

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101220\
 Data File : VX018906.D
 Acq On : 12 Oct 2020 16:22
 Operator : JC/SP
 Sample : L4303-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-MW03S-20201004

Quant Time: Oct 13 04:08:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 06:09:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	247328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	389397	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	390567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	204339	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	193143	52.95	ug/l	0.00
Spiked Amount			Recovery	=	105.90%	
35) Dibromofluoromethane	5.47	113	145874	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
50) Toluene-d8	8.70	98	490500	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.12	95	182256	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	

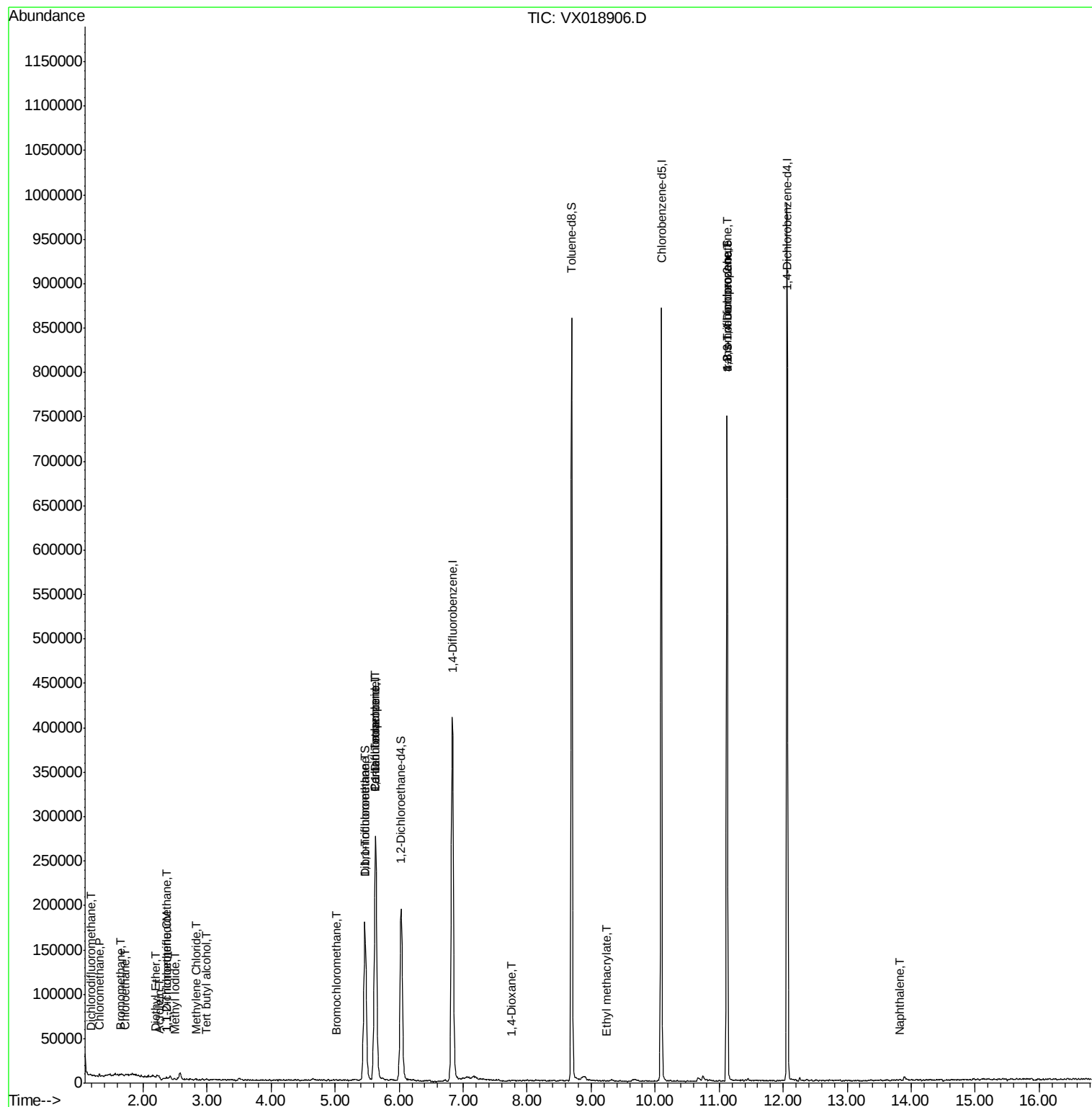
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	64	1.640	ug/l #	43
3) Chloromethane	1.31	50	1594	0.688	ug/l	92
5) Bromomethane	1.65	94	725	0.502	ug/l #	46
6) Chloroethane	1.73	64	354	0.204	ug/l #	85
8) Diethyl Ether	2.18	74	123	1.115	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.36	101	767	0.313	ug/l #	85
10) Methyl Iodide	2.50	142	241	4.077	ug/l #	92
11) Tert butyl alcohol	3.00	59	590	1.027	ug/l #	79
12) 1,1-Dichloroethene	2.37	96	62	0.732	ug/l #	1
13) Acrolein	2.26	56	116	0.243	ug/l #	30
16) Acetone	2.42	43	3857	Below Cal	#	80
20) Methylene Chloride	2.84	84	369	0.644	ug/l #	46
28) Bromochloromethane	5.02	49	202	1.611	ug/l #	8
32) 1,1,1-Trichloroethane	5.46	97	4126	0.791	ug/l #	50
36) 1,1-Dichloropropene	5.64	75	20226	4.940	ug/l #	52
38) Carbon Tetrachloride	5.63	117	26051	5.134	ug/l #	17
49) 1,4-Dioxane	7.75	88	49	1.048	ug/l #	1
56) Ethyl methacrylate	9.25	69	28	2.940	ug/l #	1
64) Tetrachloroethene	9.33	164	370	Below Cal	#	18
76) 1,2,3-Trichloropropane	11.12	75	94325	21.424	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	94325	60.713	ug/l #	7
95) Naphthalene	13.81	128	331	3.099	ug/l #	70

