

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013657.D
 Acq On : 27 Nov 2019 17:24
 Operator : JC/SP
 Sample : K5962-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-20191120

Quant Time: Nov 28 03:31:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	649477	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1047249	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	941830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	441097	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	377788	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
35) Dibromofluoromethane	5.49	113	312209	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
50) Toluene-d8	8.71	98	1238448	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
62) 4-Bromofluorobenzene	11.14	95	424346	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	

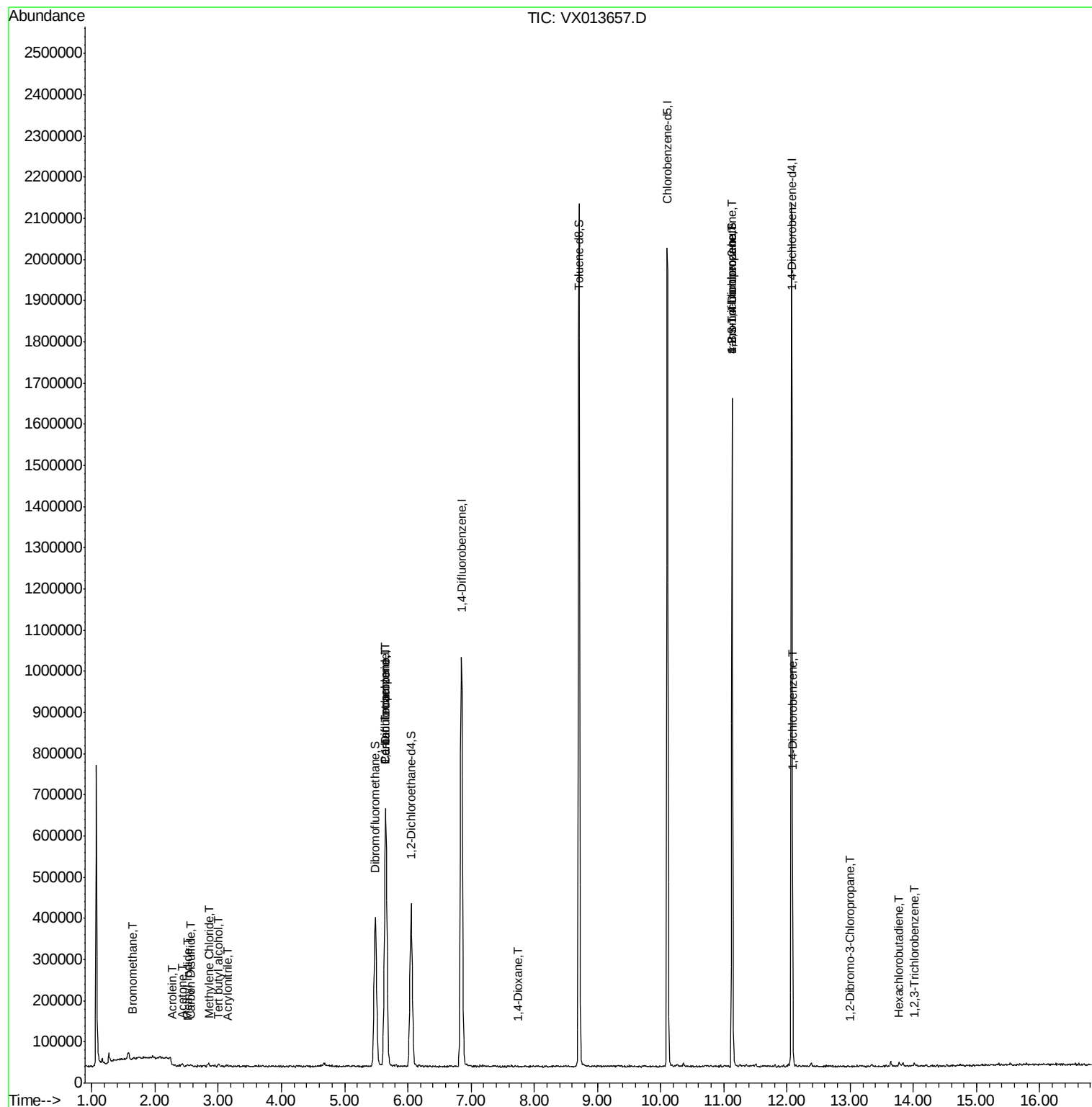
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1647	0.269	ug/l #	43
10) Methyl Iodide	2.52	142	2562	0.342	ug/l #	52
11) Tert butyl alcohol	3.01	59	2924	1.571	ug/l #	93
13) Acrolein	2.27	56	151	6.122	ug/l #	1
15) Acrylonitrile	3.14	53	1994	0.519	ug/l #	27
16) Acetone	2.43	43	7447	2.001	ug/l #	75
17) Carbon Disulfide	2.56	76	4411	0.250	ug/l #	91
20) Methylene Chloride	2.85	84	3632	0.508	ug/l #	82
36) 1,1-Dichloropropene	5.65	75	44058	4.635	ug/l #	51
38) Carbon Tetrachloride	5.65	117	58685	6.695	ug/l #	15
49) 1,4-Dioxane	7.73	88	247	1.294	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	211620	21.330	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	211620	58.356	ug/l #	11
88) 1,4-Dichlorobenzene	12.09	146	3416	0.230	ug/l #	71
92) 1,2-Dibromo-3-Chloropropan	12.99	75	648	0.277	ug/l #	68
94) Hexachlorobutadiene	13.78	225	1471	0.305	ug/l	66
96) 1,2,3-Trichlorobenzene	14.01	180	2239	0.225	ug/l	75

(#) = 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# 781

Delta R.T. 0.00 min

Lab File: VX013657.D

Acq: 27 Nov 2019 17:24

Instrument :

MSVOA_X

ClientSampleId :

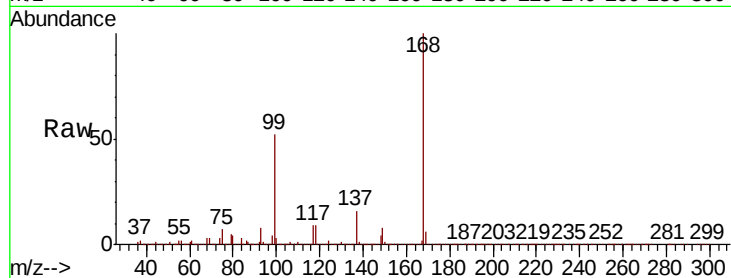
TB-01-20191120

Tot Ion:168 Resp: 649477

Ion Ratio Lower Upper

168 100

99 51.6 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

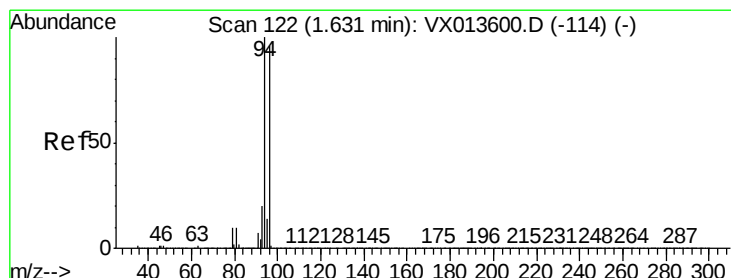
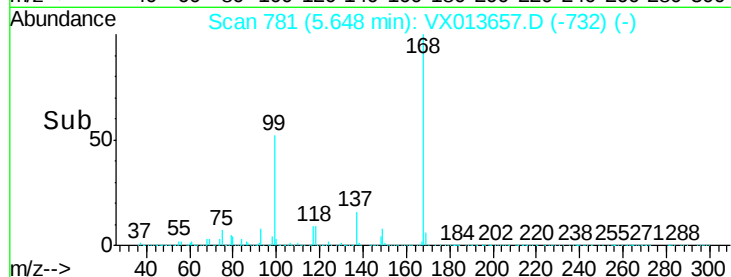
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.269 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013657.D

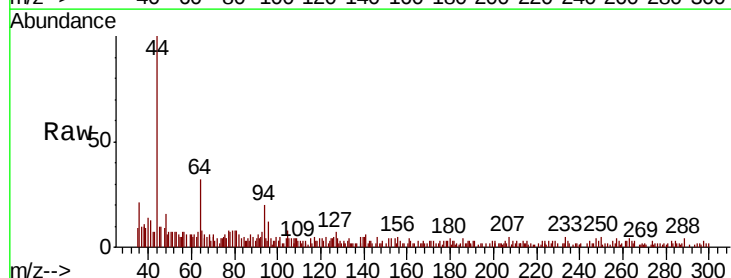
Acq: 27 Nov 2019 17:24

Tgt Ion: 94 Resp: 1647

Ion Ratio Lower Upper

94 100

96 40.9 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

600

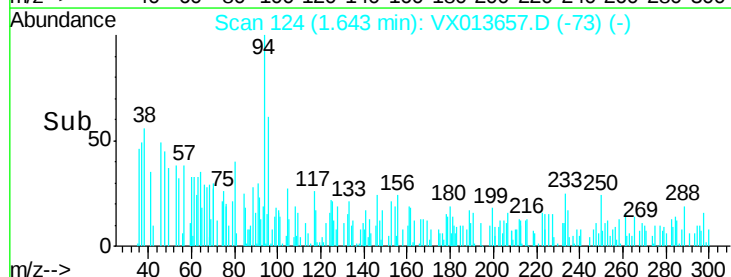
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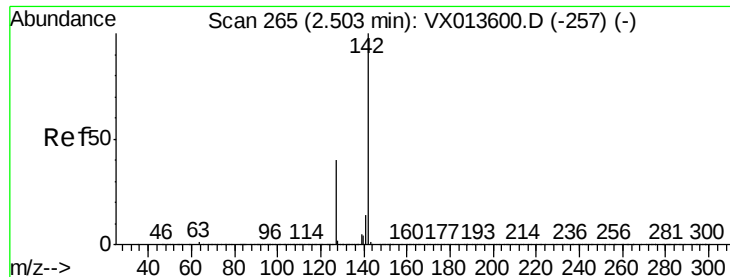
200

