

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122319\
 Data File : VX014211.D
 Acq On : 23 Dec 2019 18:43
 Operator : JC/SP
 Sample : K6387-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Quant Time: Dec 24 01:32:58 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	562621	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	863833	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	775631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	348612	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	309713	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
35) Dibromofluoromethane	5.49	113	255613	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
50) Toluene-d8	8.71	98	1020689	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
62) 4-Bromofluorobenzene	11.14	95	348236	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	

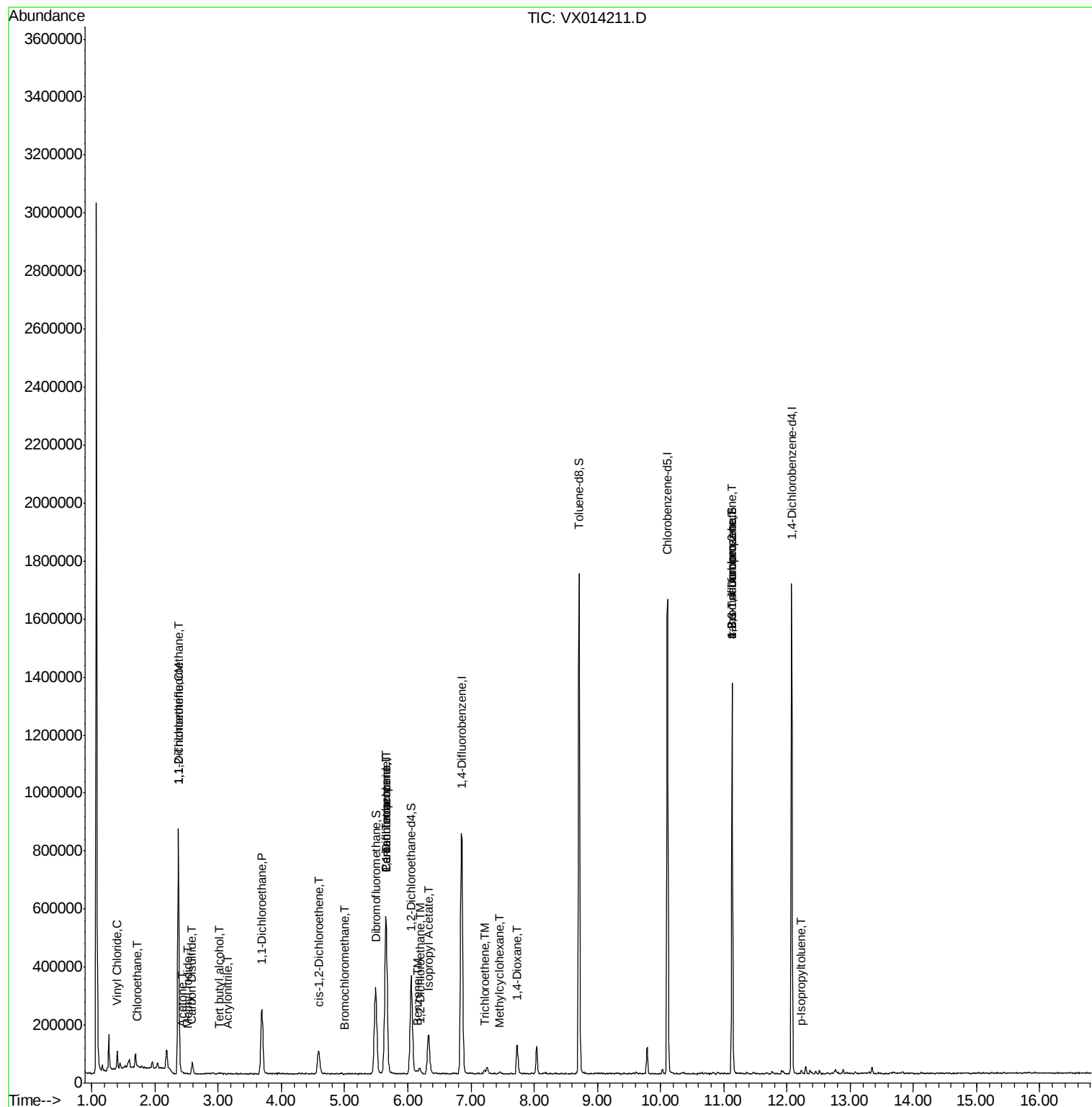
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	40259	5.648	ug/l	98
6) Chloroethane	1.73	64	3856	0.877	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1209	0.227	ug/l #	34
10) Methyl Iodide	2.52	142	619	2.704	ug/l #	70
11) Tert butyl alcohol	3.02	59	1762	1.279	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	281286	51.974	ug/l	98
15) Acrylonitrile	3.15	53	964	0.300	ug/l #	31
16) Acetone	2.43	43	6007	1.451	ug/l	96
17) Carbon Disulfide	2.57	76	804	0.803	ug/l #	77
24) 1,1-Dichloroethane	3.69	63	260310	24.298	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	52326	7.760	ug/l	86
28) Bromochloromethane	5.00	49	510	0.576	ug/l #	36
36) 1,1-Dichloropropene	5.65	75	36744	4.636	ug/l #	51
38) Carbon Tetrachloride	5.65	117	48130	6.666	ug/l #	16
39) Methylcyclohexane	7.45	83	3889	0.397	ug/l #	89
40) Benzene	6.14	78	11710	0.480	ug/l #	90
42) 1,2-Dichloroethane	6.19	62	20568	2.488	ug/l	95
43) Isopropyl Acetate	6.33	43	37154	2.565	ug/l #	62
44) Trichloroethene	7.21	130	6214	0.922	ug/l	95
49) 1,4-Dioxane	7.73	88	75056	519.975	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	168260	22.232	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	168260	62.751	ug/l #	18
86) p-Isopropyltoluene	12.23	119	6366	0.293	ug/l	83

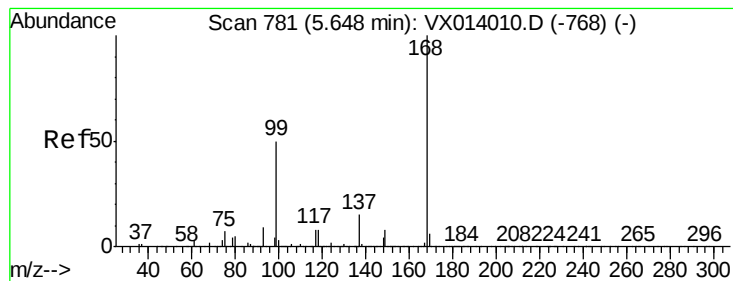
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
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: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampled :

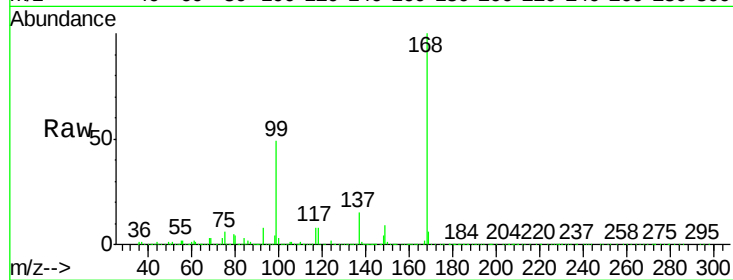
MW-2

Tgt Ion:168 Resp: 562621

Ion Ratio Lower Upper

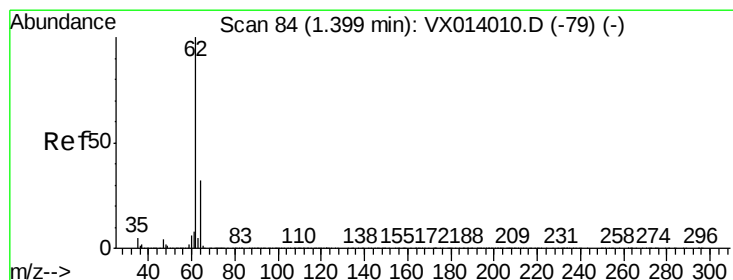
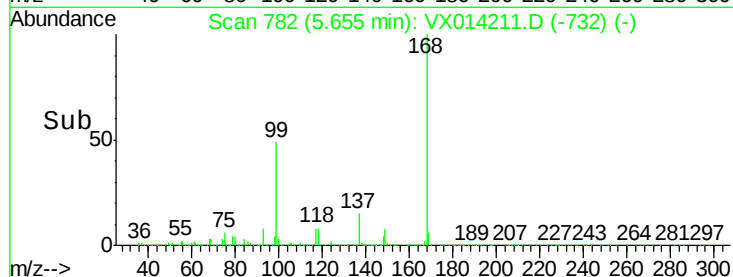
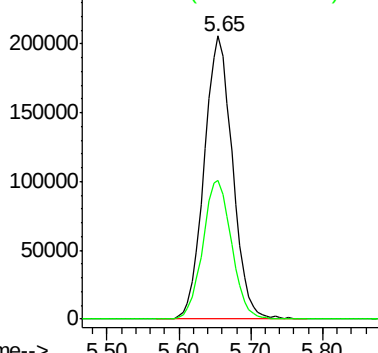
168 100

99 49.1 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 5.648 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX014211.D

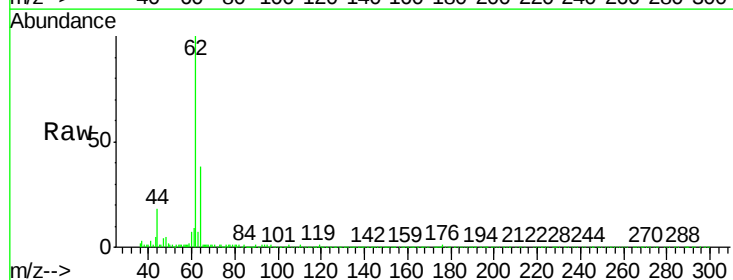
Acq: 23 Dec 2019 18:43

Tgt Ion: 62 Resp: 40259

Ion Ratio Lower Upper

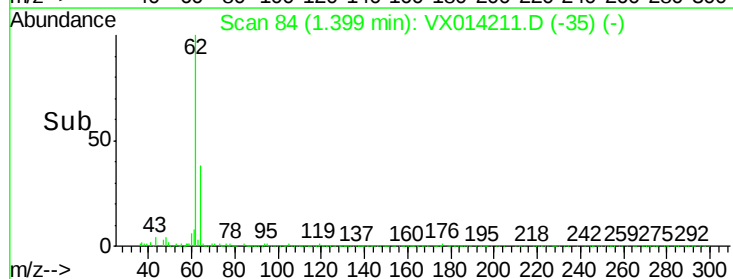
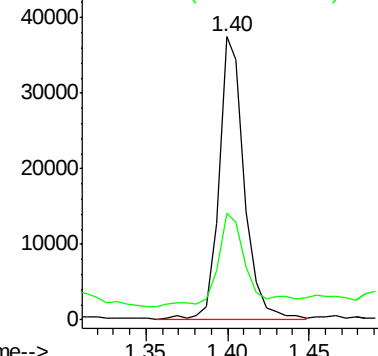
62 100

