

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011720\
 Data File : VX014652.D
 Acq On : 17 Jan 2020 14:11
 Operator : JC/SP
 Sample : L1178-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 18 05:07:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	428753	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	659691	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	593368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	259028	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	247031	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
35) Dibromofluoromethane	5.49	113	201621	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
50) Toluene-d8	8.71	98	788486	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	11.13	95	258003	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	

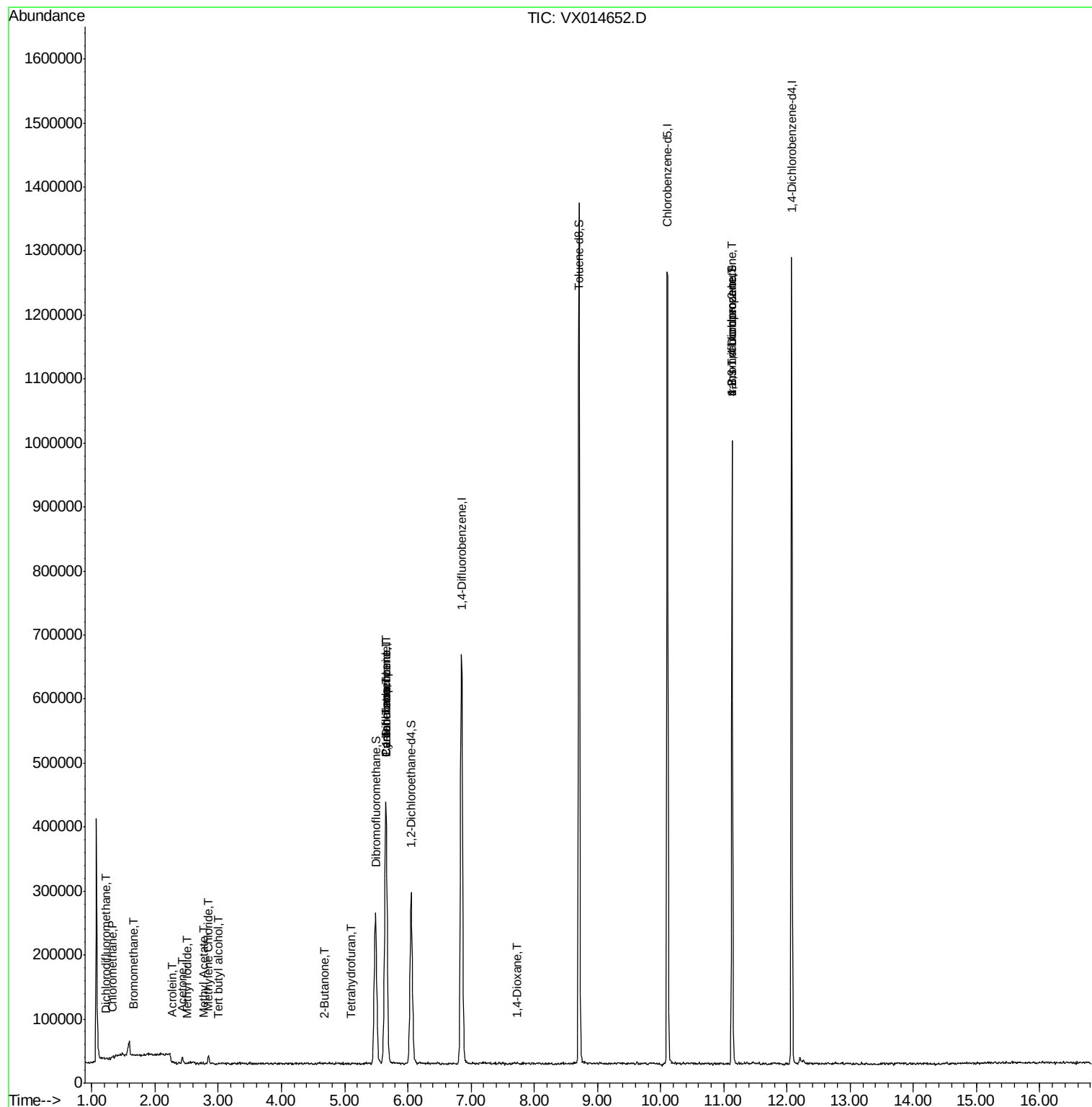
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	539	0.353	ug/l #	39
3) Chloromethane	1.32	50	2332	0.427	ug/l #	70
5) Bromomethane	1.66	94	1775	0.440	ug/l #	52
6) Chloroethane	1.69	64	207	Below Cal	#	84
10) Methyl Iodide	2.51	142	1255	0.249	ug/l #	91
11) Tert butyl alcohol	3.00	59	465	0.465	ug/l #	72
13) Acrolein	2.27	56	592	0.739	ug/l #	15
16) Acetone	2.43	43	13275	1.376	ug/l	99
18) Methyl Acetate	2.77	43	1587	0.231	ug/l	100
20) Methylene Chloride	2.85	84	6732	1.398	ug/l #	87
25) 2-Butanone	4.67	43	796	0.223	ug/l #	70
29) Tetrahydrofuran	5.11	42	557	0.264	ug/l #	32
31) Cyclohexane	5.65	56	8471	1.158	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	30002	4.836	ug/l #	50
38) Carbon Tetrachloride	5.65	117	37248	6.525	ug/l #	18
49) 1,4-Dioxane	7.73	88	156	1.412	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	126311	23.568	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	126311	62.310	ug/l #	12
88) 1,4-Dichlorobenzene	12.07	146	492	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.64	180	565	Below Cal	#	75
96) 1,2,3-Trichlorobenzene	14.01	180	409	Below Cal	#	66

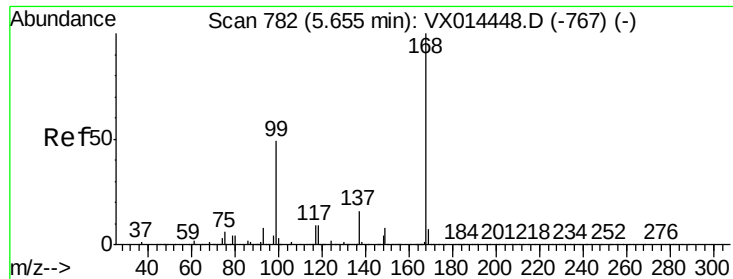
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014652.D

Acq: 17 Jan 2020 14:11

Instrument :

MSVOA_X

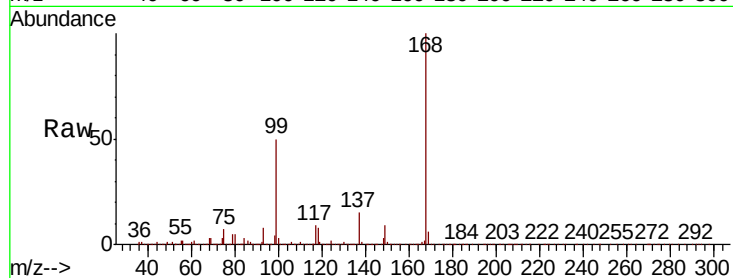
ClientSampleId :

Tot Ion:168 Resp: 428753

Ion Ratio Lower Upper

168 100

99 50.3 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

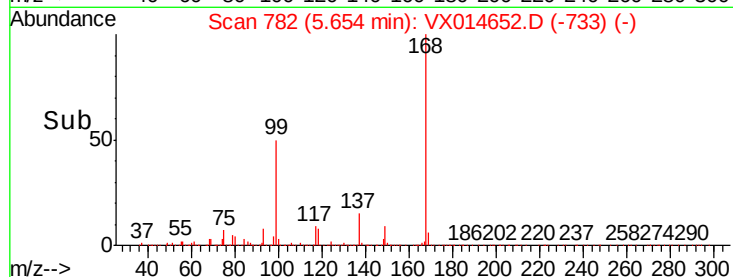
100000

50000

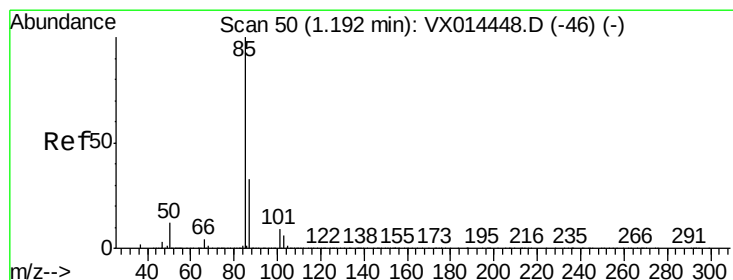
0

5.65

5.50 5.60 5.70 5.80



Time-->



#2

Dichlorodifluoromethane

Concen: 0.353 ug/l

RT: 1.21 min Scan# 53

Delta R.T. 0.02 min

Lab File: VX014652.D

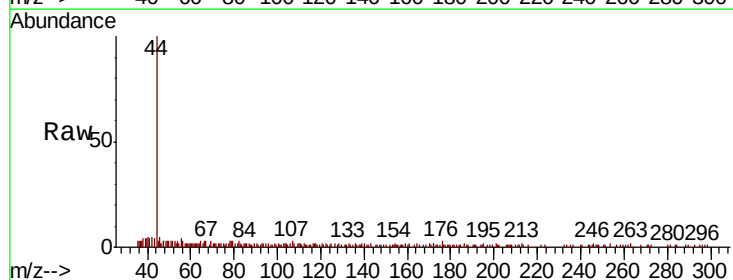
Acq: 17 Jan 2020 14:11

Tgt Ion: 85 Resp: 539

Ion Ratio Lower Upper

85 100

87 67.7 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

300

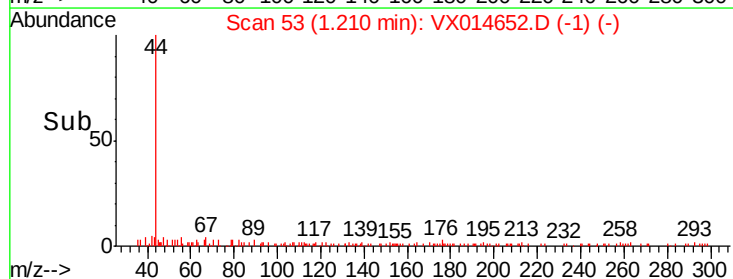
200

100

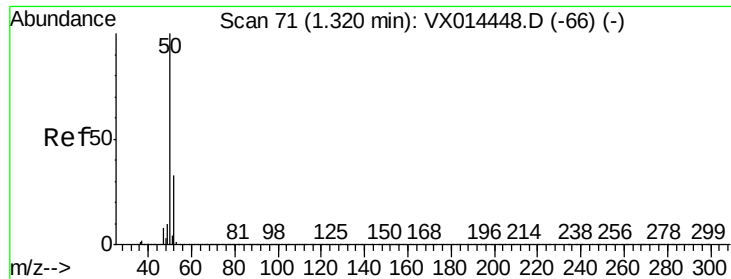
0

1.21

1.16 1.18 1.20 1.22



Time-->



#3

Chloromethane

Concen: 0.427 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

Instrument :

