

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091720\
 Data File : VX018468.D
 Acq On : 17 Sep 2020 16:01
 Operator : JC/SP
 Sample : L4014-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

Quant Time: Sep 18 06:32:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	577912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	958265	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	888503	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	434592	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	391806	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
35) Dibromofluoromethane	5.47	113	318720	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
50) Toluene-d8	8.70	98	1155729	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
62) 4-Bromofluorobenzene	11.12	95	435919	45.53	ug/l	0.00
Spiked Amount			Recovery	=	91.06%	

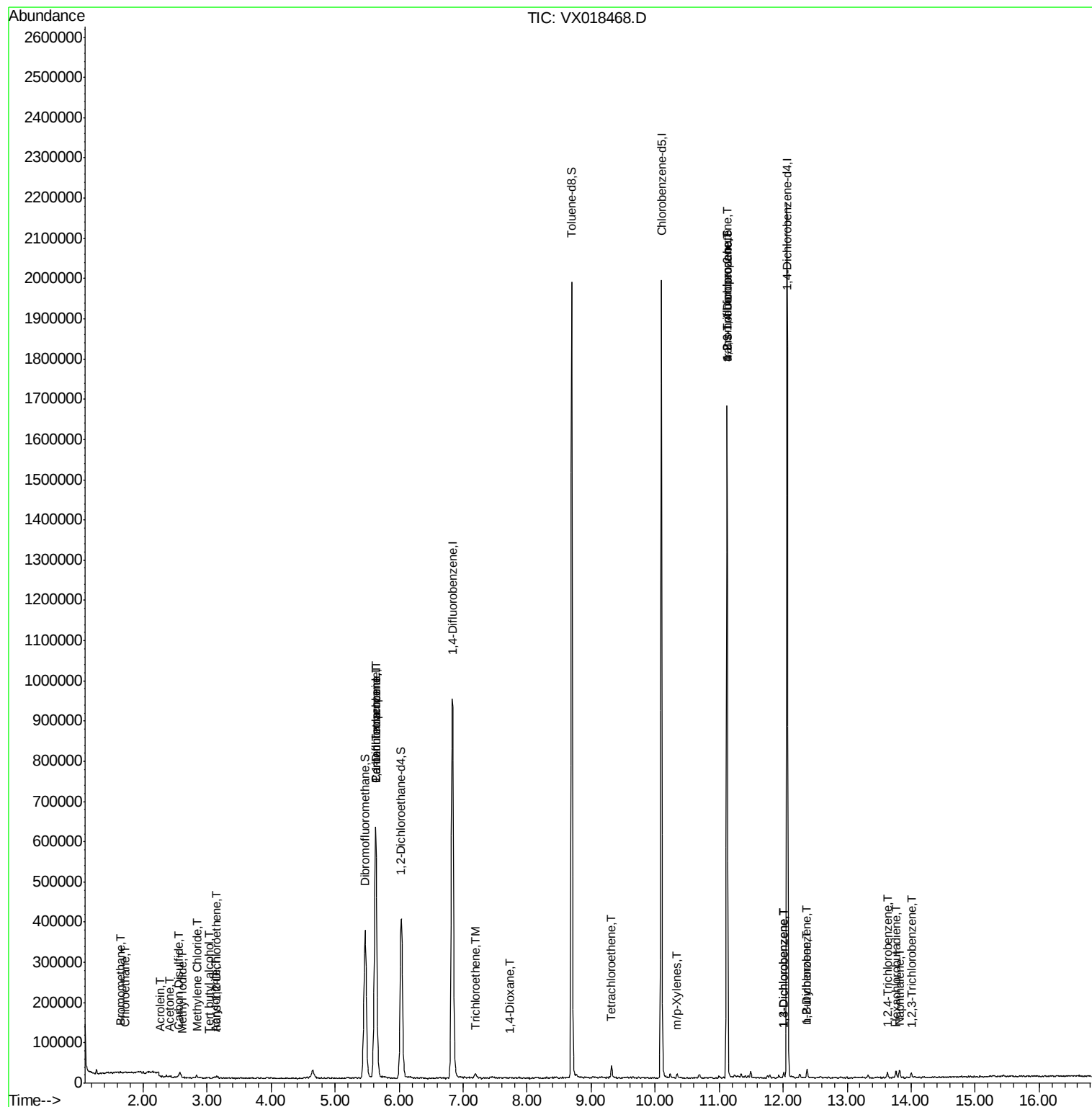
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	994	0.238	ug/l #	80
6) Chloroethane	1.72	64	963	0.248	ug/l #	70
10) Methyl Iodide	2.62	142	370	4.963	ug/l	96
11) Tert butyl alcohol	3.03	59	548	0.385	ug/l #	1
13) Acrolein	2.27	56	495	0.550	ug/l	97
15) Acrylonitrile	3.12	53	1799	0.530	ug/l #	77
16) Acetone	2.42	43	5384	1.722	ug/l	94
17) Carbon Disulfide	2.56	76	6189	0.370	ug/l #	75
20) Methylene Chloride	2.84	84	2696	0.391	ug/l #	72
21) trans-1,2-Dichloroethene	3.15	96	1326	0.204	ug/l #	35
36) 1,1-Dichloropropene	5.63	75	44836	4.821	ug/l #	52
38) Carbon Tetrachloride	5.64	117	60956	5.918	ug/l #	18
44) Trichloroethene	7.20	130	3476	0.450	ug/l	98
49) 1,4-Dioxane	7.71	88	428	3.229	ug/l #	70
64) Tetrachloroethene	9.32	164	6602	0.944	ug/l	90
68) m/p-Xylenes	10.34	106	2784	0.232	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	217895	23.859	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	217895	61.138	ug/l #	12
87) 1,3-Dichlorobenzene	12.01	146	4276	0.297	ug/l	94
88) 1,4-Dichlorobenzene	12.01	146	4276	0.293	ug/l	94
89) n-Butylbenzene	12.37	91	5707	0.236	ug/l	92
91) 1,2-Dichlorobenzene	12.38	146	2785	0.207	ug/l	86
93) 1,2,4-Trichlorobenzene	13.63	180	3428	0.365	ug/l	92
94) Hexachlorobutadiene	13.77	225	2116	0.537	ug/l	99
95) Naphthalene	13.82	128	13134	0.464	ug/l	97
96) 1,2,3-Trichlorobenzene	14.01	180	2991	0.334	ug/l	90

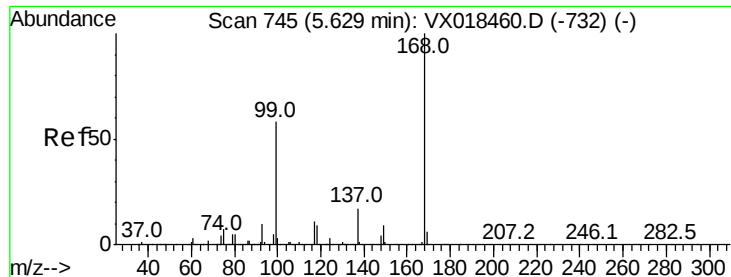
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091720\
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Quant Time: Sep 18 06:32:54 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
Quant Title : SW846 8260
QLast Update : Thu Sep 17 12:17:36 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

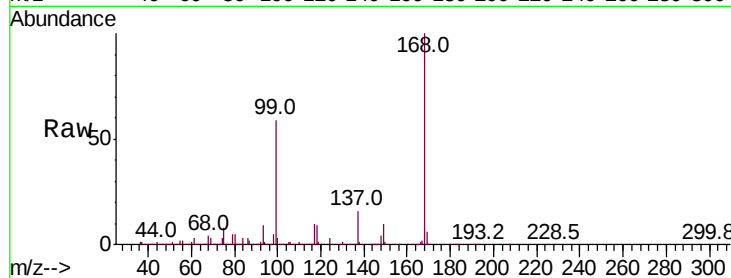
MW-1

Tot Ion:168 Resp: 577912

Ion Ratio Lower Upper

168 100

99 59.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

100000

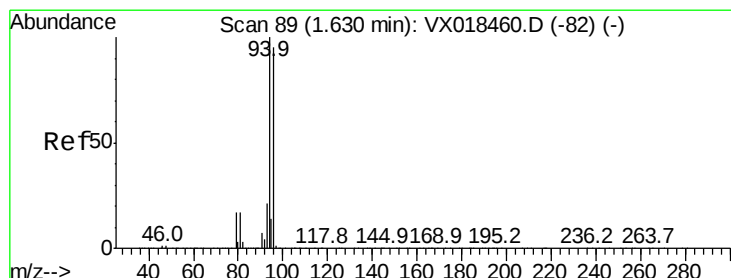
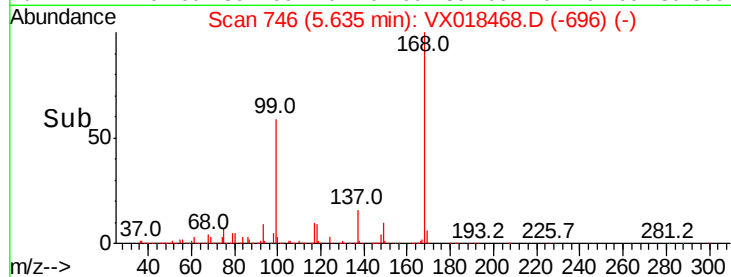
50000

