

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013671.D
 Acq On : 27 Nov 2019 23:37
 Operator : JC/SP
 Sample : K6008-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20191121

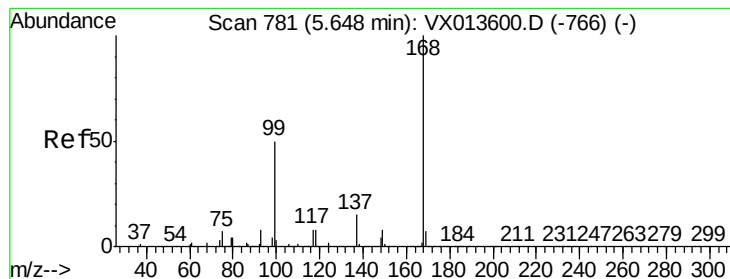
Quant Time: Nov 28 04:20:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	662280	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1032175	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	929475	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	411849	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	379004	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
35) Dibromofluoromethane	5.48	113	306890	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
50) Toluene-d8	8.71	98	1227183	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
62) 4-Bromofluorobenzene	11.14	95	411630	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	2940	0.470	ug/l #	70
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1267	0.201	ug/l #	69
10) Methyl Iodide	2.51	142	2995	0.392	ug/l #	96
11) Tert butyl alcohol	3.01	59	5965	3.144	ug/l #	88
13) Acrolein	2.26	56	656	6.508	ug/l #	68
15) Acrylonitrile	3.14	53	1484	0.379	ug/l #	17
16) Acetone	2.43	43	7036	1.854	ug/l #	73
17) Carbon Disulfide	2.56	76	4827	0.269	ug/l	99
20) Methylene Chloride	2.84	84	2815	0.386	ug/l #	74
25) 2-Butanone	4.68	43	3498	0.620	ug/l #	74
29) Tetrahydrofuran	5.12	42	840	0.242	ug/l #	46
36) 1,1-Dichloropropene	5.65	75	44247	4.722	ug/l #	52
38) Carbon Tetrachloride	5.65	117	56491	6.539	ug/l #	16
46) Dibromomethane	7.66	93	1037	0.214	ug/l #	40
49) 1,4-Dioxane	7.75	88	475	2.524	ug/l #	72
64) Tetrachloroethene	9.32	164	1622	0.234	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	202168	21.825	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	202168	59.709	ug/l #	11
88) 1,4-Dichlorobenzene	12.09	146	2900	0.209	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.65	180	2391	0.255	ug/l	88
96) 1,2,3-Trichlorobenzene	14.02	180	2193	0.236	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampled :

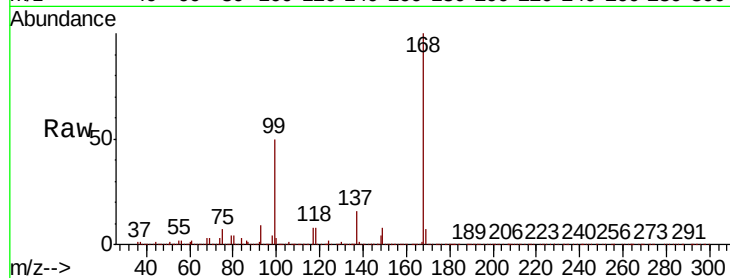
TB-20191121

Tot Ion:168 Resp: 662280

Ion Ratio Lower Upper

168 100

99 49.7 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

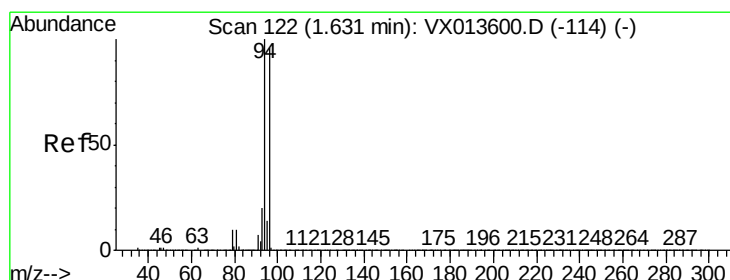
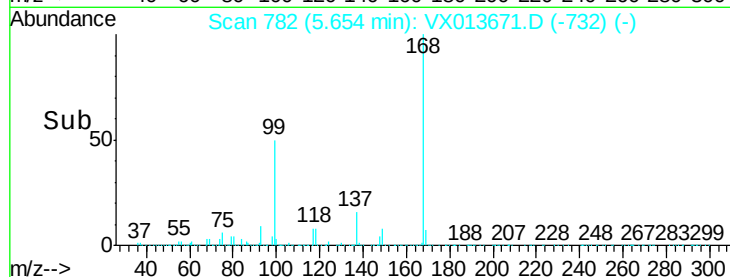
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.470 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013671.D

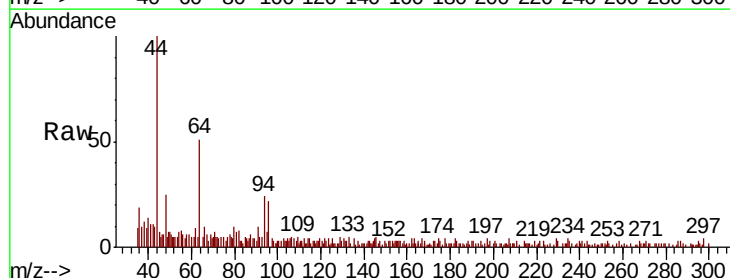
Acq: 27 Nov 2019 23:37

Tgt Ion: 94 Resp: 2940

Ion Ratio Lower Upper

94 100

96 67.2 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

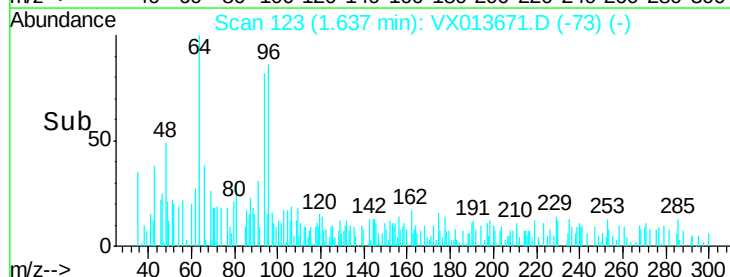
1500

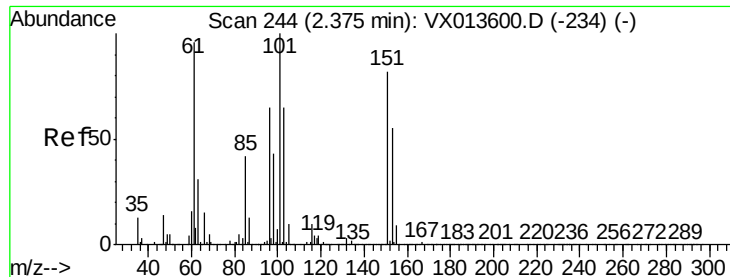
1000

500

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.201 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampled :

TB-20191121

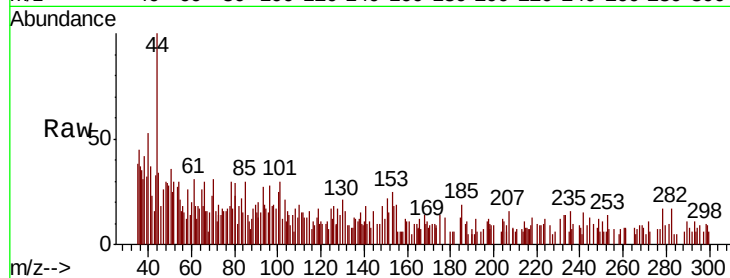
Tot Ion:101 Resp: 1267

Ion Ratio Lower Upper

101 100

85 57.0 33.9 50.9#

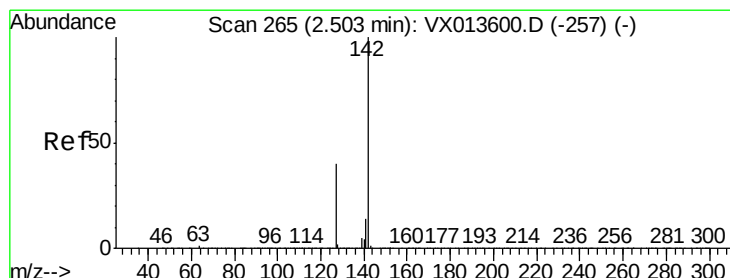
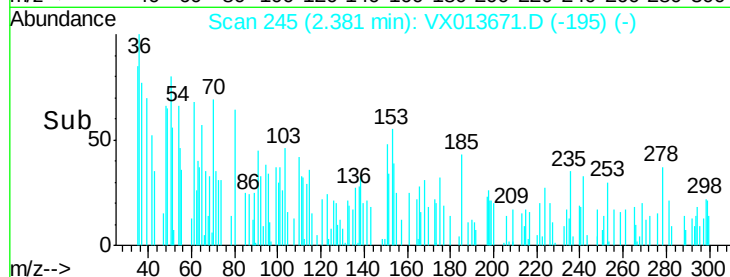
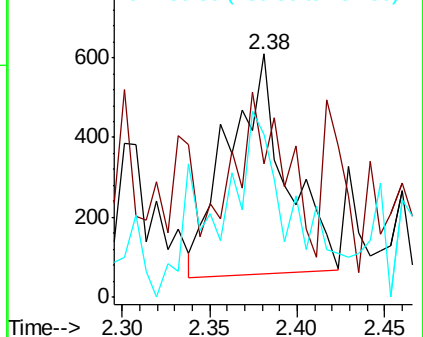
151 49.6 64.2 96.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.392 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

