

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012920\
 Data File : VX014763.D
 Acq On : 29 Jan 2020 12:27
 Operator : JC/SP
 Sample : L1291-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 29 22:47:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	450911	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	711403	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	637145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	278506	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	262156	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
35) Dibromofluoromethane	5.49	113	217718	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	
50) Toluene-d8	8.71	98	845770	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
62) 4-Bromofluorobenzene	11.13	95	280941	45.70	ug/l	0.00
Spiked Amount			Recovery	=	91.40%	

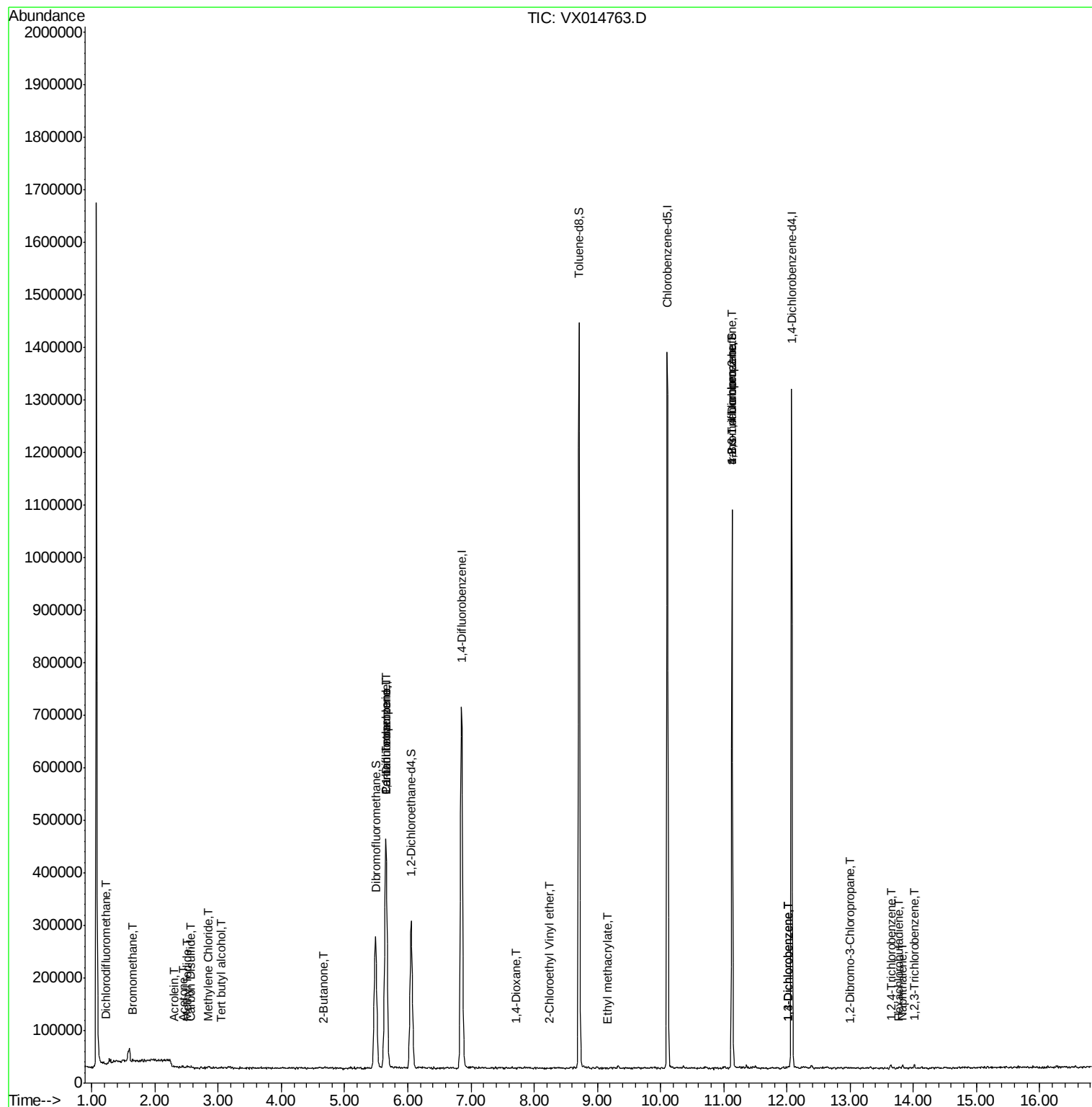
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.22	85	465	0.607	ug/l #	42
5) Bromomethane	1.64	94	1388	0.310	ug/l	95
6) Chloroethane	1.69	64	285	Below Cal		93
10) Methyl Iodide	2.51	142	2747	0.464	ug/l #	70
11) Tert butyl alcohol	3.04	59	640	0.541	ug/l #	1
13) Acrolein	2.29	56	456	0.489	ug/l #	14
16) Acetone	2.44	43	2846	1.136	ug/l #	89
17) Carbon Disulfide	2.56	76	3193	0.261	ug/l #	87
20) Methylene Chloride	2.84	84	2445	0.458	ug/l	92
25) 2-Butanone	4.66	43	1035	0.250	ug/l #	50
36) 1,1-Dichloropropene	5.65	75	32692	4.946	ug/l #	51
38) Carbon Tetrachloride	5.65	117	41077	6.507	ug/l #	15
49) 1,4-Dioxane	7.72	88	76	0.605	ug/l #	1
56) Ethyl methacrylate	9.17	69	355	1.824	ug/l #	58
58) 2-Chloroethyl Vinyl ether	8.24	63	814	0.315	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	136217	21.022	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	136217	59.826	ug/l #	10
87) 1,3-Dichlorobenzene	12.03	146	1966	0.208	ug/l	89
88) 1,4-Dichlorobenzene	12.03	146	1966	0.208	ug/l	87
92) 1,2-Dibromo-3-Chloropropan	12.99	75	406	0.270	ug/l	69
93) 1,2,4-Trichlorobenzene	13.64	180	1985	0.328	ug/l #	85
94) Hexachlorobutadiene	13.77	225	866	0.278	ug/l	79
95) Naphthalene	13.84	128	4380	1.152	ug/l #	85
96) 1,2,3-Trichlorobenzene	14.02	180	1874	0.306	ug/l #	81

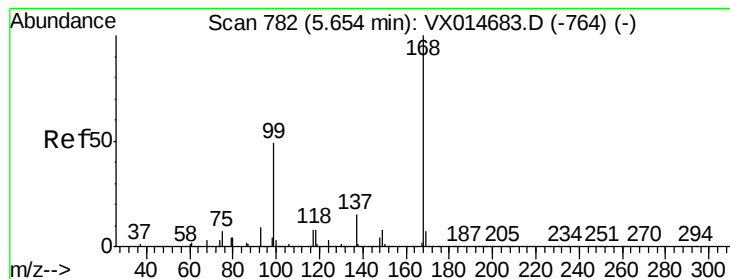
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX012920\
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Acq On : 29 Jan 2020 12:27
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ClientSampleId :

Quant Time: Jan 29 22:47:16 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 22 12:35:15 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_X

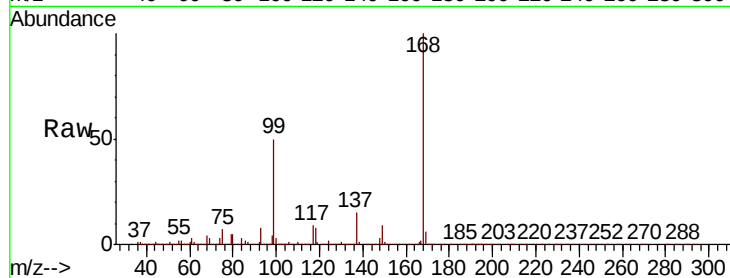
ClientSampled :

Tot Ion:168 Resp: 450911

Ion Ratio Lower Upper

168 100

99 49.6 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

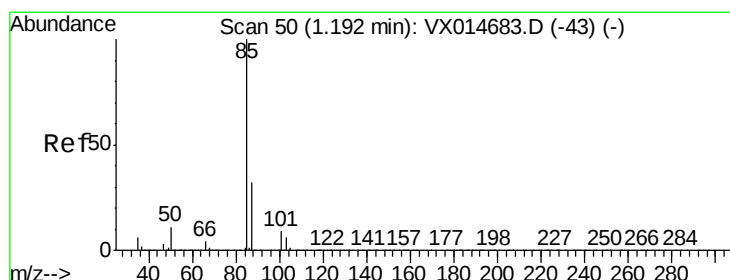
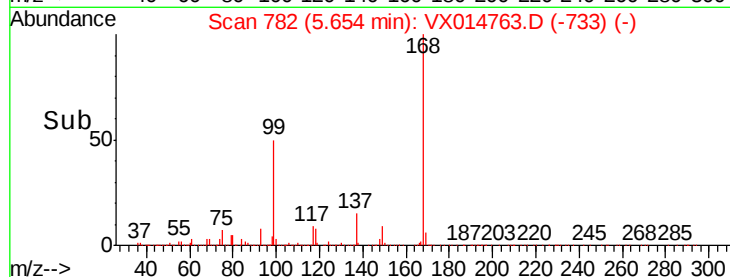
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.607 ug/l

