

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013791.D
 Acq On : 06 Dec 2019 11:59
 Operator : JC/SP
 Sample : K6184-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D1-20191202

Quant Time: Dec 07 02:35:28 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	657914	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1003596	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	890381	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	397336	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	360766	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	
35) Dibromofluoromethane	5.49	113	299595	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
50) Toluene-d8	8.71	98	1179652	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.13	95	399010	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	

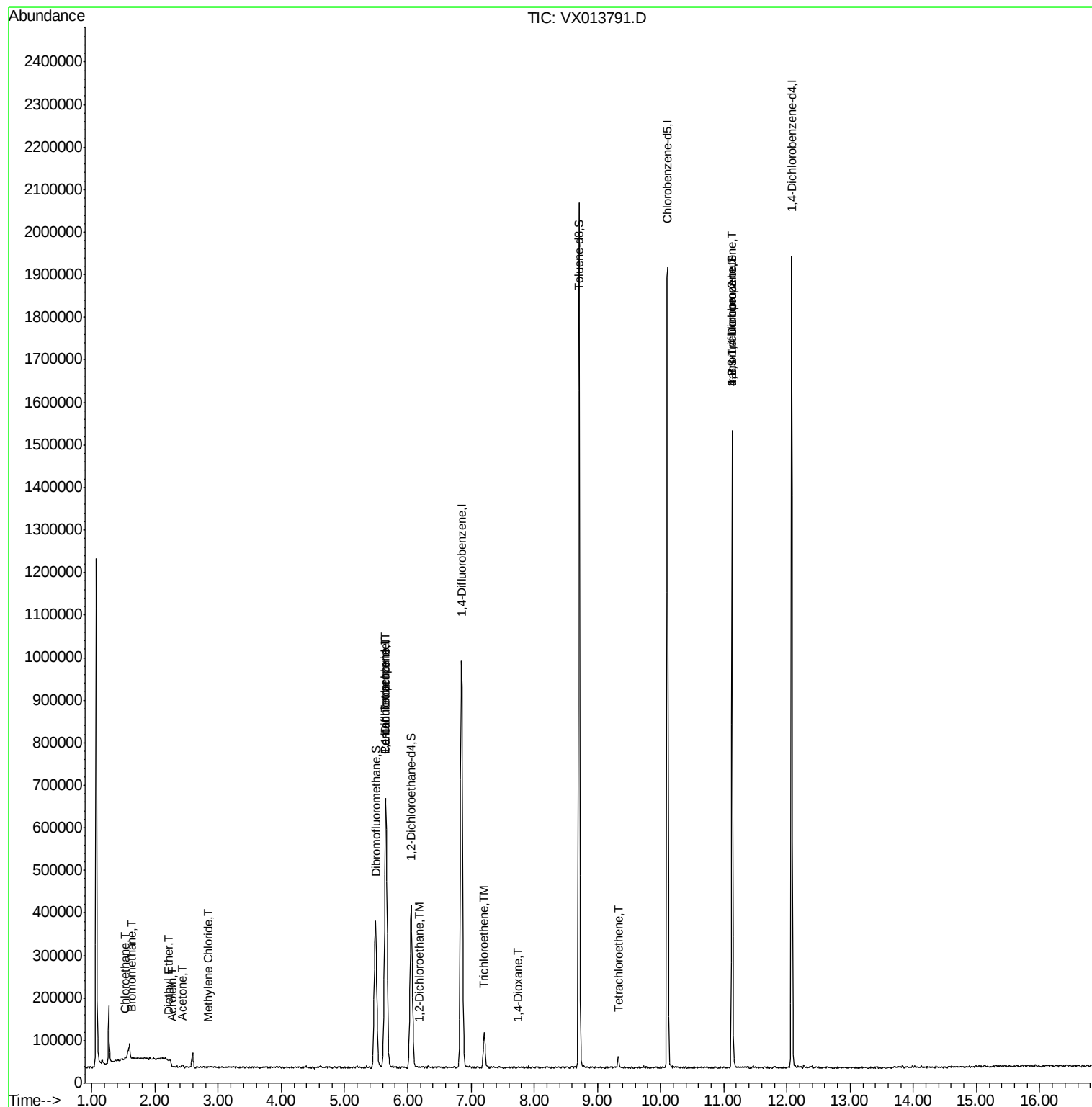
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1425	0.229	ug/l #	37
6) Chloroethane	1.53	64	2168	0.412	ug/l #	41
8) Diethyl Ether	2.21	74	1039	0.224	ug/l	56
13) Acrolein	2.27	56	174	6.138	ug/l #	1
16) Acetone	2.43	43	6136	1.627	ug/l #	88
20) Methylene Chloride	2.85	84	1575	0.217	ug/l #	60
36) 1,1-Dichloropropene	5.65	75	43331	4.756	ug/l #	49
38) Carbon Tetrachloride	5.65	117	57043	6.791	ug/l #	16
42) 1,2-Dichloroethane	6.19	62	2085	0.220	ug/l	92
44) Trichloroethene	7.20	130	35782	4.699	ug/l	91
49) 1,4-Dioxane	7.74	88	290	1.585	ug/l #	25
64) Tetrachloroethene	9.34	164	5905	0.889	ug/l #	83
76) 1,2,3-Trichloropropane	11.13	75	193951	21.703	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	193951	59.374	ug/l #	11

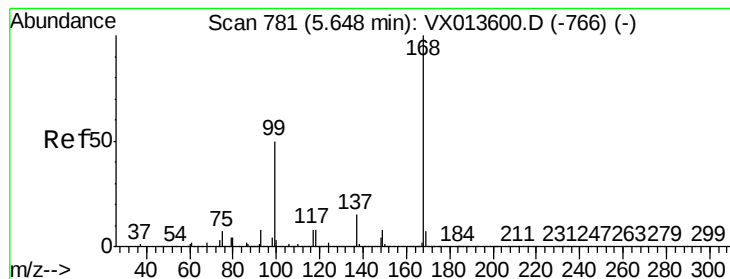
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

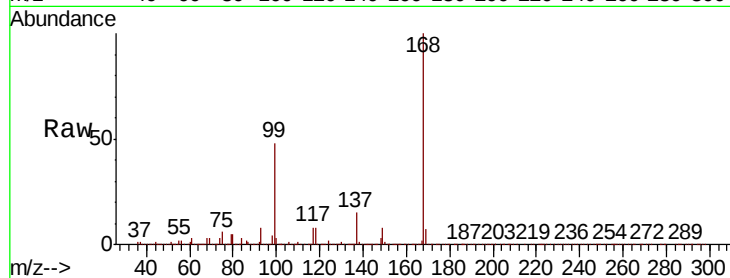
RE134D1-20191202

Tot Ion:168 Resp: 657914

Ion Ratio Lower Upper

168 100

99 48.2 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

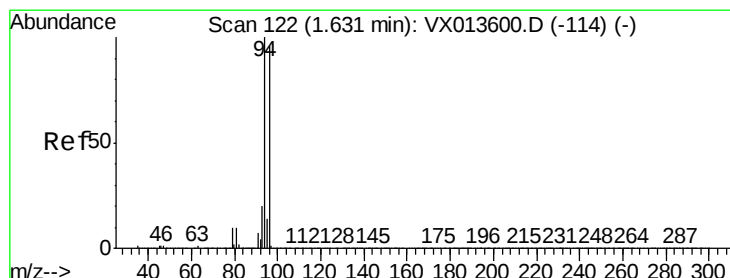
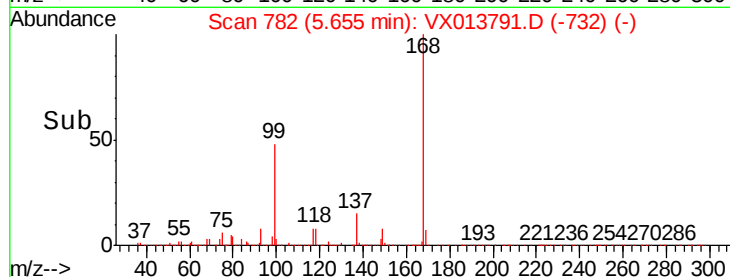
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.229 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013791.D