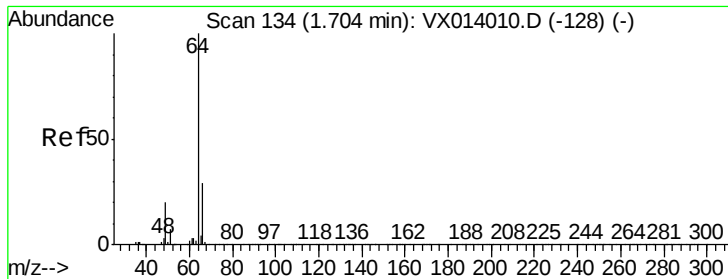
64 33.0 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#6

Chloroethane

Concen: 0.877 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

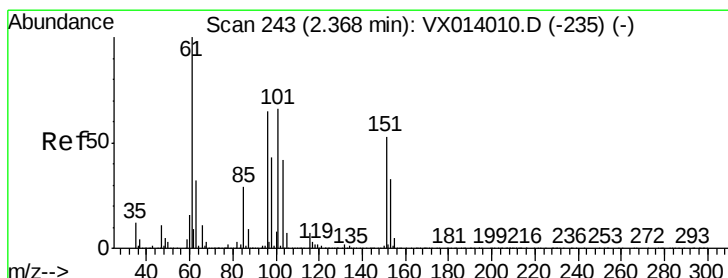
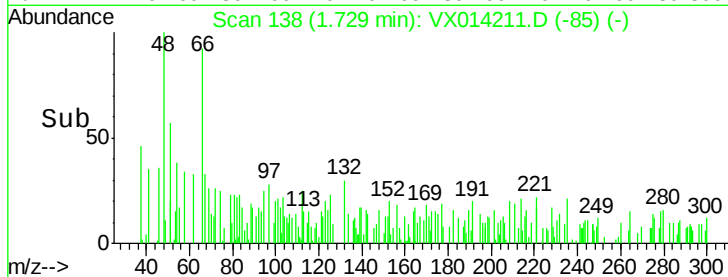
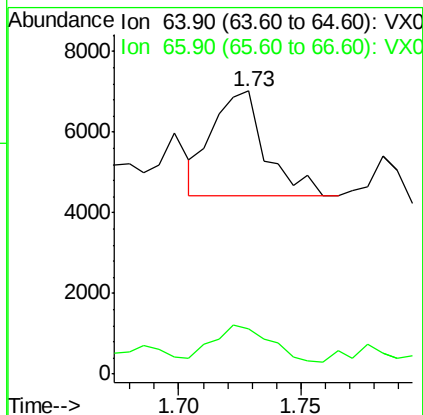
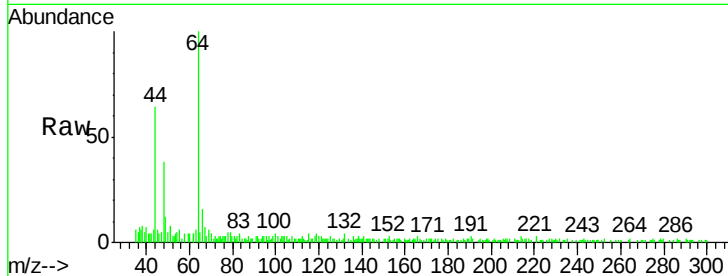
MW-2

Tgt Ion: 64 Resp: 3856

Ion Ratio Lower Upper

64 100

66 27.4 23.4 35.2



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.227 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

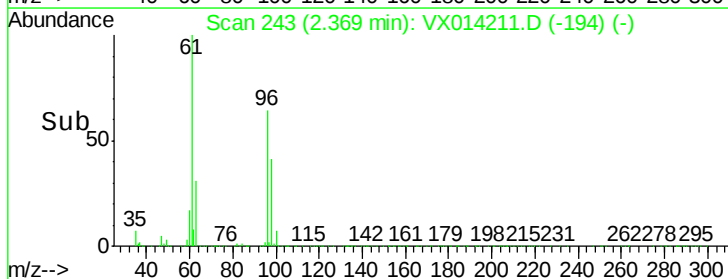
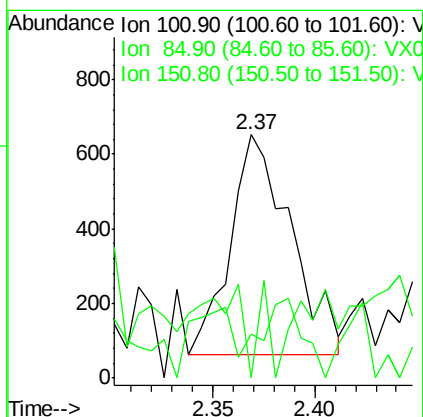
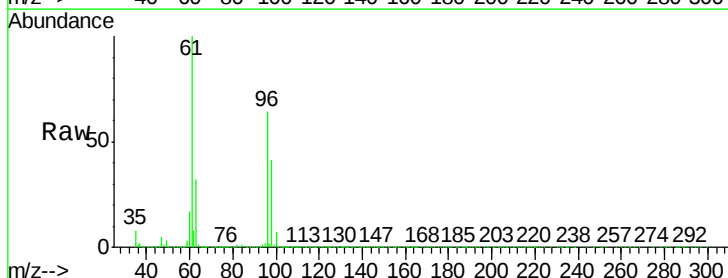
Tgt Ion: 101 Resp: 1209

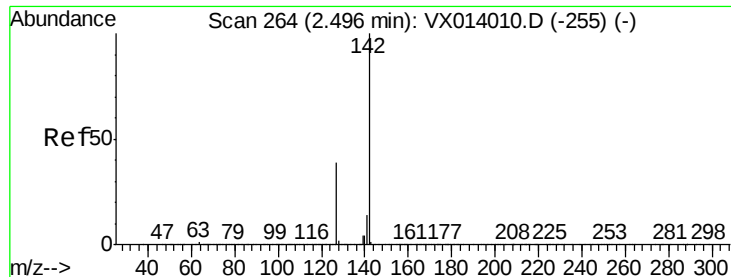
Ion Ratio Lower Upper

101 100

85 0.0 33.7 50.5#

151 22.2 64.5 96.7#





#10

Methyl Iodide

Concen: 2.704 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.03 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

MW-2

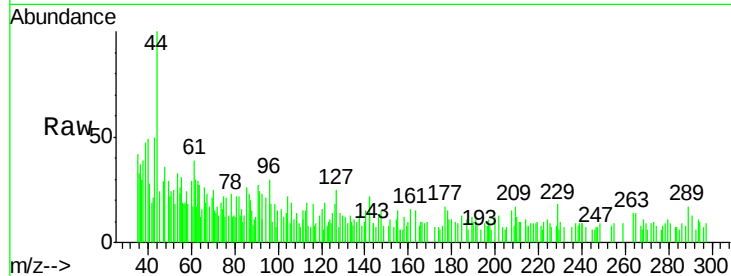
Tgt Ion: 142 Resp: 619

Ion Ratio Lower Upper

142 100

127 17.0 31.6 47.4#

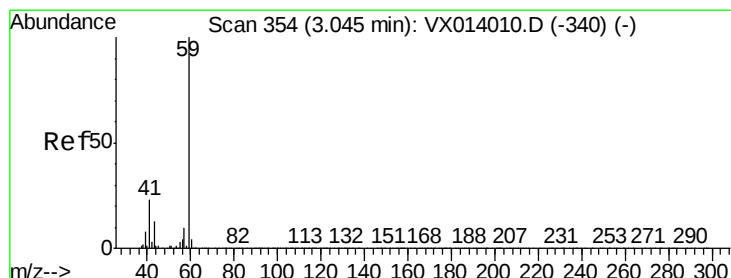
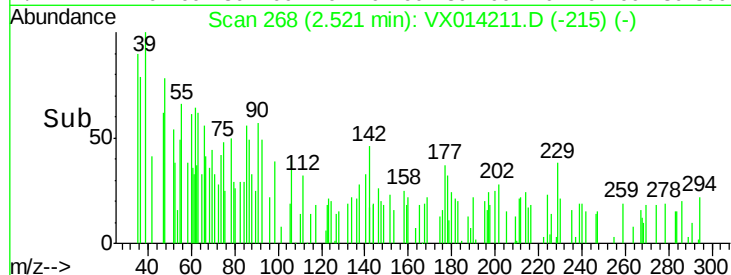
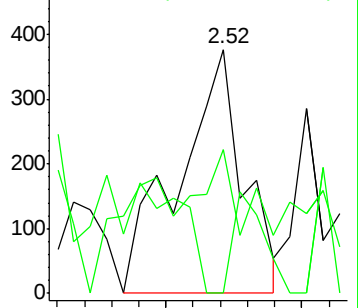
141 19.7 11.6 17.4#



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: 1.279 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX014211.D

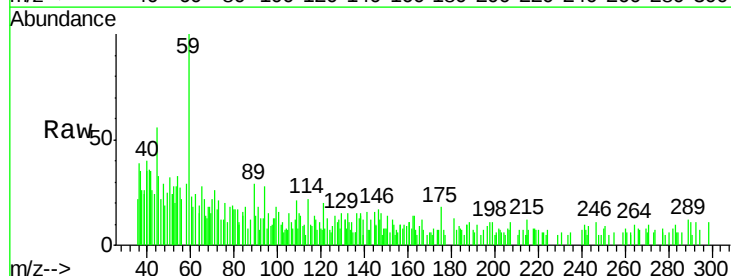
Acq: 23 Dec 2019 18:43

Tgt Ion: 59 Resp: 1762

Ion Ratio Lower Upper

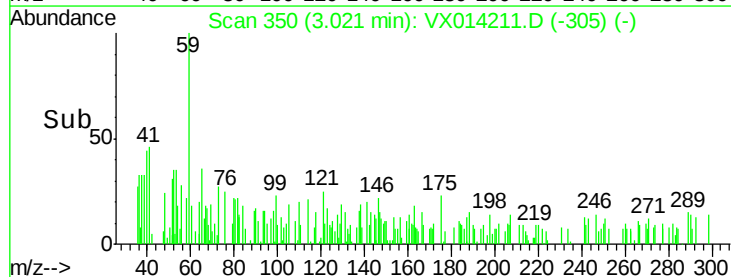
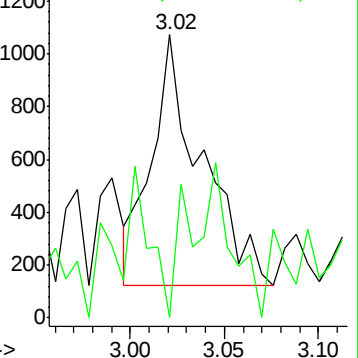
59 100

