

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014278.D
 Acq On : 26 Dec 2019 18:41
 Operator : JC/SP
 Sample : K6420-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

Quant Time: Dec 27 06:04:48 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	534462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	825464	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	734560	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	331045	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	297551	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
35) Dibromofluoromethane	5.49	113	245818	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
50) Toluene-d8	8.71	98	981294	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	11.13	95	331767	46.46	ug/l	0.00
Spiked Amount			Recovery	=	92.92%	

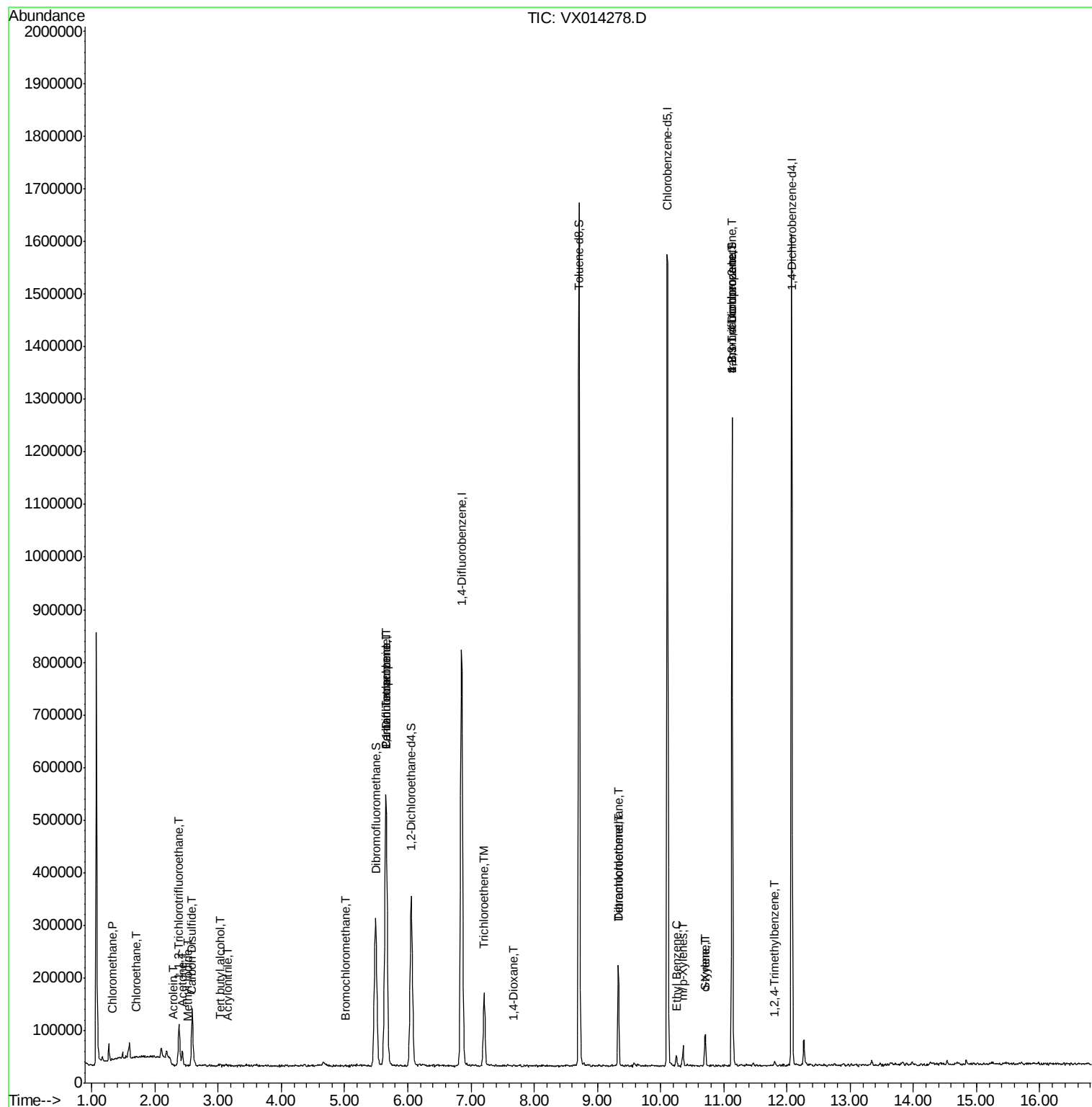
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1537	0.240	ug/l #	52
6) Chloroethane	1.69	64	1704	0.408	ug/l #	70
9) 1,1,2-Trichlorotrifluoroet	2.38	101	33988	6.727	ug/l	98
10) Methyl Iodide	2.51	142	718	2.723	ug/l #	43
11) Tert butyl alcohol	3.03	59	3106	2.373	ug/l #	90
13) Acrolein	2.29	56	218	0.291	ug/l #	40
15) Acrylonitrile	3.15	53	1540	0.504	ug/l #	59
16) Acetone	2.43	43	27833	7.078	ug/l	97
17) Carbon Disulfide	2.57	76	1055	0.823	ug/l #	93
28) Bromochloromethane	5.01	49	1456	0.822	ug/l #	33
36) 1,1-Dichloropropene	5.65	75	36876	4.869	ug/l #	51
38) Carbon Tetrachloride	5.65	117	47704	6.914	ug/l #	16
44) Trichloroethene	7.21	130	57882	8.992	ug/l	99
49) 1,4-Dioxane	7.67	88	431	3.125	ug/l	94
60) Dibromochloromethane	9.33	129	33211	5.659	ug/l #	11
64) Tetrachloroethene	9.33	164	39516	6.079	ug/l	88
67) Ethyl Benzene	10.25	91	12656	0.471	ug/l	98
68) m/p-Xylenes	10.36	106	9760	0.945	ug/l	100
69) o-Xylene	10.70	106	5059	0.499	ug/l	96
70) Styrene	10.71	104	23698	1.384	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	162136	22.560	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	162136	63.676	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.81	105	4551	0.232	ug/l	69

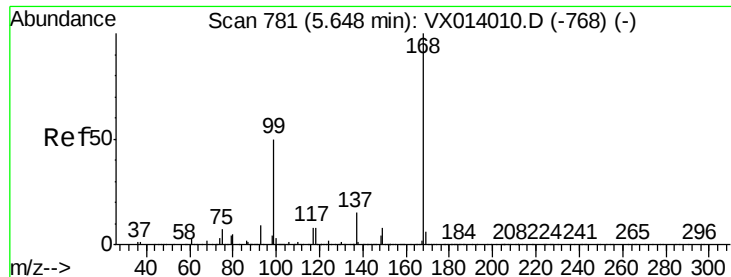
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

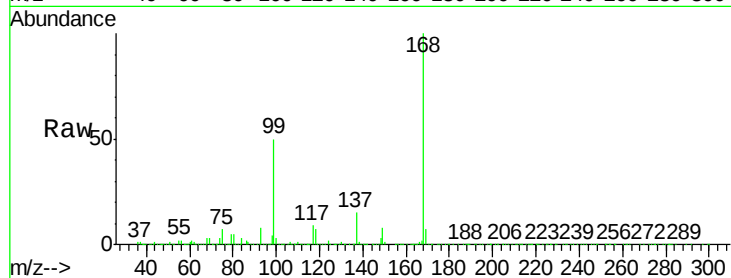
MW-1

Tgt Ion:168 Resp: 534462

Ion Ratio Lower Upper

168 100

99 50.1 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

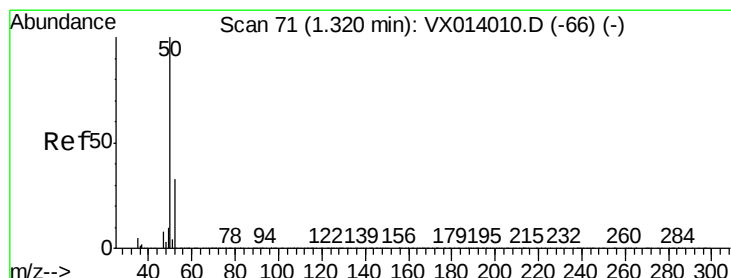
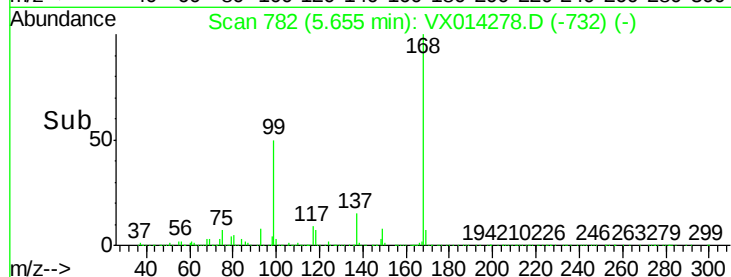
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.240 ug/l