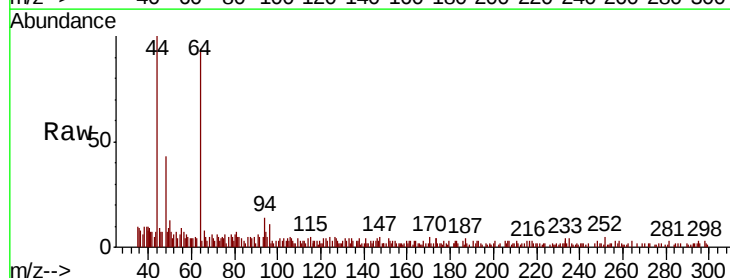
Acq: 06 Dec 2019 11:59

Tgt Ion: 94 Resp: 1425

Ion Ratio Lower Upper

94 100

96 34.6 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

800

600

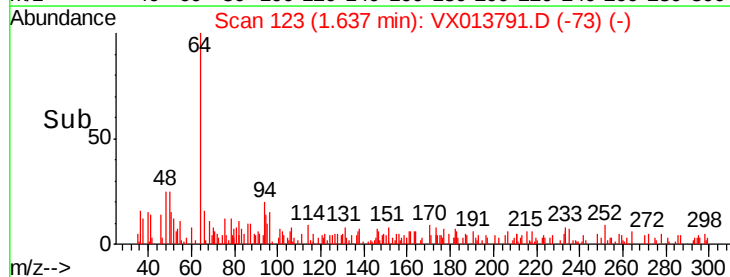
400

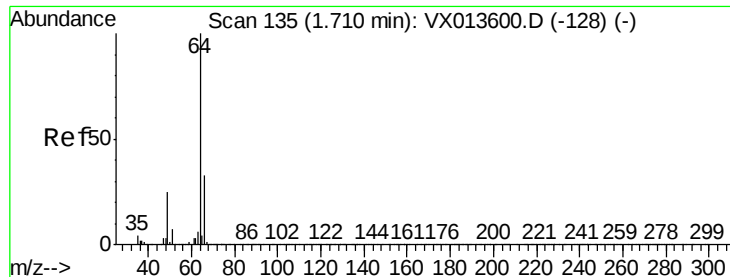
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.412 ug/l

RT: 1.53 min Scan# 106

Delta R.T. -0.18 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

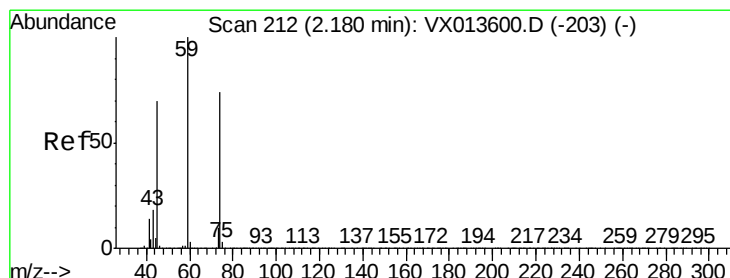
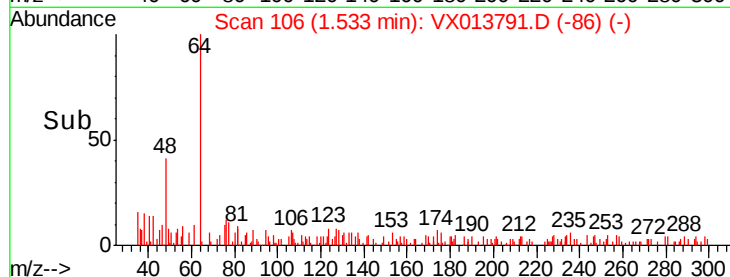
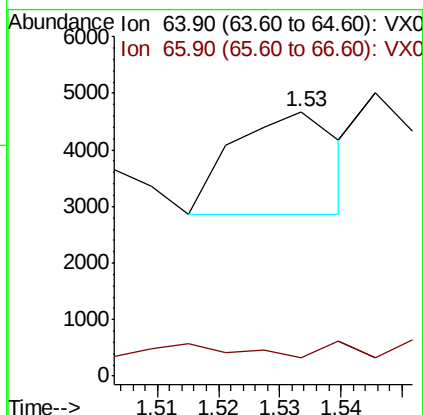
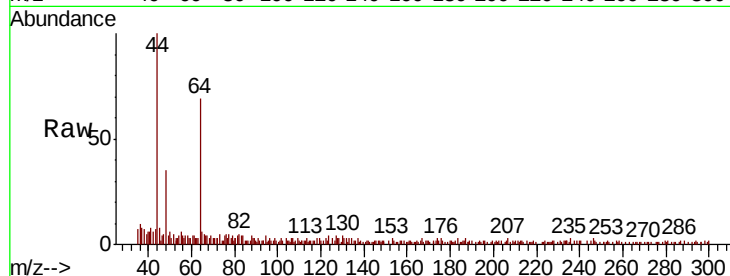
RE134D1-20191202

Tot Ion: 64 Resp: 2168

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#



#8

Diethyl Ether

Concen: 0.224 ug/l

RT: 2.21 min Scan# 217

Delta R.T. 0.03 min

Lab File: VX013791.D

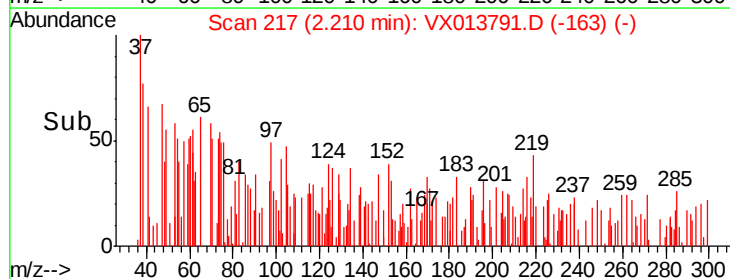
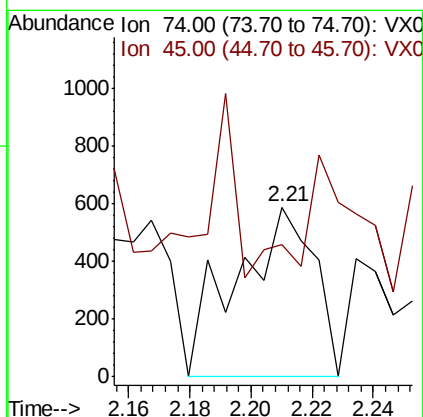
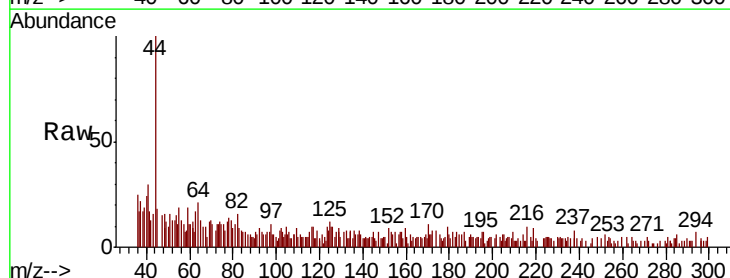
Acq: 06 Dec 2019 11:59