RT: 1.22 min Scan# 54

Delta R.T. 0.03 min

Lab File: VX014763.D

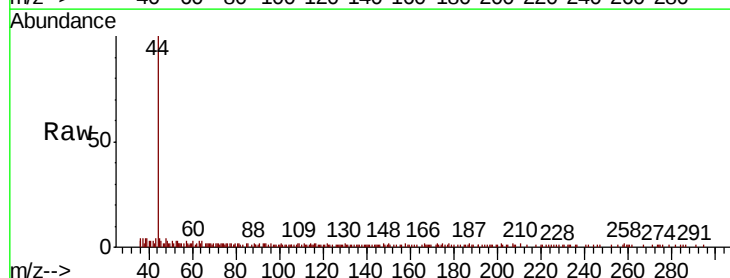
Acq: 29 Jan 2020 12:27

Tgt Ion: 85 Resp: 465

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

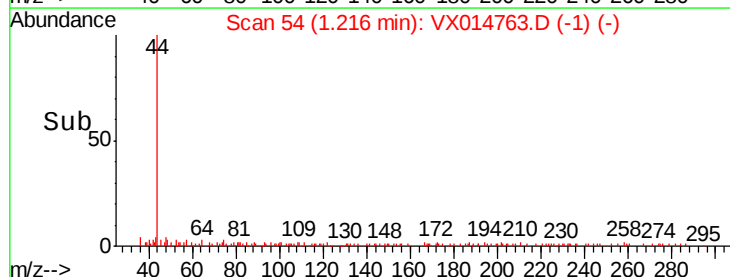
300

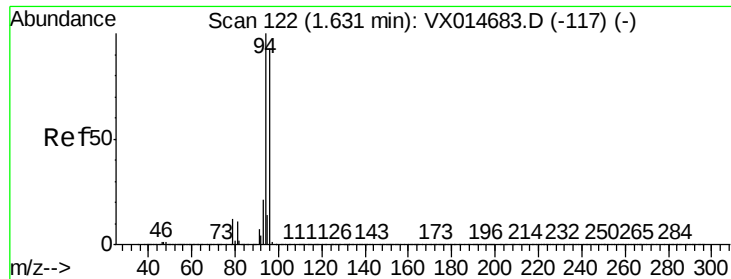
200

100

0

Time-->





#5

Bromomethane

Concen: 0.310 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_X

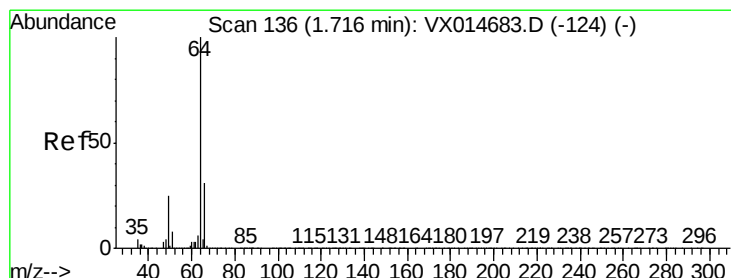
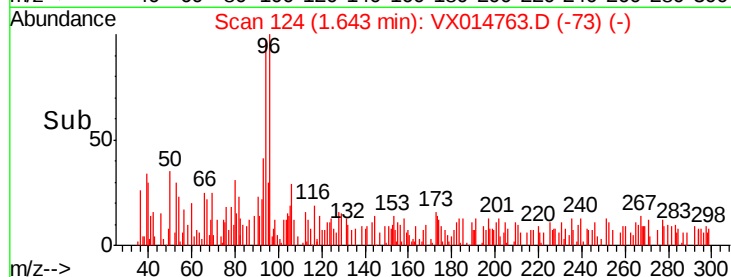
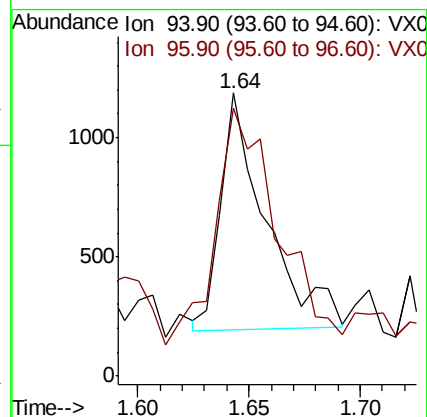
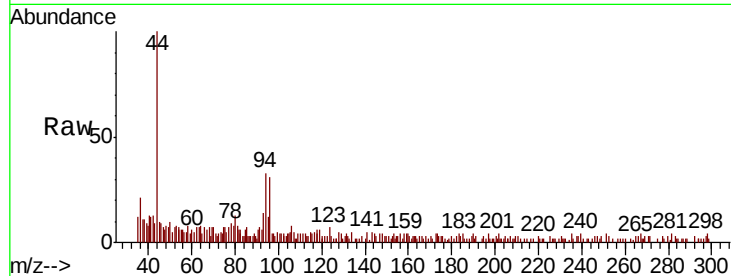
ClientSampled :

Tot Ion: 94 Resp: 1388

Ion Ratio Lower Upper

94 100

96 97.8 74.7 112.1



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 131

Delta R.T. -0.03 min

Lab File: VX014763.D

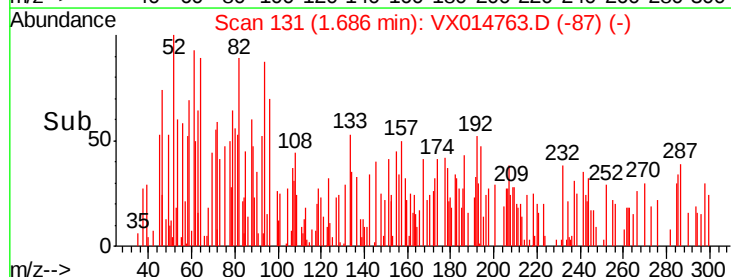
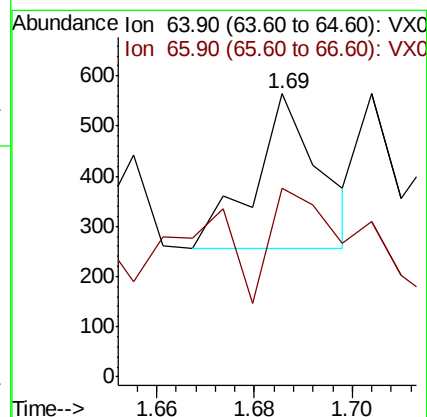
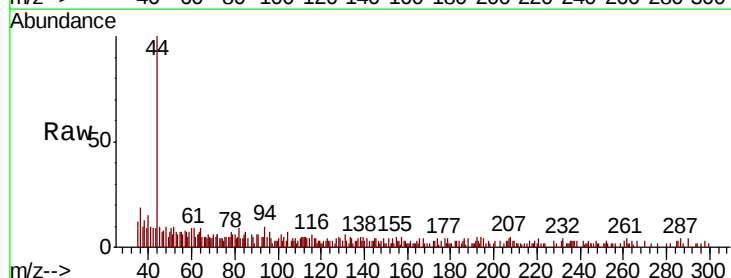
Acq: 29 Jan 2020 12:27

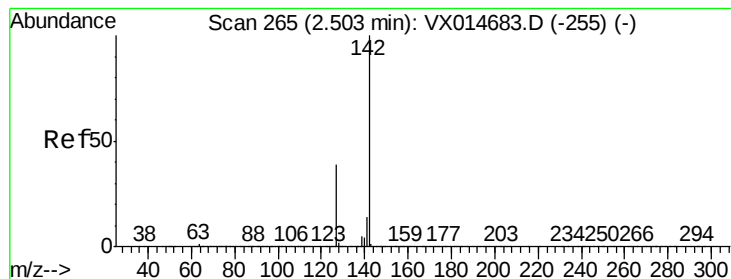
Tgt Ion: 64 Resp: 285

Ion Ratio Lower Upper

64 100

66 35.4 25.2 37.8





#10

Methvl Iodide

Concen: 0.464 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

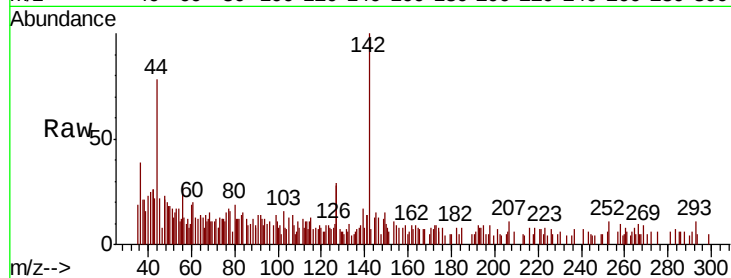
Tot Ion:142 Resp: 2747

Ion Ratio Lower Upper

142 100

127 55.5 31.1 46.7#

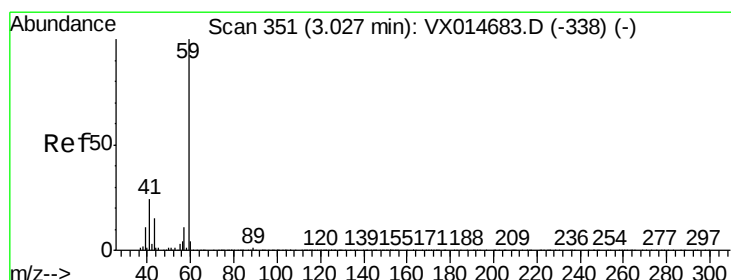
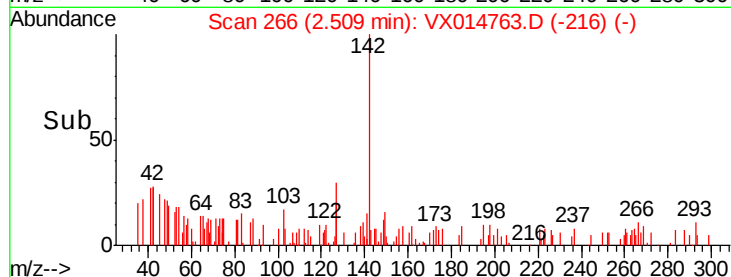
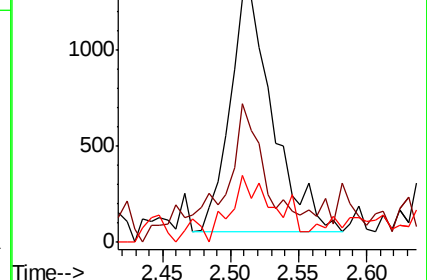
141 29.3 11.3 16.9#



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



#11

Tert butyl alcohol

Concen: 0.541 ug/l

RT: 3.04 min Scan# 353

Delta R.T. 0.01 min

Lab File: VX014763.D

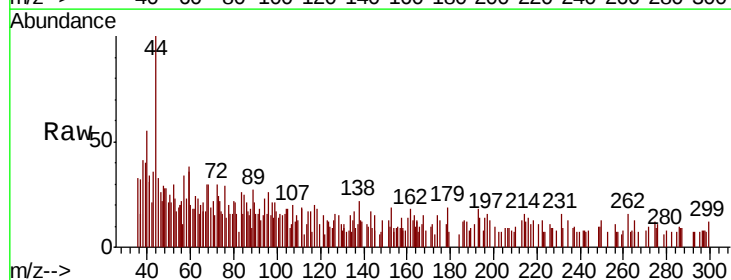
Acq: 29 Jan 2020 12:27

Tgt Ion: 59 Resp: 640

Ion Ratio Lower Upper

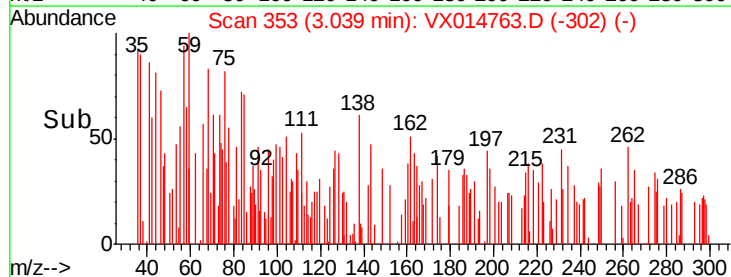
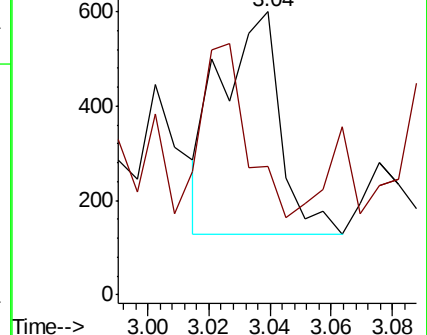
59 100

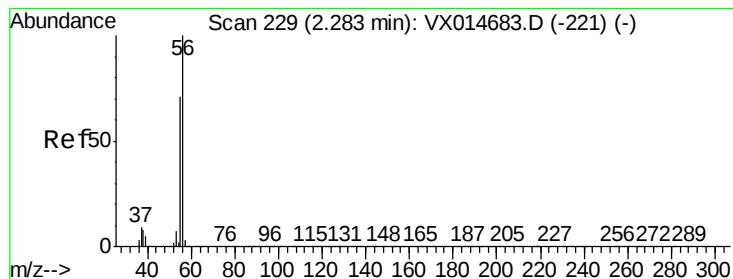
57 67.8 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.489 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_X