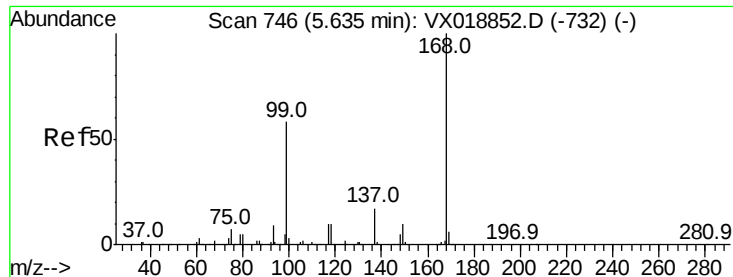
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

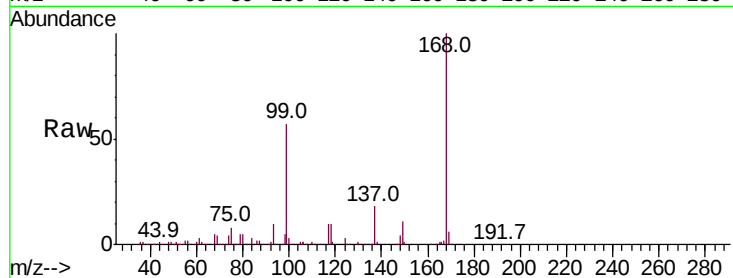
FT-MW03S-20201004

Tot Ion:168 Resp: 247328

Ion Ratio Lower Upper

168 100

99 57.4 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

60000

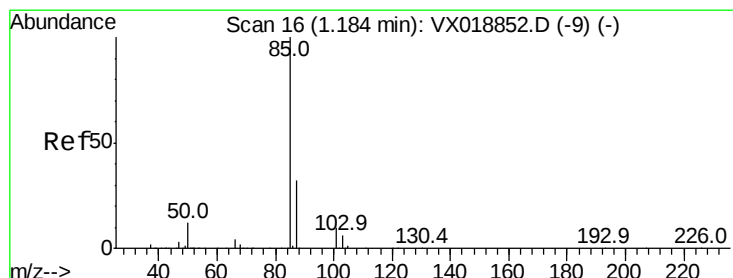
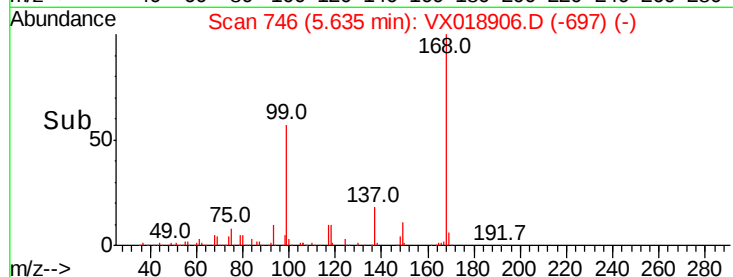
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 1.640 ug/l

RT: 1.20 min Scan# 18

Delta R.T. 0.01 min

Lab File: VX018906.D

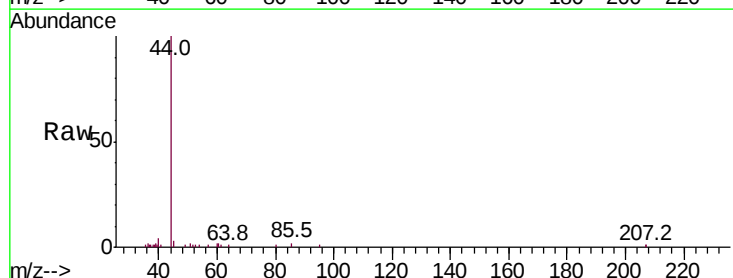
Acq: 12 Oct 2020 16:22

Tgt Ion: 85 Resp: 64

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

120

100

80

60

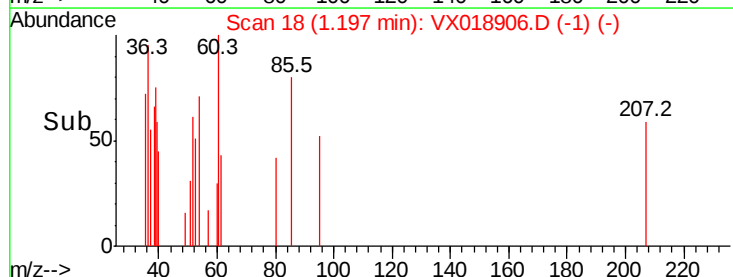
40

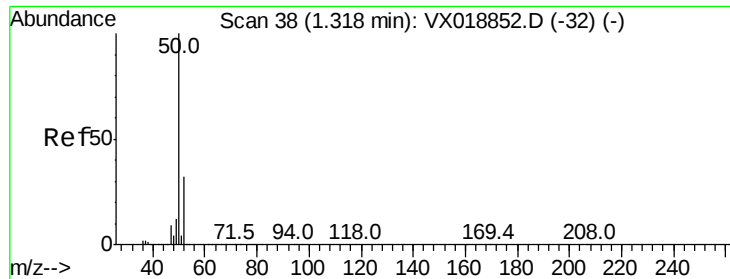
20

0

1.18 1.20 1.22

Time-->





#3

Chloromethane

Concen: 0.688 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.01 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