MSVOA_X

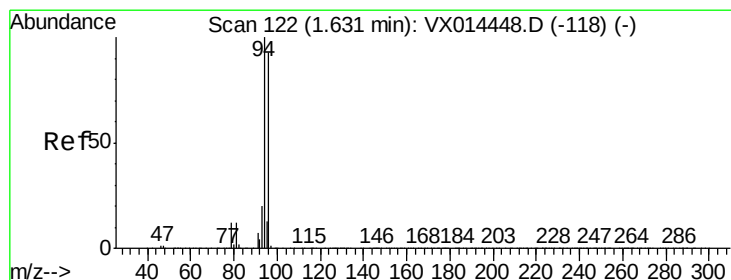
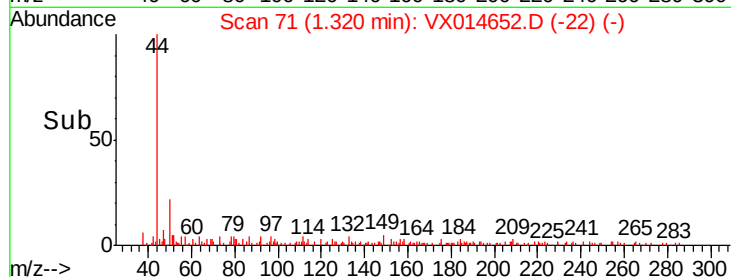
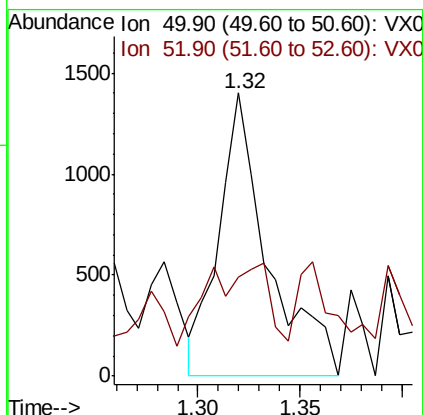
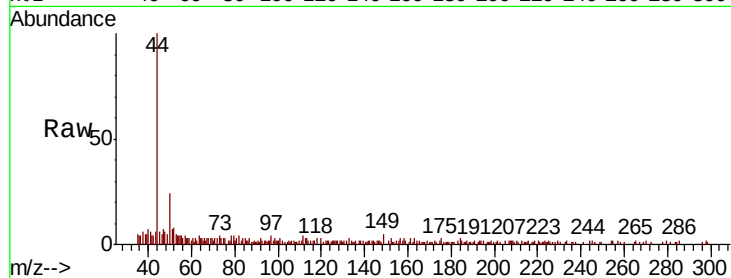
ClientSampleId :

Tot Ion: 50 Resp: 2332

Ion Ratio Lower Upper

50 100

52 16.0 26.1 39.1#



#5

Bromomethane

Concen: 0.440 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX014652.D

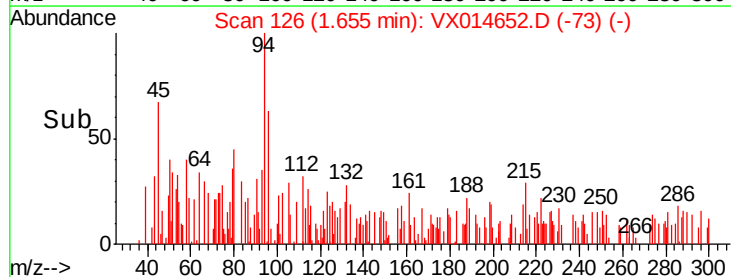
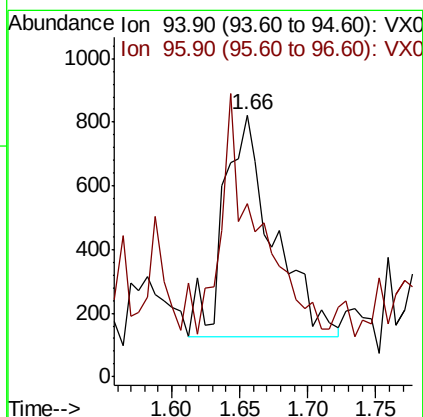
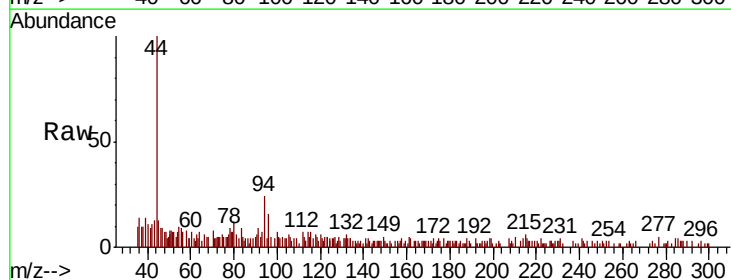
Acq: 17 Jan 2020 14:11

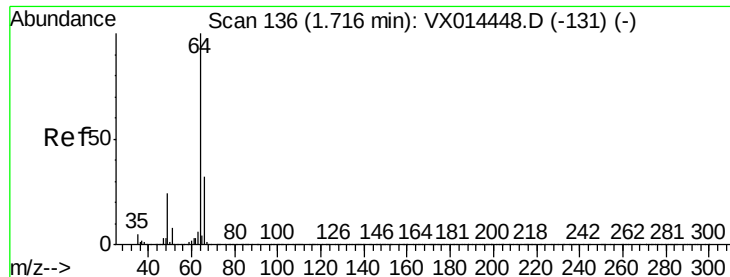
Tgt Ion: 94 Resp: 1775

Ion Ratio Lower Upper

94 100

96 47.0 74.2 111.2#





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 131

Delta R.T. -0.03 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

Instrument :

MSVOA_X

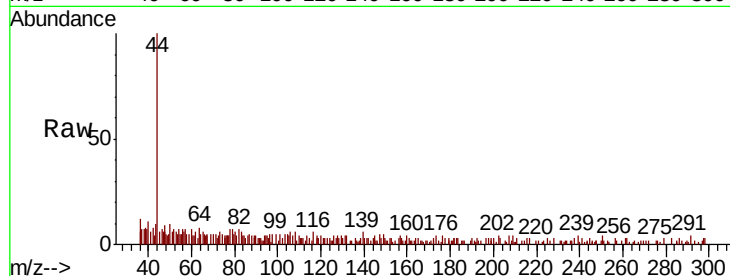
ClientSampleId :

Tot Ion: 64 Resp: 207

Ion Ratio Lower Upper

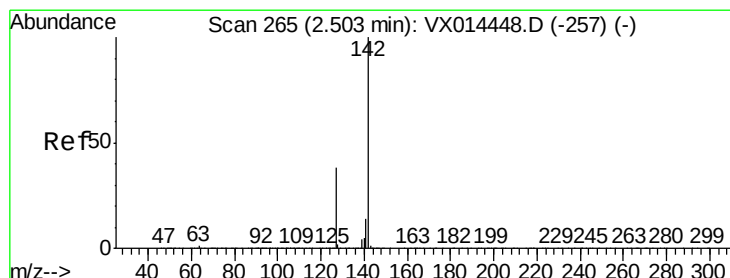
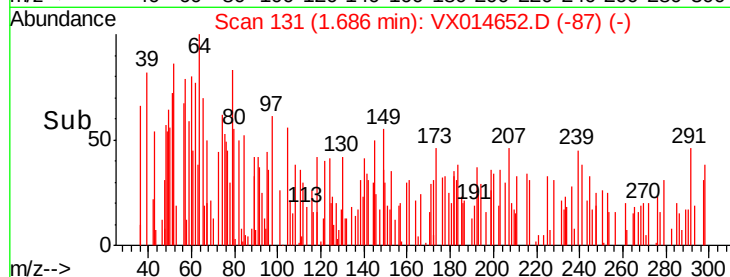
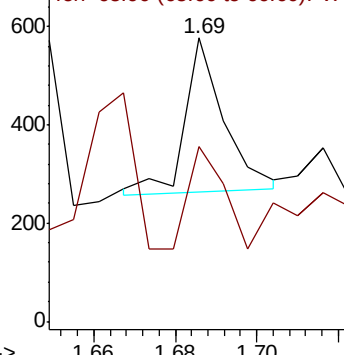
64 100

66 40.3 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.249 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

