

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122019\
 Data File : VX014178.D
 Acq On : 20 Dec 2019 16:49
 Operator : JC/SP
 Sample : K6377-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-6

Quant Time: Dec 20 22:29:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	563428	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	861640	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	769664	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	341566	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	308581	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
35) Dibromofluoromethane	5.49	113	250749	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
50) Toluene-d8	8.71	98	1020439	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
62) 4-Bromofluorobenzene	11.13	95	341221	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	

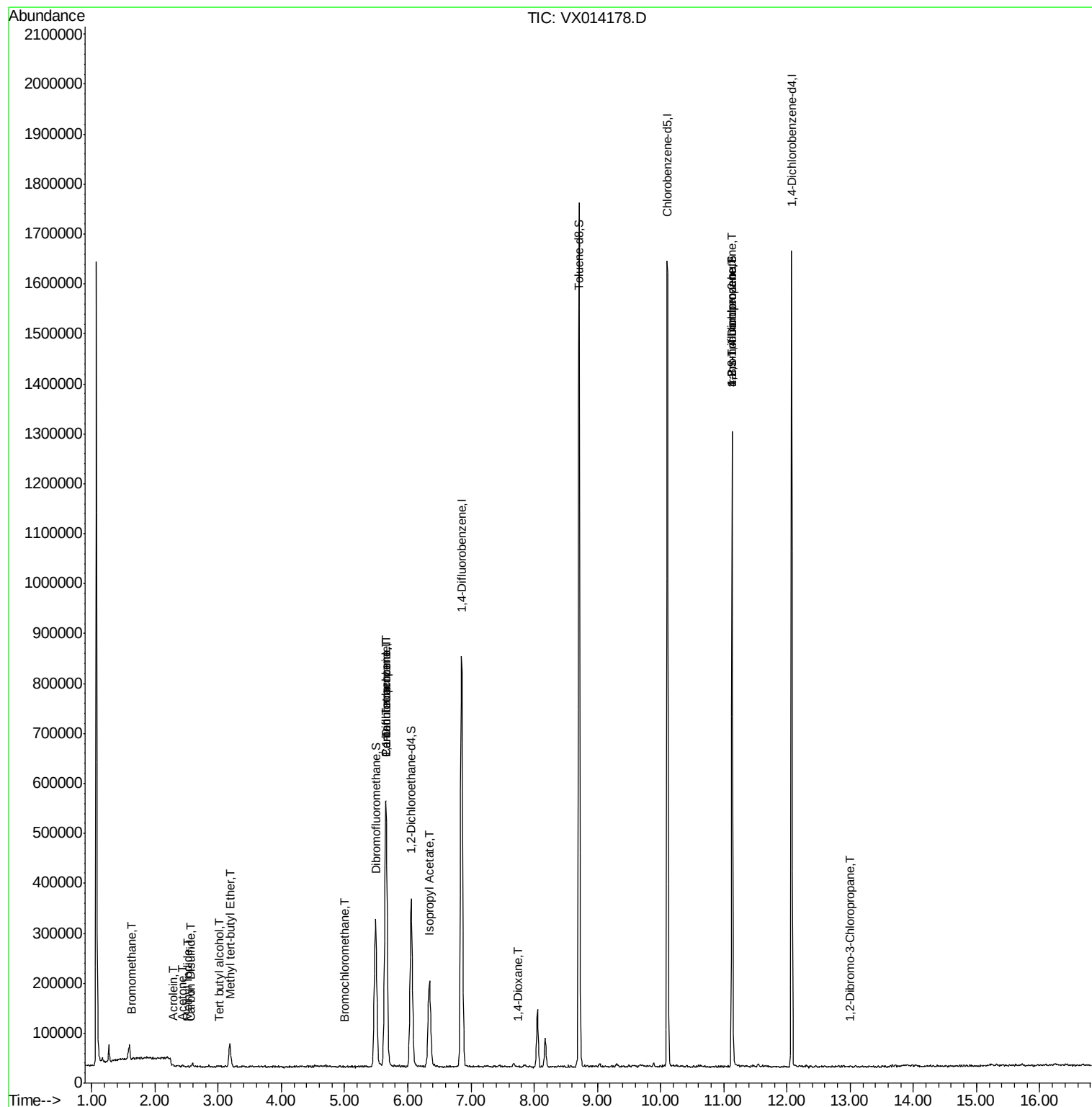
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1526	0.301	ug/l	89
10) Methyl Iodide	2.52	142	380	2.672	ug/l #	12
11) Tert butyl alcohol	3.02	59	2457	1.781	ug/l #	72
13) Acrolein	2.28	56	323	0.409	ug/l #	1
16) Acetone	2.43	43	2937	0.708	ug/l #	83
17) Carbon Disulfide	2.56	76	820	0.804	ug/l #	75
19) Methyl tert-butyl Ether	3.19	73	53180	2.986	ug/l	97
28) Bromochloromethane	5.00	49	258	0.516	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	37296	4.717	ug/l #	50
38) Carbon Tetrachloride	5.65	117	49821	6.917	ug/l #	17
43) Isopropyl Acetate	6.34	43	45639	3.159	ug/l #	62
49) 1,4-Dioxane	7.74	88	279	1.938	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	168267	22.692	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	168267	64.048	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	407	0.221	ug/l	59

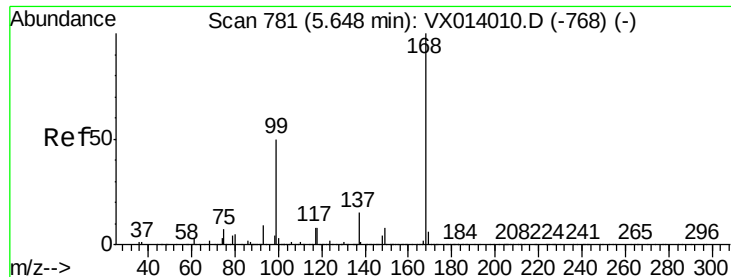
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

Instrument :

MSVOA_X

ClientSampled :

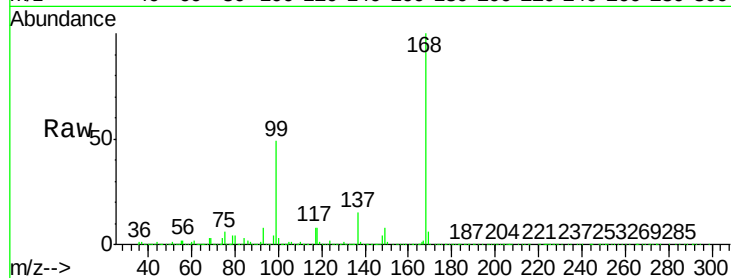
MW-6

Tgt Ion: 168 Resp: 563428

Ion Ratio Lower Upper

168 100

99 49.4 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

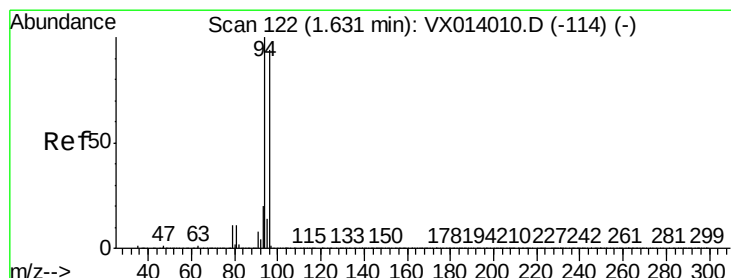
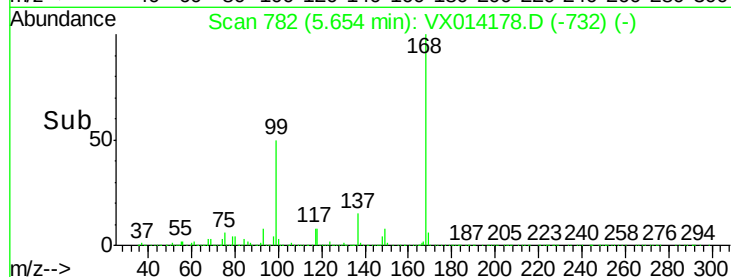
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.301 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014178.D