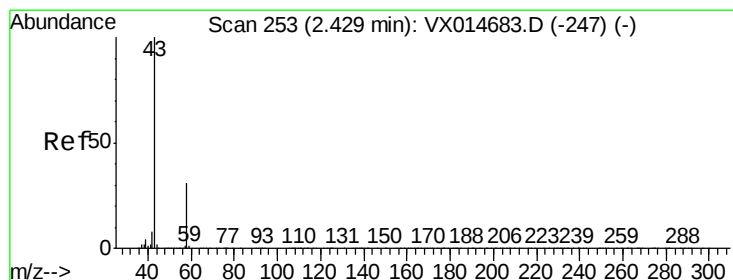
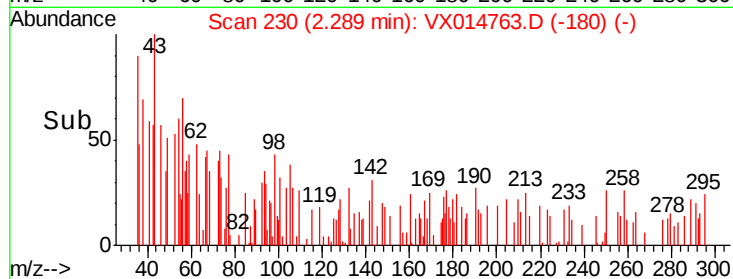
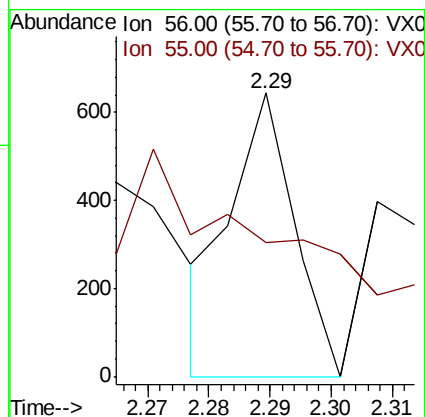
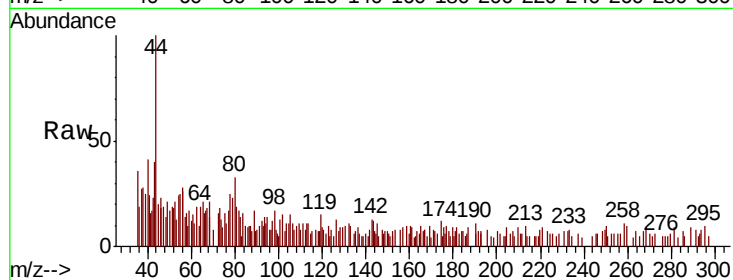
ClientSampleId :

Tot Ion: 56 Resp: 456

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



#16

Acetone

Concen: 1.136 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX014763.D

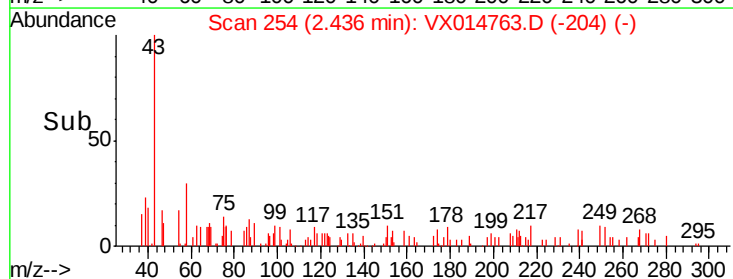
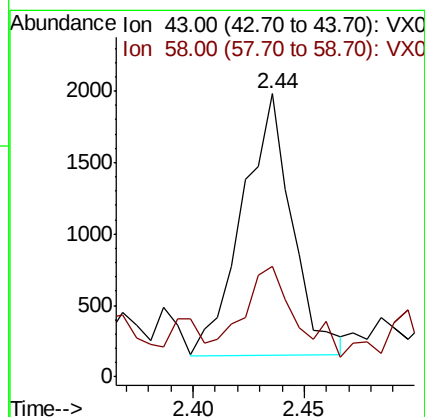
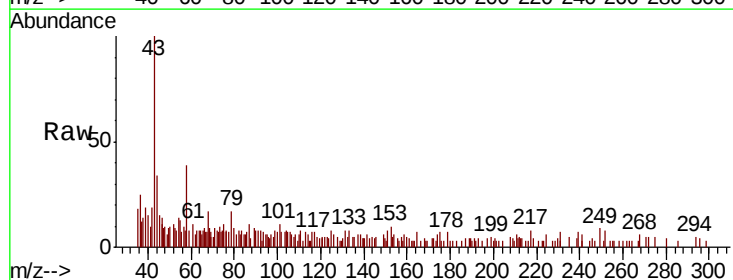
Acq: 29 Jan 2020 12:27

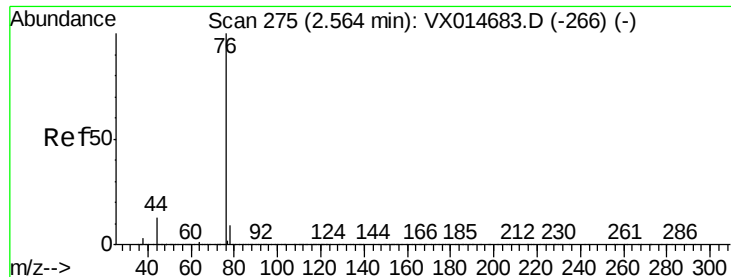
Tgt Ion: 43 Resp: 2846

Ion Ratio Lower Upper

43 100

58 24.3 24.5 36.7#





#17

Carbon Disulfide

Concen: 0.261 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_X

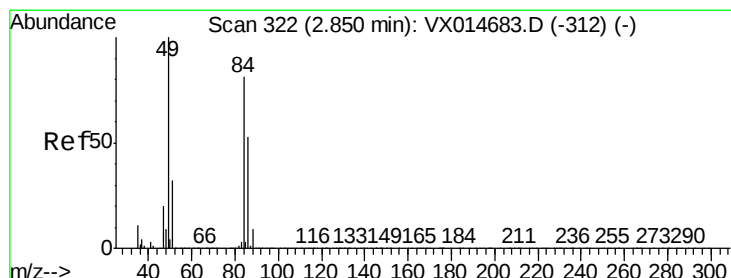
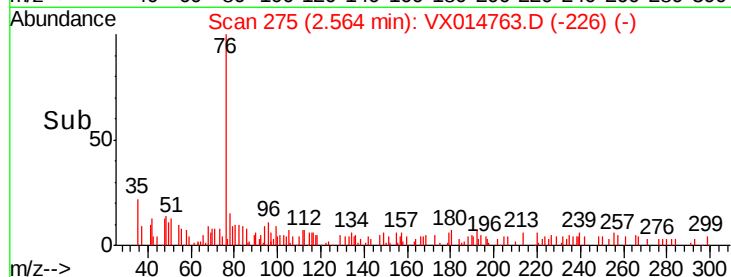
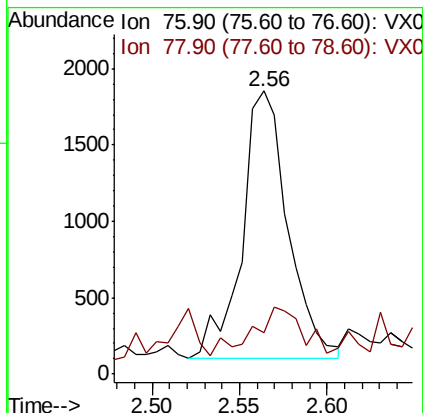
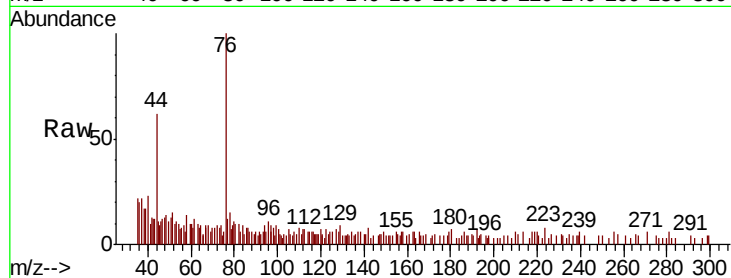
ClientSampleId :

Tot Ion: 76 Resp: 3193

Ion Ratio Lower Upper

76 100

78 13.8 7.2 10.8#



#20

Methylene Chloride

Concen: 0.458 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Tgt Ion: 84 Resp: 2445

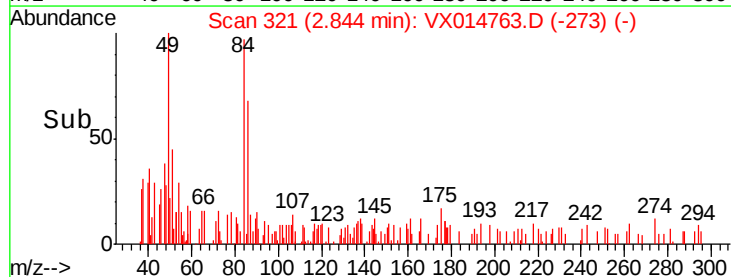
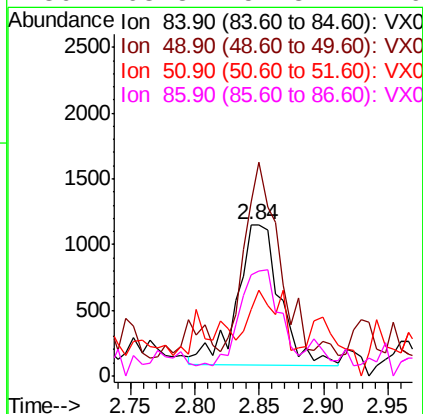
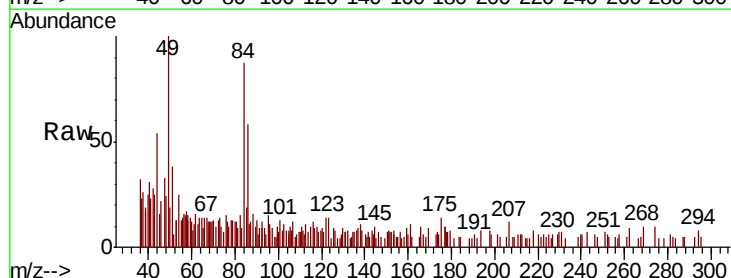
Ion Ratio Lower Upper

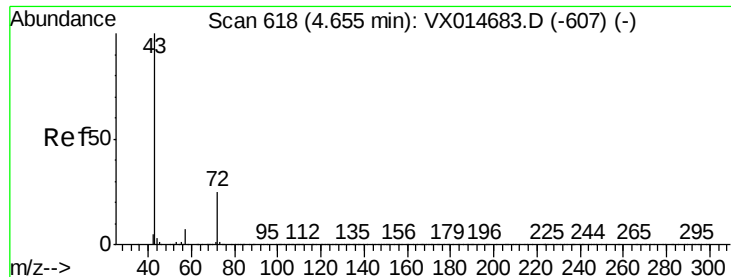
84 100

49 111.4 98.2 147.4

51 31.8 31.3 46.9

86 63.8 51.8 77.6

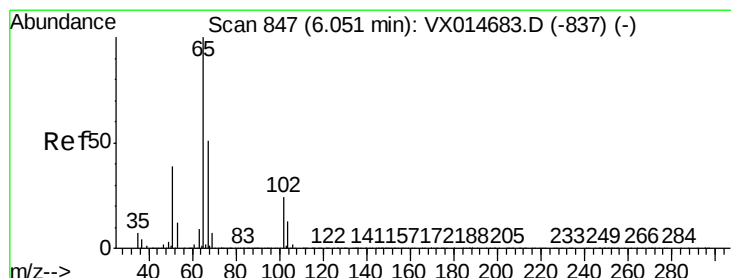
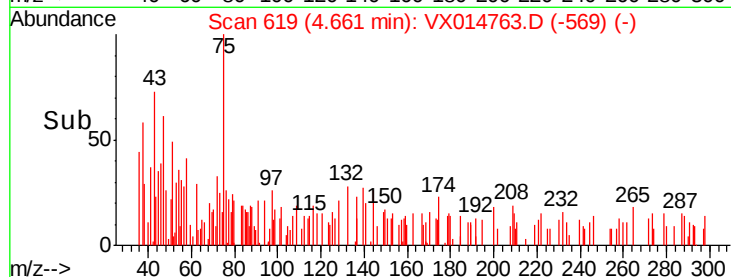
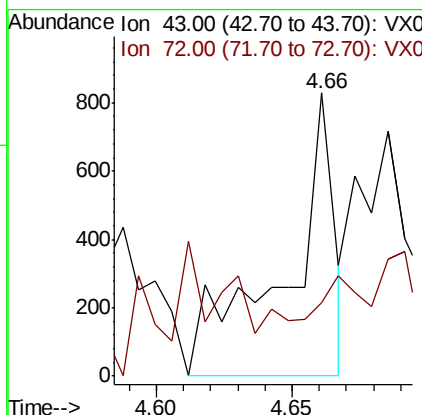
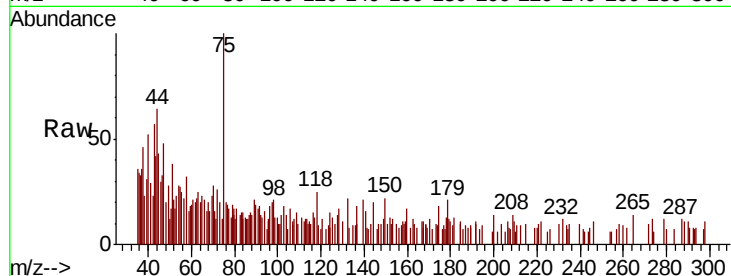