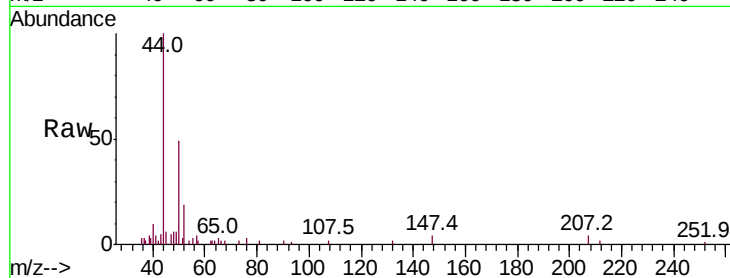
FT-MW03S-20201004

Tot Ion: 50 Resp: 1594

Ion Ratio Lower Upper

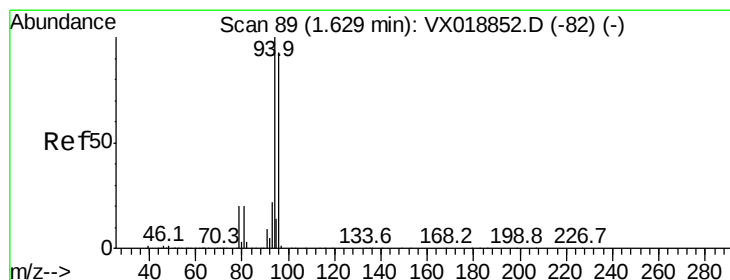
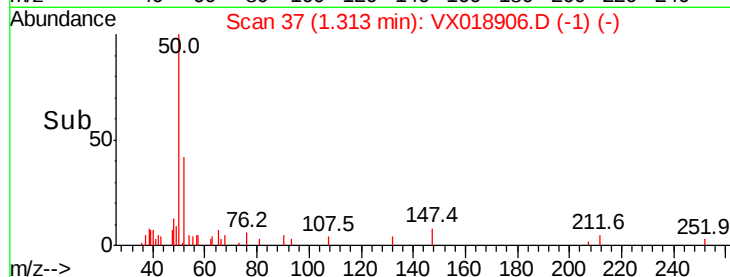
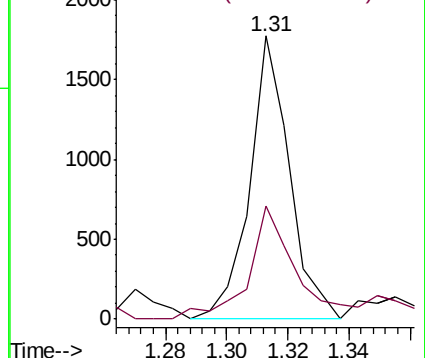
50 100

52 36.0 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.502 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018906.D

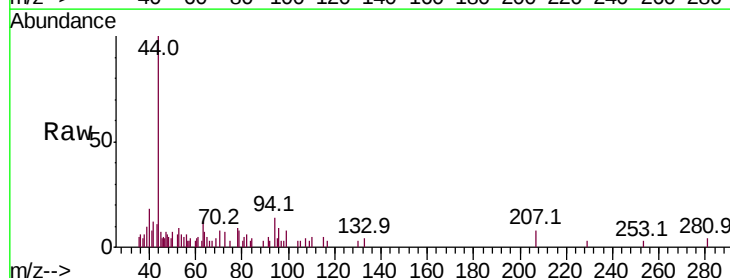
Acq: 12 Oct 2020 16:22

Tgt Ion: 94 Resp: 725

Ion Ratio Lower Upper

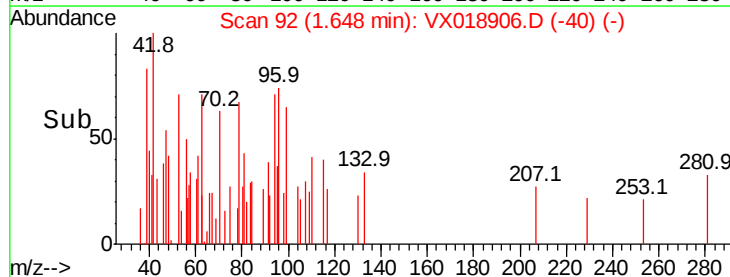
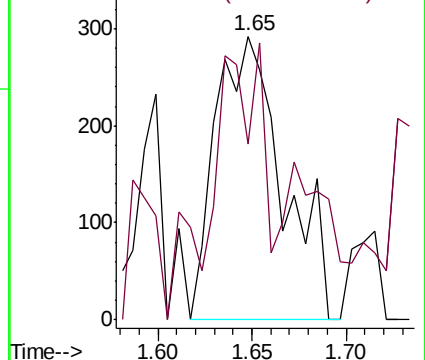
94 100

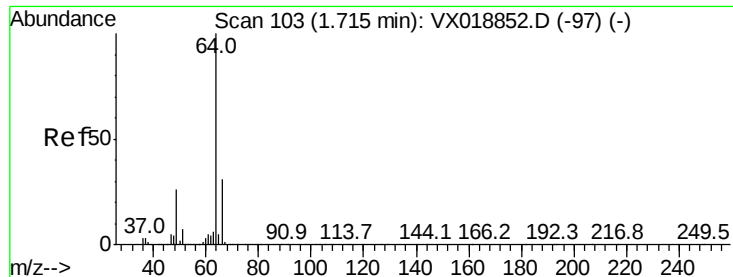
96 41.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