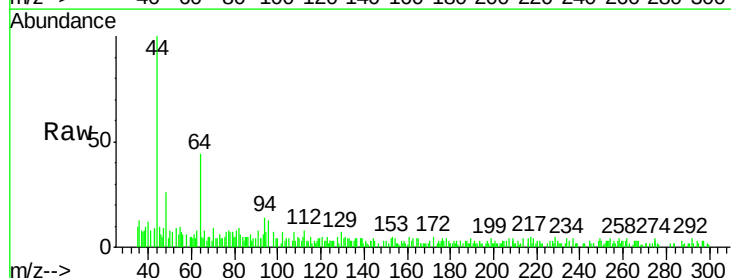
Acq: 20 Dec 2019 16:49

Tgt Ion: 94 Resp: 1526

Ion Ratio Lower Upper

94 100

96 104.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

500

400

300

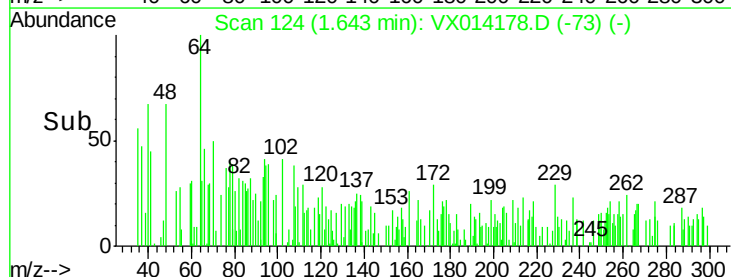
200

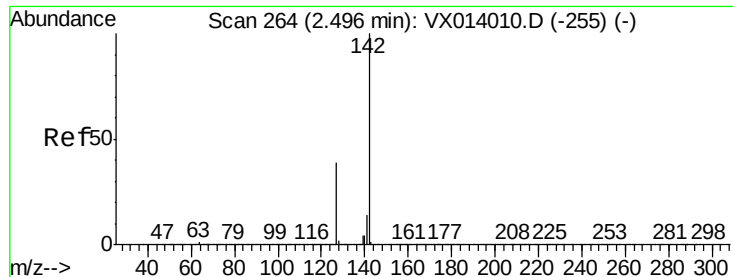
100

0

Time-->

1.60 1.65 1.70

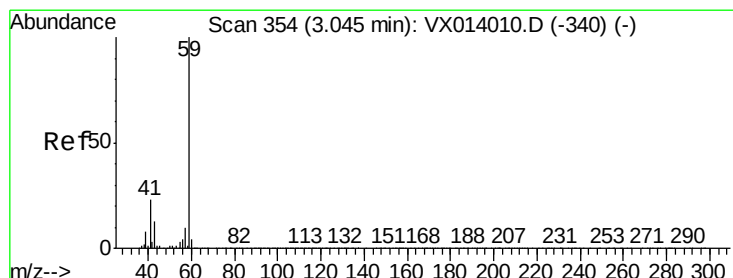
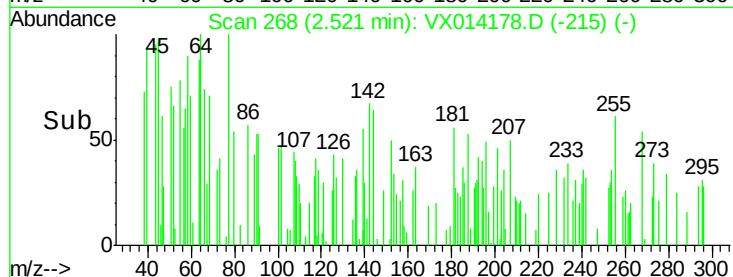
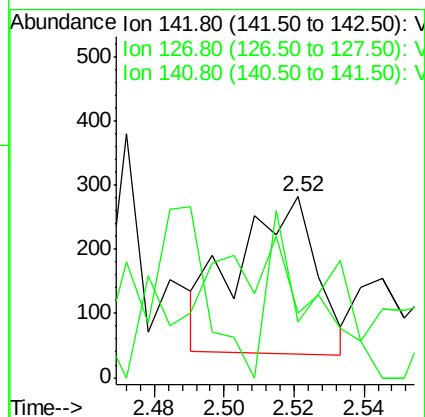
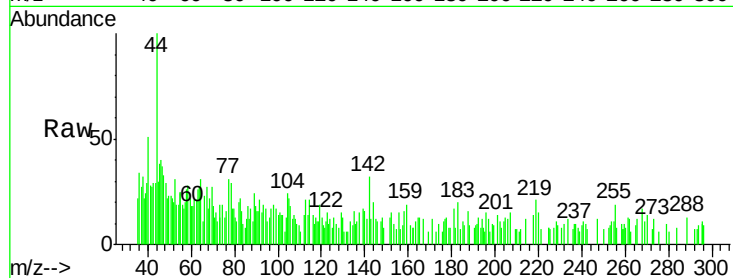




#10
Methyl Iodide
Concen: 2.672 ug/l
RT: 2.52 min Scan# 268
Delta R.T. 0.02 min
Lab File: VX014178.D
Acq: 20 Dec 2019 16:49

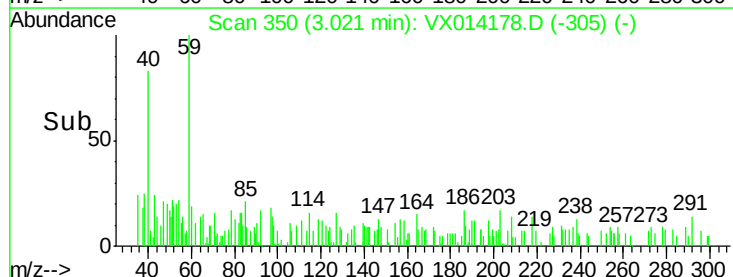
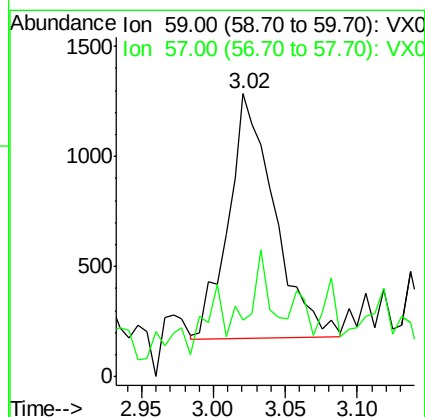
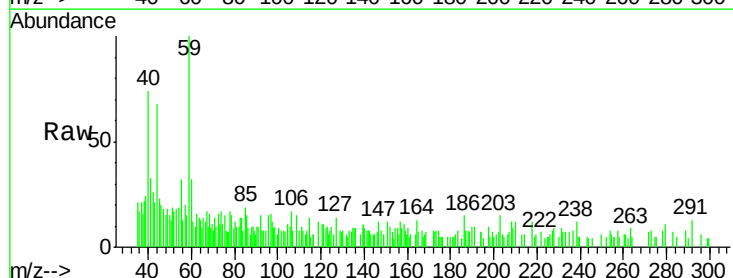
Instrument :
MSVOA_X
ClientSampled :
MW-6

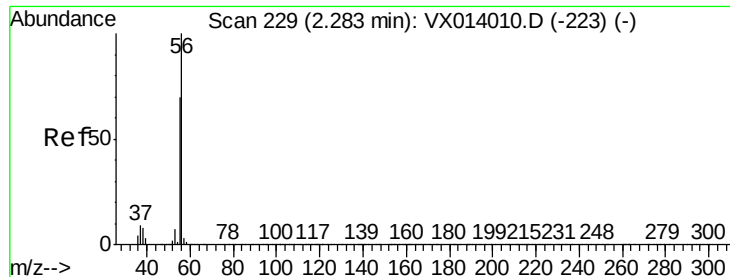
Tgt Ion: 142 Resp: 380
Ion Ratio Lower Upper
142 100
127 46.1 31.6 47.4
141 137.1 11.6 17.4#



#11
Tert butyl alcohol
Concen: 1.781 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014178.D
Acq: 20 Dec 2019 16:49

