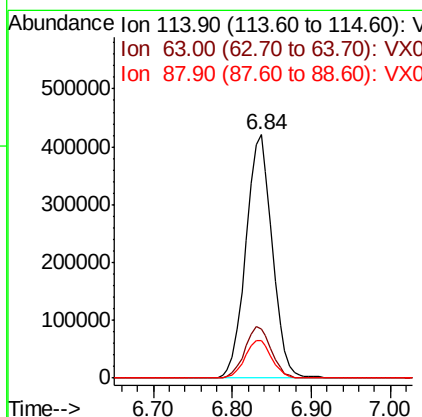
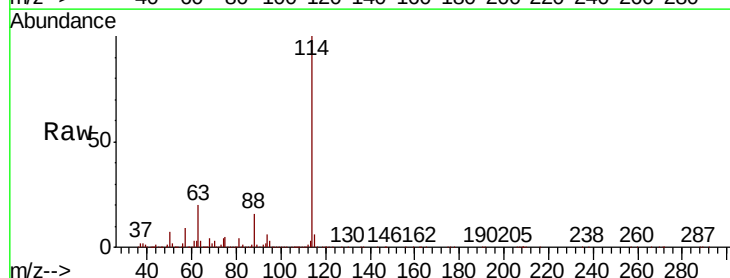
Instrument :
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 ClientSampleId :

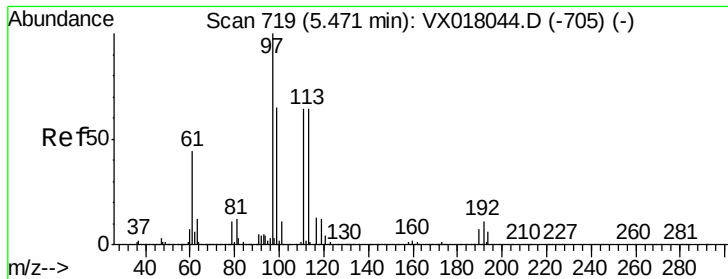
Tot Ion: 65 Resp: 399831
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: VX018057.D
 Acq: 21 Aug 2020 14:36

Tgt Ion: 114 Resp: 977623
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.6
 88 15.6 0.0 31.8

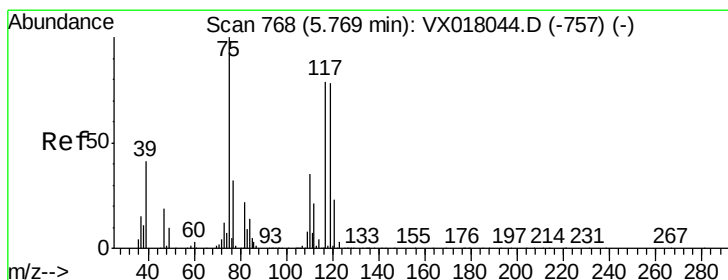
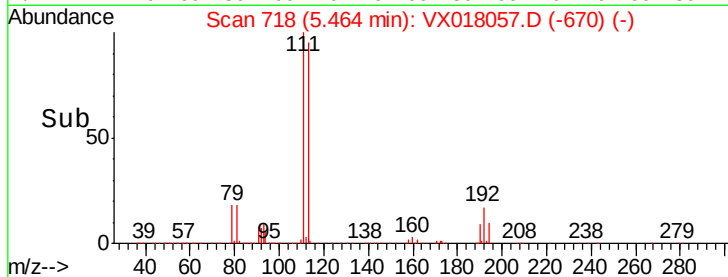
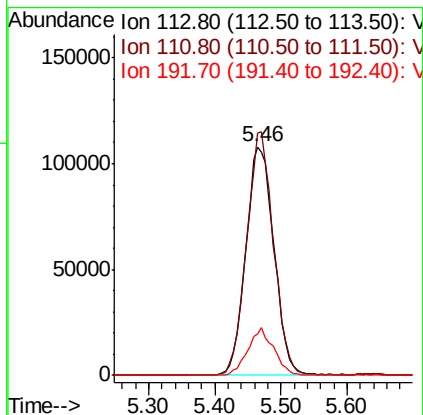
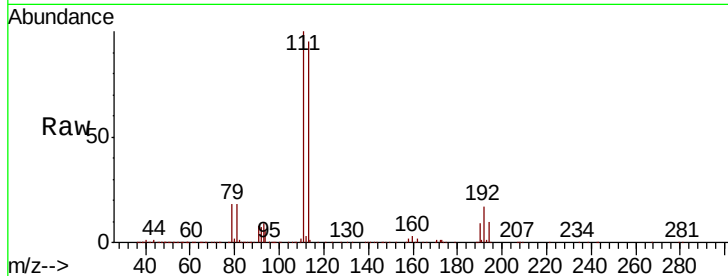




#35
 Dibromofluoromethane
 Concen: 48.067 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX018057.D
 Acq: 21 Aug 2020 14:36