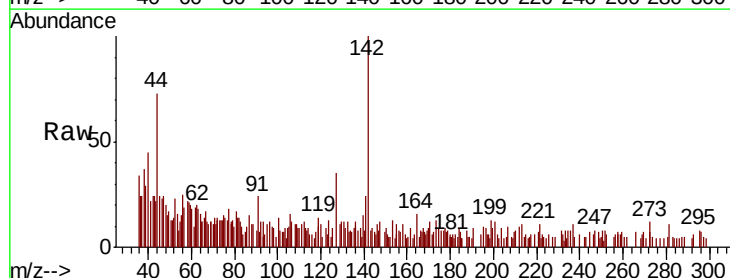
Tgt Ion:142 Resp: 2995

Ion Ratio Lower Upper

142 100

127 36.9 31.0 46.4

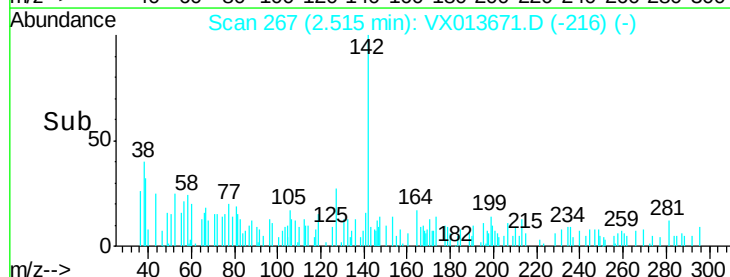
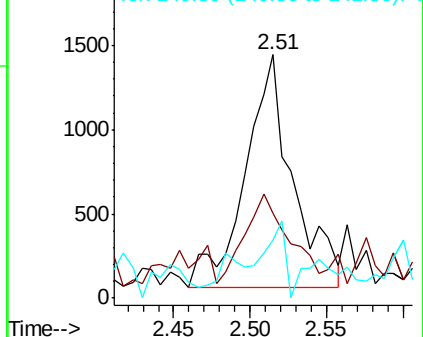
141 17.7 11.6 17.4#

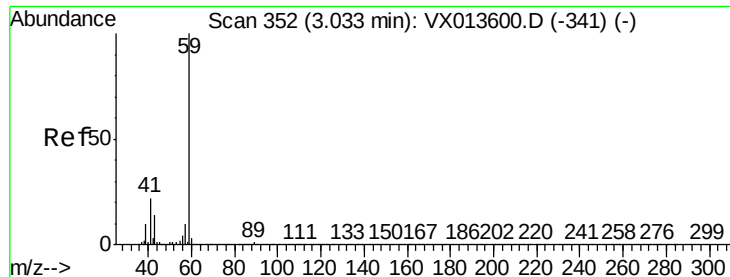


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



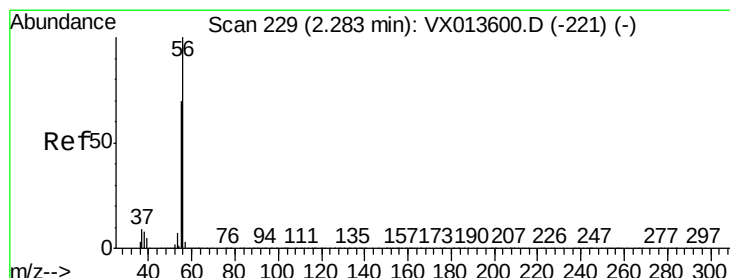
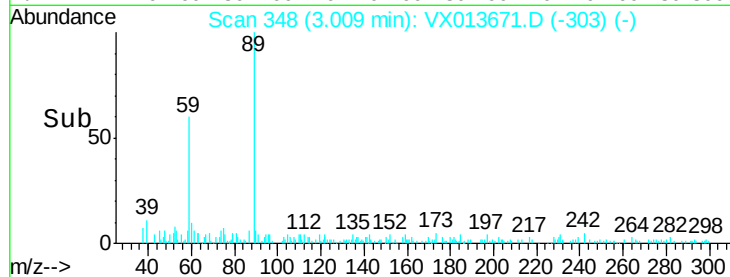
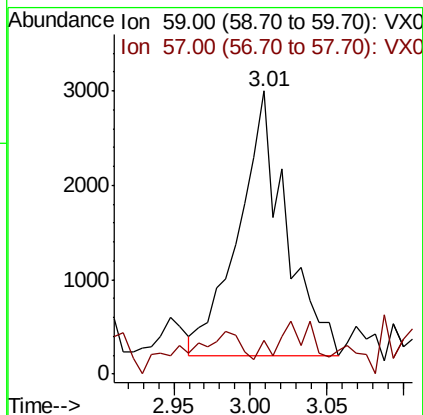
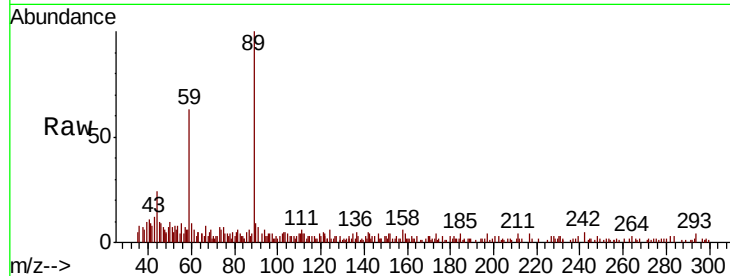


#11

Tert butyl alcohol
Concen: 3.144 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

Instrument :
MSVOA_X
ClientSampleId :
TB-20191121

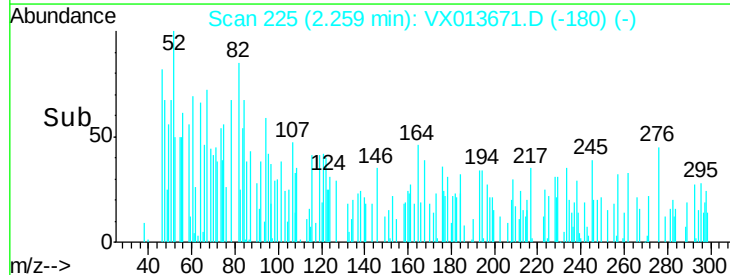
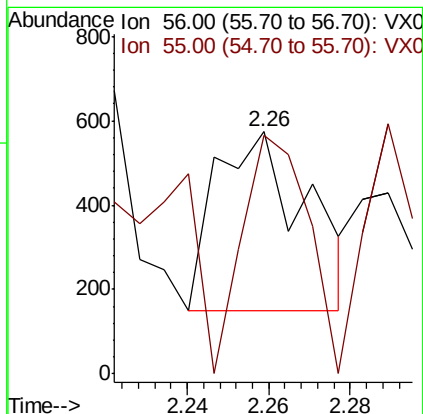
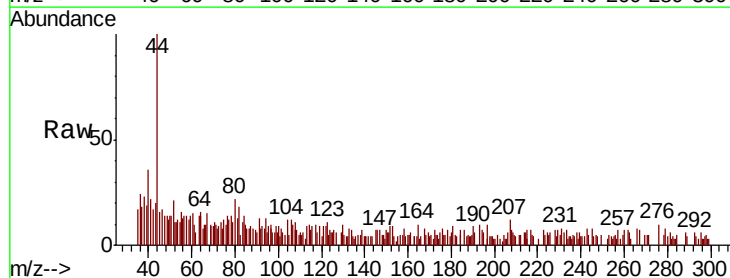
Tot Ion: 59 Resp: 5965
Ion Ratio Lower Upper
59 100
57 14.3 7.8 11.6#

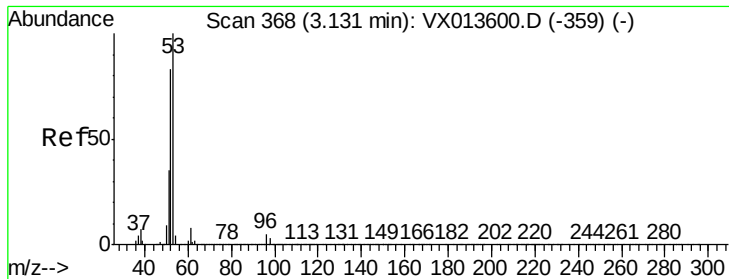


#13

Acrolein
Concen: 6.508 ug/l
RT: 2.26 min Scan# 225
Delta R.T. -0.02 min
Lab File: VX013671.D
Acq: 27 Nov 2019 23:37

Tgt Ion: 56 Resp: 656
Ion Ratio Lower Upper
56 100
55 96.6 56.2 84.4#





#15

Acrylonitrile

Concen: 0.379 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampleId :

TB-20191121

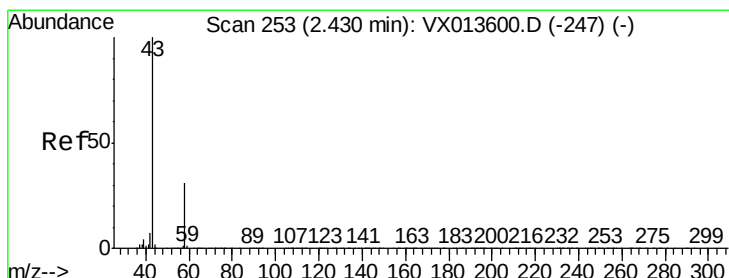
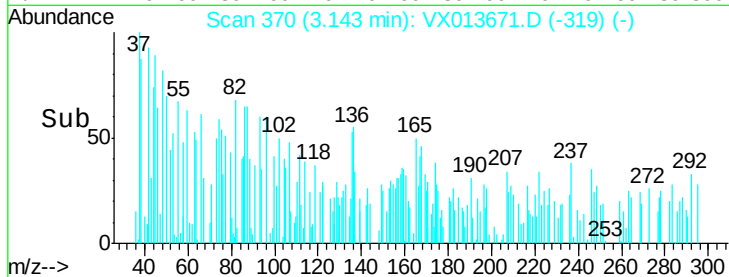
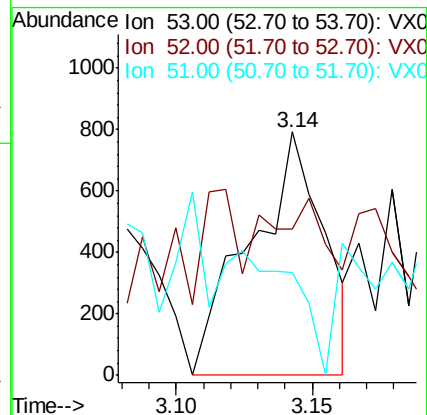
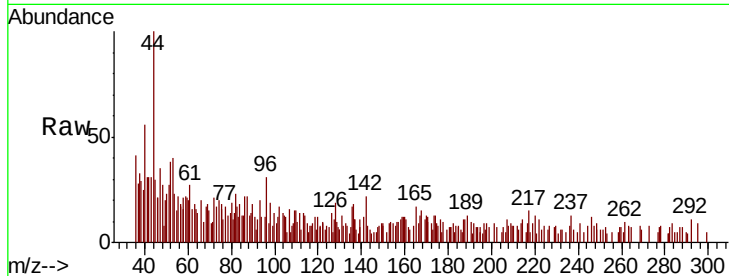
Tot Ion: 53 Resp: 1484