0

Time-->

1.60 1.65 1.70

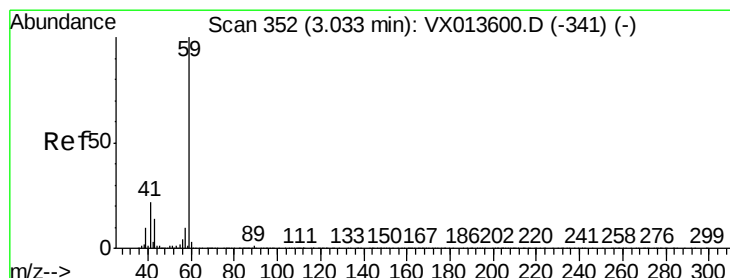
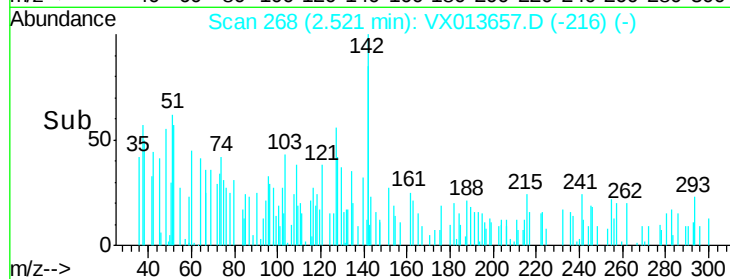
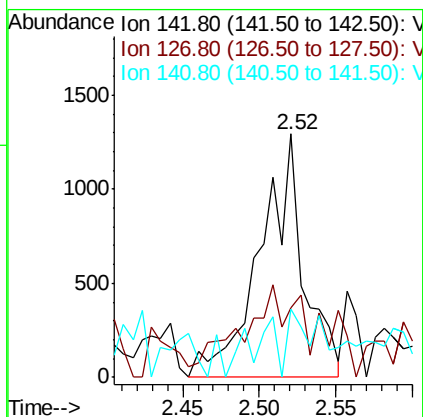
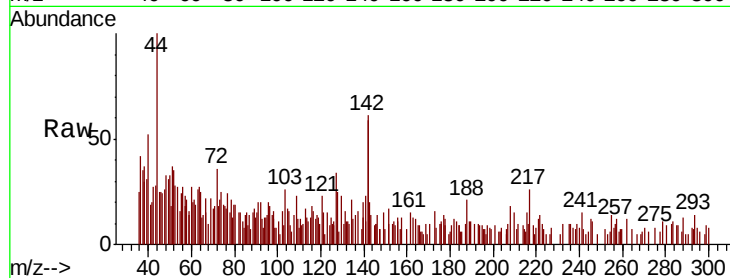




#10
Methvl Iodide
Concen: 0.342 ug/l
RT: 2.52 min Scan# 268
Delta R.T. 0.02 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

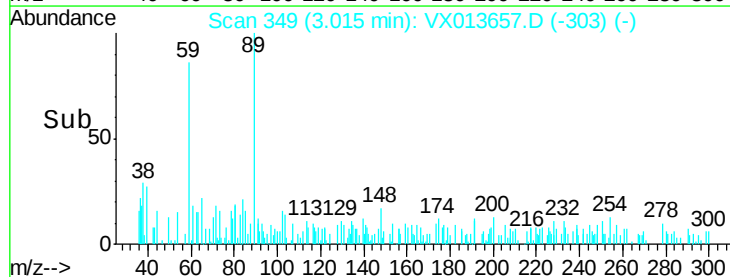
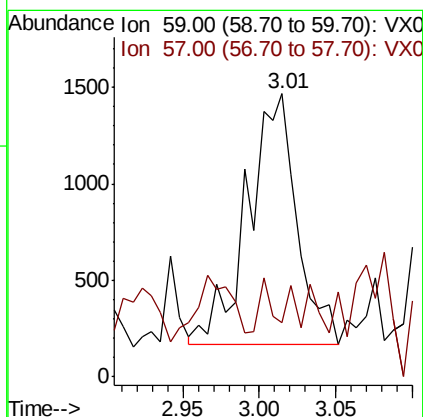
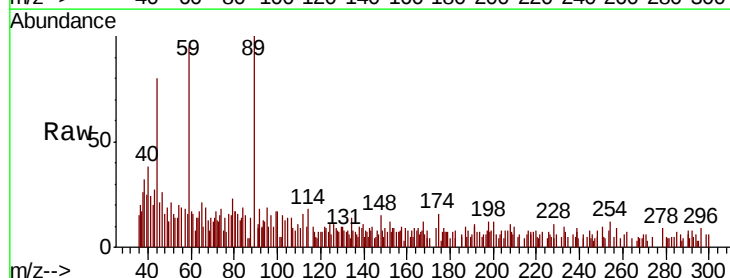
Instrument :
MSVOA_X
ClientSampleId :
TB-01-20191120

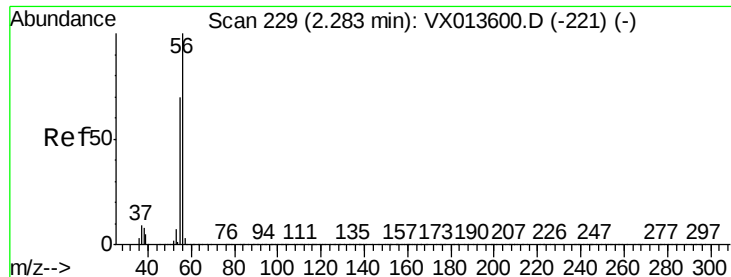
Tot Ion:142 Resp: 2562
Ion Ratio Lower Upper
142 100
127 0.0 31.0 46.4#
141 11.4 11.6 17.4#



#11
Tert butyl alcohol
Concen: 1.571 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

Tgt Ion: 59 Resp: 2924
Ion Ratio Lower Upper
59 100
57 7.0 7.8 11.6#

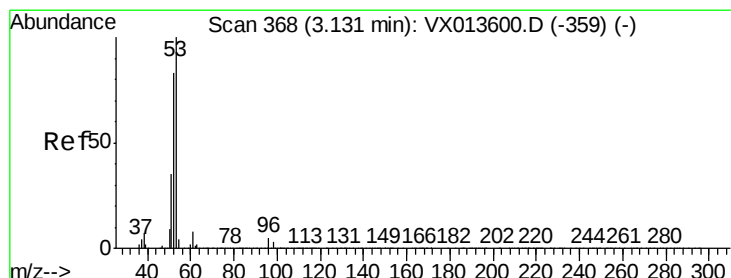
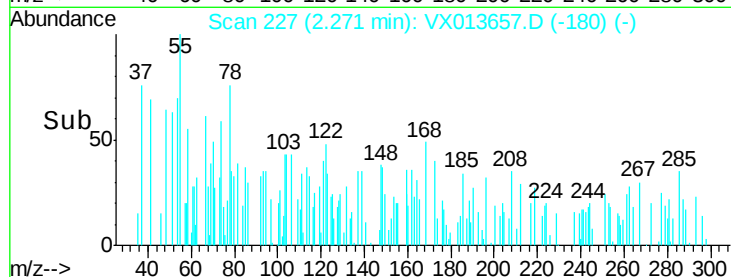
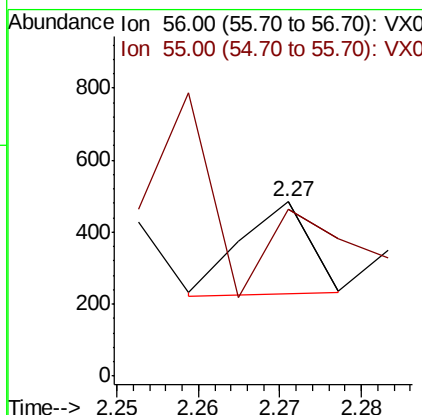
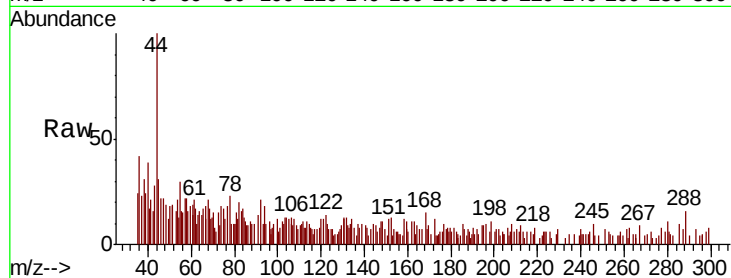