0

5.50 5.60 5.70

5.64

Time-->



#5

Bromomethane

Concen: 0.238 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX018468.D

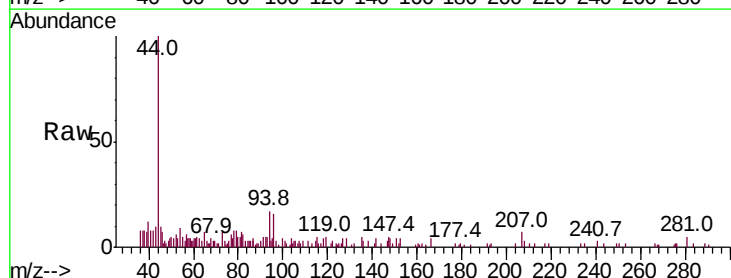
Acq: 17 Sep 2020 16:01

Tgt Ion: 94 Resp: 994

Ion Ratio Lower Upper

94 100

96 74.8 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

400

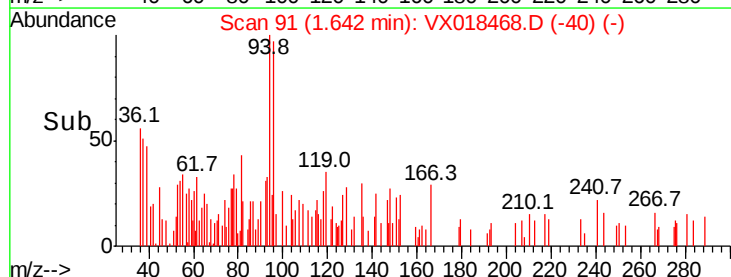
200

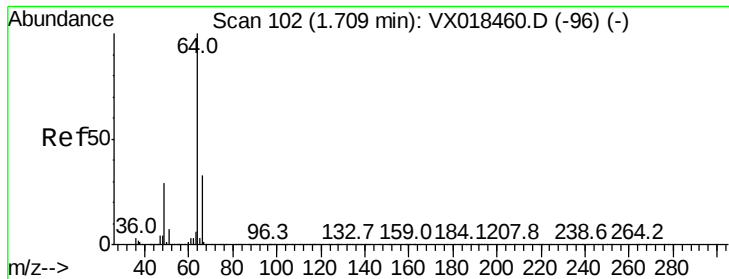
0

1.60 1.65

1.64

Time-->





#6

Chloroethane

Concen: 0.248 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

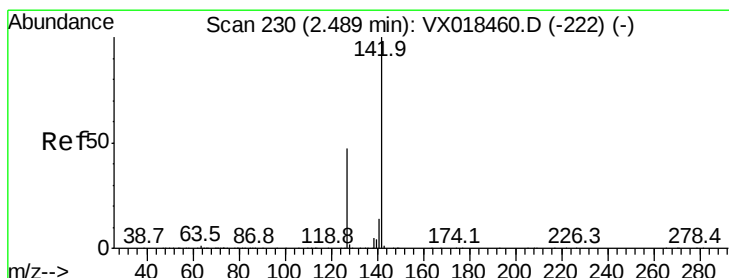
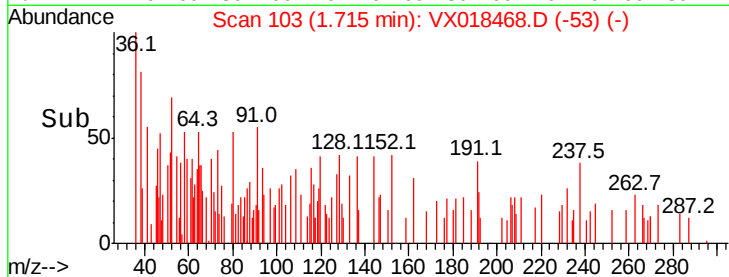
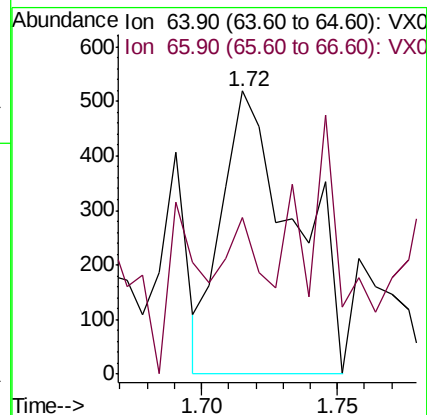
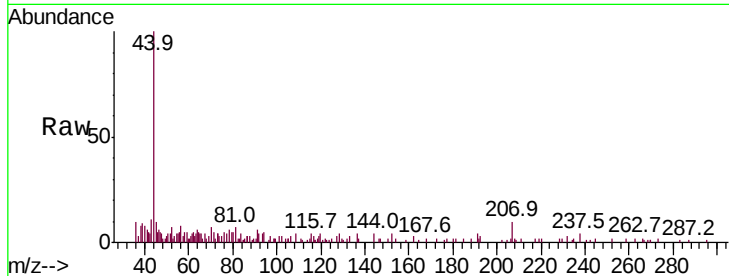
MW-1

Tot Ion: 64 Resp: 963

Ion Ratio Lower Upper

64 100

66 15.6 26.2 39.4#



#10

Methyl Iodide

Concen: 4.963 ug/l

RT: 2.62 min Scan# 251

Delta R.T. 0.13 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

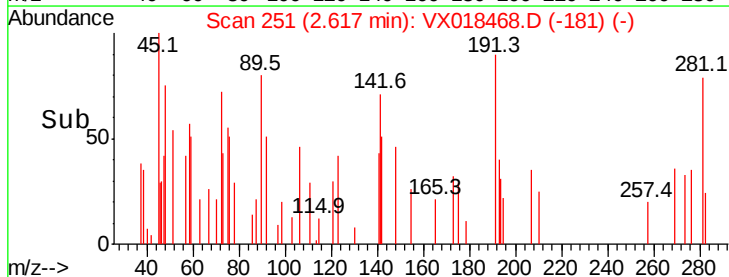
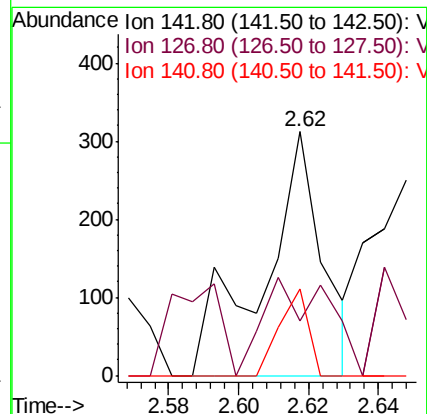
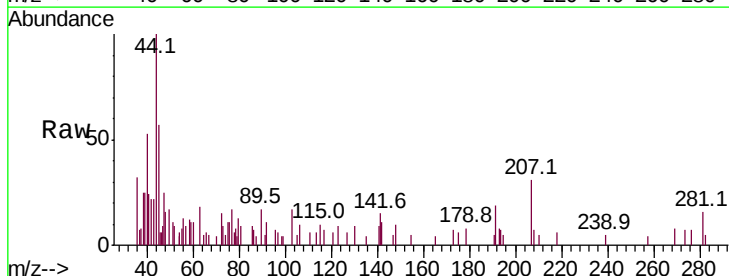
Tgt Ion: 142 Resp: 370

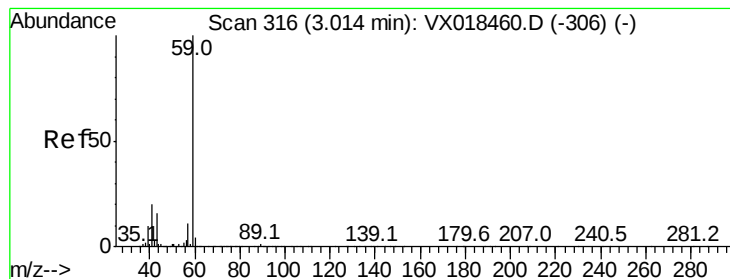
Ion Ratio Lower Upper

142 100

127 43.0 36.0 54.0

141 17.0 11.9 17.9



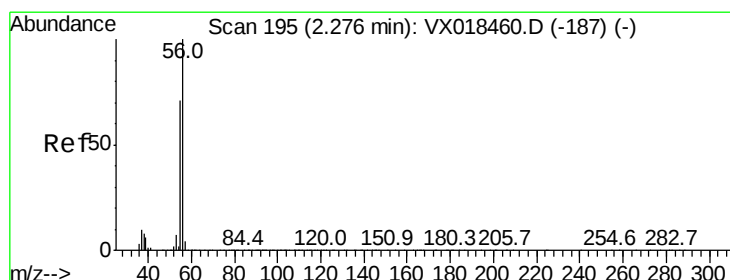
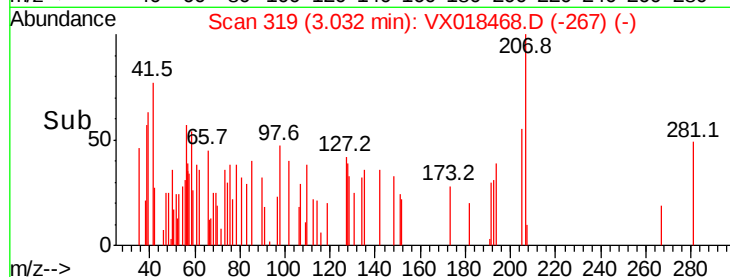
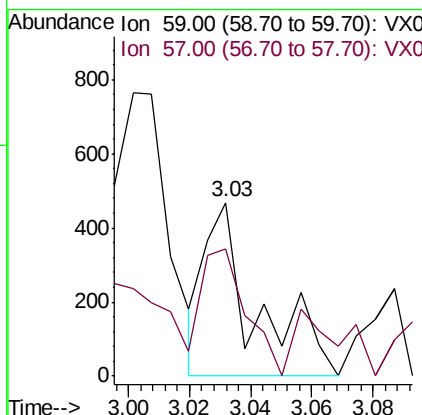
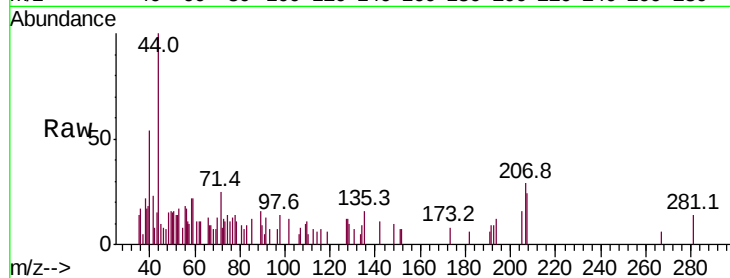


#11

Tert butyl alcohol
 Concen: 0.385 ug/l
 RT: 3.03 min Scan# 319
 Delta R.T. 0.02 min
 Lab File: VX018468.D
 Acq: 17 Sep 2020 16:01

Instrument :
 MSVOA_X
 ClientSampled :
 MW-1

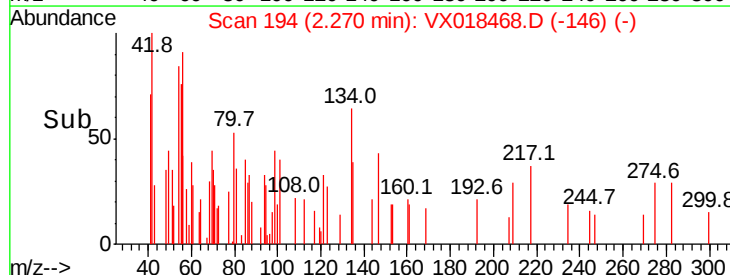
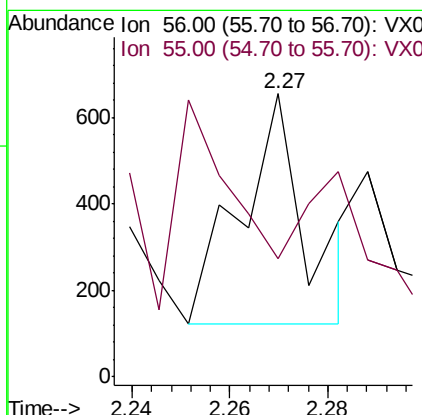
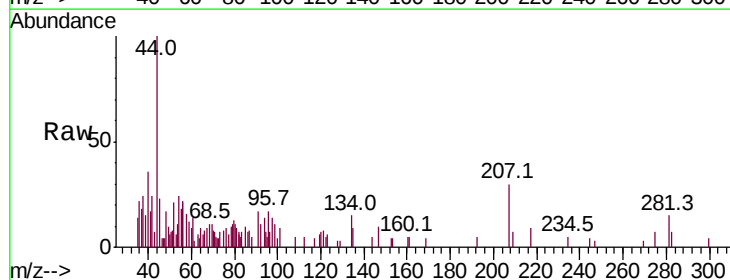
Tot Ion: 59 Resp: 548
 Ion Ratio Lower Upper
 59 100
 57 63.5 8.2 12.4#

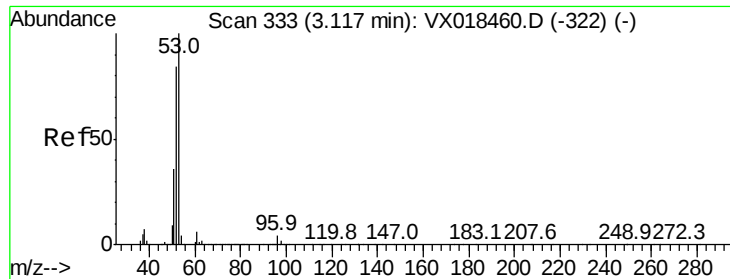


#13

Acrolein
 Concen: 0.550 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. -0.01 min
 Lab File: VX018468.D
 Acq: 17 Sep 2020 16:01

Tgt Ion: 56 Resp: 495
 Ion Ratio Lower Upper
 56 100
 55 74.9 58.2 87.4





#15

Acrylonitrile

Concen: 0.530 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

MW-1

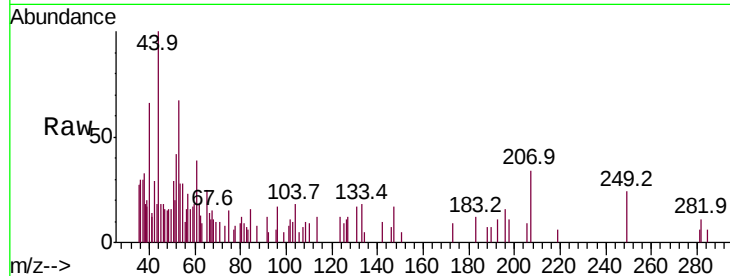
Tot Ion: 53 Resp: 1799

Ion Ratio Lower Upper

53 100

52 67.6 65.8 98.8

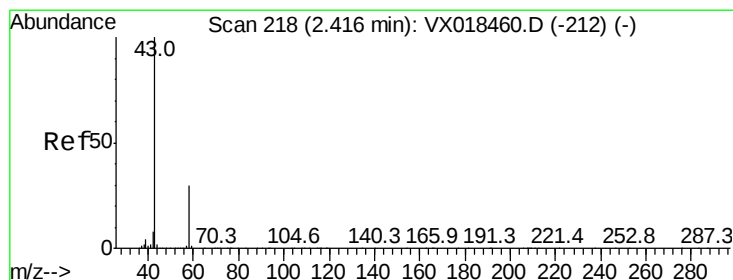
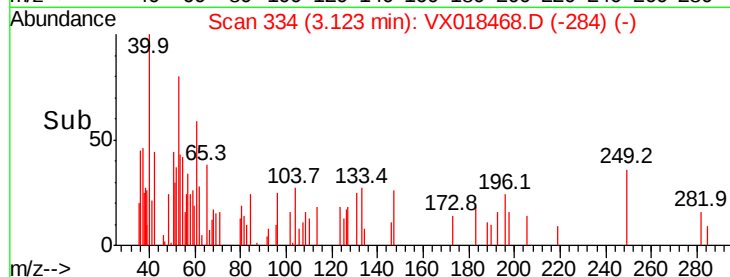
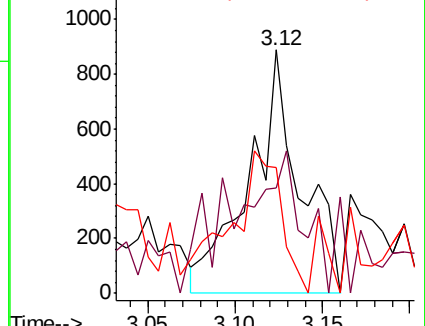
51 59.4 29.2 43.8#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.722 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX018468.D