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 0.0 29.0 43.6#



#16

Acetone

Concen: 1.854 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013671.D

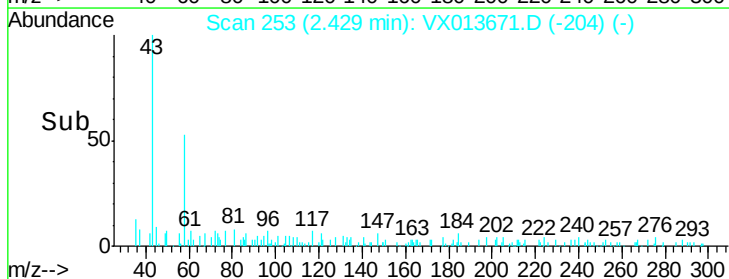
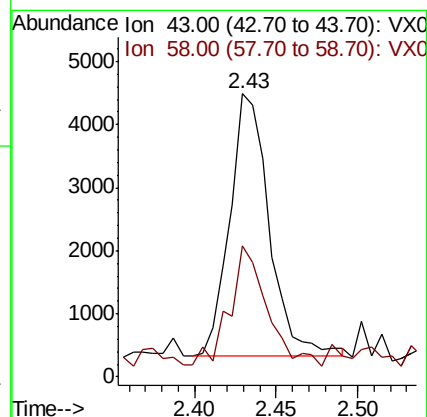
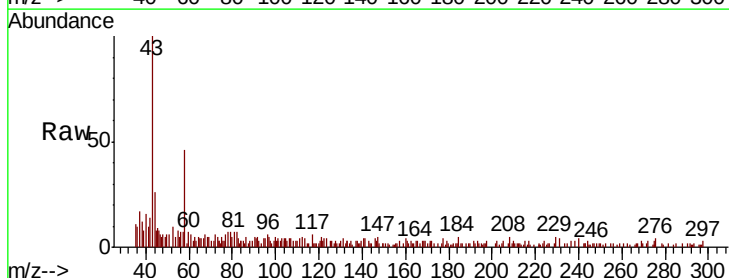
Acq: 27 Nov 2019 23:37

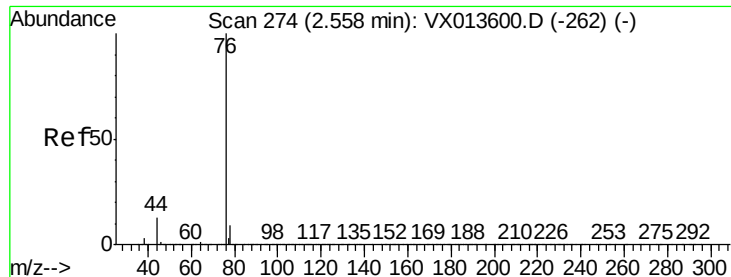
Tgt Ion: 43 Resp: 7036

Ion Ratio Lower Upper

43 100

58 45.3 24.6 36.8#





#17

Carbon Disulfide

Concen: 0.269 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampleId :

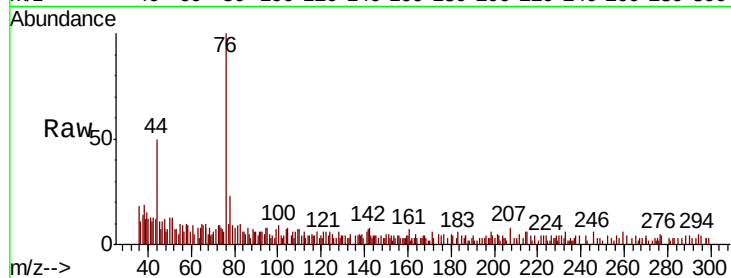
TB-20191121

Tot Ion: 76 Resp: 4827

Ion Ratio Lower Upper

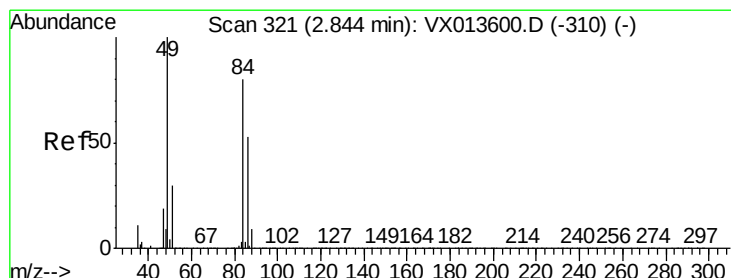
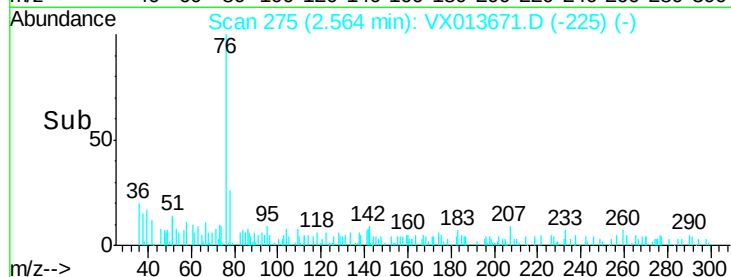
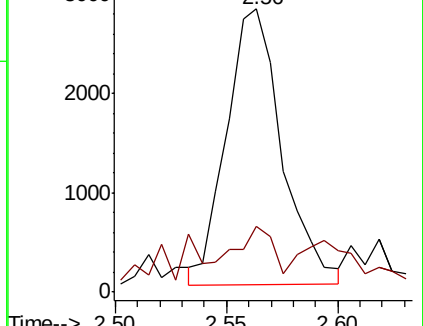
76 100

78 9.5 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.386 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Tgt Ion: 84 Resp: 2815

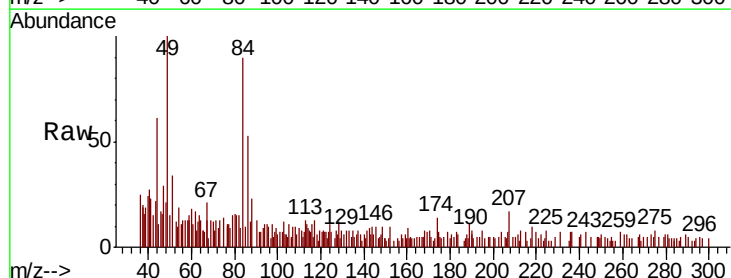
Ion Ratio Lower Upper

84 100

49 96.8 99.7 149.5#

51 16.9 29.9 44.9#

86 45.0 52.2 78.4#

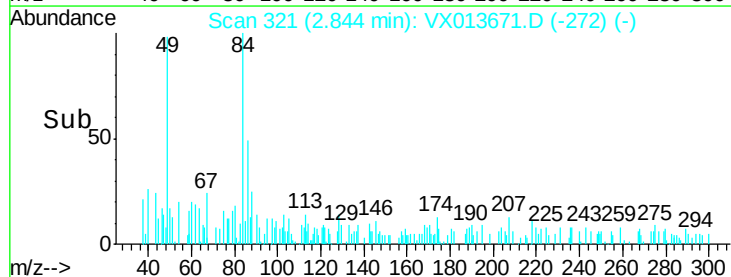
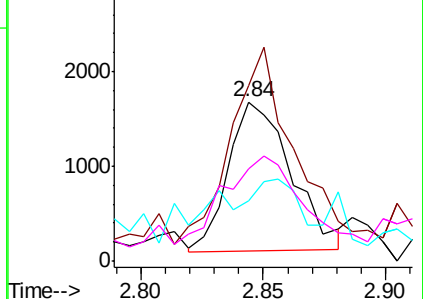


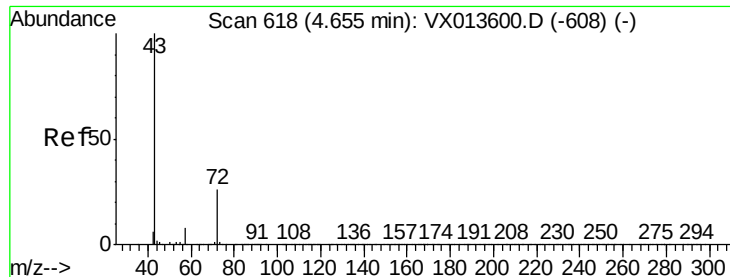
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.620 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampled :