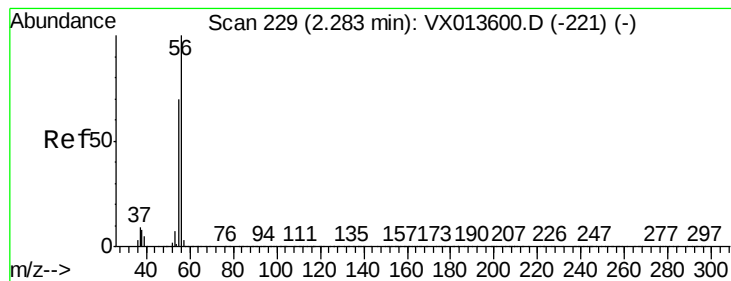
Tgt Ion: 74 Resp: 1039

Ion Ratio Lower Upper

74 100

45 54.4 48.9 146.8





#13

Acrolein

Concen: 6.138 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

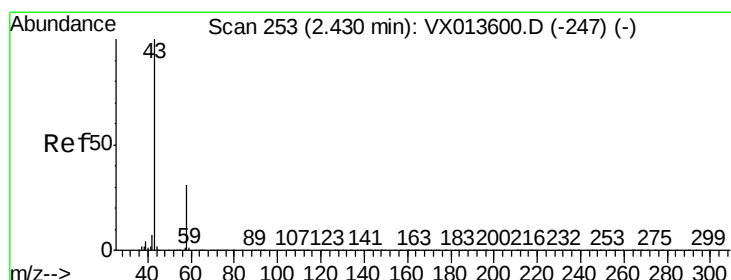
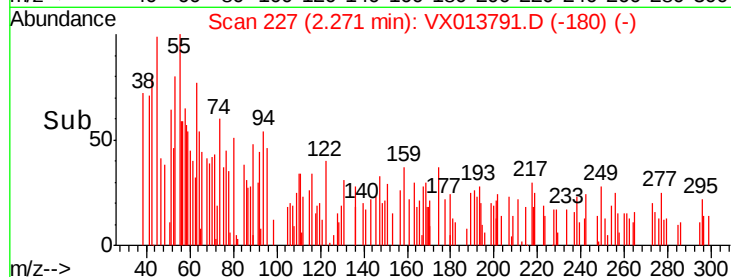
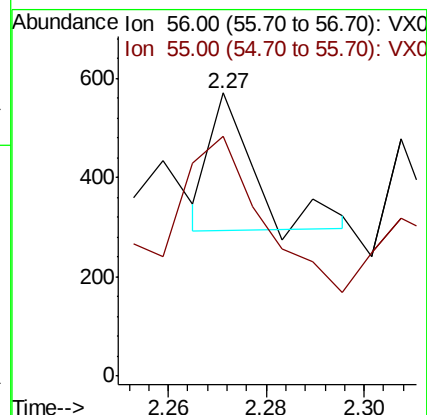
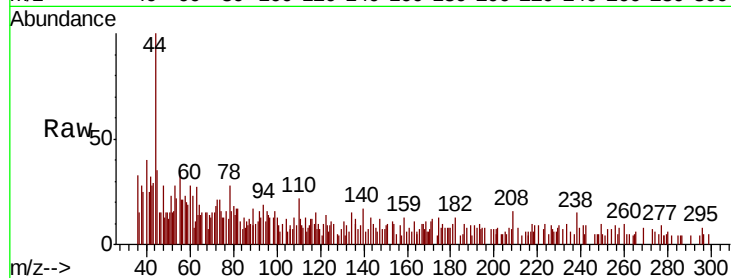
RE134D1-20191202

Tot Ion: 56 Resp: 174

Ion Ratio Lower Upper

56 100

55 187.4 56.2 84.4#



#16

Acetone

Concen: 1.627 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013791.D

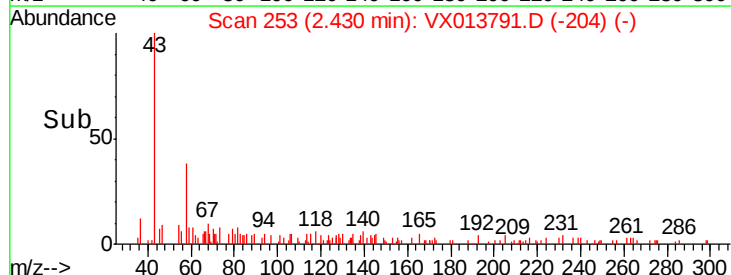
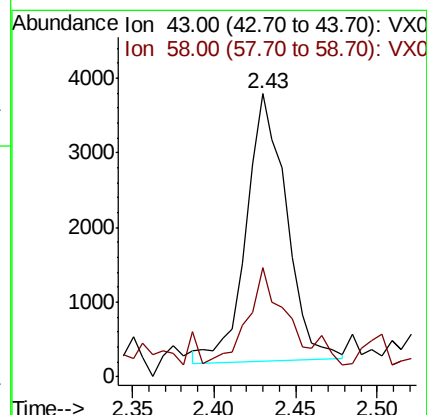
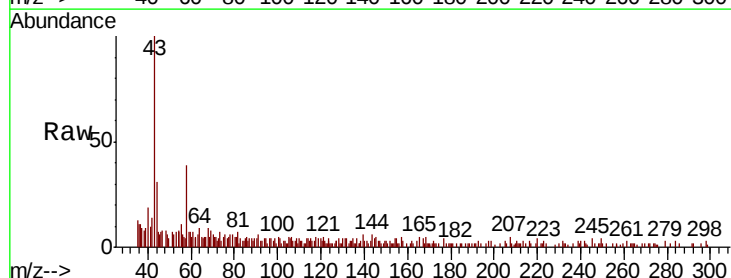
Acq: 06 Dec 2019 11:59

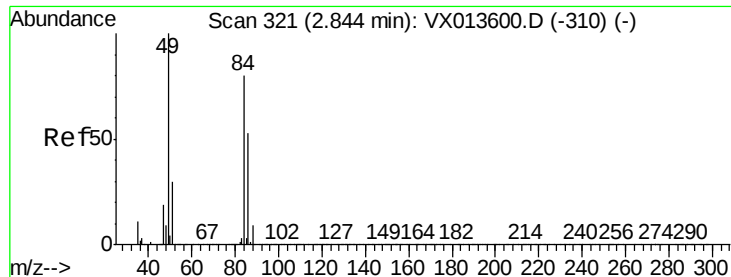
Tgt Ion: 43 Resp: 6136

Ion Ratio Lower Upper

43 100

58 37.1 24.6 36.8#

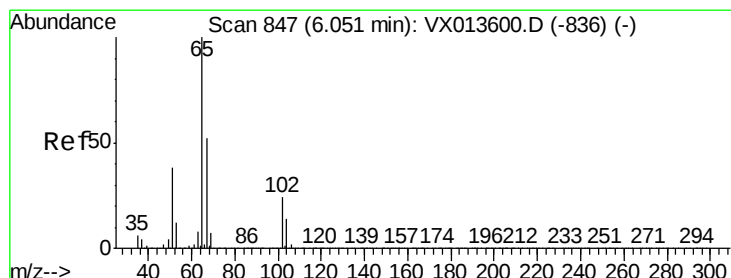
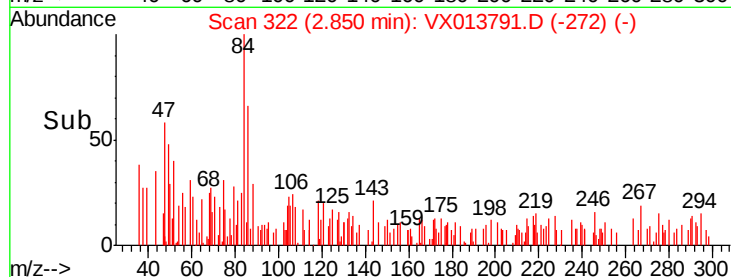
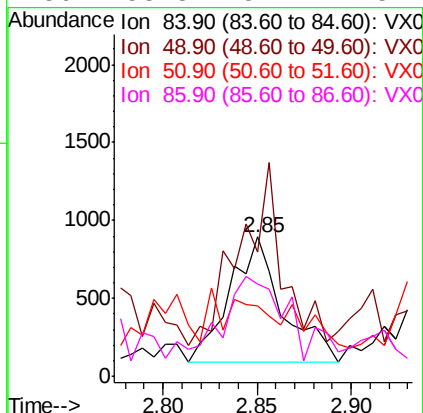
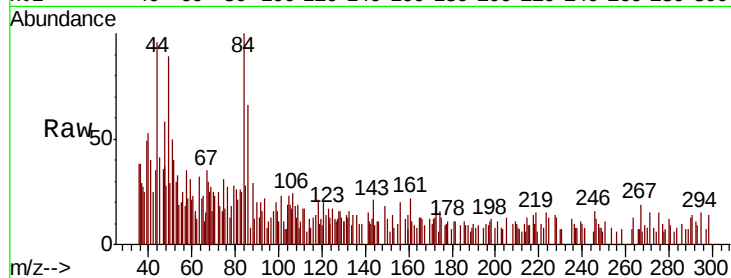