Tgt Ion: 59 Resp: 2457
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: 0.409 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

Instrument :

MSVOA_X

ClientSampled :

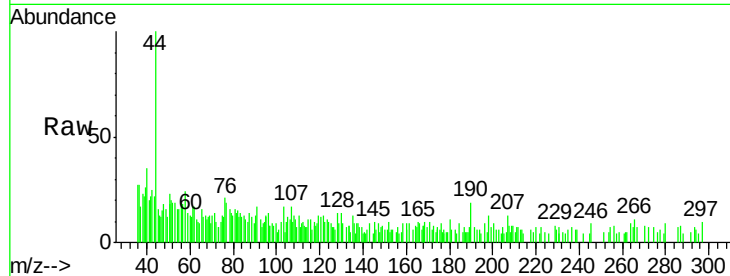
MW-6

Tgt Ion: 56 Resp: 323

Ion Ratio Lower Upper

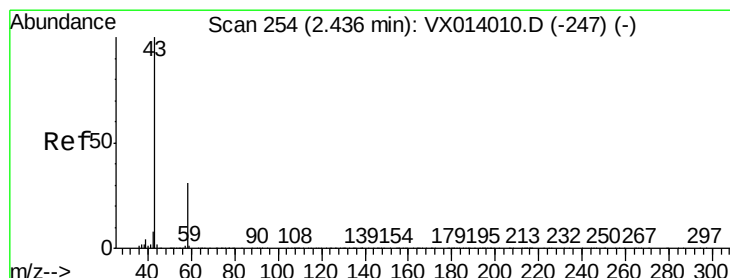
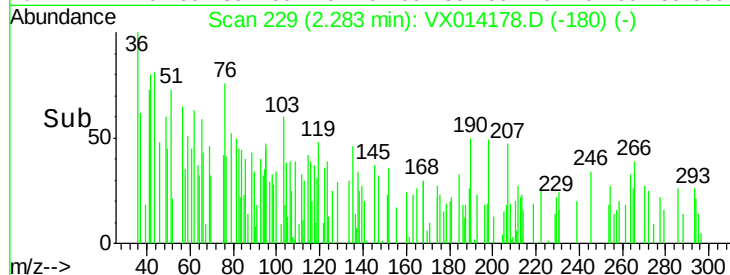
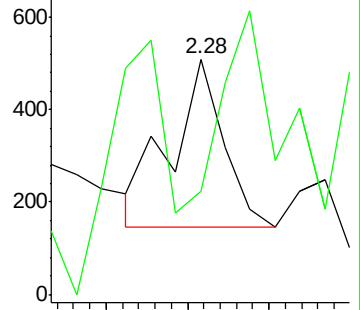
56 100

55 246.1 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.708 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014178.D

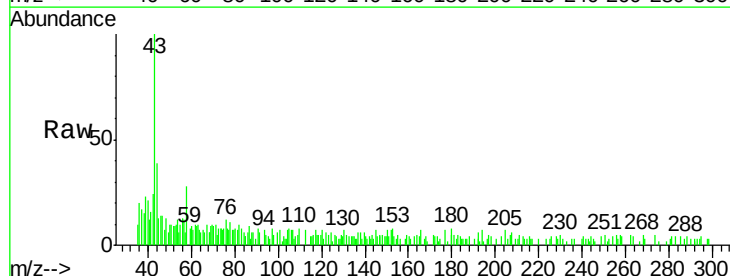
Acq: 20 Dec 2019 16:49

Tgt Ion: 43 Resp: 2937

Ion Ratio Lower Upper

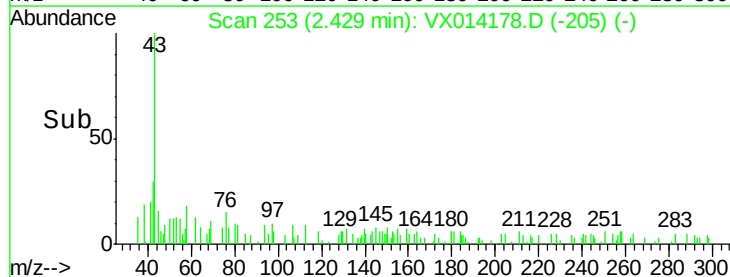
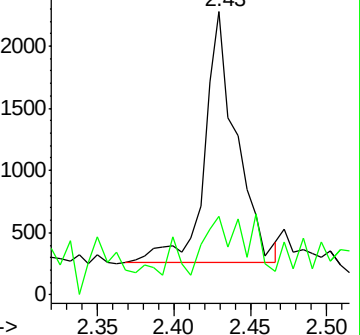
43 100

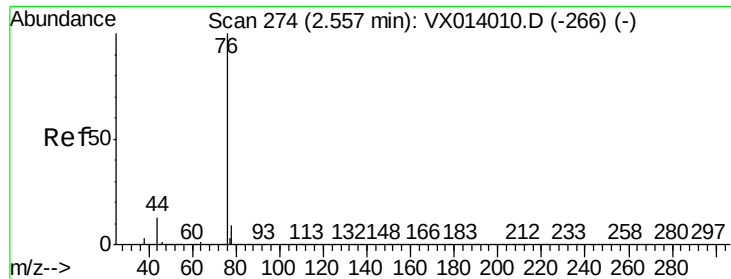
58 21.6 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.804 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

Instrument :

MSVOA_X

ClientSampled :

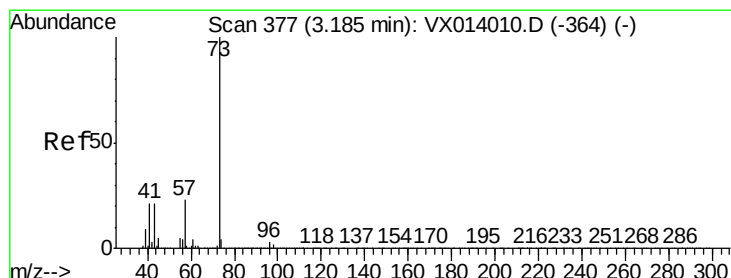
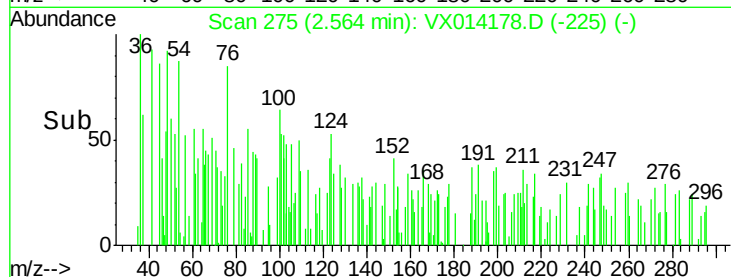
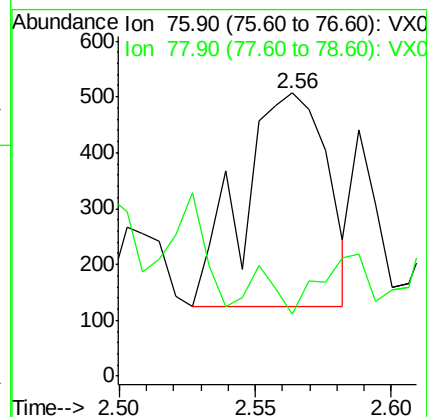
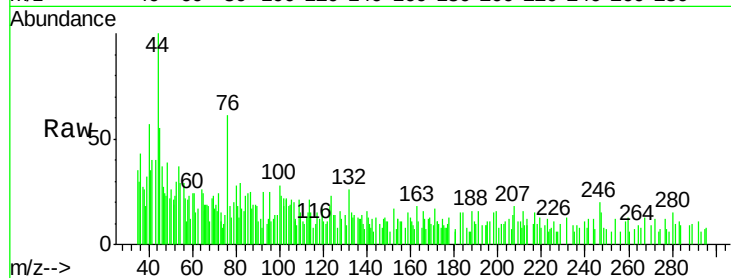
MW-6