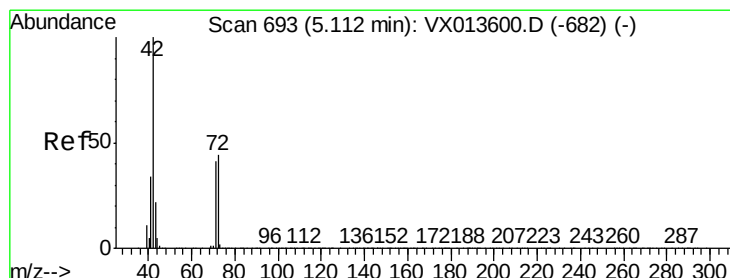
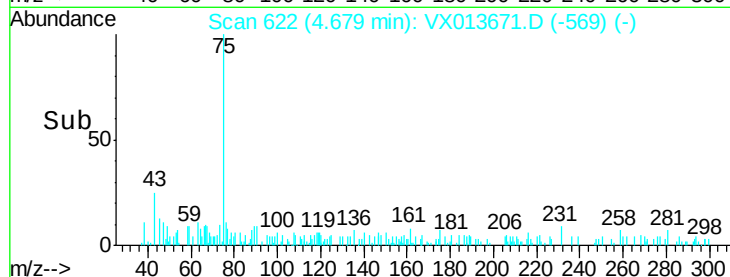
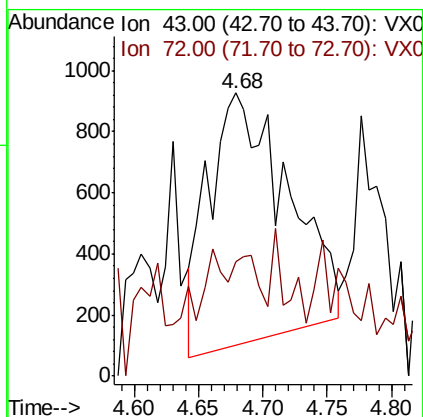
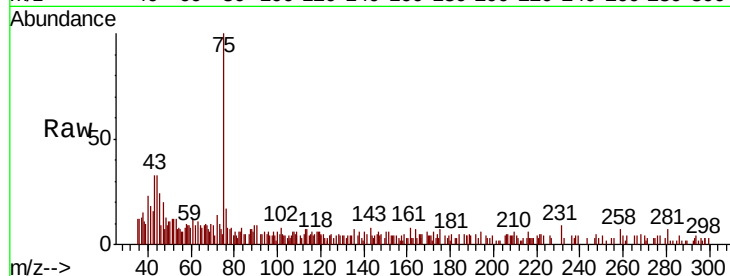
TB-20191121

Tot Ion: 43 Resp: 3498

Ion Ratio Lower Upper

43 100

72 12.5 20.6 31.0#



#29

Tetrahydrofuran

Concen: 0.242 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

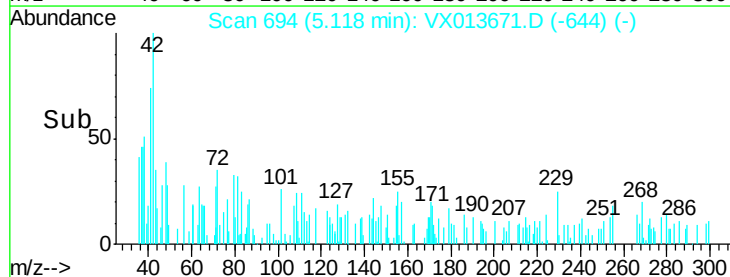
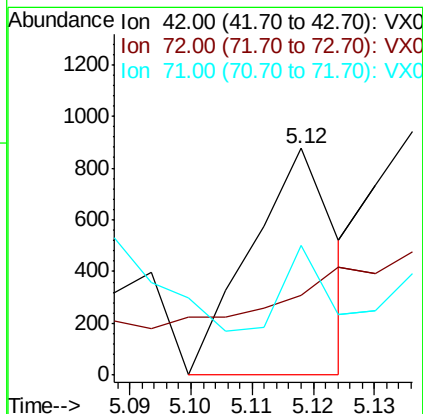
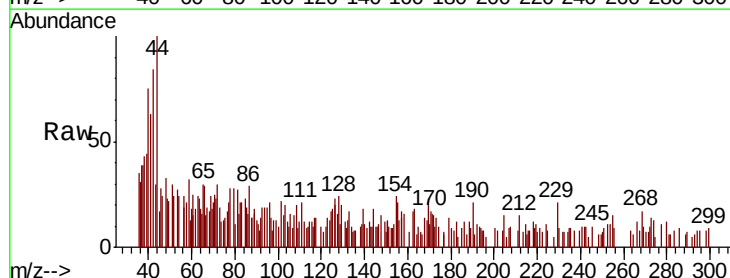
Tgt Ion: 42 Resp: 840

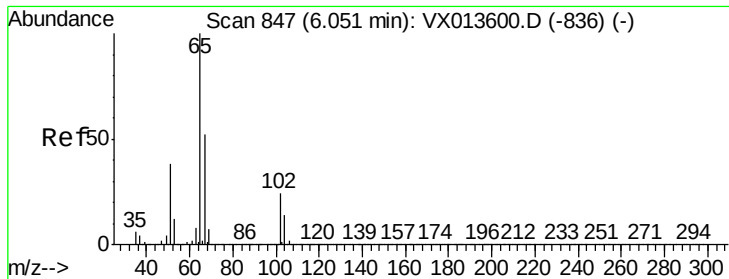
Ion Ratio Lower Upper

42 100

72 0.0 36.3 54.5#

71 18.0 33.2 49.8#

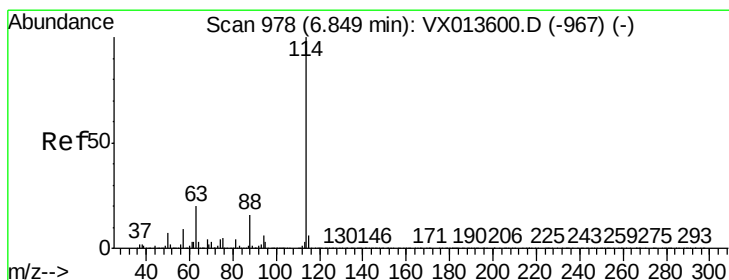
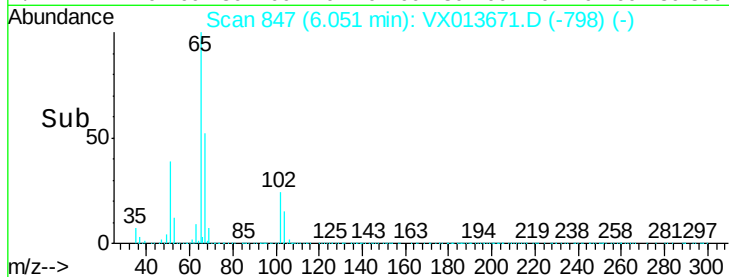
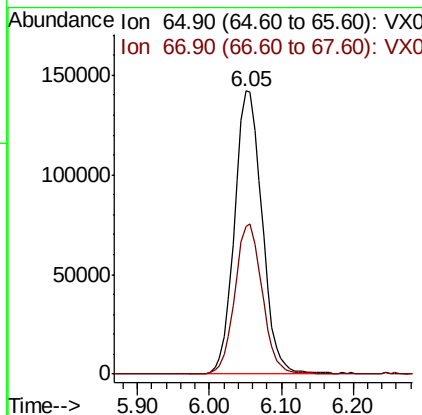
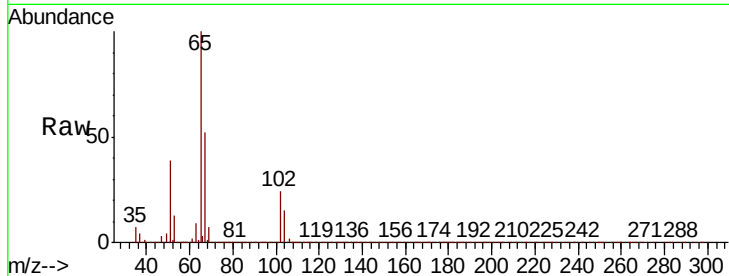




#33
 1,2-Dichloroethane-d4
 Concen: 49.301 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013671.D
 Acq: 27 Nov 2019 23:37

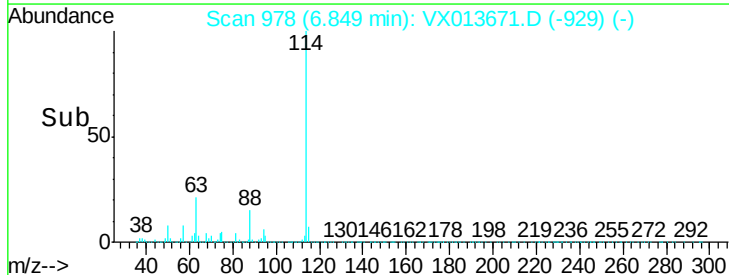
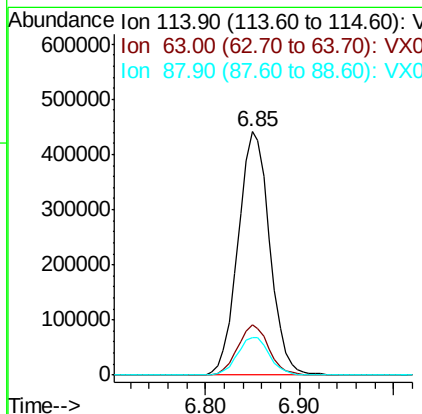
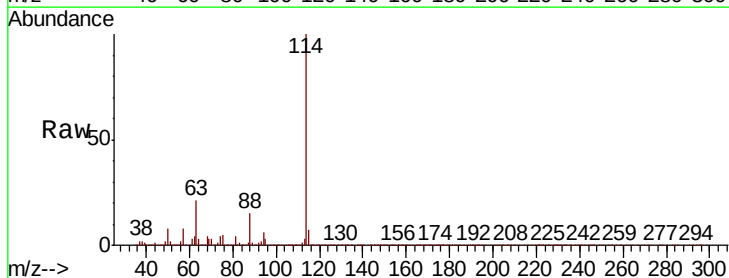
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20191121