RT: 1.33 min Scan# 72

Delta R.T. 0.01 min

Lab File: VX014278.D

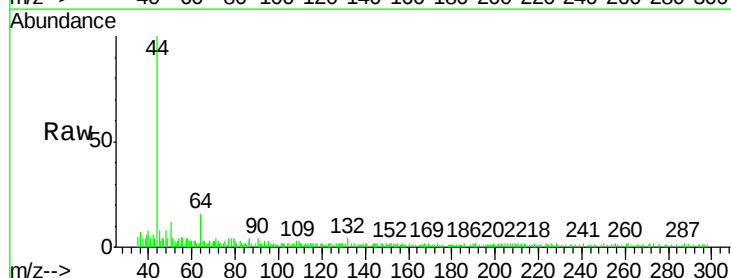
Acq: 26 Dec 2019 18:41

Tgt Ion: 50 Resp: 1537

Ion Ratio Lower Upper

50 100

52 5.9 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

1000

800

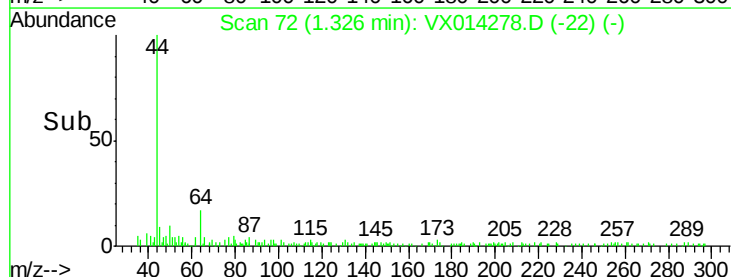
600

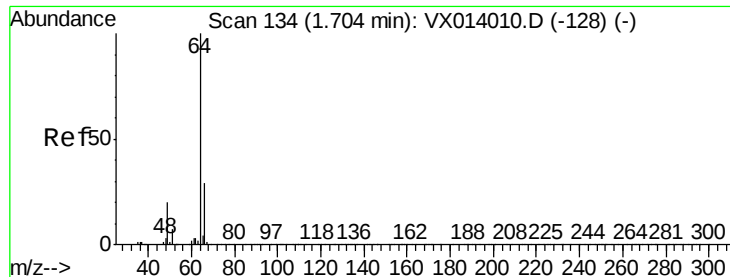
400

200

0

Time-->





#6

Chloroethane

Concen: 0.408 ug/l

RT: 1.69 min Scan# 132

Delta R.T. -0.01 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

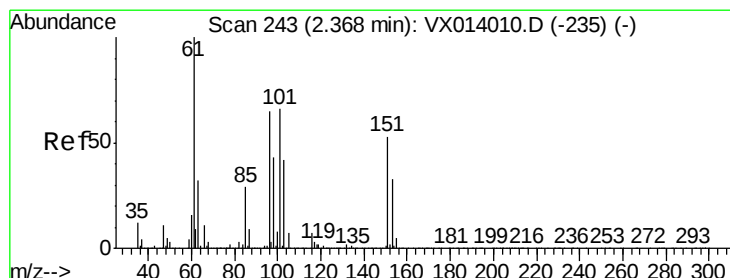
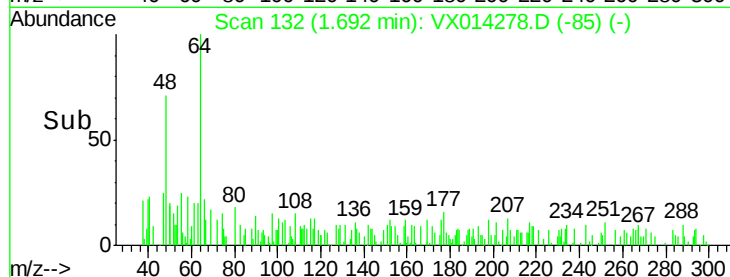
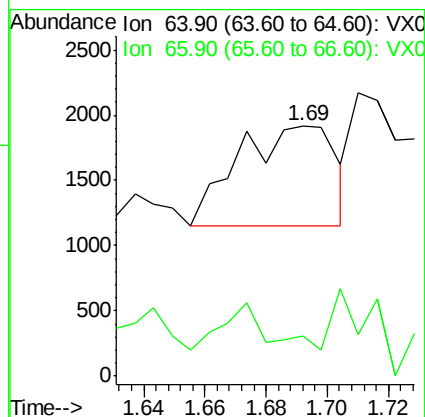
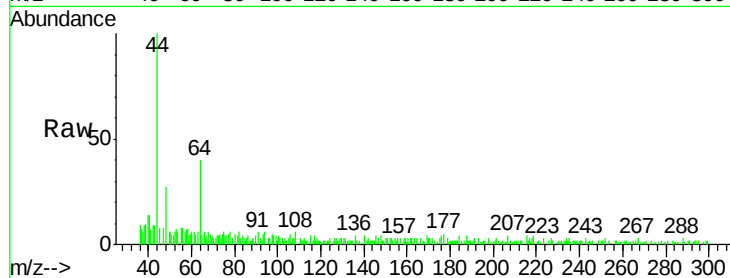
MW-1

Tgt Ion: 64 Resp: 1704

Ion Ratio Lower Upper

64 100

66 13.5 23.4 35.2#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.727 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

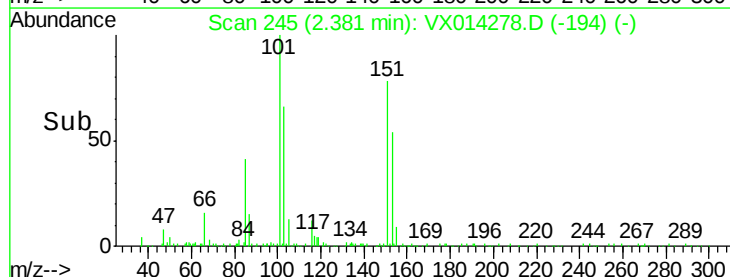
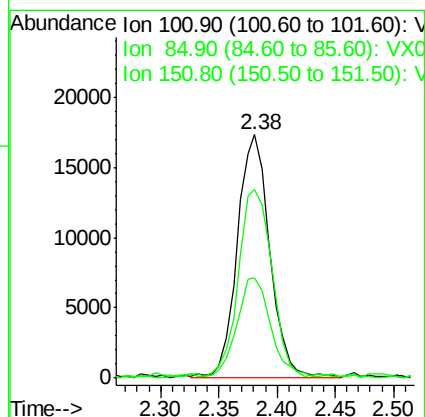
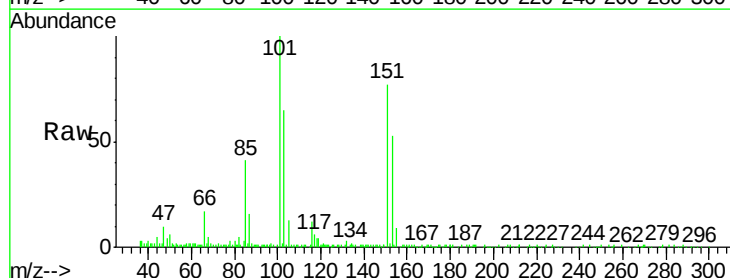
Tgt Ion: 101 Resp: 33988

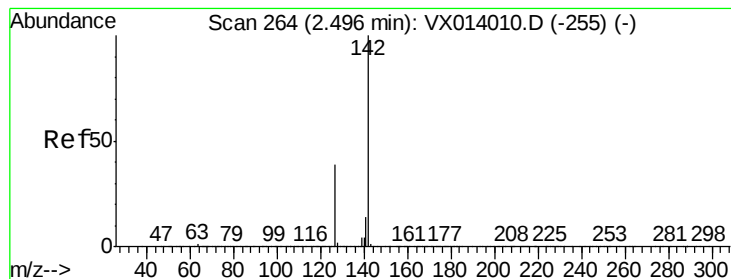
Ion Ratio Lower Upper

101 100

85 40.9 33.7 50.5

151 79.5 64.5 96.7





#10

Methyl Iodide

Concen: 2.723 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

MW-1

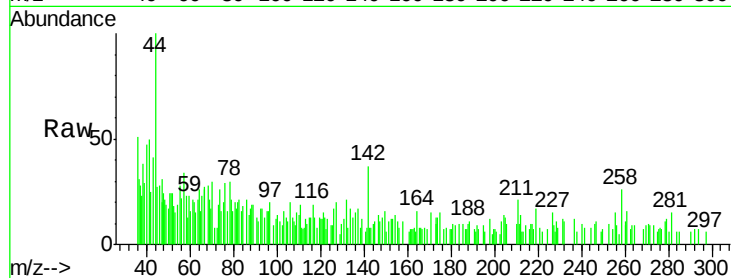
Tgt Ion: 142 Resp: 718

Ion Ratio Lower Upper

142 100

127 0.0 31.6 47.4#

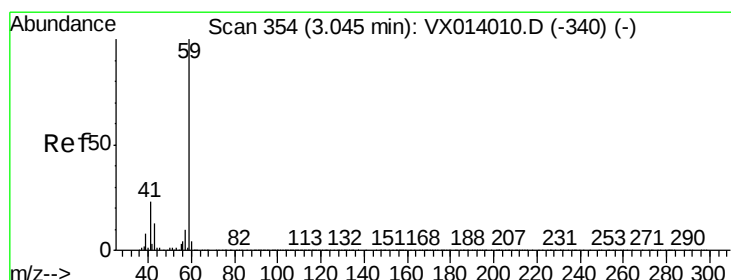
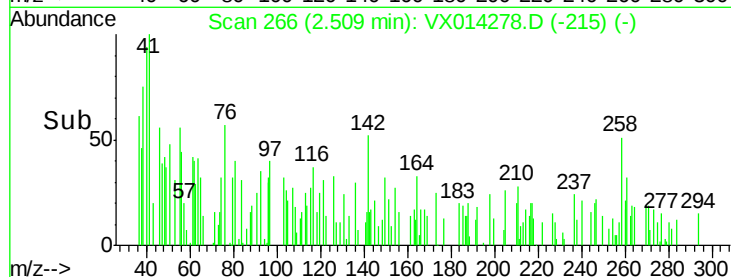
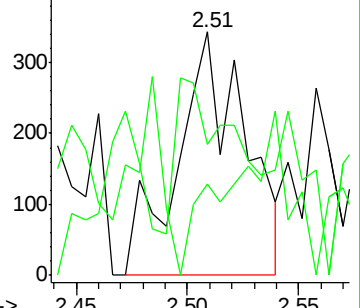
141 0.0 11.6 17.4#



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: 2.373 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.02 min

Lab File: VX014278.D

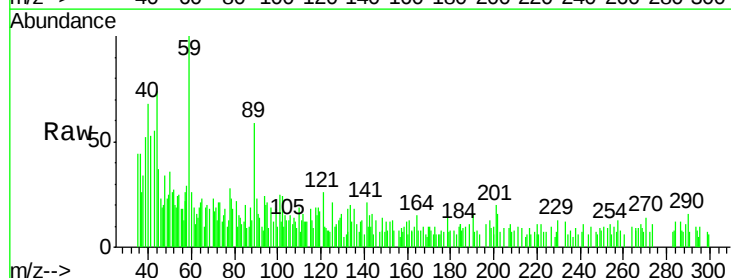
Acq: 26 Dec 2019 18:41

Tgt Ion: 59 Resp: 3106

Ion Ratio Lower Upper

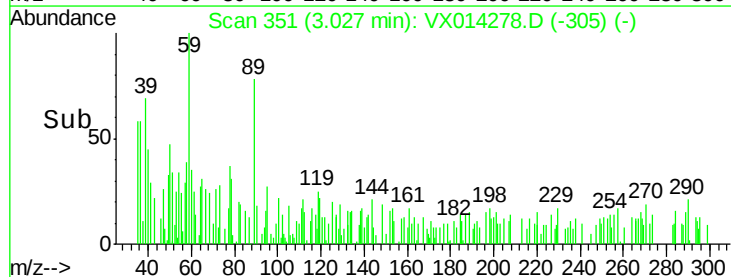
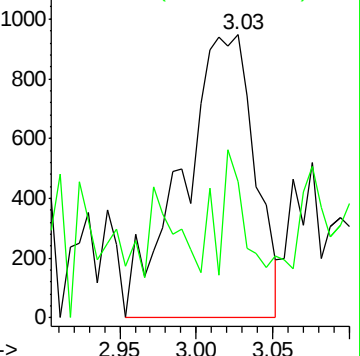
59 100

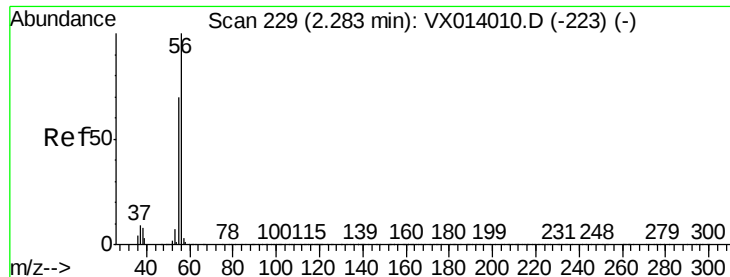
57 14.2 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.291 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

