

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092420\
 Data File : VX018578.D
 Acq On : 24 Sep 2020 17:24
 Operator : JC/SP
 Sample : L4118-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW201D1-20200919

Quant Time: Sep 25 01:08:27 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	446172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	714445	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	702691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	340880	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	325961	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
35) Dibromofluoromethane	5.47	113	250127	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
50) Toluene-d8	8.70	98	891798	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	11.12	95	328191	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	

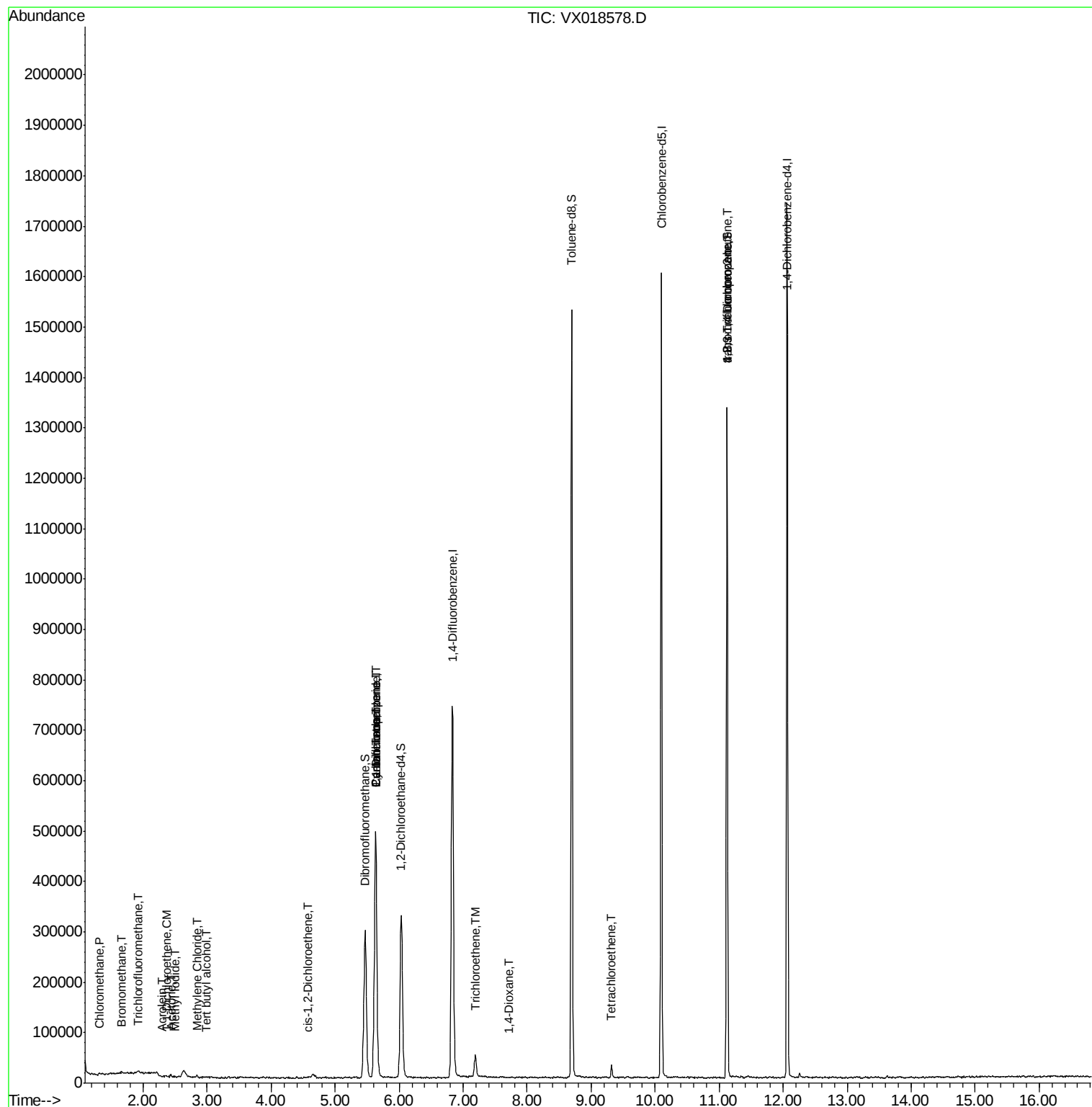
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	2067	0.417	ug/l	98
5) Bromomethane	1.65	94	693	0.215	ug/l #	30
7) Trichlorofluoromethane	1.92	101	2547	0.320	ug/l #	72
10) Methyl Iodide	2.50	142	161	4.942	ug/l #	80
11) Tert butyl alcohol	2.99	59	1110	1.011	ug/l #	93
12) 1,1-Dichloroethene	2.36	96	1183	0.274	ug/l #	61
13) Acrolein	2.29	56	284	0.408	ug/l #	1
16) Acetone	2.43	43	4522	1.873	ug/l #	70
20) Methylene Chloride	2.83	84	1935	0.363	ug/l #	76
27) cis-1,2-Dichloroethene	4.57	96	1228	0.218	ug/l	74
31) Cyclohexane	5.63	56	10312	1.350	ug/l #	35
36) 1,1-Dichloropropene	5.63	75	34061	4.912	ug/l #	53
38) Carbon Tetrachloride	5.63	117	46930	6.111	ug/l #	18
44) Trichloroethene	7.19	130	15582	2.709	ug/l	98
49) 1,4-Dioxane	7.71	88	93	0.941	ug/l #	1
64) Tetrachloroethene	9.32	164	4277	0.773	ug/l	94
76) 1,2,3-Trichloropropane	11.12	75	174150	24.311	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	174150	62.297	ug/l #	12

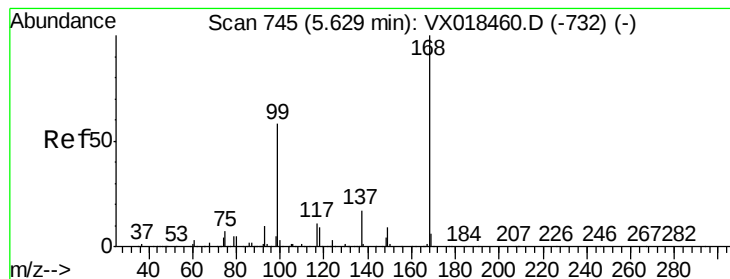
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018578.D

Acq: 24 Sep 2020 17:24

Instrument :

MSVOA_X

ClientSampleId :

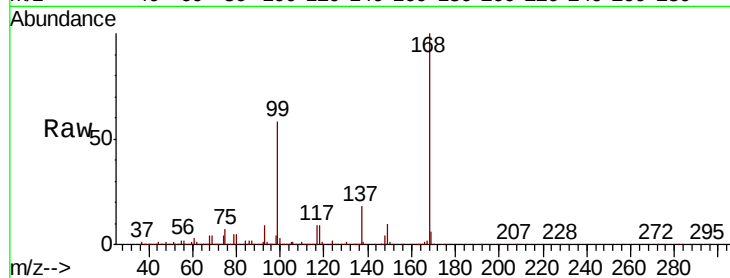
MW201D1-20200919

Tot Ion:168 Resp: 446172

Ion Ratio Lower Upper

168 100

99 58.1 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

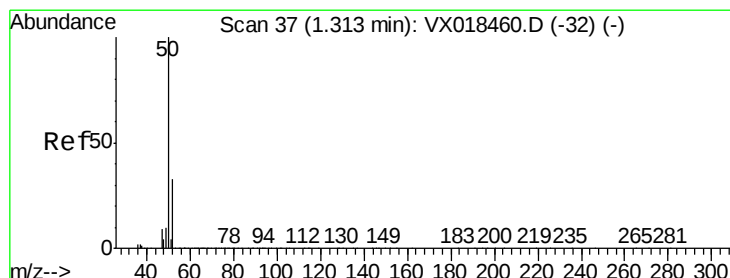
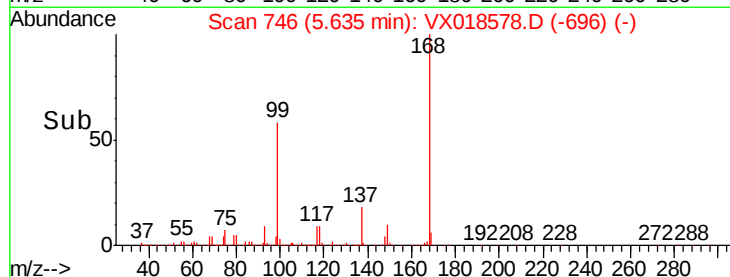
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.417 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018578.D