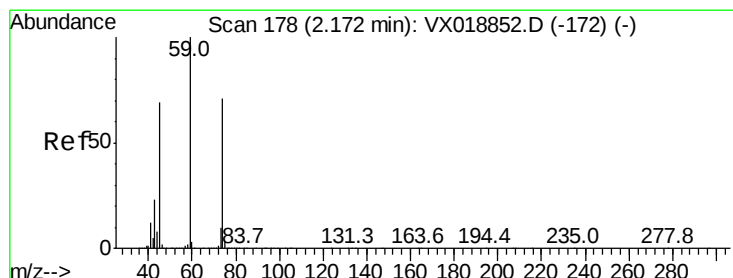
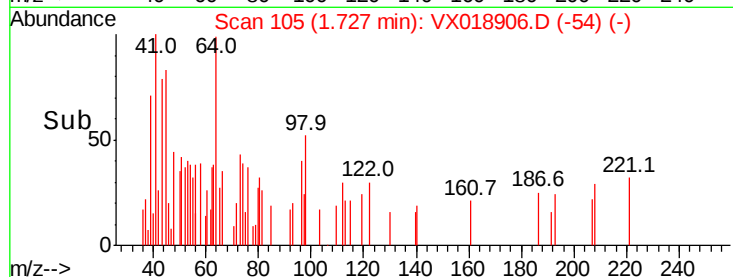
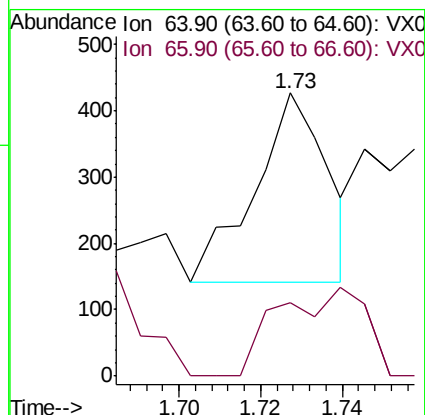
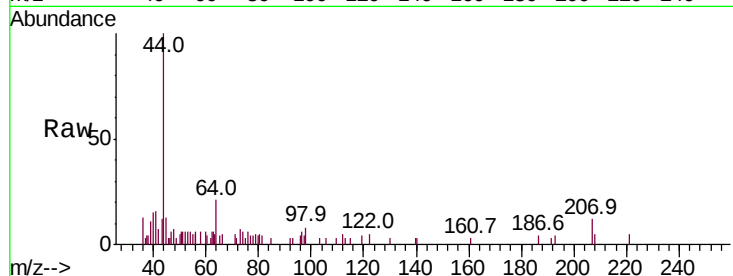




#6
Chloroethane
Concen: 0.204 ug/l
RT: 1.73 min Scan# 105
Delta R.T. 0.01 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

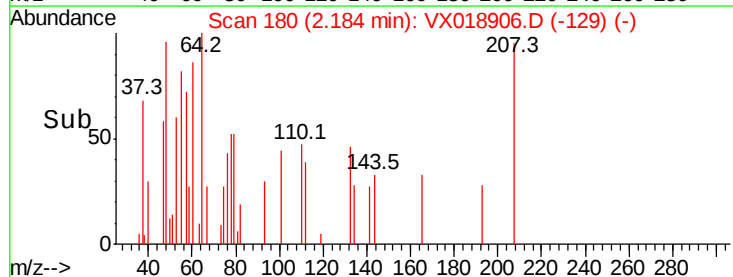
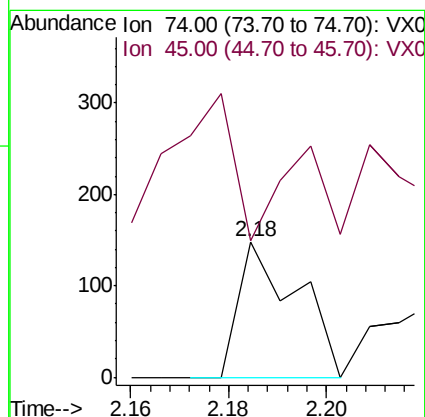
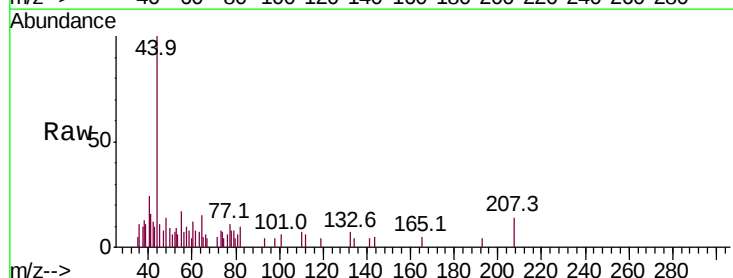
Instrument :
MSVOA_X
ClientSampleId :
FT-MW03S-20201004

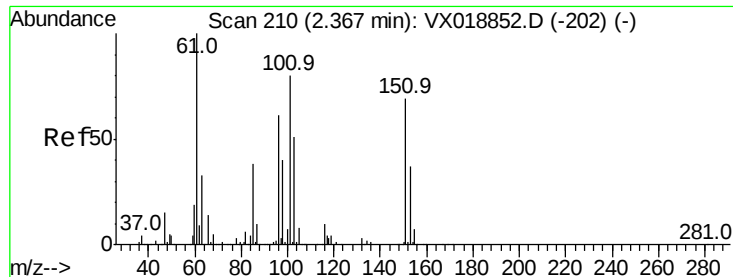
Tot Ion: 64 Resp: 354
Ion Ratio Lower Upper
64 100
66 38.9 24.7 37.1#



#8
Diethyl Ether
Concen: 1.115 ug/l
RT: 2.18 min Scan# 180
Delta R.T. 0.01 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

Tgt Ion: 74 Resp: 123
Ion Ratio Lower Upper
74 100
45 100.8 47.0 141.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.313 ug/l