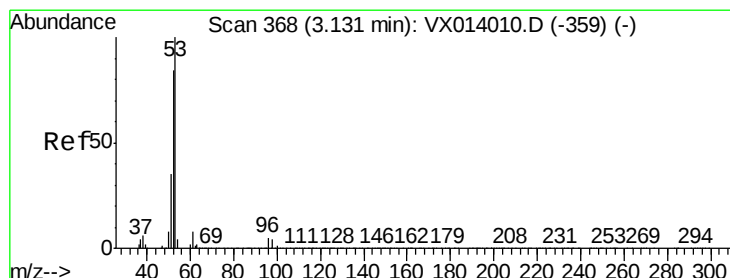
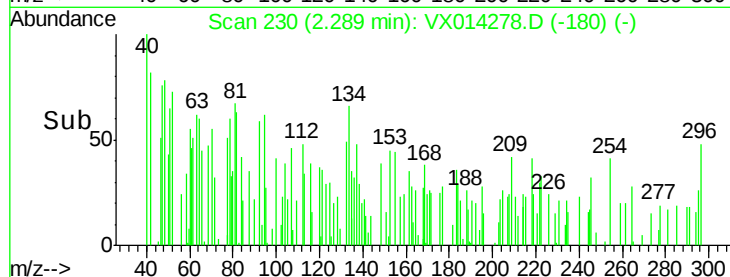
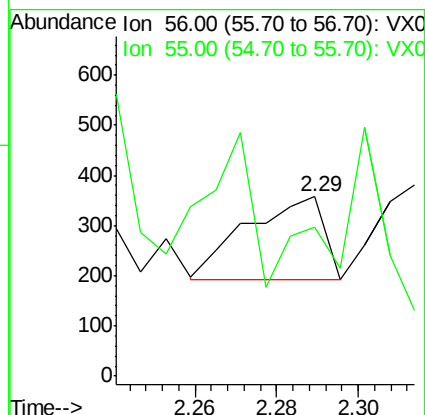
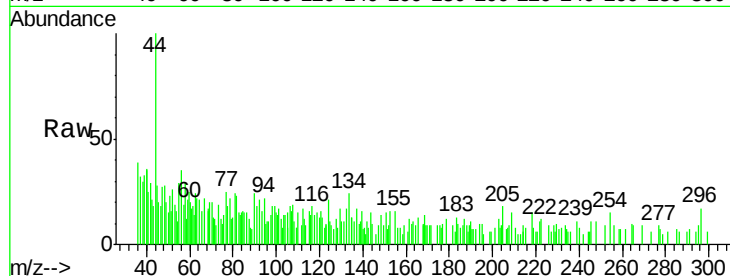
MW-1

Tgt Ion: 56 Resp: 218

Ion Ratio Lower Upper

56 100

55 121.1 56.9 85.3#



#15

Acrylonitrile

Concen: 0.504 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.02 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

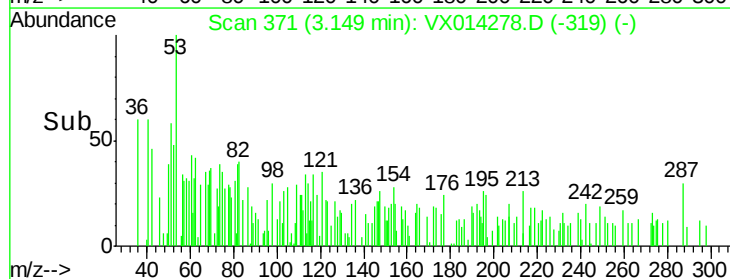
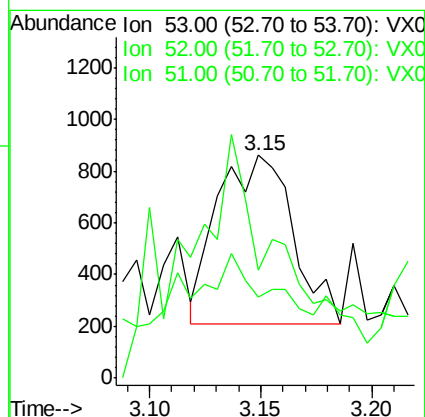
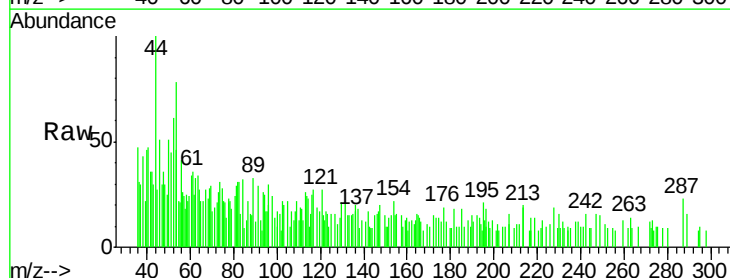
Tgt Ion: 53 Resp: 1540

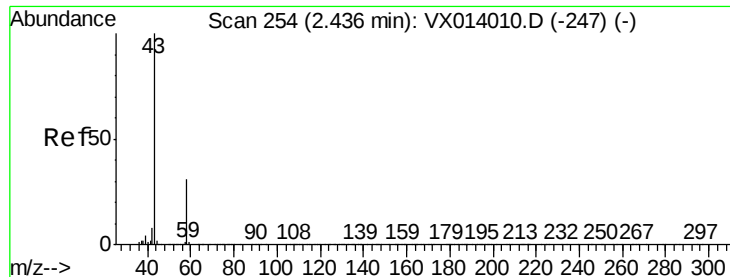
Ion Ratio Lower Upper

53 100

52 124.9 66.5 99.7#

51 18.8 28.1 42.1#





#16

Acetone

Concen: 7.078 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

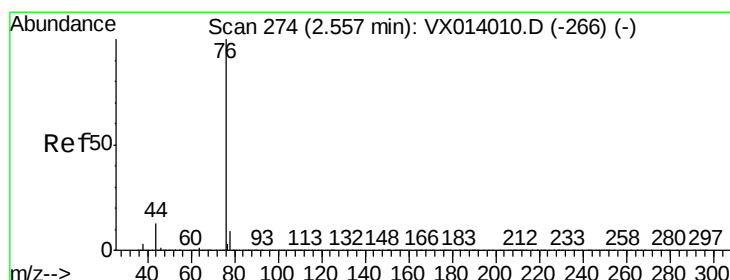
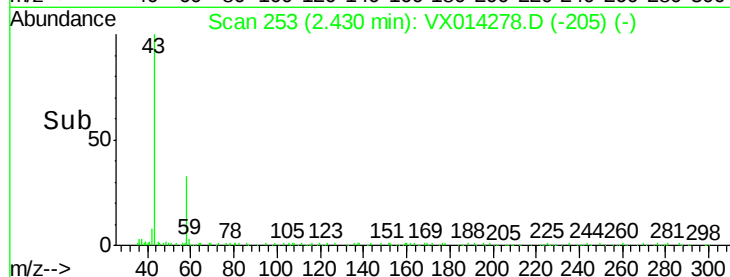
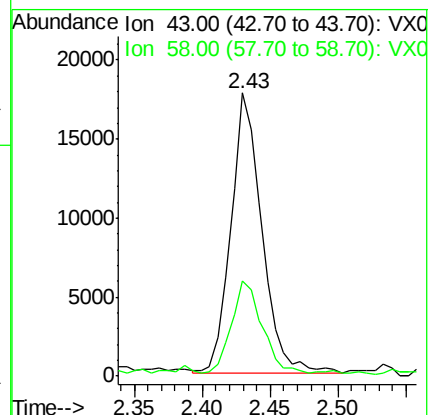
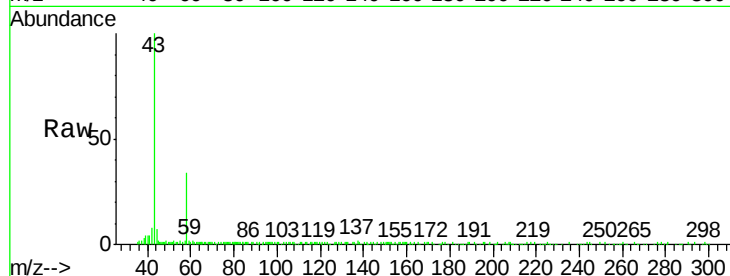
MW-1

Tgt Ion: 43 Resp: 27833

Ion Ratio Lower Upper

43 100

58 32.8 24.9 37.3



#17

Carbon Disulfide

Concen: 0.823 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014278.D

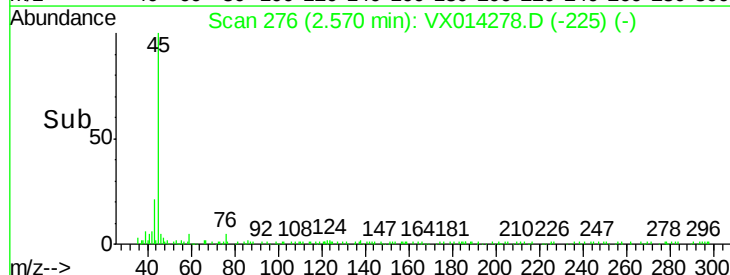
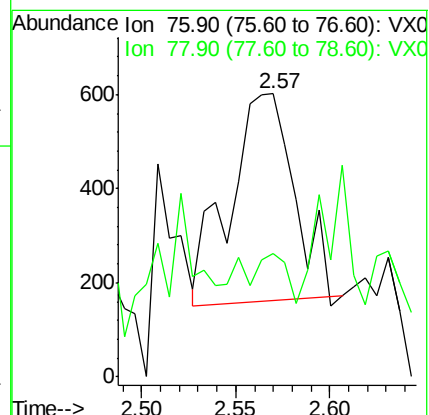
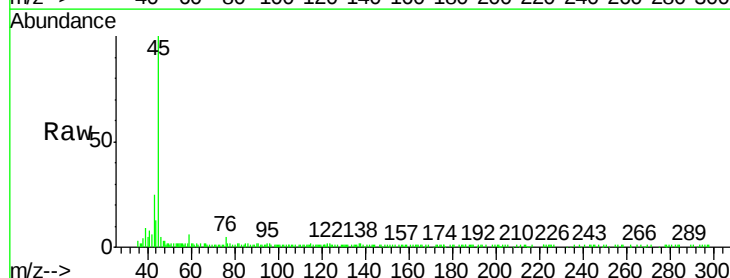
Acq: 26 Dec 2019 18:41