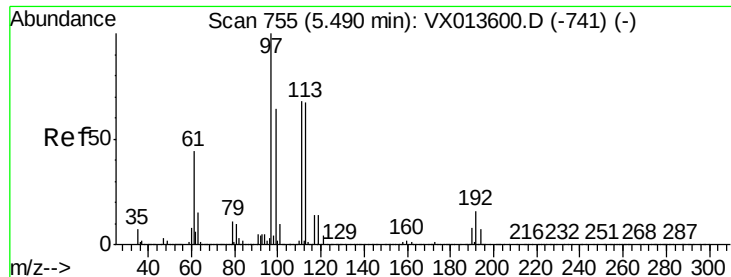
Tot Ion: 65 Resp: 379004
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013671.D
 Acq: 27 Nov 2019 23:37

Tgt Ion: 114 Resp: 1032175
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 39.6
 88 15.4 0.0 31.4

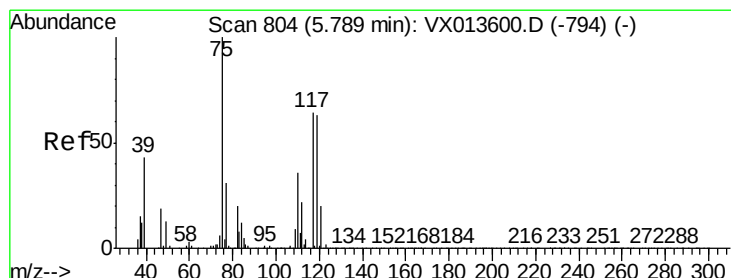
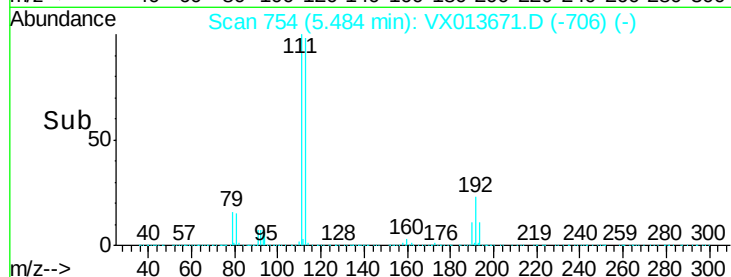
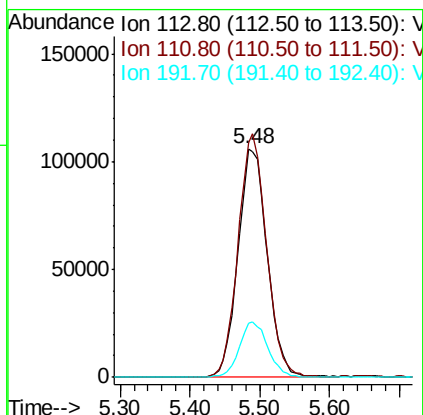
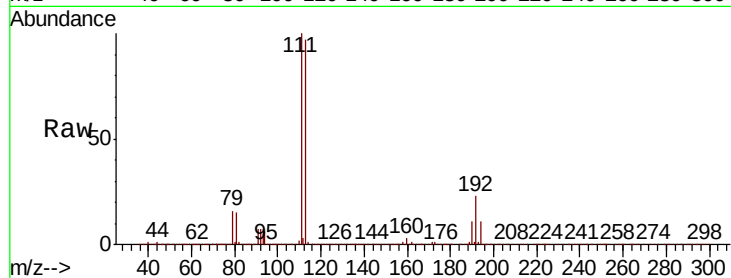




#35
 Dibromofluoromethane
 Concen: 48.094 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX013671.D
 Acq: 27 Nov 2019 23:37

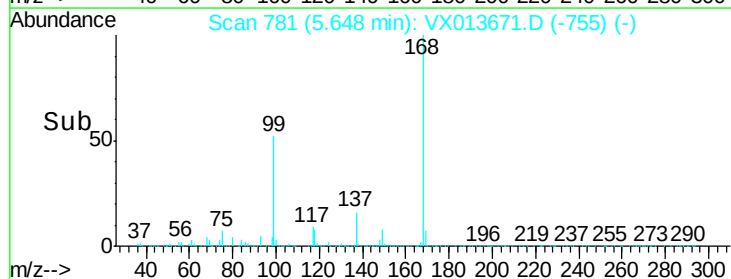
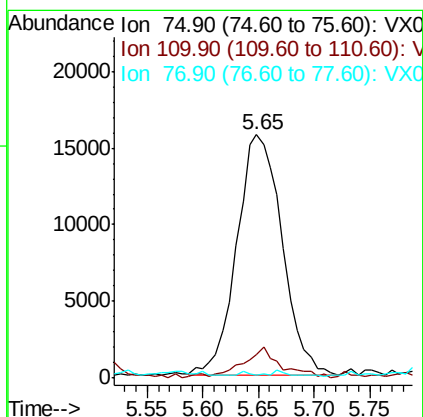
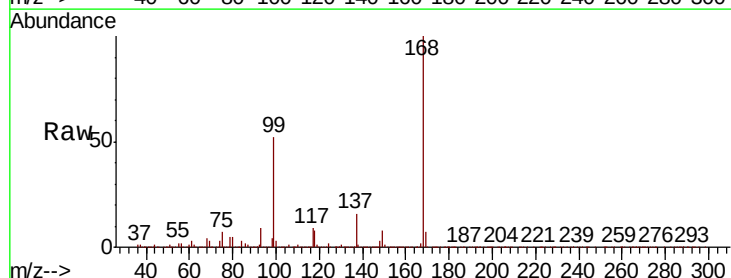
Instrument :
 MSVOA_X
 ClientSampled :
 TB-20191121

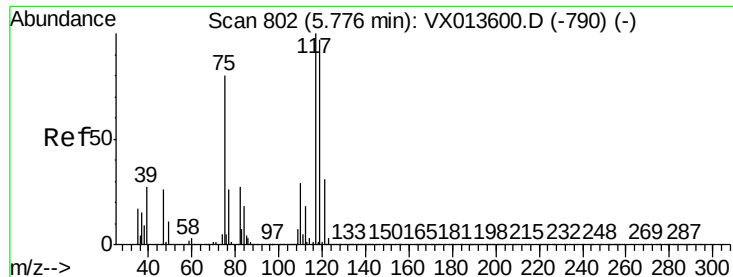
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.6	125.4
192	23.7	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.722 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013671.D
 Acq: 27 Nov 2019 23:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.1	54.1#
77	1.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.539 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampled :

TB-20191121

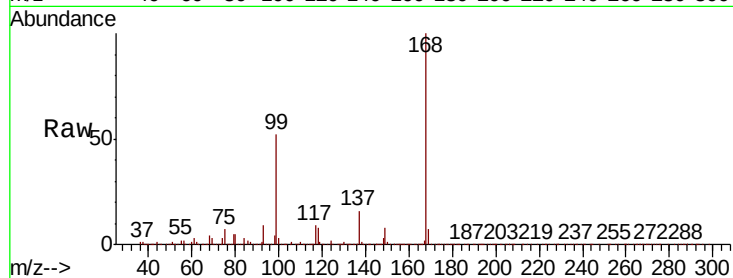
Tot Ion:117 Resp: 56491

Ion Ratio Lower Upper

117 100

119 5.2 77.5 116.3#

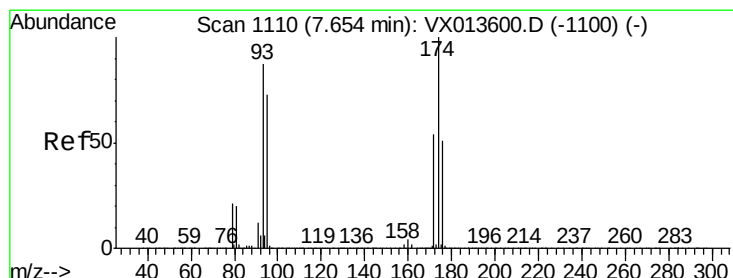
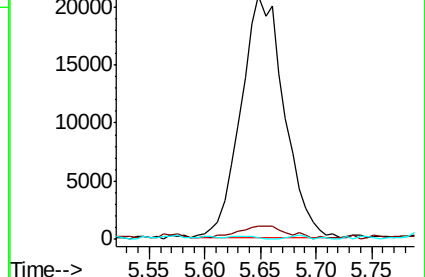
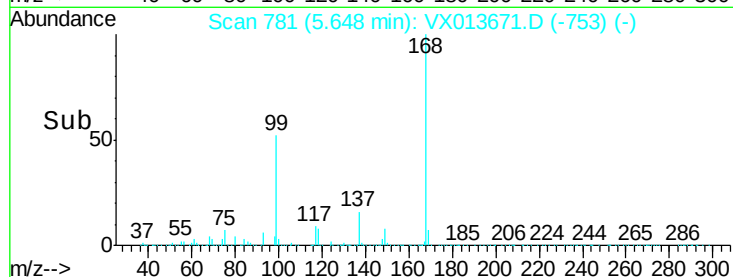
121 0.1 25.0 37.6#



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



#46

Dibromomethane

Concen: 0.214 ug/l

RT: 7.66 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

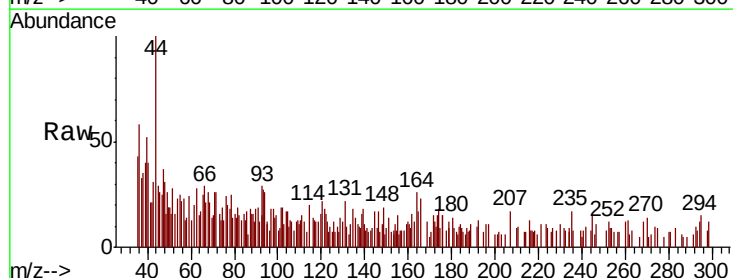
Tgt Ion: 93 Resp: 1037

Ion Ratio Lower Upper

93 100

95 40.4 66.2 99.2#

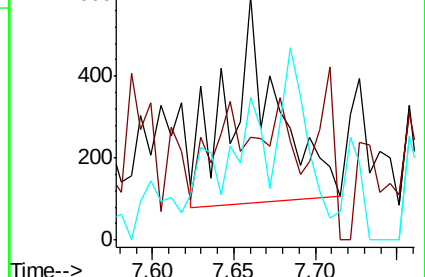
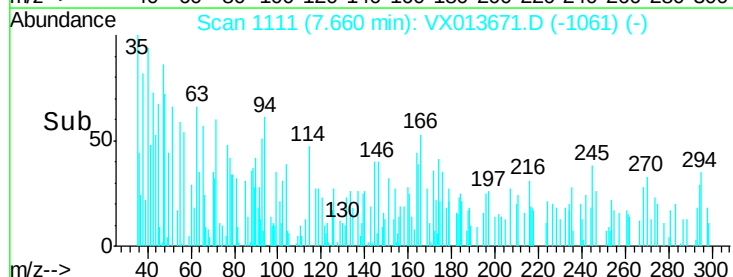
174 41.0 93.4 140.0#