#20
Methvlene Chloride
Concen: 0.217 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013791.D
Acq: 06 Dec 2019 11:59

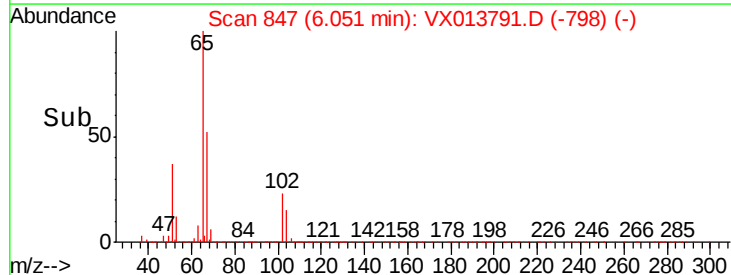
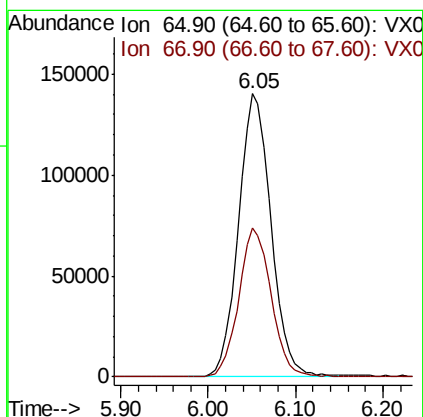
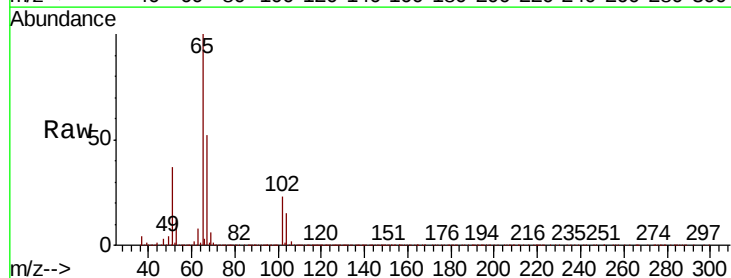
Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20191202

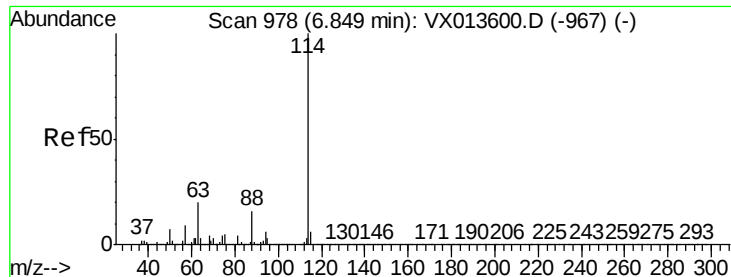
Tot Ion: 84 Resp: 1575
Ion Ratio Lower Upper
84 100
49 62.8 99.7 149.5#
51 14.7 29.9 44.9#
86 53.8 52.2 78.4



#33
1,2-Dichloroethane-d4
Concen: 47.240 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013791.D
Acq: 06 Dec 2019 11:59

Tgt Ion: 65 Resp: 360766
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: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :

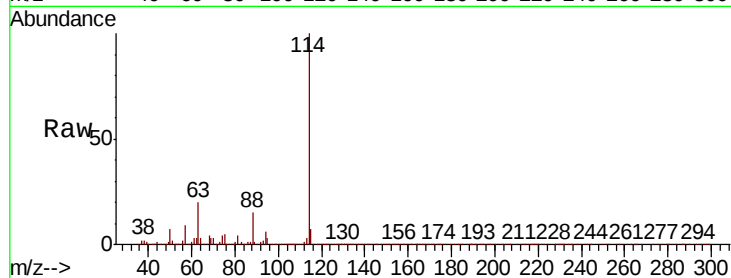
MSVOA_X

ClientSampleId :

RE134D1-20191202

Tot Ion:114 Resp: 1003596

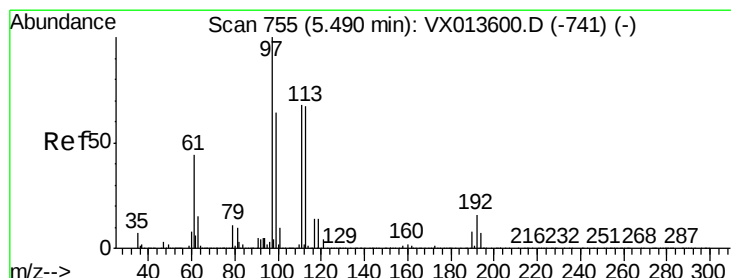
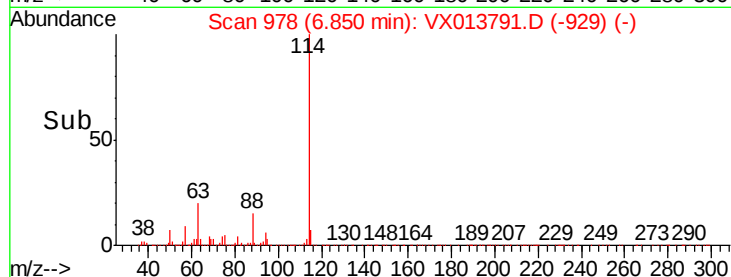
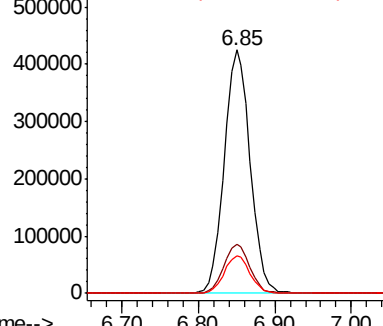
Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.6
88	15.3	0.0	31.4



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: 48.288 ug/l

RT: 5.49 min Scan# 755

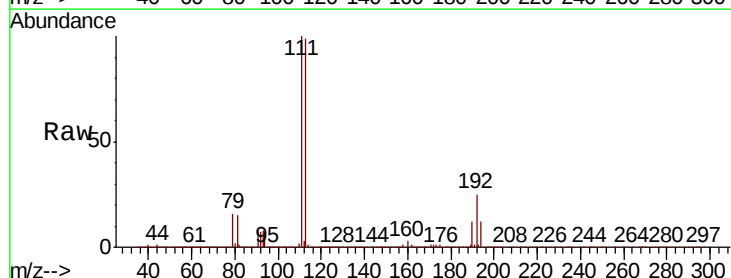
Delta R.T. 0.00 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Tgt Ion:113 Resp: 299595

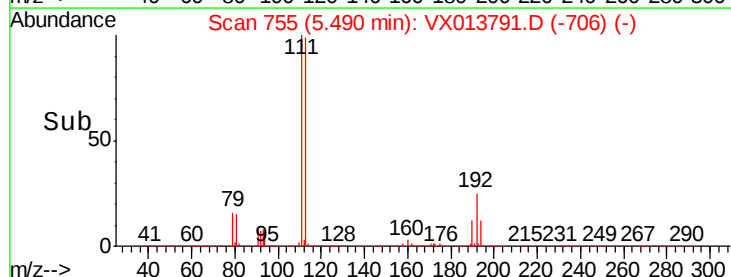
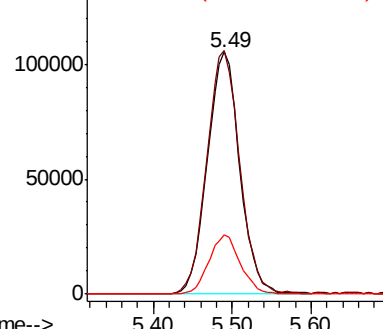
Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.6	125.4
192	23.9	19.2	28.8