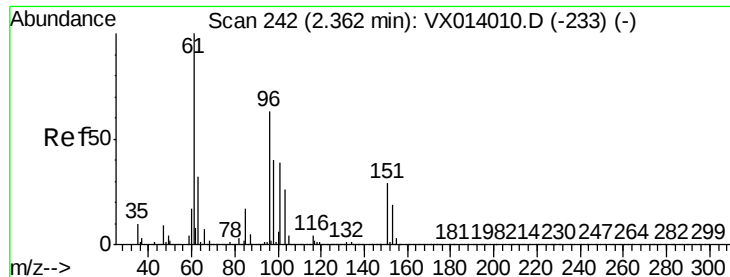
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 51.974 ug/l

RT: 2.37 min Scan# 243

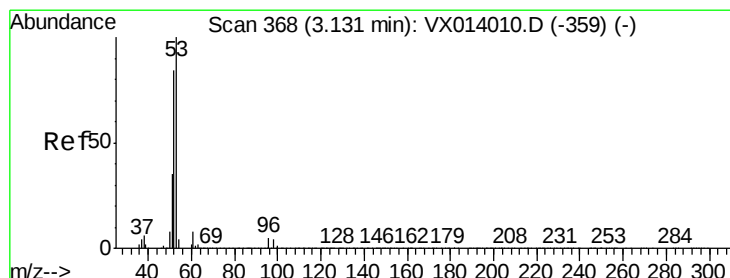
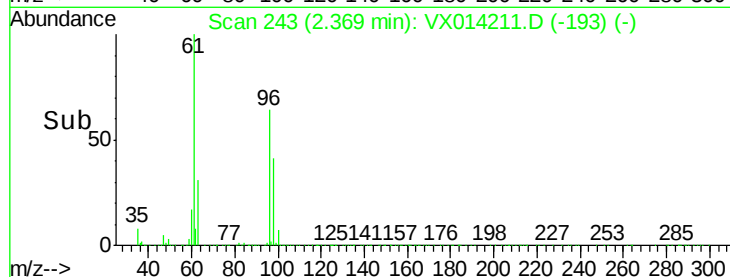
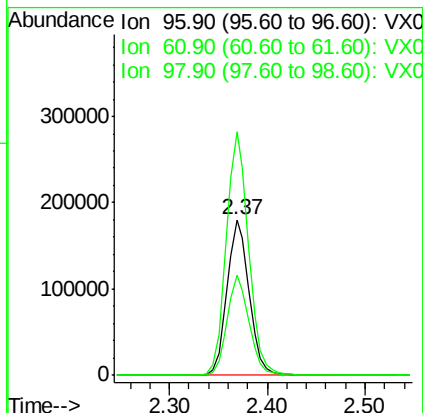
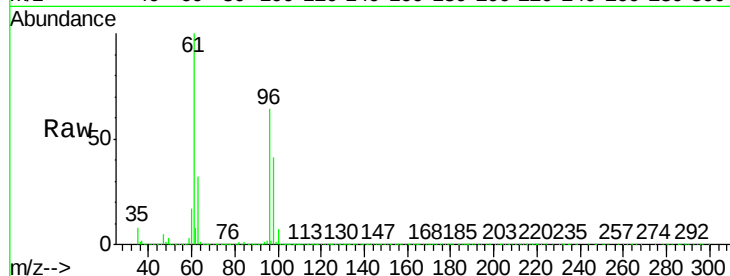
Delta R.T. 0.01 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :
MSVOA_X
ClientSampled :
MW-2

Tgt Ion:	96	Resp:	281286
Ion	Ratio	Lower	Upper
96	100		
61	156.1	127.9	191.9
98	63.9	50.5	75.7



#15

Acrylonitrile

Concen: 0.300 ug/l

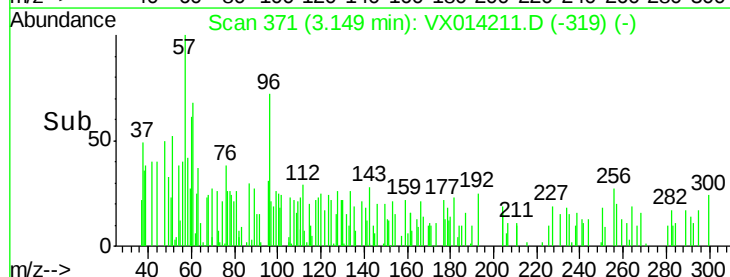
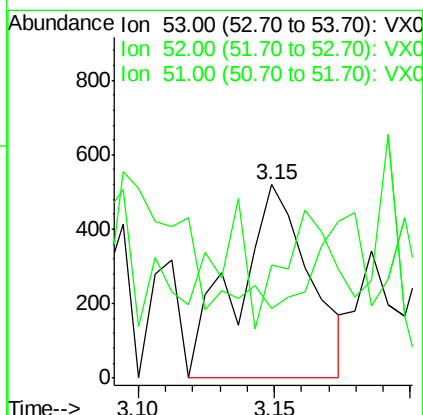
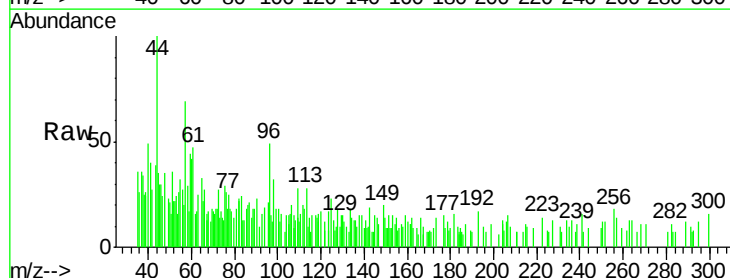
RT: 3.15 min Scan# 371

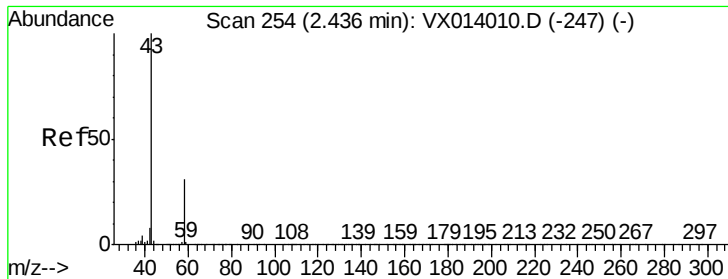
Delta R.T. 0.02 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Tgt Ion:	53	Resp:	964
Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.5	99.7#
51	43.9	28.1	42.1#





#16

Acetone

Concen: 1.451 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

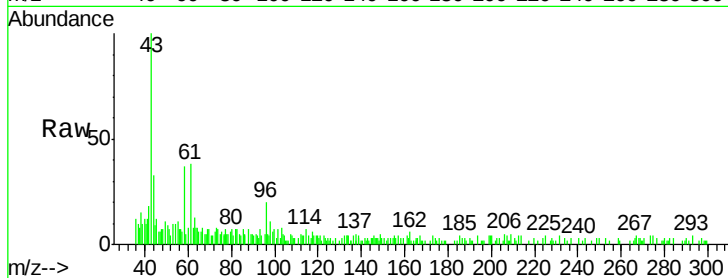
MW-2

Tgt Ion: 43 Resp: 6007

Ion Ratio Lower Upper

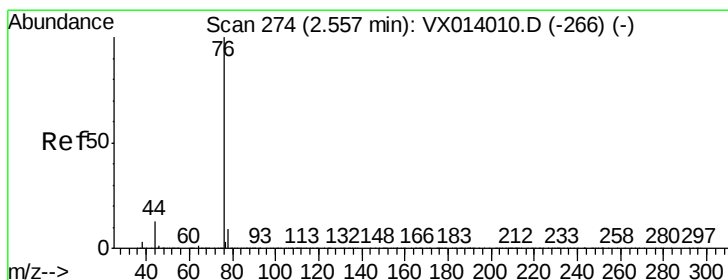
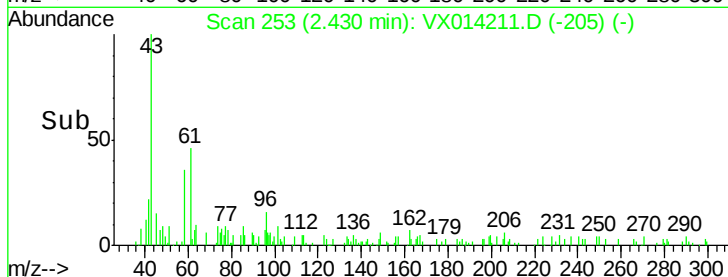
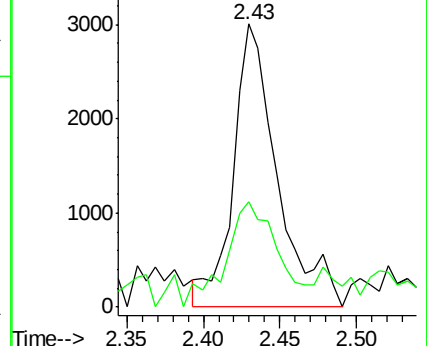
43 100

58 28.7 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: 0.803 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014211.D

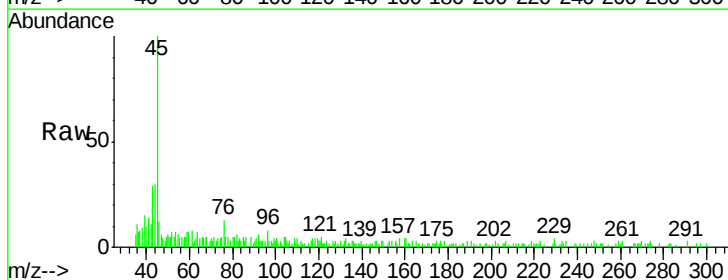
Acq: 23 Dec 2019 18:43

Tgt Ion: 76 Resp: 804

Ion Ratio Lower Upper

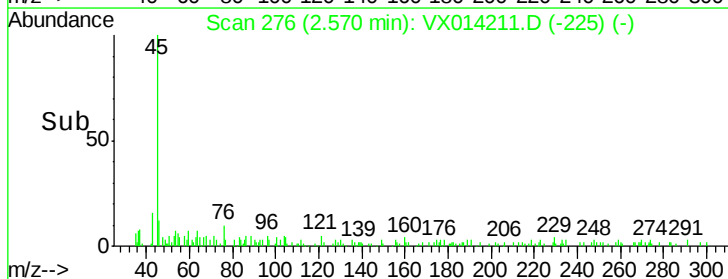
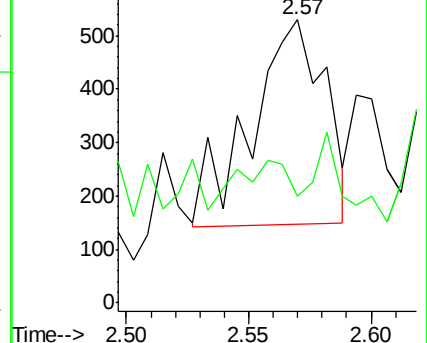
76 100