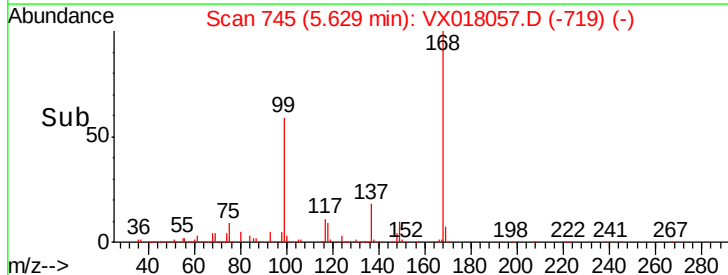
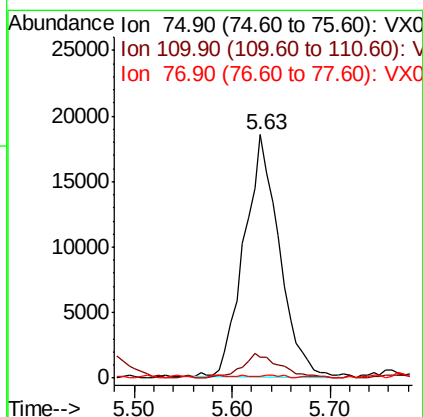
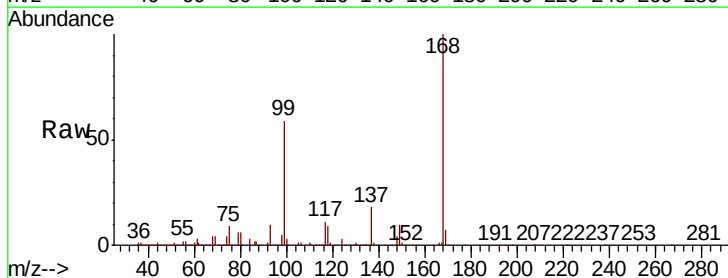
Instrument :
 MSVOA_X
 ClientSampleId :

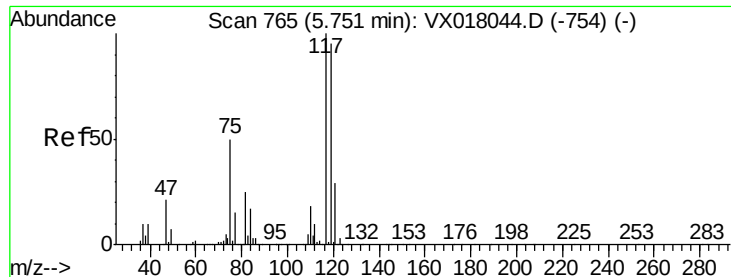
Tot Ion:113 Resp: 320033
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.6 122.4
 192 19.2 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 5.133 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018057.D
 Acq: 21 Aug 2020 14:36

Tgt Ion: 75 Resp: 46289
 Ion Ratio Lower Upper
 75 100
 110 10.9 18.0 54.0#
 77 0.6 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 6.062 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

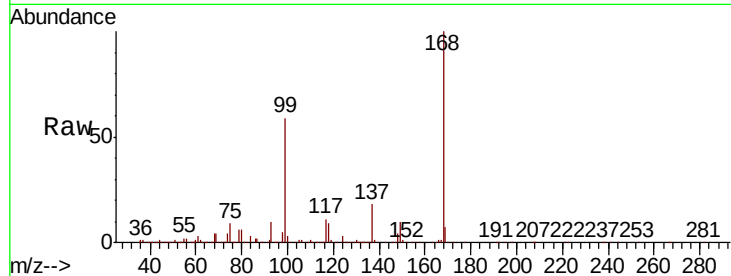
Tot Ion:117 Resp: 61600

Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.6#

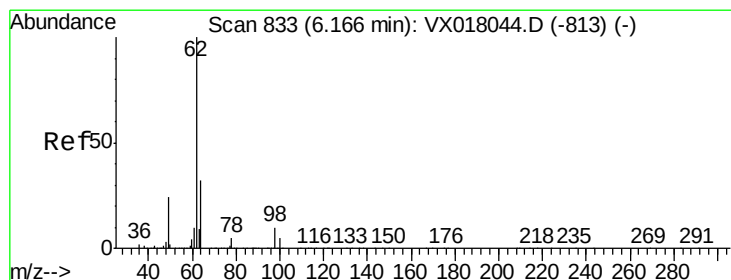
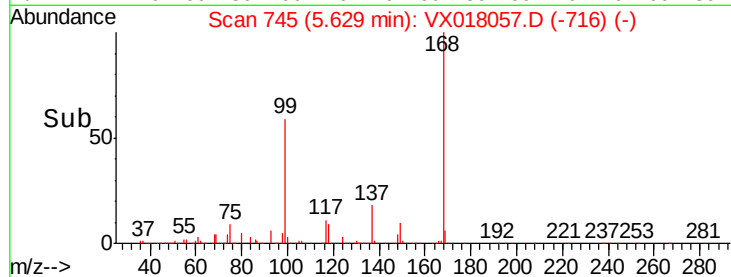
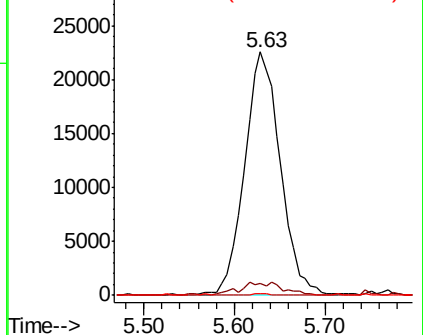
121 0.5 23.4 35.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#42