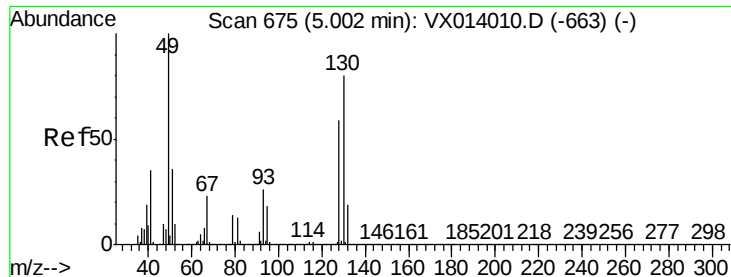
Tgt Ion: 76 Resp: 1055

Ion Ratio Lower Upper

76 100

78 11.4 7.2 10.8#





#28

Bromochloromethane

Concen: 0.822 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

MW-1

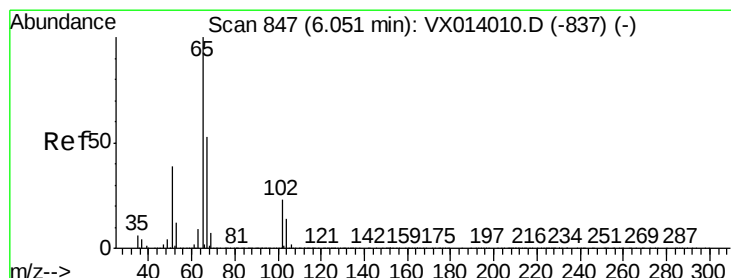
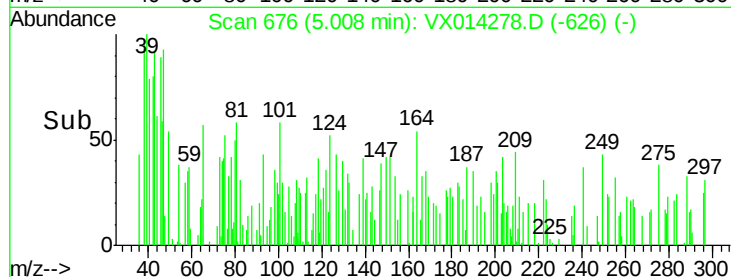
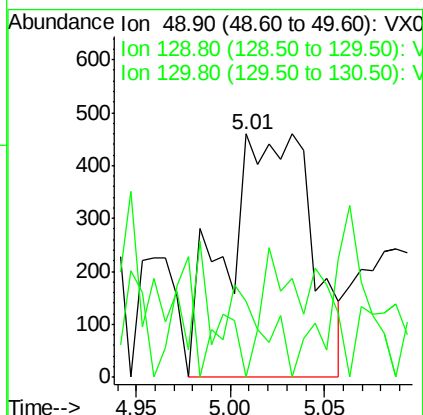
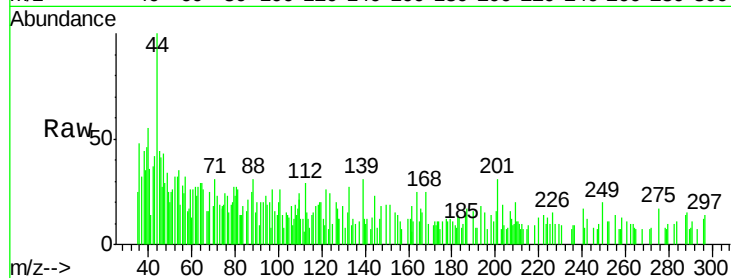
Tgt Ion: 49 Resp: 1456

Ion Ratio Lower Upper

49 100

129 14.9 0.0 5.0#

130 20.1 64.6 97.0#



#33

1,2-Dichloroethane-d4

Concen: 49.122 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014278.D

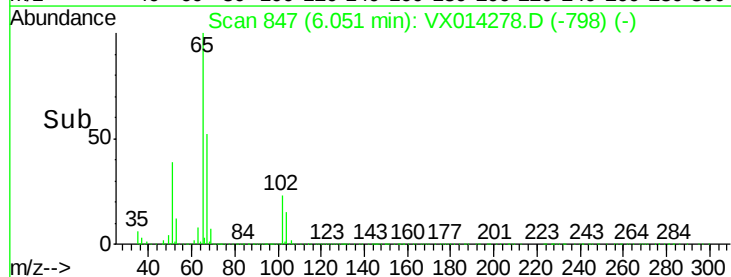
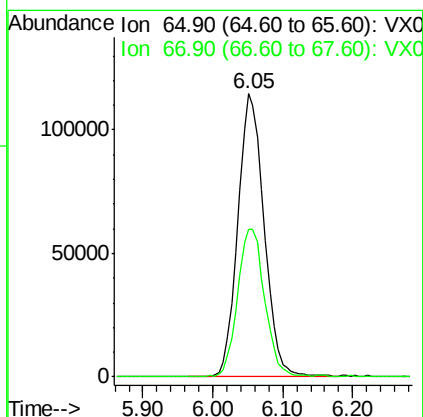
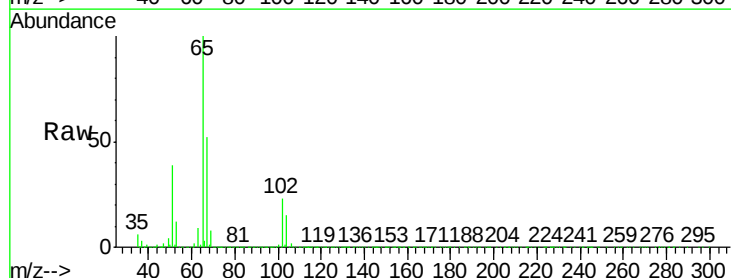
Acq: 26 Dec 2019 18:41

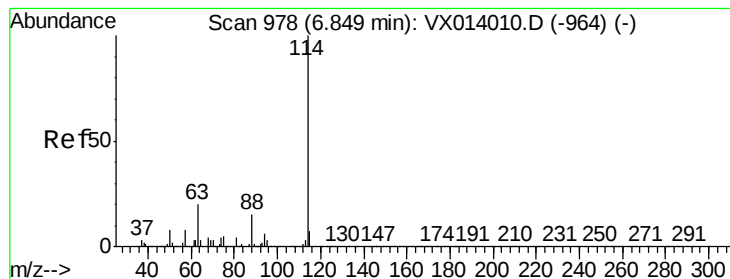
Tgt Ion: 65 Resp: 297551

Ion Ratio Lower Upper

65 100

67 53.5 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: VX014278.D

Acq: 26 Dec 2019 18:41

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ClientSampleId :

MW-1

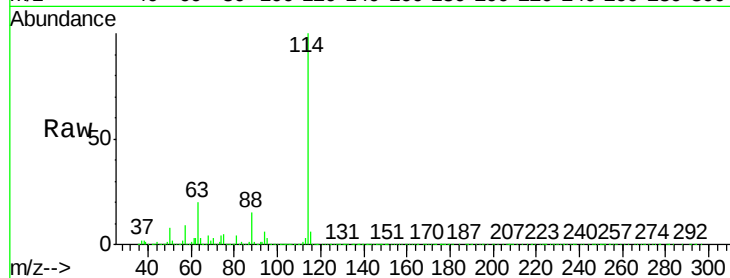
Tgt Ion:114 Resp: 825464

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

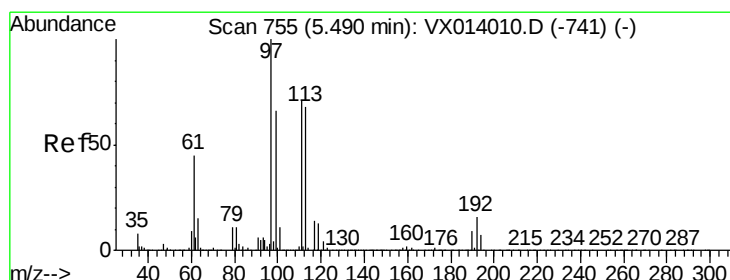
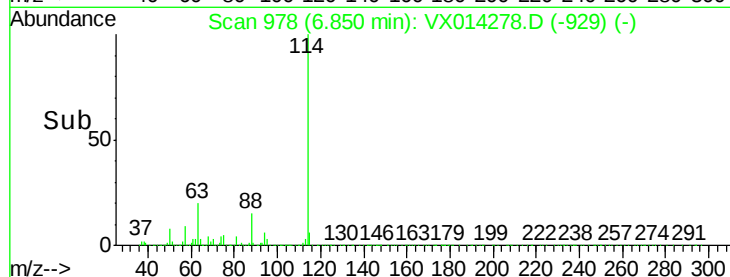
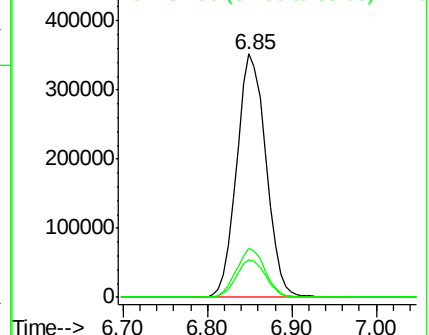
88 15.2 0.0 30.4



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



#35

Dibromofluoromethane

Concen: 48.988 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

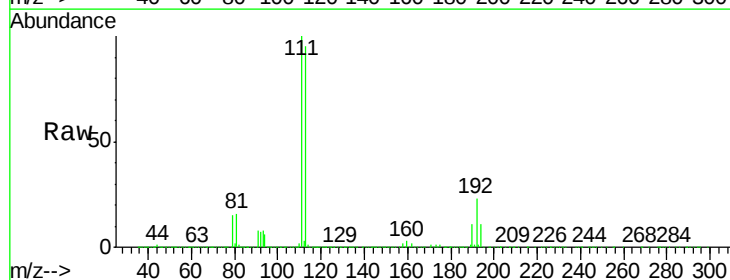
Tgt Ion:113 Resp: 245818

Ion Ratio Lower Upper

113 100

111 103.0 82.0 123.0

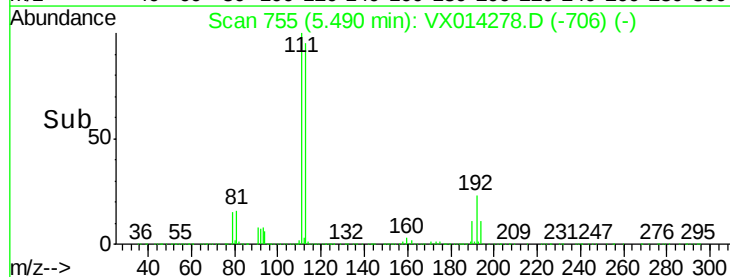
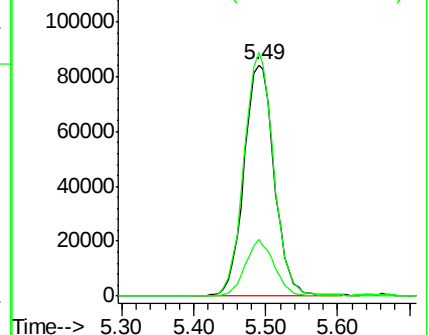
192 23.5 19.3 28.9