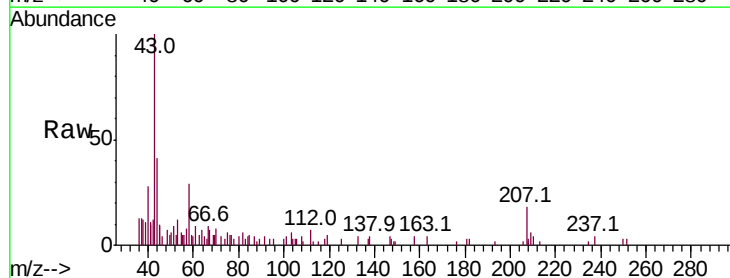
Acq: 17 Sep 2020 16:01

Tgt Ion: 43 Resp: 5384

Ion Ratio Lower Upper

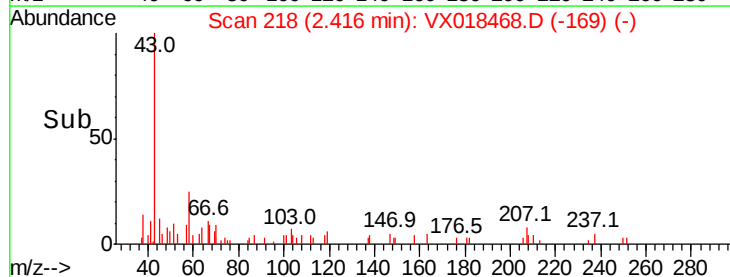
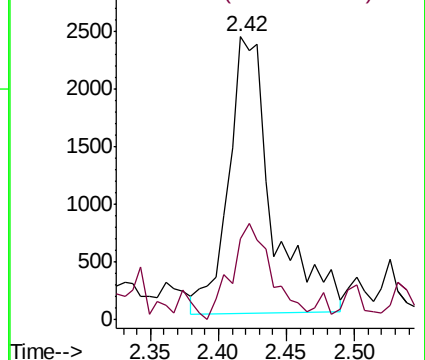
43 100

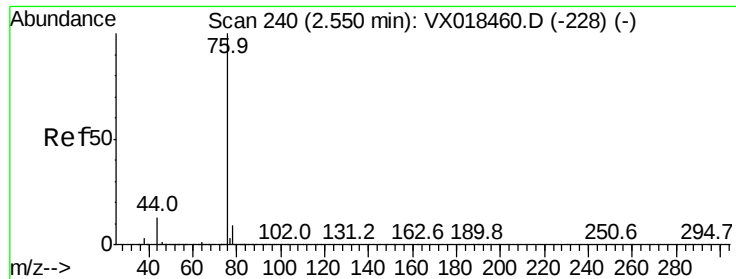
58 26.6 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.370 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

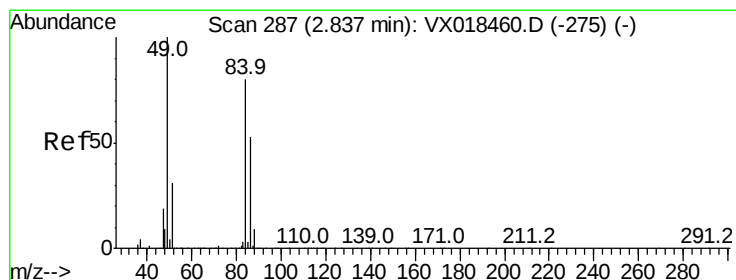
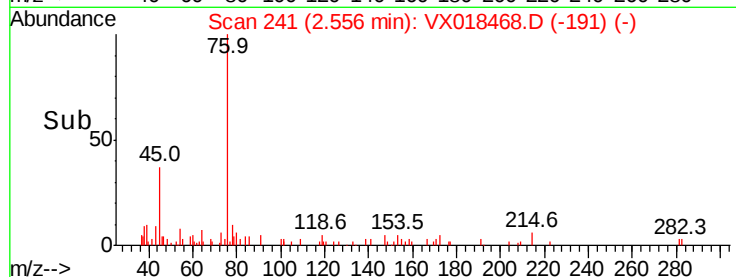
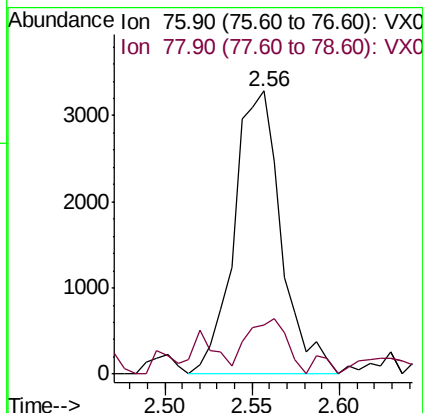
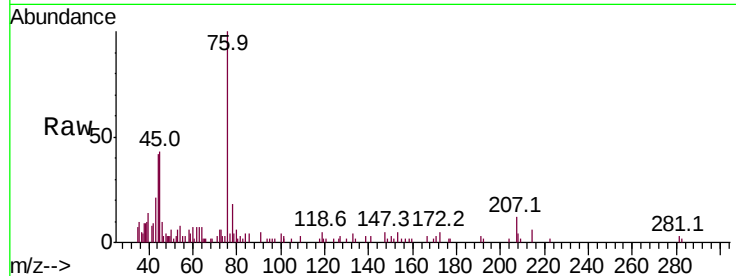
MW-1

Tot Ion: 76 Resp: 6189

Ion Ratio Lower Upper

76 100

78 17.6 7.0 10.4#



#20

Methylene Chloride

Concen: 0.391 ug/l

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Tgt Ion: 84 Resp: 2696

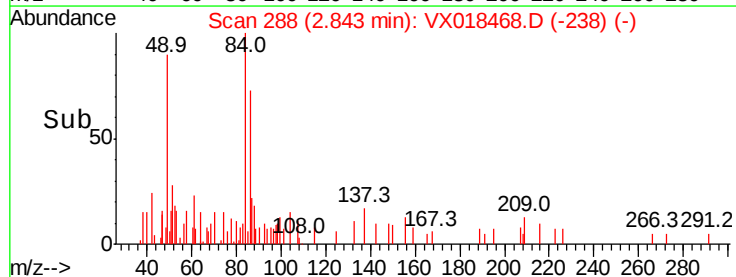
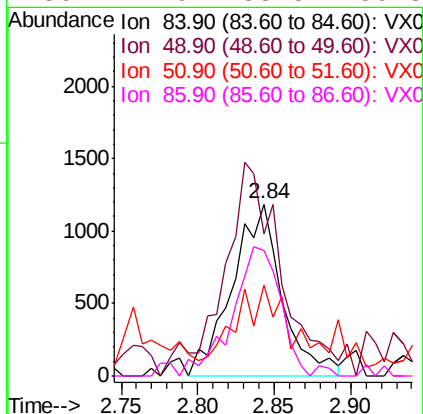
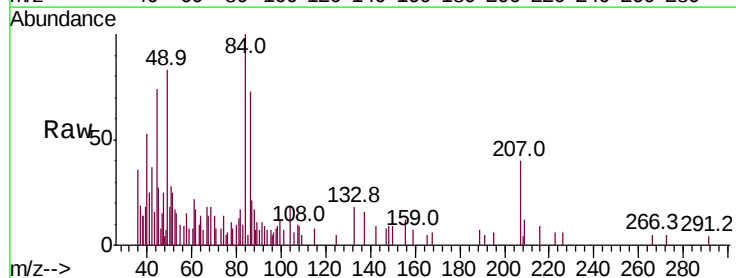
Ion Ratio Lower Upper

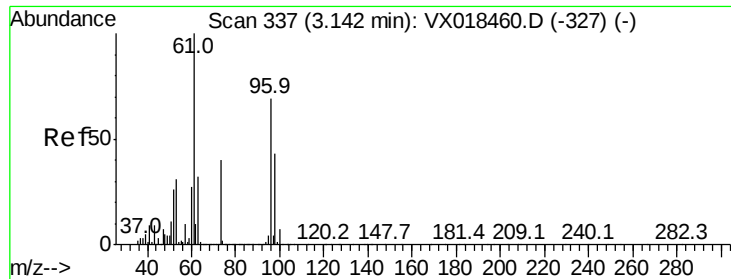
84 100

49 74.0 100.6 151.0#

51 33.5 30.9 46.3

86 72.9 53.5 80.3





#21

trans-1,2-Dichloroethene

Concen: 0.204 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampled :

MW-1

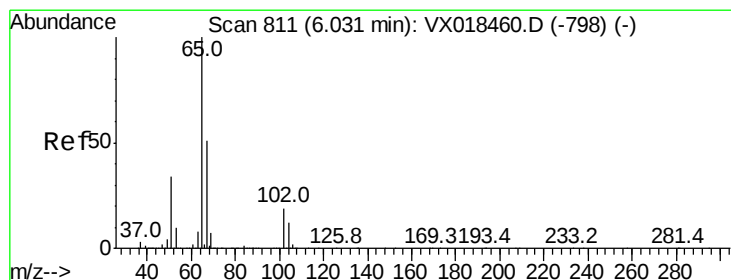
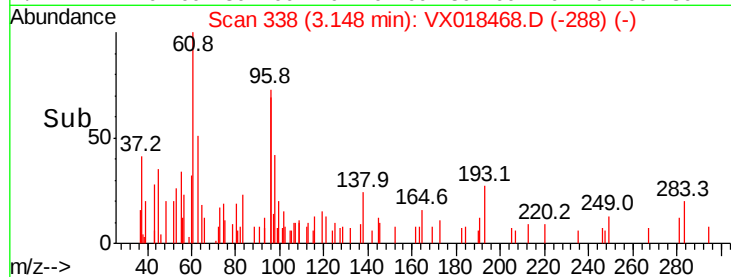
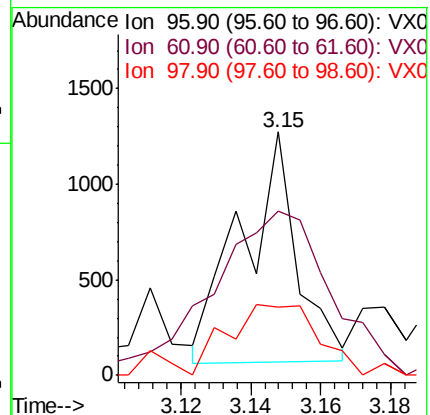
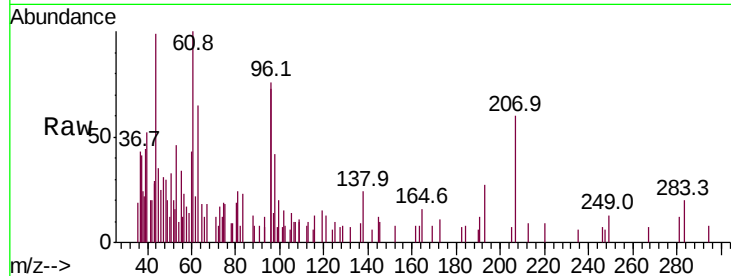
Tot Ion: 96 Resp: 1326