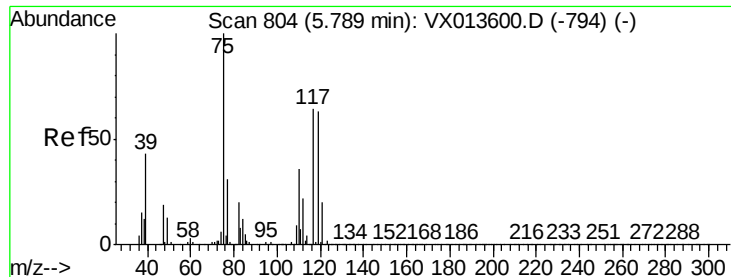


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.756 ug/l

RT: 5.65 min Scan# 781

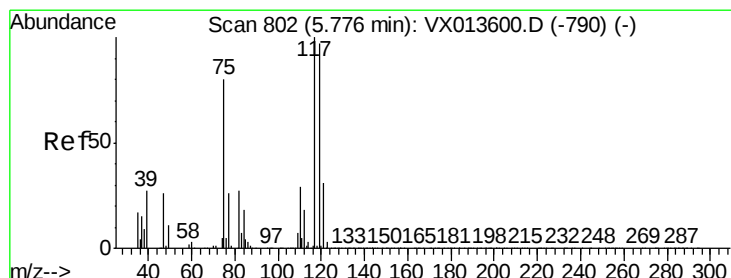
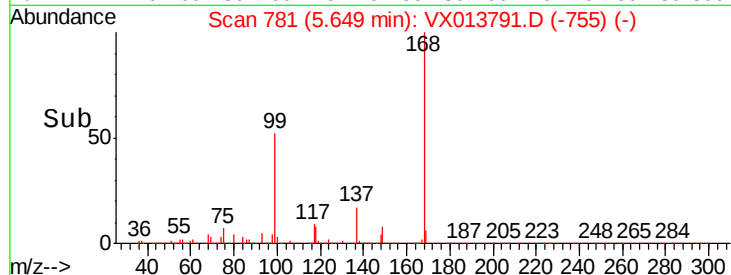
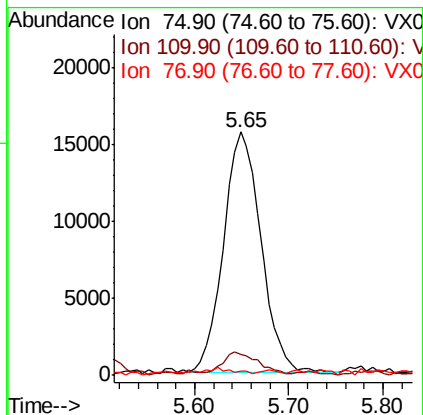
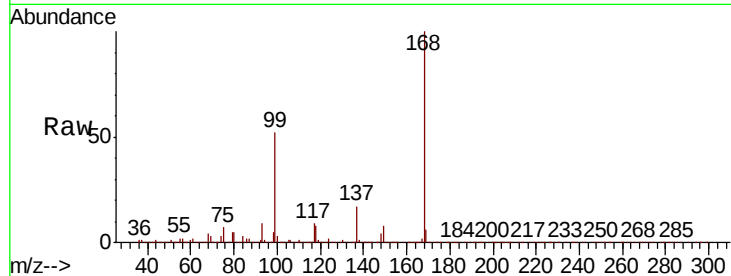
Delta R.T. -0.14 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :
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Tot Ion:	75	Resp:	43331
Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.1#
77	0.0	24.5	36.7#



#38

Carbon Tetrachloride

Concen: 6.791 ug/l

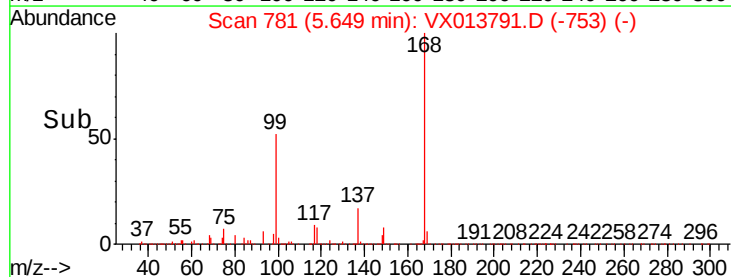
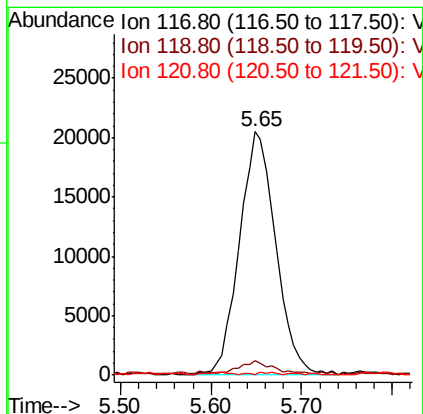
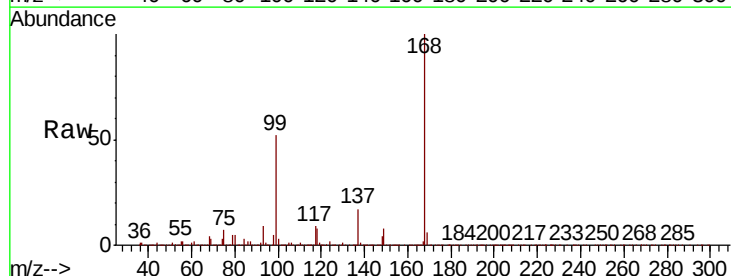
RT: 5.65 min Scan# 781

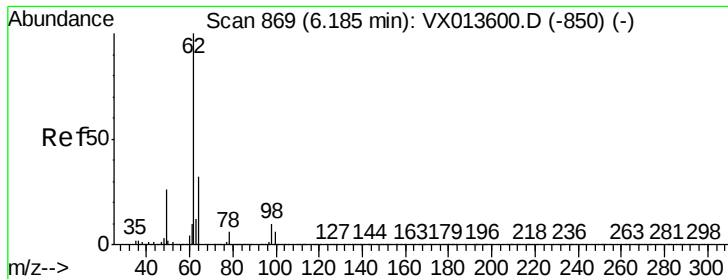
Delta R.T. -0.13 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Tgt Ion:	117	Resp:	57043
Ion	Ratio	Lower	Upper
117	100		
119	5.8	77.5	116.3#
121	0.4	25.0	37.6#





#42

1,2-Dichloroethane

Concen: 0.220 ug/l

RT: 6.19 min Scan# 869

Delta R.T. 0.00 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

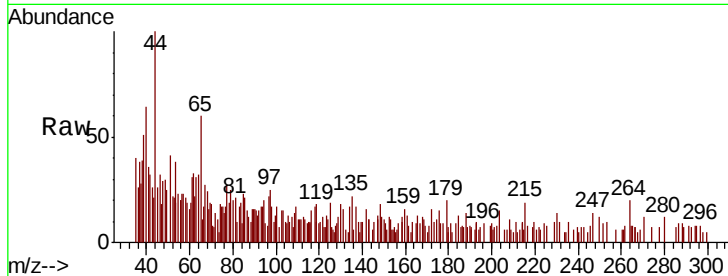
RE134D1-20191202

Tot Ion: 62 Resp: 2085

Ion Ratio Lower Upper

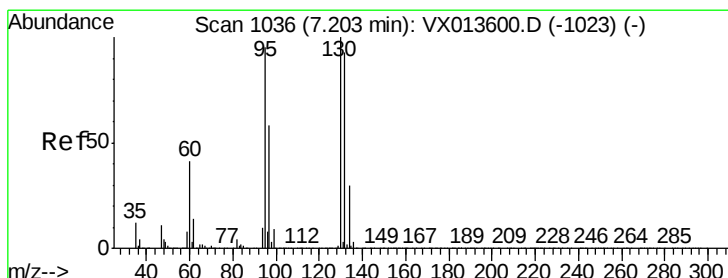
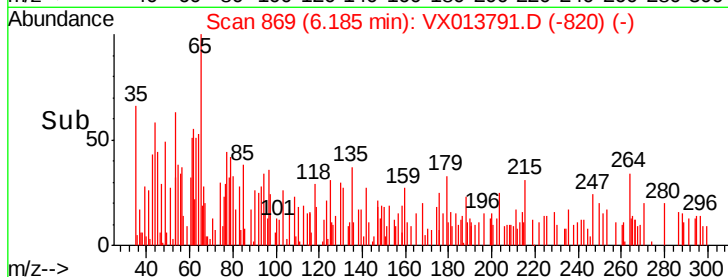
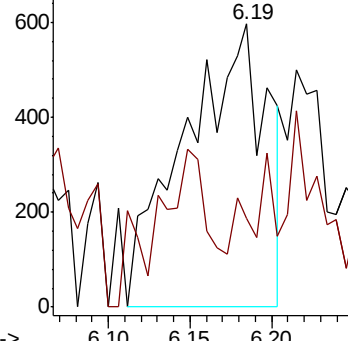
62 100