RT: 2.36 min Scan# 209

Delta R.T. -0.01 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

FT-MW03S-20201004

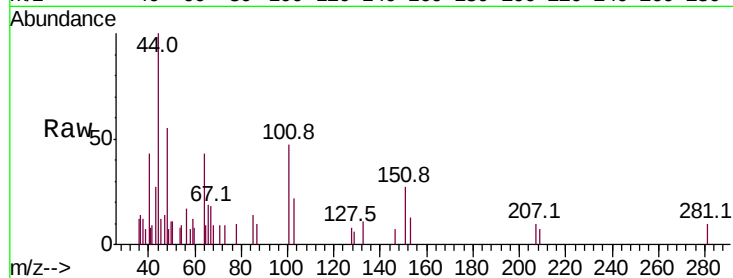
Tot Ion:101 Resp: 767

Ion Ratio Lower Upper

101 100

85 43.8 36.6 55.0

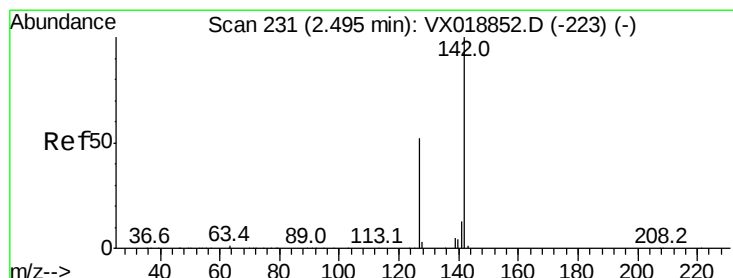
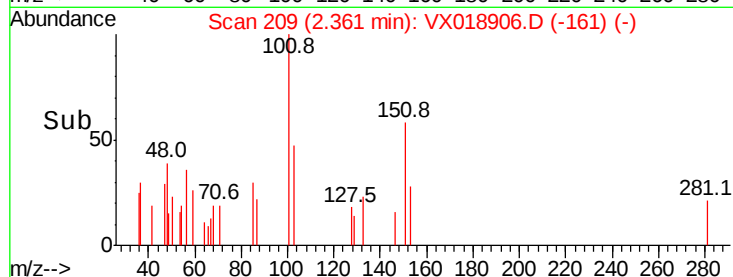
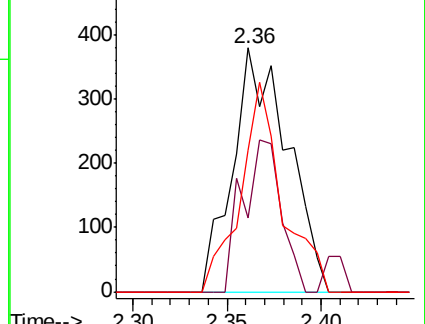
151 64.8 67.2 100.8#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.077 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.00 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

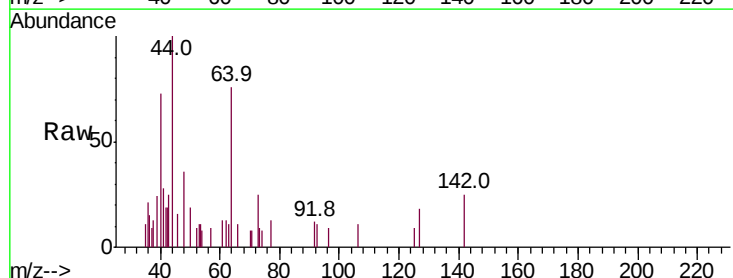
Tgt Ion:142 Resp: 241

Ion Ratio Lower Upper

142 100

127 51.9 42.0 63.0

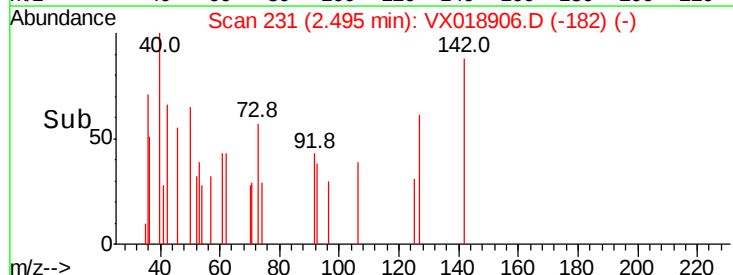
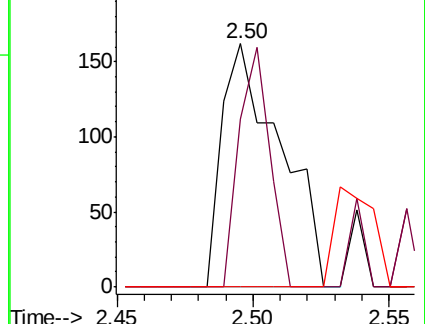
141 0.0 11.8 17.6#