Ion Ratio Lower Upper

96 100

61 49.8 115.6 173.4#

98 31.6 50.2 75.4#



#33

1,2-Dichloroethane-d4

Concen: 47.925 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018468.D

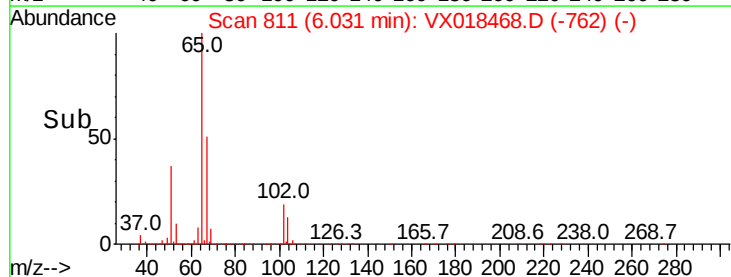
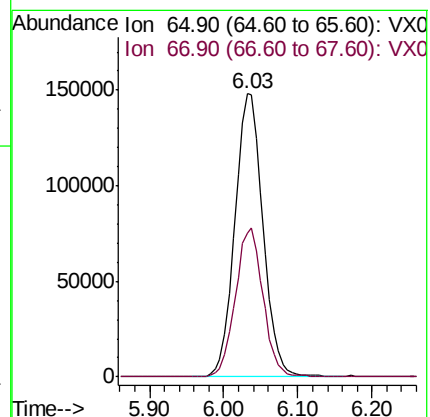
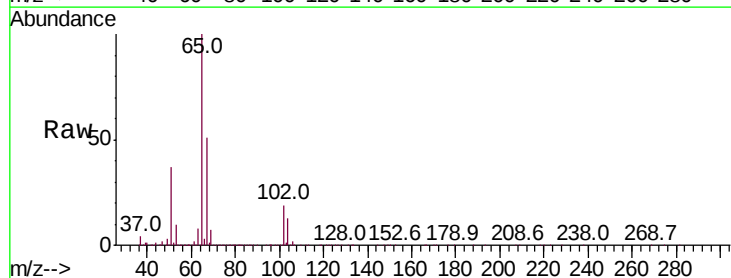
Acq: 17 Sep 2020 16:01

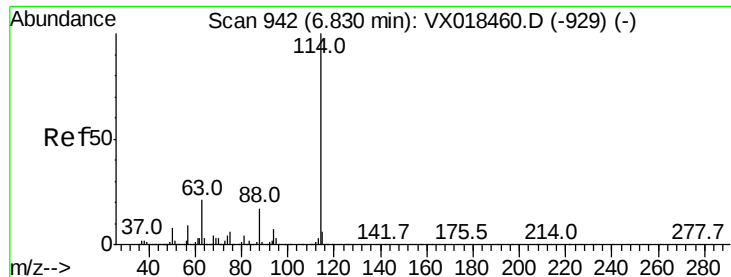
Tgt Ion: 65 Resp: 391806

Ion Ratio Lower Upper

65 100

67 51.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampled :

MW-1

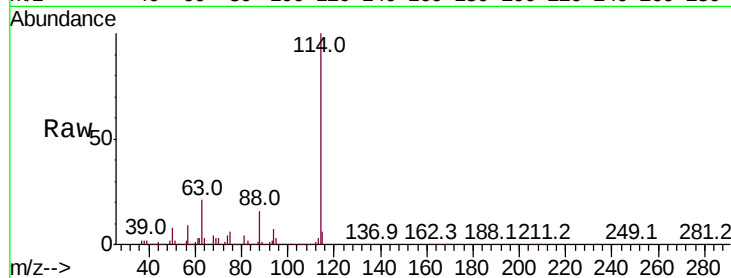
Tot Ion:114 Resp: 958265

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.8

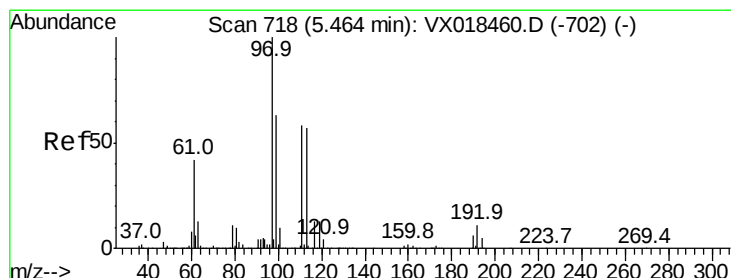
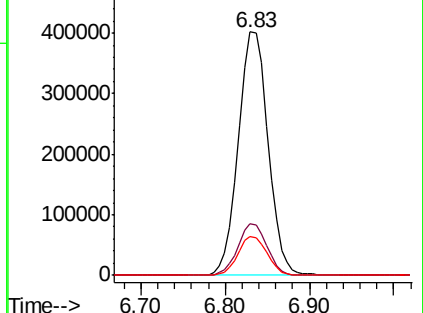
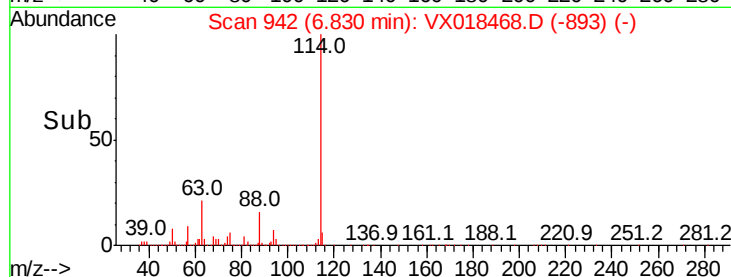
88 16.0 0.0 33.6



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: 48.111 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

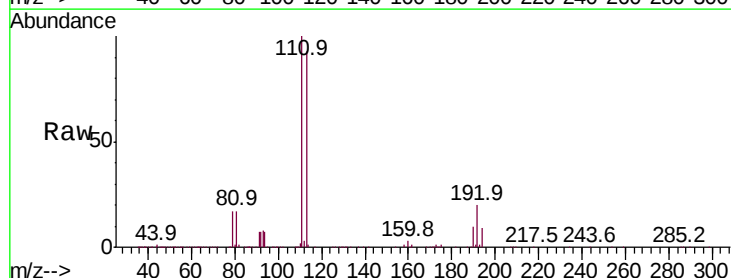
Tgt Ion:113 Resp: 318720

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.2

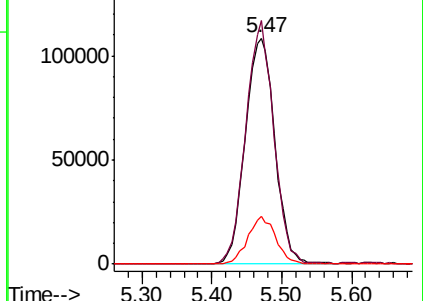
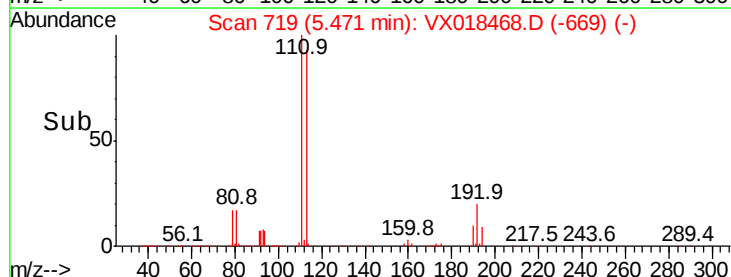
192 19.9 16.6 24.8

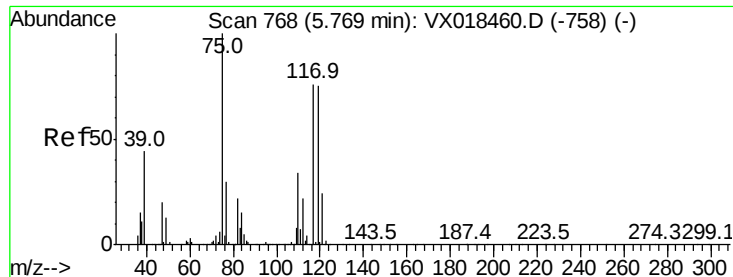


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.821 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

MW-1

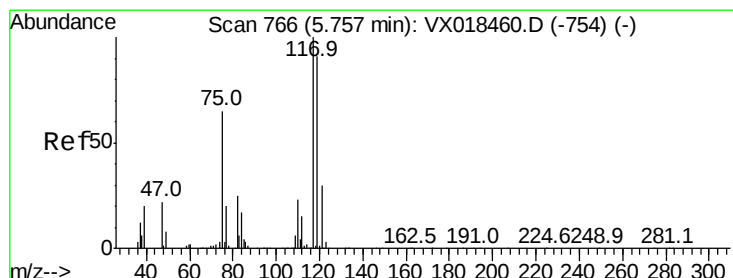
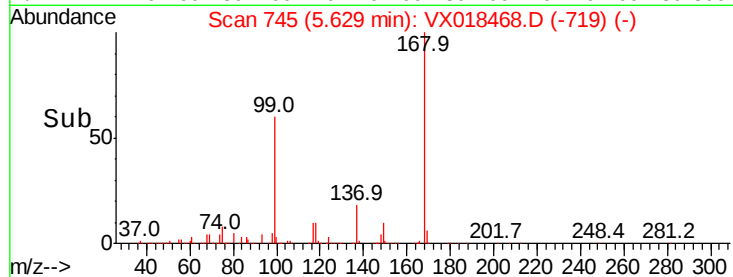
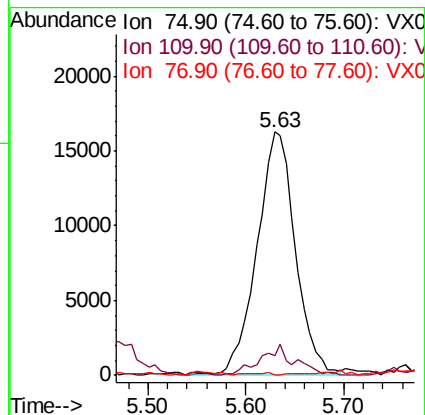
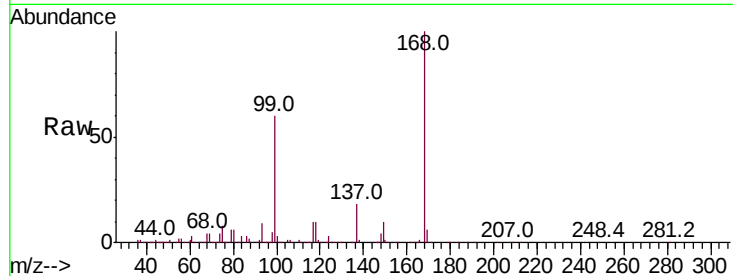
Tot Ion: 75 Resp: 44836

Ion Ratio Lower Upper

75 100

110 11.2 17.6 52.8#

77 0.5 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.918 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

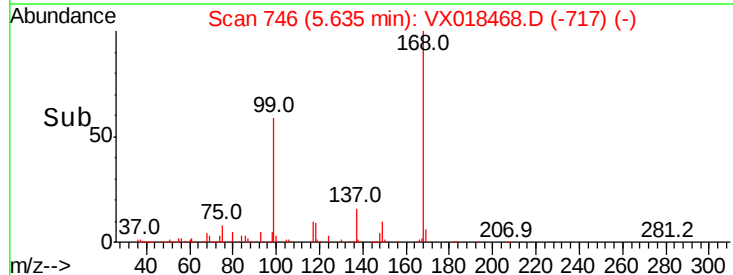
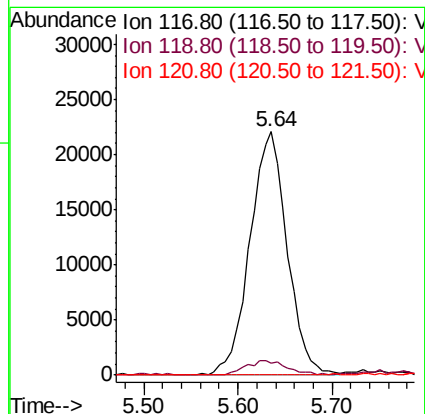
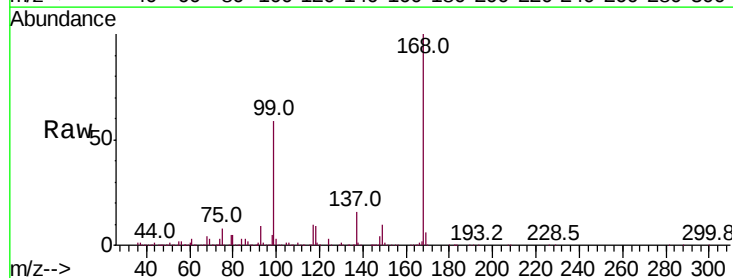
Tgt Ion: 117 Resp: 60956