#13
Acrolein
Concen: 6.122 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.01 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

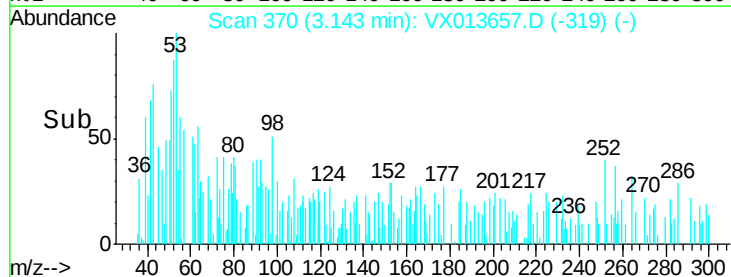
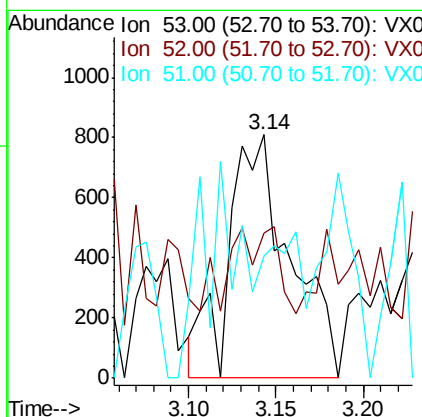
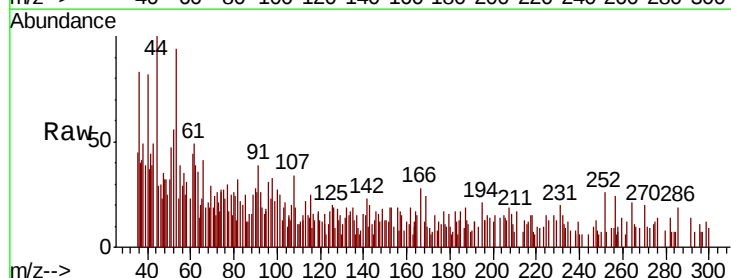
Instrument :
MSVOA_X
ClientSampled :
TB-01-20191120

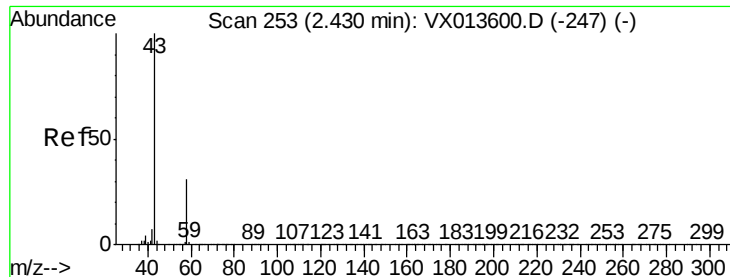
Tot Ion: 56 Resp: 151
Ion Ratio Lower Upper
56 100
55 257.6 56.2 84.4#



#15
Acrylonitrile
Concen: 0.519 ug/l
RT: 3.14 min Scan# 370
Delta R.T. 0.01 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

Tgt Ion: 53 Resp: 1994
Ion Ratio Lower Upper
53 100
52 0.0 66.2 99.2#
51 18.8 29.0 43.6#

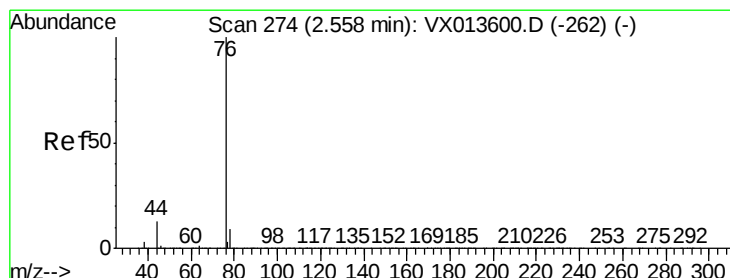
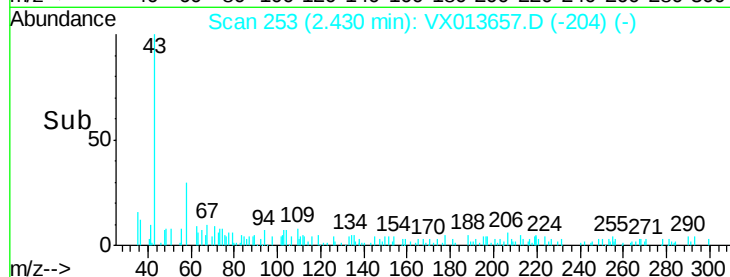
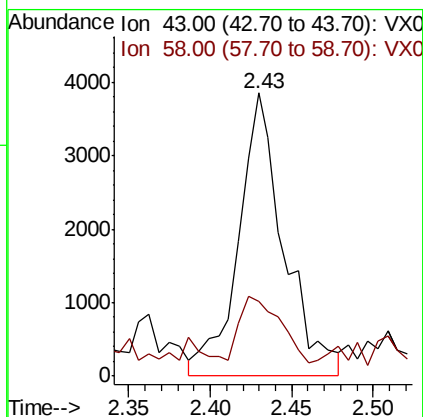
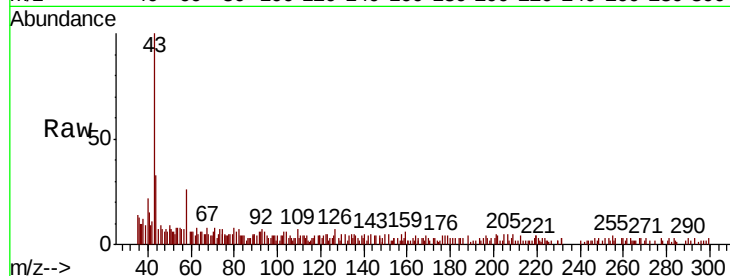




#16
Acetone
Concen: 2.001 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

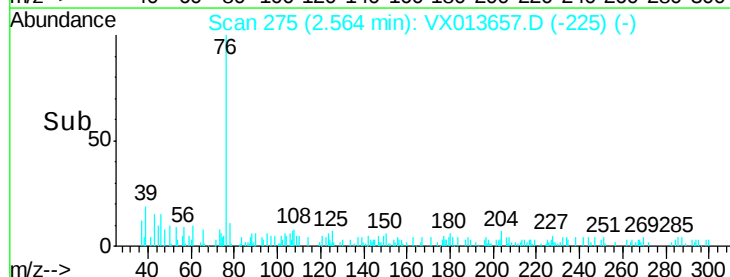
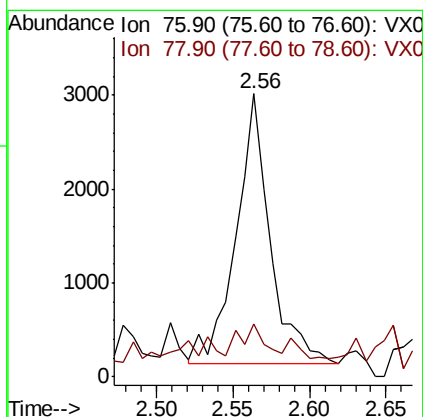
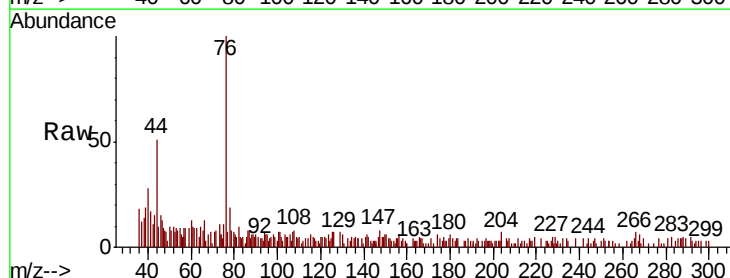
Instrument :
MSVOA_X
ClientSampleId :
TB-01-20191120

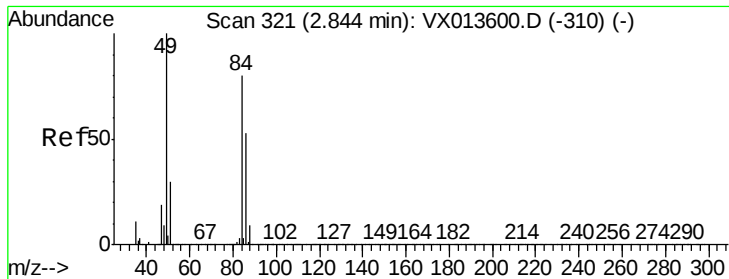
Tot Ion: 43 Resp: 7447
Ion Ratio Lower Upper
43 100
58 17.0 24.6 36.8#



#17
Carbon Disulfide
Concen: 0.250 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