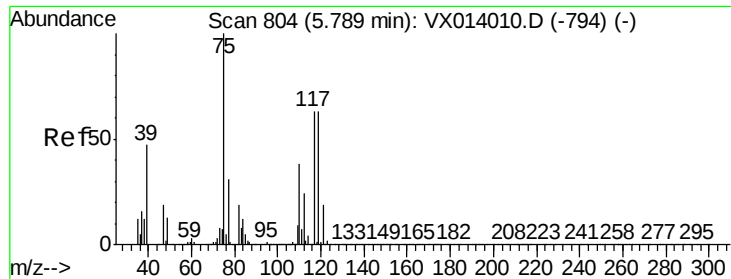


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

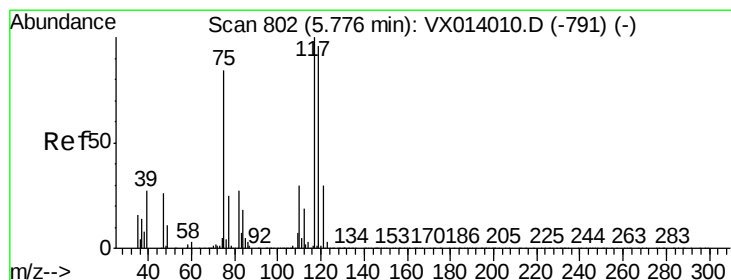
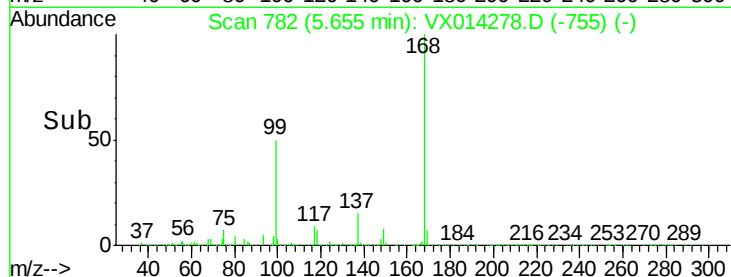
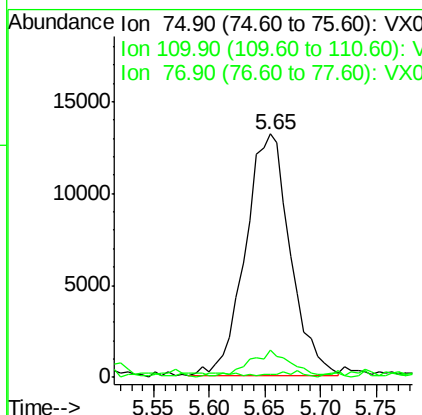
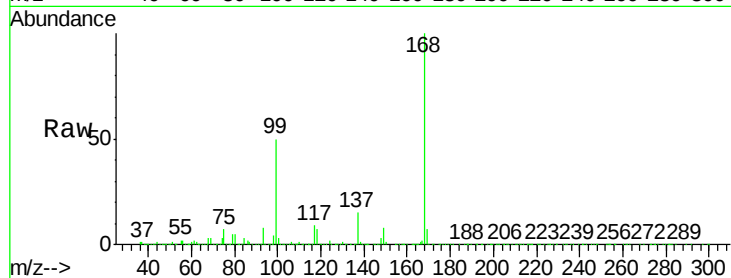




#36
 1,1-Dichloropropene
 Concen: 4.869 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014278.D
 Acq: 26 Dec 2019 18:41

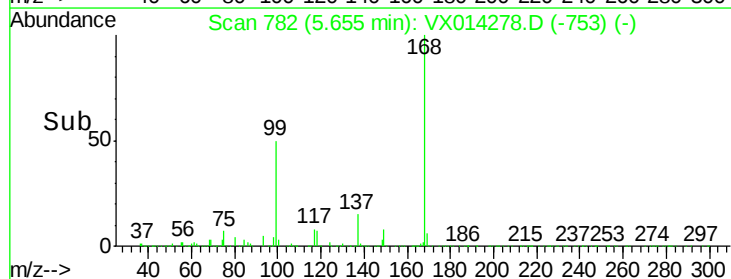
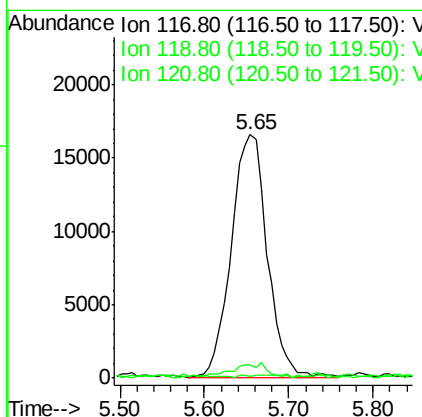
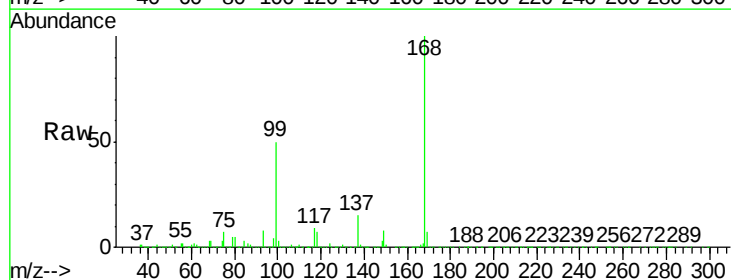
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

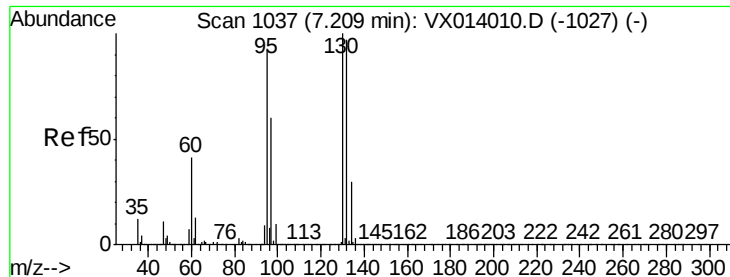
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.3	54.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.914 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014278.D
 Acq: 26 Dec 2019 18:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	76.2	114.4#
121	0.0	23.6	35.4#





#44

Trichloroethene

Concen: 8.992 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

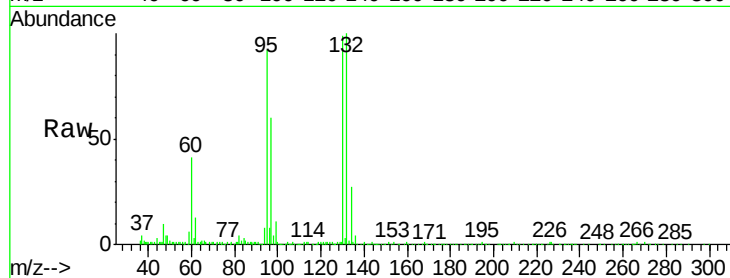
MW-1

Tgt Ion:130 Resp: 57882

Ion Ratio Lower Upper

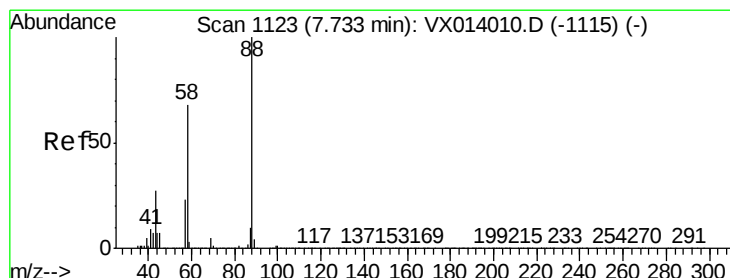
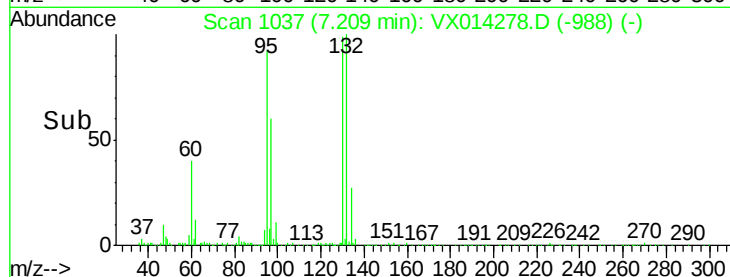
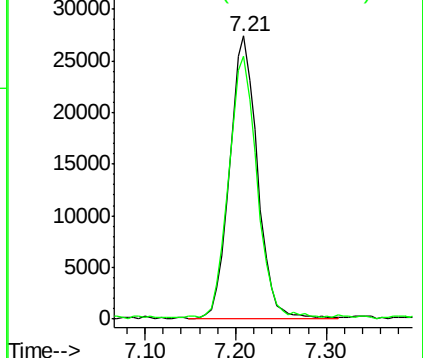
130 100

95 92.0 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: 3.125 ug/l

RT: 7.67 min Scan# 1112

Delta R.T. -0.07 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

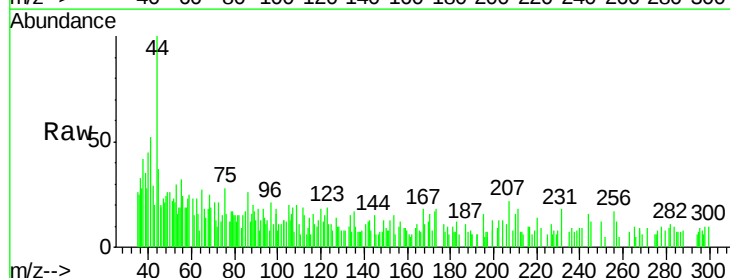
Tgt Ion: 88 Resp: 431

Ion Ratio Lower Upper

88 100

43 26.9 26.5 39.7

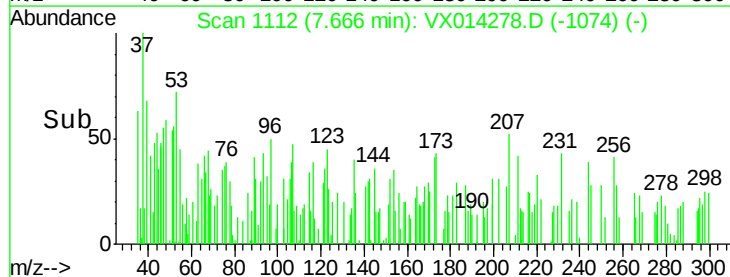
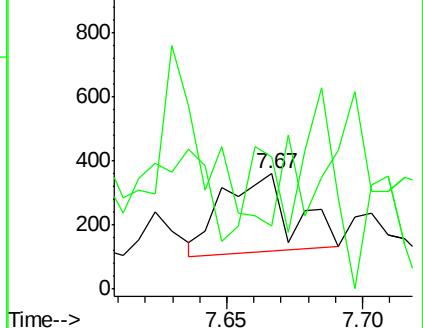
58 68.2 56.8 85.2

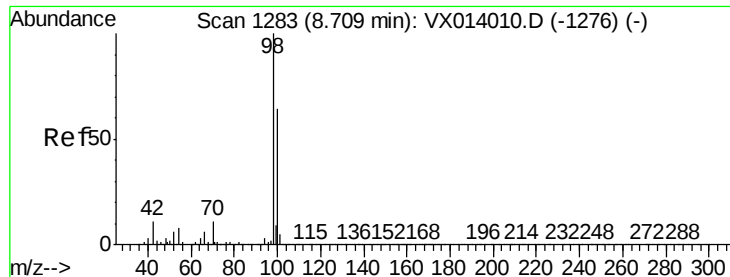


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.230 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