#25
2-Butanone
Concen: 0.250 ug/l
RT: 4.66 min Scan# 619
Delta R.T. 0.01 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

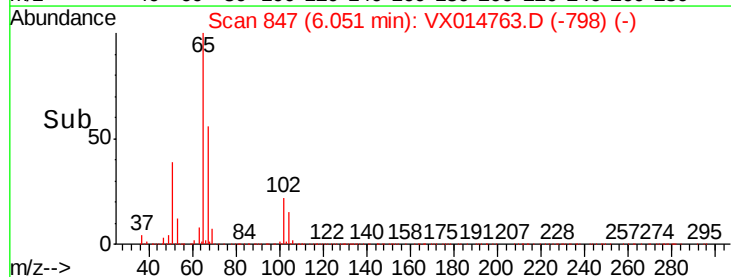
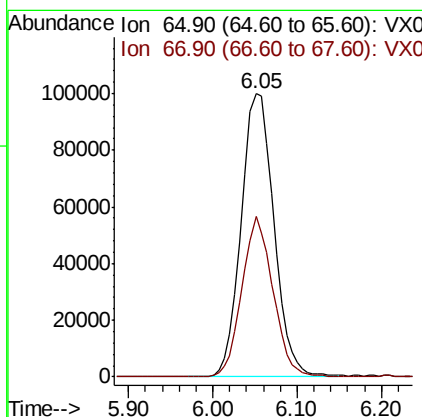
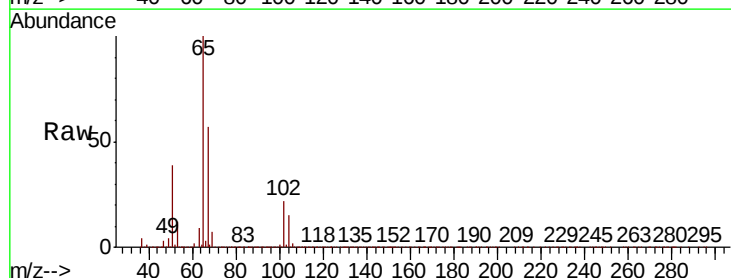
Instrument :
MSVOA_X
ClientSampled :

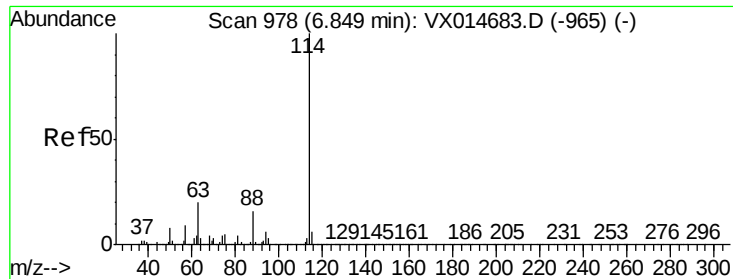
Tot Ion: 43 Resp: 1035
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#33
1,2-Dichloroethane-d4
Concen: 49.787 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

Tgt Ion: 65 Resp: 262156
Ion Ratio Lower Upper
65 100
67 53.4 0.0 107.4

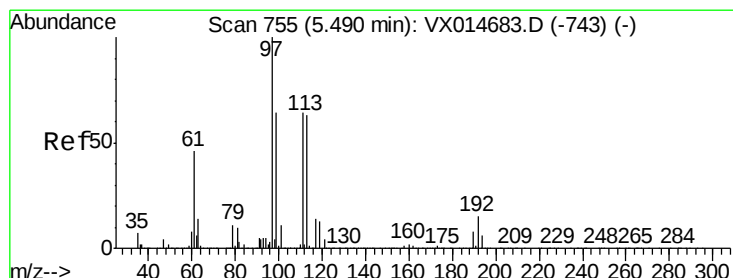
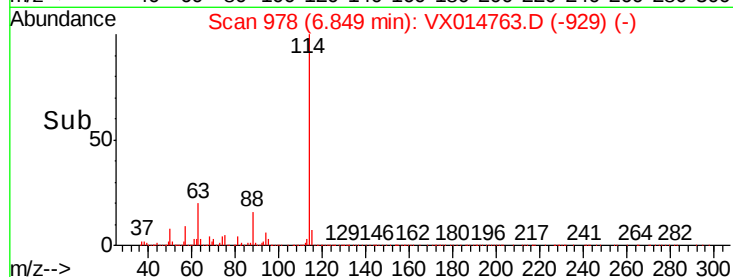
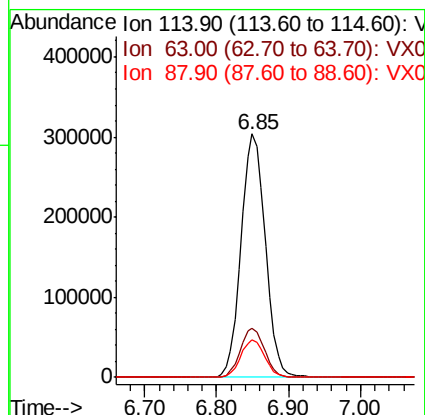
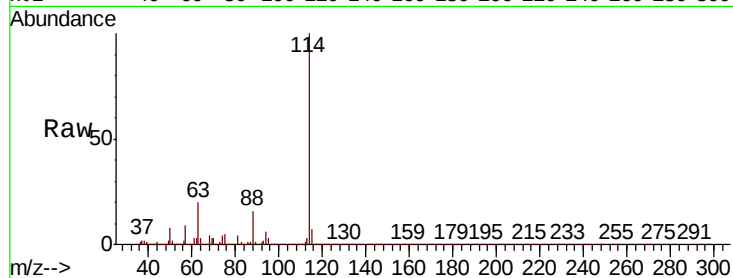




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

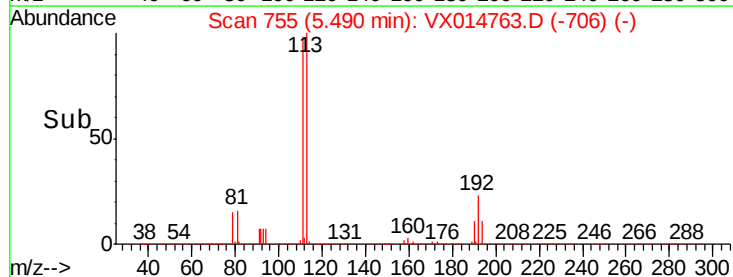
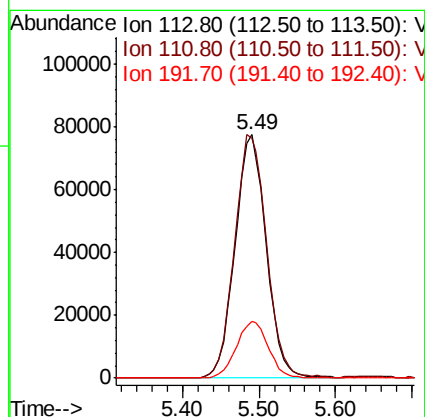
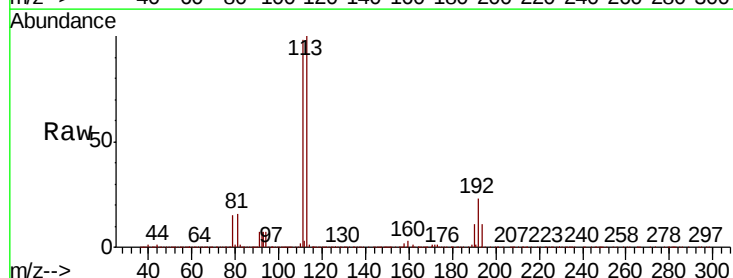
Instrument :
MSVOA_X
ClientSampleId :

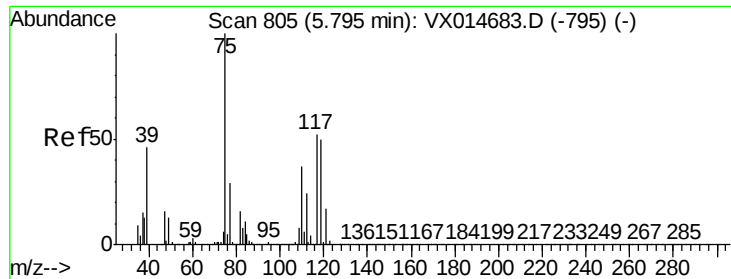
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.6
88	15.6	0.0	31.2



#35
Dibromofluoromethane
Concen: 48.501 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.7	121.1
192	24.0	18.5	27.7





#36

1,1-Dichloropropene

Concen: 4.946 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

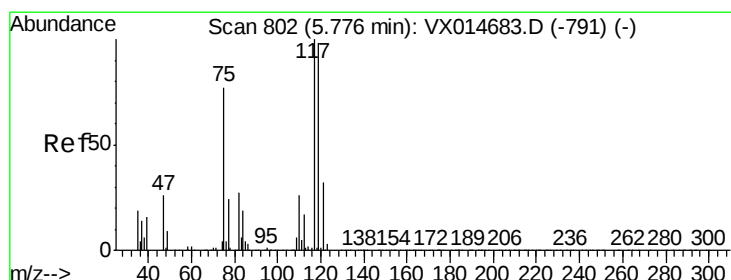
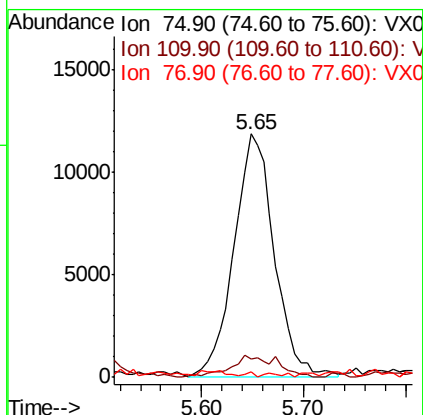
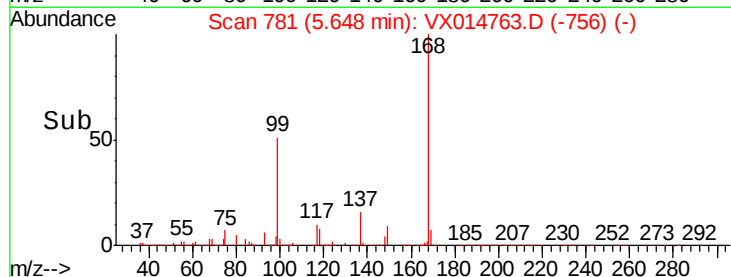
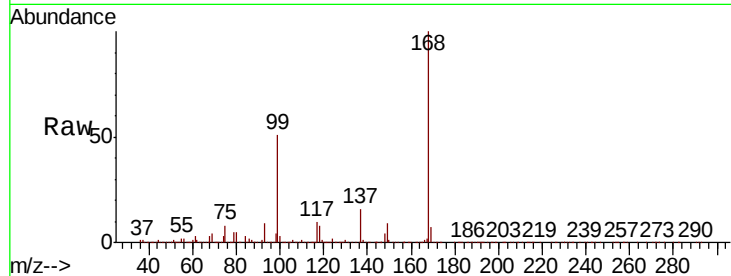
Tot Ion: 75 Resp: 32692