Tgt Ion: 76 Resp: 4411
Ion Ratio Lower Upper
76 100
78 12.3 7.2 10.8#

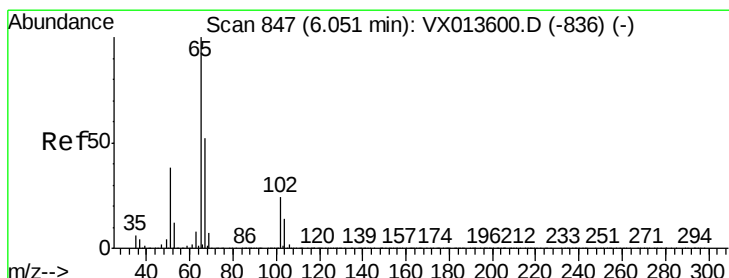
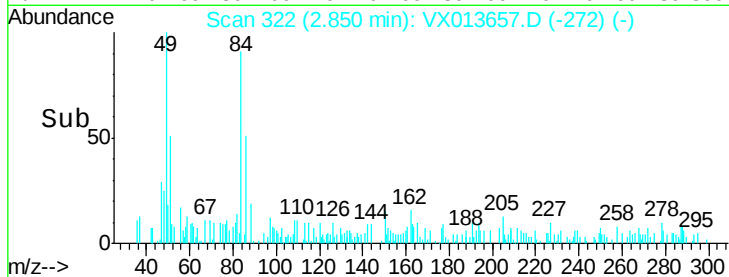
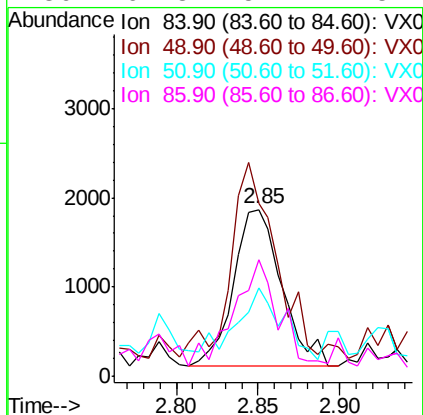
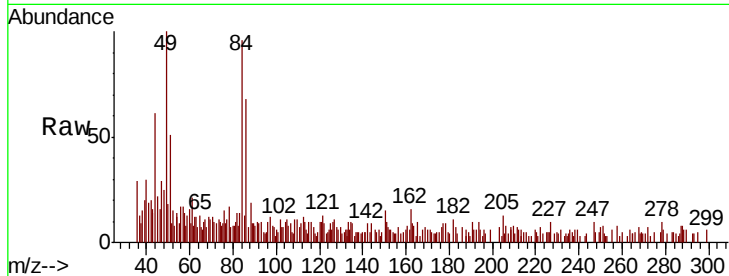




#20
Methylene Chloride
Concen: 0.508 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

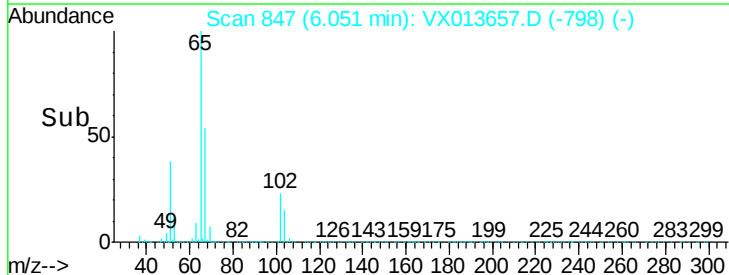
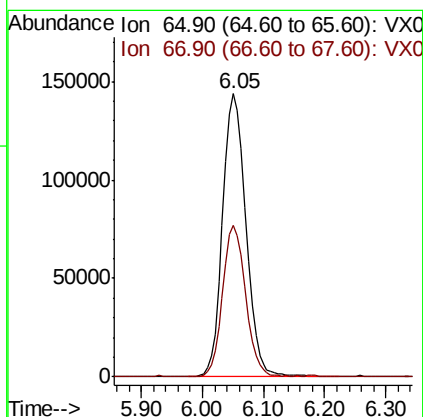
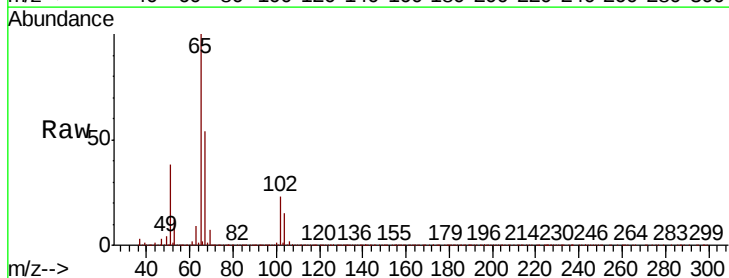
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ClientSampleId :
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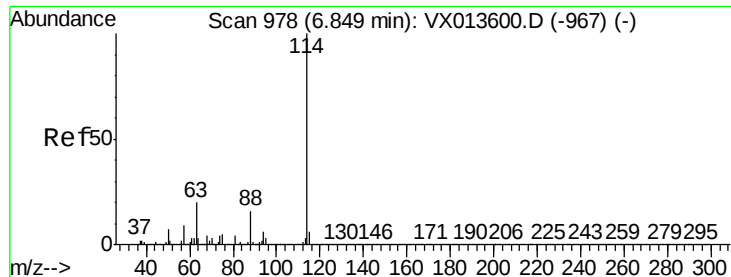
Tot Ion: 84 Resp: 3632
Ion Ratio Lower Upper
84 100
49 90.9 99.7 149.5#
51 39.8 29.9 44.9
86 67.8 52.2 78.4



#33
1,2-Dichloroethane-d4
Concen: 50.111 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

Tgt Ion: 65 Resp: 377788
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013657.D

Acq: 27 Nov 2019 17:24

Instrument :

MSVOA_X

ClientSampleId :

TB-01-20191120

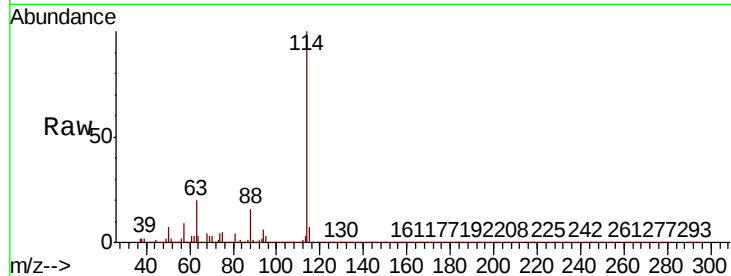
Tot Ion:114 Resp: 1047249

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

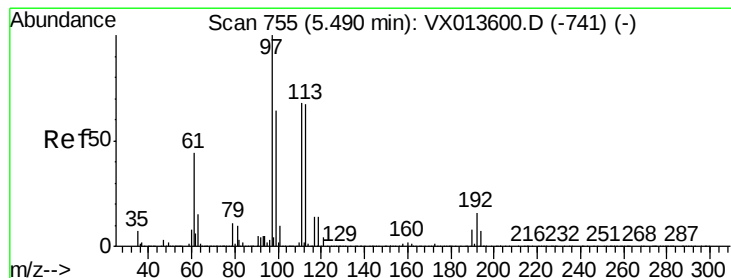
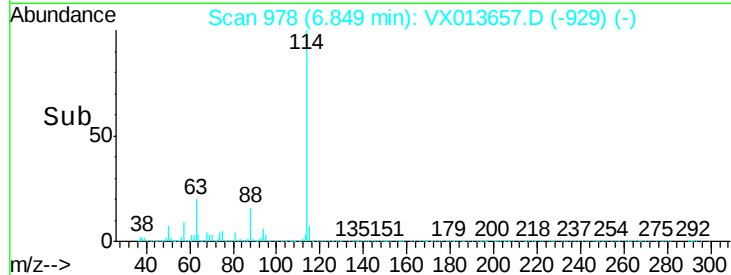
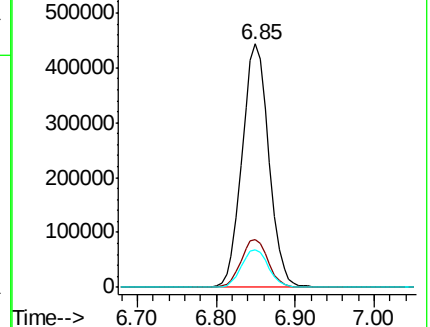
88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.223 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013657.D