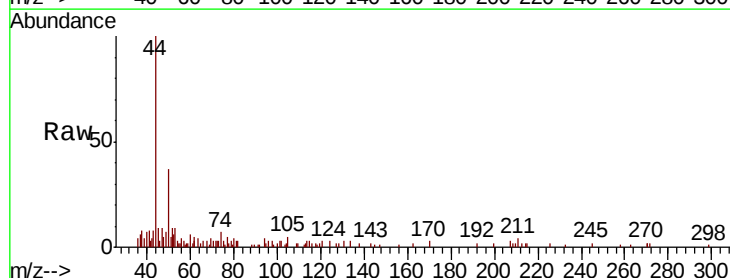
Acq: 24 Sep 2020 17:24

Tgt Ion: 50 Resp: 2067

Ion Ratio Lower Upper

50 100

52 34.2 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

1500

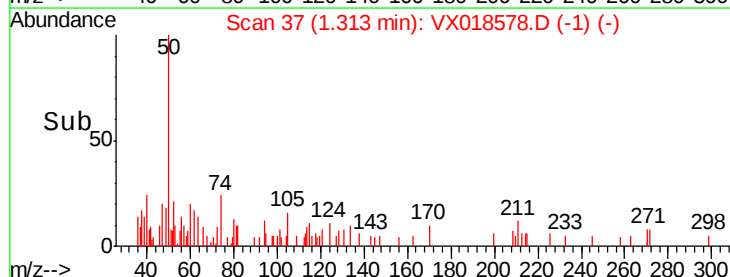
1000

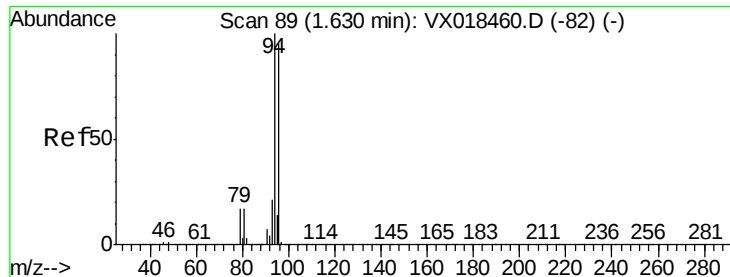
500

0

Time-->

1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.215 ug/l

RT: 1.65 min Scan# 93

Delta R.T. 0.02 min

Lab File: VX018578.D

Acq: 24 Sep 2020 17:24

Instrument :

MSVOA_X

ClientSampleId :

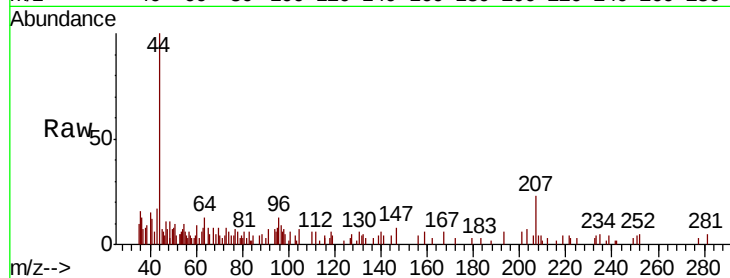
MW201D1-20200919

Tot Ion: 94 Resp: 693

Ion Ratio Lower Upper

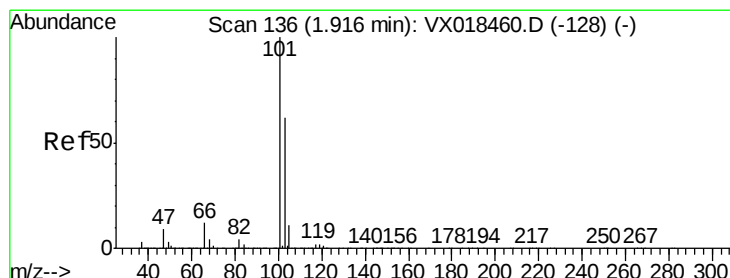
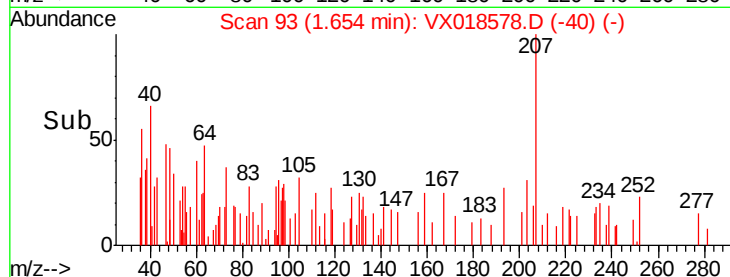
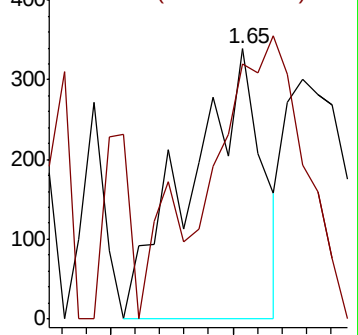
94 100

96 26.3 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#7

Trichlorofluoromethane

Concen: 0.320 ug/l

RT: 1.92 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX018578.D

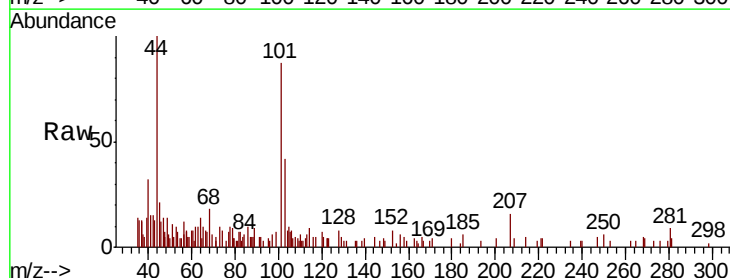
Acq: 24 Sep 2020 17:24

Tgt Ion: 101 Resp: 2547

Ion Ratio Lower Upper

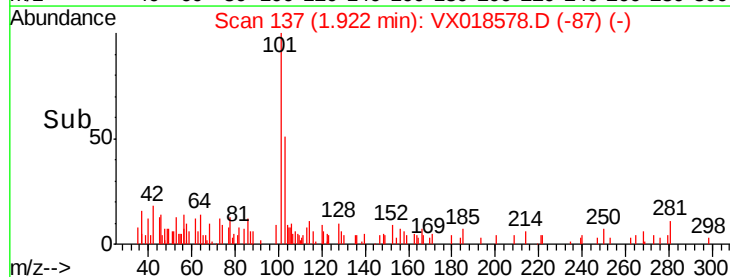
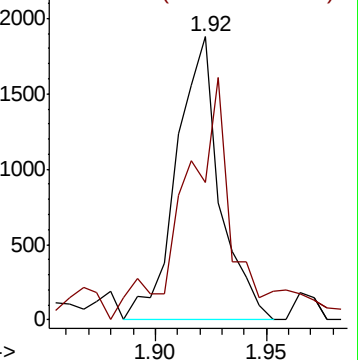
101 100

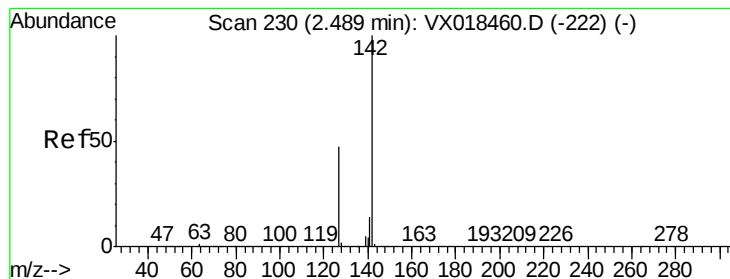
103 40.6 49.6 74.4#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#10

Methyl Iodide

Concen: 4.942 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX018578.D

Acq: 24 Sep 2020 17:24

Instrument :

MSVOA_X

ClientSampleId :

MW201D1-20200919

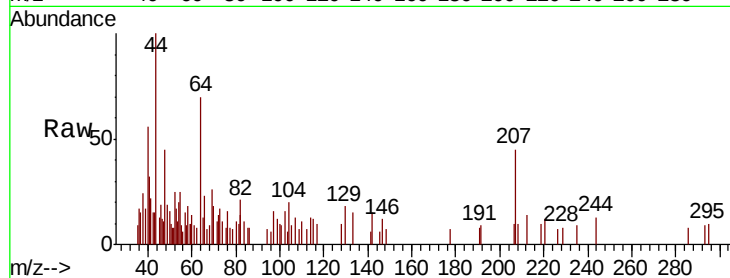
Tot Ion:142 Resp: 161

Ion Ratio Lower Upper

142 100

127 35.4 36.0 54.0#

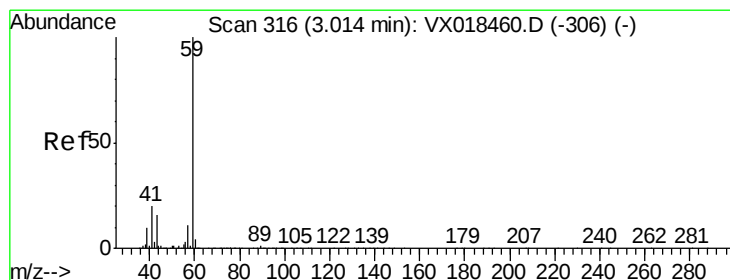
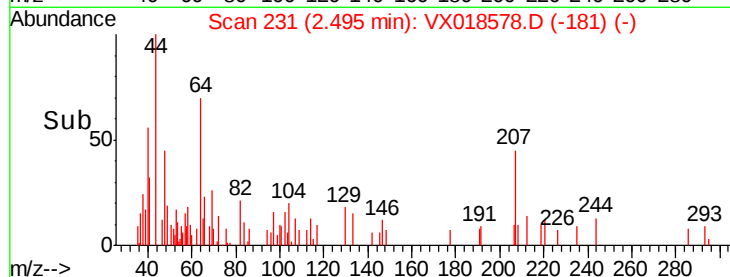
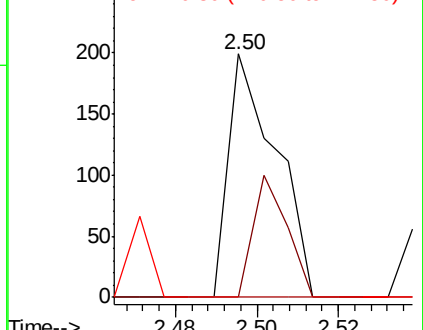
141 0.0 11.9 17.9#