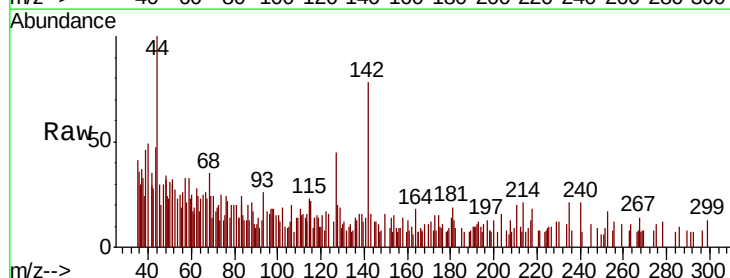
Tgt Ion: 142 Resp: 1255

Ion Ratio Lower Upper

142 100

127 33.9 31.2 46.8

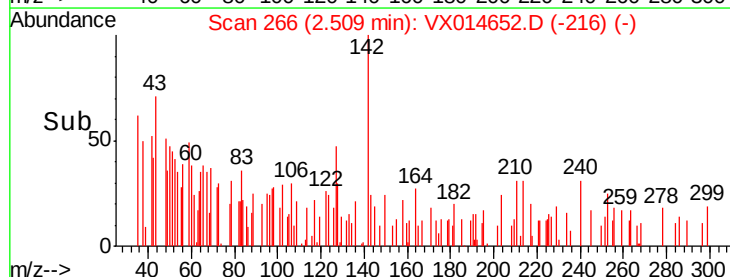
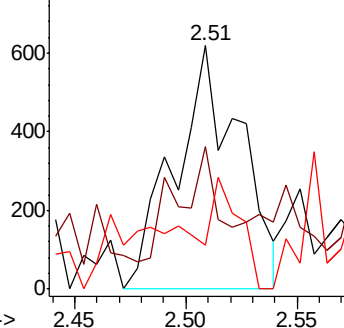
141 18.8 11.4 17.2#

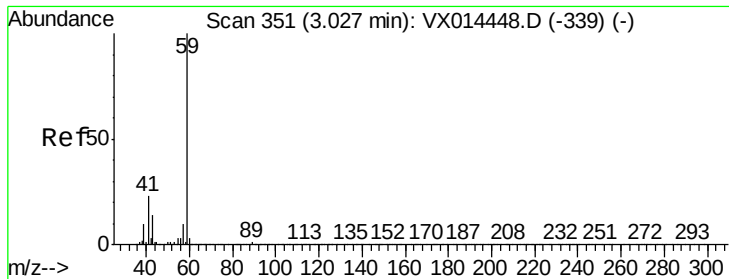


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



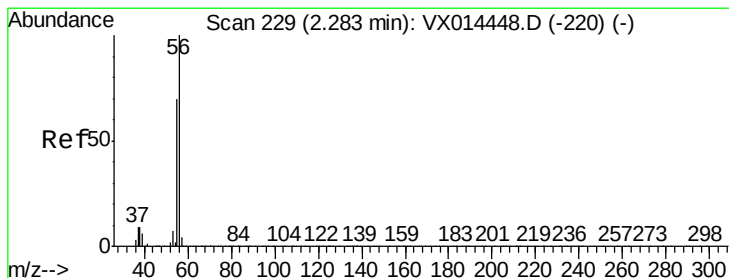
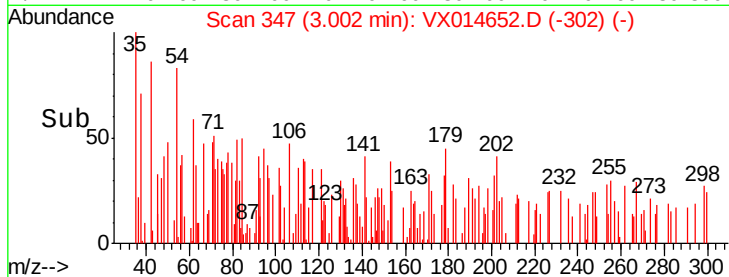
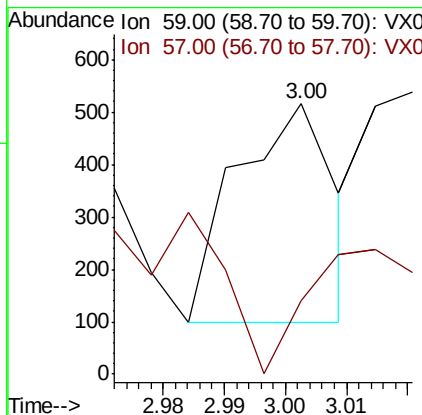
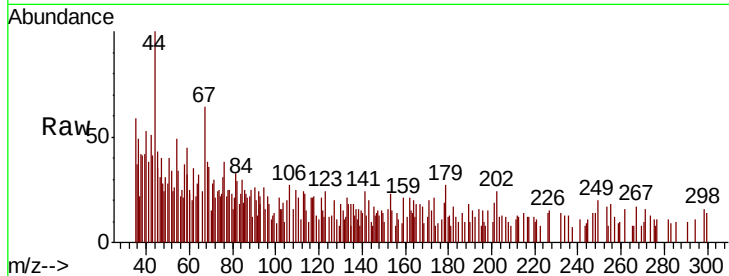


#11

Tert butyl alcohol
Concen: 0.465 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.02 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

Instrument :
MSVOA_X
ClientSampled :

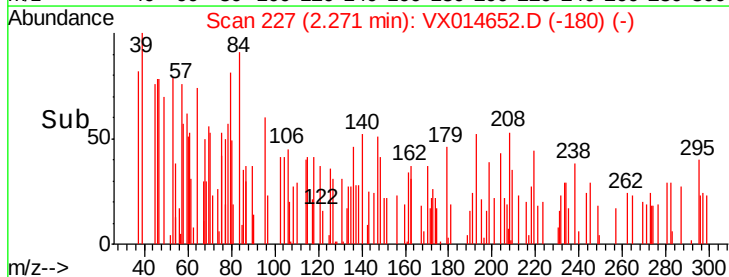
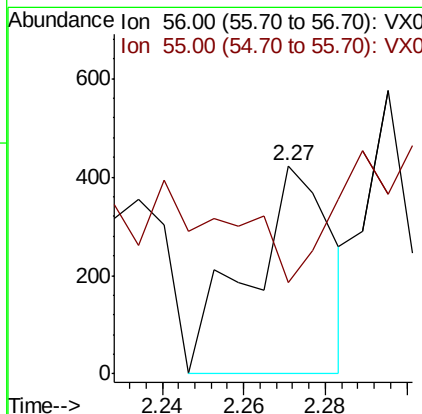
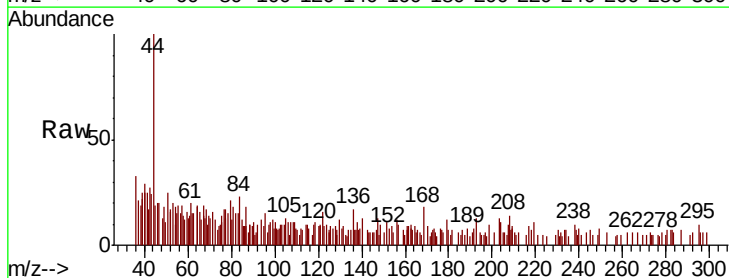
Tot Ion: 59 Resp: 465
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

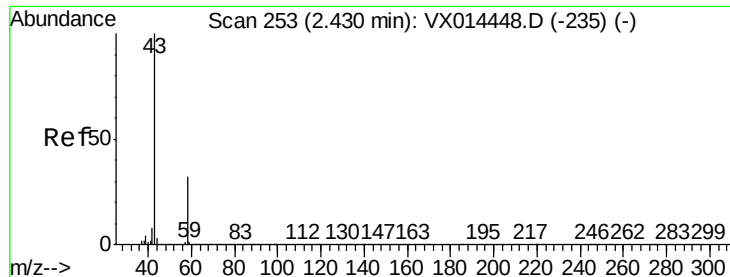


#13

Acrolein
Concen: 0.739 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.01 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

Tgt Ion: 56 Resp: 592
Ion Ratio Lower Upper
56 100
55 0.0 55.0 82.6#

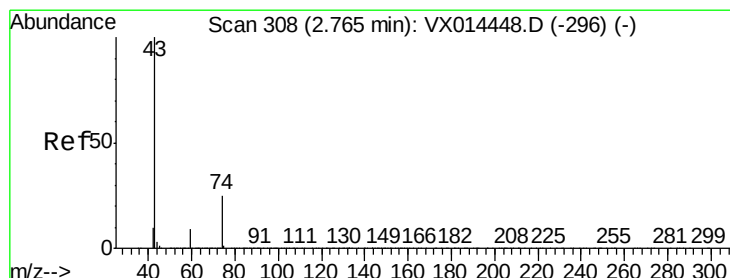
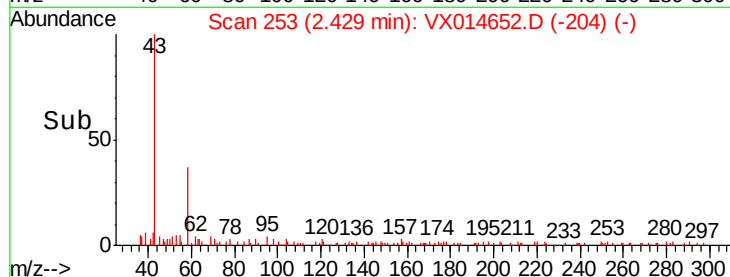
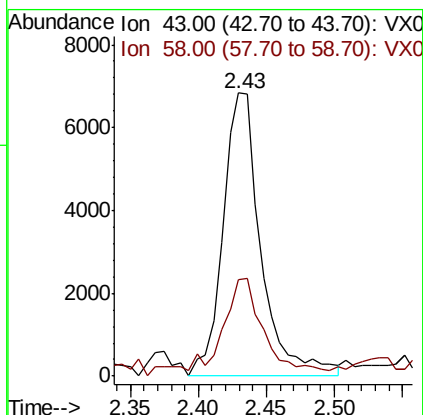
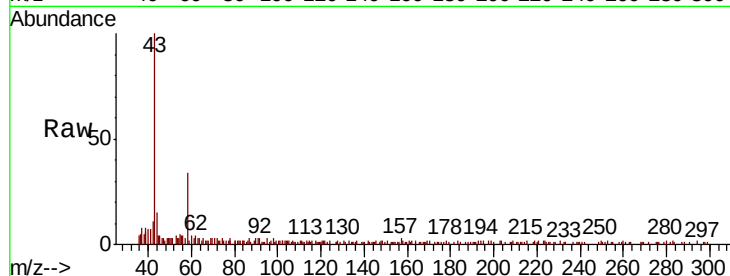