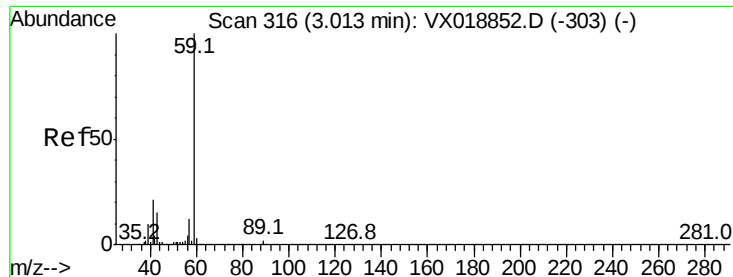


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



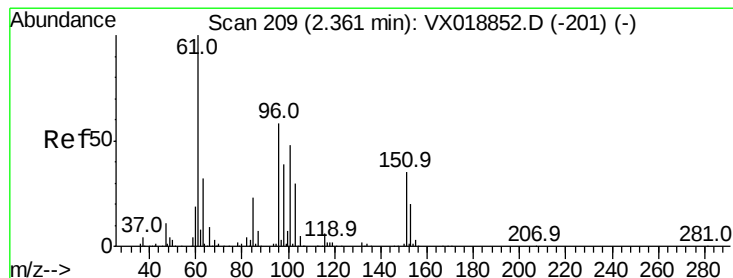
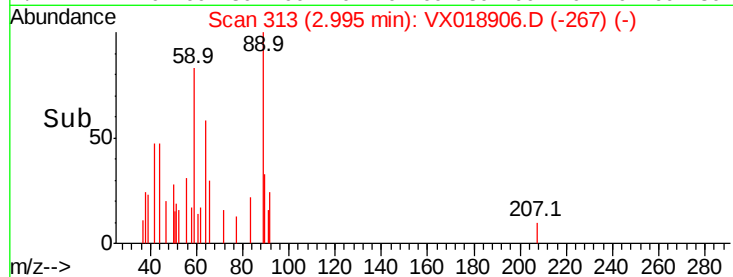
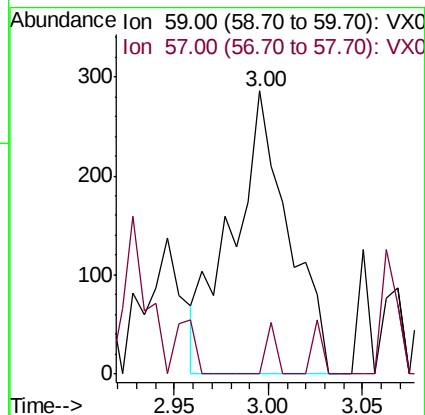
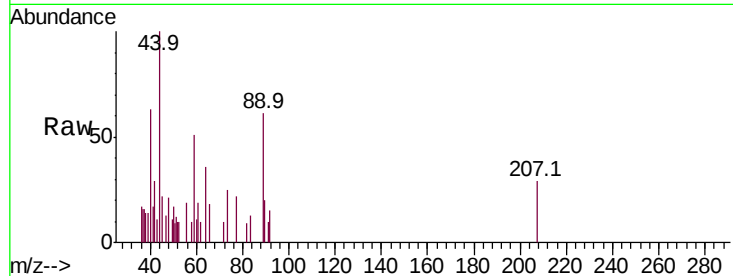


#11

Tert butyl alcohol
 Concen: 1.027 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX018906.D
 Acq: 12 Oct 2020 16:22

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-MW03S-20201004

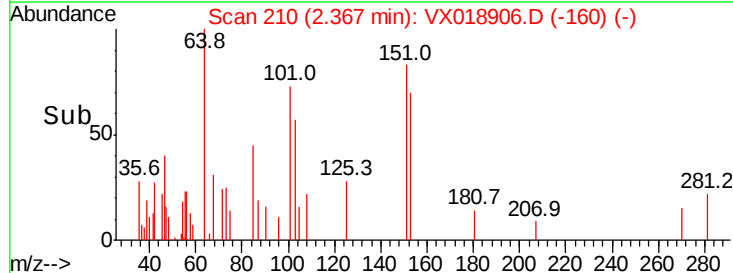
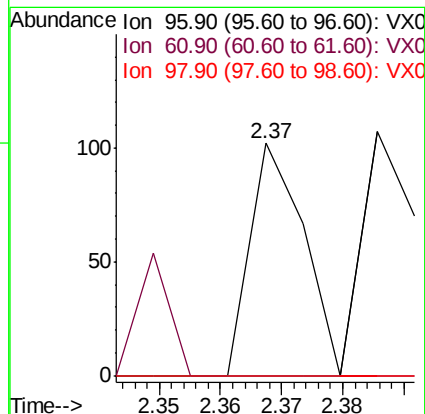
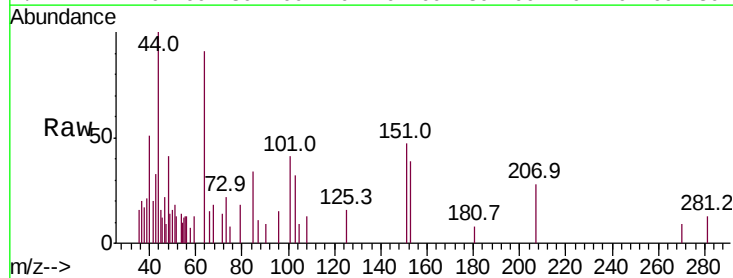
Tot Ion: 59 Resp: 590
 Ion Ratio Lower Upper
 59 100
 57 3.2 9.0 13.6#

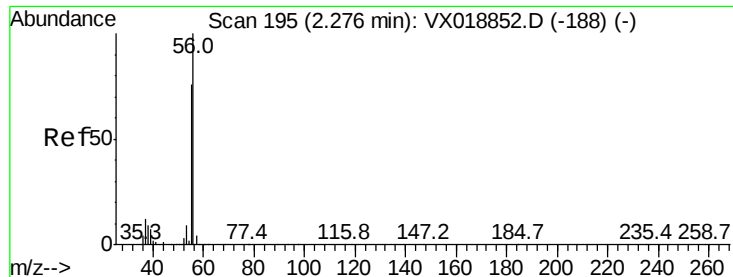


#12

1,1-Dichloroethene
 Concen: 0.732 ug/l
 RT: 2.37 min Scan# 210
 Delta R.T. 0.01 min
 Lab File: VX018906.D
 Acq: 12 Oct 2020 16:22

Tgt Ion: 96 Resp: 62
 Ion Ratio Lower Upper
 96 100
 61 0.0 137.0 205.6#
 98 0.0 53.9 80.9#