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: 1.011 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX018578.D

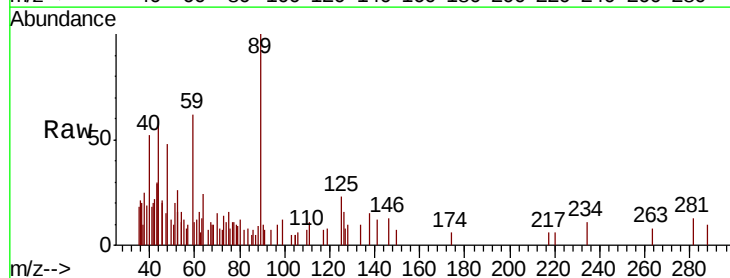
Acq: 24 Sep 2020 17:24

Tgt Ion: 59 Resp: 1110

Ion Ratio Lower Upper

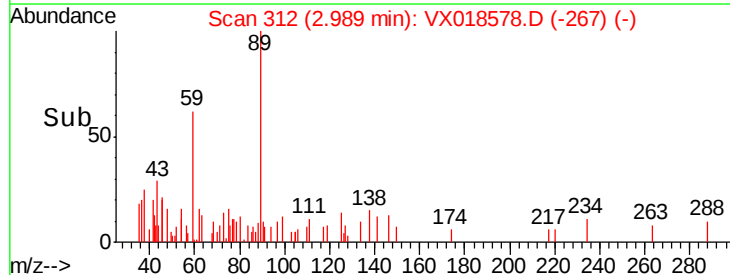
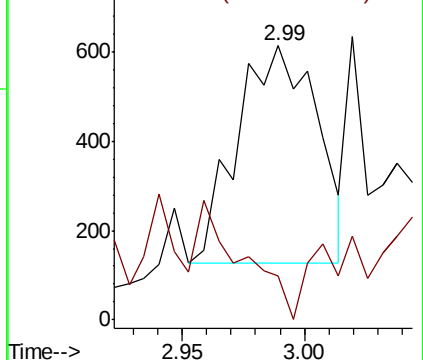
59 100

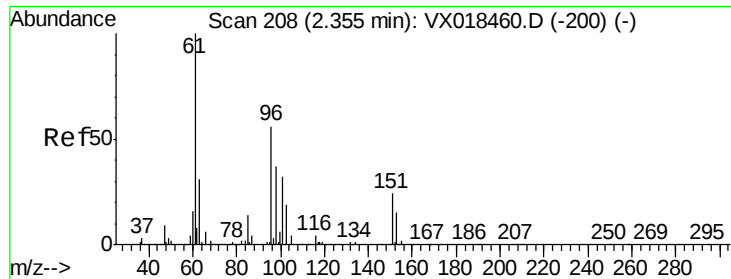
57 13.1 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.274 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX018578.D

Acq: 24 Sep 2020 17:24

Instrument :

MSVOA_X

ClientSampleId :

MW201D1-20200919

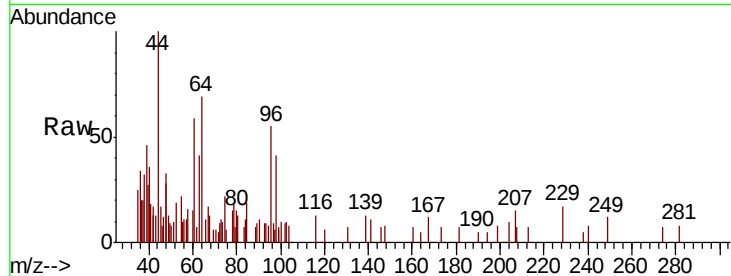
Tot Ion: 96 Resp: 1183

Ion Ratio Lower Upper

96 100

61 108.3 142.2 213.4#

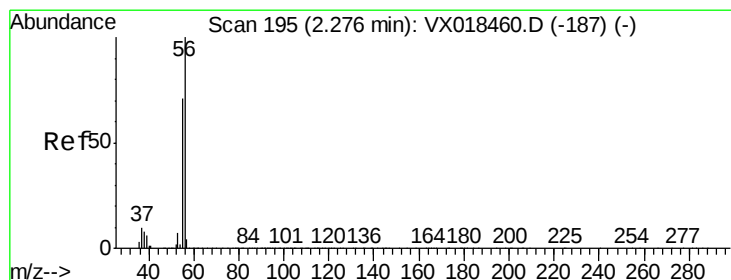
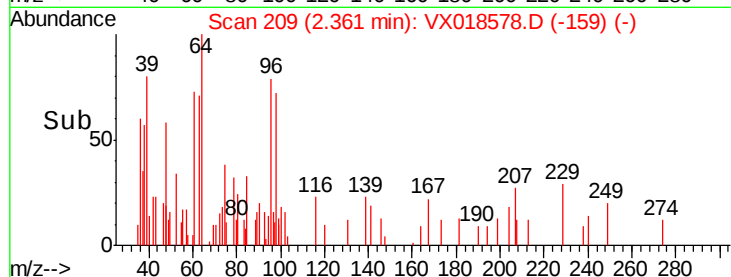
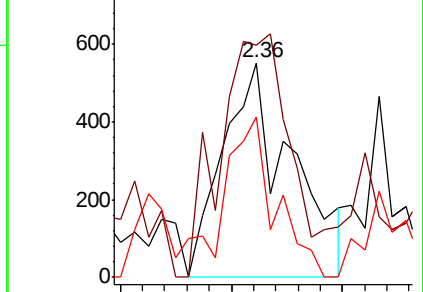
98 74.8 52.4 78.6



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



#13

Acrolein

Concen: 0.408 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.01 min

Lab File: VX018578.D

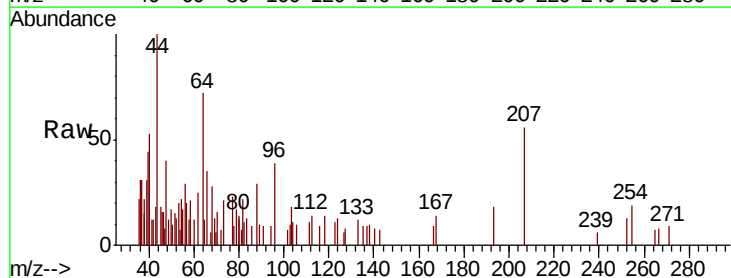
Acq: 24 Sep 2020 17:24

Tgt Ion: 56 Resp: 284

Ion Ratio Lower Upper

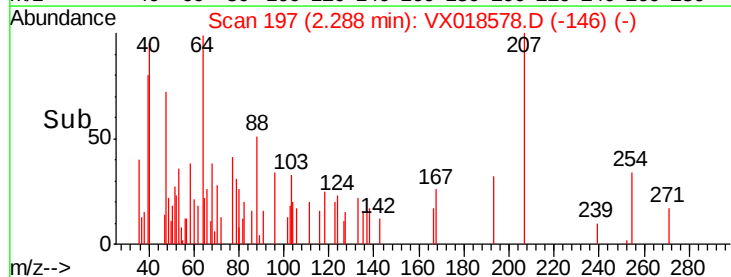
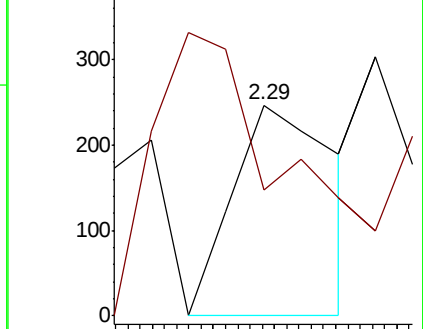
56 100

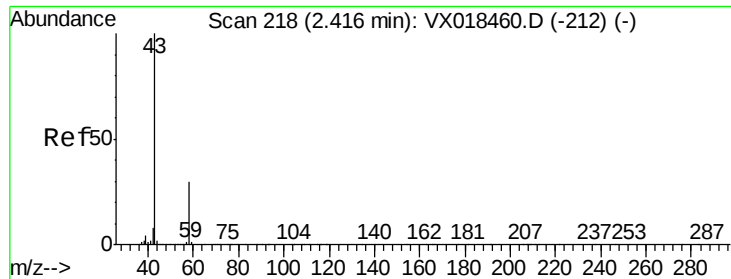
55 184.2 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