#16
Acetone
Concen: 1.376 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

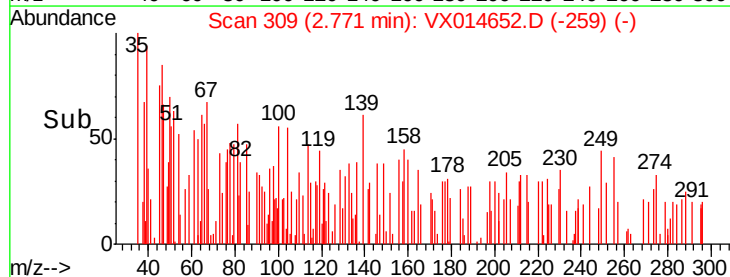
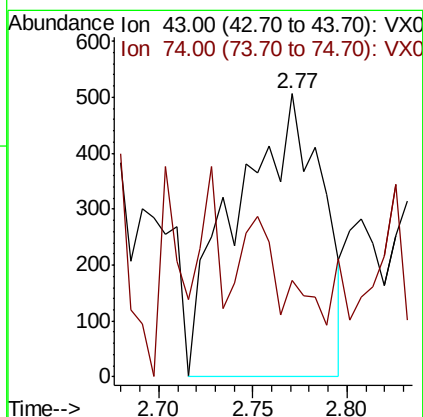
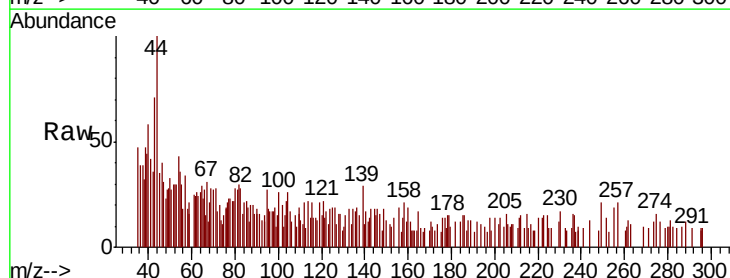
Instrument :
MSVOA_X
ClientSampleId :

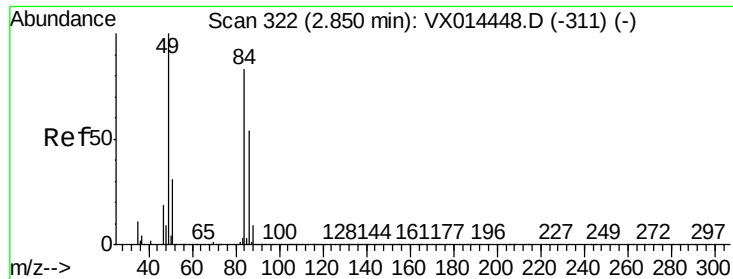
Tot Ion: 43 Resp: 13275
Ion Ratio Lower Upper
43 100
58 32.5 25.4 38.0



#18
Methyl Acetate
Concen: 0.231 ug/l
RT: 2.77 min Scan# 309
Delta R.T. 0.01 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

Tgt Ion: 43 Resp: 1587
Ion Ratio Lower Upper
43 100
74 24.3 19.4 29.2

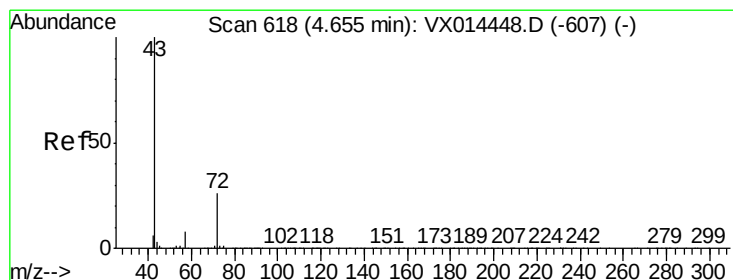
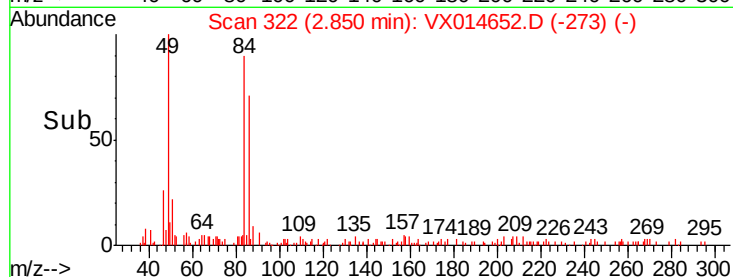
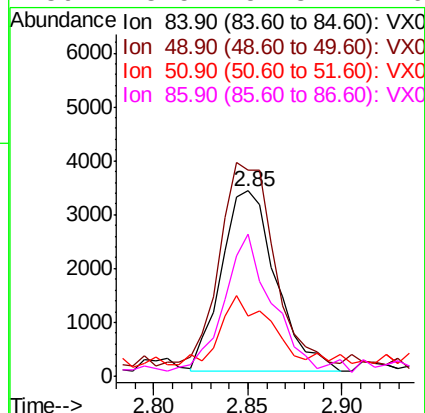
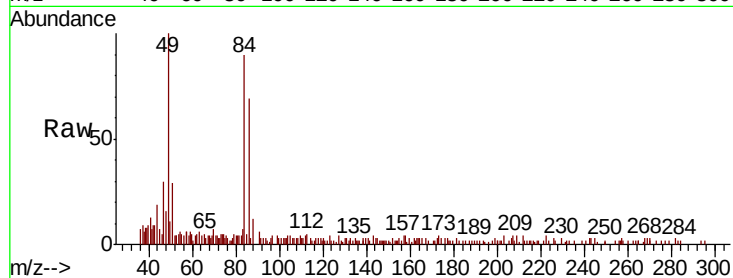




#20
Methylene Chloride
Concen: 1.398 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

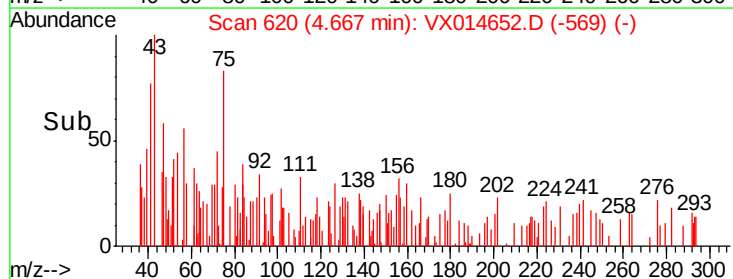
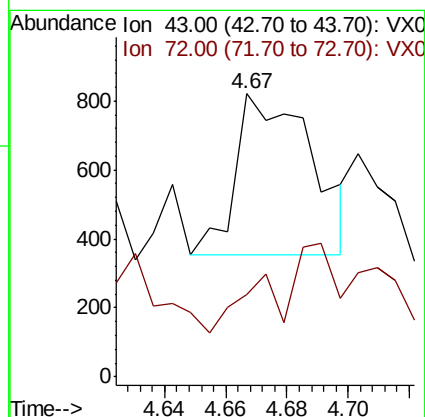
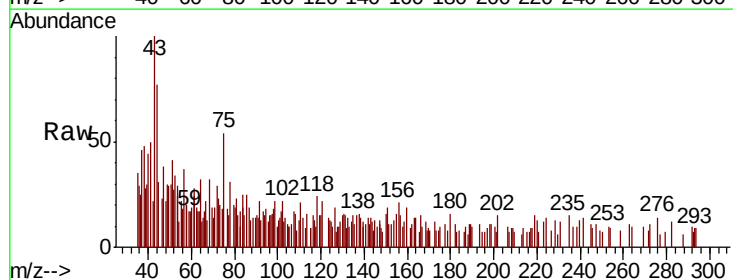
Instrument :
MSVOA_X
ClientSampleId :

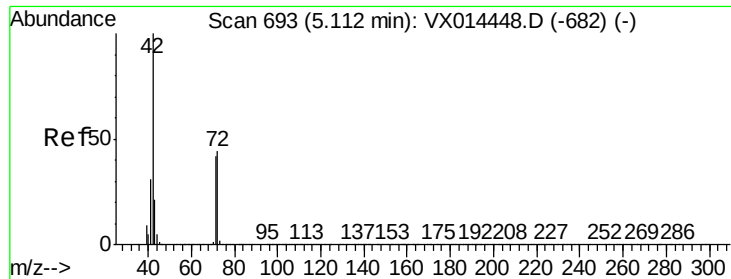
Tot Ion: 84 Resp: 6732
Ion Ratio Lower Upper
84 100
49 108.9 95.8 143.8
51 21.5 30.2 45.4#
86 73.5 51.8 77.6



#25
2-Butanone
Concen: 0.223 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

Tgt Ion: 43 Resp: 796
Ion Ratio Lower Upper
43 100
72 10.7 20.6 31.0#

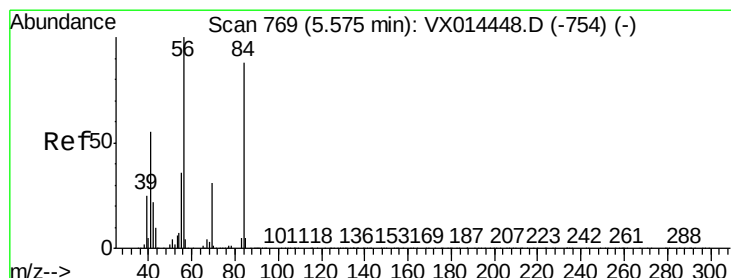
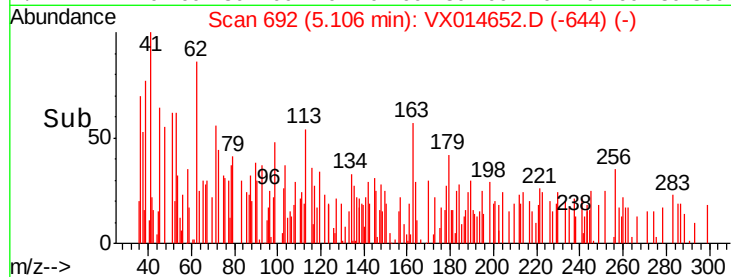
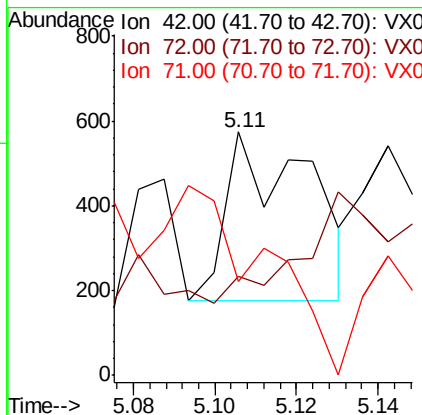
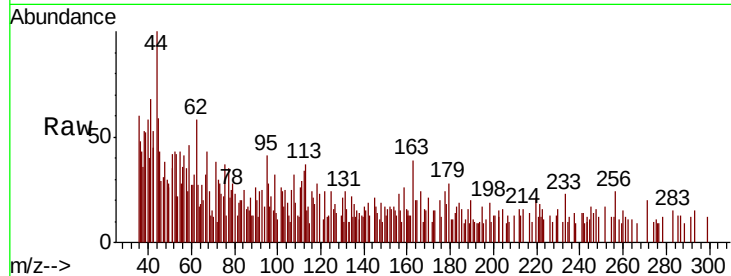