Acq: 27 Nov 2019 17:24

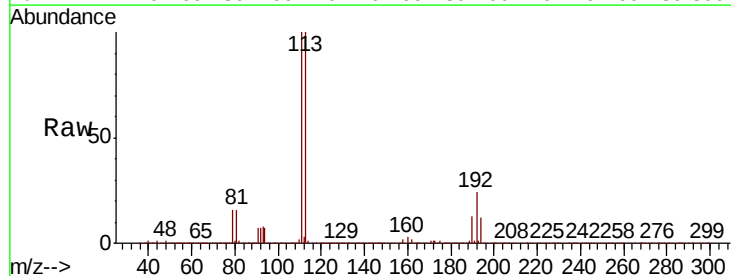
Tgt Ion:113 Resp: 312209

Ion Ratio Lower Upper

113 100

111 103.0 83.6 125.4

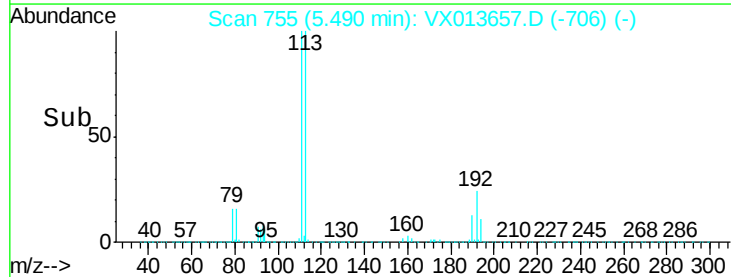
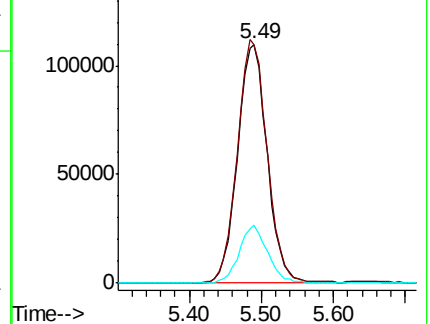
192 23.6 19.2 28.8

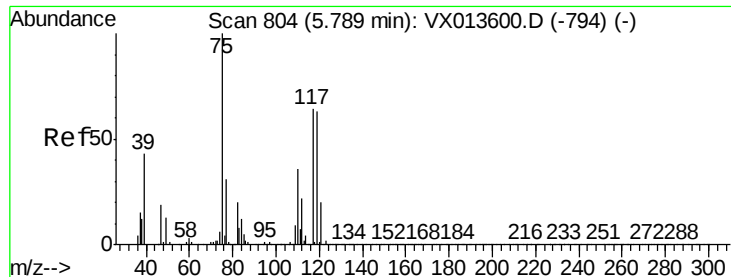


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

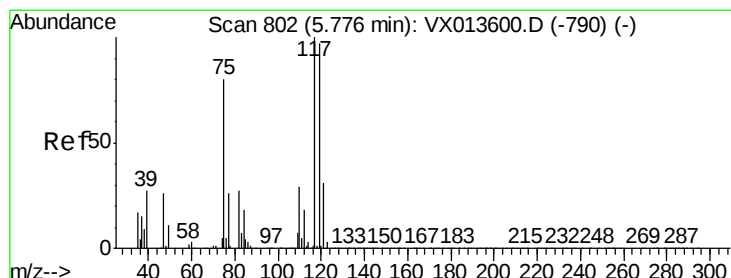
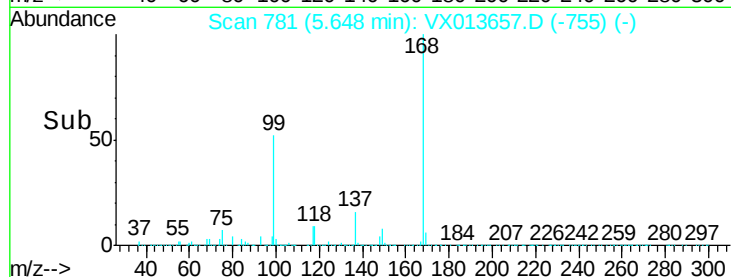
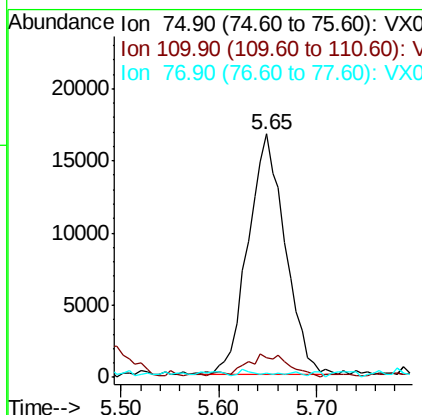
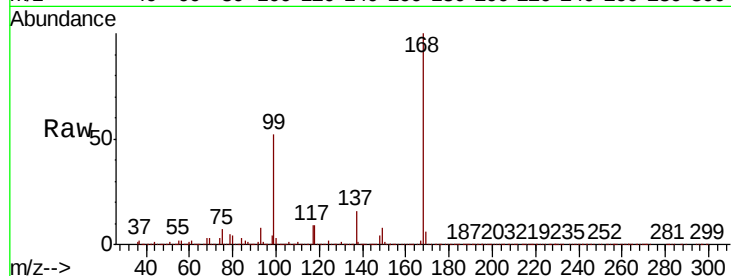




#36
 1,1-Dichloropropene
 Concen: 4.635 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013657.D
 Acq: 27 Nov 2019 17:24

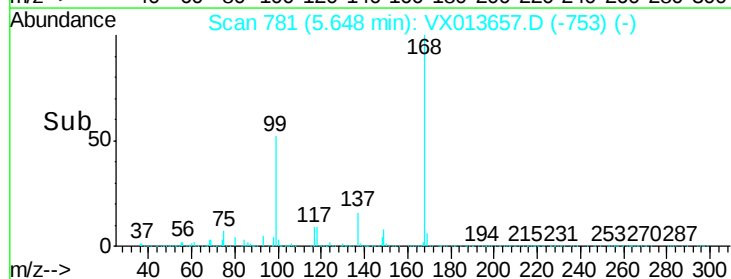
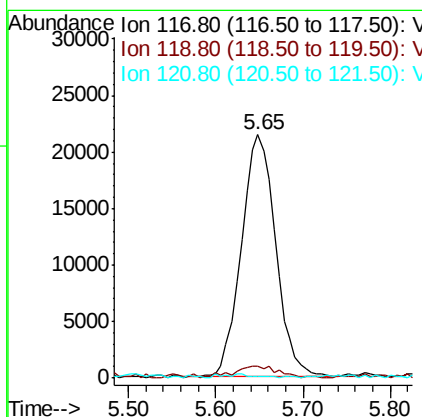
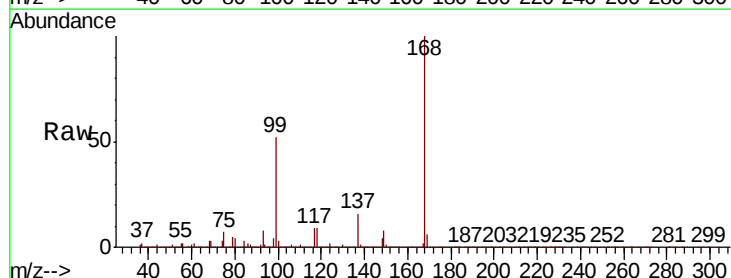
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 TB-01-20191120

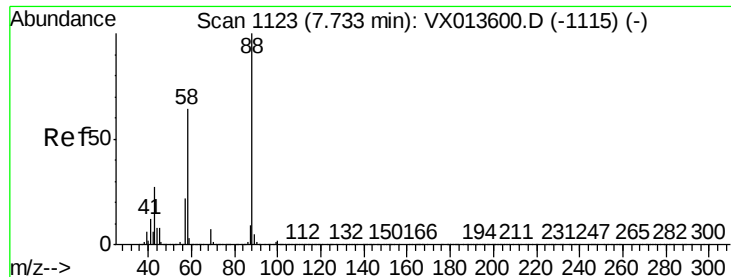
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	18.1	54.1#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.695 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013657.D
 Acq: 27 Nov 2019 17:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	77.5	116.3#
121	0.0	25.0	37.6#





#49

1,4-Dioxane

Concen: 1.294 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX013657.D

Acq: 27 Nov 2019 17:24

Instrument :

MSVOA_X

ClientSampleId :

TB-01-20191120

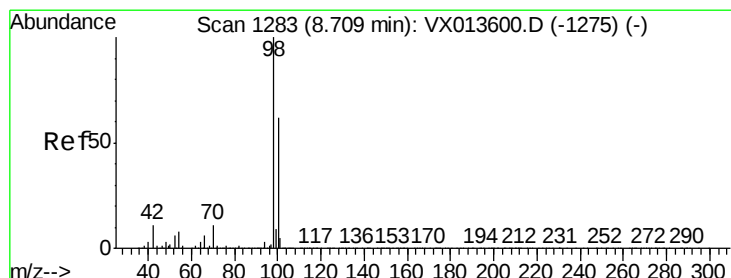
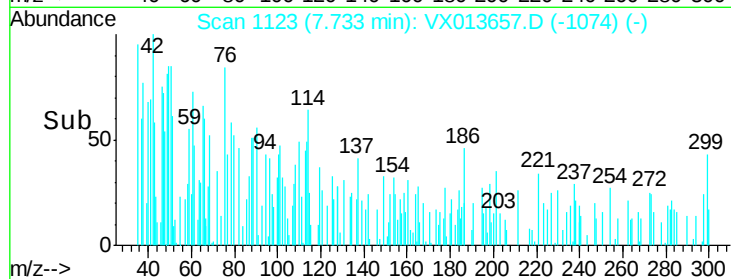
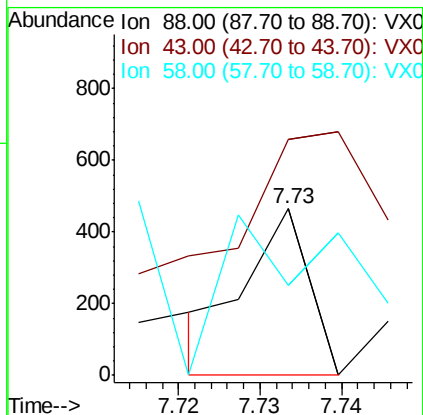
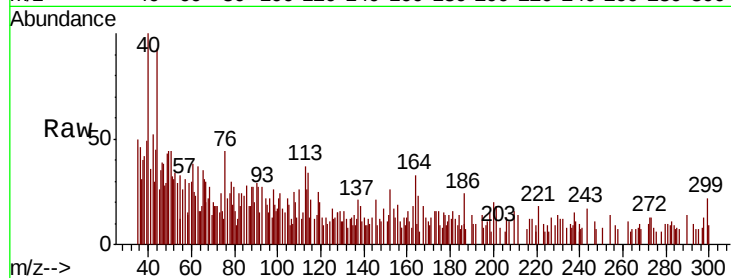
Tot Ion: 88 Resp: 247