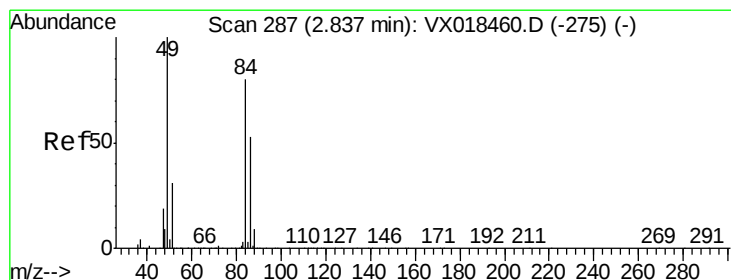
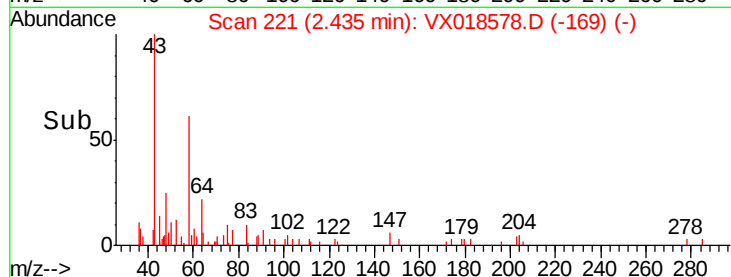
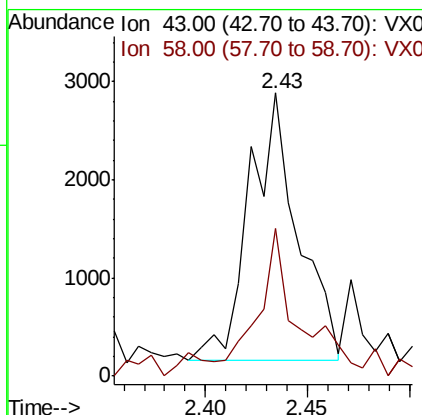
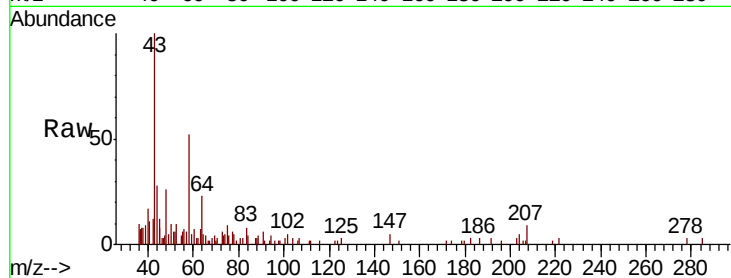




#16
Acetone
Concen: 1.873 ug/l
RT: 2.43 min Scan# 221
Delta R.T. 0.02 min
Lab File: VX018578.D
Acq: 24 Sep 2020 17:24

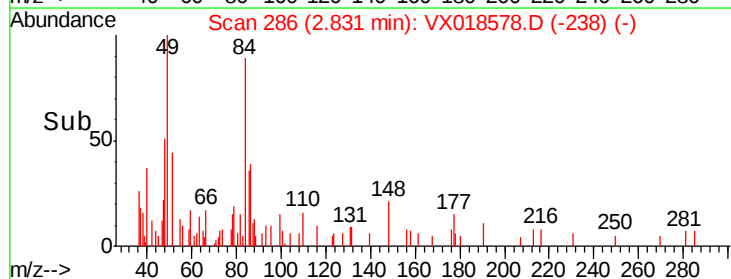
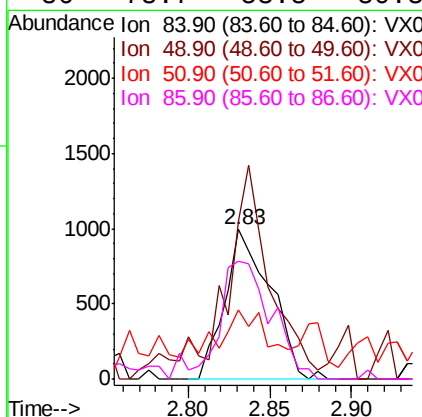
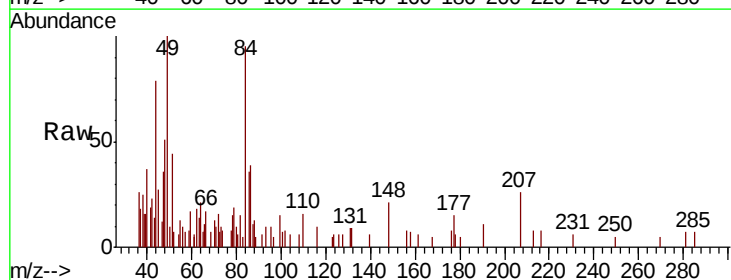
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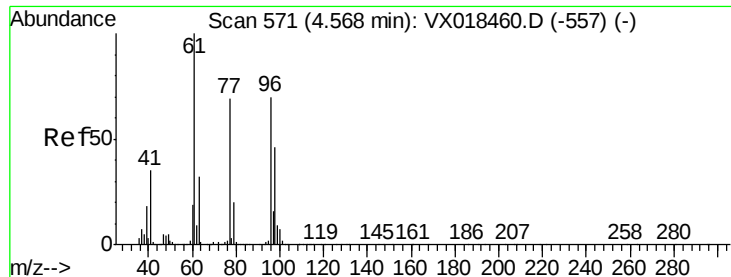
Tot Ion: 43 Resp: 4522
Ion Ratio Lower Upper
43 100
58 46.2 24.0 36.0#



#20
Methylene Chloride
Concen: 0.363 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX018578.D
Acq: 24 Sep 2020 17:24

Tgt Ion: 84 Resp: 1935
Ion Ratio Lower Upper
84 100
49 84.1 100.6 151.0#
51 38.1 30.9 46.3
86 78.7 53.5 80.3



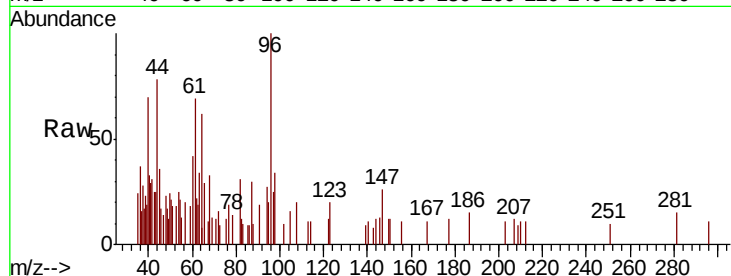


#27

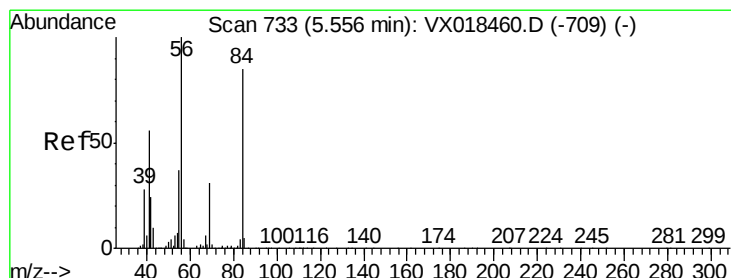
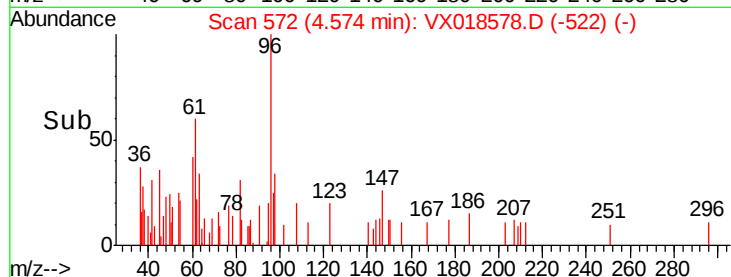
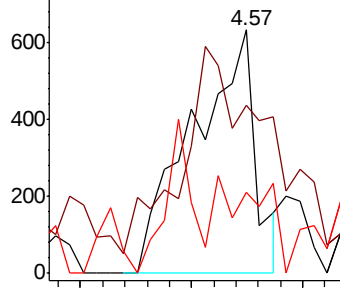
cis-1,2-Dichloroethene
 Concen: 0.218 ug/l
 RT: 4.57 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VX018578.D
 Acq: 24 Sep 2020 17:24

Instrument :
 MSVOA_X
 ClientSampleId :
 MW201D1-20200919

Tot Ion	Ratio	Lower	Upper
96	100		
61	126.8	0.0	300.0
98	30.4	0.0	130.4



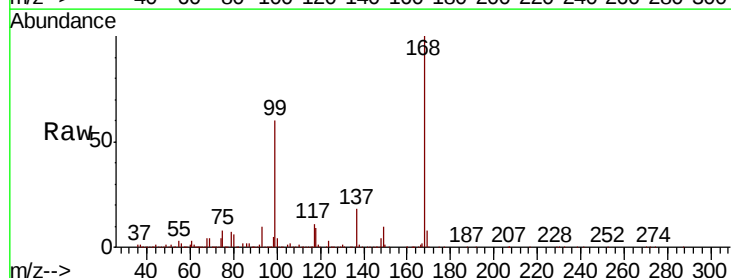
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