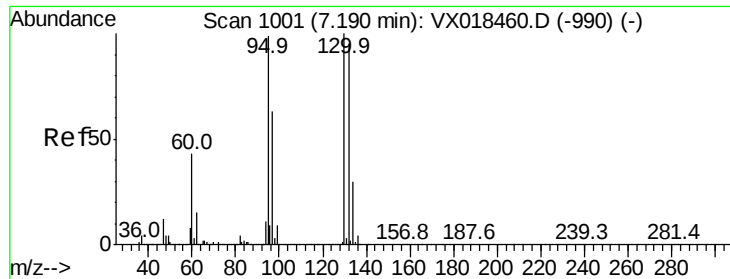
Ion Ratio Lower Upper

117 100

119 4.9 72.3 108.5#

121 0.0 23.8 35.8#





#44

Trichloroethene

Concen: 0.450 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

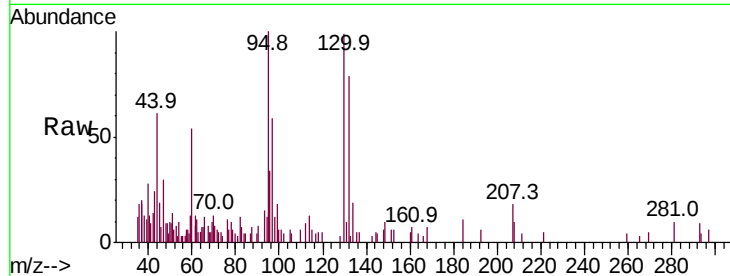
MW-1

Tot Ion:130 Resp: 3476

Ion Ratio Lower Upper

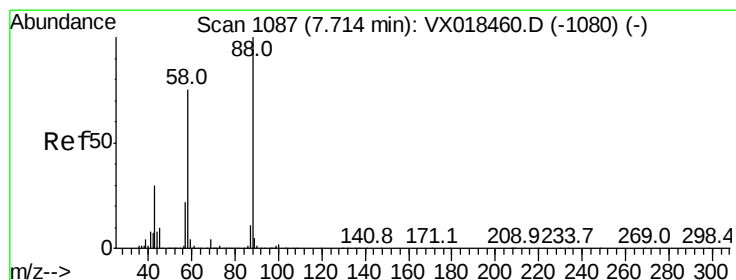
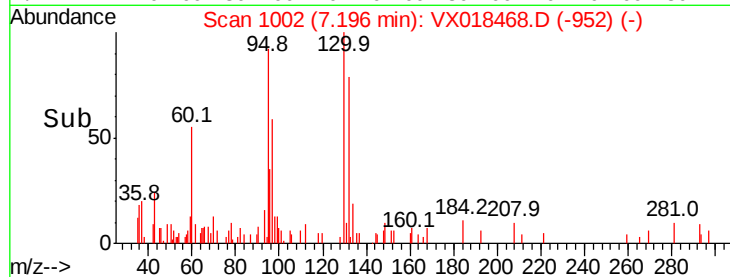
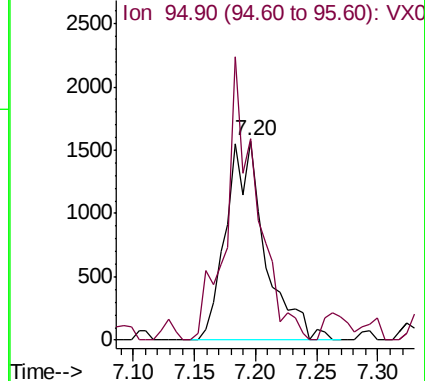
130 100

95 101.0 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 3.229 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

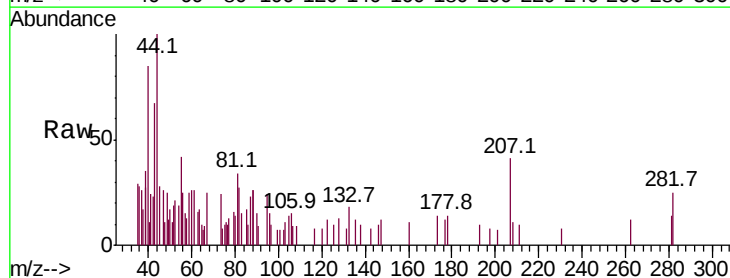
Tgt Ion: 88 Resp: 428

Ion Ratio Lower Upper

88 100

43 0.0 29.9 44.9#

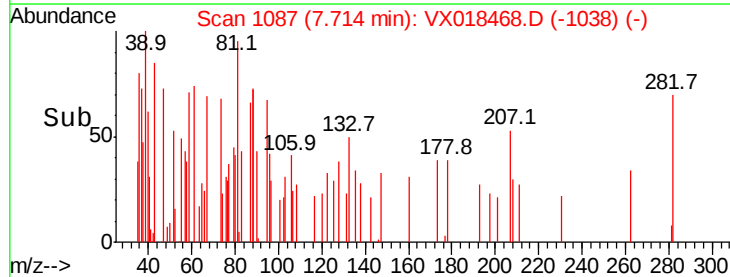
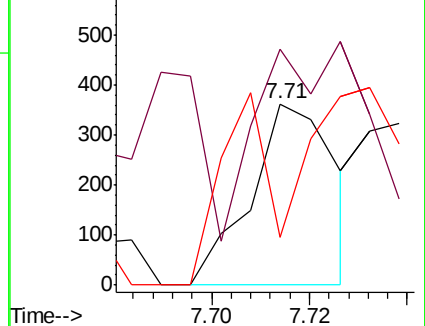
58 62.6 59.0 88.6

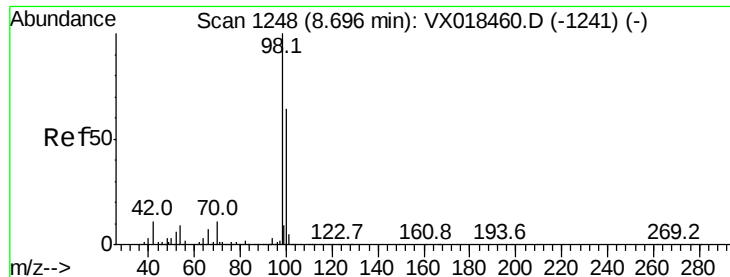


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.016 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

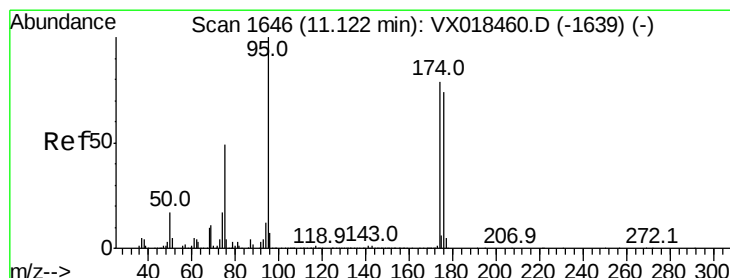
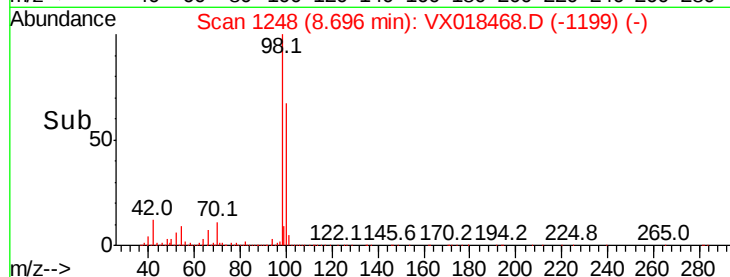
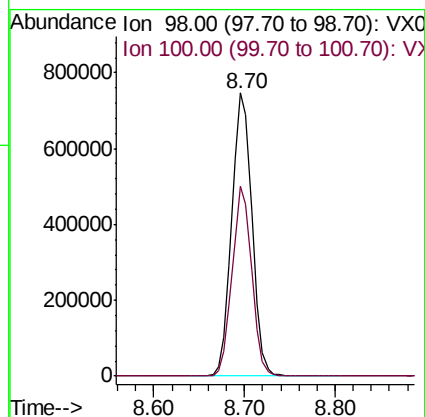
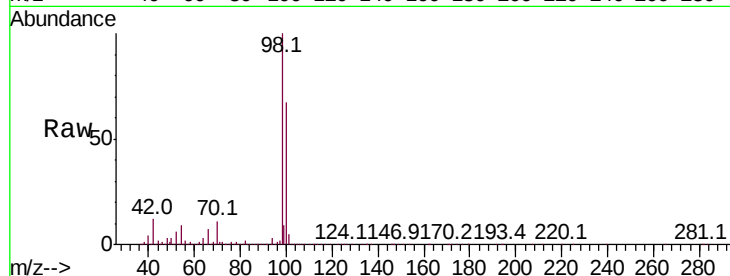
MW-1

Tot Ion: 98 Resp: 1155729

Ion Ratio Lower Upper

98 100

100 64.7 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 45.530 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

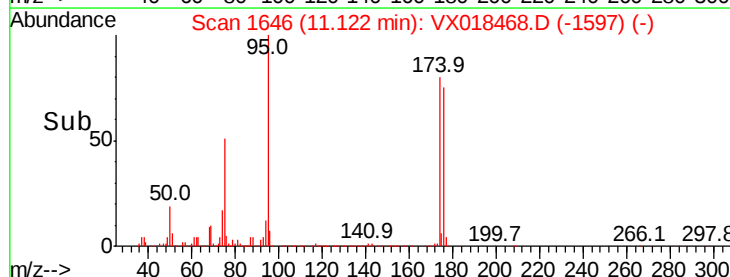
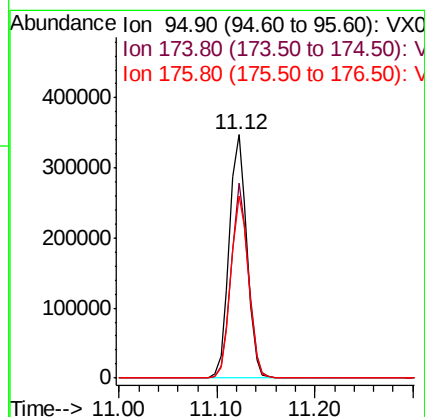
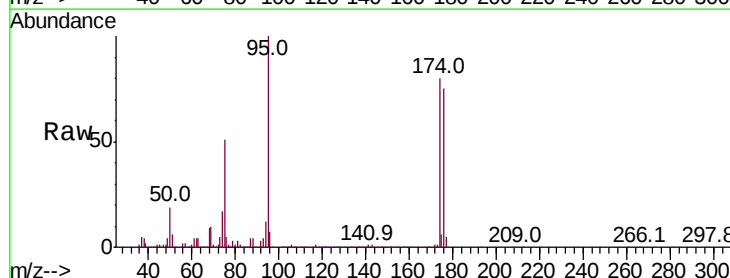
Tgt Ion: 95 Resp: 435919