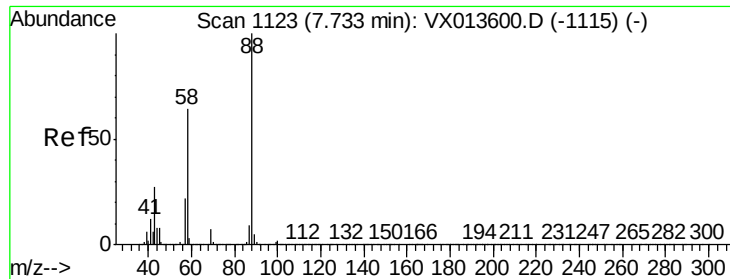


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#49

1,4-Dioxane

Concen: 2.524 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

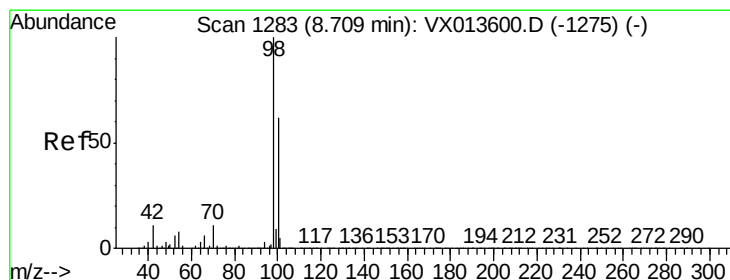
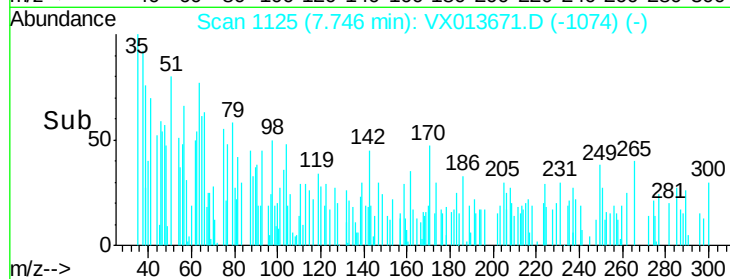
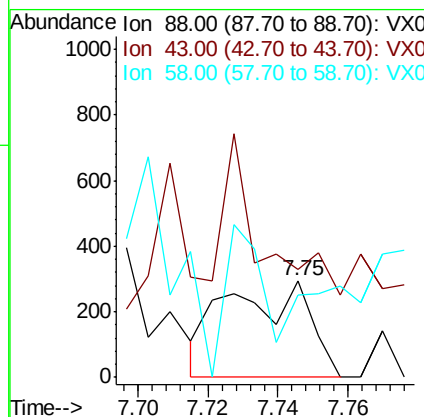
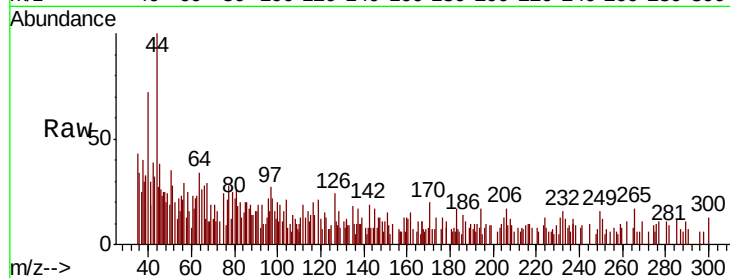
MSVOA_X

ClientSampleId :

TB-20191121

Tot Ion: 88 Resp: 475

Ion	Ratio	Lower	Upper
88	100		
43	72.8	25.8	38.6#
58	74.3	54.6	82.0



#50

Toluene-d8

Concen: 49.361 ug/l

RT: 8.71 min Scan# 1283

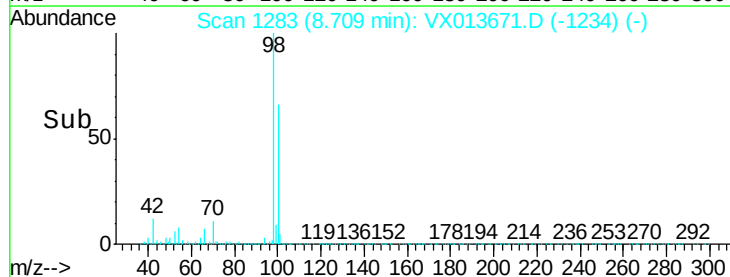
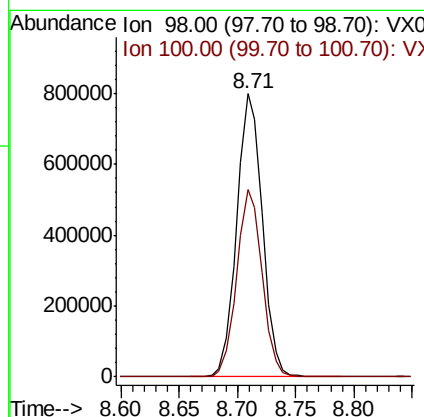
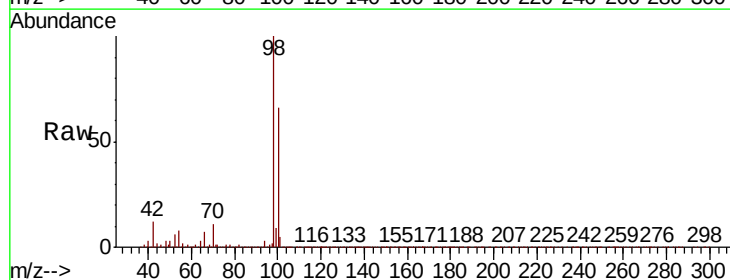
Delta R.T. -0.00 min

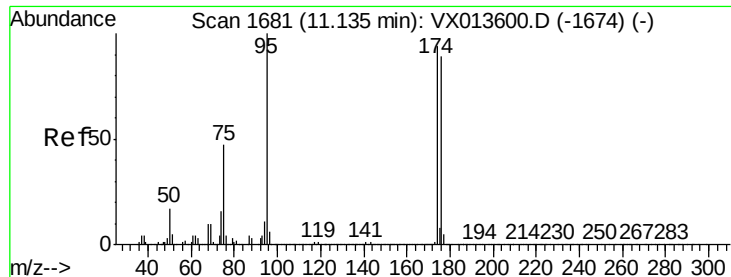
Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Tgt Ion: 98 Resp: 1227183

Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.1	79.7





#62

4-Bromofluorobenzene

Concen: 45.915 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampleId :

TB-20191121

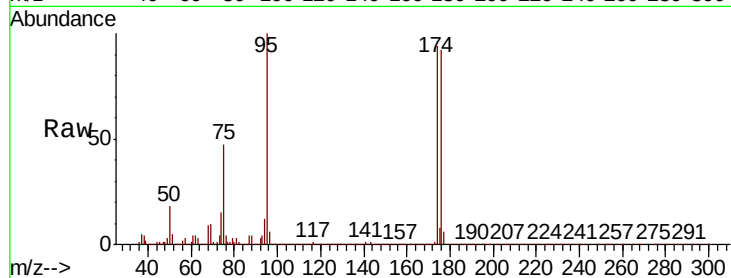
Tot Ion: 95 Resp: 411630

Ion Ratio Lower Upper

95 100

174 90.0 0.0 180.0

176 87.9 0.0 173.6

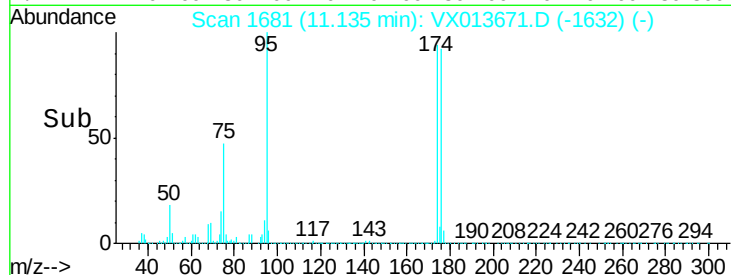


Abundance Ion 94.90 (94.60 to 95.60): VX0

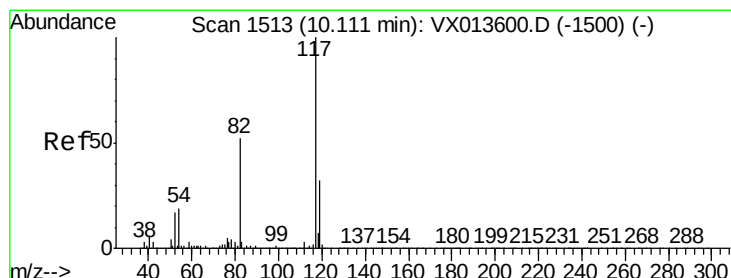
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