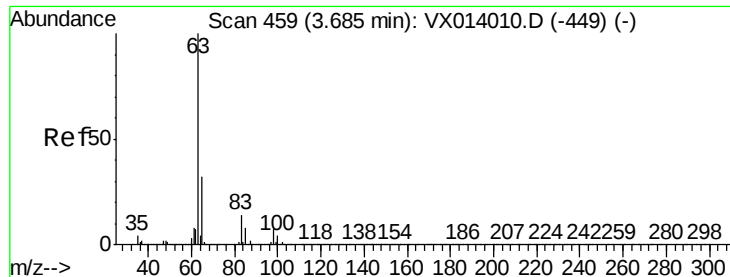
78 0.7 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#24

1,1-Dichloroethane

Concen: 24.298 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

MW-2

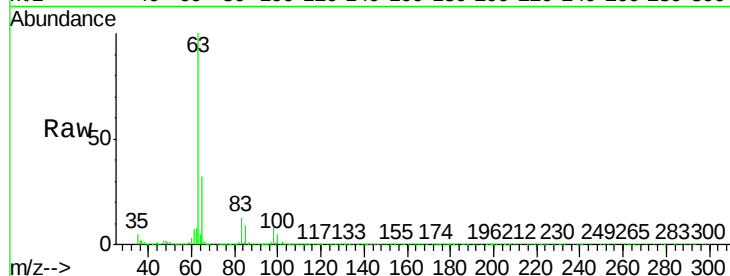
Tgt Ion: 63 Resp: 260310

Ion Ratio Lower Upper

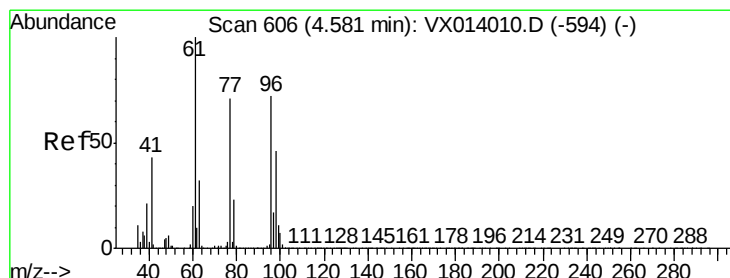
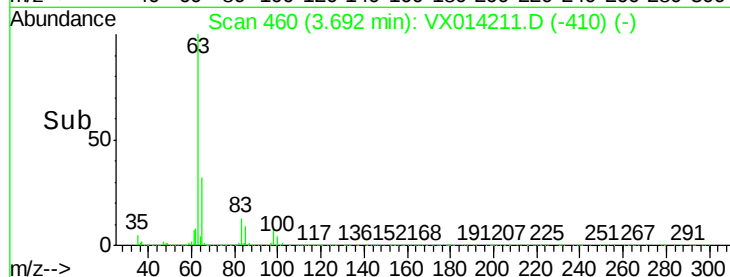
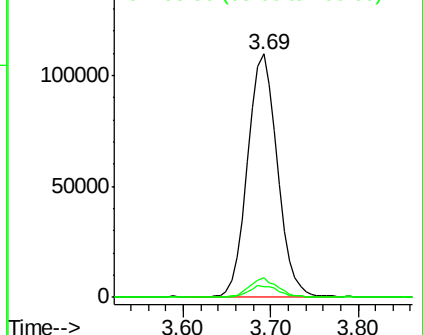
63 100

98 7.8 3.6 10.8

100 4.4 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 7.760 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

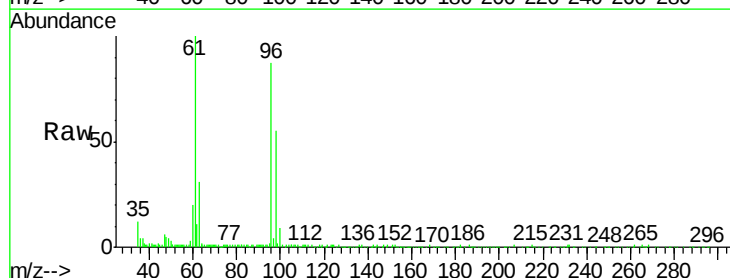
Tgt Ion: 96 Resp: 52326

Ion Ratio Lower Upper

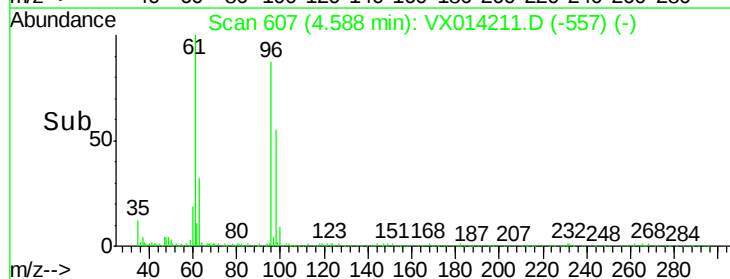
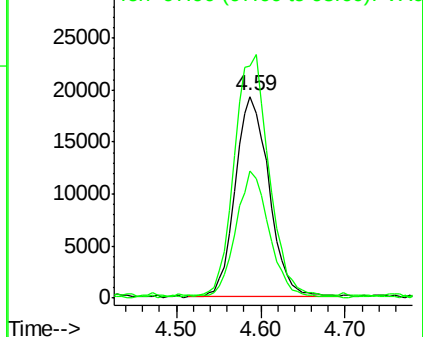
96 100

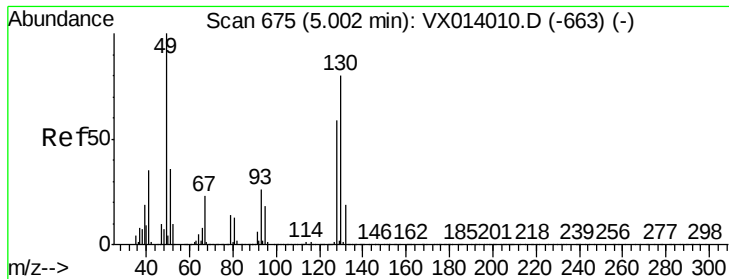
61 122.2 0.0 288.4

98 61.5 0.0 129.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: 0.576 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampled :

MW-2

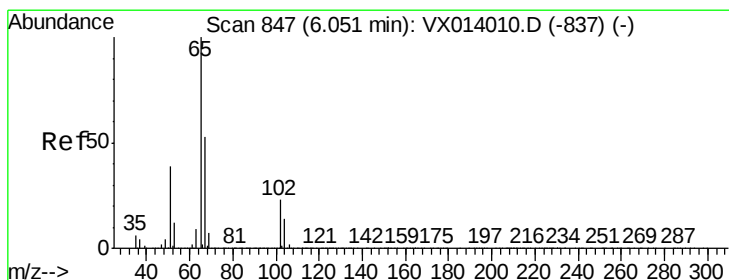
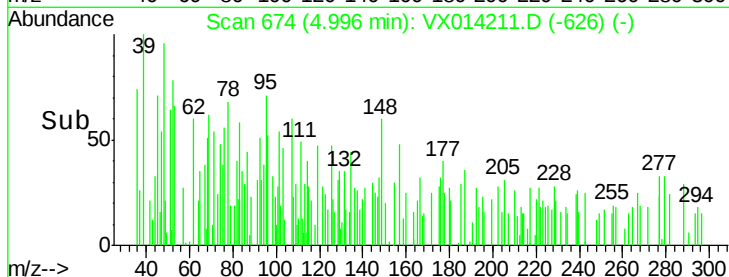
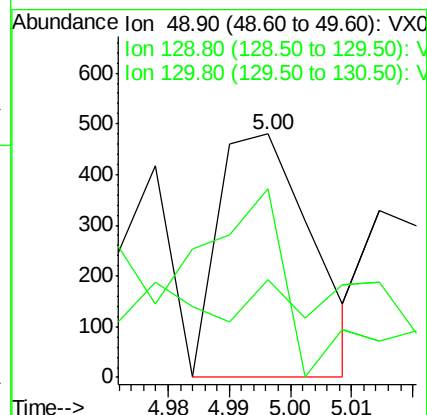
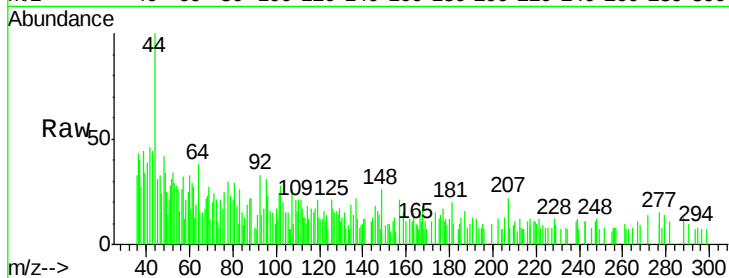
Tgt Ion: 49 Resp: 510

Ion Ratio Lower Upper

49 100

129 105.9 0.0 5.0#

130 30.4 64.6 97.0#



#33

1,2-Dichloroethane-d4

Concen: 48.571 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014211.D

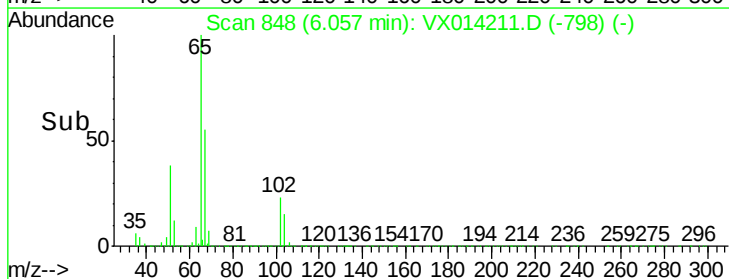
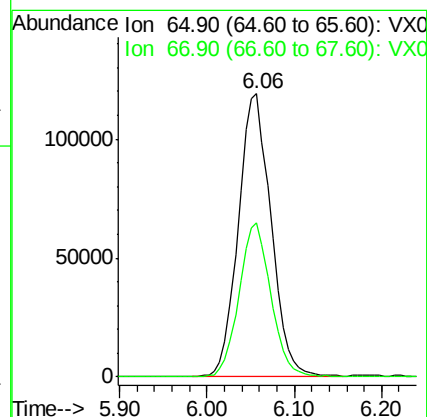
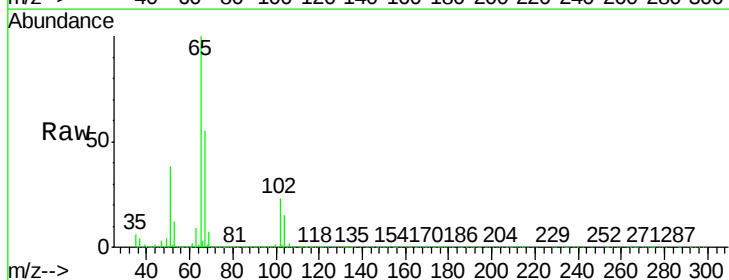
Acq: 23 Dec 2019 18:43