98 13.5 0.0 20.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#44

Trichloroethene

Concen: 4.699 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VX013791.D

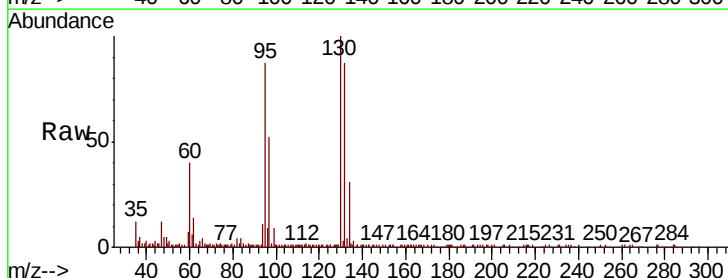
Acq: 06 Dec 2019 11:59

Tgt Ion:130 Resp: 35782

Ion Ratio Lower Upper

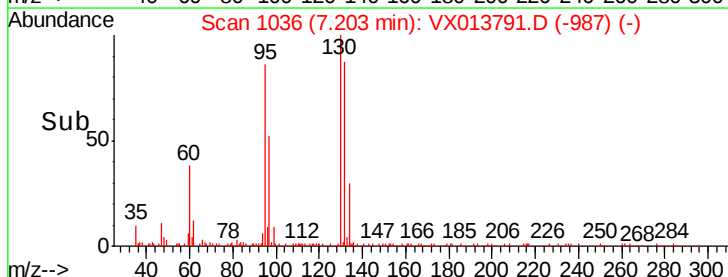
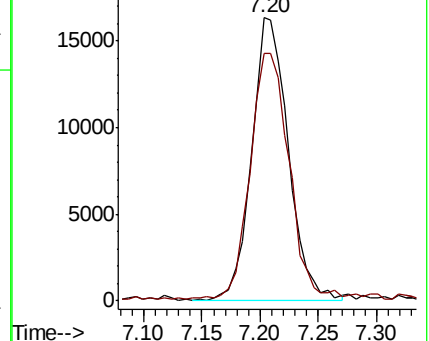
130 100

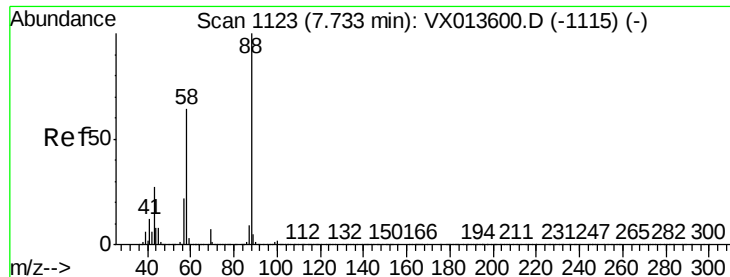
95 86.3 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.585 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

RE134D1-20191202

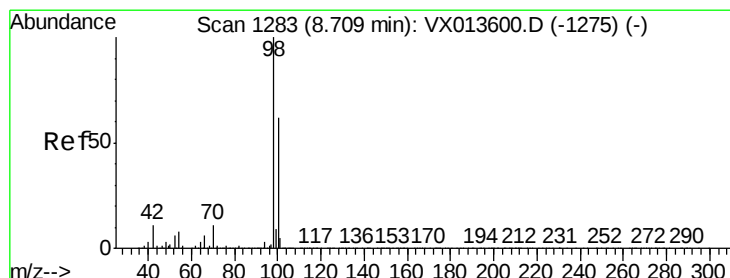
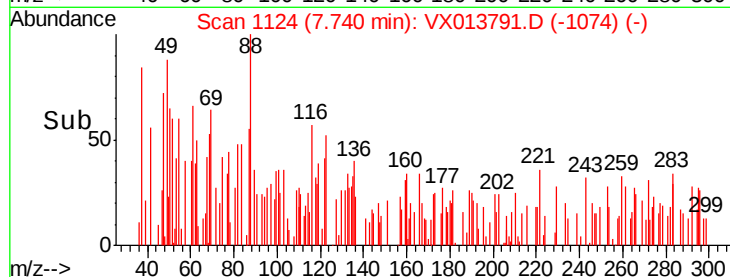
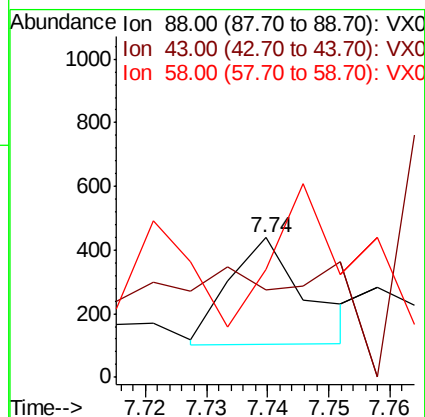
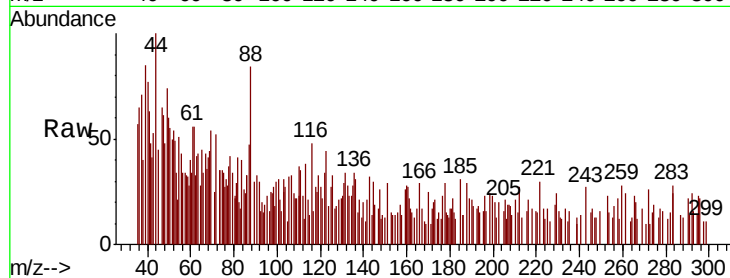
Tot Ion: 88 Resp: 290

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 136.2 54.6 82.0#



#50

Toluene-d8

Concen: 48.801 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013791.D

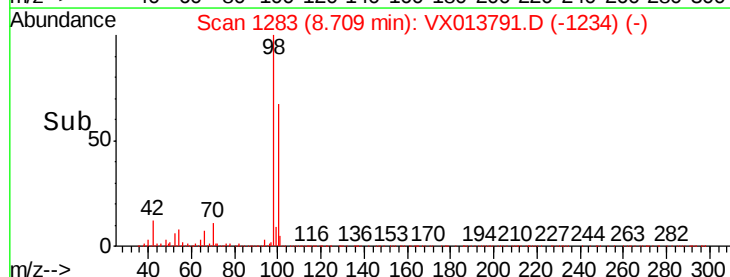
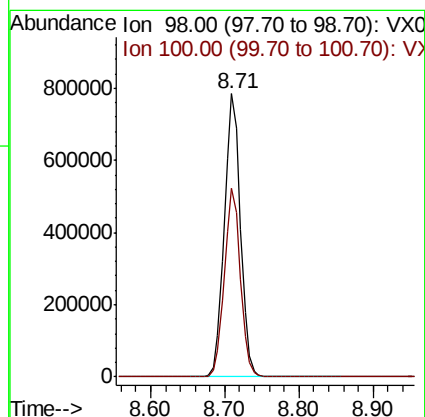
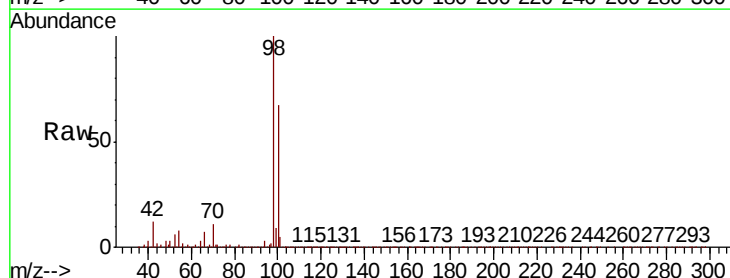
Acq: 06 Dec 2019 11:59