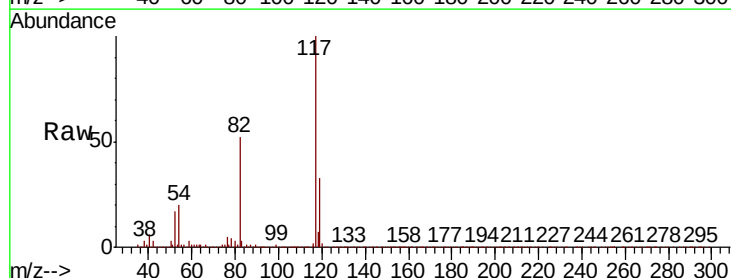
Tgt Ion: 117 Resp: 929475

Ion Ratio Lower Upper

117 100

82 52.3 41.8 62.8

119 32.6 25.8 38.8

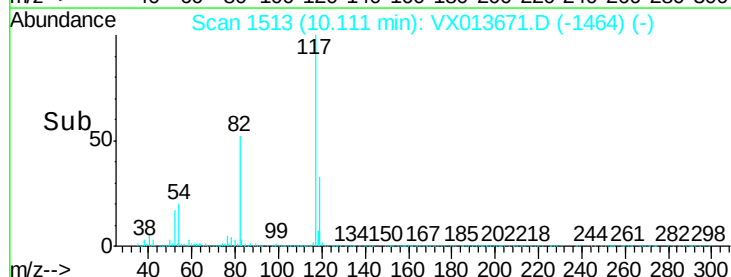


Abundance Ion 116.90 (116.60 to 117.60): V

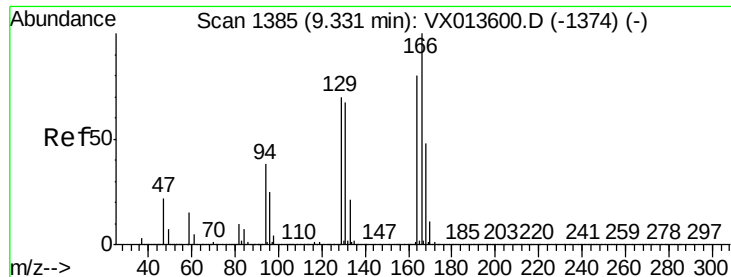
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

Time-->



Time-->



#64

Tetrachloroethene

Concen: 0.234 ug/l

RT: 9.32 min Scan# 1384

Delta R.T. -0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampleId :

TB-20191121

Tot Ion:164 Resp: 1622

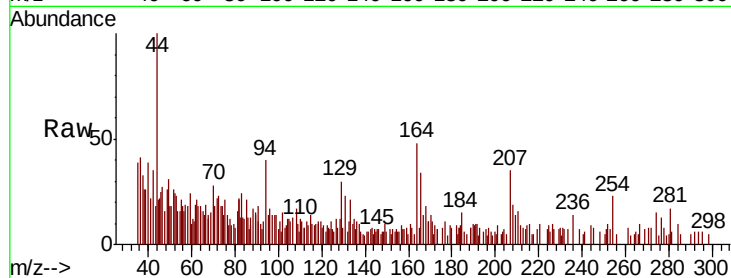
Ion Ratio Lower Upper

164 100

166 70.8 99.7 149.5#

129 49.8 70.1 105.1#

131 32.0 66.9 100.3#

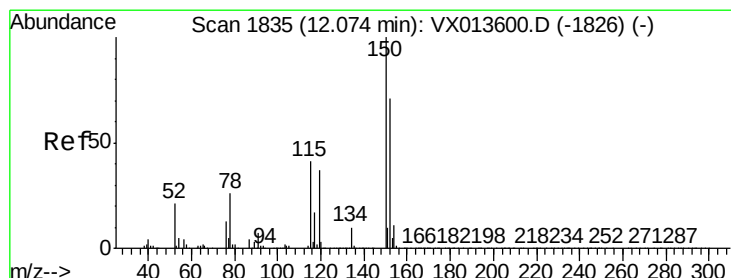
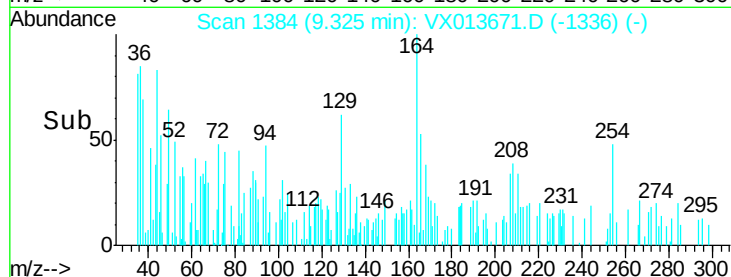
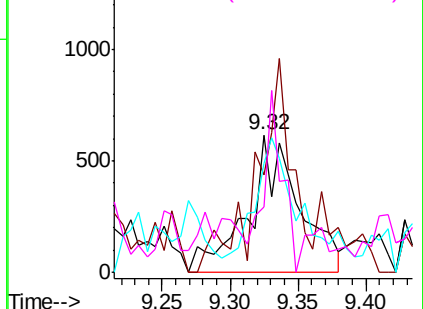


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX013671.D

Acq: 27 Nov 2019 23:37

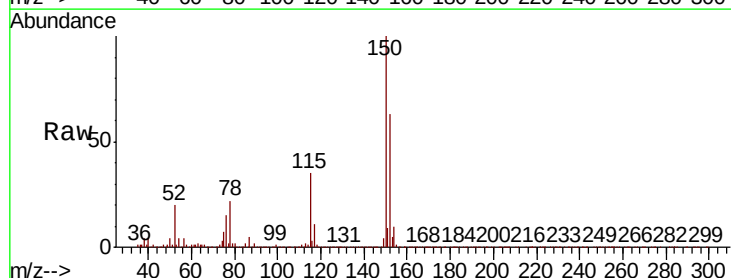
Tgt Ion:152 Resp: 411849

Ion Ratio Lower Upper

152 100

115 55.5 38.4 115.1

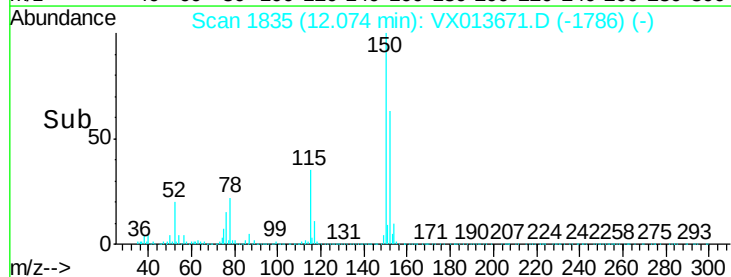
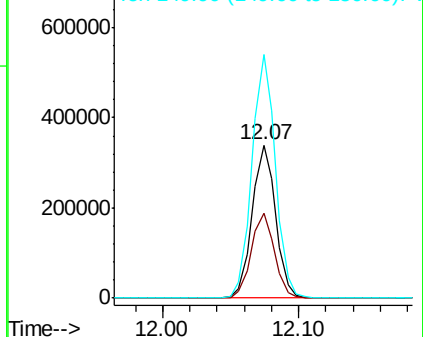
150 158.8 0.0 346.8

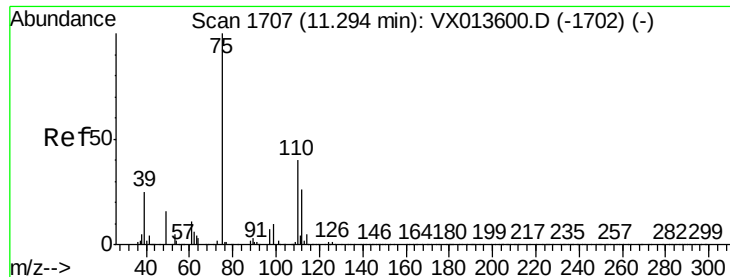


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

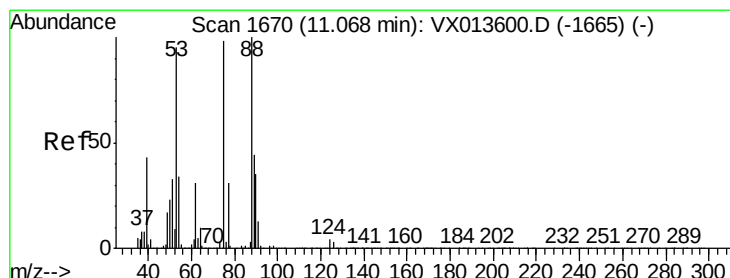
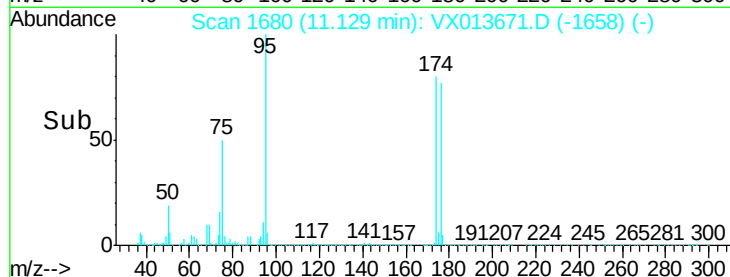
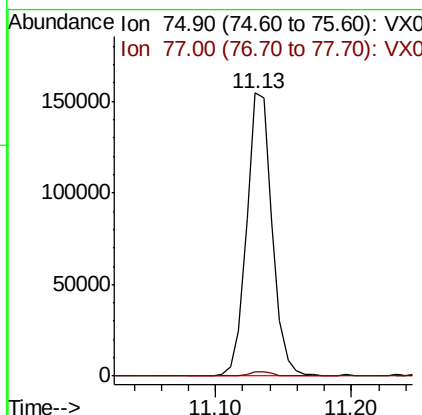
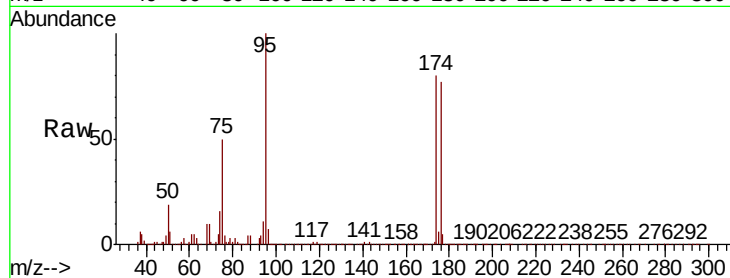