#13

Acrolein

Concen: 0.243 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

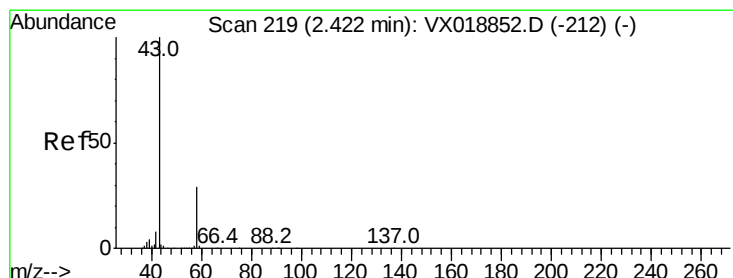
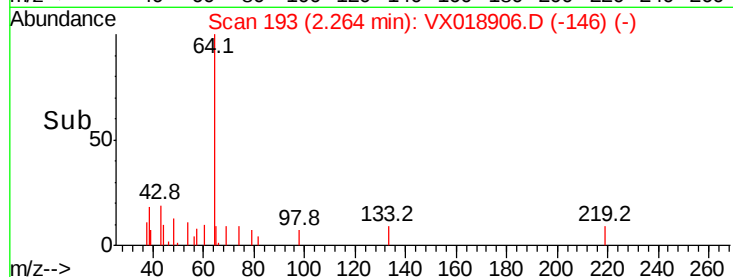
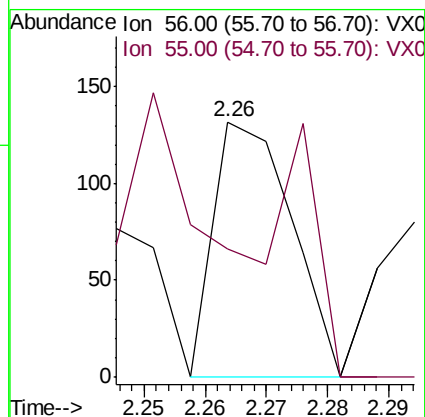
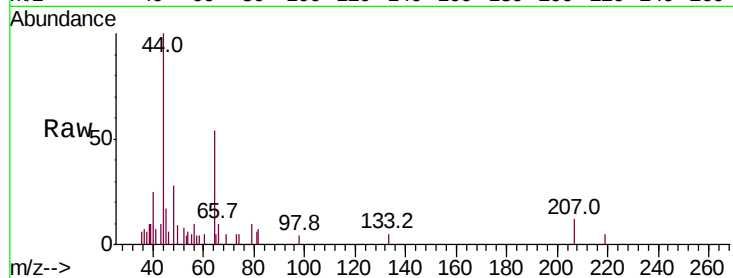
FT-MW03S-20201004

Tot Ion: 56 Resp: 116

Ion Ratio Lower Upper

56 100

55 131.9 58.6 87.8#



#16

Acetone

Concen: Below Cal

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX018906.D

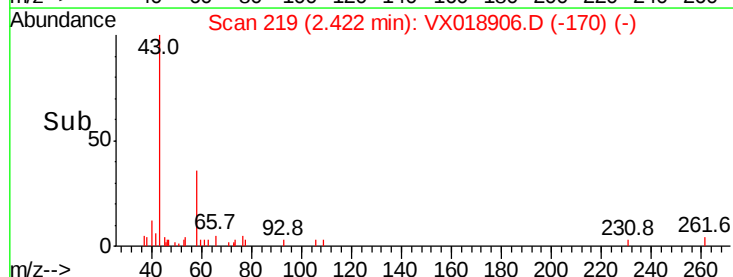
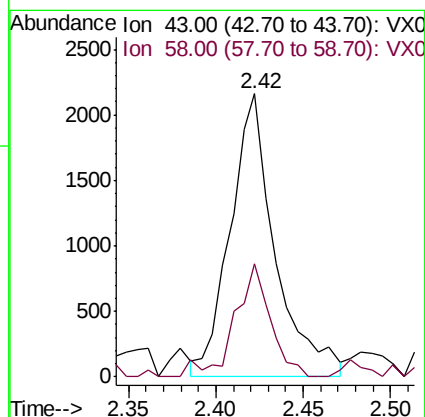
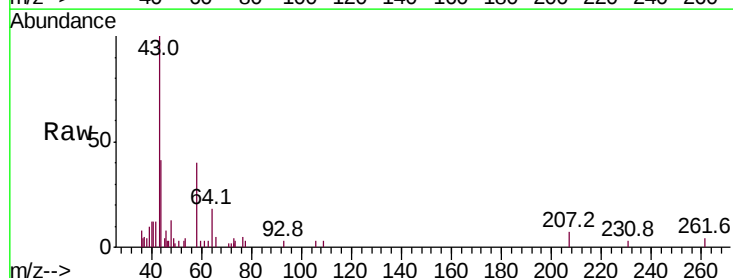
Acq: 12 Oct 2020 16:22