Tgt Ion: 76 Resp: 820

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#19

Methyl tert-butyl Ether

Concen: 2.986 ug/l

RT: 3.19 min Scan# 377

Delta R.T. 0.00 min

Lab File: VX014178.D

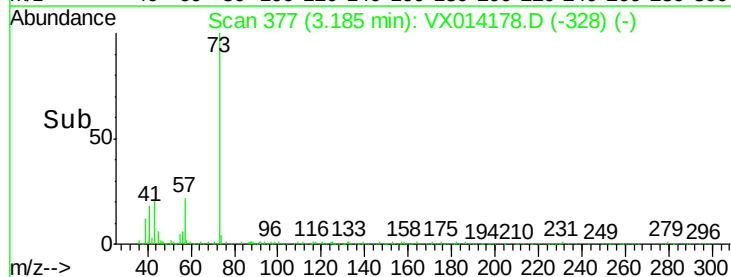
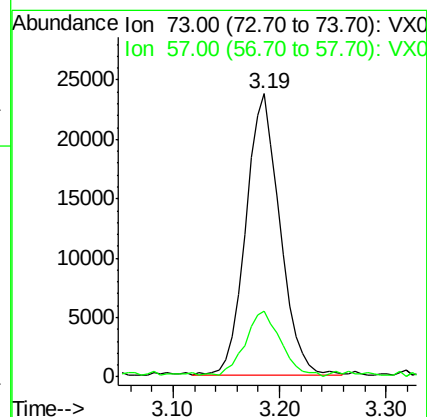
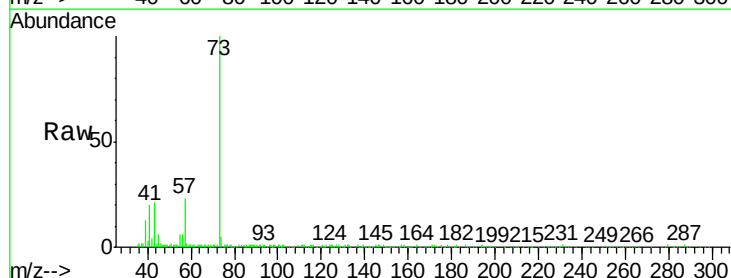
Acq: 20 Dec 2019 16:49

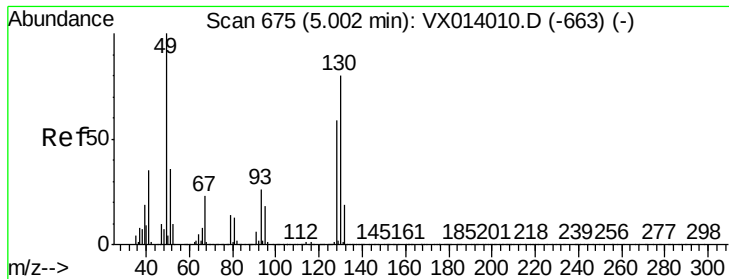
Tgt Ion: 73 Resp: 53180

Ion Ratio Lower Upper

73 100

57 22.3 18.8 28.2





#28

Bromochloromethane

Concen: 0.516 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

MW-6

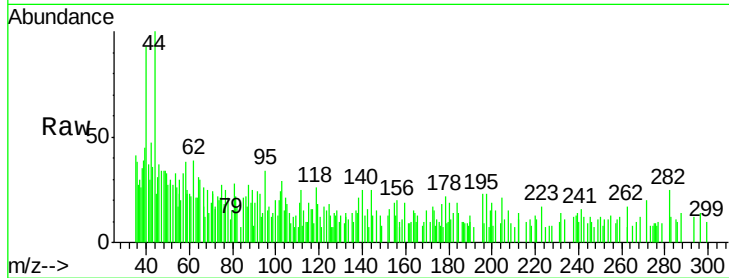
Tgt Ion: 49 Resp: 258

Ion Ratio Lower Upper

49 100

129 217.4 0.0 5.0#

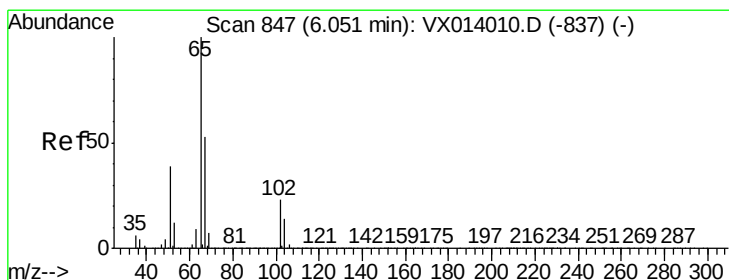
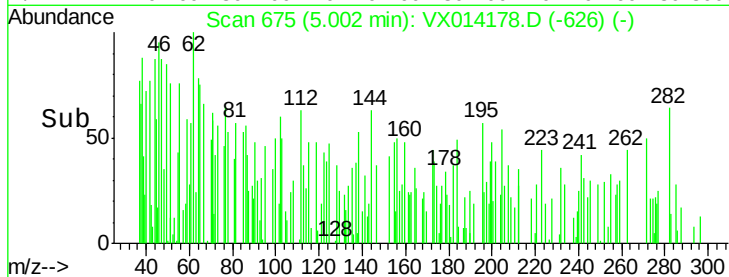
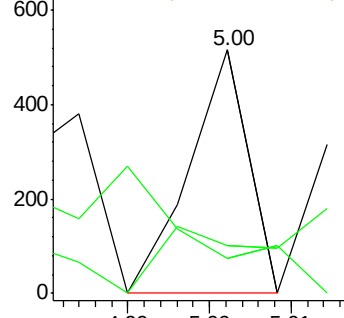
130 0.0 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 48.324 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014178.D

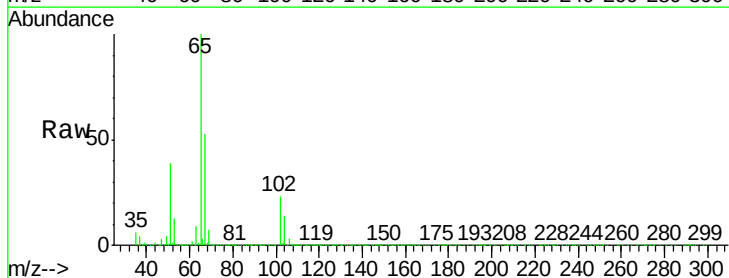
Acq: 20 Dec 2019 16:49

Tgt Ion: 65 Resp: 308581

Ion Ratio Lower Upper

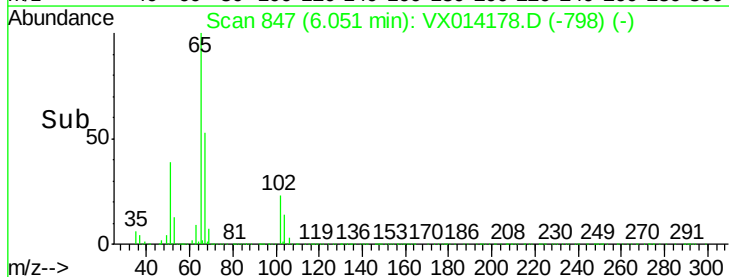
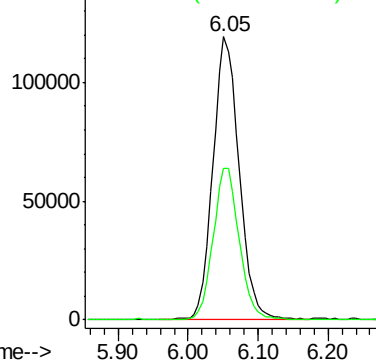
65 100

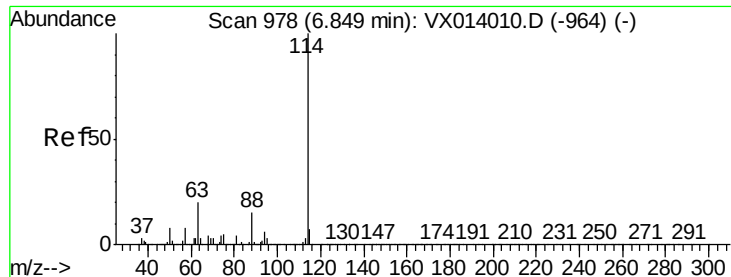
67 53.2 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