Ion Ratio Lower Upper

75 100

110 10.3 17.9 53.7#

77 0.5 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 6.507 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

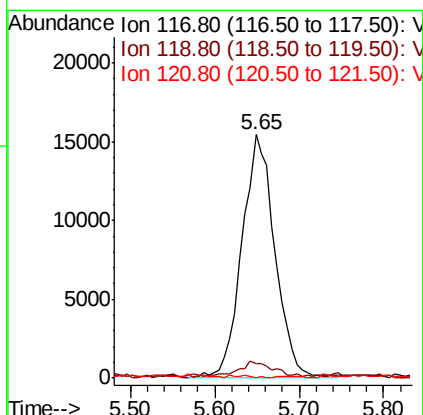
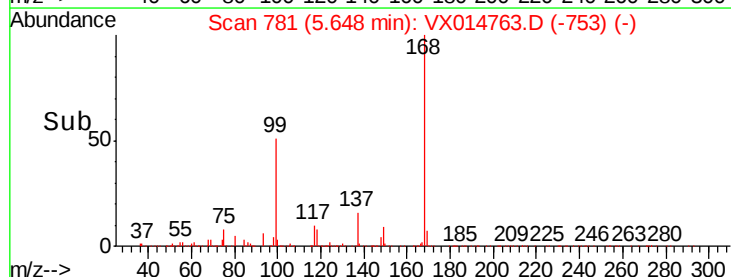
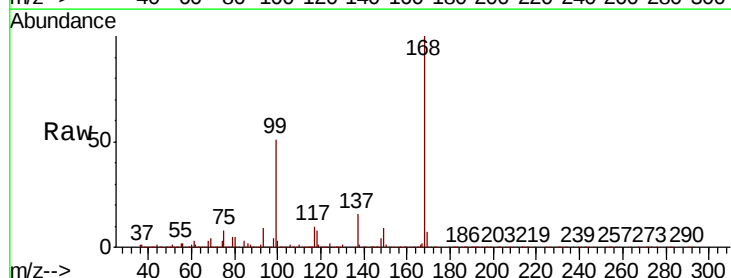
Tgt Ion: 117 Resp: 41077

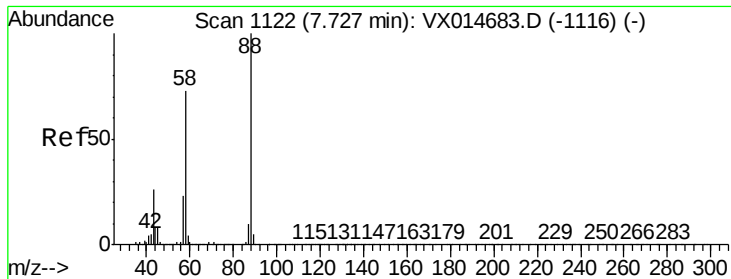
Ion Ratio Lower Upper

117 100

119 4.8 77.9 116.9#

121 0.0 25.4 38.2#

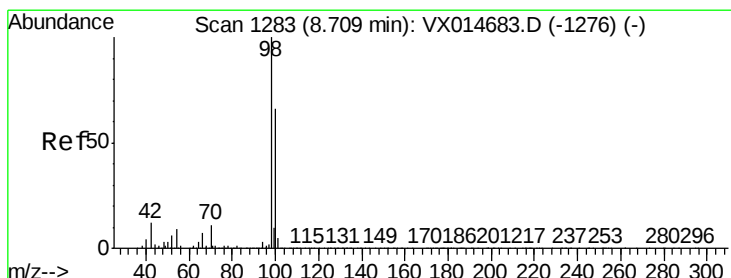
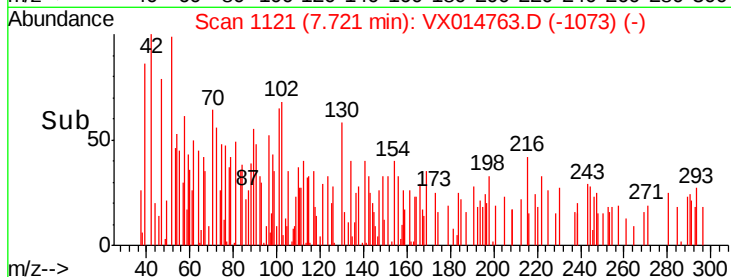
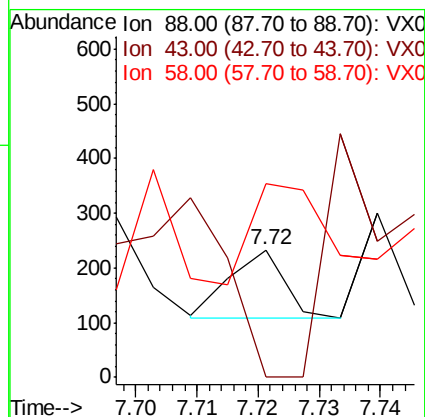
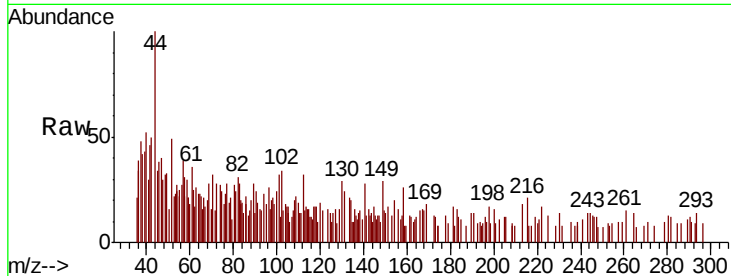




#49
1,4-Dioxane
Concen: 0.605 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

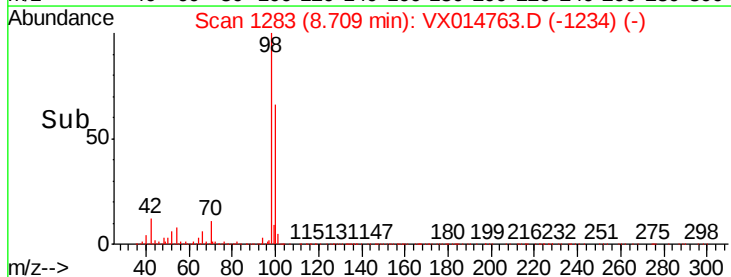
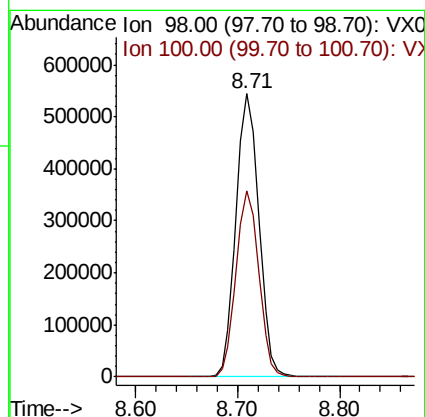
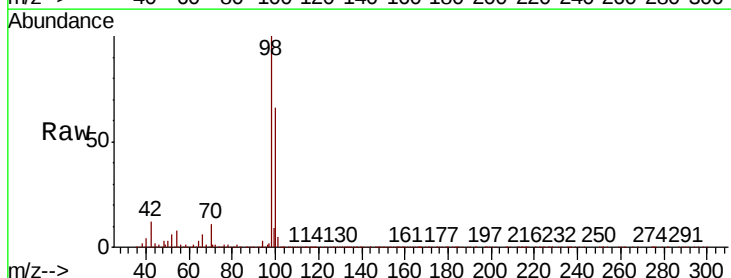
Instrument :
MSVOA_X
ClientSampleId :

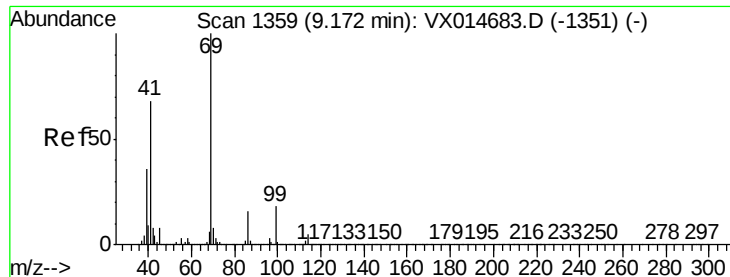
Tot Ion: 88 Resp: 76
Ion Ratio Lower Upper
88 100
43 0.0 26.2 39.2#
58 222.4 56.6 85.0#



#50
Toluene-d8
Concen: 49.010 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

Tgt Ion: 98 Resp: 845770
Ion Ratio Lower Upper
98 100
100 65.2 53.0 79.6





#56

Ethyl methacrylate

Concen: 1.824 ug/l

RT: 9.17 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Instrument :
MSVOA_X
ClientSampled :

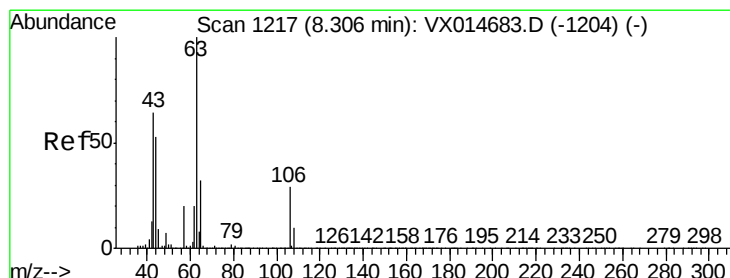
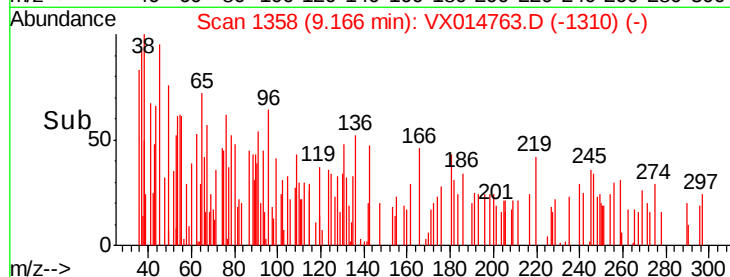
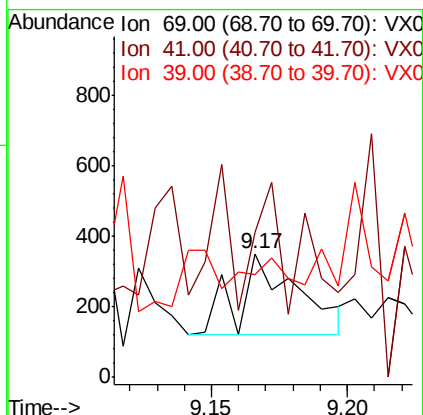
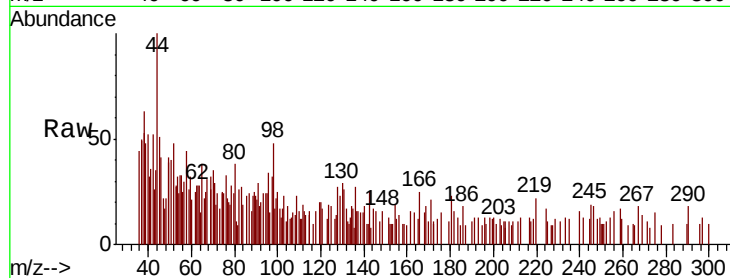
Tot Ion: 69 Resp: 355