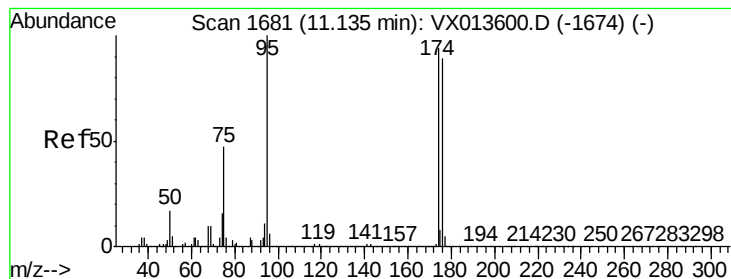
Tgt Ion: 98 Resp: 1179652

Ion Ratio Lower Upper

98 100

100 66.0 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 45.775 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

RE134D1-20191202

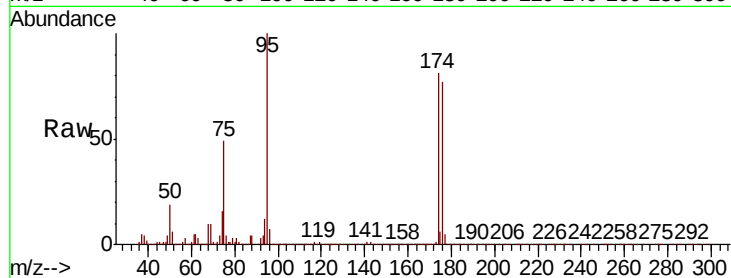
Tot Ion: 95 Resp: 399010

Ion Ratio Lower Upper

95 100

174 89.3 0.0 180.0

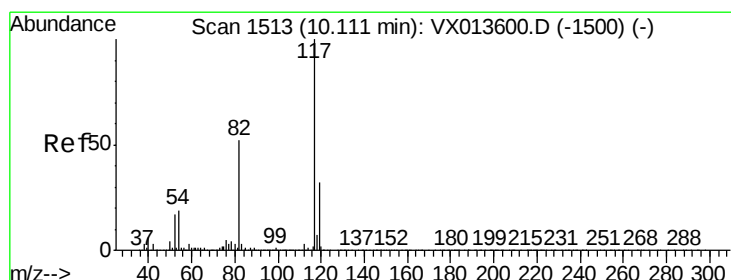
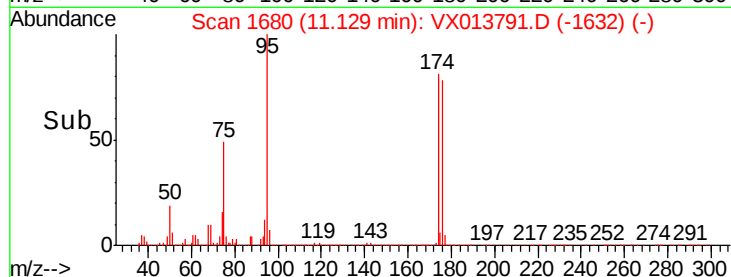
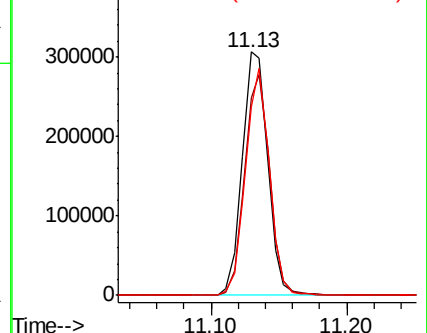
176 87.6 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX013791.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013791.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013791.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

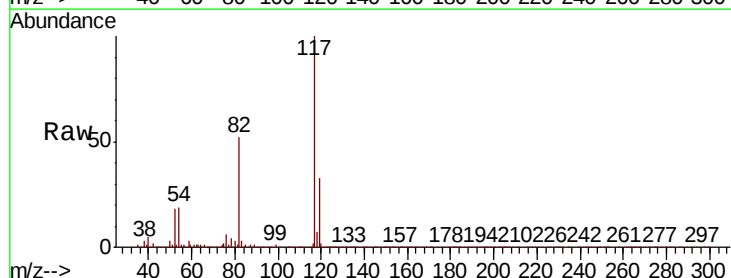
Tgt Ion: 117 Resp: 890381

Ion Ratio Lower Upper

117 100

82 51.8 41.8 62.8

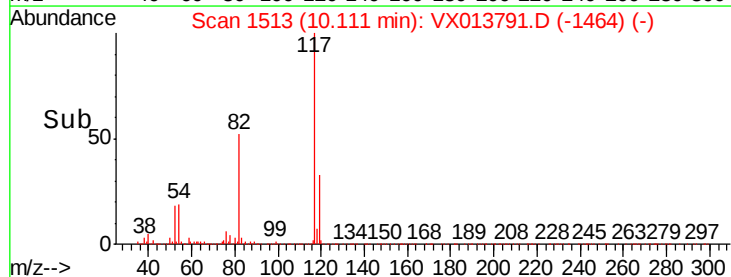
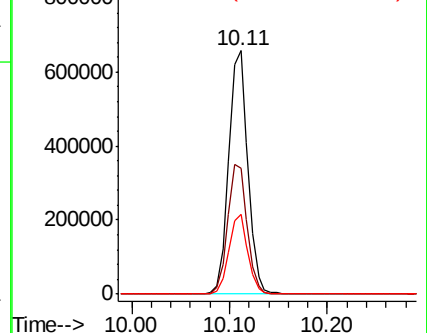
119 32.7 25.8 38.8

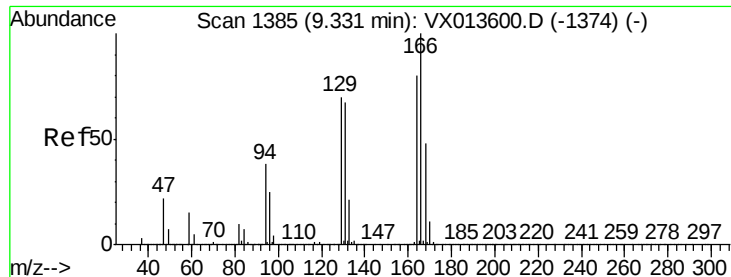


Abundance Ion 116.90 (116.60 to 117.60): VX013791.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013791.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013791.D (-1464) (-)





#64

Tetrachloroethene

Concen: 0.889 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

RE134D1-20191202

Tot Ion:164 Resp: 5905

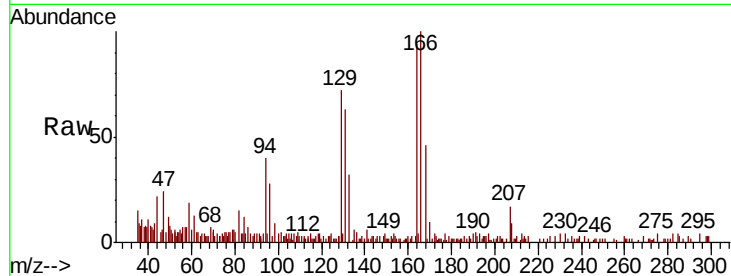
Ion Ratio Lower Upper

164 100

166 104.7 99.7 149.5

129 74.0 70.1 105.1

131 65.6 66.9 100.3#

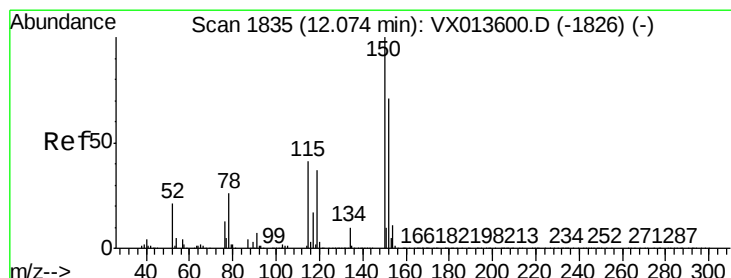
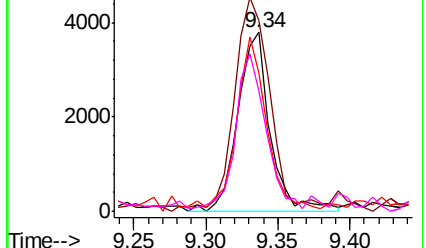
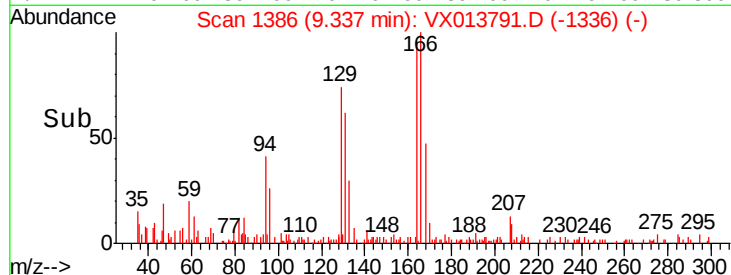