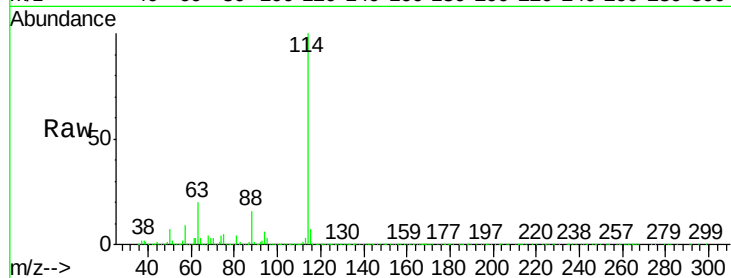
Instrument :

MSVOA_X

ClientSampleId :

MW-6

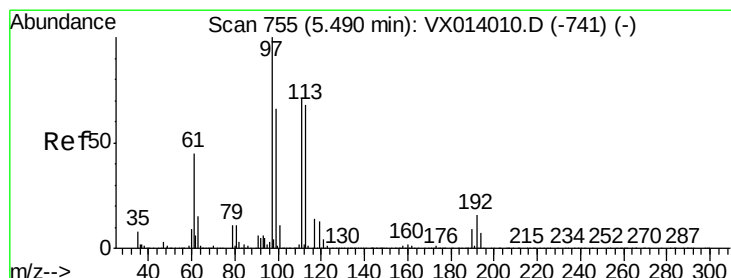
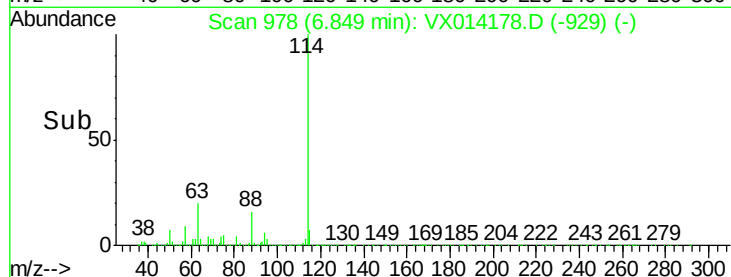
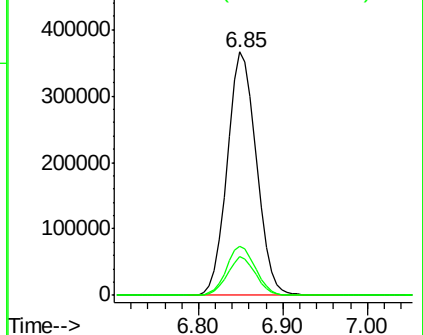
Tgt Ion:	114	Resp:	861640
Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.8
88	15.7	0.0	30.4



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: 47.873 ug/l

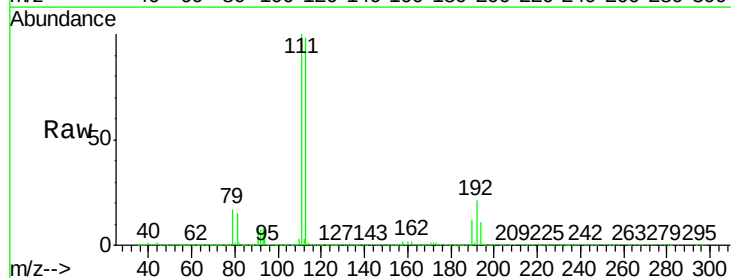
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

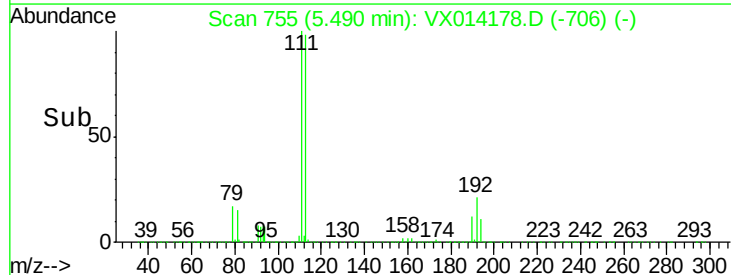
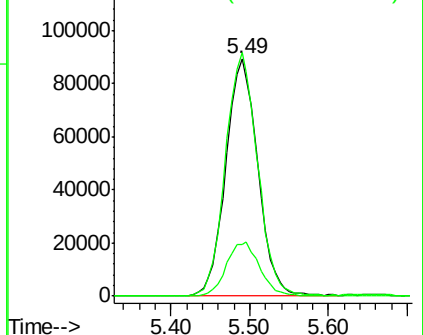
Tgt Ion:	113	Resp:	250749
Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.0	123.0
192	23.4	19.3	28.9

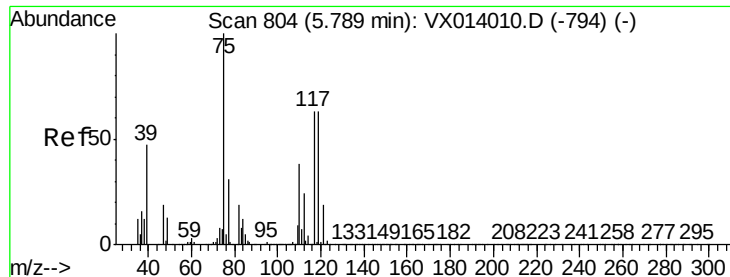


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.717 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

Instrument :

MSVOA_X

ClientSampled :

MW-6

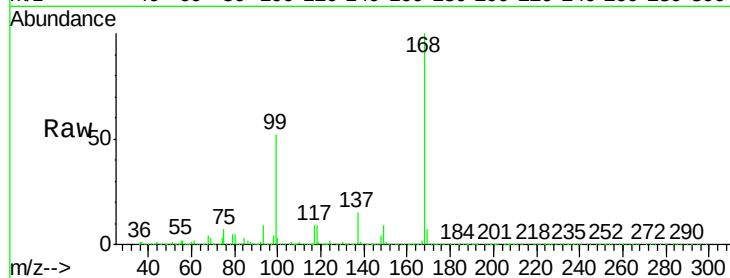
Tgt Ion: 75 Resp: 37296

Ion Ratio Lower Upper

75 100

110 9.2 18.3 54.9#

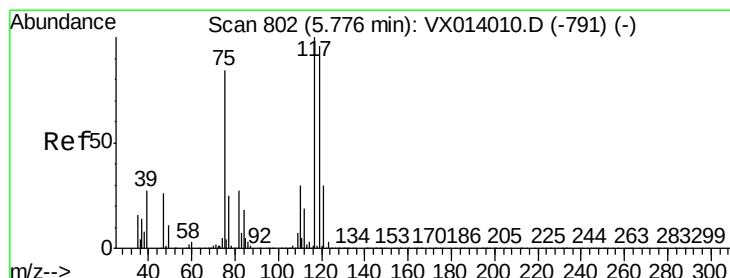
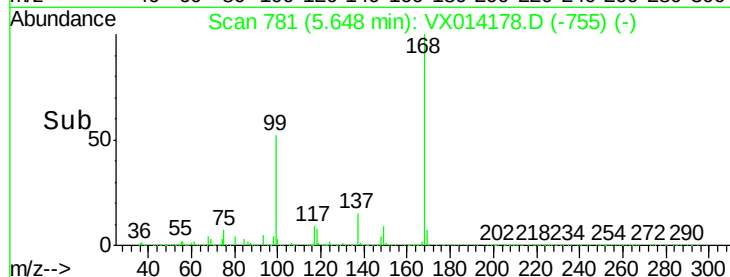
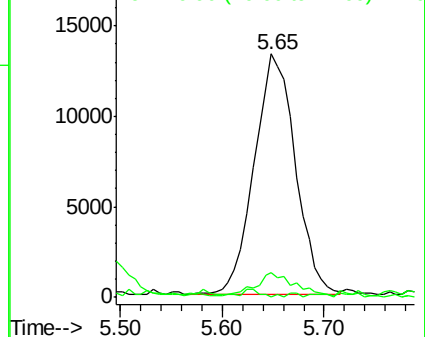
77 0.6 24.8 37.2#