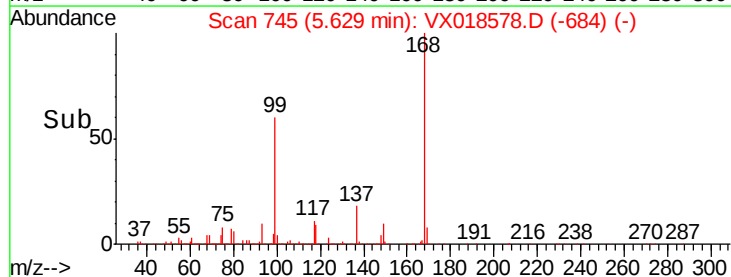
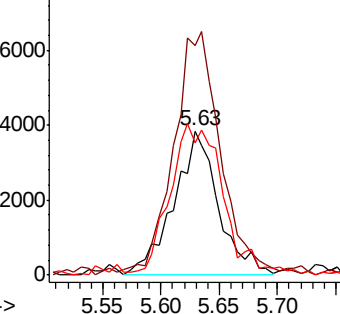
#31

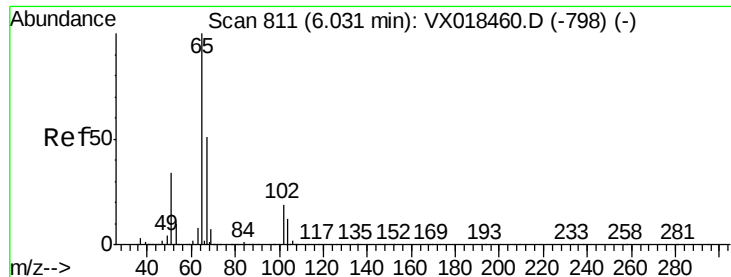
Cyclohexane
 Concen: 1.350 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. 0.07 min
 Lab File: VX018578.D
 Acq: 24 Sep 2020 17:24

Tgt Ion	Ratio	Lower	Upper
56	100		
69	155.5	24.8	37.2#
84	90.1	67.6	101.4



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.643 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018578.D

Acq: 24 Sep 2020 17:24

Instrument :

MSVOA_X

ClientSampleId :

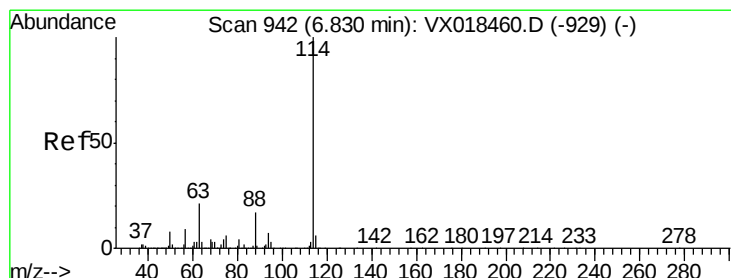
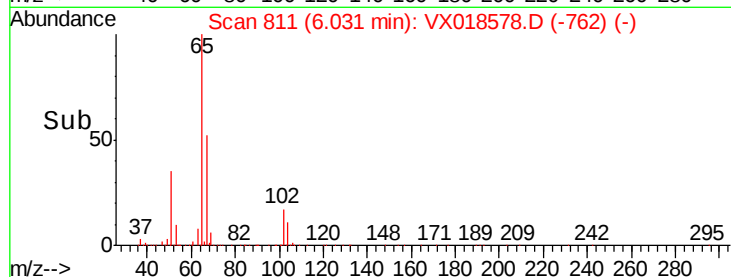
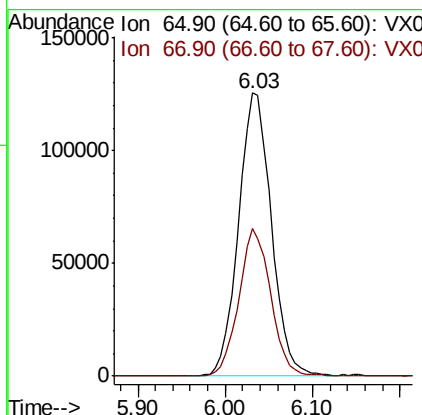
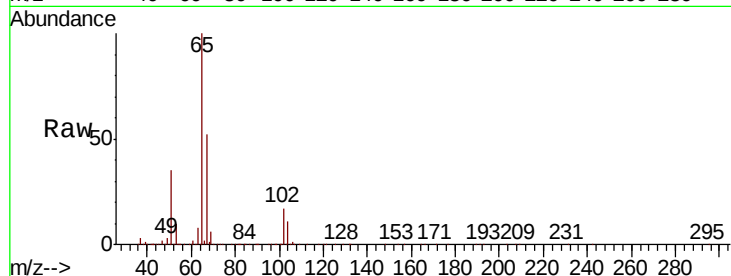
MW201D1-20200919

Tot Ion: 65 Resp: 325961

Ion Ratio Lower Upper

65 100

67 50.9 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: VX018578.D

Acq: 24 Sep 2020 17:24

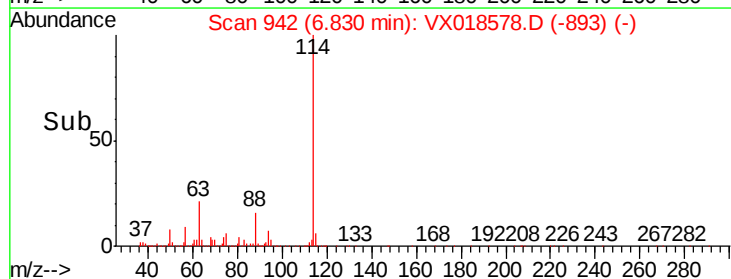
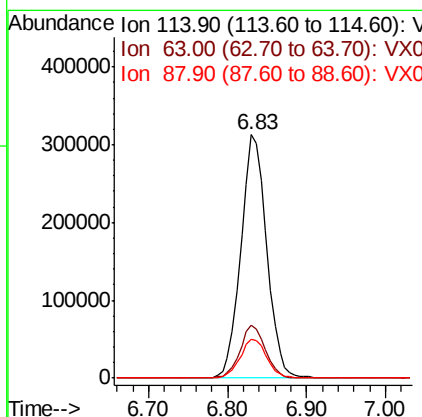
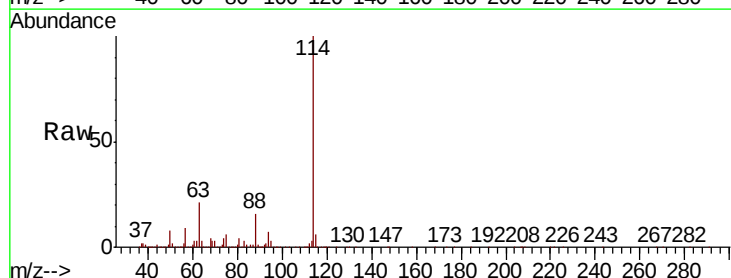
Tgt Ion: 114 Resp: 714445

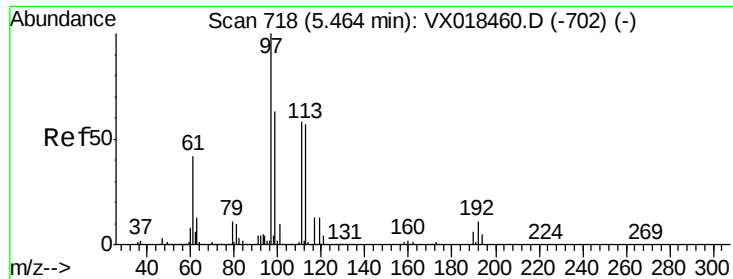
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.8

88 15.9 0.0 33.6

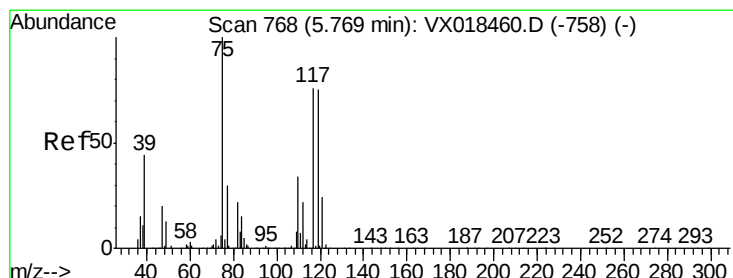
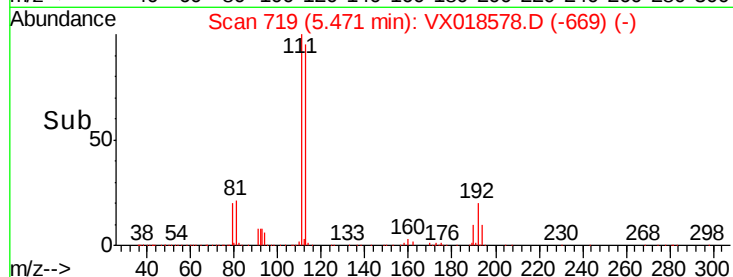
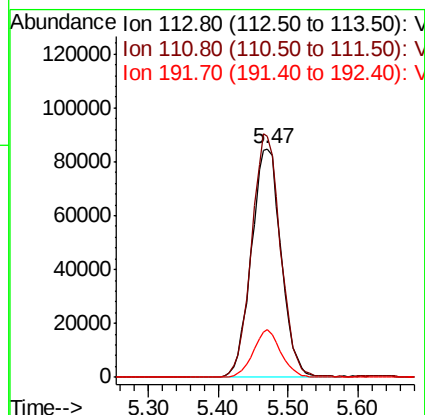
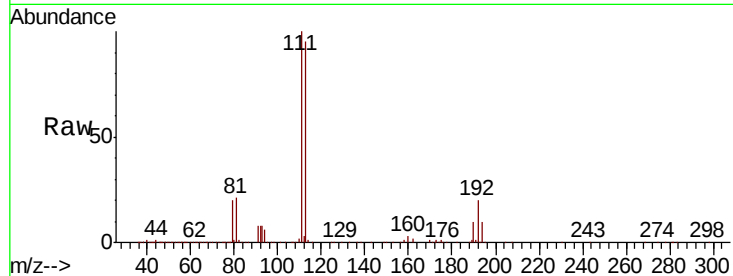