1,2-Dichloroethane

Concen: 0.263 ug/l

RT: 6.15 min Scan# 830

Delta R.T. -0.02 min

Lab File: VX018057.D

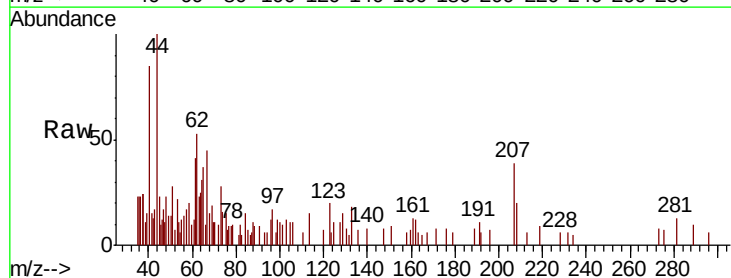
Acq: 21 Aug 2020 14:36

Tgt Ion: 62 Resp: 2666

Ion Ratio Lower Upper

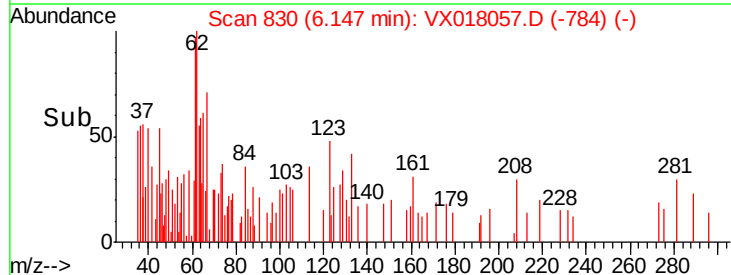
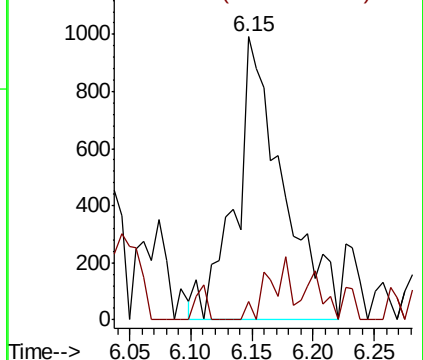
62 100

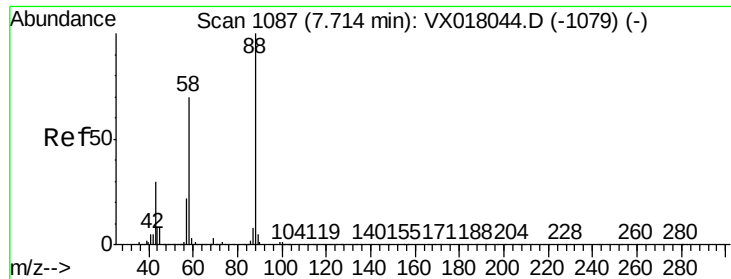
98 6.3 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#49

1,4-Dioxane

Concen: 0.826 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA_X

ClientSampled :