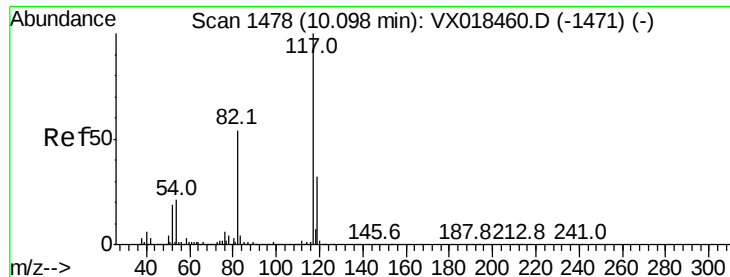
Ion Ratio Lower Upper

95 100

174 78.3 0.0 161.4

176 75.6 0.0 151.4

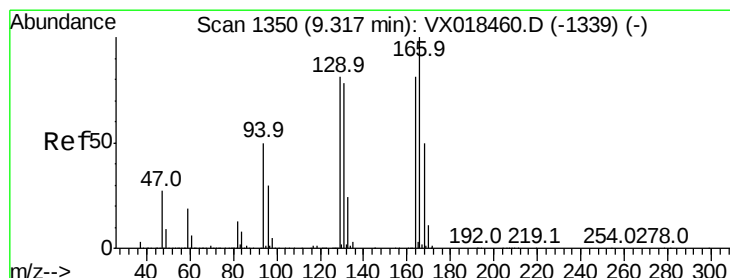
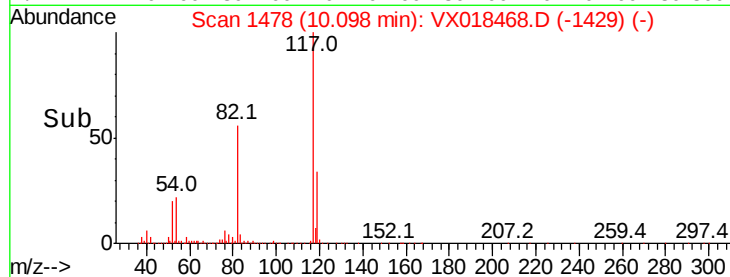
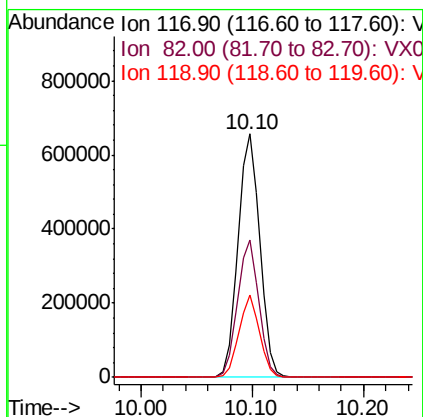
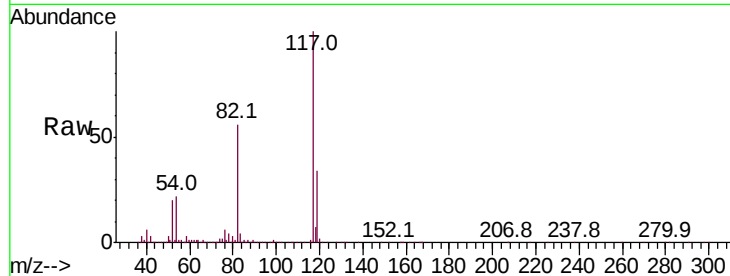




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018468.D
Acq: 17 Sep 2020 16:01

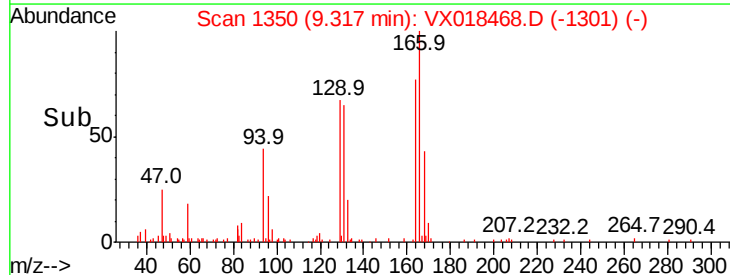
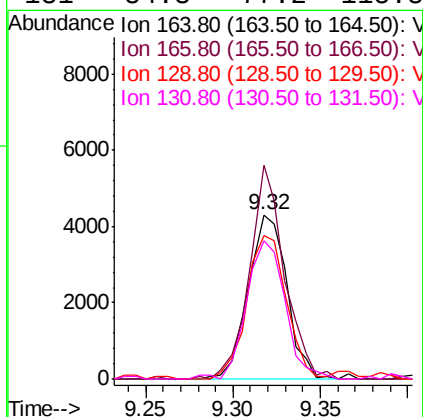
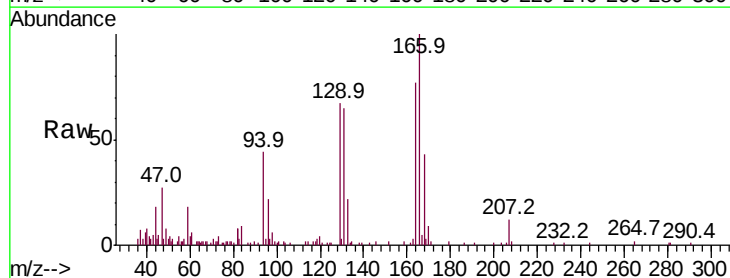
Instrument :
MSVOA_X
ClientSampleId :
MW-1

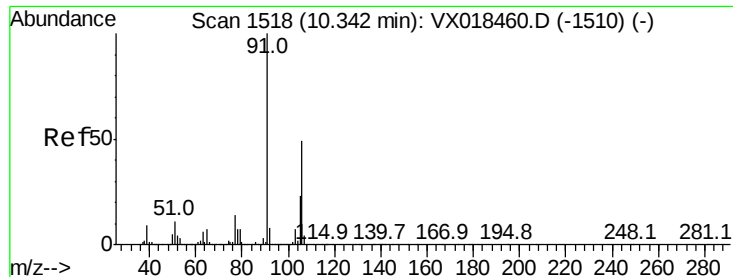
Tot Ion:117 Resp: 888503
Ion Ratio Lower Upper
117 100
82 56.3 43.3 64.9
119 34.0 25.9 38.9



#64
Tetrachloroethene
Concen: 0.944 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX018468.D
Acq: 17 Sep 2020 16:01

Tgt Ion:164 Resp: 6602
Ion Ratio Lower Upper
164 100
166 130.2 99.3 148.9
129 87.6 80.7 121.1
131 84.3 77.2 115.8





#68

m/p-Xvlenes

Concen: 0.232 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

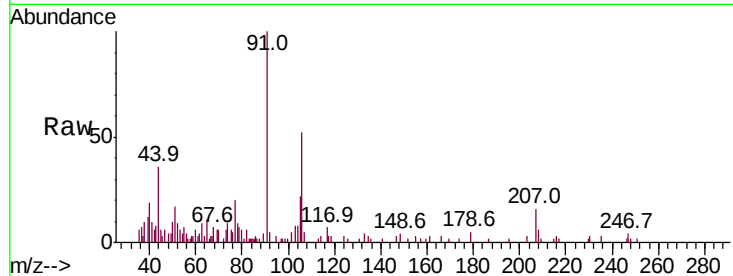
MW-1

Tot Ion:106 Resp: 2784

Ion Ratio Lower Upper

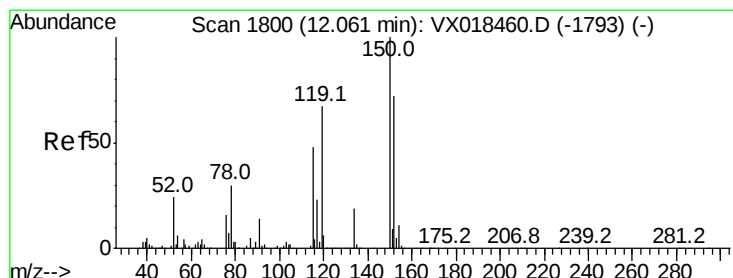
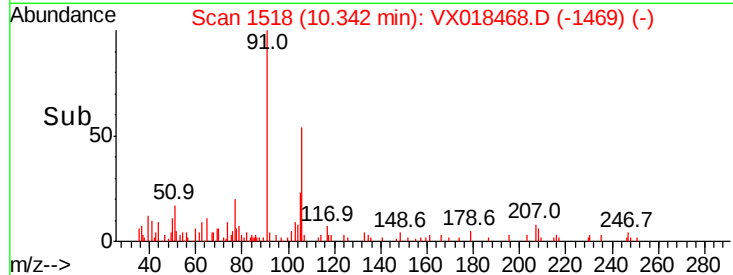
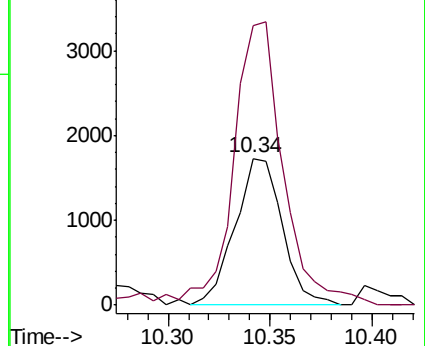
106 100

91 203.4 163.8 245.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

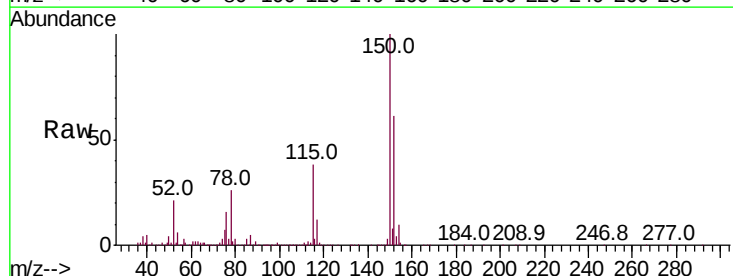
Tgt Ion:152 Resp: 434592

Ion Ratio Lower Upper

152 100

115 60.2 41.8 125.4

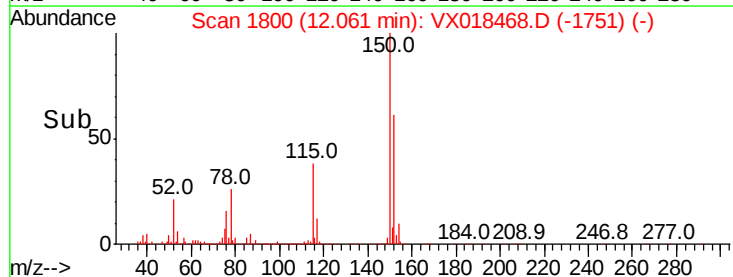
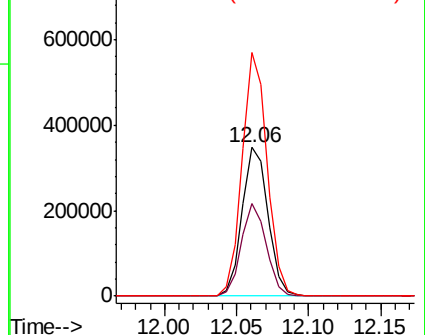
150 157.7 0.0 342.4

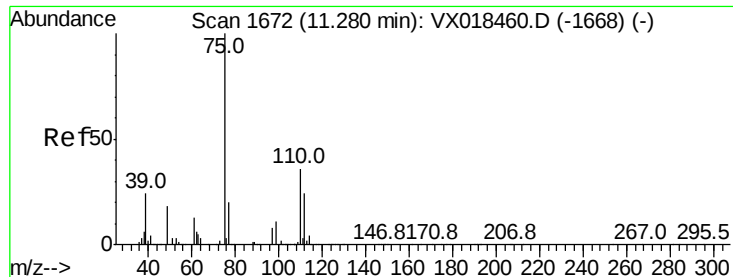


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.859 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