#35
 Dibromofluoromethane
 Concen: 50.643 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX018578.D
 Acq: 24 Sep 2020 17:24

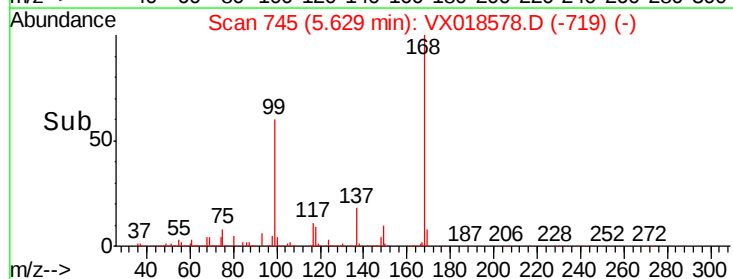
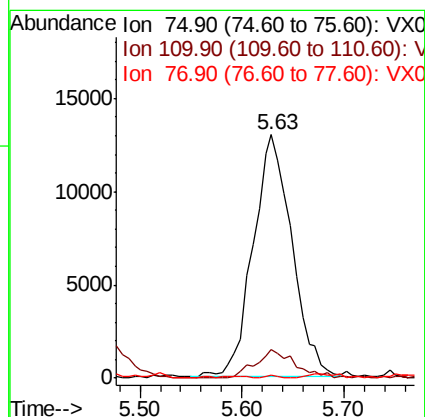
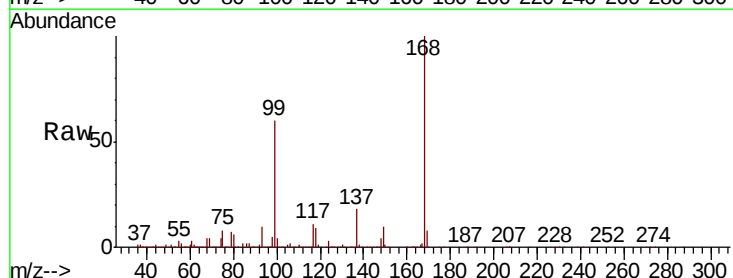
Instrument :
 MSVOA_X
 ClientSampleId :
 MW201D1-20200919

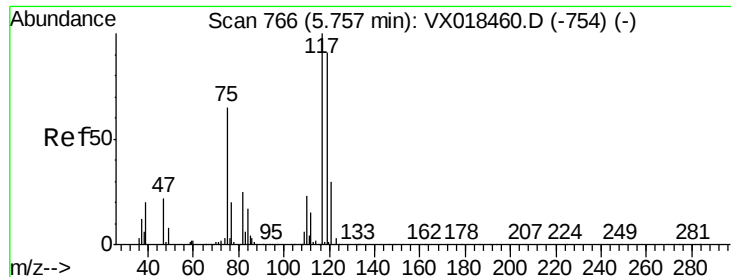
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.4	122.2
192	19.5	16.6	24.8



#36
 1,1-Dichloropropene
 Concen: 4.912 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018578.D
 Acq: 24 Sep 2020 17:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.3	17.6	52.8#
77	0.4	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 6.111 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX018578.D

Acq: 24 Sep 2020 17:24

Instrument :

MSVOA_X

ClientSampleId :

MW201D1-20200919

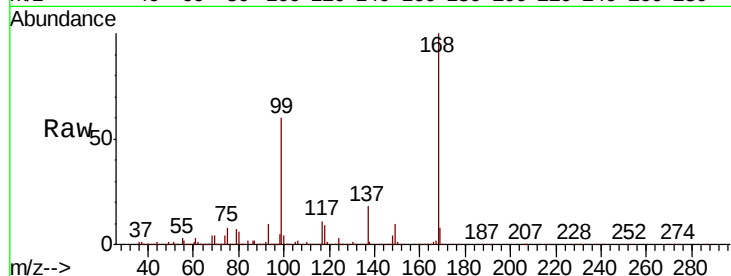
Tot Ion:117 Resp: 46930

Ion Ratio Lower Upper

117 100

119 4.4 72.3 108.5#

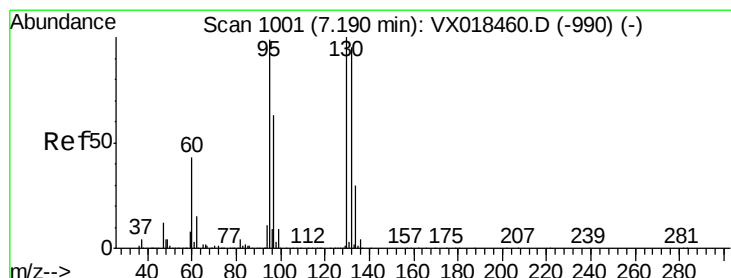
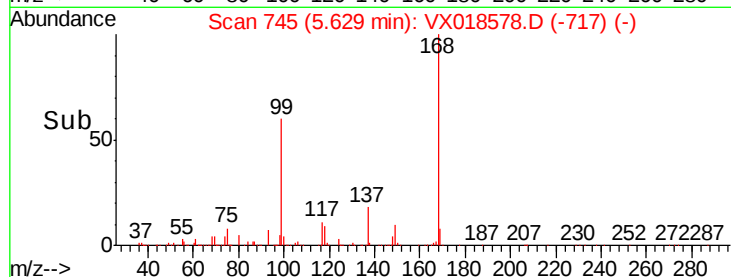
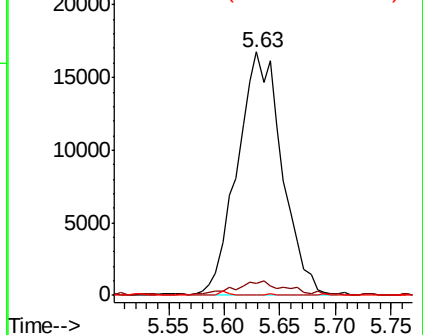
121 0.0 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 2.709 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX018578.D

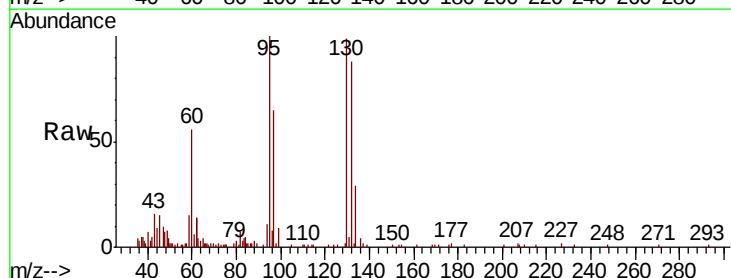
Acq: 24 Sep 2020 17:24

Tgt Ion:130 Resp: 15582

Ion Ratio Lower Upper

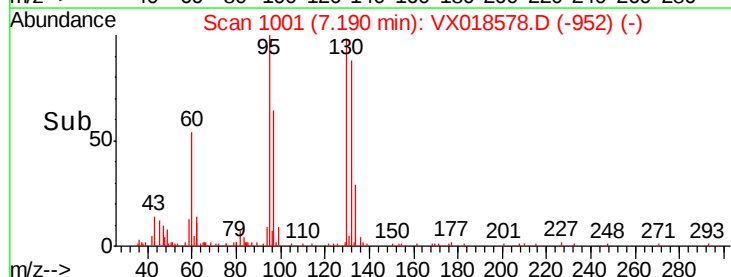
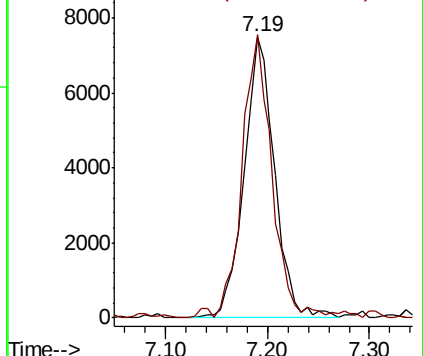
130 100

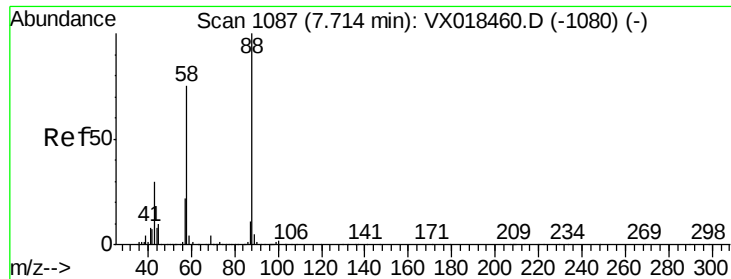
95 100.7 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.941 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX018578.D

Acq: 24 Sep 2020 17:24

Instrument :

MSVOA_X

ClientSampleId :