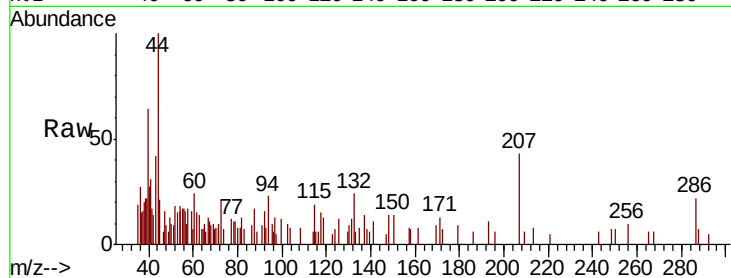
Tot Ion: 88 Resp: 126

Ion Ratio Lower Upper

88 100

43 446.8 27.4 41.0#

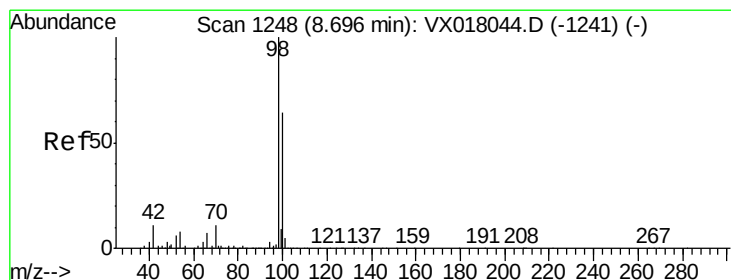
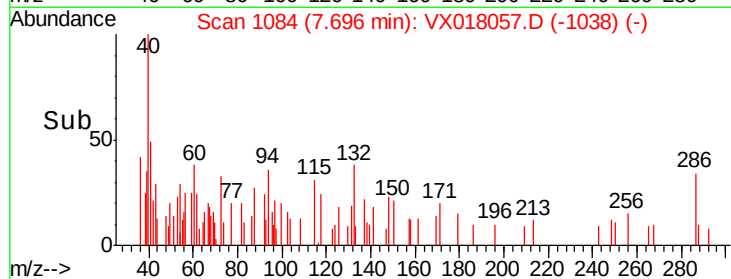
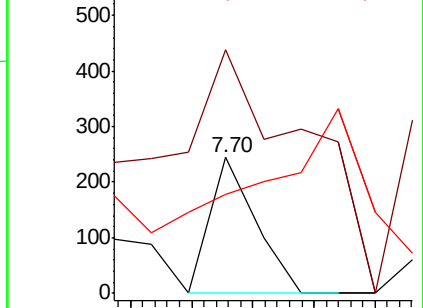
58 227.0 56.4 84.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 47.210 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018057.D

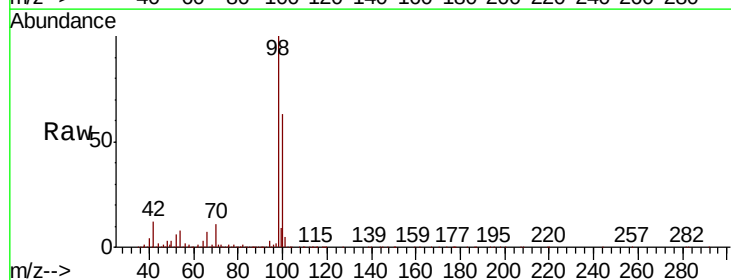
Acq: 21 Aug 2020 14:36

Tgt Ion: 98 Resp: 1170723

Ion Ratio Lower Upper

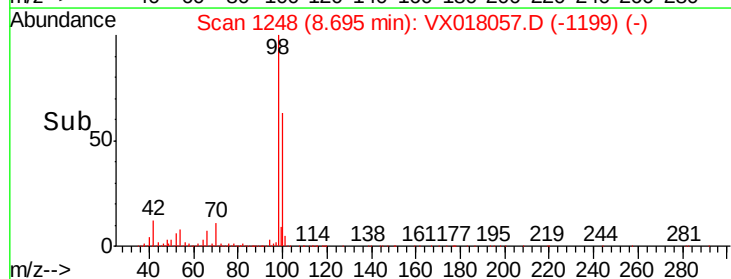
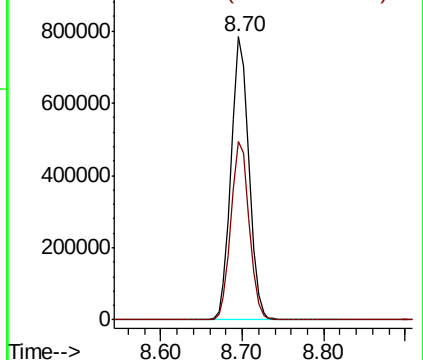
98 100

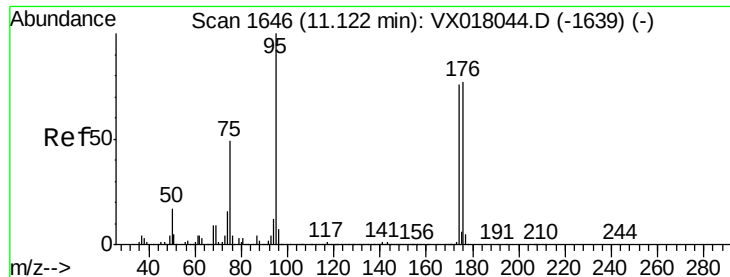
100 64.2 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 42.747 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA_X

ClientSampled :