Ion Ratio Lower Upper

69 100

41 42.8 54.9 82.3#

39 0.0 29.3 43.9#



#58

2-Chloroethyl Vinyl ether

Concen: 0.315 ug/l

RT: 8.24 min Scan# 1206

Delta R.T. -0.07 min

Lab File: VX014763.D

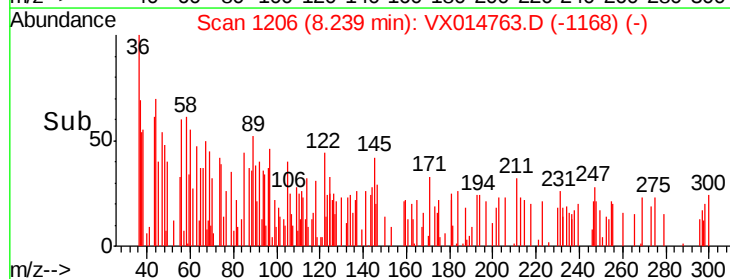
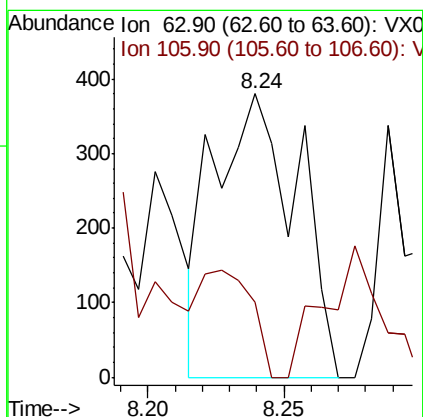
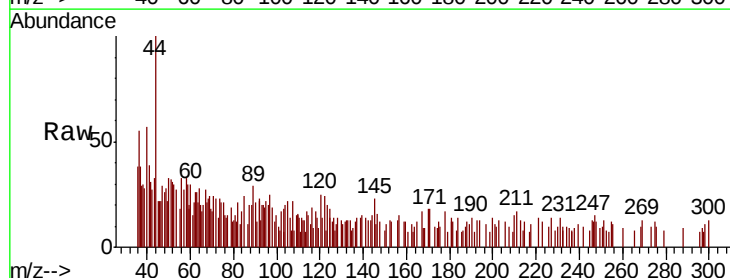
Acq: 29 Jan 2020 12:27

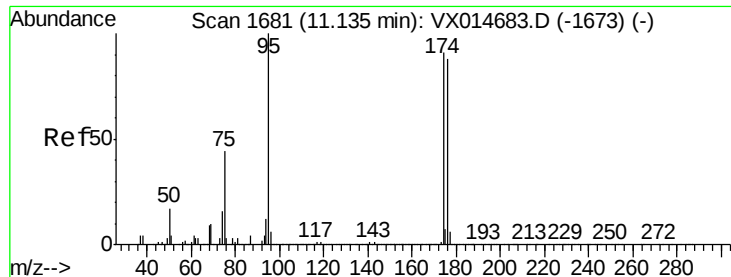
Tgt Ion: 63 Resp: 814

Ion Ratio Lower Upper

63 100

106 23.0 22.7 34.1





#62

4-Bromofluorobenzene

Concen: 45.701 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

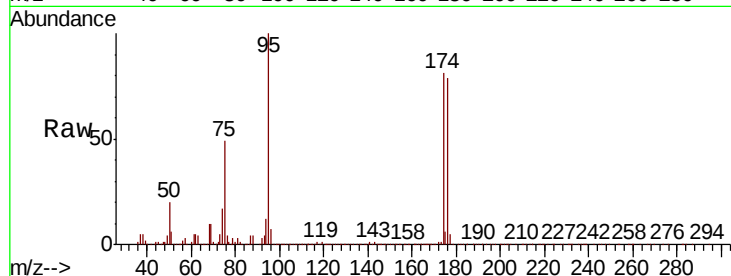
Tot Ion: 95 Resp: 280941

Ion Ratio Lower Upper

95 100

174 89.8 0.0 176.0

176 86.0 0.0 172.2



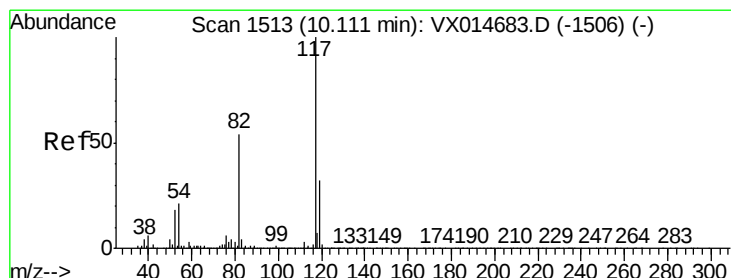
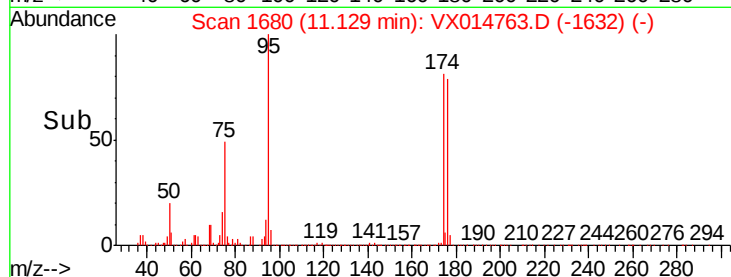
Abundance Ion 94.90 (94.60 to 95.60): VX014763.D (-1673) (-)

Ion 173.80 (173.50 to 174.50): VX014763.D (-1673) (-)

Ion 175.80 (175.50 to 176.50): VX014763.D (-1673) (-)

11.13

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

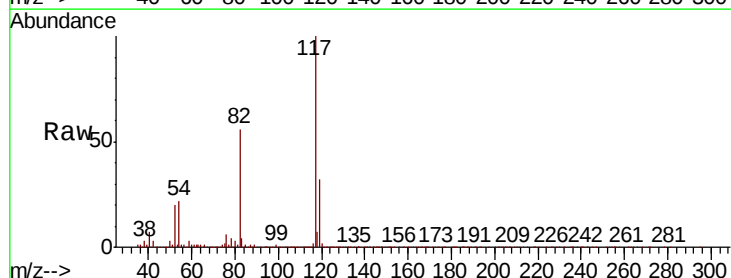
Tgt Ion: 117 Resp: 637145

Ion Ratio Lower Upper

117 100

82 56.1 43.2 64.8

119 31.9 25.8 38.6



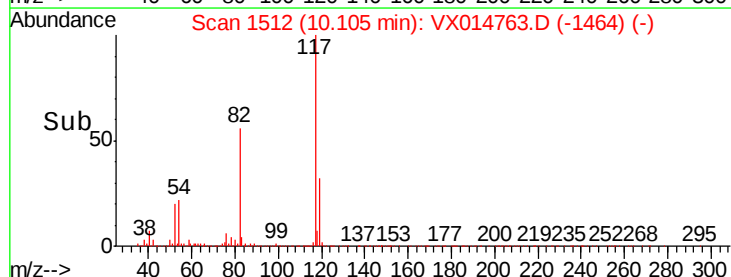
Abundance Ion 116.90 (116.60 to 117.60): VX014763.D (-1464) (-)

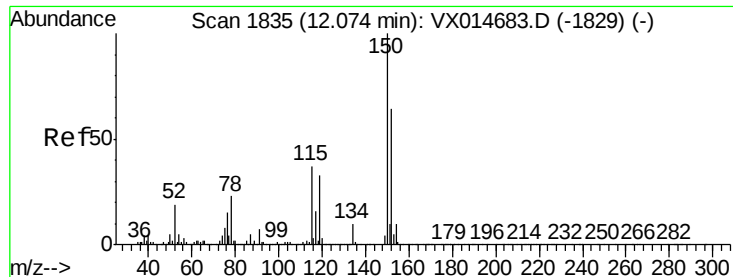
Ion 82.00 (81.70 to 82.70): VX014763.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX014763.D (-1464) (-)

10.10

Time-->



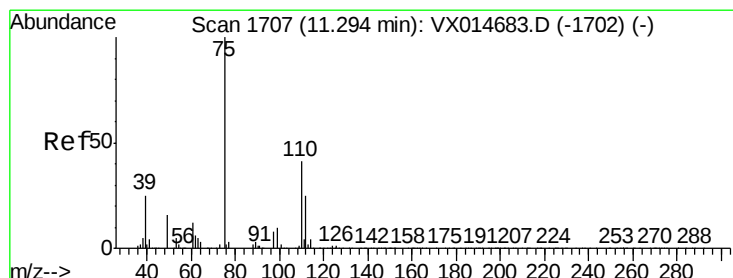
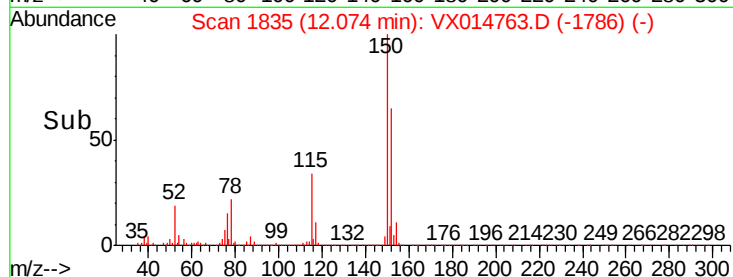
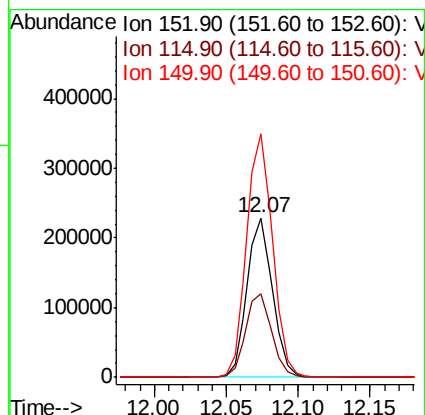
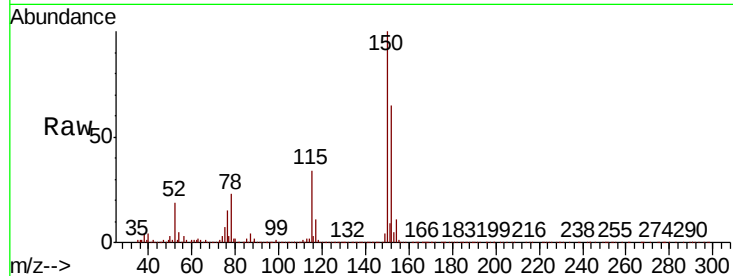


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

Instrument :
MSVOA_X
ClientSampleId :