#29
Tetrahydrofuran
Concen: 0.264 ug/l
RT: 5.11 min Scan# 692
Delta R.T. -0.01 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

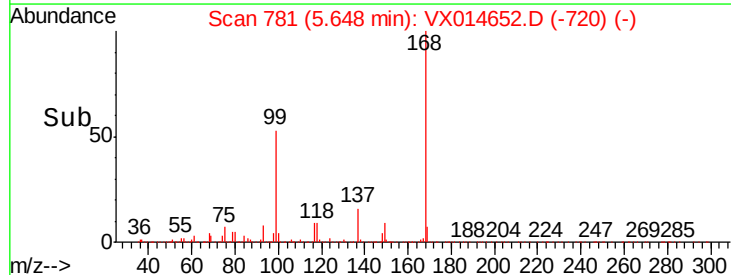
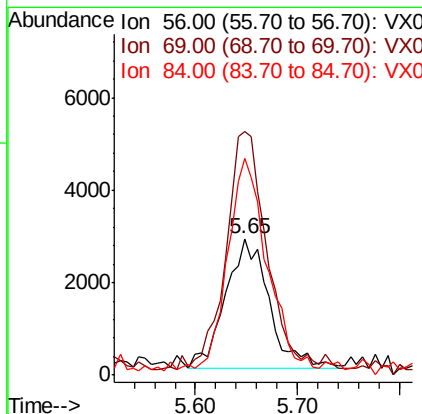
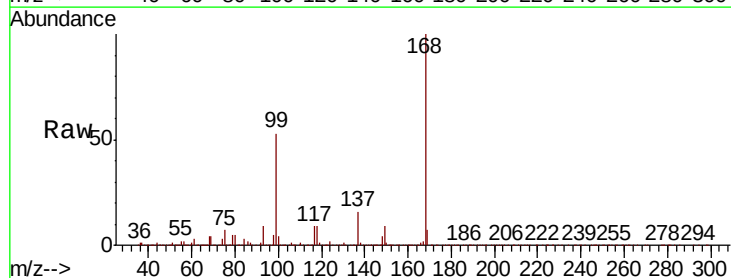
Instrument :
MSVOA_X
ClientSampled :

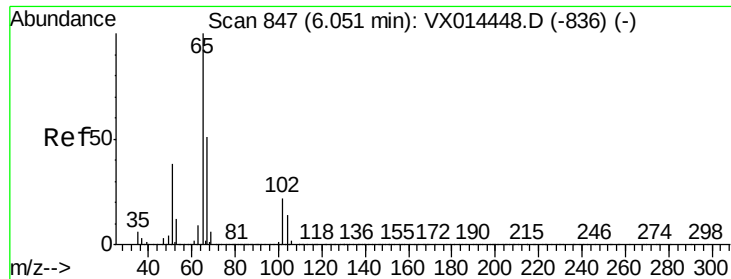
Tot Ion: 42 Resp: 557
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 0.0 34.1 51.1#



#31
Cyclohexane
Concen: 1.158 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.07 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

Tgt Ion: 56 Resp: 8471
Ion Ratio Lower Upper
56 100
69 192.7 24.4 36.6#
84 165.9 70.6 106.0#

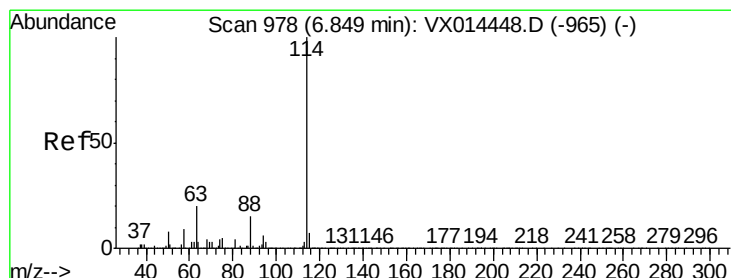
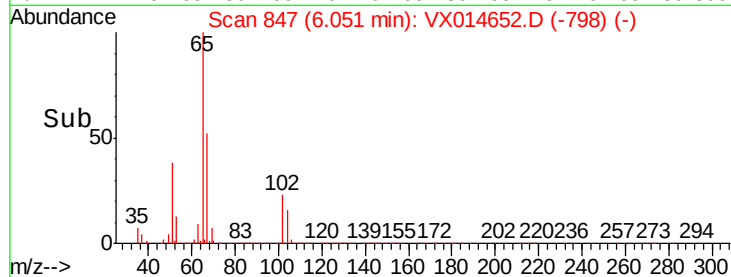
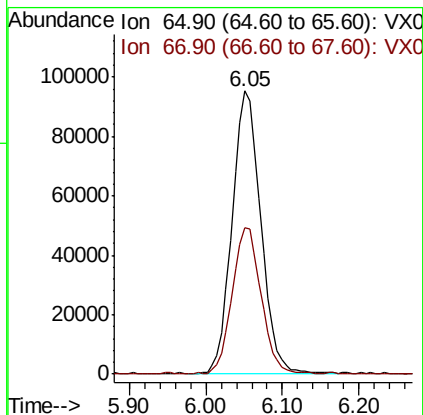
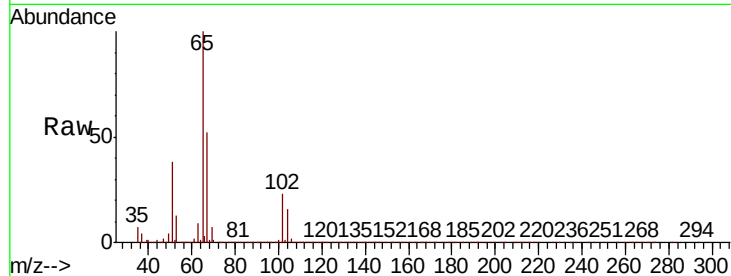




#33
 1,2-Dichloroethane-d4
 Concen: 51.612 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX014652.D
 Acq: 17 Jan 2020 14:11

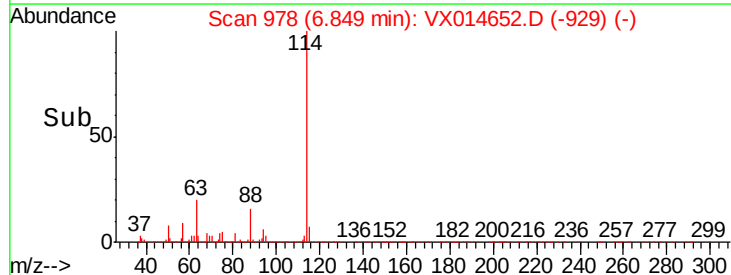
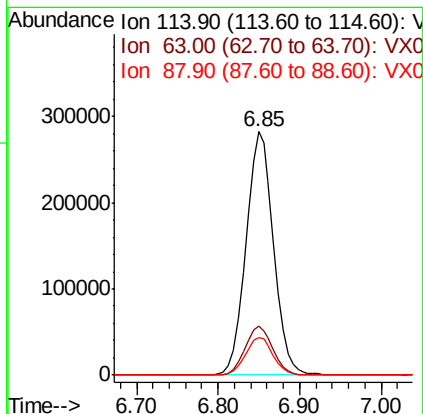
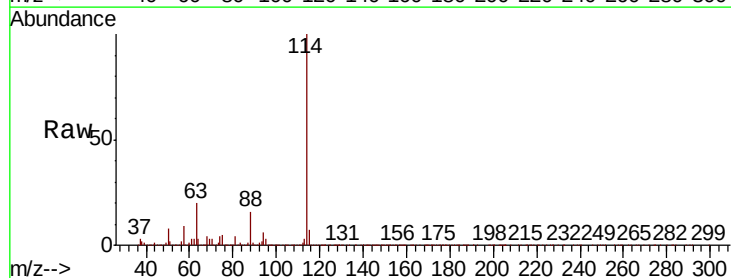
Instrument :
 MSVOA_X
 ClientSampled :

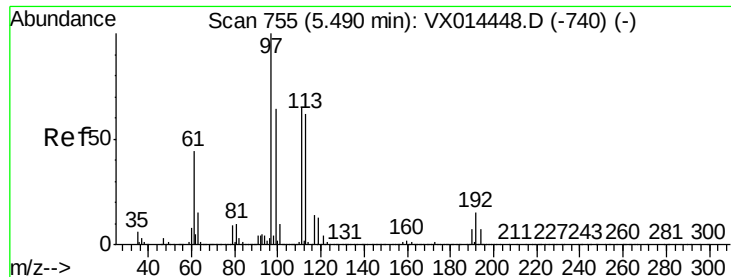
Tot Ion: 65 Resp: 247031
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX014652.D
 Acq: 17 Jan 2020 14:11

Tgt Ion: 114 Resp: 659691
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.6
 88 15.5 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.489 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