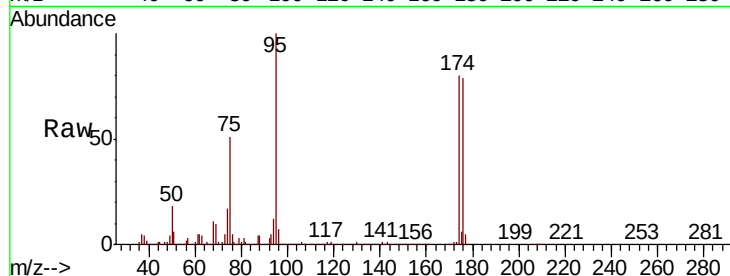
Tot Ion: 95 Resp: 417074

Ion Ratio Lower Upper

95 100

174 78.8 0.0 160.2

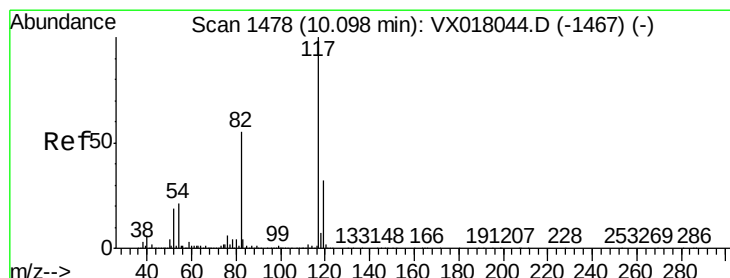
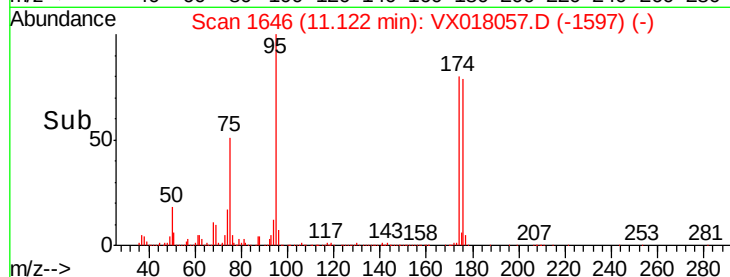
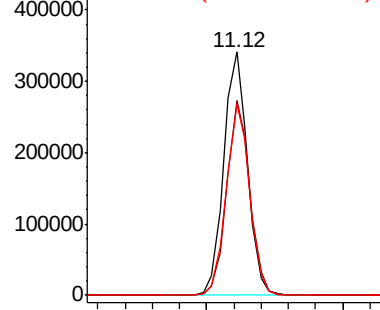
176 77.9 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

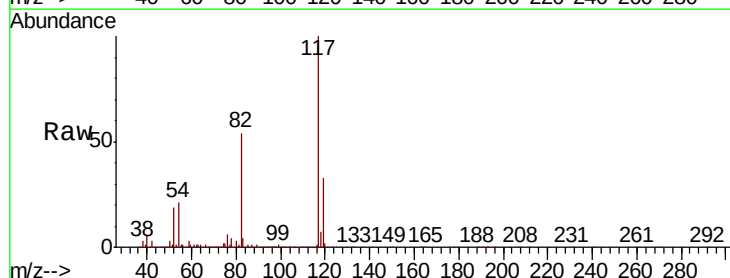
Tgt Ion: 117 Resp: 917575

Ion Ratio Lower Upper

117 100

82 54.1 44.2 66.2

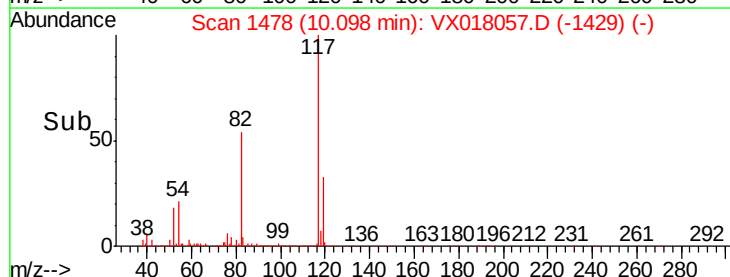
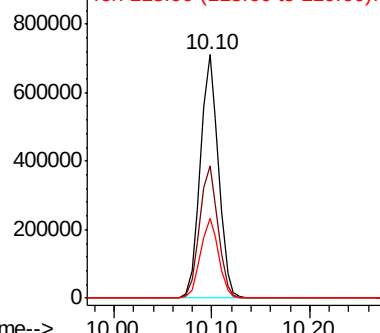
119 32.9 25.7 38.5