MW201D1-20200919

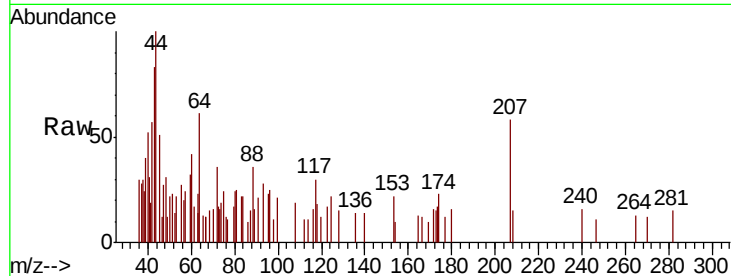
Tot Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

43 211.8 29.9 44.9#

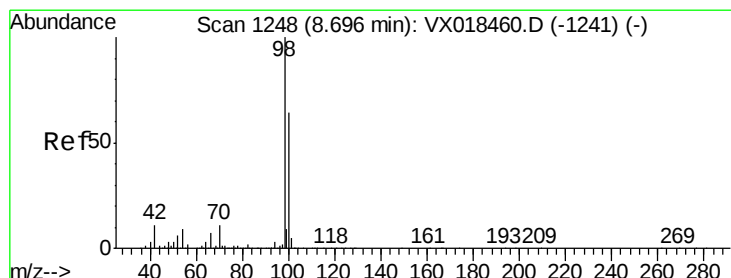
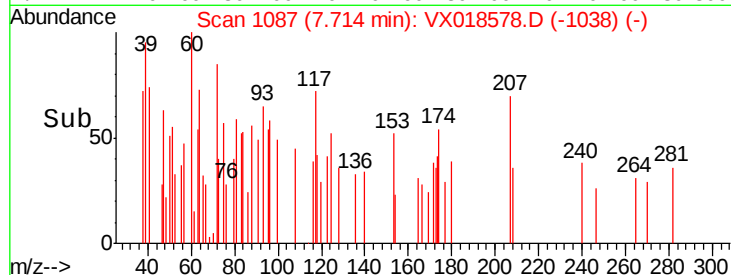
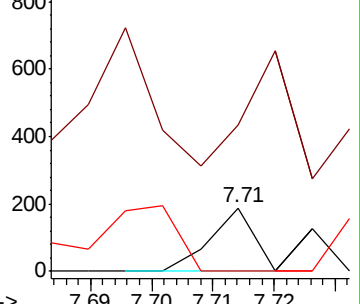
58 147.3 59.0 88.6#



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: 49.695 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018578.D

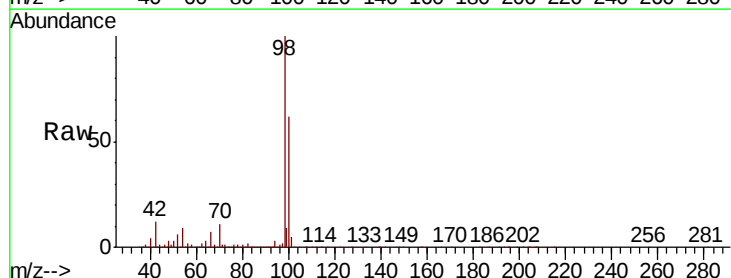
Acq: 24 Sep 2020 17:24

Tgt Ion: 98 Resp: 891798

Ion Ratio Lower Upper

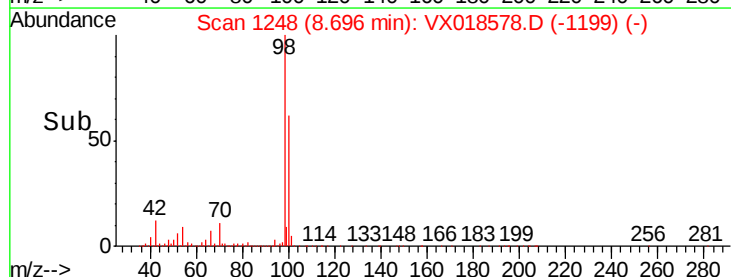
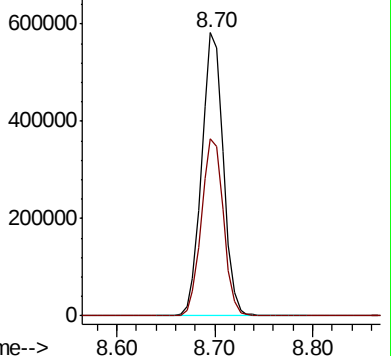
98 100

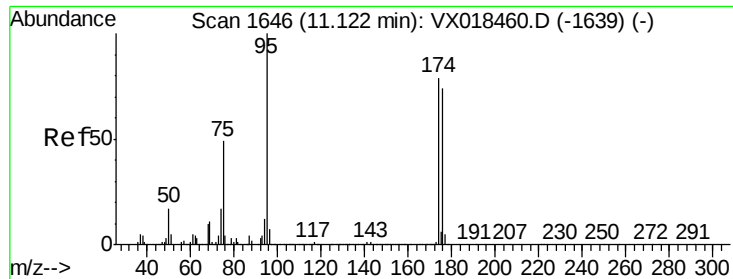
100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

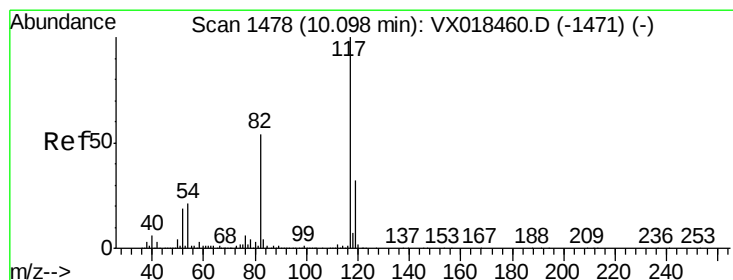
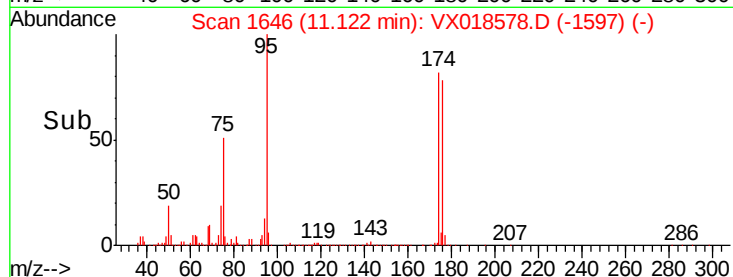
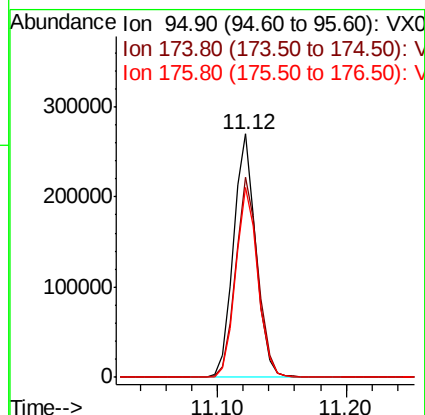
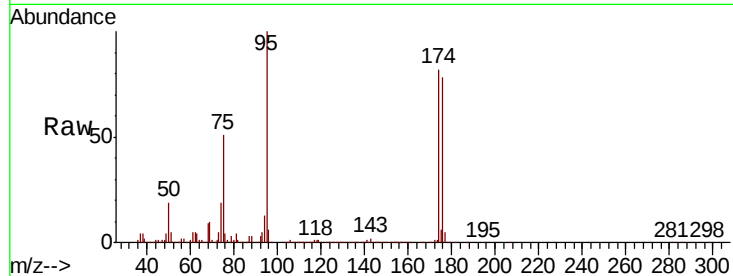




#62
4-Bromofluorobenzene
Concen: 45.977 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018578.D
Acq: 24 Sep 2020 17:24

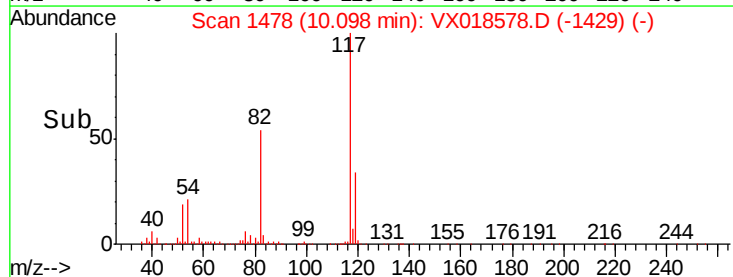
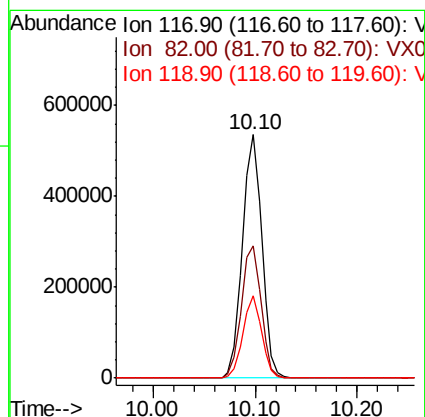
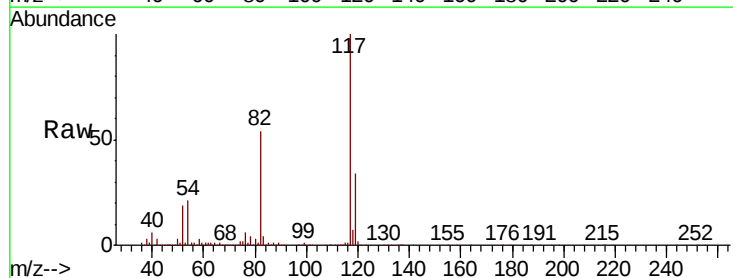
Instrument :
MSVOA_X
ClientSampleId :
MW201D1-20200919