Ion Ratio Lower Upper

88 100

43 327.5 25.8 38.6#

58 191.9 54.6 82.0#



#50

Toluene-d8

Concen: 49.097 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013657.D

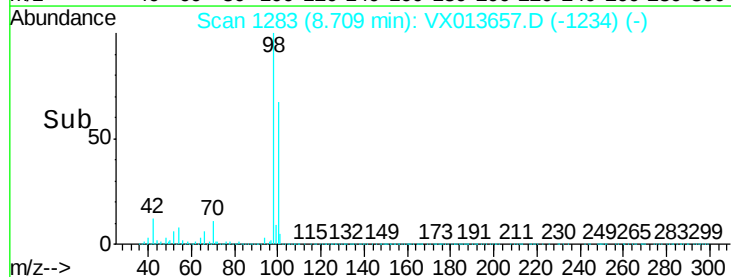
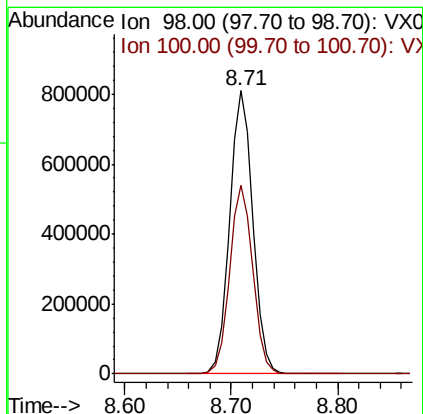
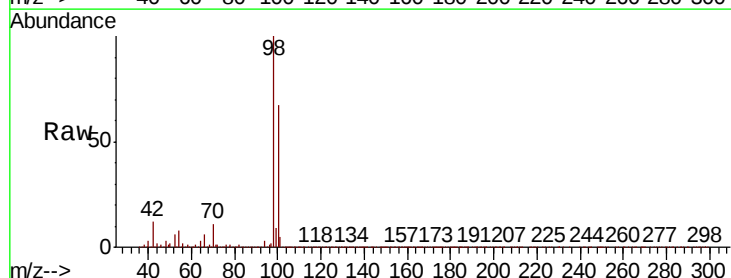
Acq: 27 Nov 2019 17:24

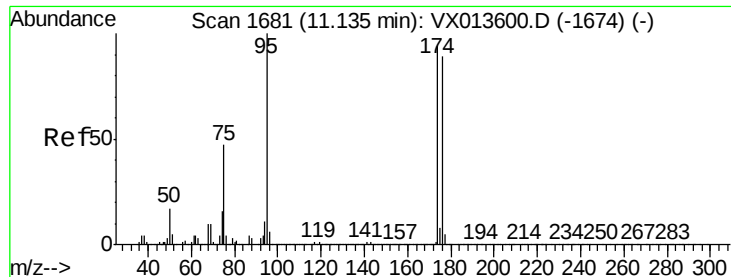
Tgt Ion: 98 Resp: 1238448

Ion Ratio Lower Upper

98 100

100 66.3 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 46.652 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013657.D

Acq: 27 Nov 2019 17:24

Instrument :

MSVOA_X

ClientSampleId :

TB-01-20191120

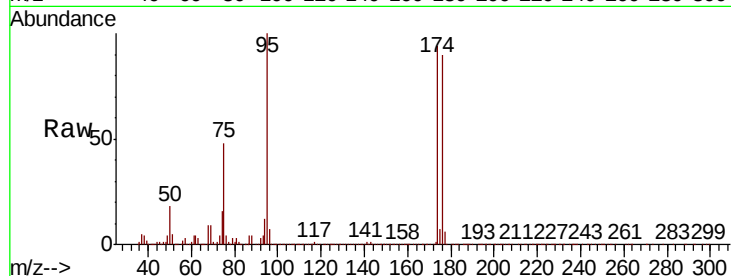
Tot Ion: 95 Resp: 424346

Ion Ratio Lower Upper

95 100

174 91.1 0.0 180.0

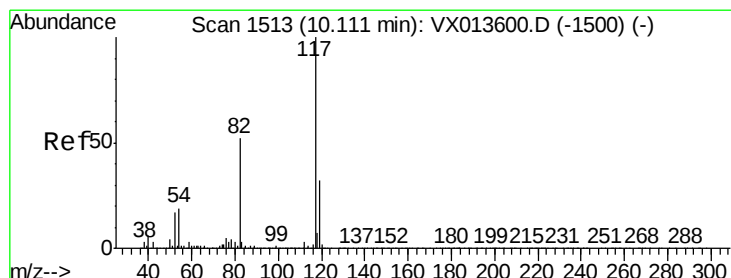
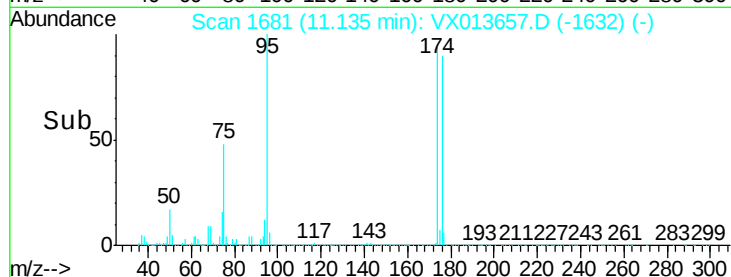
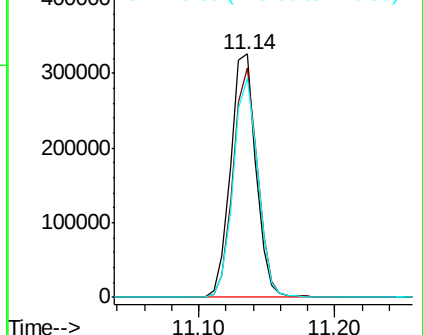
176 87.8 0.0 173.6



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: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013657.D

Acq: 27 Nov 2019 17:24

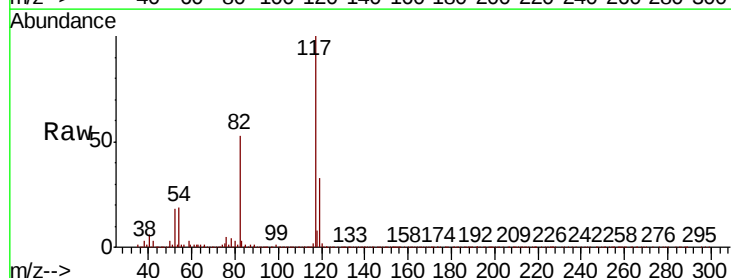
Tgt Ion: 117 Resp: 941830

Ion Ratio Lower Upper

117 100

82 52.5 41.8 62.8

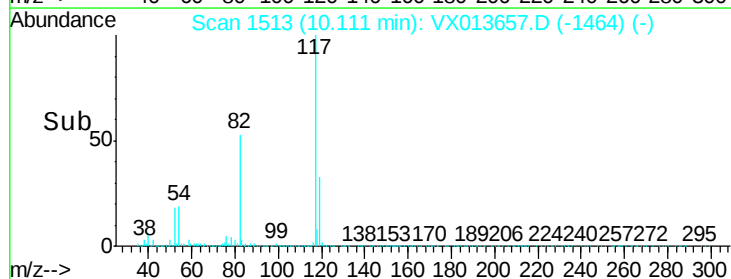
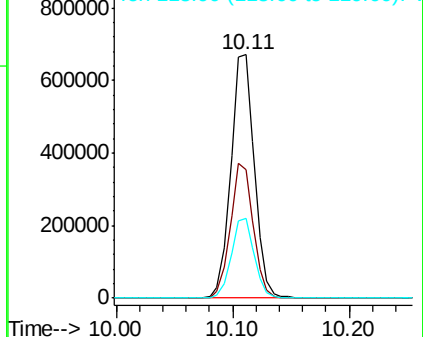
119 32.7 25.8 38.8