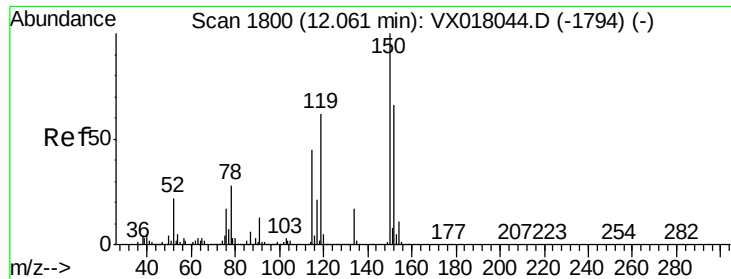


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

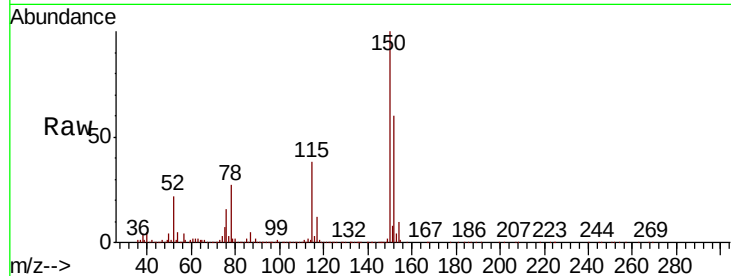
Tot Ion:152 Resp: 423220

Ion Ratio Lower Upper

152 100

115 60.3 41.5 124.5

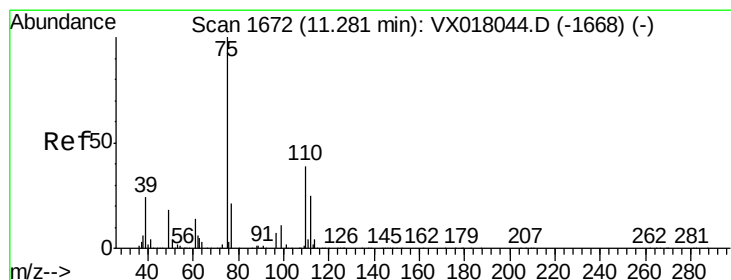
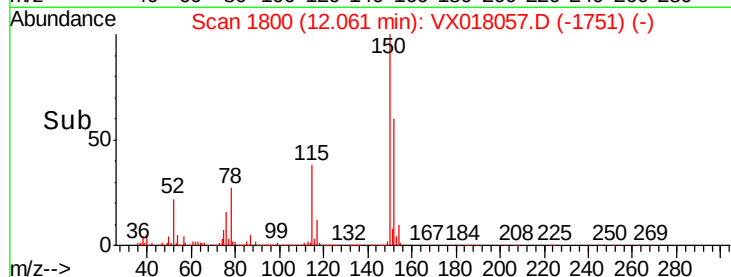
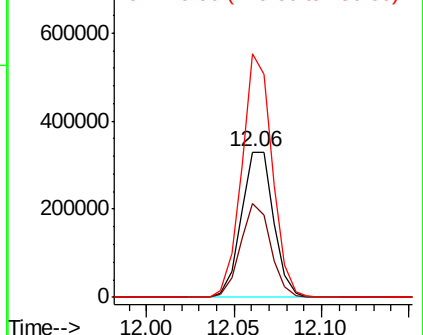
150 157.5 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.630 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018057.D

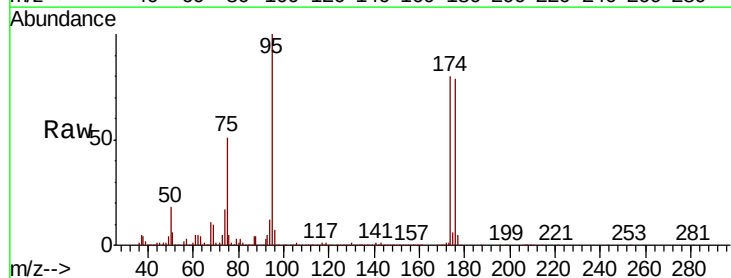
Acq: 21 Aug 2020 14:36

Tgt Ion: 75 Resp: 213054

Ion Ratio Lower Upper

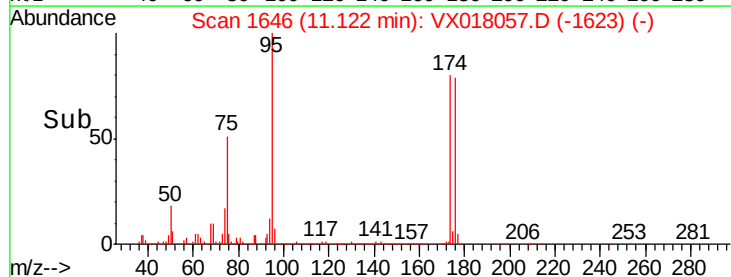
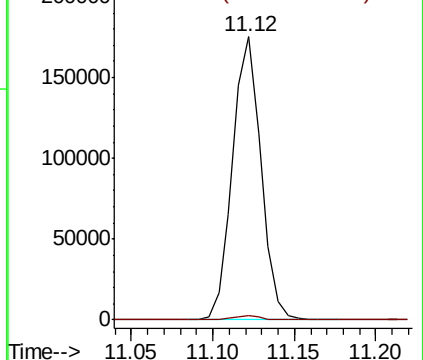
75 100