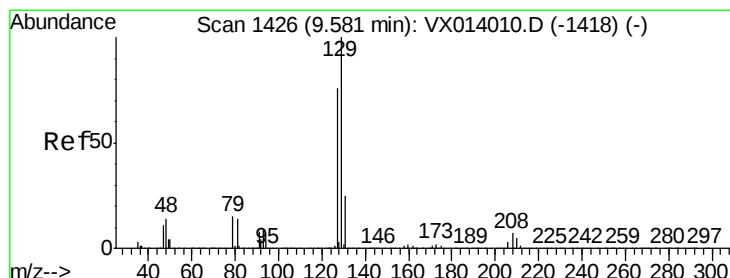
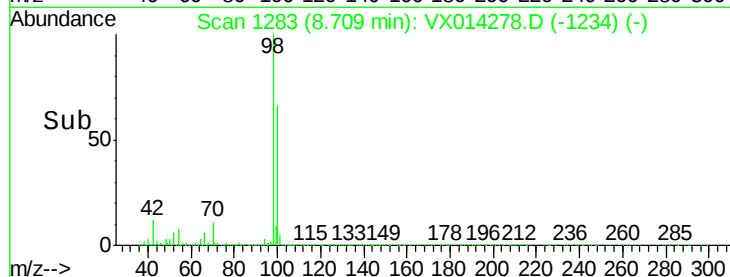
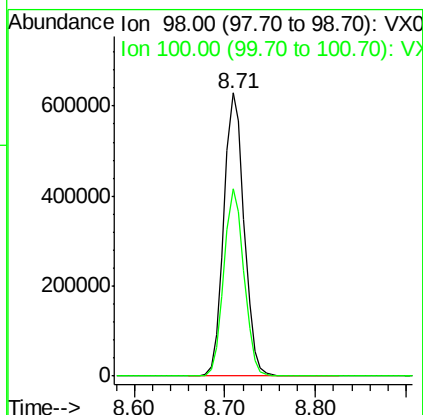
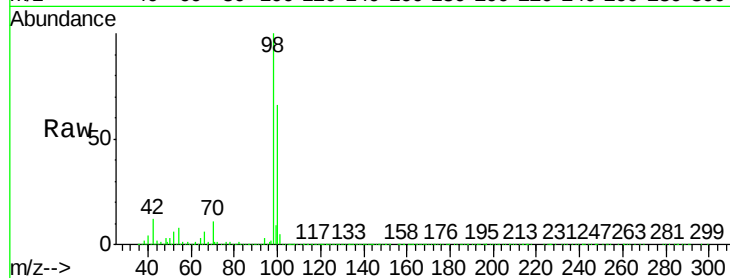
MW-1

Tgt Ion: 98 Resp: 981294

Ion Ratio Lower Upper

98 100

100 65.4 52.9 79.3



#60

Dibromochloromethane

Concen: 5.659 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX014278.D

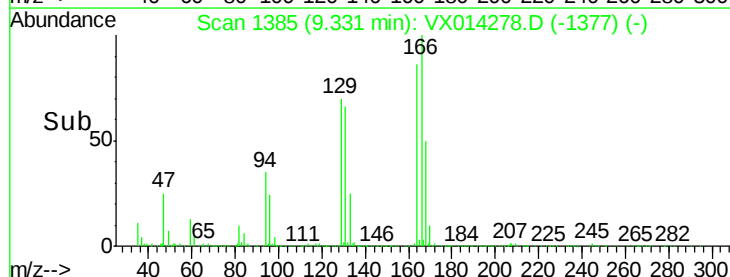
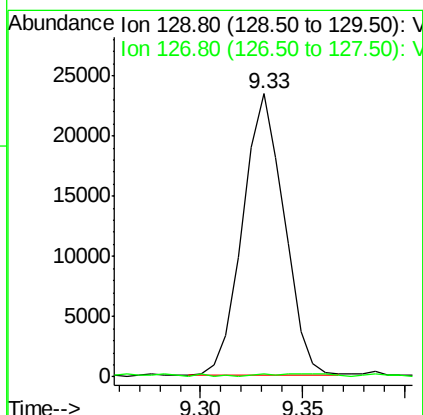
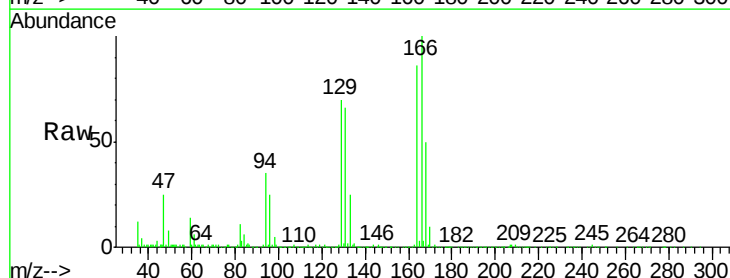
Acq: 26 Dec 2019 18:41

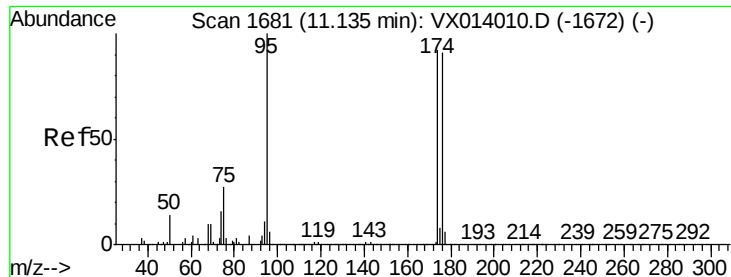
Tgt Ion: 129 Resp: 33211

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 46.458 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

MW-1

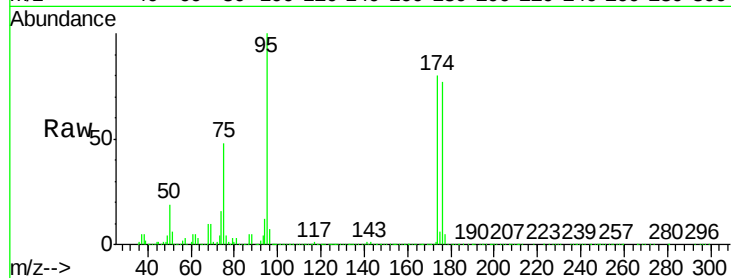
Tgt Ion: 95 Resp: 331767

Ion Ratio Lower Upper

95 100

174 88.8 0.0 175.8

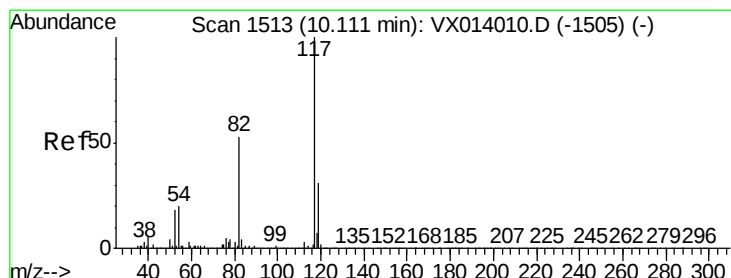
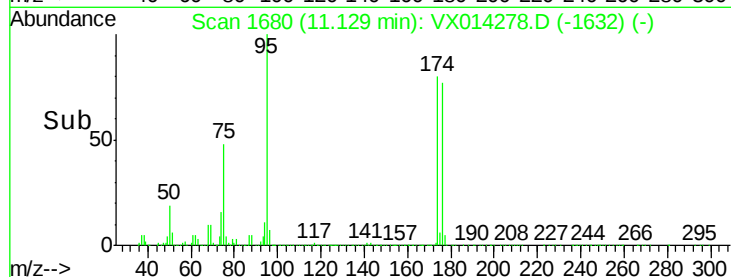
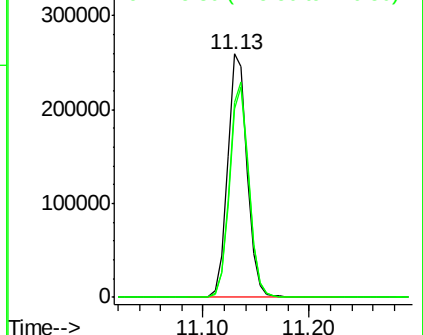
176 86.1 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

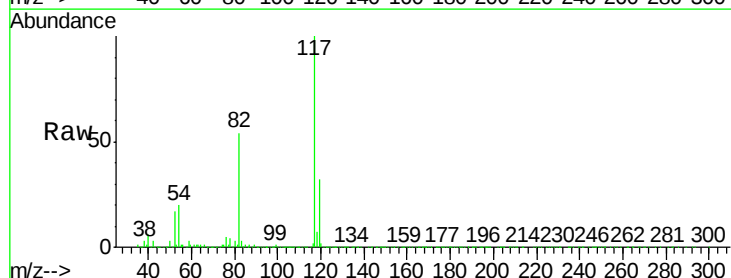
Tgt Ion: 117 Resp: 734560

Ion Ratio Lower Upper

117 100

82 53.6 42.2 63.4

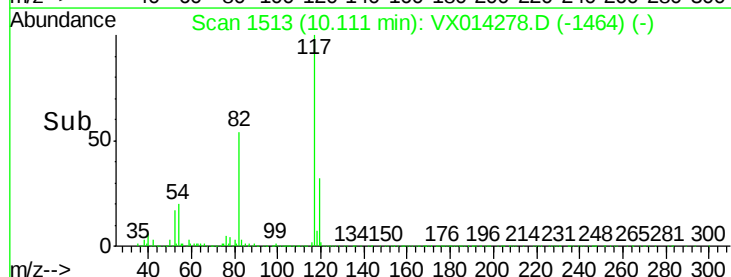
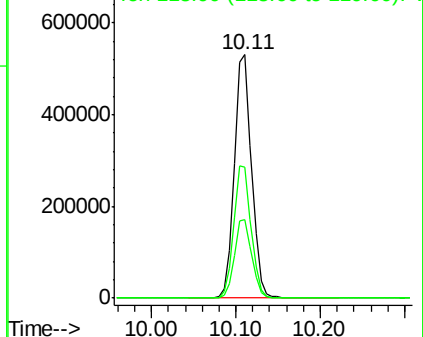
119 32.2 25.1 37.7

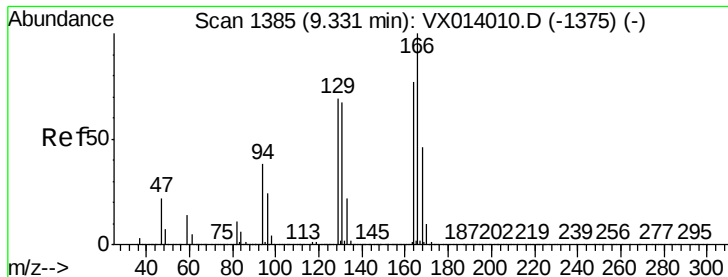


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 6.079 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