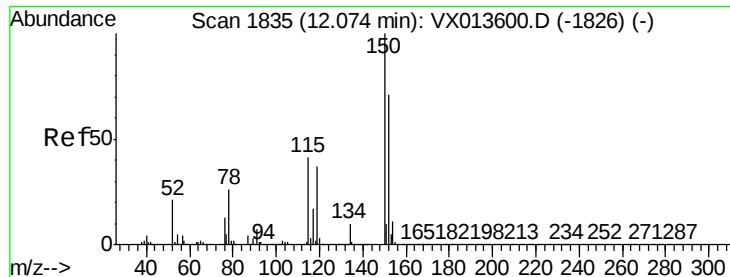


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



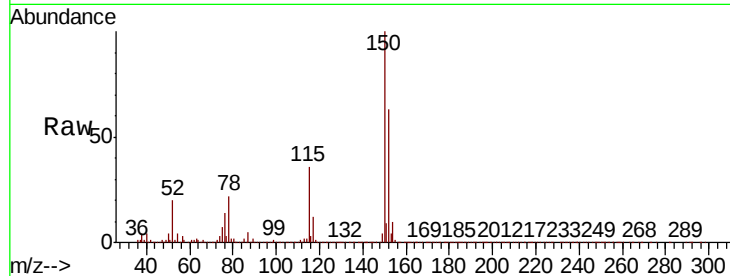


#72

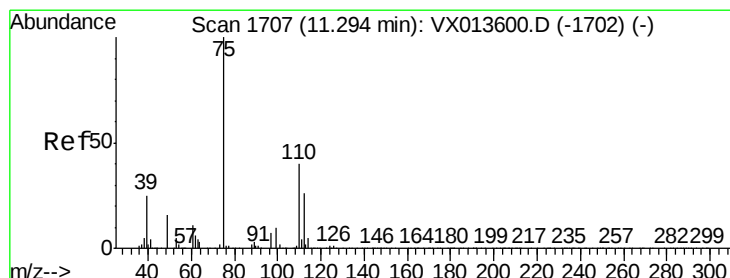
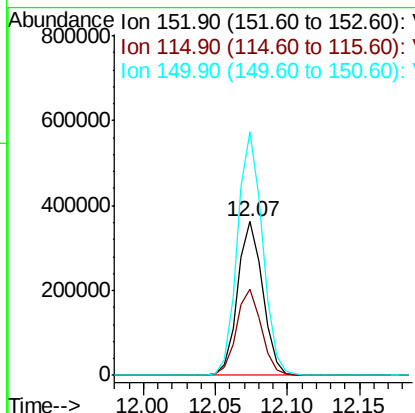
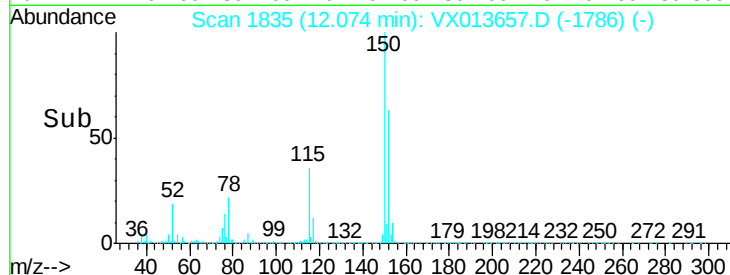
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

Instrument :
MSVOA_X
ClientSampleId :
TB-01-20191120

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.0	38.4	115.1
150	158.7	0.0	346.8



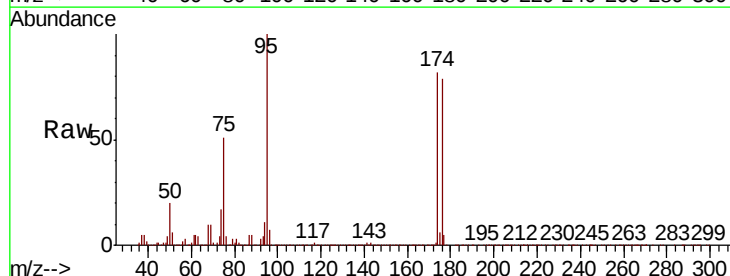
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



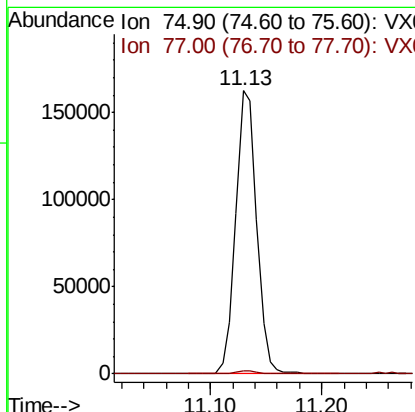
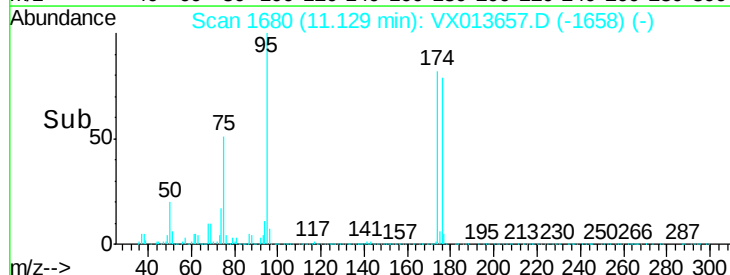
#76

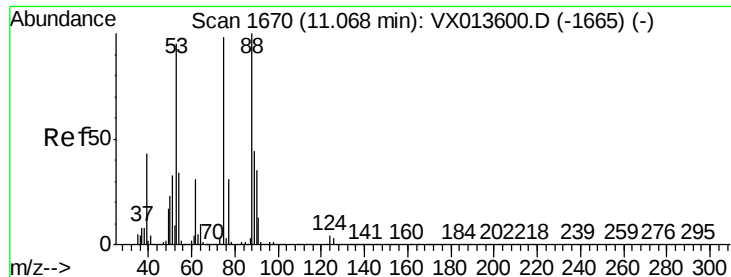
1,2,3-Trichloropropane
Concen: 21.330 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.7	19.1	57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

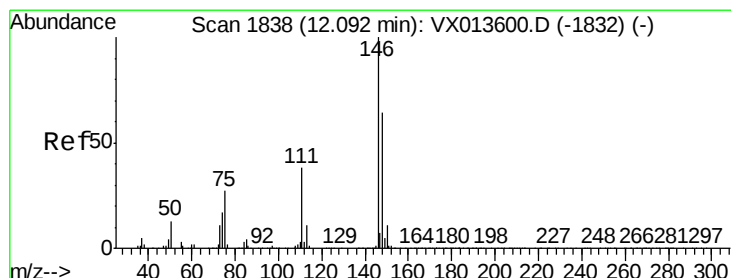
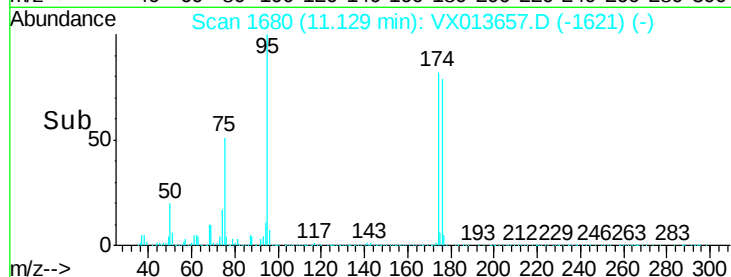
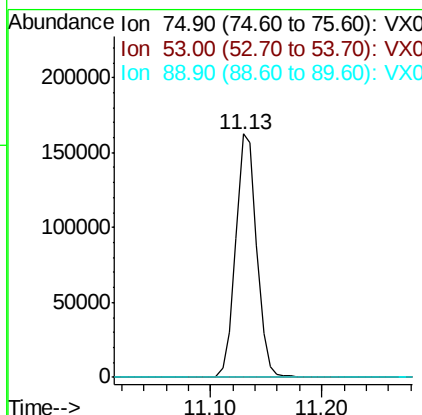
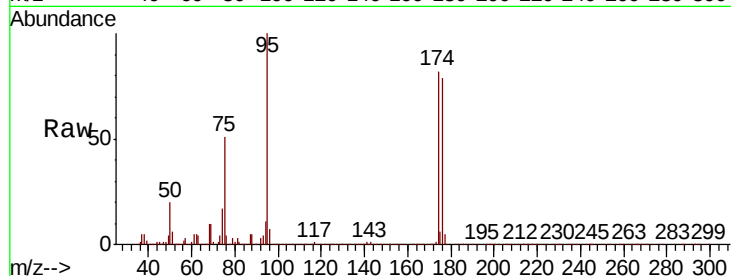




#81
trans-1,4-Dichloro-2-butene
Concen: 58.356 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