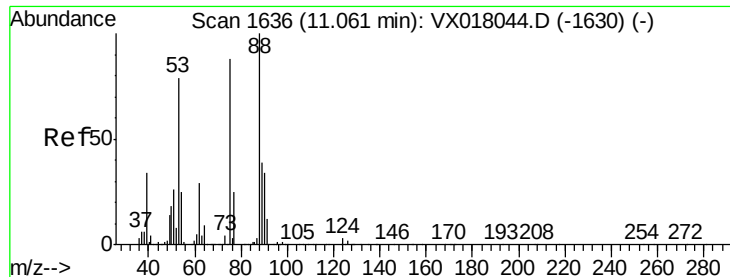
77 1.6 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.120 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

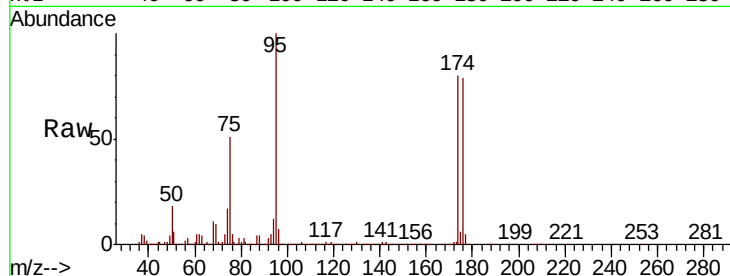
Tot Ion: 75 Resp: 213054

Ion Ratio Lower Upper

75 100

53 0.3 74.7 112.1#

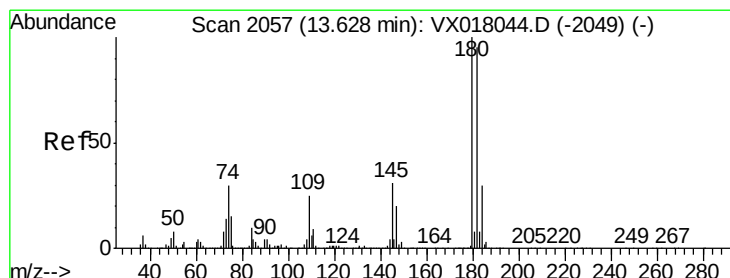
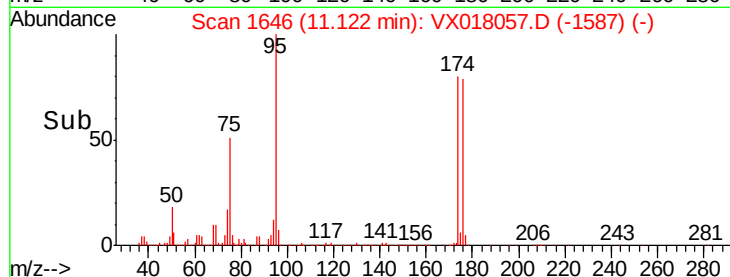
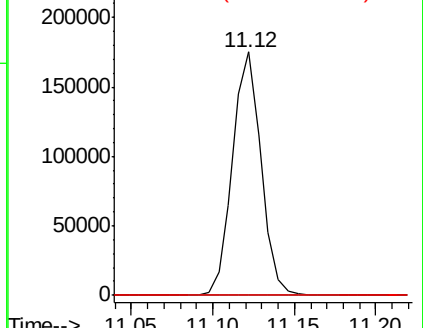
89 0.1 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.239 ug/l

RT: 13.62 min Scan# 2056

Delta R.T. -0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

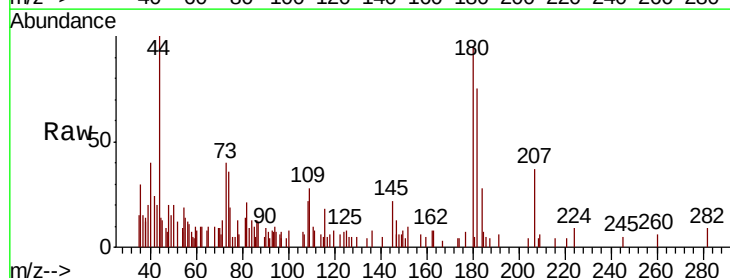
Tgt Ion: 180 Resp: 2034

Ion Ratio Lower Upper

180 100

182 100.4 47.5 142.6

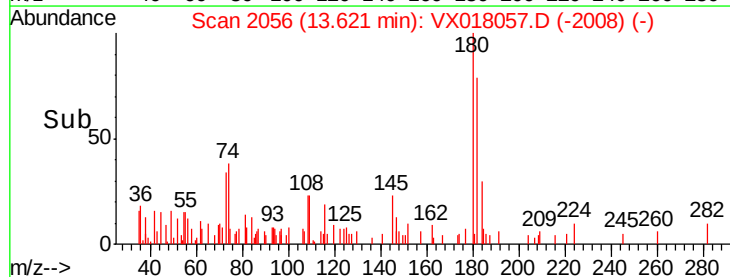
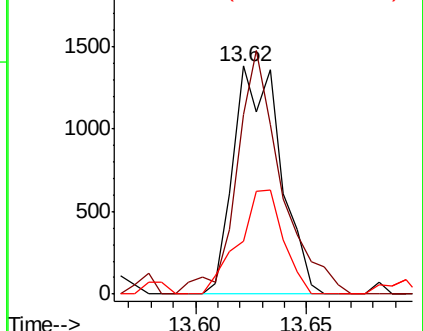
145 43.4 15.7 47.1