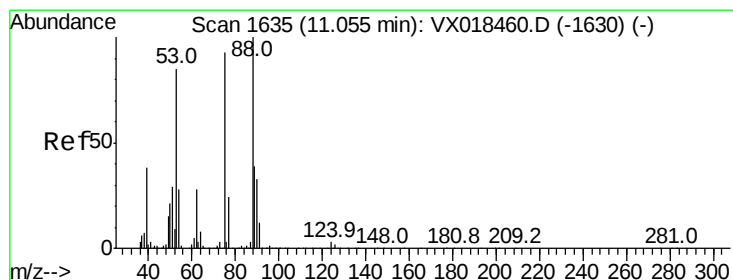
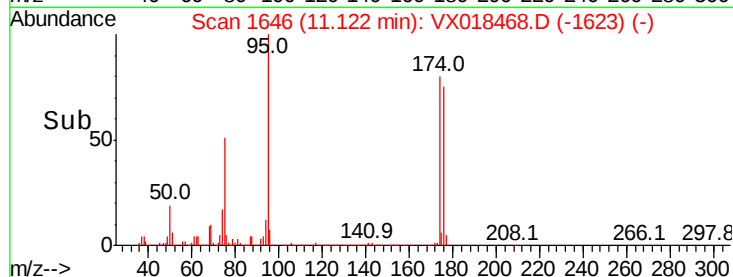
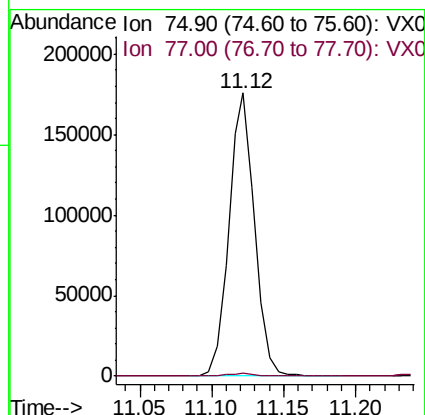
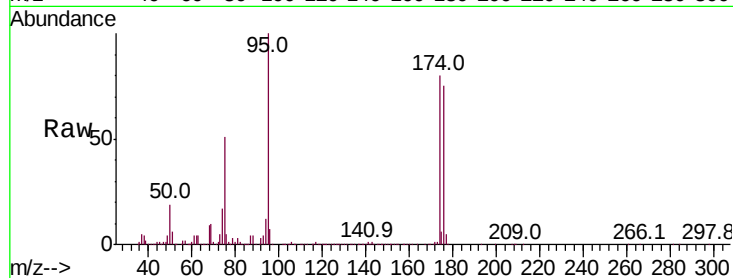
MW-1

Tot Ion: 75 Resp: 217895

Ion Ratio Lower Upper

75 100

77 1.3 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.138 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

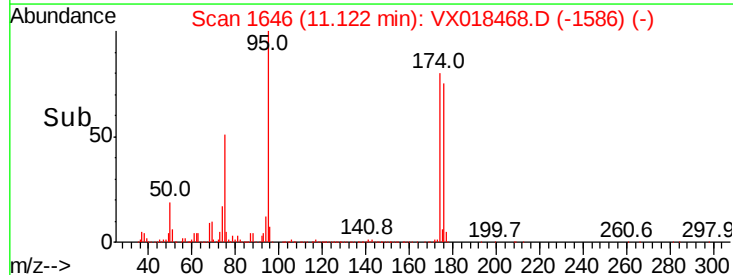
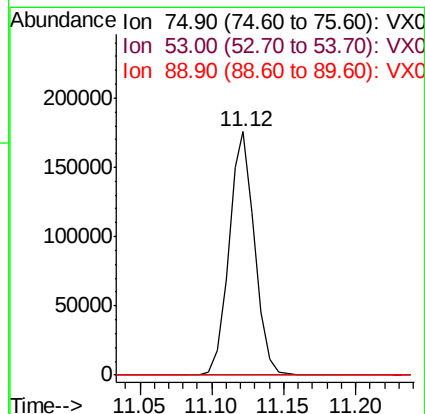
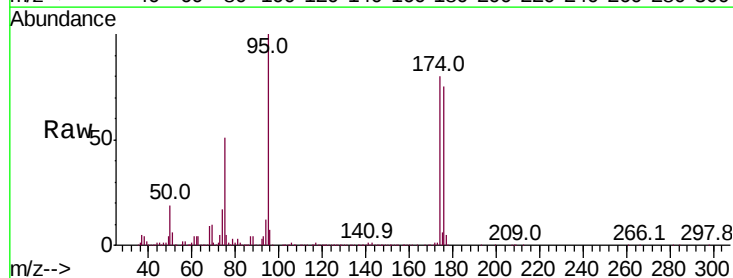
Tgt Ion: 75 Resp: 217895

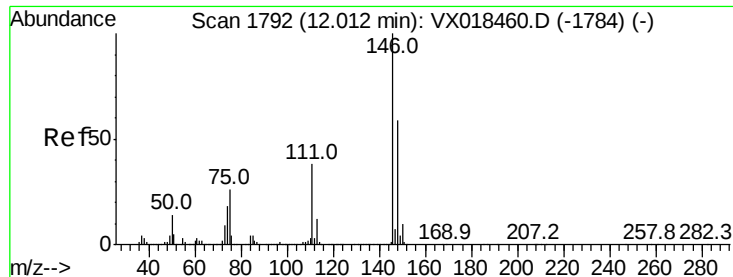
Ion Ratio Lower Upper

75 100

53 0.2 74.6 111.8#

89 0.2 36.2 54.4#





#87

1,3-Dichlorobenzene

Concen: 0.297 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampled :

MW-1

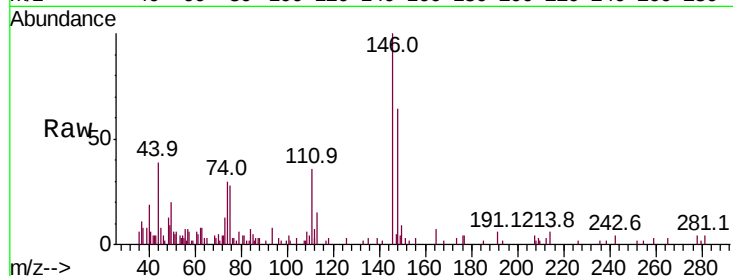
Tot Ion:146 Resp: 4276

Ion Ratio Lower Upper

146 100

111 45.2 20.4 61.2

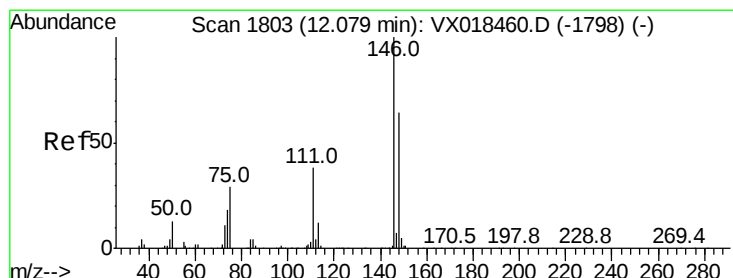
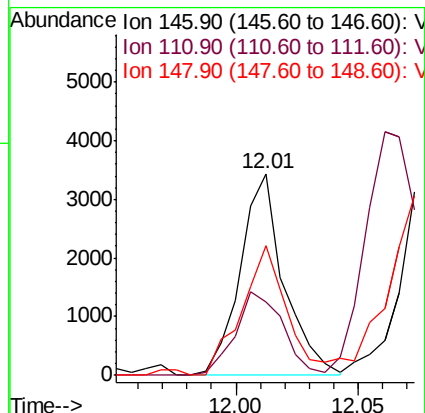
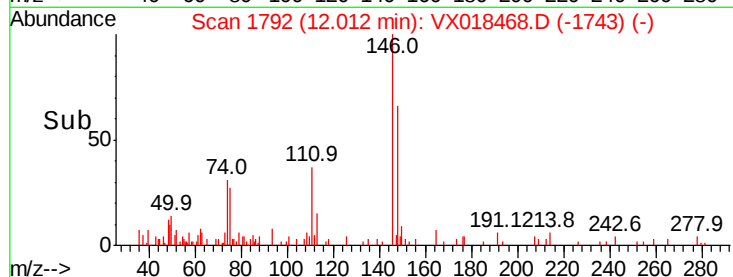
148 66.4 31.1 93.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.293 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. -0.07 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

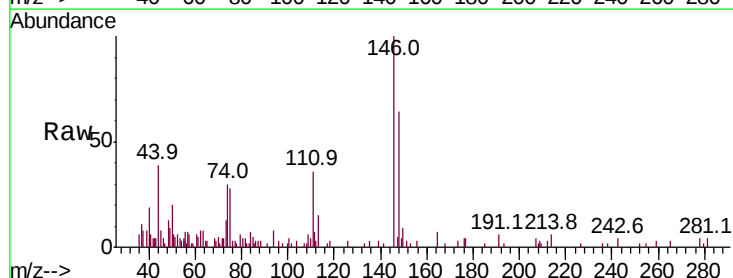
Tgt Ion:146 Resp: 4276

Ion Ratio Lower Upper

146 100

111 45.2 19.4 58.4

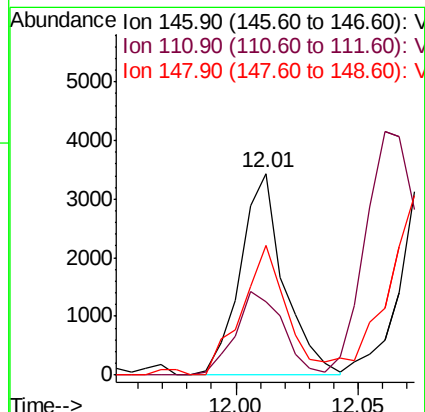
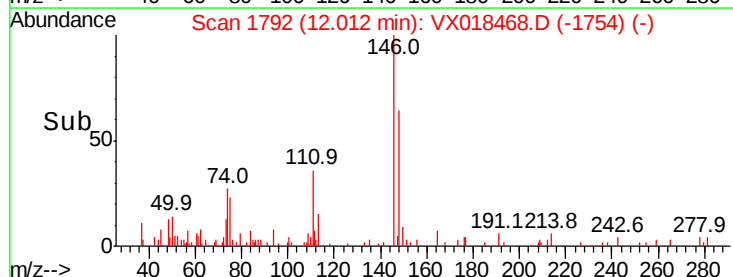
148 66.4 31.8 95.4

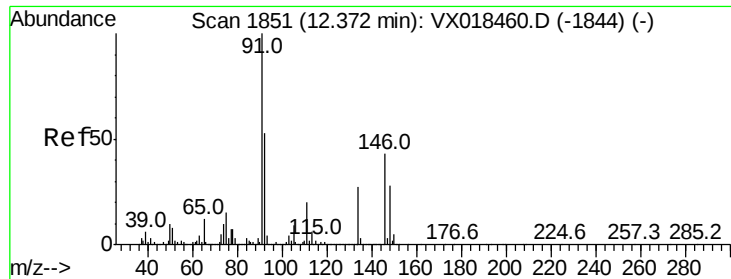


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 0.236 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

Instrument :

MSVOA_X

ClientSampleId :

MW-1

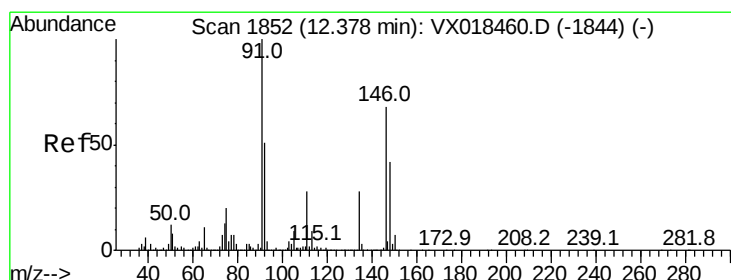
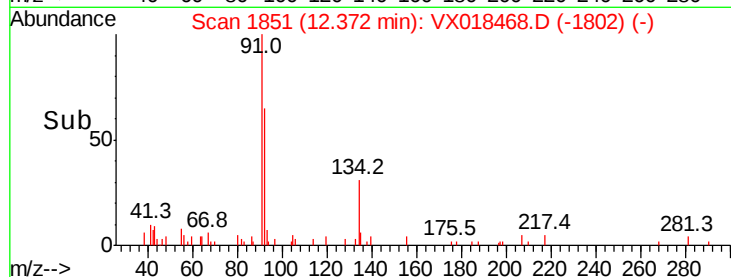
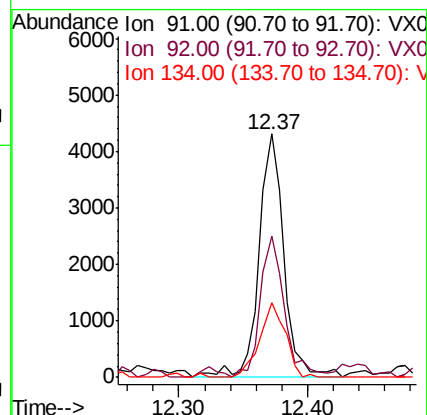
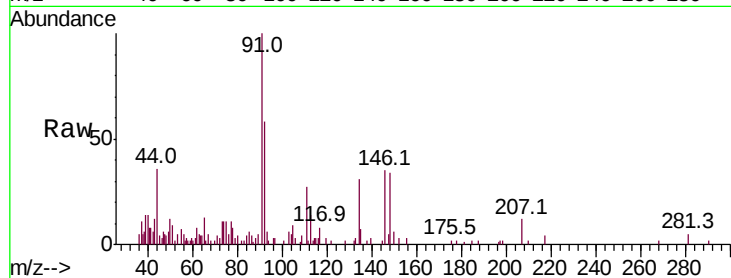
Tot Ion: 91 Resp: 5707