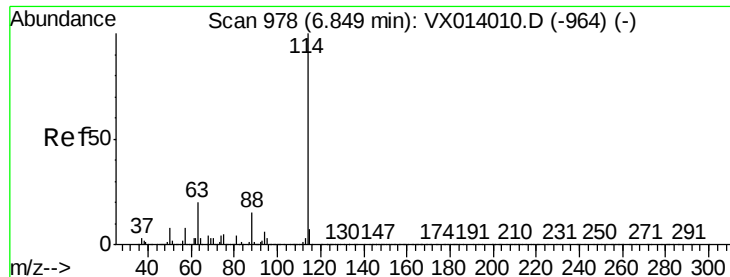
Tgt Ion: 65 Resp: 309713

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

MW-2

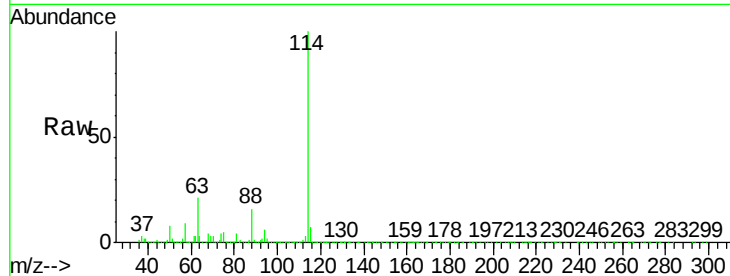
Tgt Ion:114 Resp: 863833

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

88 16.2 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

500000

400000

300000

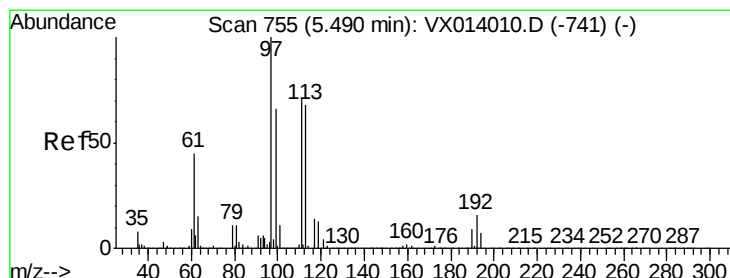
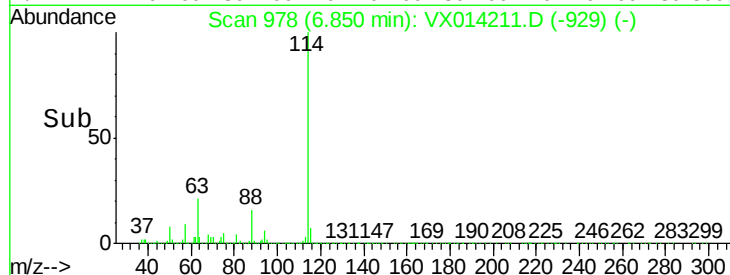
200000

100000

0

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 48.678 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

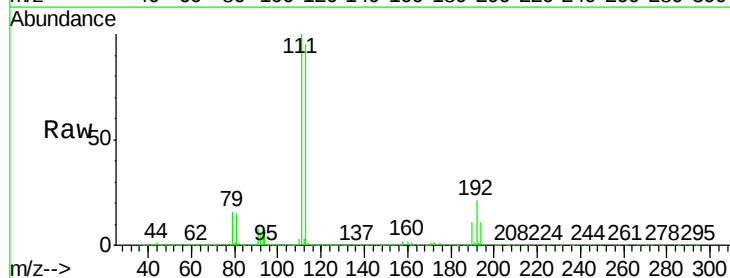
Tgt Ion:113 Resp: 255613

Ion Ratio Lower Upper

113 100

111 102.9 82.0 123.0

192 24.0 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

120000

100000

80000

60000

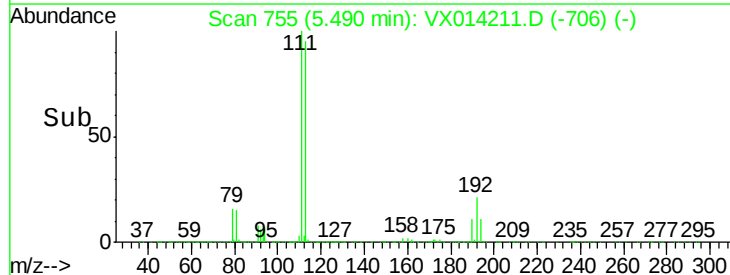
40000

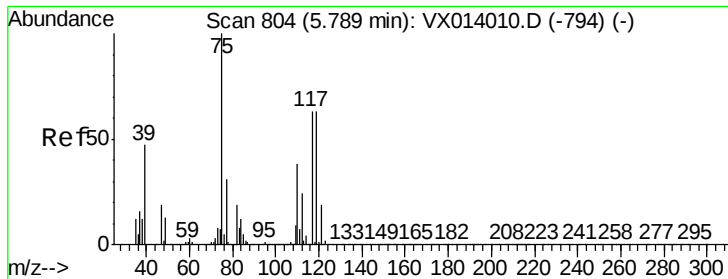
20000

0

5.40 5.50 5.60

Time-->

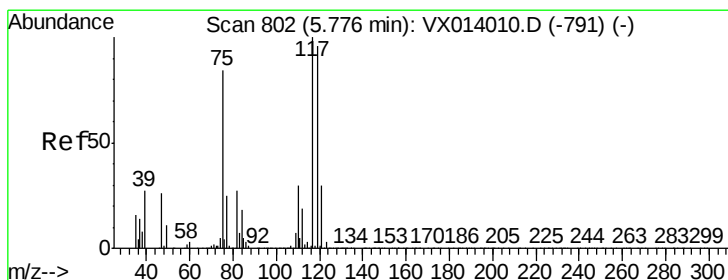
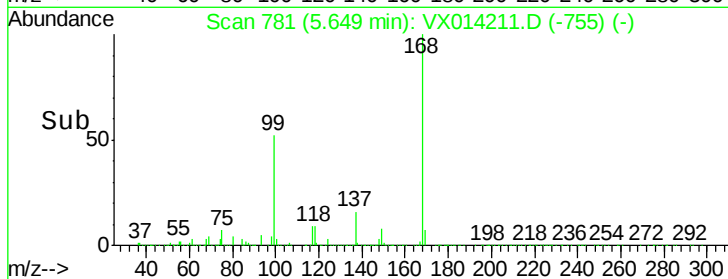
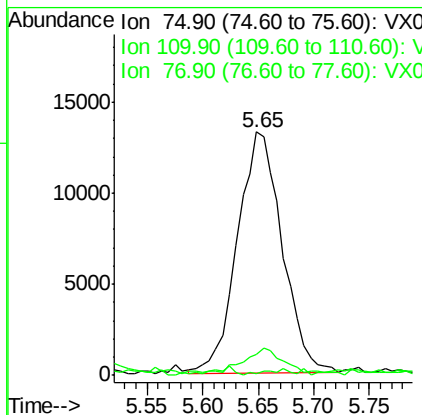
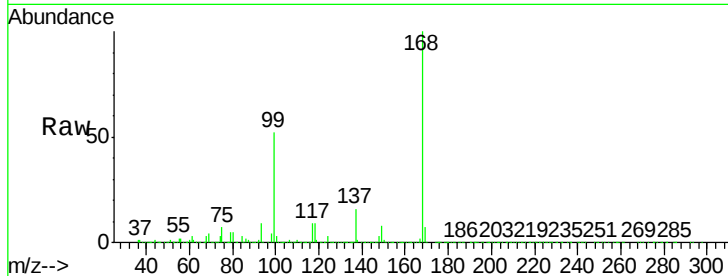




#36
 1,1-Dichloropropene
 Concen: 4.636 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014211.D
 Acq: 23 Dec 2019 18:43

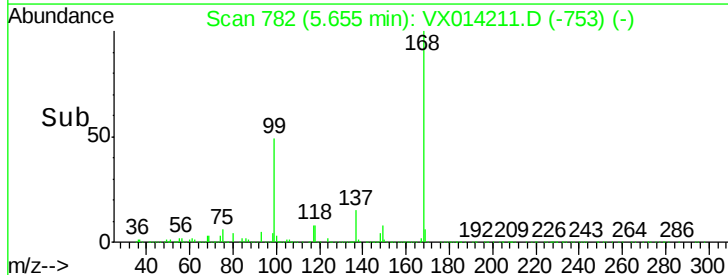
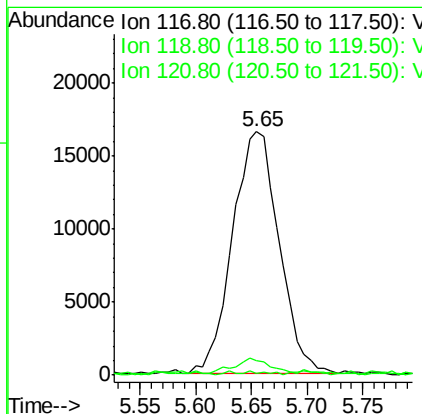
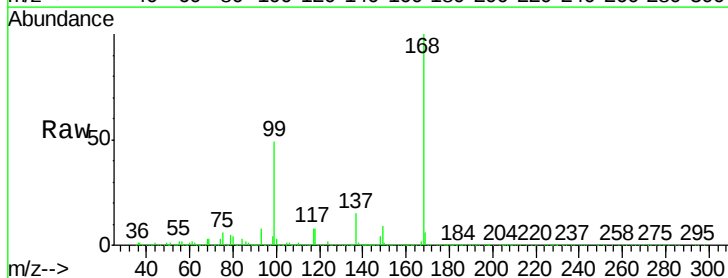
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

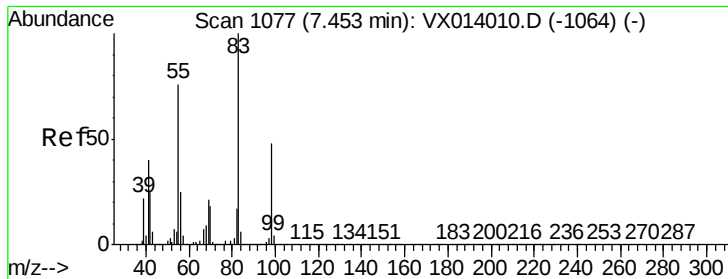
Tgt Ion: 75 Resp: 36744
 Ion Ratio Lower Upper
 75 100
 110 11.2 18.3 54.9#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.666 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014211.D
 Acq: 23 Dec 2019 18:43

Tgt Ion: 117 Resp: 48130
 Ion Ratio Lower Upper
 117 100
 119 5.4 76.2 114.4#
 121 0.1 23.6 35.4#