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX013791.D

Acq: 06 Dec 2019 11:59

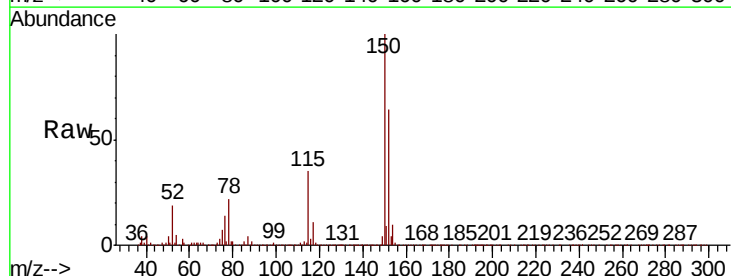
Tgt Ion:152 Resp: 397336

Ion Ratio Lower Upper

152 100

115 55.3 38.4 115.1

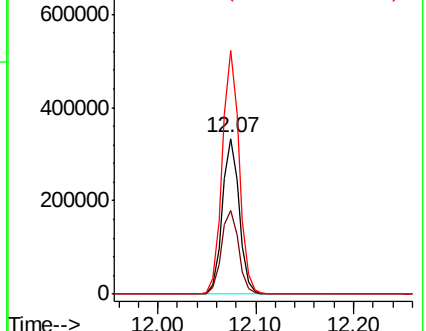
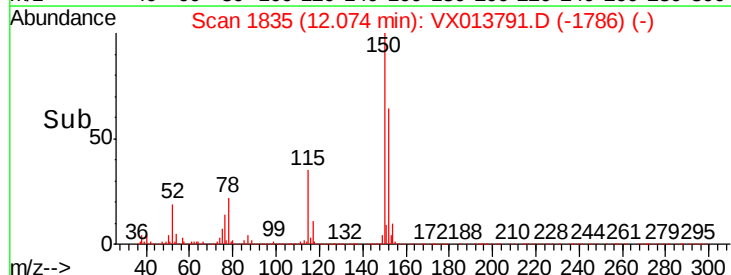
150 157.0 0.0 346.8

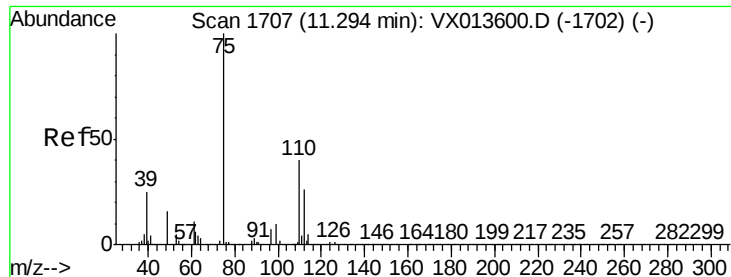


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.703 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

Instrument :

MSVOA_X

ClientSampleId :

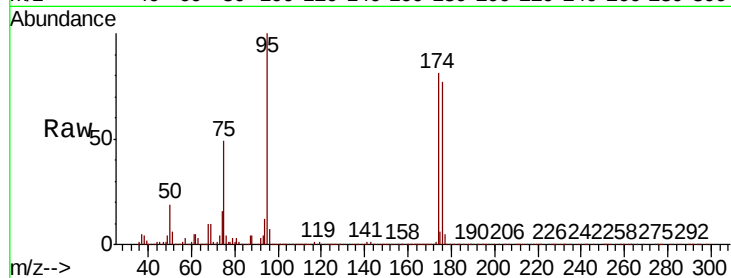
RE134D1-20191202

Tot Ion: 75 Resp: 193951

Ion Ratio Lower Upper

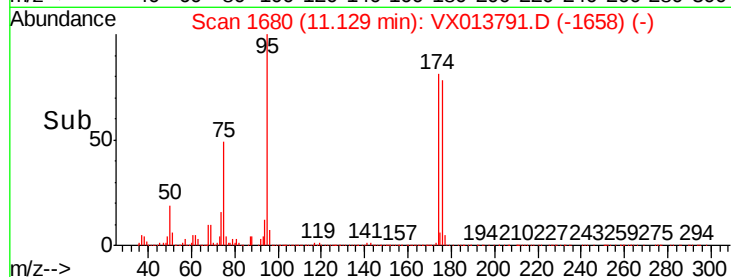
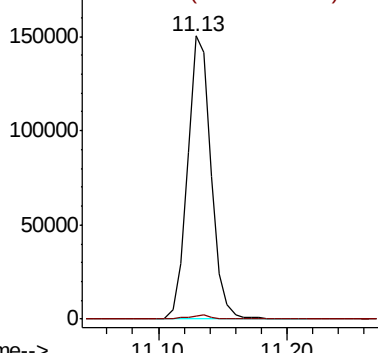
75 100

77 1.4 19.1 57.5#

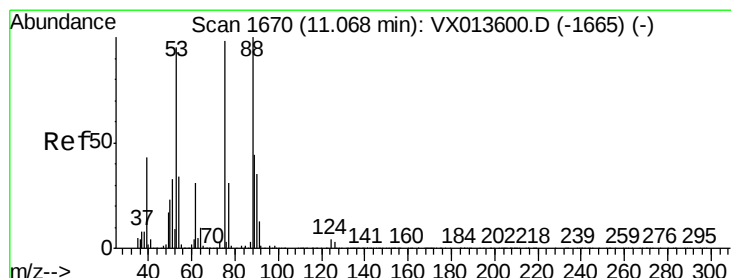


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 59.374 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013791.D

Acq: 06 Dec 2019 11:59

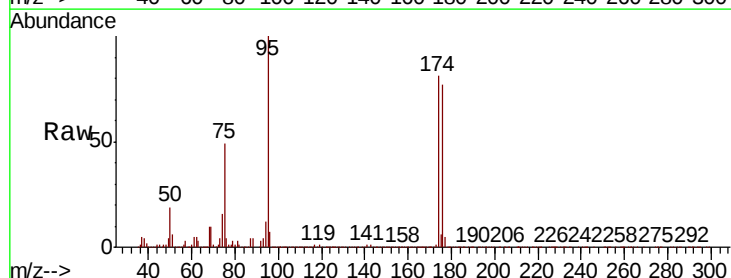
Tgt Ion: 75 Resp: 193951

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

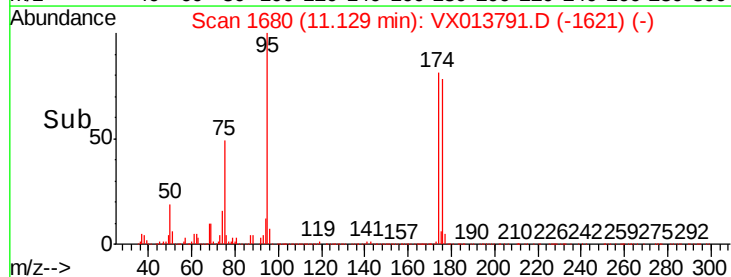
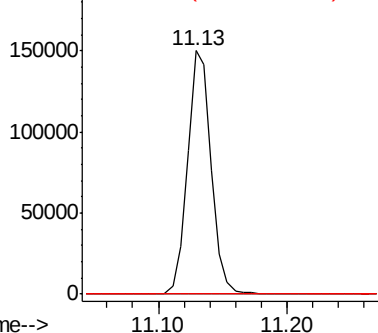
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->