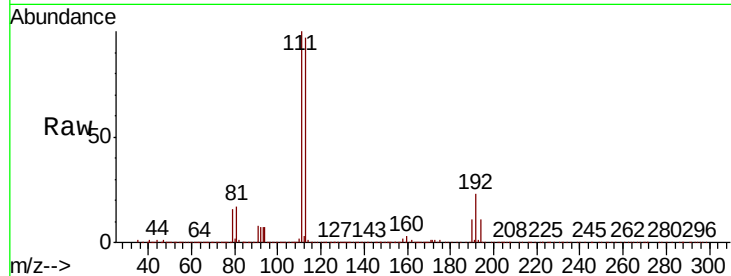
Tot Ion:113 Resp: 201621

Ion Ratio Lower Upper

113 100

111 102.2 81.5 122.3

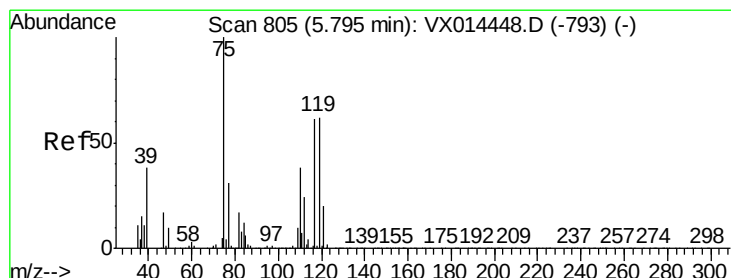
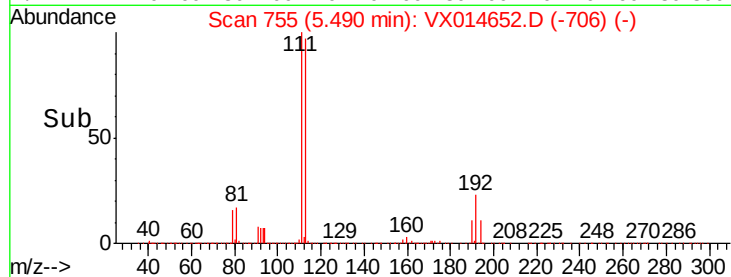
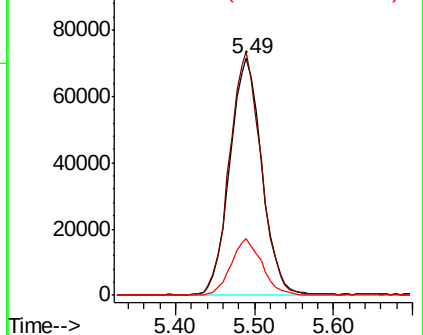
192 23.4 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.836 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

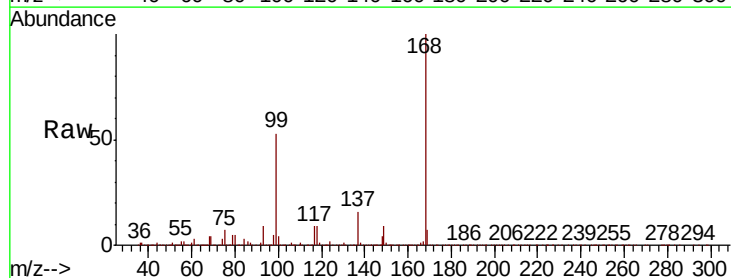
Tgt Ion: 75 Resp: 30002

Ion Ratio Lower Upper

75 100

110 9.9 18.6 55.8#

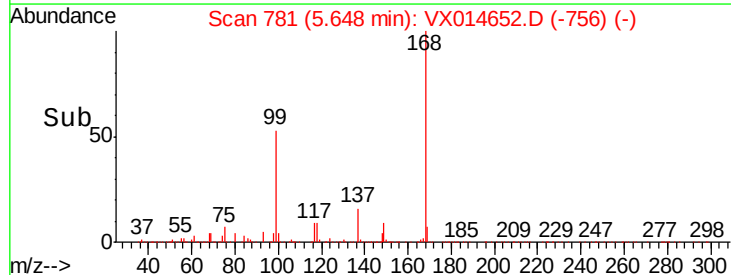
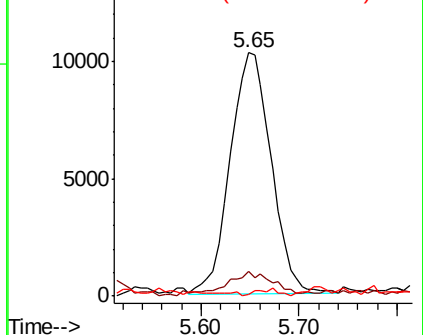
77 0.0 24.5 36.7#

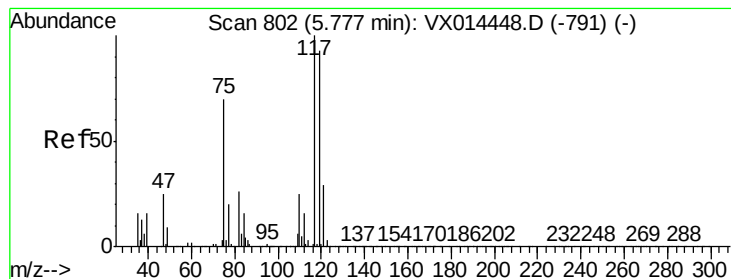


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.525 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

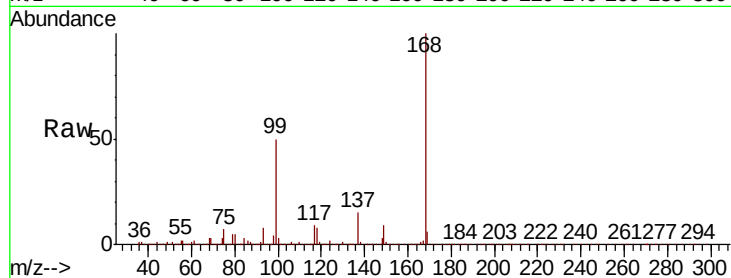
Tot Ion:117 Resp: 37248

Ion Ratio Lower Upper

117 100

119 5.2 73.8 110.8#

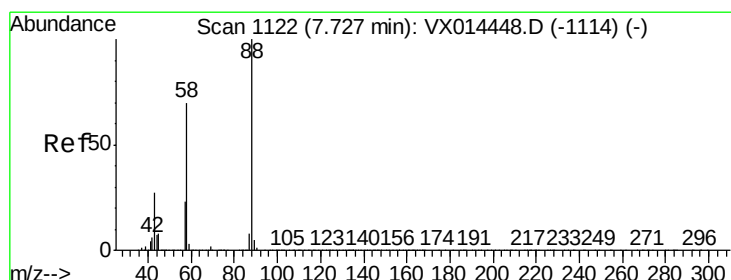
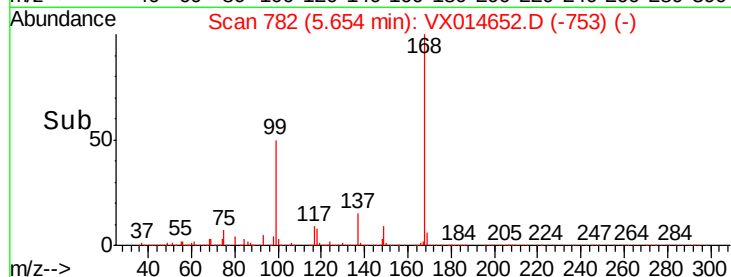
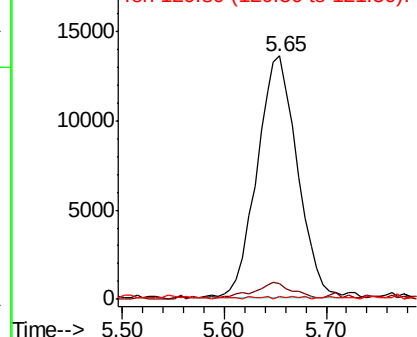
121 0.5 23.4 35.0#



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



#49

1,4-Dioxane

Concen: 1.412 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

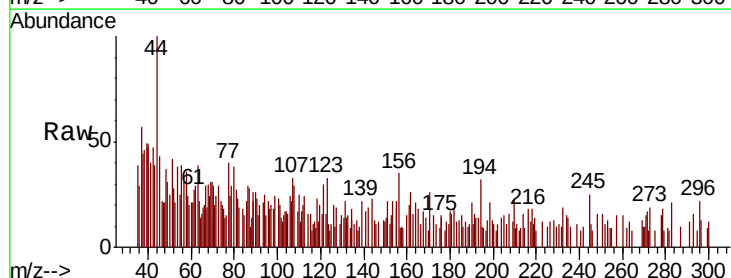
Tgt Ion: 88 Resp: 156

Ion Ratio Lower Upper

88 100

43 276.3 27.4 41.0#

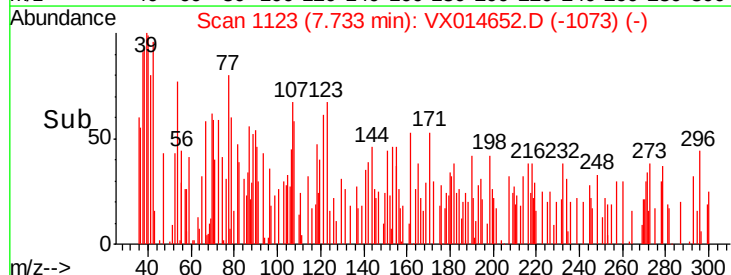
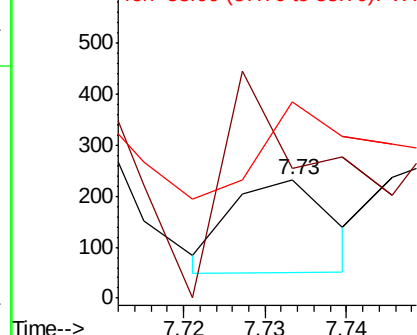
58 130.1 57.1 85.7#