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: 6.917 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

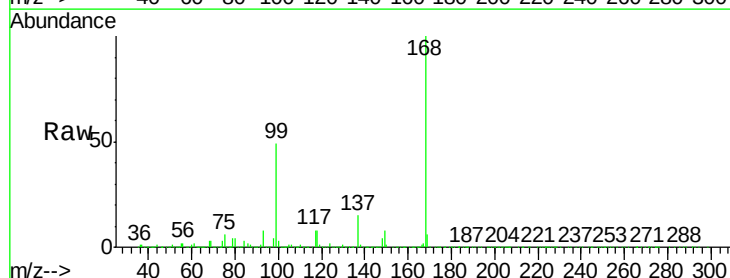
Tgt Ion: 117 Resp: 49821

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.4#

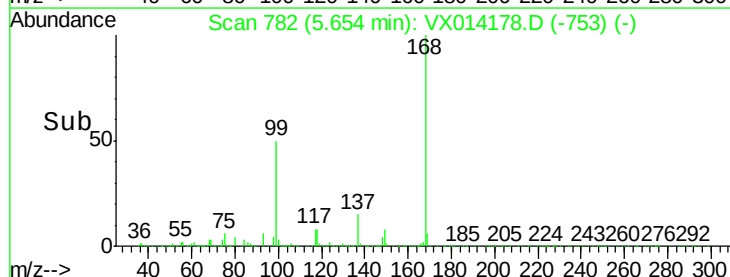
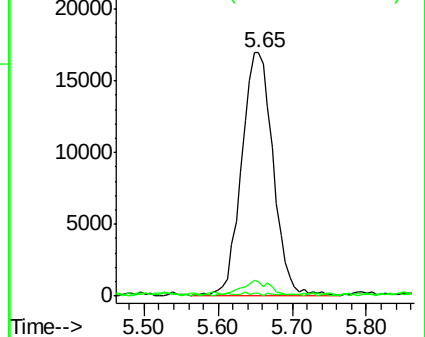
121 0.8 23.6 35.4#

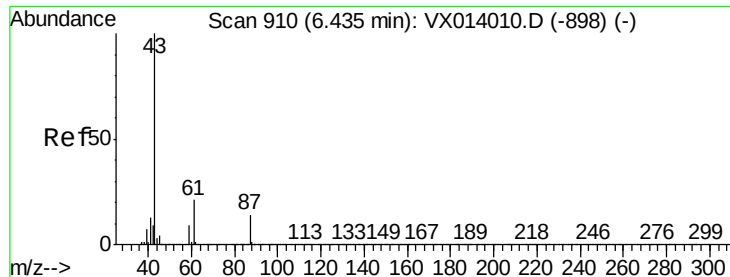


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 3.159 ug/l

RT: 6.34 min Scan# 894

Delta R.T. -0.10 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

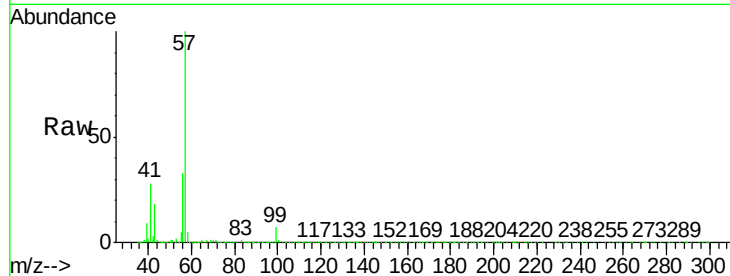
Instrument :

MSVOA_X

ClientSampled :

MW-6

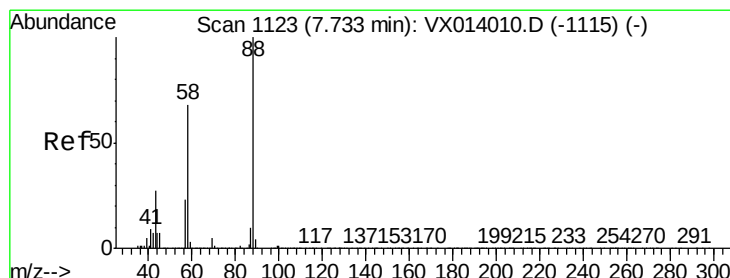
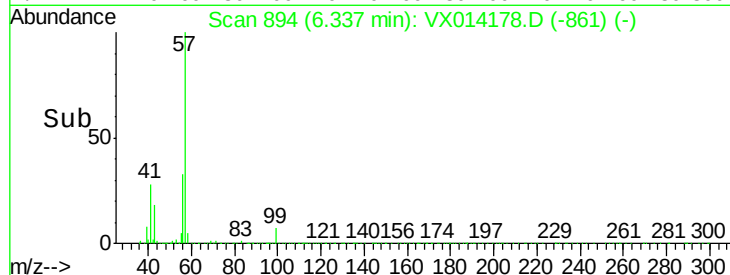
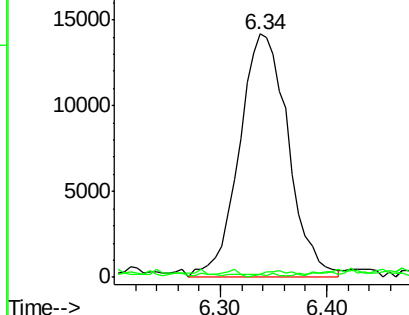
Tgt Ion:	43	Resp:	45639
Ion	Ratio	Lower	Upper
43	100		
61	1.1	16.4	24.6#
87	0.8	10.7	16.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#49

1,4-Dioxane

Concen: 1.938 ug/l

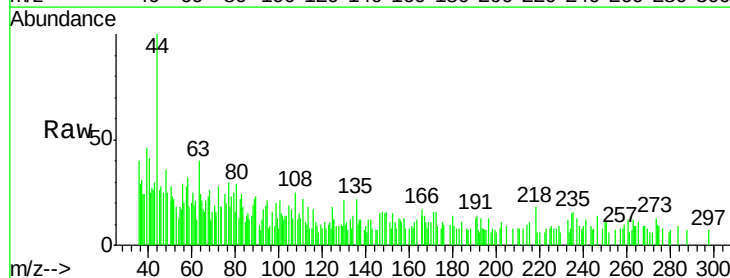
RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

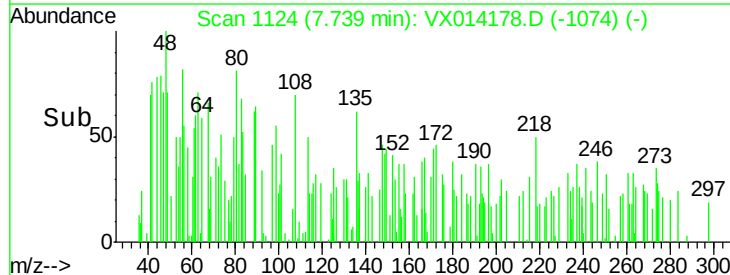
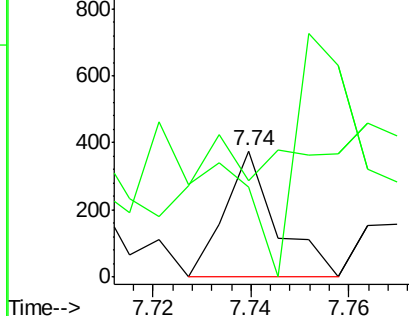
Tgt Ion:	88	Resp:	279
Ion	Ratio	Lower	Upper
88	100		
43	352.3	26.5	39.7#
58	58.8	56.8	85.2

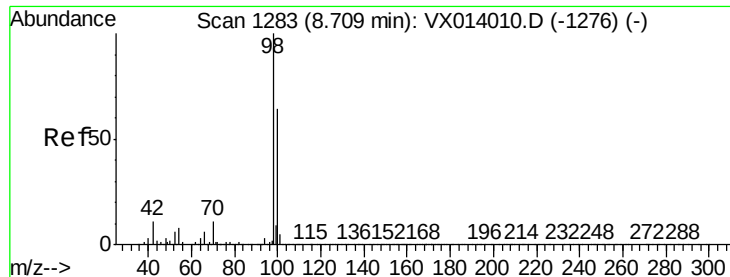


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.041 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