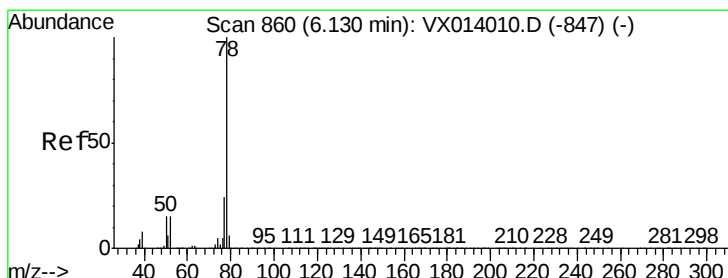
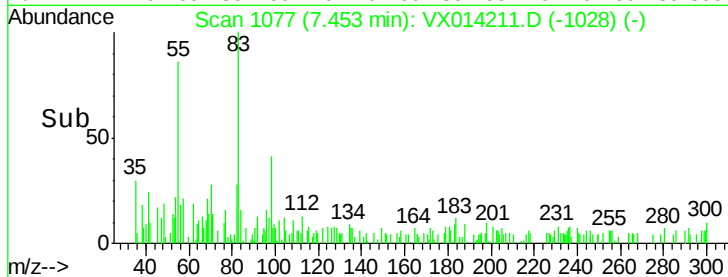
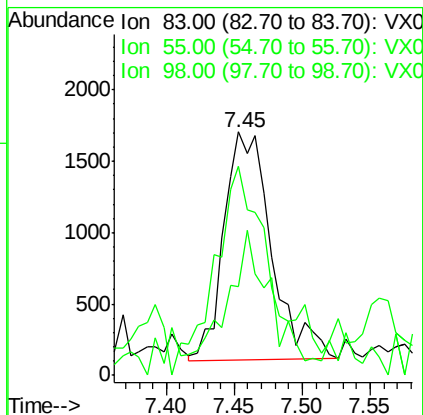
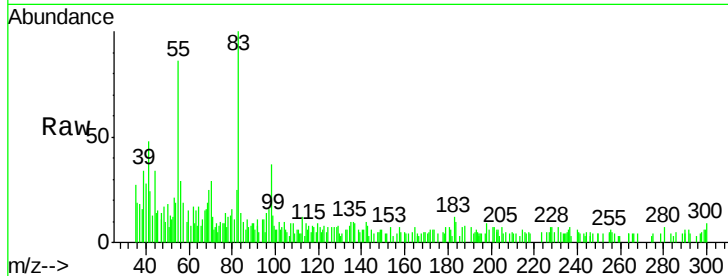




#39
Methylcyclohexane
Concen: 0.397 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VX014211.D
Acq: 23 Dec 2019 18:43

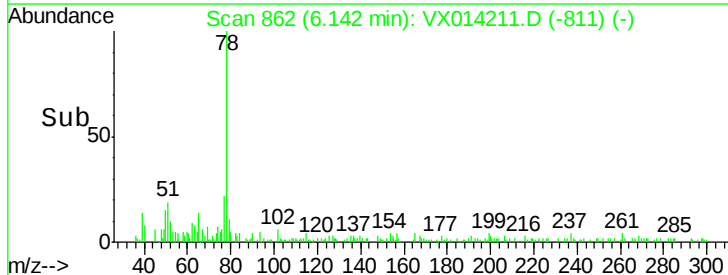
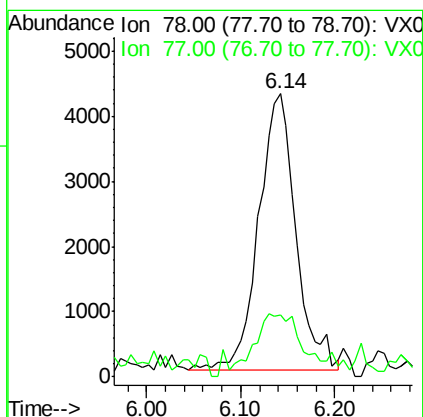
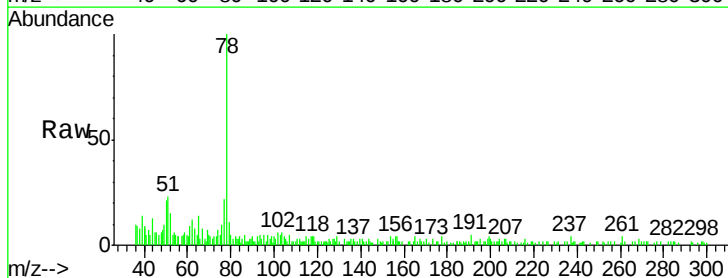
Instrument :
MSVOA_X
ClientSampleId :
MW-2

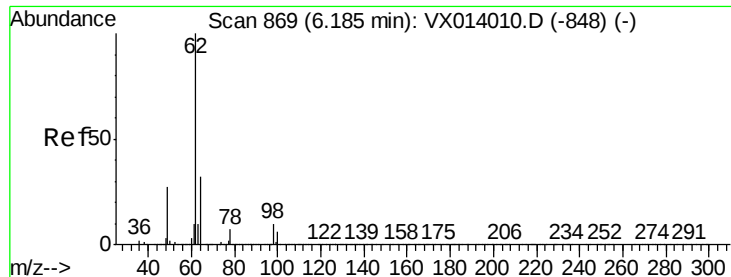
Tgt Ion: 83 Resp: 3889
Ion Ratio Lower Upper
83 100
55 79.1 61.0 91.6
98 33.1 38.6 57.8#



#40
Benzene
Concen: 0.480 ug/l
RT: 6.14 min Scan# 862
Delta R.T. 0.01 min
Lab File: VX014211.D
Acq: 23 Dec 2019 18:43

Tgt Ion: 78 Resp: 11710
Ion Ratio Lower Upper
78 100
77 18.7 18.8 28.2#





#42

1,2-Dichloroethane

Concen: 2.488 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

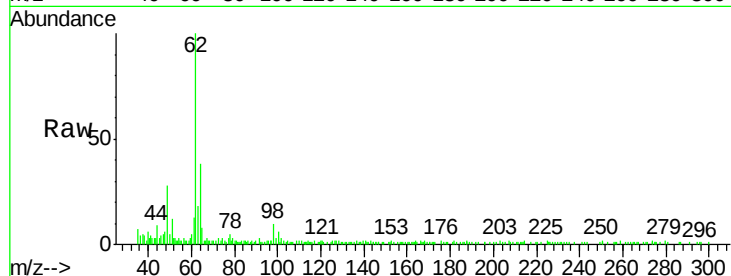
MW-2

Tgt Ion: 62 Resp: 20568

Ion Ratio Lower Upper

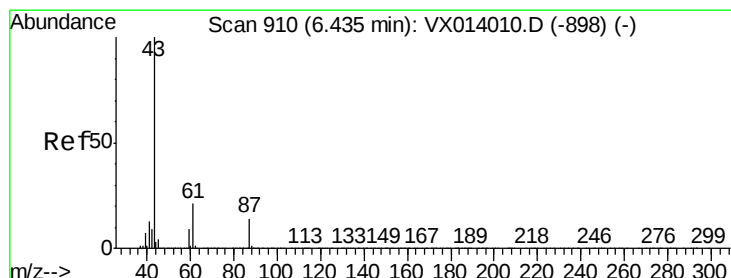
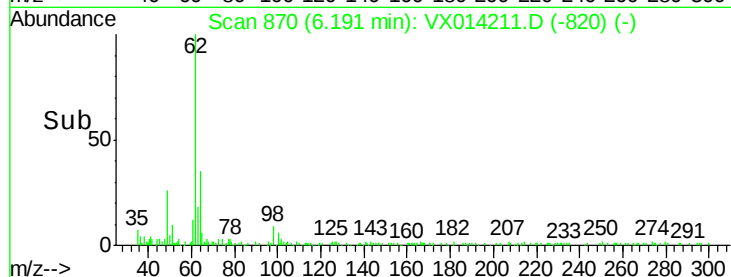
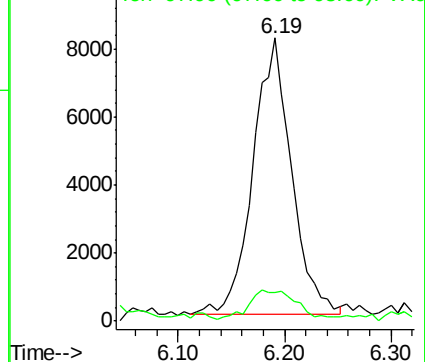
62 100

98 12.4 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#43

Isopropyl Acetate

Concen: 2.565 ug/l

RT: 6.33 min Scan# 892

Delta R.T. -0.11 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

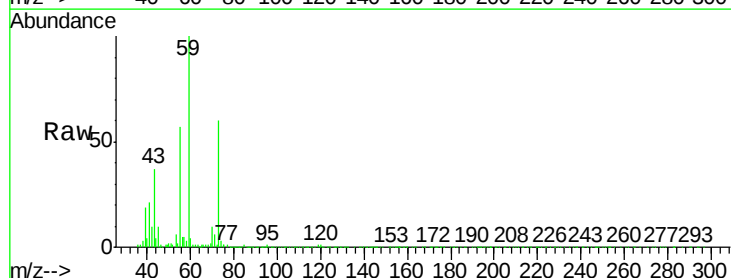
Tgt Ion: 43 Resp: 37154

Ion Ratio Lower Upper

43 100

61 0.2 16.4 24.6#

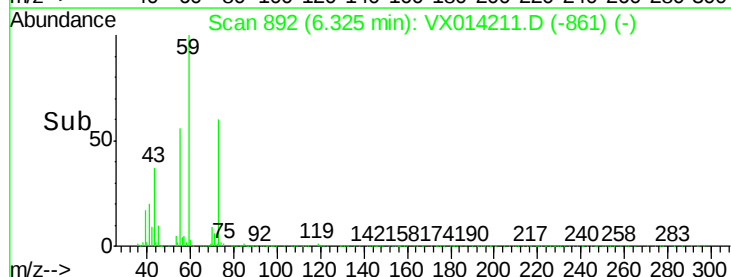
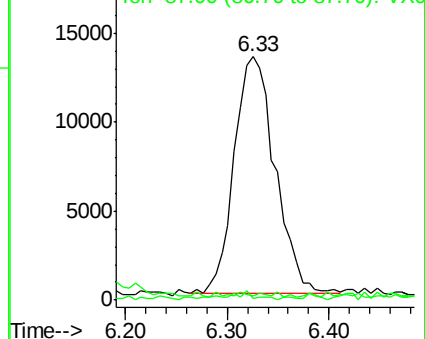
87 1.8 10.7 16.1#