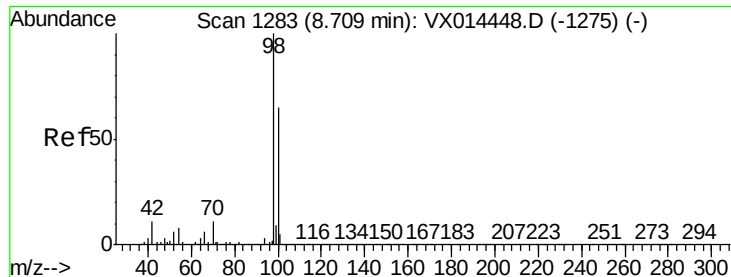


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

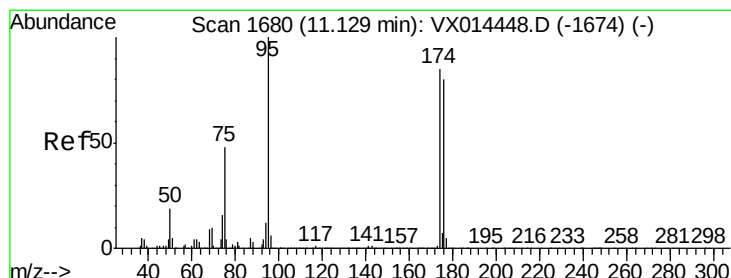
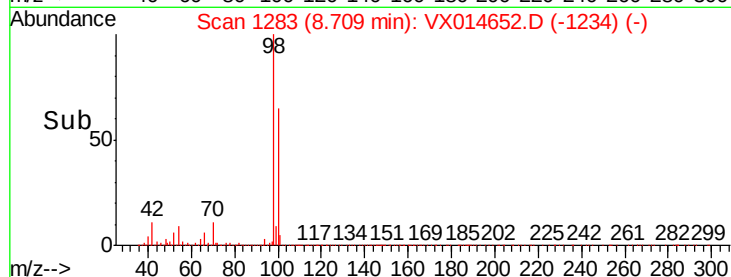
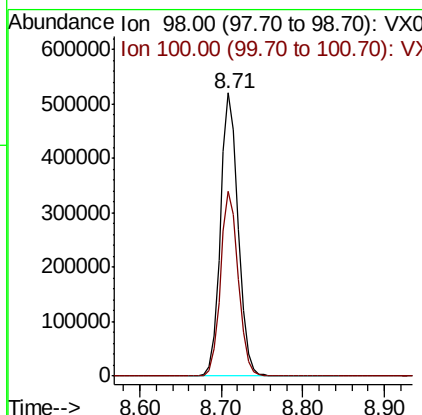
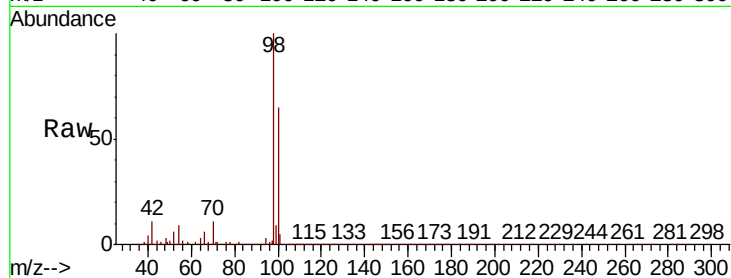




#50
Toluene-d8
Concen: 50.880 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

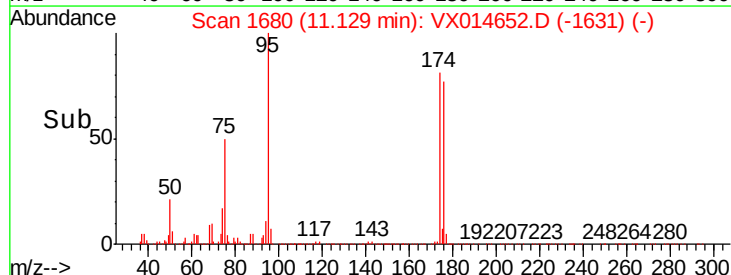
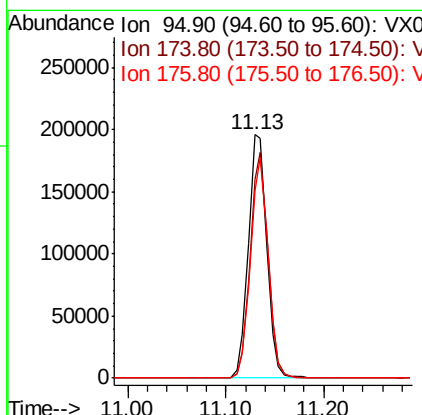
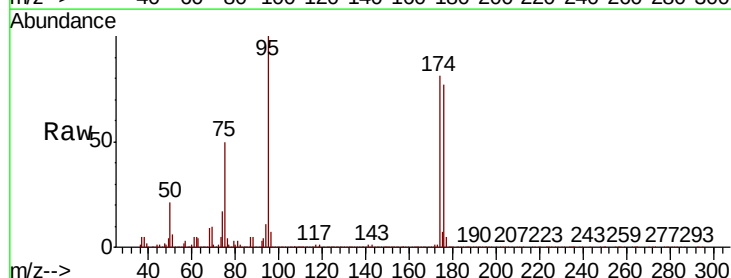
Instrument :
MSVOA_X
ClientSampled :

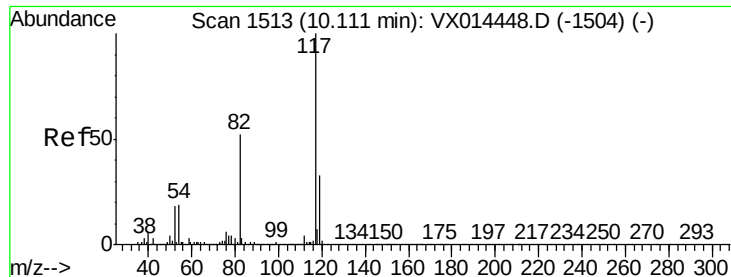
Tot Ion: 98 Resp: 788486
Ion Ratio Lower Upper
98 100
100 64.9 53.2 79.8



#62
4-Bromofluorobenzene
Concen: 45.350 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014652.D
Acq: 17 Jan 2020 14:11

Tgt Ion: 95 Resp: 258003
Ion Ratio Lower Upper
95 100
174 89.6 0.0 180.8
176 86.4 0.0 172.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

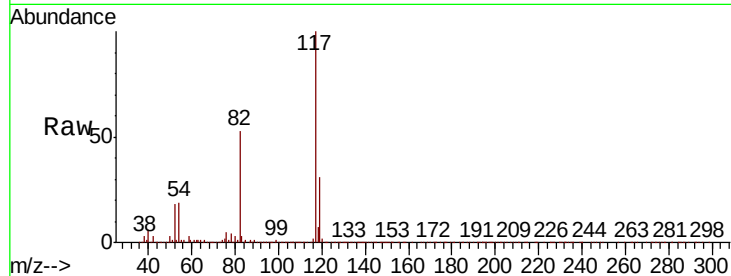
Tot Ion:117 Resp: 593368

Ion Ratio Lower Upper

117 100

82 52.6 41.8 62.6

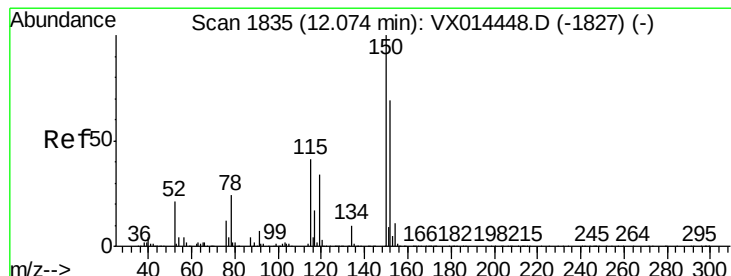
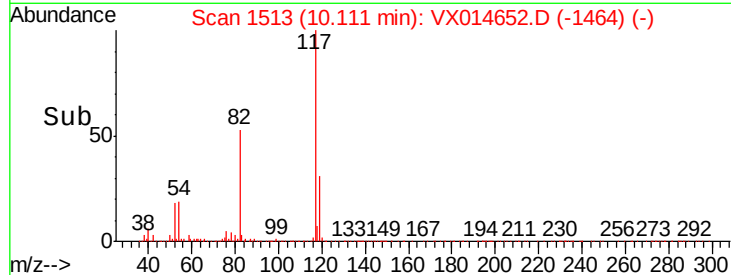
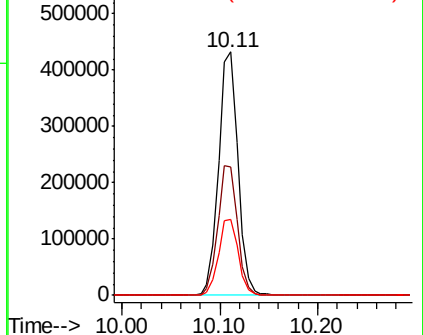
119 31.3 26.2 39.4



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: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

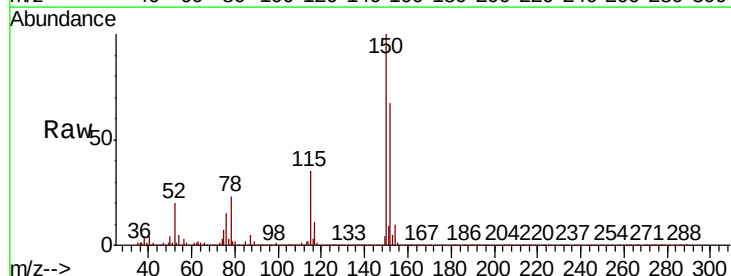
Tgt Ion:152 Resp: 259028

Ion Ratio Lower Upper

152 100

115 54.4 39.5 118.3

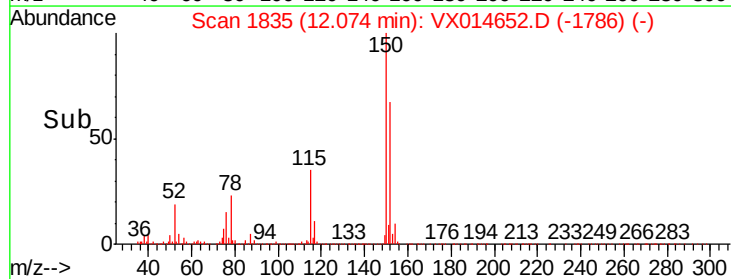
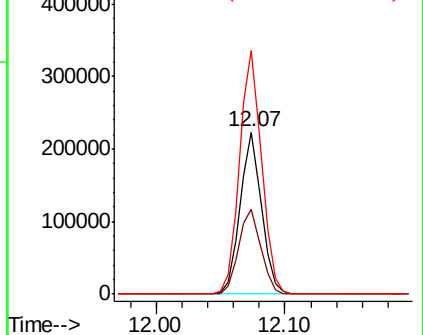
150 153.9 0.0 350.2