MW-1

Tgt Ion:164 Resp: 39516

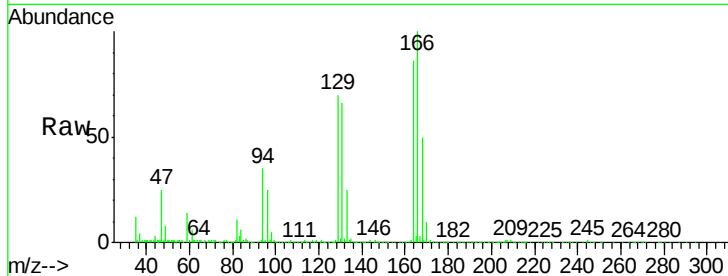
Ion Ratio Lower Upper

164 100

166 115.8 104.0 156.0

129 79.9 72.2 108.4

131 76.4 69.6 104.4

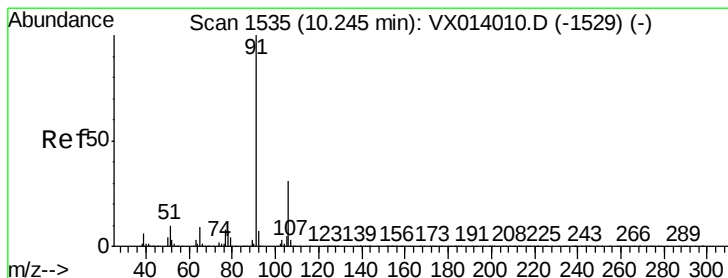
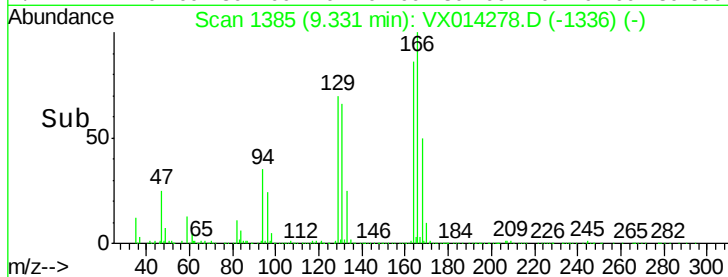
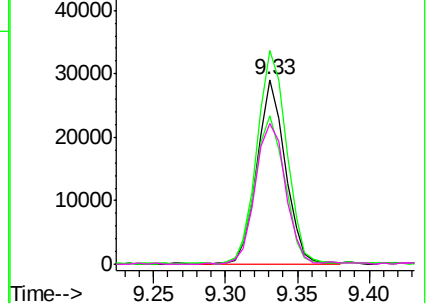


Abundance Ion 163.80 (163.50 to 164.50): V

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



#67

Ethyl Benzene

Concen: 0.471 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX014278.D

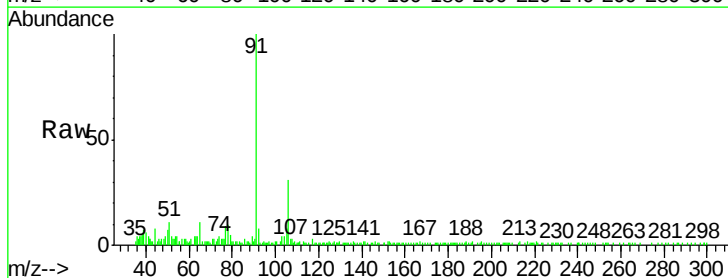
Acq: 26 Dec 2019 18:41

Tgt Ion: 91 Resp: 12656

Ion Ratio Lower Upper

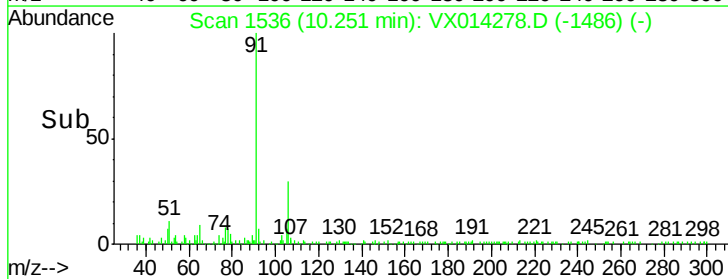
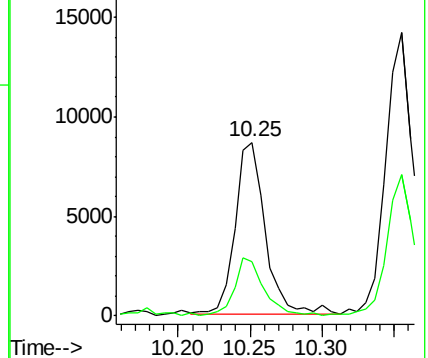
91 100

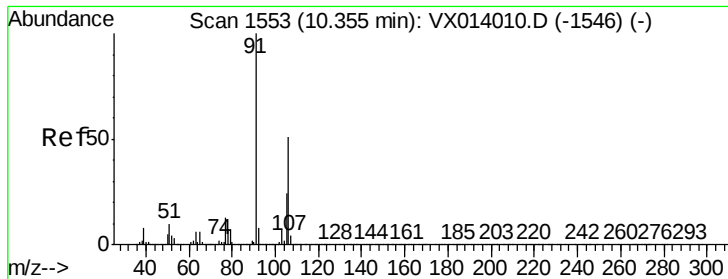
106 30.2 25.0 37.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

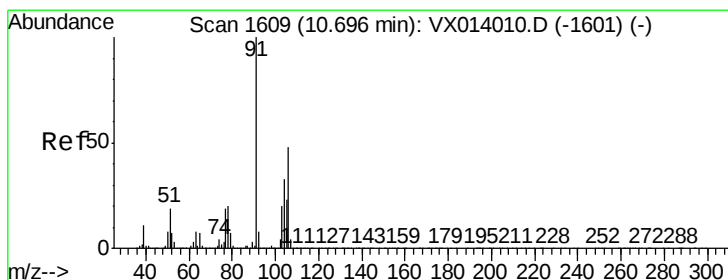
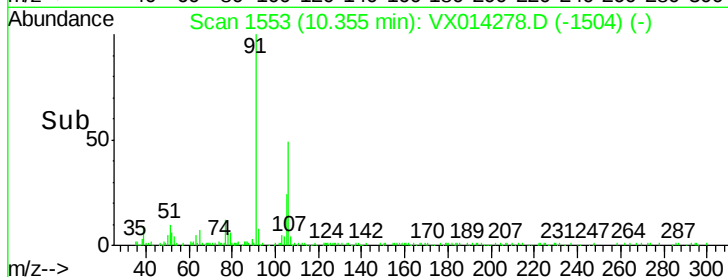
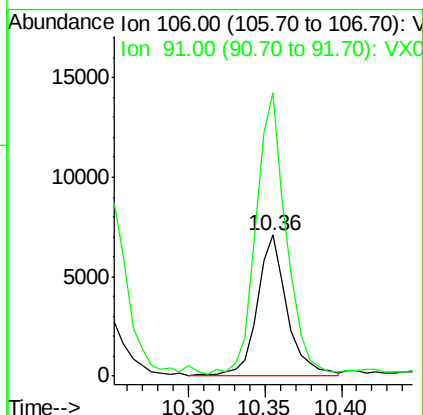
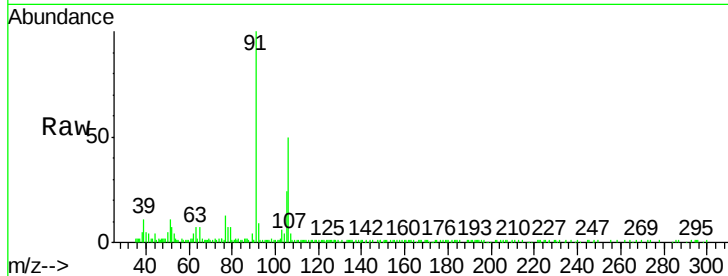




#68
m/p-Xylenes
Concen: 0.945 ug/l
RT: 10.36 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX014278.D
Acq: 26 Dec 2019 18:41

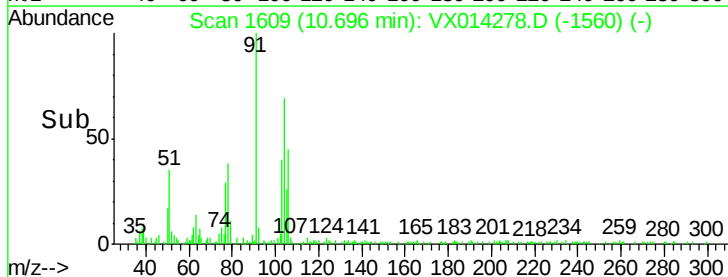
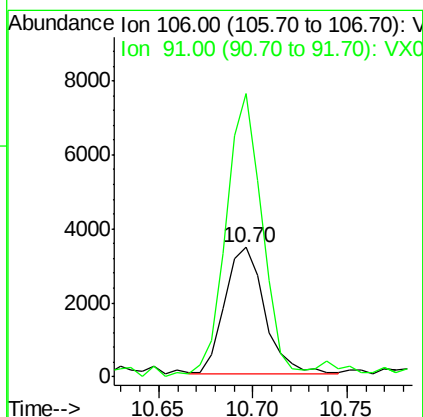
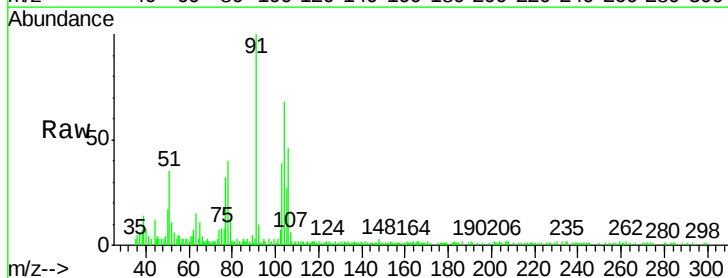
Instrument :
MSVOA_X
ClientSampled :
MW-1

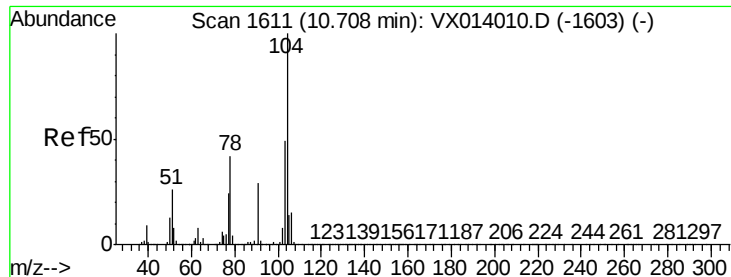
Tgt Ion:106 Resp: 9760
Ion Ratio Lower Upper
106 100
91 198.6 158.6 238.0



#69
o-Xylene
Concen: 0.499 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX014278.D
Acq: 26 Dec 2019 18:41