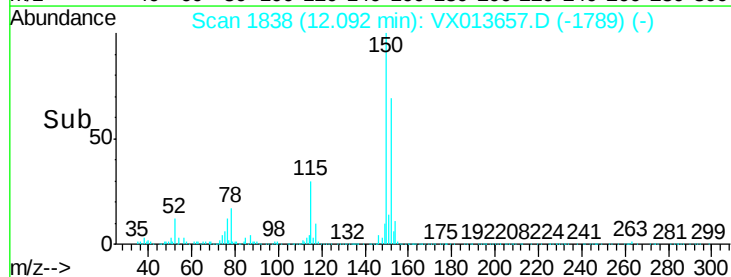
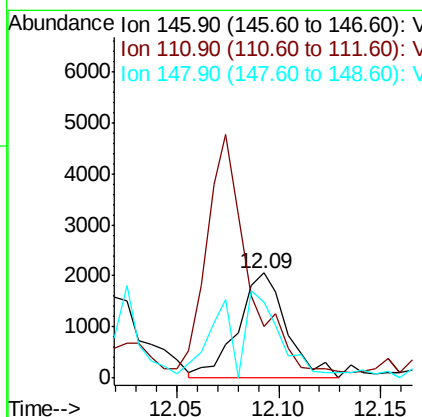
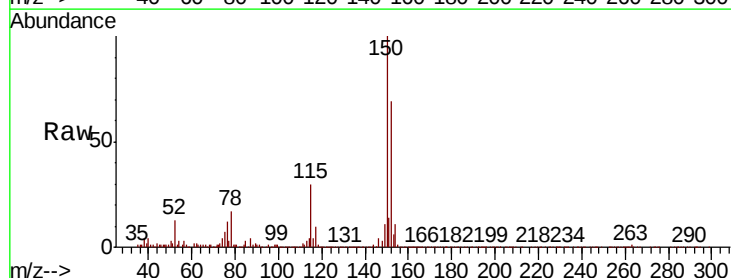
Instrument :
MSVOA_X
ClientSampleId :
TB-01-20191120

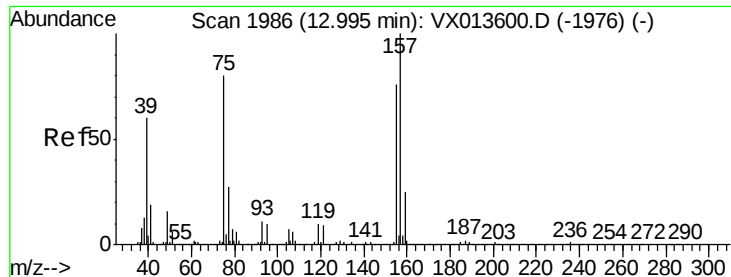
Tot Ion: 75 Resp: 211620
Ion Ratio Lower Upper
75 100
53 0.0 78.2 117.2#
89 0.0 35.4 53.2#



#88
1,4-Dichlorobenzene
Concen: 0.230 ug/l
RT: 12.09 min Scan# 1838
Delta R.T. 0.00 min
Lab File: VX013657.D
Acq: 27 Nov 2019 17:24

Tgt Ion: 146 Resp: 3416
Ion Ratio Lower Upper
146 100
111 0.0 18.9 56.9#
148 57.4 31.9 95.5





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.277 ug/l

RT: 12.99 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VX013657.D

Acq: 27 Nov 2019 17:24

Instrument :

MSVOA_X

ClientSampleId :

TB-01-20191120

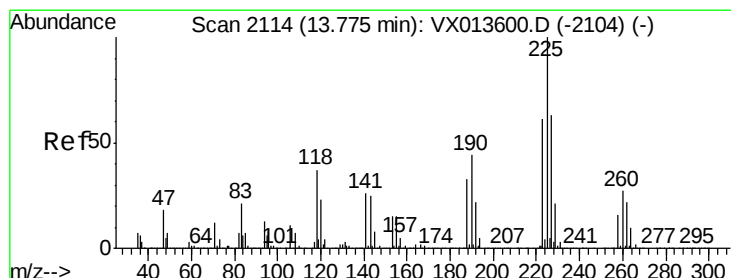
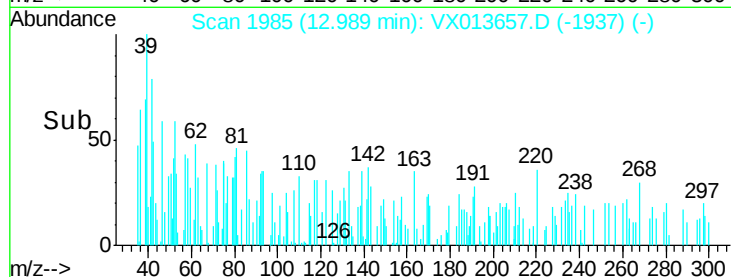
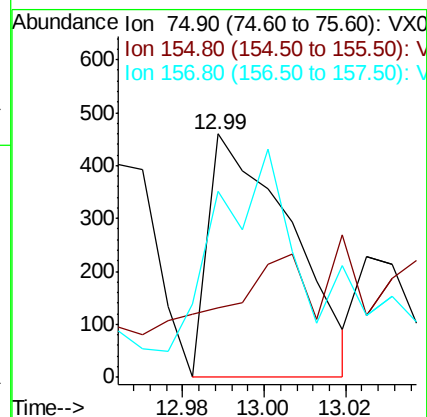
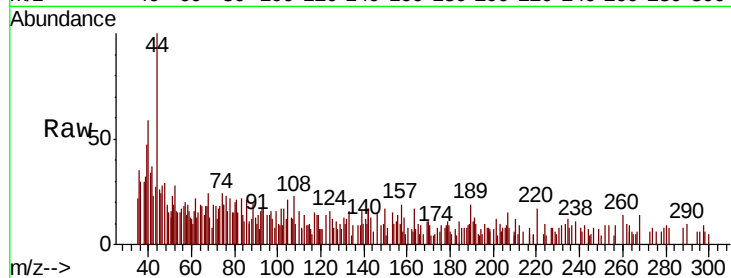
Tot Ion: 75 Resp: 648

Ion Ratio Lower Upper

75 100

155 27.5 47.6 142.8#

157 120.1 62.1 186.2



#94

Hexachlorobutadiene

Concen: 0.305 ug/l

RT: 13.78 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VX013657.D

Acq: 27 Nov 2019 17:24

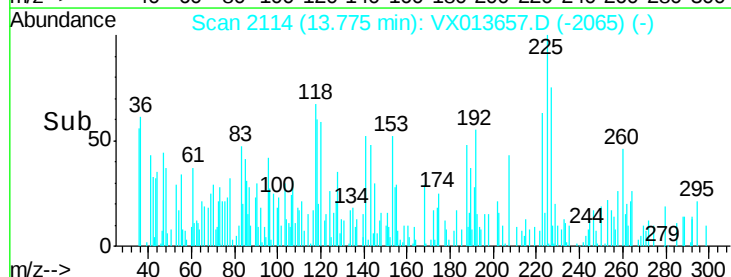
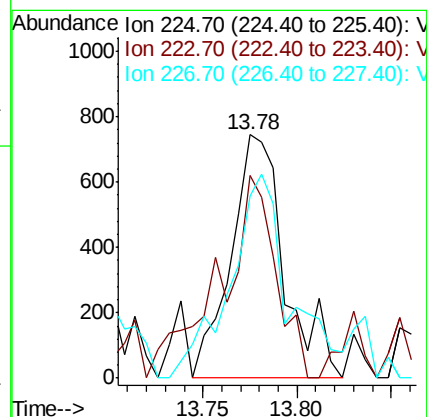
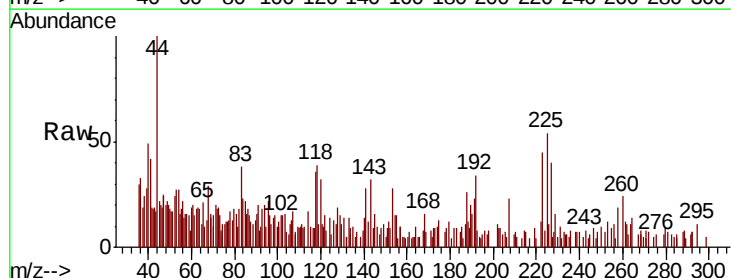
Tgt Ion: 225 Resp: 1471

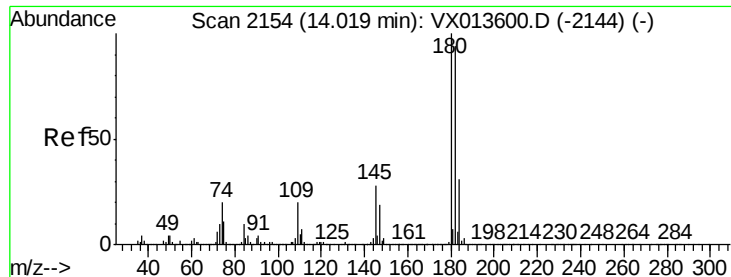
Ion Ratio Lower Upper

225 100

223 88.2 31.9 95.5

227 92.7 32.1 96.3





#96
 1,2,3-Trichlorobenzene
 Concen: 0.225 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VX013657.D
 Acq: 27 Nov 2019 17:24

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-20191120

Tot Ion	Ratio	Lower	Upper
180	100		
182	120.9	47.6	142.8
145	42.2	15.0	45.0