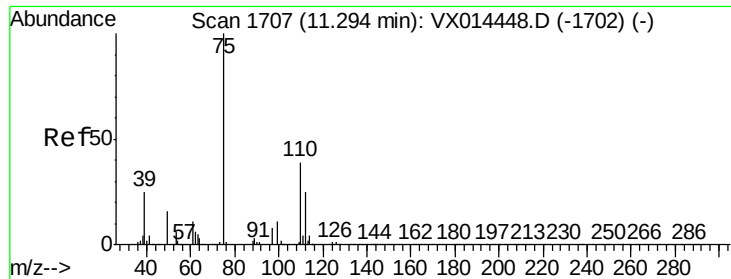


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

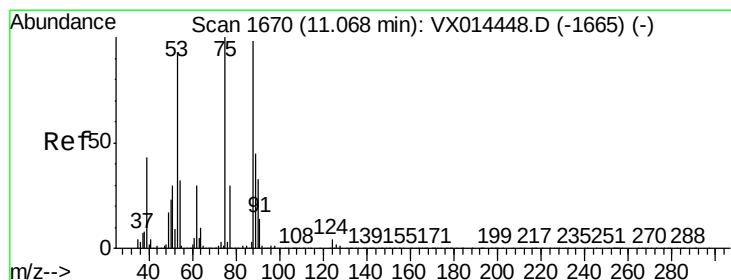
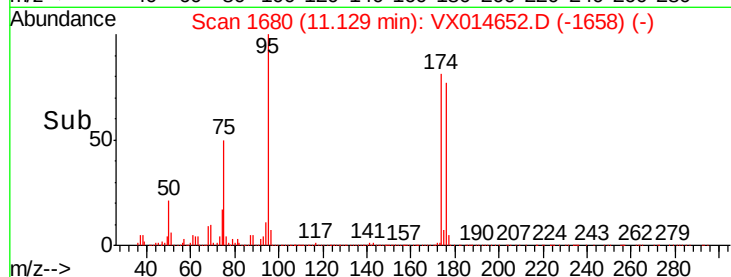
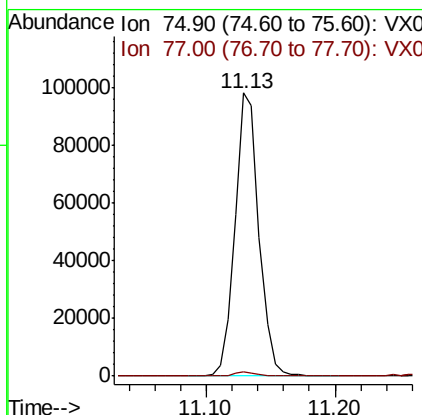
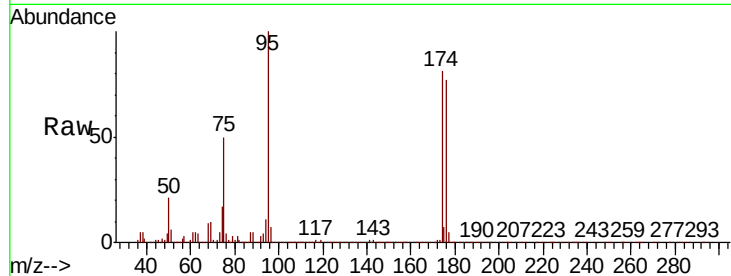




#76
 1,2,3-Trichloropropane
 Concen: 23.568 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014652.D
 Acq: 17 Jan 2020 14:11

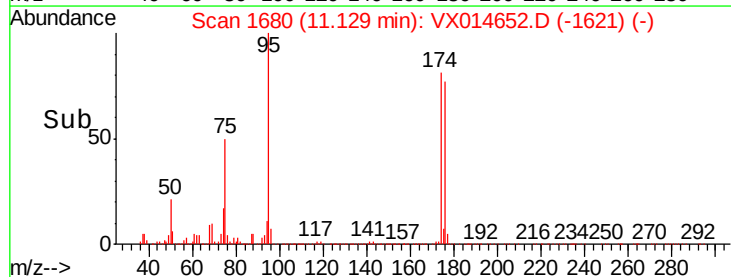
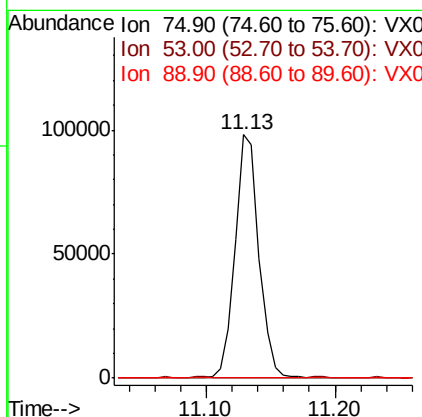
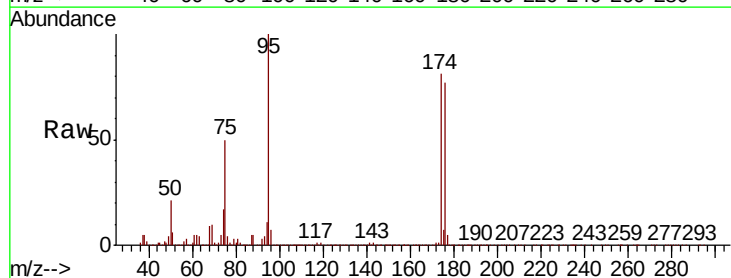
Instrument :
 MSVOA_X
 ClientSampled :

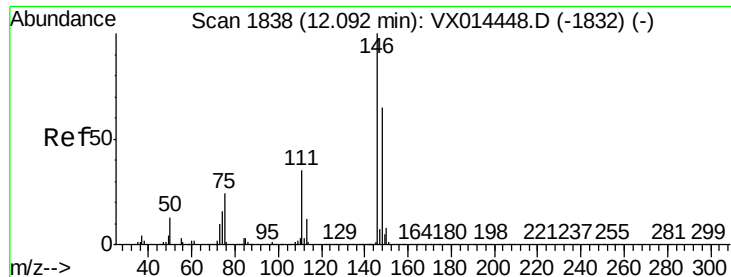
Tot Ion: 75 Resp: 126311
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.9 65.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.310 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX014652.D
 Acq: 17 Jan 2020 14:11

Tgt Ion: 75 Resp: 126311
 Ion Ratio Lower Upper
 75 100
 53 0.4 74.8 112.2#
 89 0.0 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.07 min Scan# 1834

Delta R.T. -0.02 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

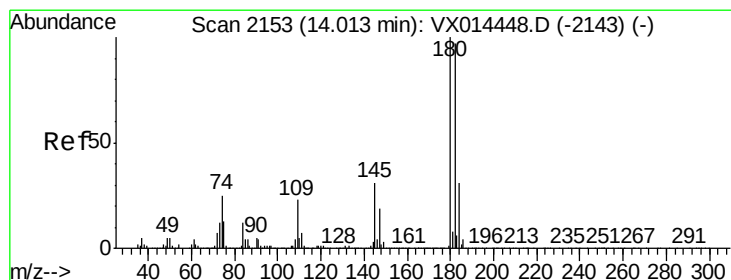
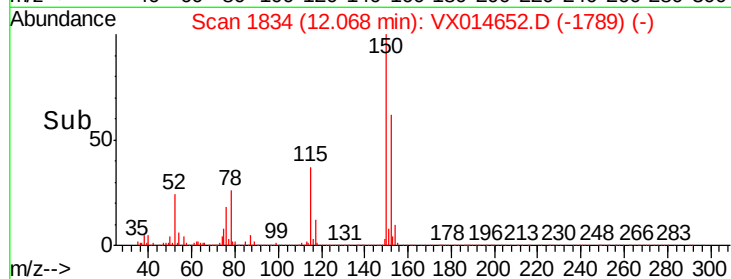
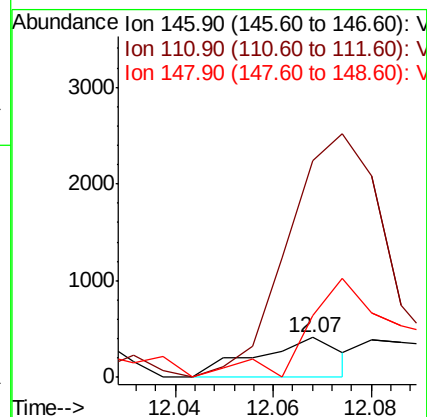
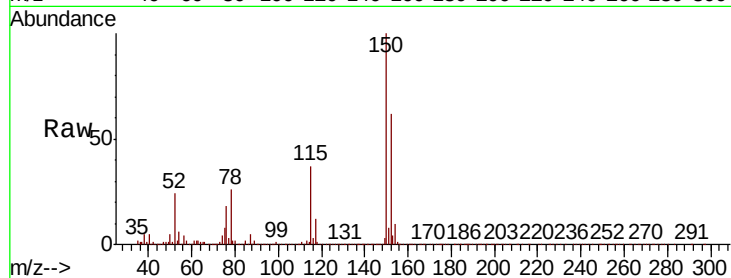
Tot Ion:146 Resp: 492

Ion Ratio Lower Upper

146 100

111 765.7 18.1 54.1#

148 258.9 32.1 96.3#



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VX014652.D

Acq: 17 Jan 2020 14:11

Tgt Ion:180 Resp: 409

Ion Ratio Lower Upper

180 100

182 77.5 47.9 143.6

145 73.6 14.8 44.3#