Tgt Ion:106 Resp: 5059
Ion Ratio Lower Upper
106 100
91 202.1 104.2 312.6

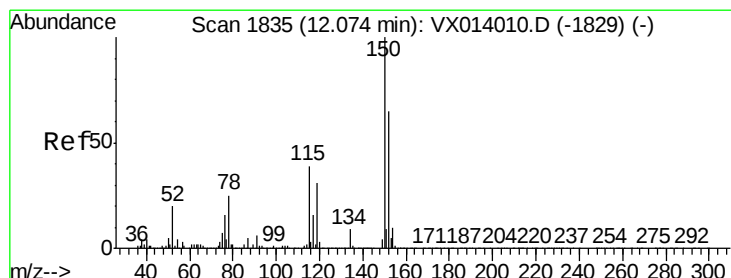
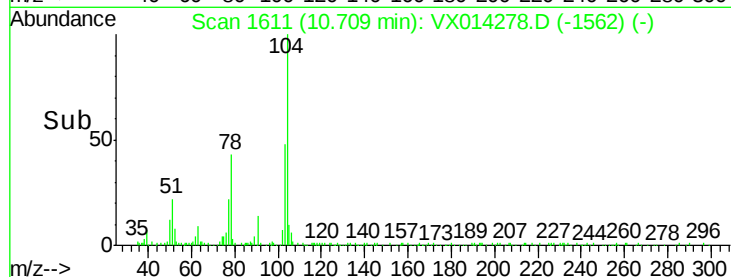
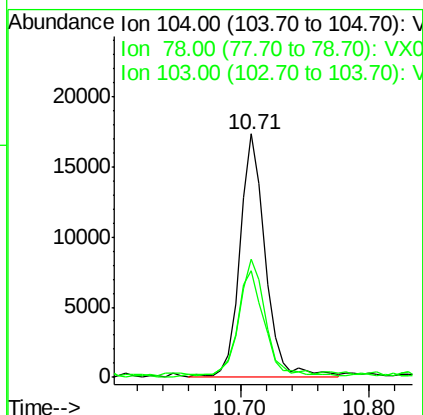
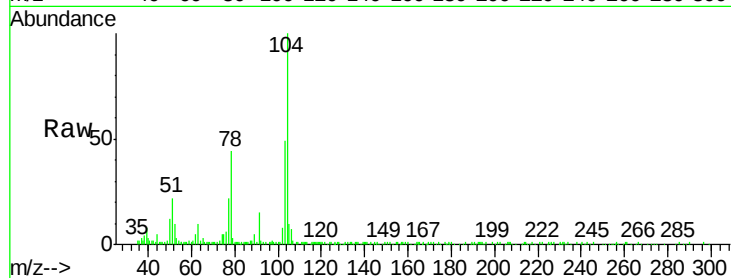




#70
Styrene
Concen: 1.384 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VX014278.D
Acq: 26 Dec 2019 18:41

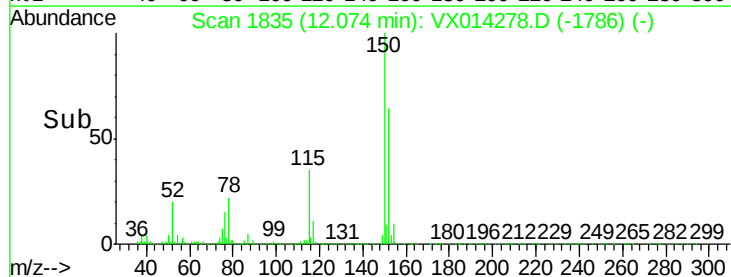
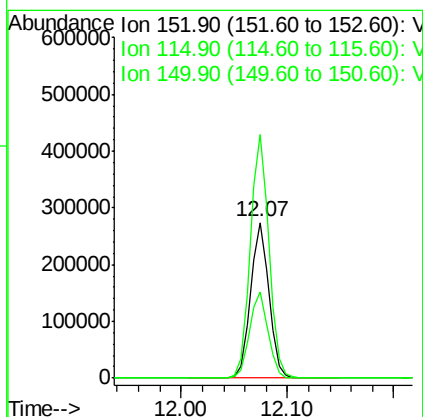
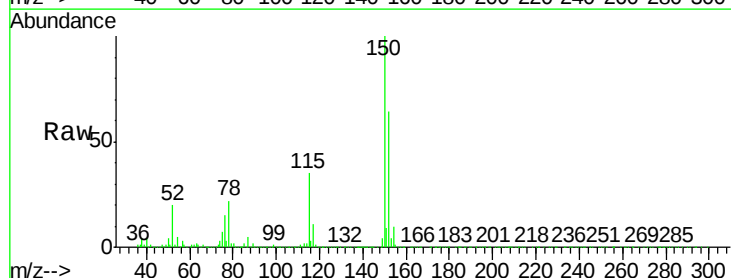
Instrument :
MSVOA_X
ClientSampleId :
MW-1

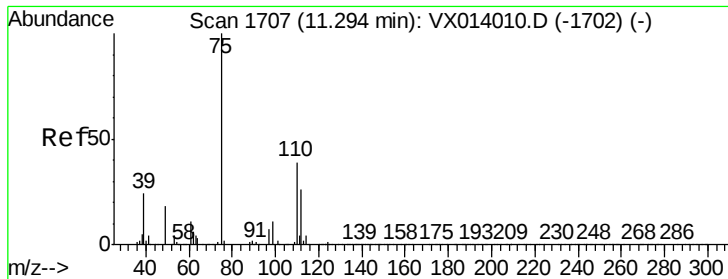
Tgt Ion:104 Resp: 23698
Ion Ratio Lower Upper
104 100
78 44.1 38.5 57.7
103 49.9 42.9 64.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014278.D
Acq: 26 Dec 2019 18:41

Tgt Ion:152 Resp: 331045
Ion Ratio Lower Upper
152 100
115 56.2 38.3 114.9
150 158.1 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 22.560 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

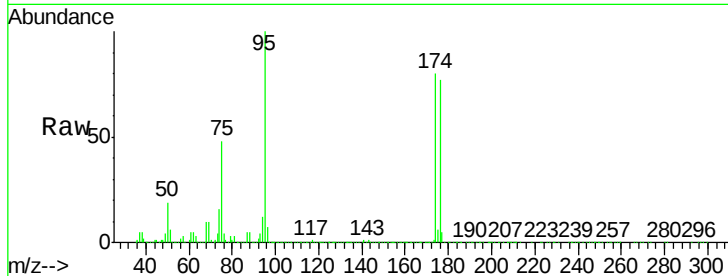
MW-1

Tgt Ion: 75 Resp: 162136

Ion Ratio Lower Upper

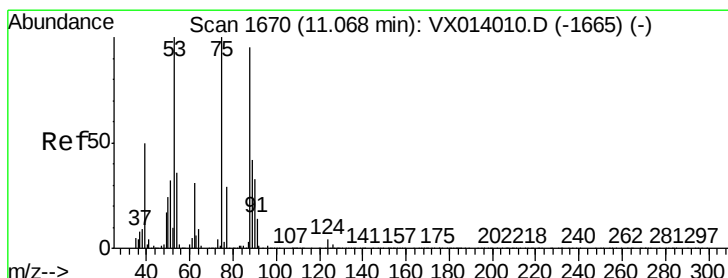
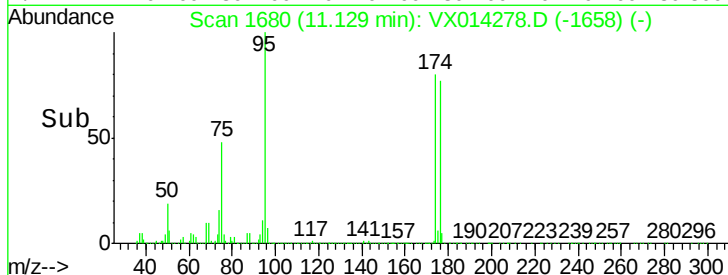
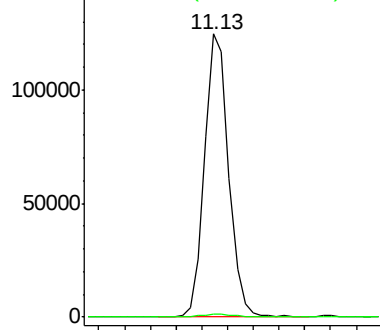
75 100

77 1.2 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 63.676 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014278.D

Acq: 26 Dec 2019 18:41

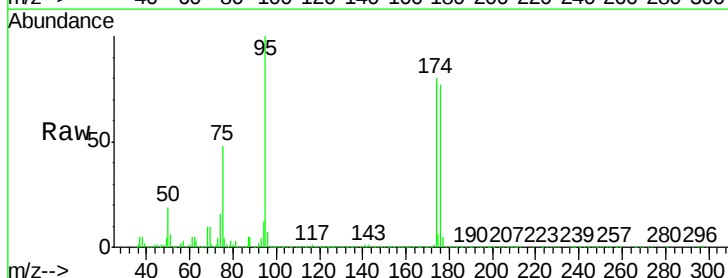
Tgt Ion: 75 Resp: 162136

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

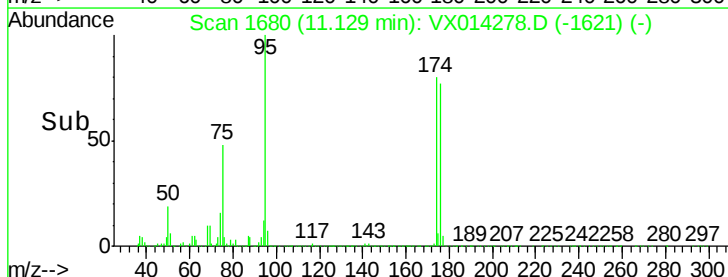
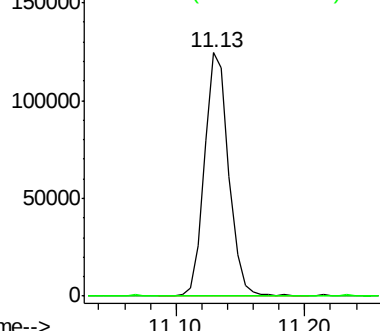
89 0.2 34.6 51.8#

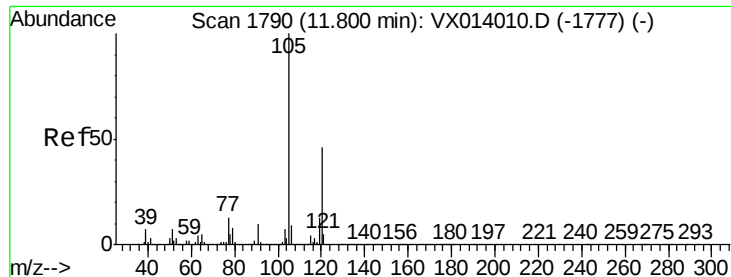


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84
 1,2,4-Trimethylbenzene
 Concen: 0.232 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.01 min
 Lab File: VX014278.D
 Acq: 26 Dec 2019 18:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

Tgt Ion:105 Resp: 4551
 Ion Ratio Lower Upper
 105 100
 120 25.6 23.1 69.2