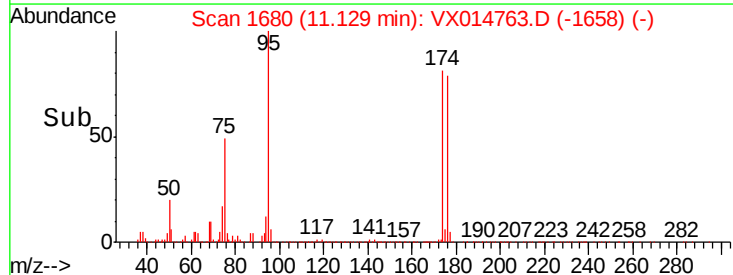
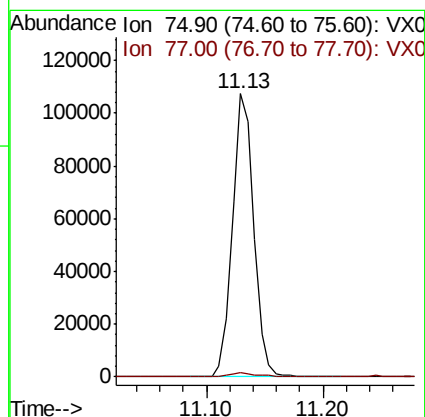
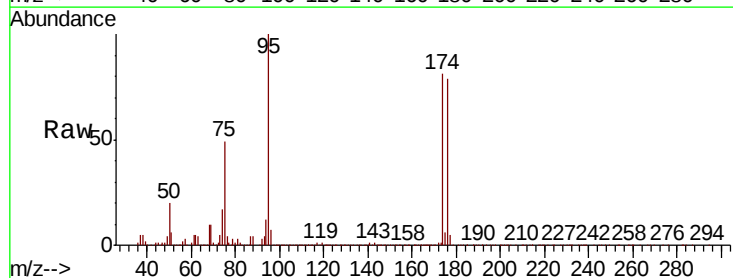
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.1	39.4	118.1
150	155.8	0.0	351.2

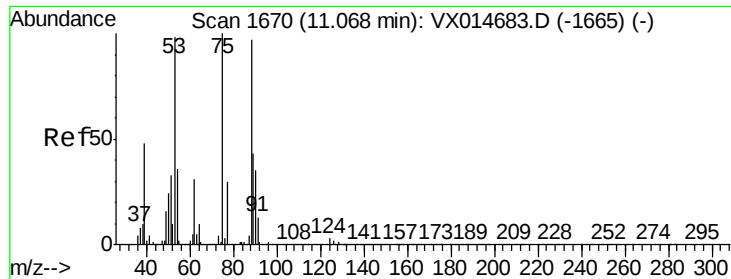


#76

1,2,3-Trichloropropane
Concen: 21.022 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.6	18.7	56.1

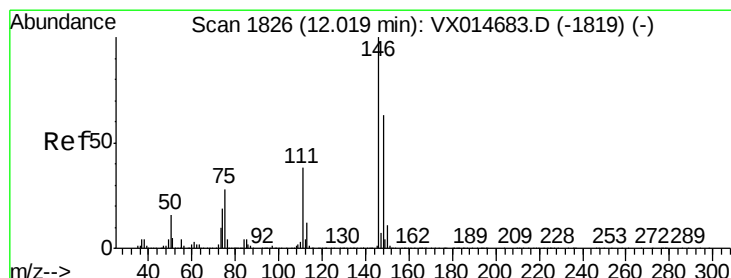
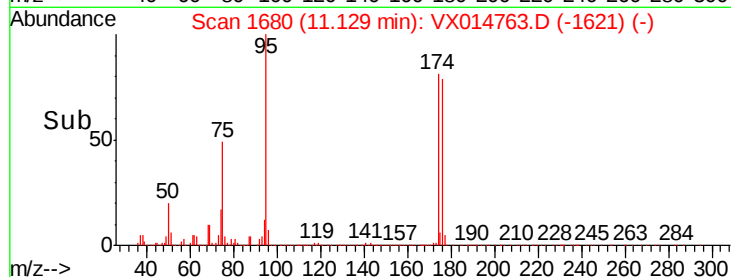
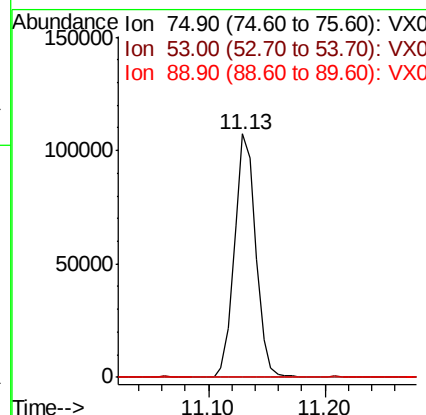
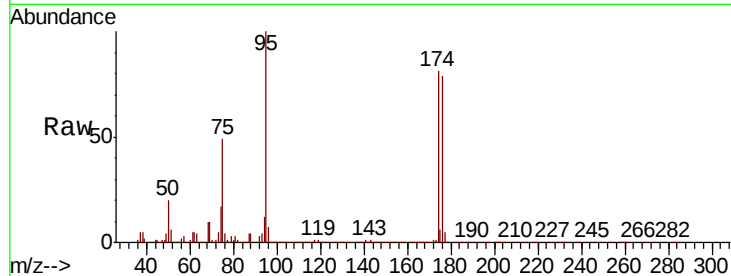




#81
trans-1,4-Dichloro-2-butene
Concen: 59.826 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

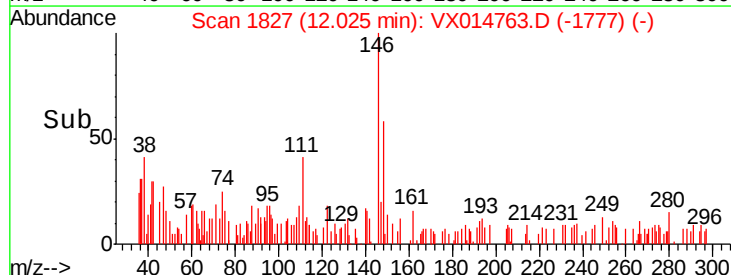
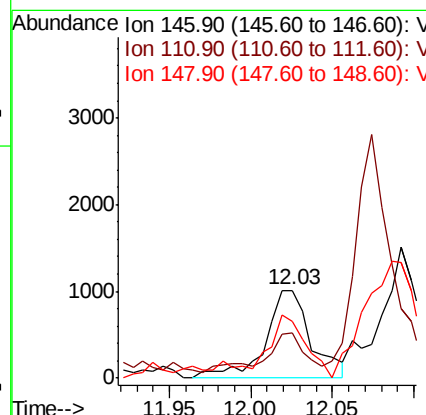
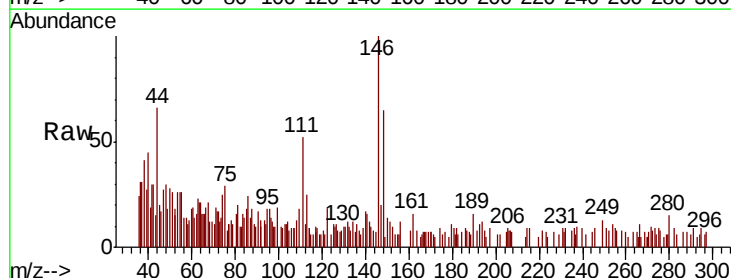
Instrument :
MSVOA_X
ClientSampled :

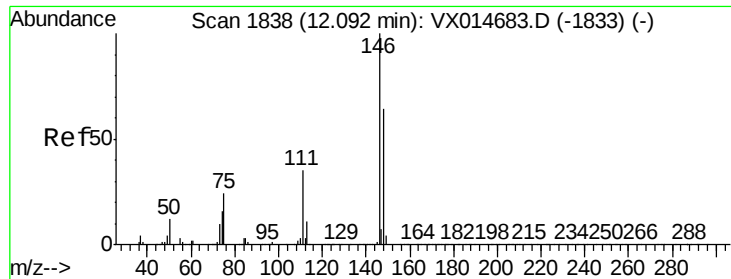
Tot Ion: 75 Resp: 136217
Ion Ratio Lower Upper
75 100
53 0.2 78.8 118.2#
89 0.0 35.4 53.0#



#87
1,3-Dichlorobenzene
Concen: 0.208 ug/l
RT: 12.03 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VX014763.D
Acq: 29 Jan 2020 12:27

Tgt Ion: 146 Resp: 1966
Ion Ratio Lower Upper
146 100
111 46.2 19.0 57.0
148 55.4 31.6 95.0

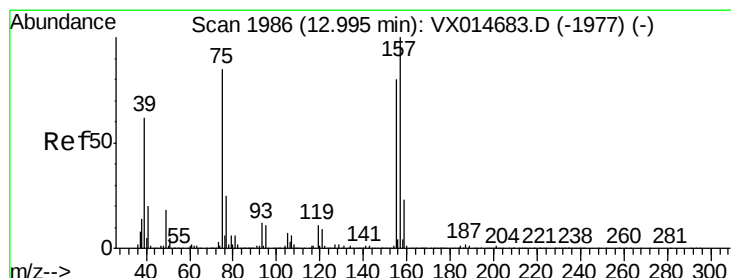
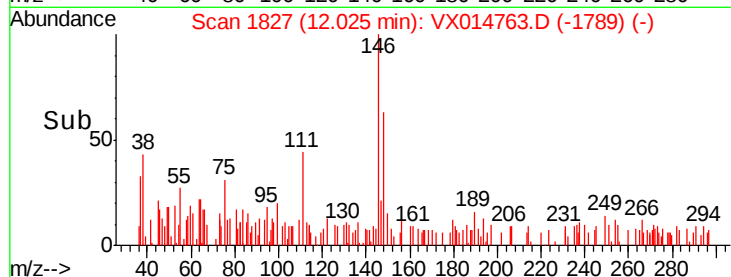
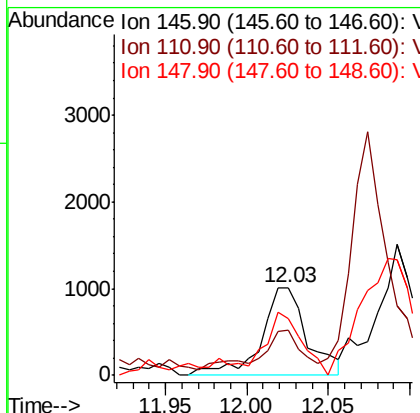
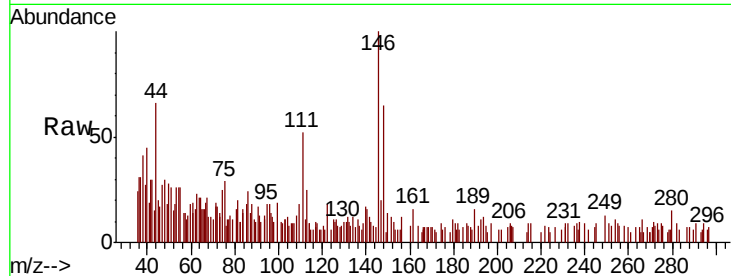




#88
 1,4-Dichlorobenzene
 Concen: 0.208 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. -0.07 min
 Lab File: VX014763.D
 Acq: 29 Jan 2020 12:27