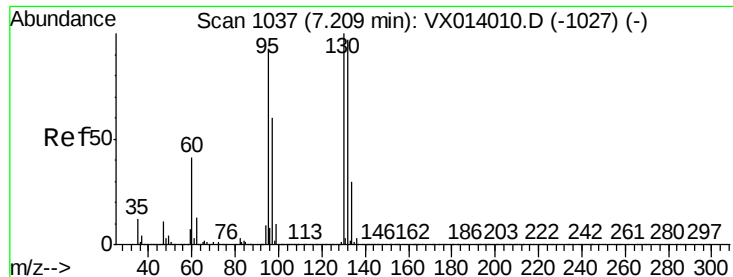


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: 0.922 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

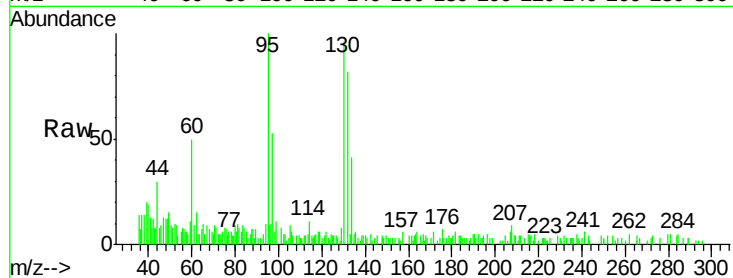
MW-2

Tgt Ion: 130 Resp: 6214

Ion Ratio Lower Upper

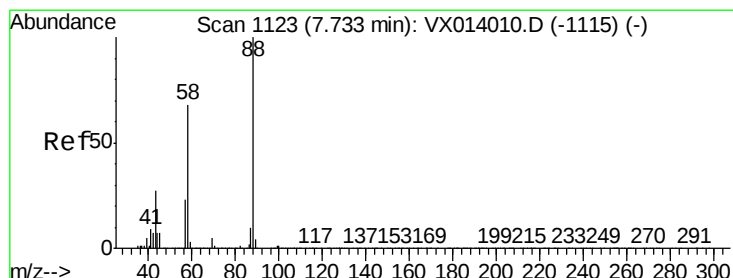
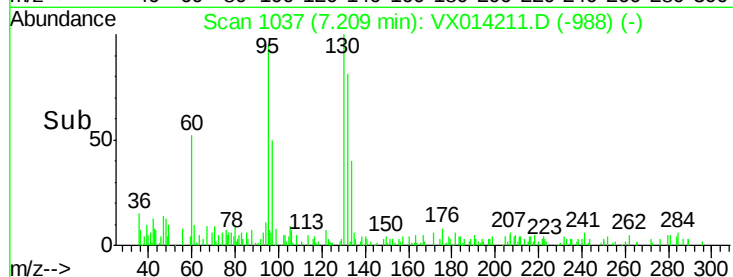
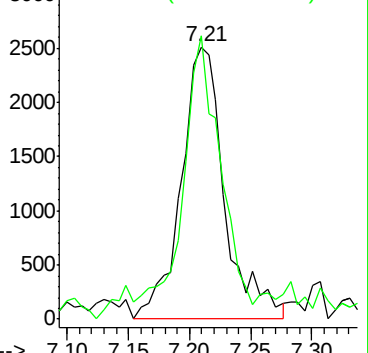
130 100

95 97.7 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 519.975 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

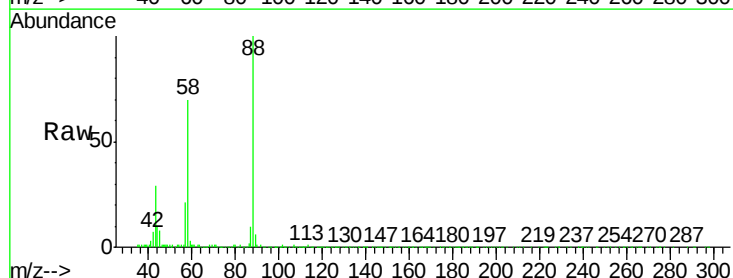
Tgt Ion: 88 Resp: 75056

Ion Ratio Lower Upper

88 100

43 27.6 26.5 39.7

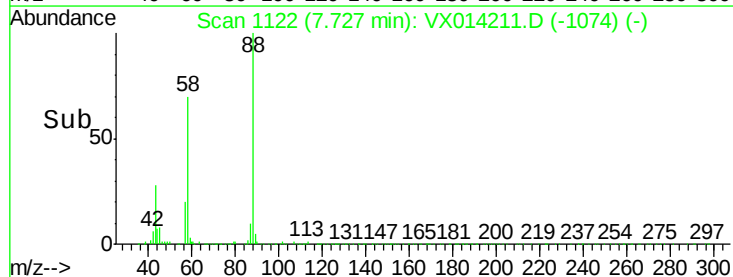
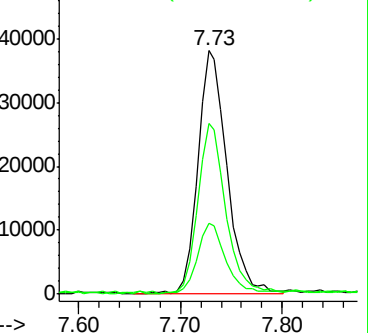
58 68.2 56.8 85.2

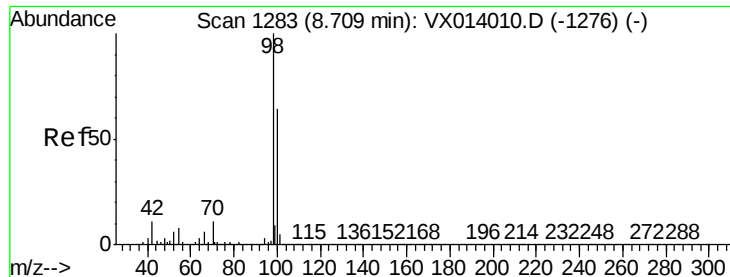


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.926 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

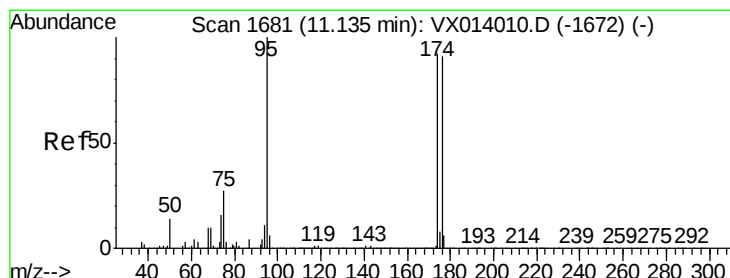
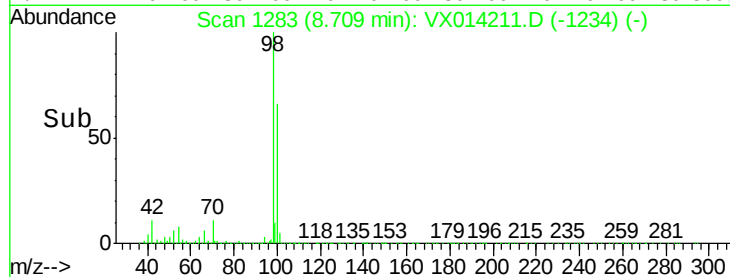
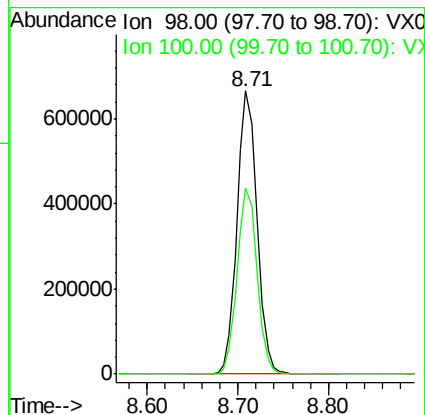
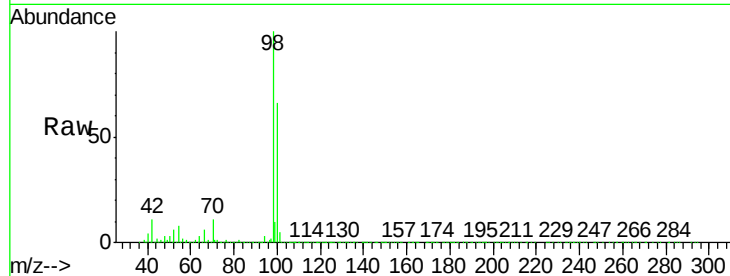
MW-2

Tgt Ion: 98 Resp: 1020689

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 46.598 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

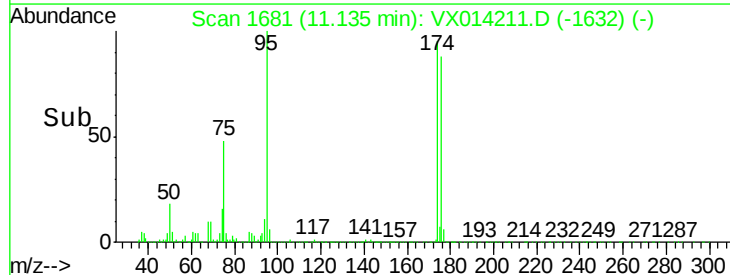
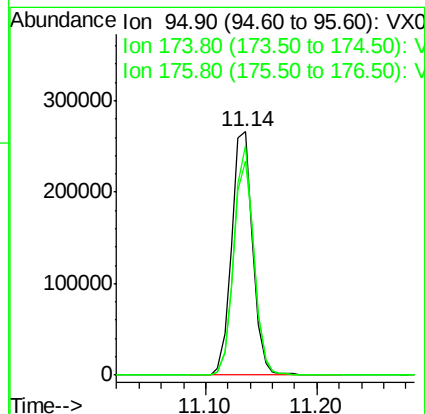
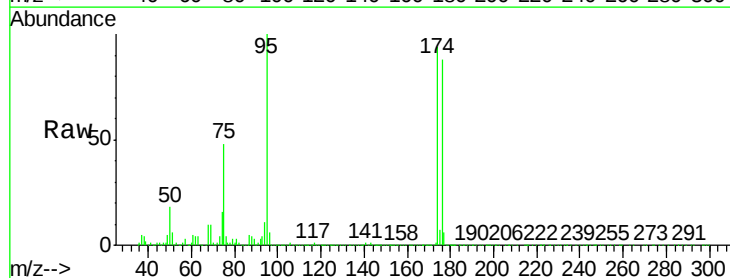
Tgt Ion: 95 Resp: 348236