Ion Ratio Lower Upper

91 100

92 56.4 26.1 78.2

134 31.8 13.3 39.8



#91

1,2-Dichlorobenzene

Concen: 0.207 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX018468.D

Acq: 17 Sep 2020 16:01

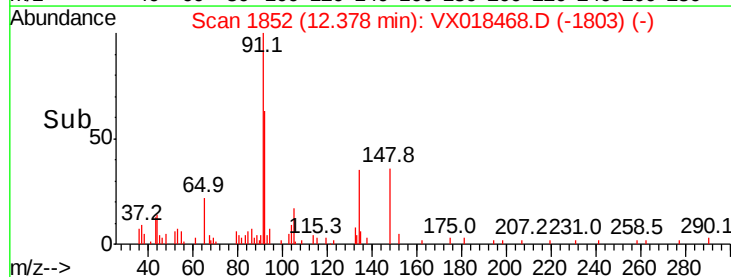
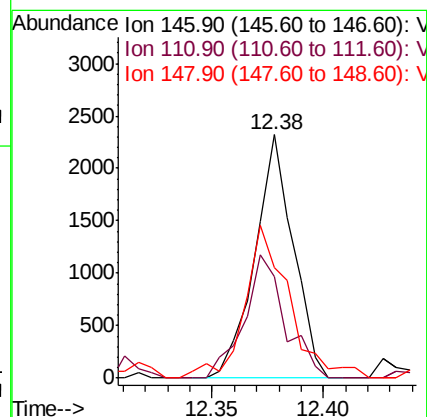
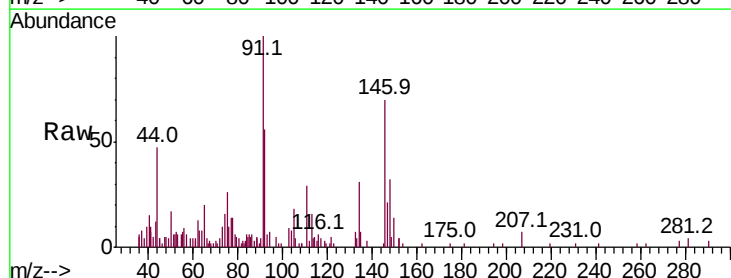
Tgt Ion: 146 Resp: 2785

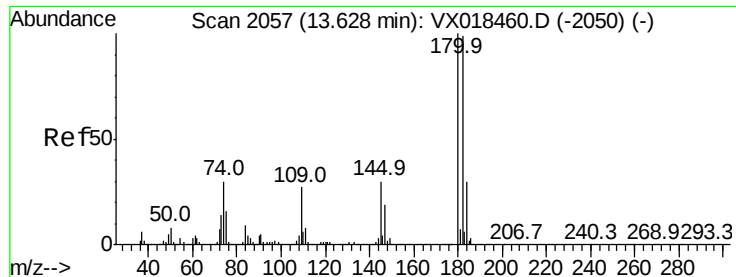
Ion Ratio Lower Upper

146 100

111 53.8 21.5 64.5

148 73.2 32.1 96.5

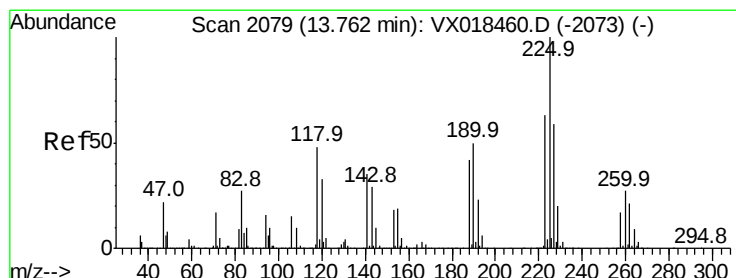
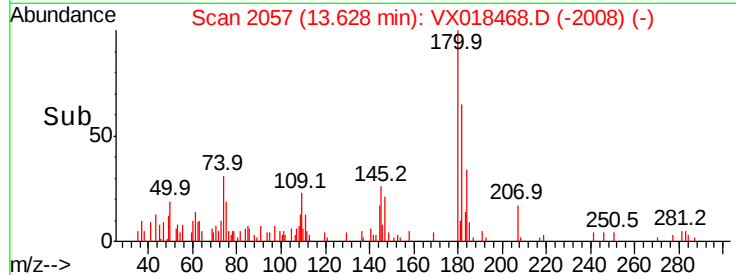
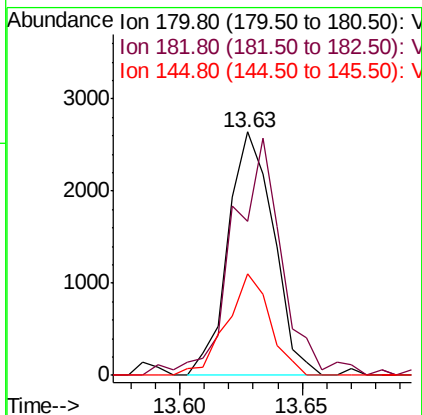
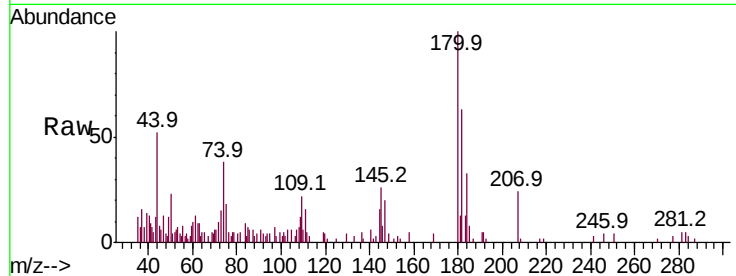




#93
 1,2,4-Trichlorobenzene
 Concen: 0.365 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018468.D
 Acq: 17 Sep 2020 16:01

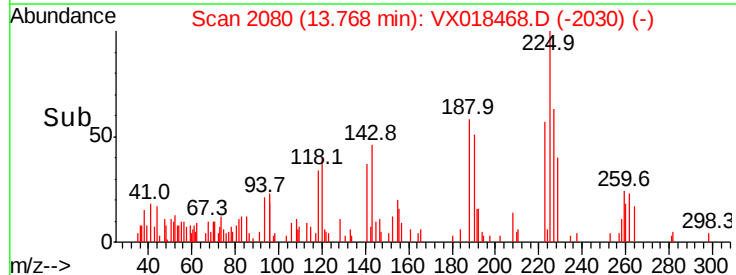
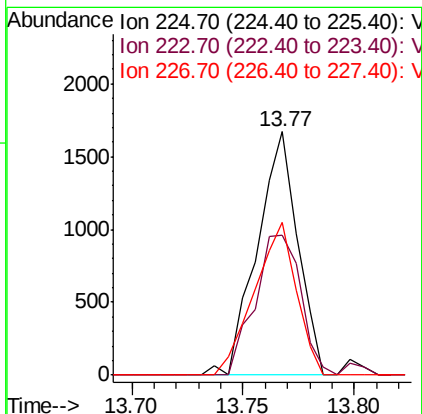
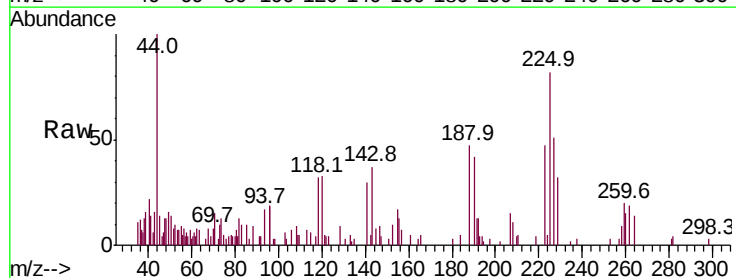
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

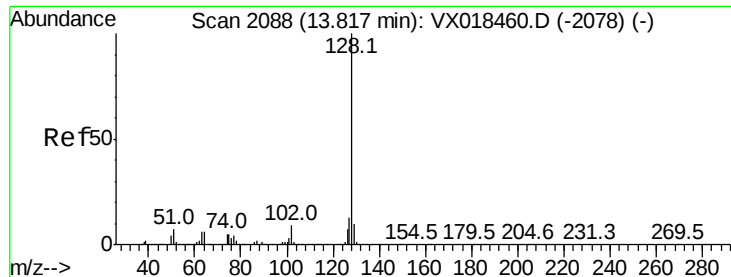
Tot Ion:180 Resp: 3428
 Ion Ratio Lower Upper
 180 100
 182 106.4 50.2 150.6
 145 39.8 15.7 47.1



#94
 Hexachlorobutadiene
 Concen: 0.537 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VX018468.D
 Acq: 17 Sep 2020 16:01

Tgt Ion:225 Resp: 2116
 Ion Ratio Lower Upper
 225 100
 223 64.7 32.0 96.2
 227 65.1 31.7 95.1

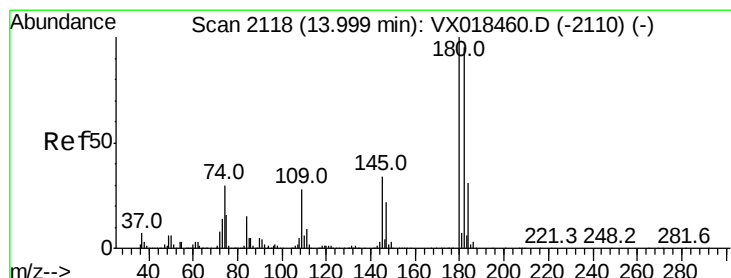
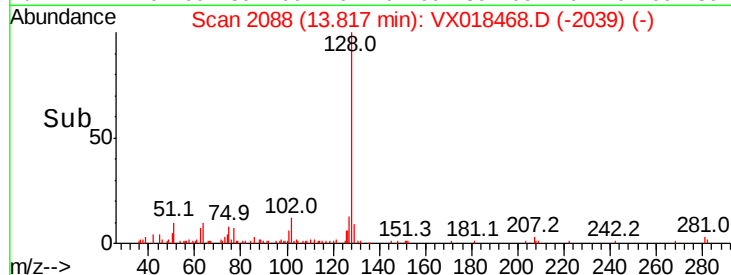
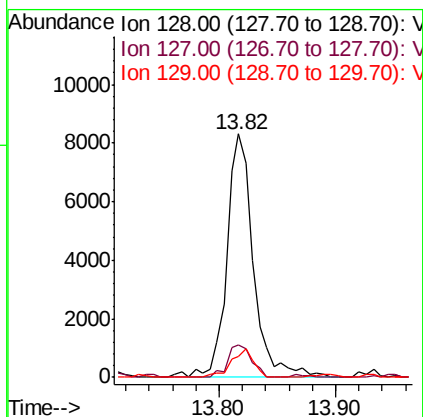
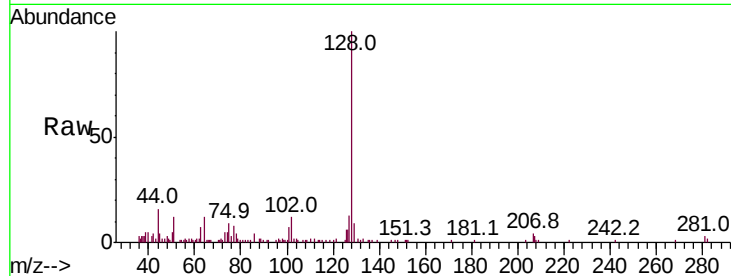




#95
Naphthalene
Concen: 0.464 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX018468.D
Acq: 17 Sep 2020 16:01

Instrument :
MSVOA_X
ClientSampled :
MW-1

Tot Ion:128 Resp: 13134
Ion Ratio Lower Upper
128 100
127 12.0 10.3 15.5
129 9.8 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.334 ug/l
RT: 14.01 min Scan# 2119
Delta R.T. 0.01 min
Lab File: VX018468.D
Acq: 17 Sep 2020 16:01

Tgt Ion:180 Resp: 2991
Ion Ratio Lower Upper
180 100
182 105.6 47.1 141.3
145 37.3 16.8 50.4