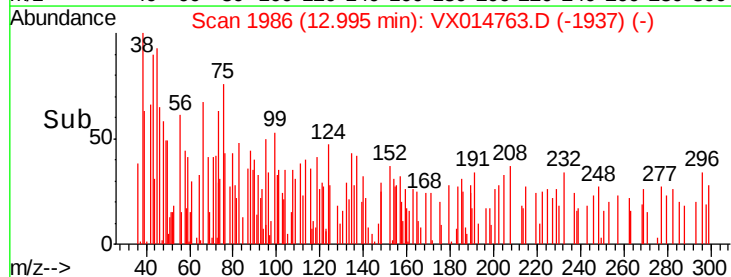
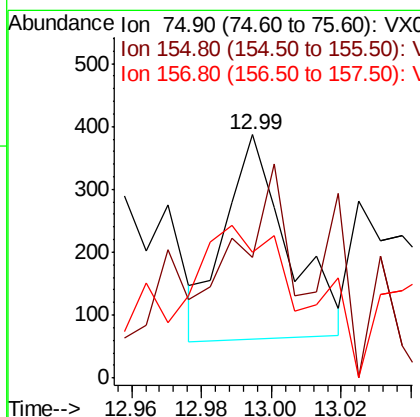
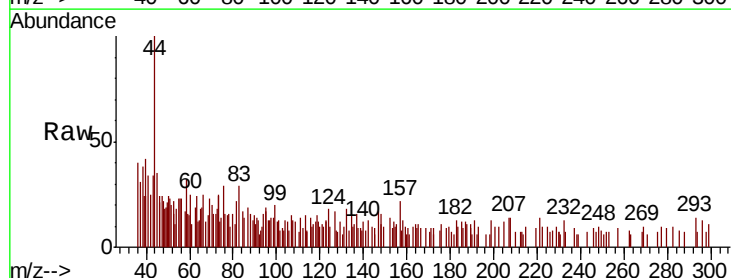
Instrument :
 MSVOA_X
 ClientSampleId :

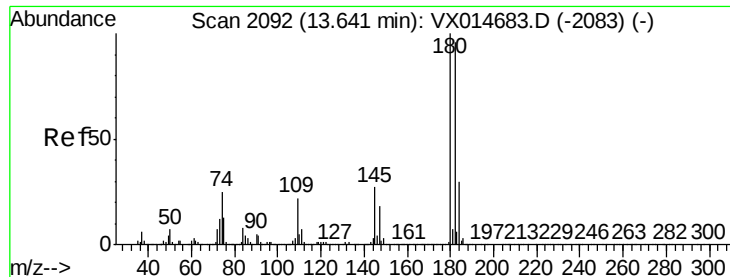
Tot Ion:146 Resp: 1966
 Ion Ratio Lower Upper
 146 100
 111 46.2 18.6 55.8
 148 55.4 32.0 96.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.270 ug/l
 RT: 12.99 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VX014763.D
 Acq: 29 Jan 2020 12:27

Tgt Ion: 75 Resp: 406
 Ion Ratio Lower Upper
 75 100
 155 90.1 45.6 136.9
 157 180.0 60.3 180.9

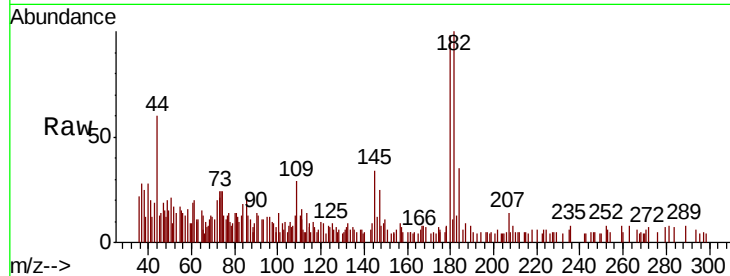




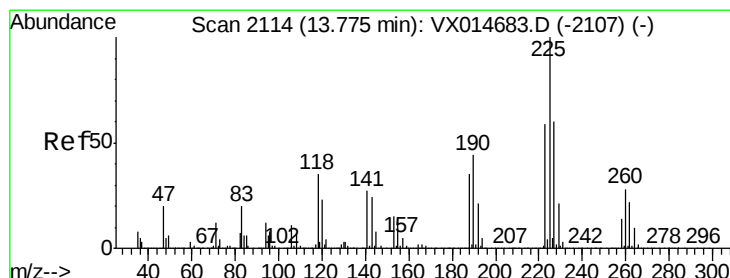
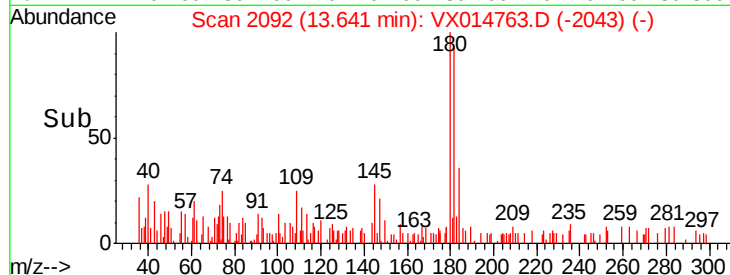
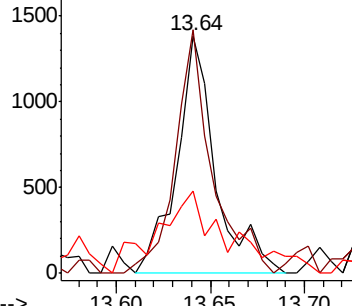
#93
 1,2,4-Trichlorobenzene
 Concen: 0.328 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX014763.D
 Acq: 29 Jan 2020 12:27

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.5	145.6
145	63.5	14.0	41.9#

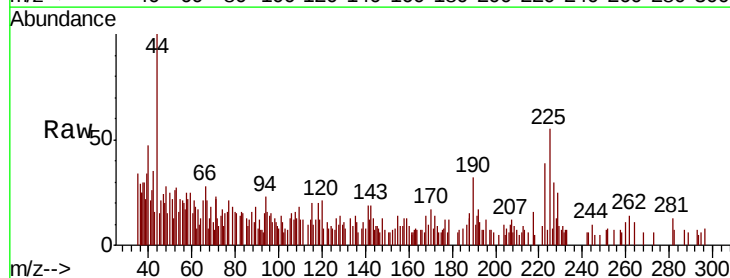


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

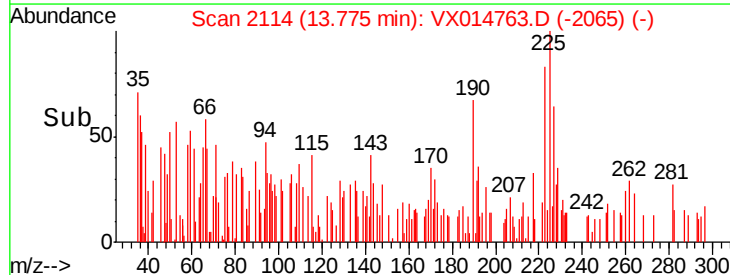
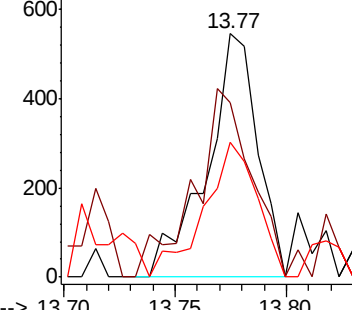


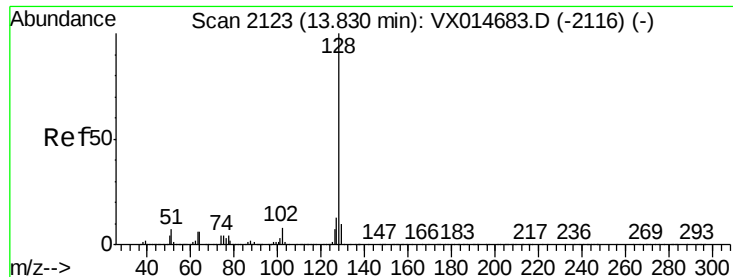
#94
 Hexachlorobutadiene
 Concen: 0.278 ug/l
 RT: 13.77 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VX014763.D
 Acq: 29 Jan 2020 12:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	88.5	30.6	91.8
227	57.5	31.4	94.0



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





#95

Naphthalene

Concen: 1.152 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

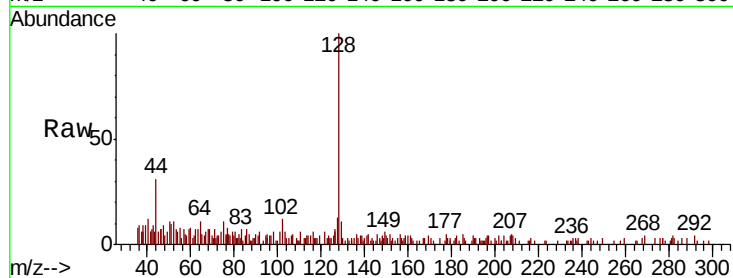
Tot Ion:128 Resp: 4380

Ion Ratio Lower Upper

128 100

127 18.5 10.3 15.5#

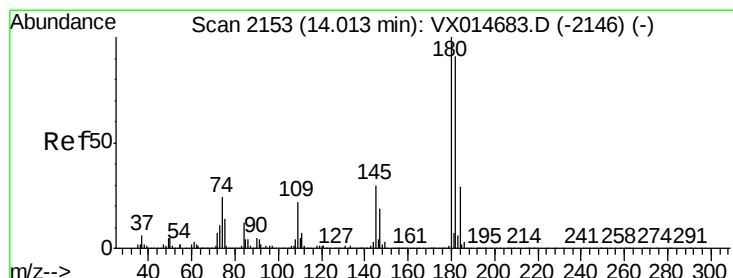
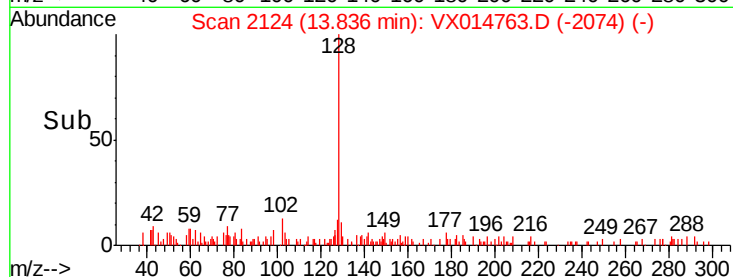
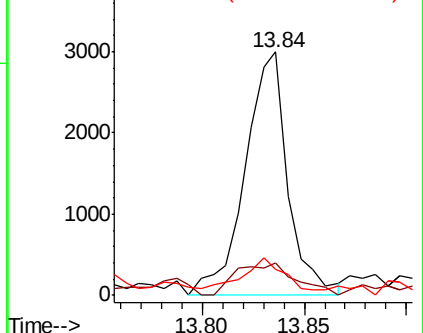
129 16.5 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.306 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014763.D

Acq: 29 Jan 2020 12:27

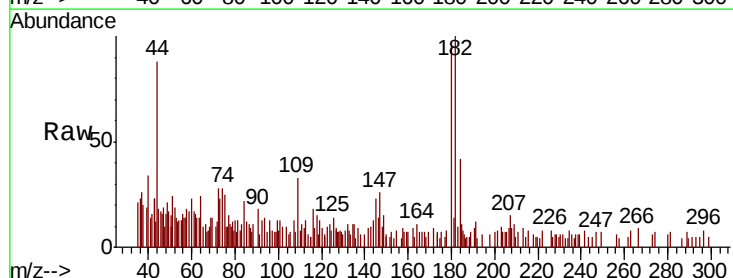
Tgt Ion:180 Resp: 1874

Ion Ratio Lower Upper

180 100

182 106.1 46.6 139.7

145 49.3 14.7 44.1#



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