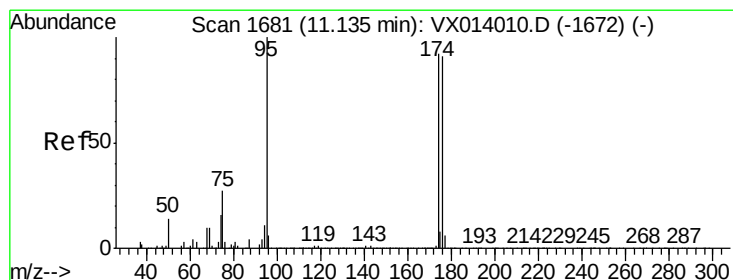
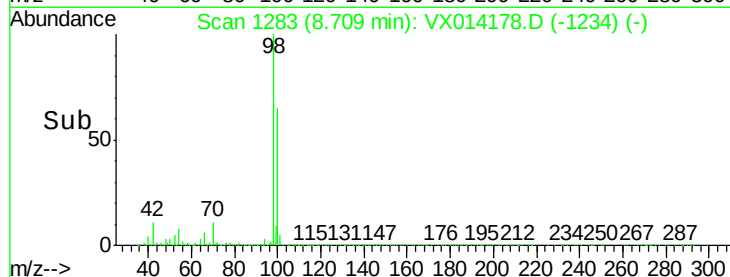
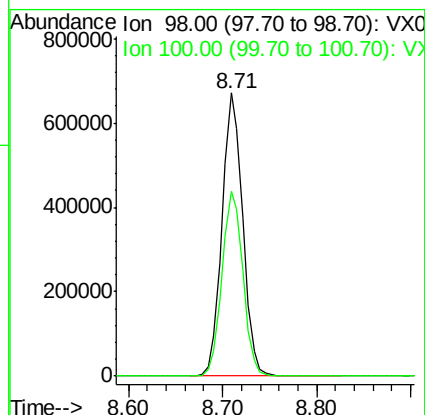
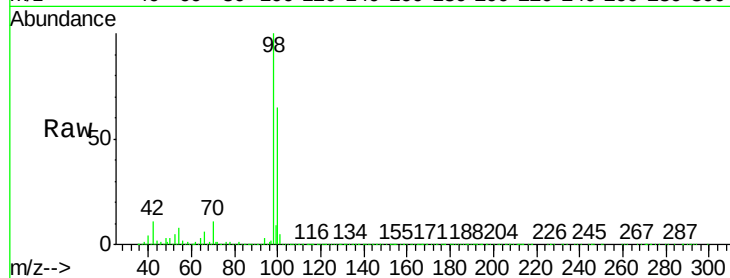
MW-6

Tgt Ion: 98 Resp: 1020439

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 45.775 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

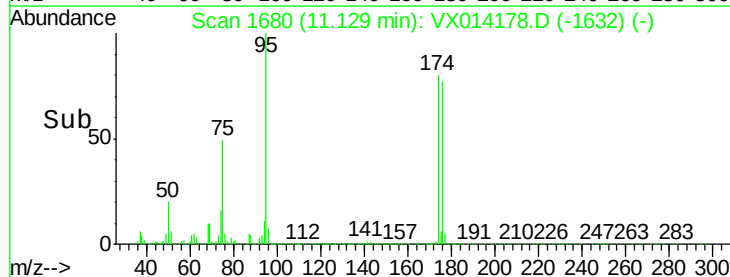
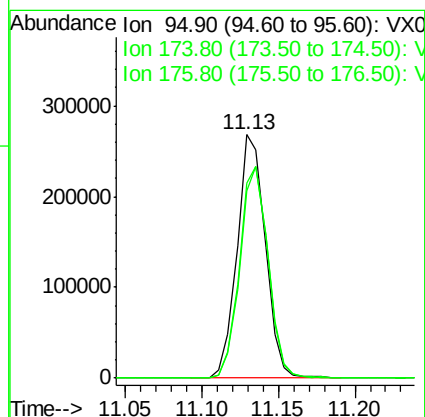
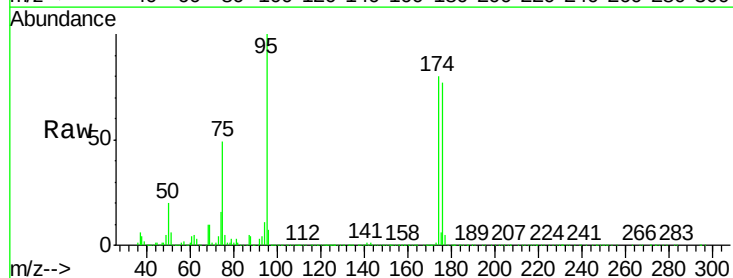
Tgt Ion: 95 Resp: 341221

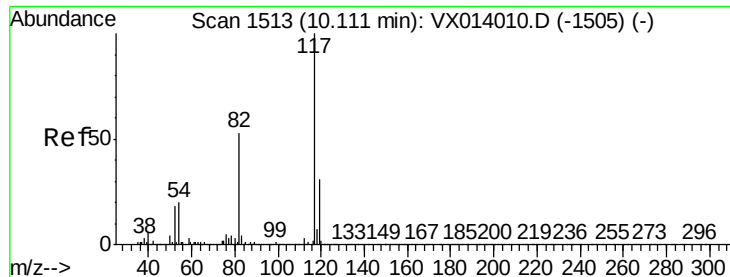
Ion Ratio Lower Upper

95 100

174 89.3 0.0 175.8

176 87.0 0.0 173.0

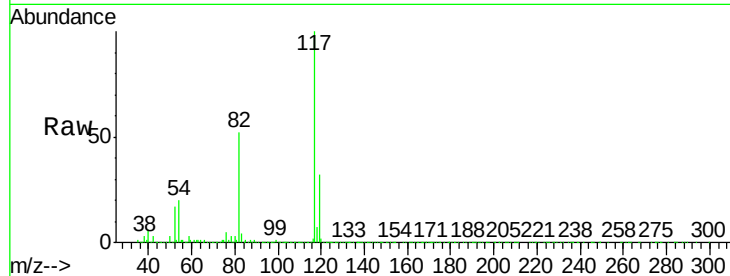




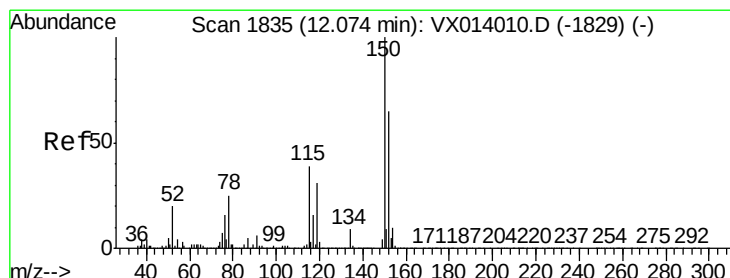
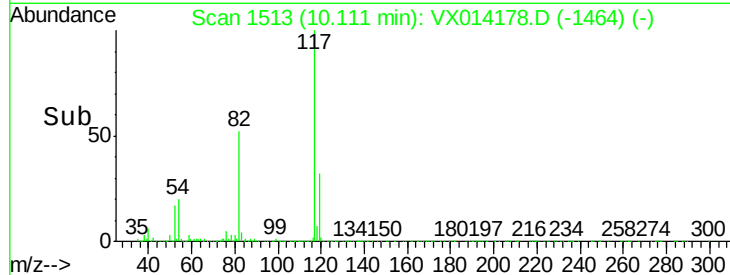
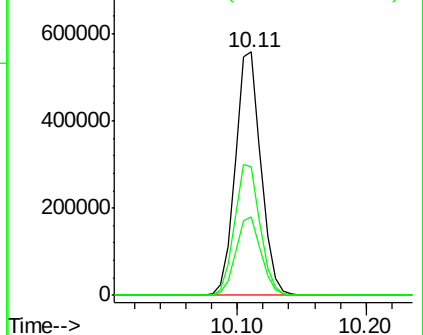
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014178.D
Acq: 20 Dec 2019 16:49