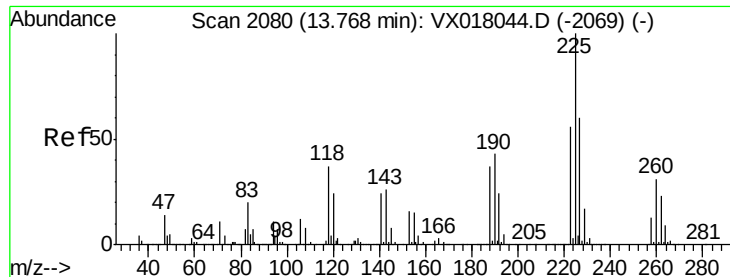


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.338 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

Instrument :

MSVOA_X

ClientSampled :

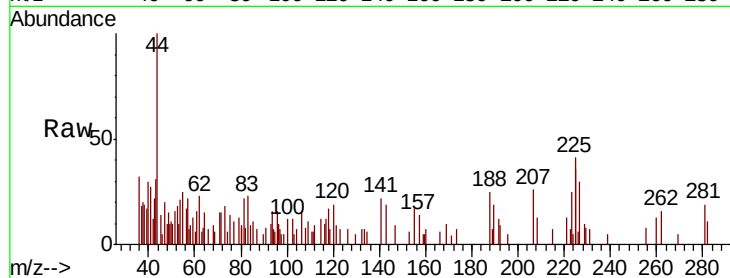
Tot Ion:225 Resp: 1134

Ion Ratio Lower Upper

225 100

223 52.7 30.7 92.1

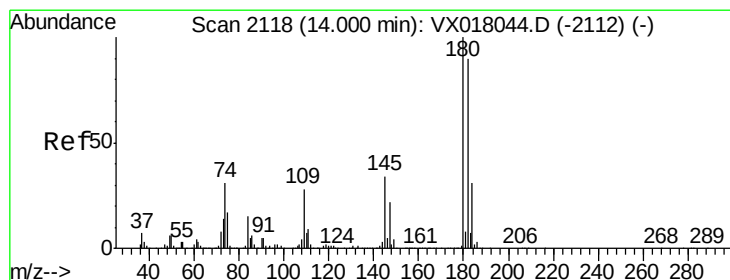
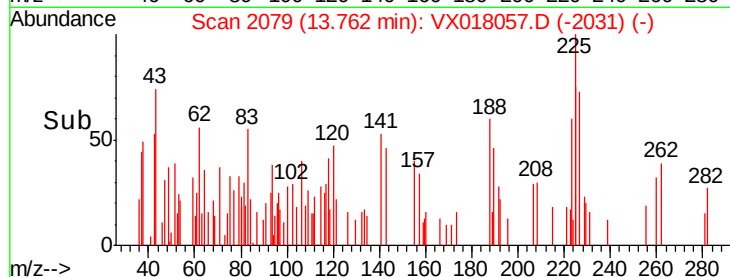
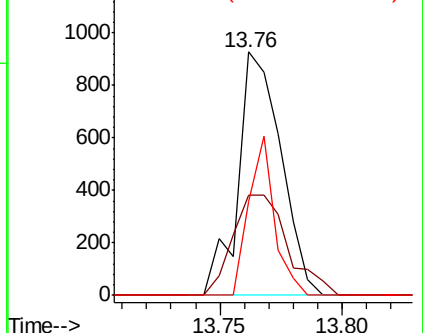
227 38.8 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.201 ug/l

RT: 14.00 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VX018057.D

Acq: 21 Aug 2020 14:36

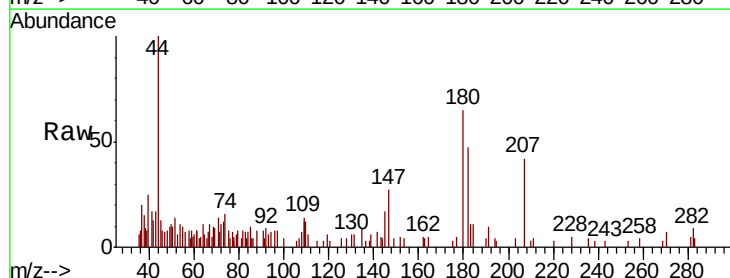
Tgt Ion:180 Resp: 1692

Ion Ratio Lower Upper

180 100

182 91.9 47.3 142.0

145 36.6 17.5 52.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