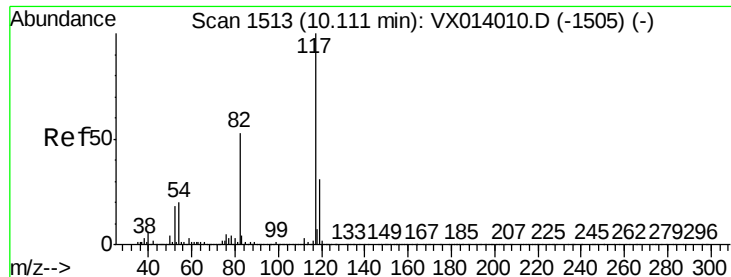
Ion Ratio Lower Upper

95 100

174 88.8 0.0 175.8

176 86.0 0.0 173.0

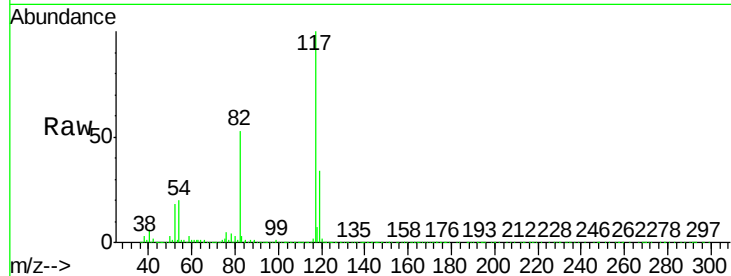




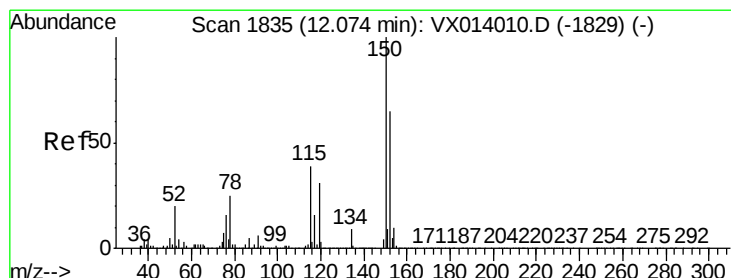
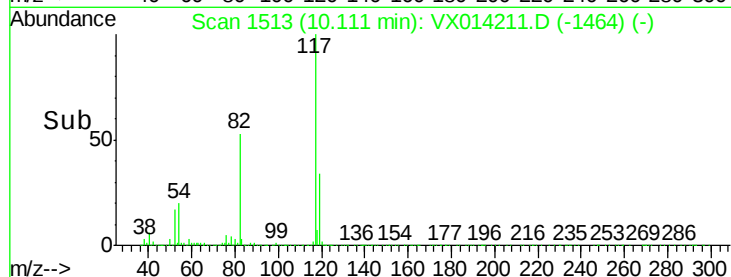
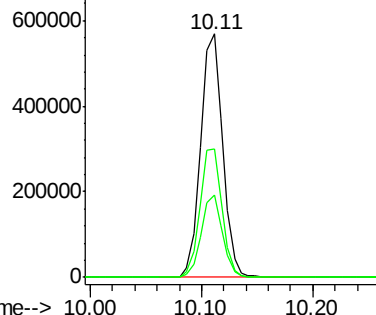
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014211.D
Acq: 23 Dec 2019 18:43

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Tgt Ion:117 Resp: 775631
Ion Ratio Lower Upper
117 100
82 52.9 42.2 63.4
119 33.6 25.1 37.7

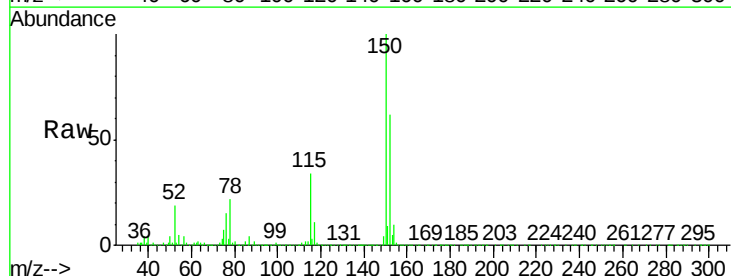


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

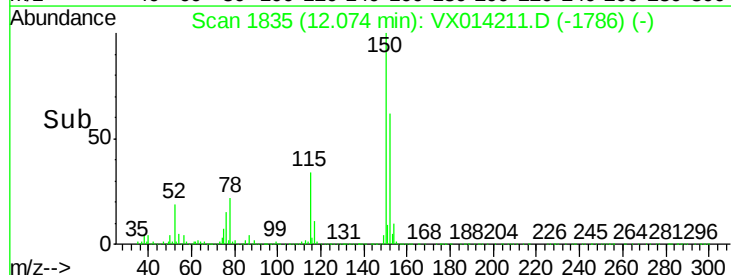
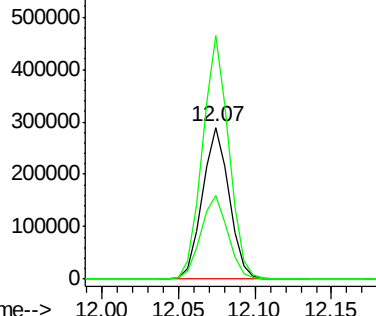


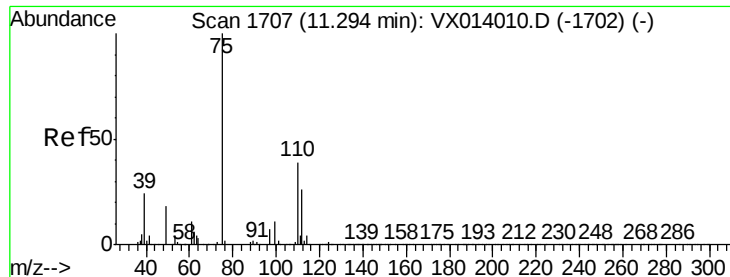
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014211.D
Acq: 23 Dec 2019 18:43

Tgt Ion:152 Resp: 348612
Ion Ratio Lower Upper
152 100
115 55.6 38.3 114.9
150 157.8 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: 22.232 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

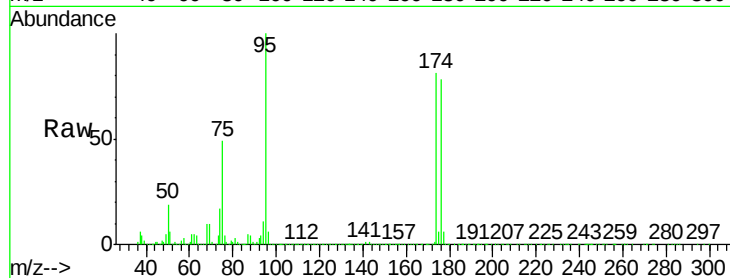
MW-2

Tgt Ion: 75 Resp: 168260

Ion Ratio Lower Upper

75 100

77 2.2 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

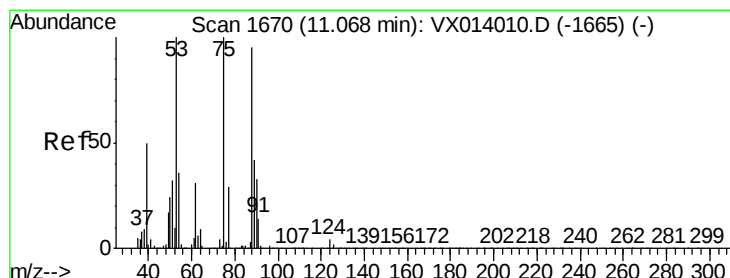
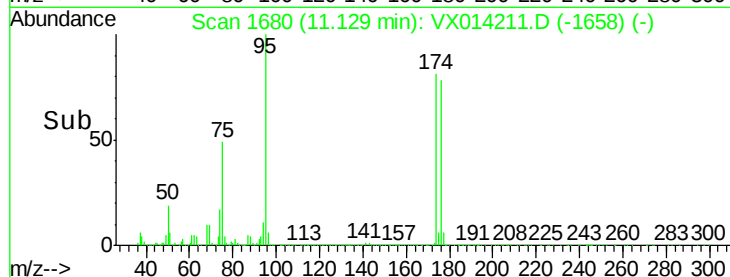
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 62.751 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

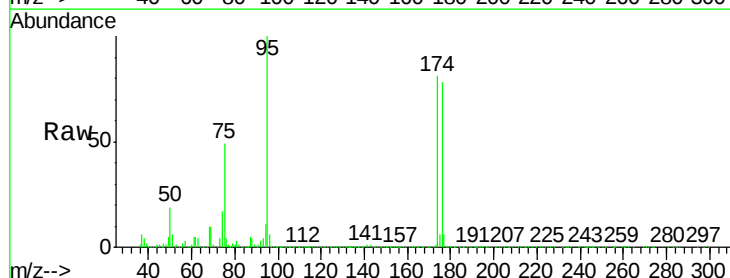
Tgt Ion: 75 Resp: 168260

Ion Ratio Lower Upper

75 100

53 2.9 76.7 115.1#

89 9.3 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

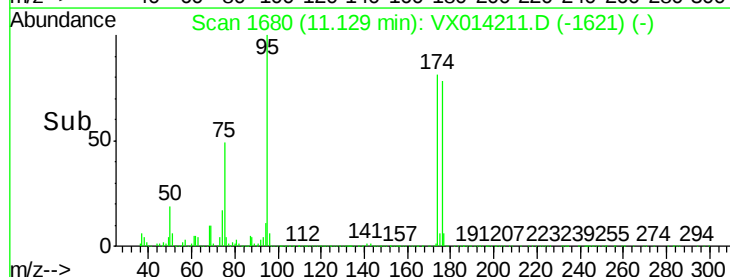
150000

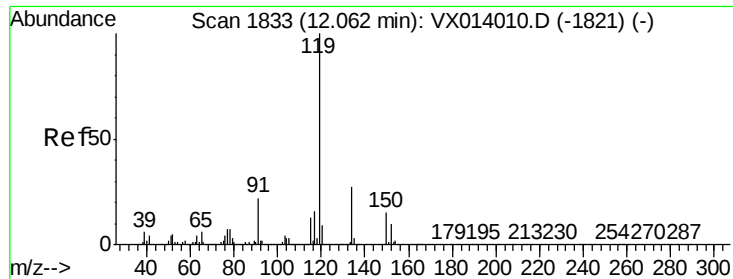
100000

50000

0

Time-->





#86

p-Isopropyltoluene

Concen: 0.293 ug/l

RT: 12.23 min Scan# 1860

Delta R.T. 0.16 min

Lab File: VX014211.D

Acq: 23 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

MW-2

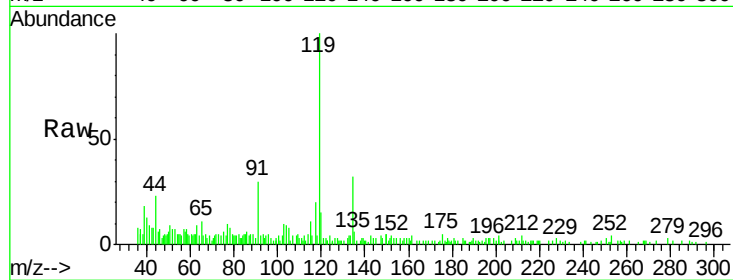
Tgt Ion:119 Resp: 6366

Ion Ratio Lower Upper

119 100

134 32.2 13.4 40.1

91 34.0 11.4 34.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