Instrument :
MSVOA_X
ClientSampled :
MW-6

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.2	63.4
119	32.4	25.1	37.7

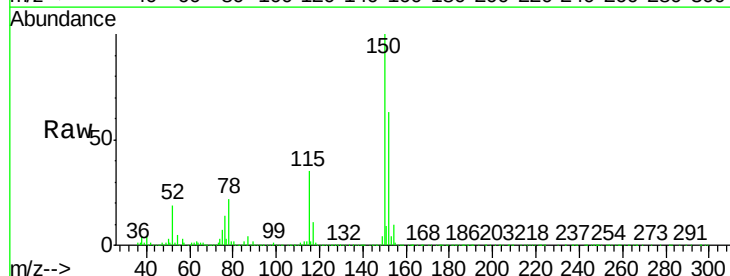


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

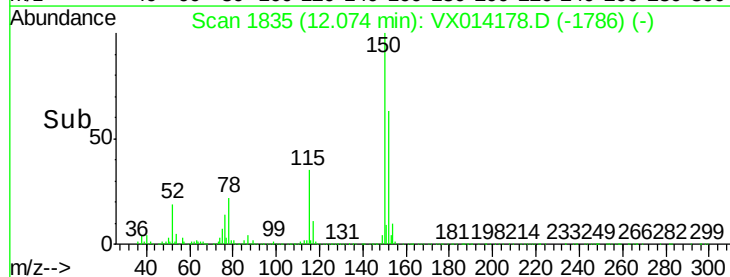
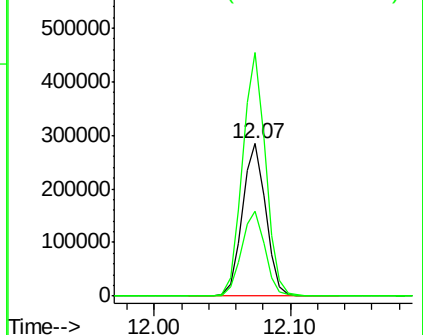


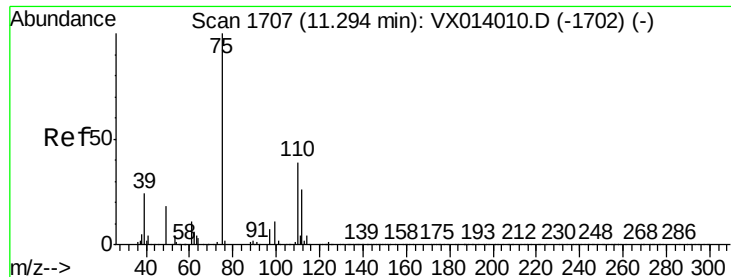
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014178.D
Acq: 20 Dec 2019 16:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	38.3	114.9
150	156.6	0.0	345.4



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: 22.692 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

Instrument :

MSVOA_X

ClientSampled :

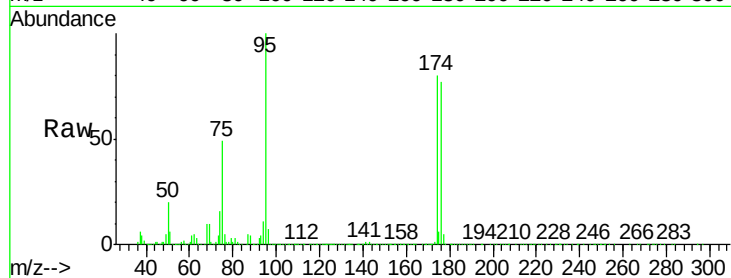
MW-6

Tgt Ion: 75 Resp: 168267

Ion Ratio Lower Upper

75 100

77 1.6 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

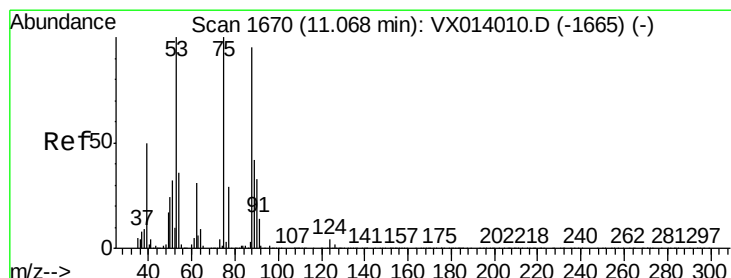
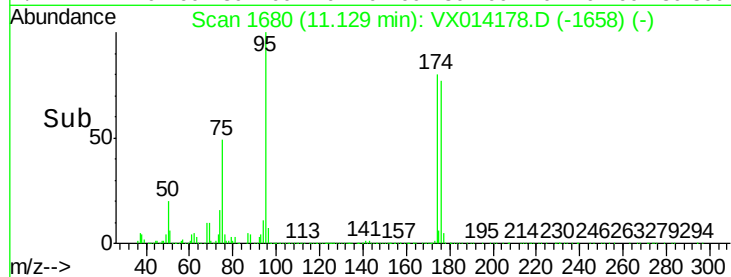
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 64.048 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

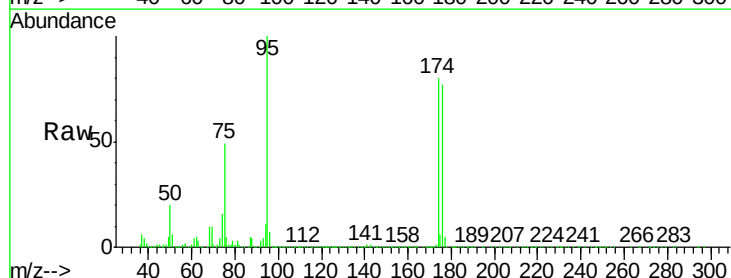
Tgt Ion: 75 Resp: 168267

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 34.6 51.8#



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

11.13

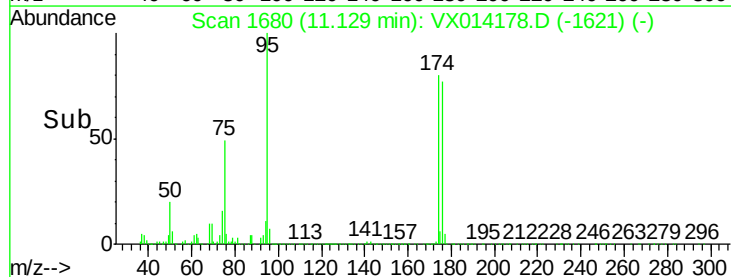
150000

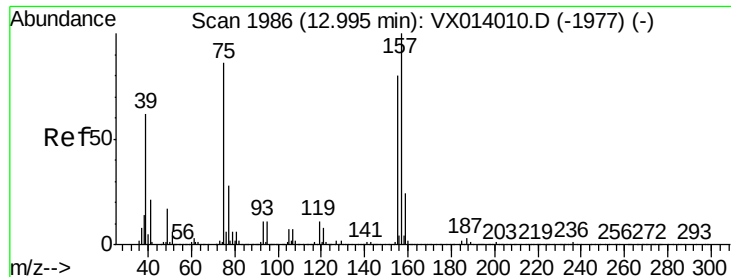
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.221 ug/l

RT: 12.99 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VX014178.D

Acq: 20 Dec 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

MW-6

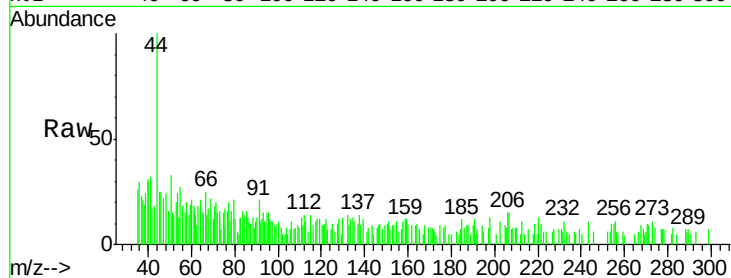
Tgt Ion: 75 Resp: 407

Ion Ratio Lower Upper

75 100

155 55.5 46.9 140.6

157 168.6 60.8 182.4



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