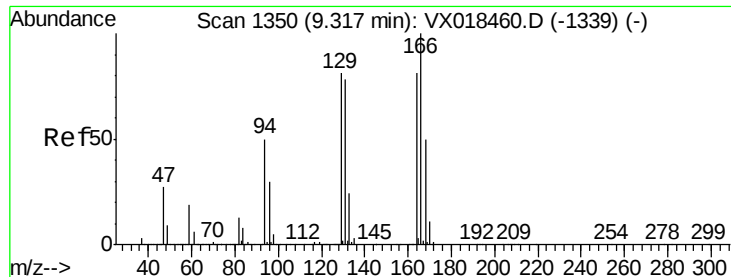
Tot Ion	Ratio	Lower	Upper
95	100		
174	82.2	0.0	161.4
176	77.1	0.0	151.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018578.D
Acq: 24 Sep 2020 17:24

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.3	64.9
119	33.7	25.9	38.9





#64

Tetrachloroethene

Concen: 0.773 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX018578.D

Acq: 24 Sep 2020 17:24

Instrument :

MSVOA_X

ClientSampleId :

MW201D1-20200919

Tot Ion:164 Resp: 4277

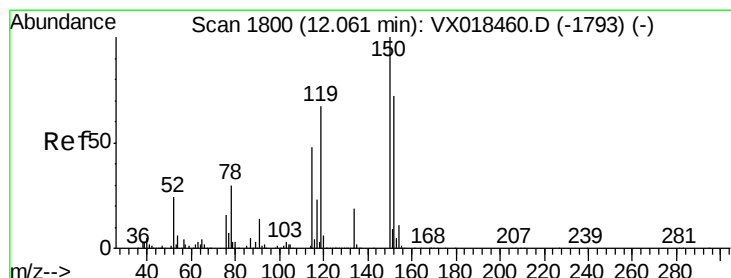
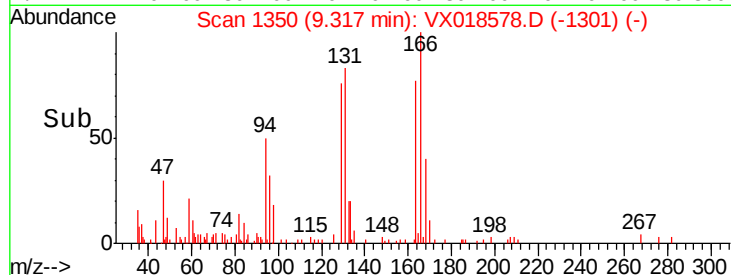
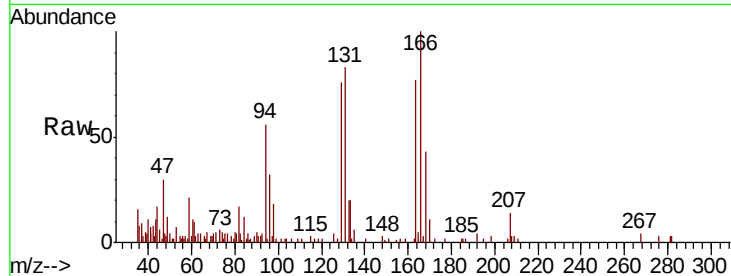
Ion Ratio Lower Upper

164 100

166 128.0 99.3 148.9

129 98.7 80.7 121.1

131 108.5 77.2 115.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018578.D

Acq: 24 Sep 2020 17:24

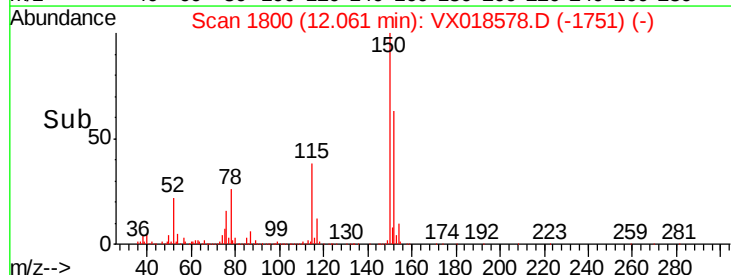
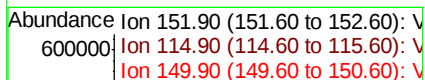
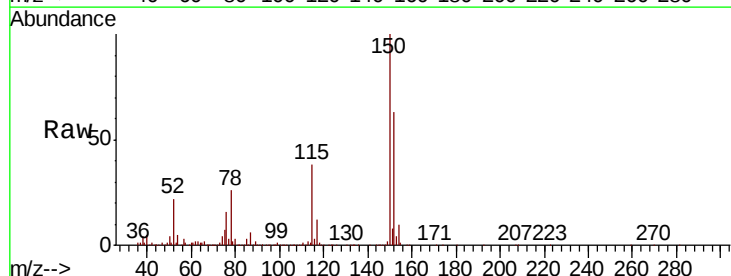
Tgt Ion:152 Resp: 340880

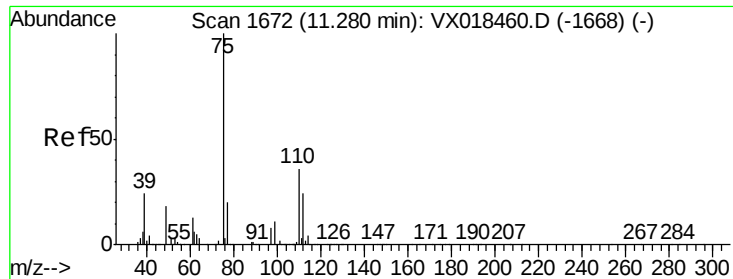
Ion Ratio Lower Upper

152 100

115 61.3 41.8 125.4

150 158.1 0.0 342.4

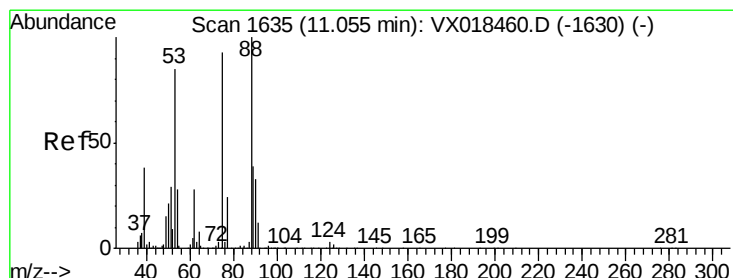
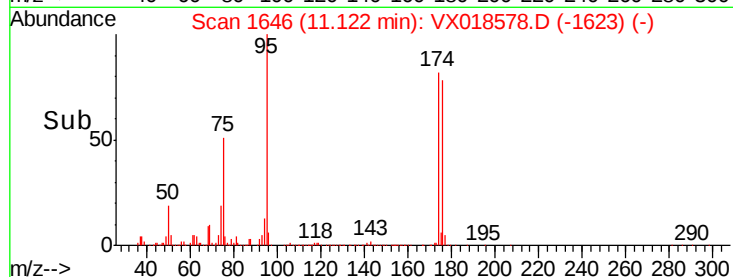
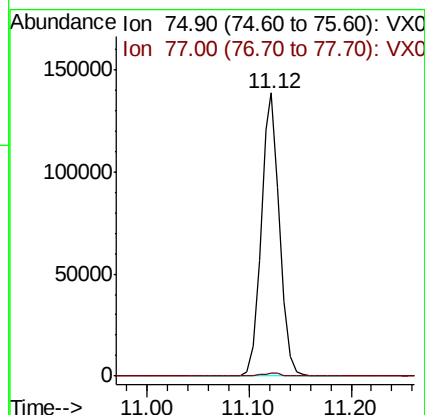
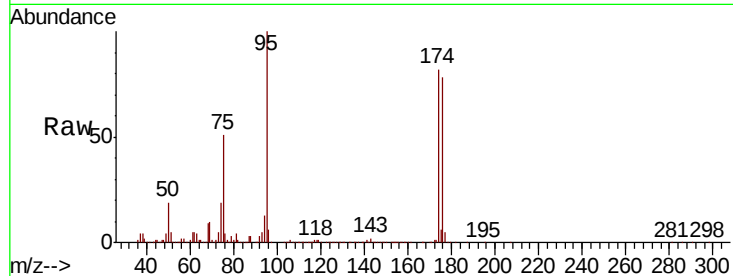




#76
 1,2,3-Trichloropropane
 Concen: 24.311 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX018578.D
 Acq: 24 Sep 2020 17:24

Instrument :
 MSVOA_X
 ClientSampleId :
 MW201D1-20200919

Tot Ion: 75 Resp: 174150
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.297 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX018578.D
 Acq: 24 Sep 2020 17:24

Tgt Ion: 75 Resp: 174150
 Ion Ratio Lower Upper
 75 100
 53 0.3 74.6 111.8#
 89 0.0 36.2 54.4#