#76
 1,2,3-Trichloropropane
 Concen: 21.825 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX013671.D
 Acq: 27 Nov 2019 23:37

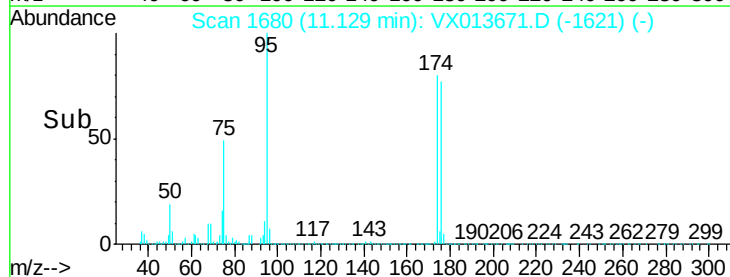
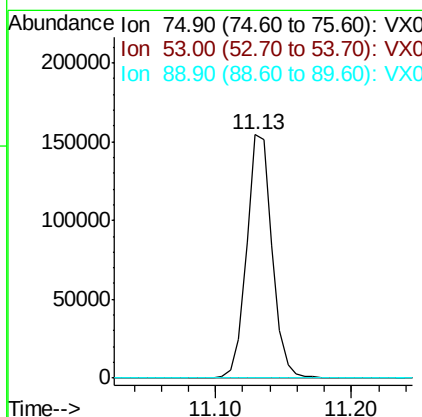
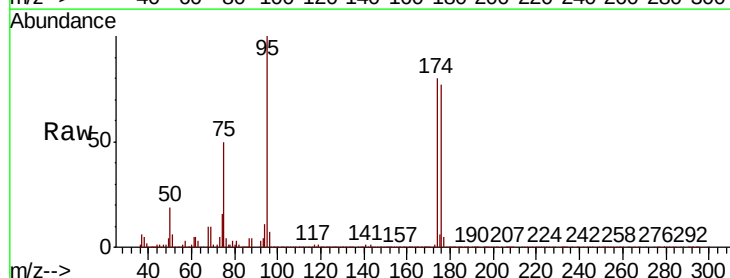
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20191121

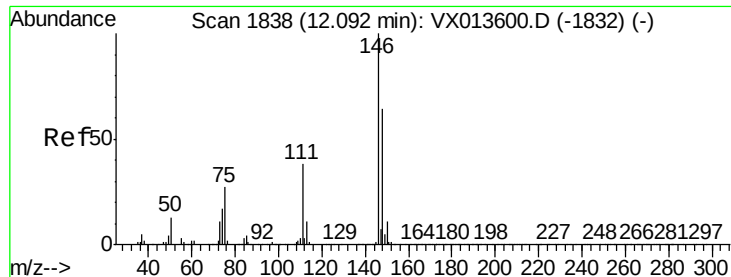
Tot Ion: 75 Resp: 202168
 Ion Ratio Lower Upper
 75 100
 77 1.8 19.1 57.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.709 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX013671.D
 Acq: 27 Nov 2019 23:37

Tgt Ion: 75 Resp: 202168
 Ion Ratio Lower Upper
 75 100
 53 0.2 78.2 117.2#
 89 0.1 35.4 53.2#





#88

1,4-Dichlorobenzene

Concen: 0.209 ug/l

RT: 12.09 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampleId :

TB-20191121

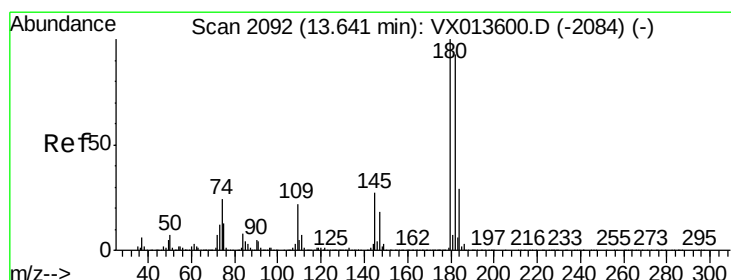
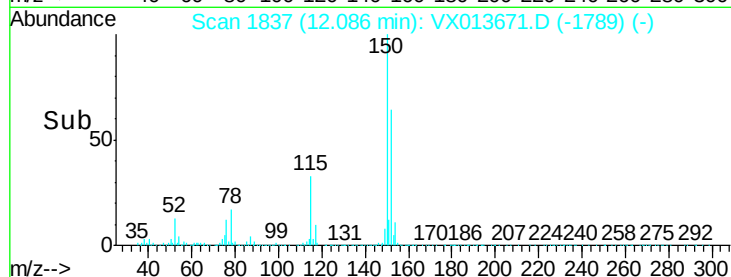
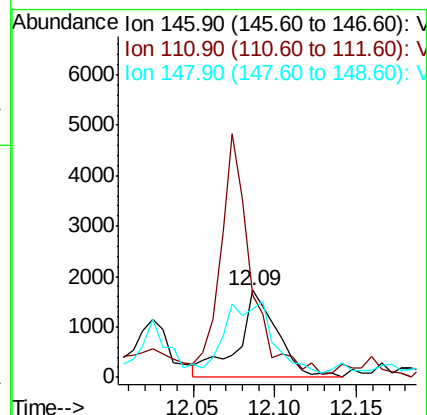
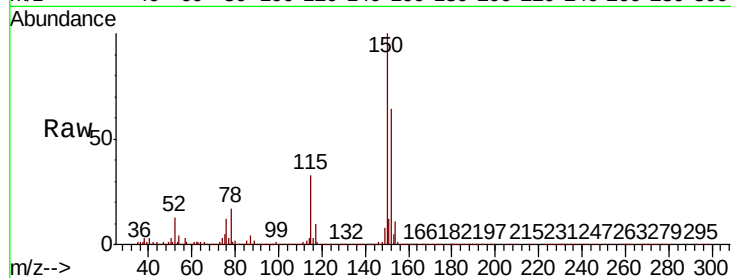
Tot Ion:146 Resp: 2900

Ion Ratio Lower Upper

146 100

111 212.4 18.9 56.9#

148 110.3 31.9 95.5#



#93

1,2,4-Trichlorobenzene

Concen: 0.255 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

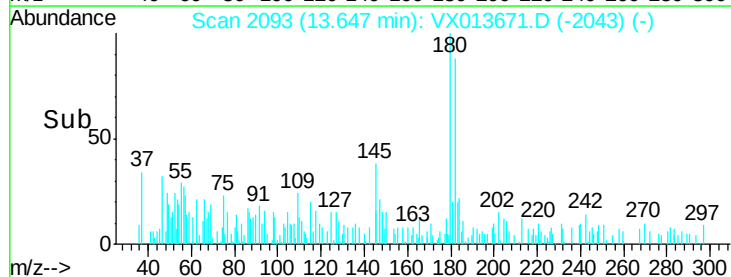
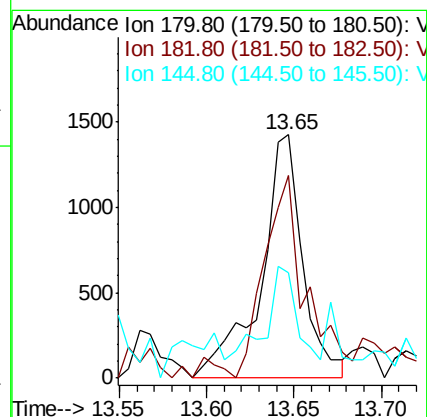
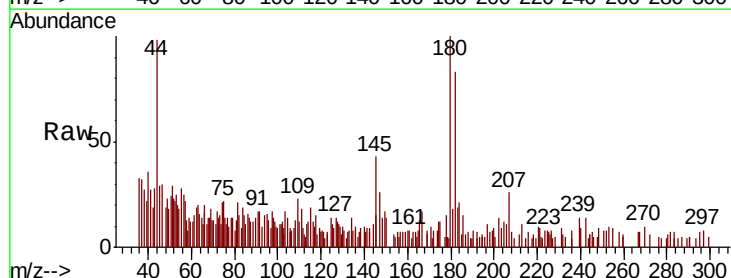
Tgt Ion:180 Resp: 2391

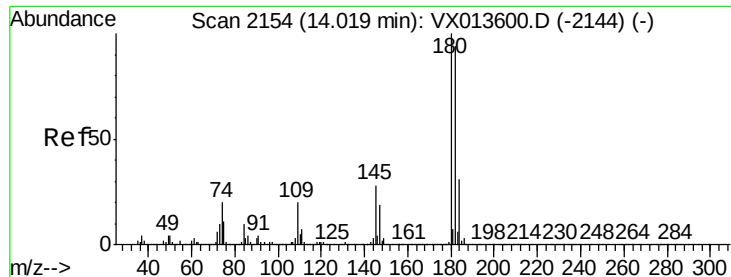
Ion Ratio Lower Upper

180 100

182 81.8 47.2 141.6

145 31.9 13.8 41.4





#96

1,2,3-Trichlorobenzene

Concen: 0.236 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VX013671.D

Acq: 27 Nov 2019 23:37

Instrument :

MSVOA_X

ClientSampleId :

TB-20191121

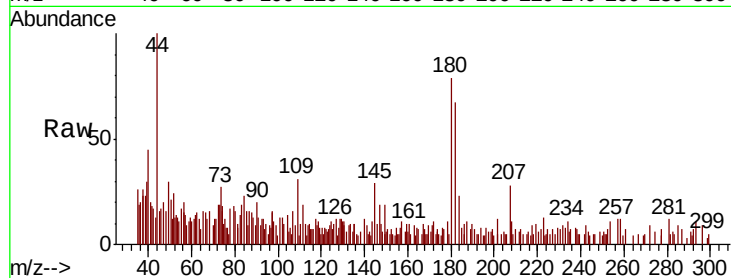
Tot Ion:180 Resp: 2193

Ion Ratio Lower Upper

180 100

182 96.1 47.6 142.8

145 39.0 15.0 45.0



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