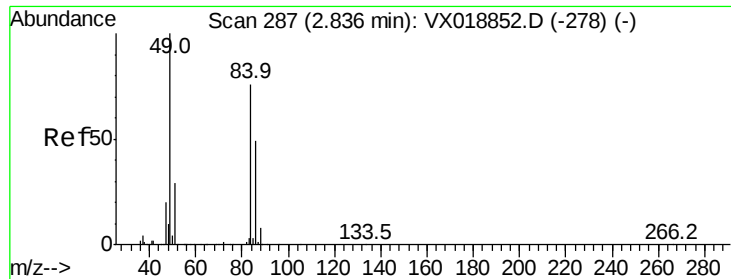
Tgt Ion: 43 Resp: 3857

Ion Ratio Lower Upper

43 100

58 39.3 23.0 34.4#

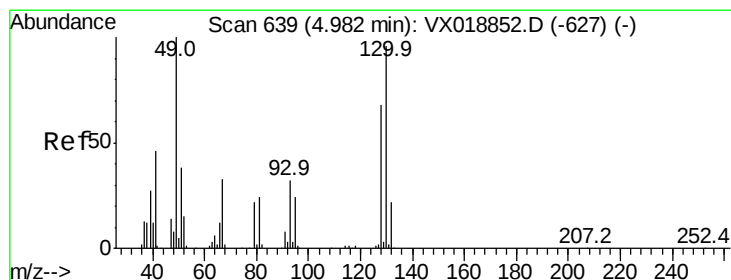
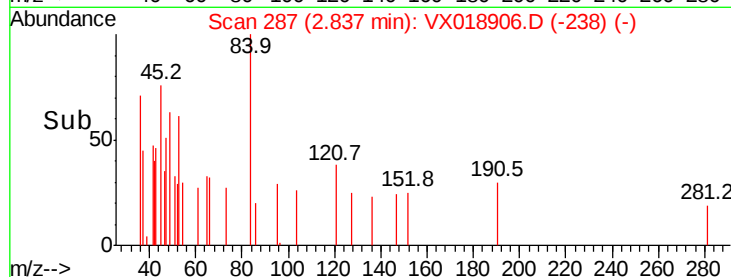
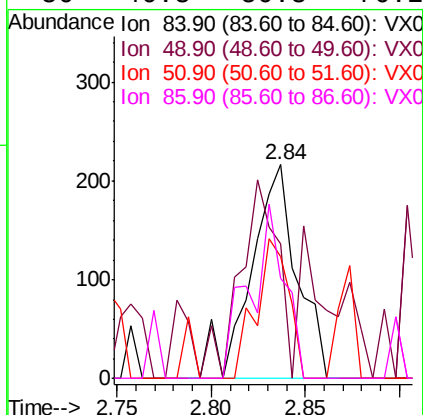
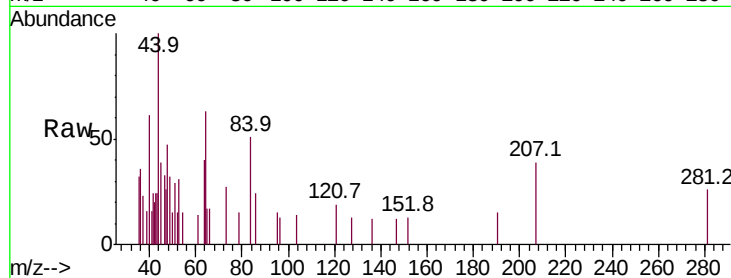




#20
Methvlene Chloride
Concen: 0.644 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

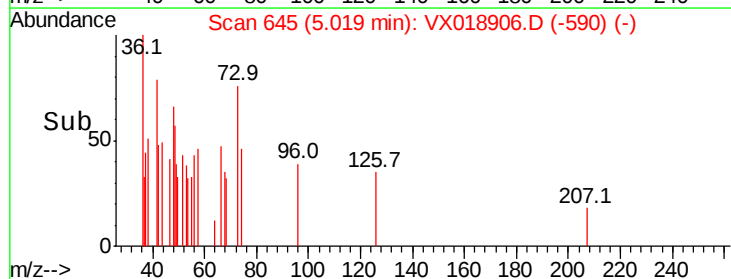
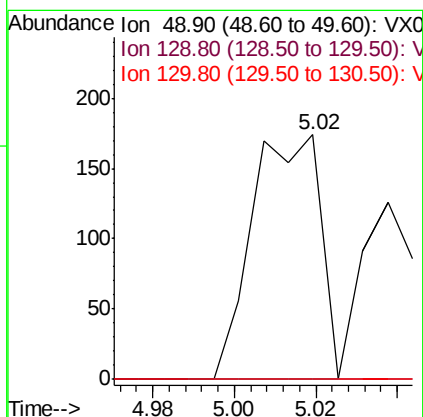
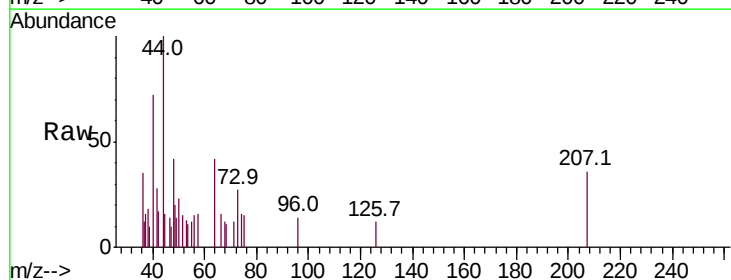
Instrument :
MSVOA_X
ClientSampleId :
FT-MW03S-20201004

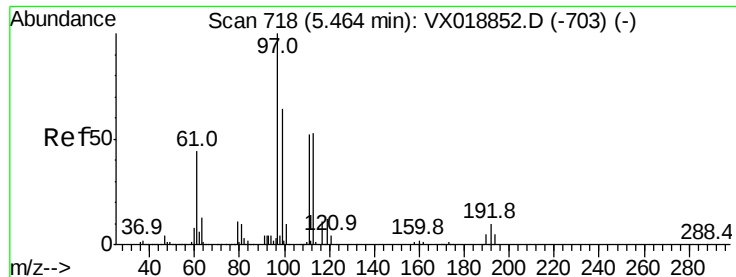
Tot Ion: 84 Resp: 369
Ion Ratio Lower Upper
84 100
49 36.1 104.8 157.2#
51 28.2 30.6 46.0#
86 46.8 50.8 76.2#



#28
Bromochloromethane
Concen: 1.611 ug/l
RT: 5.02 min Scan# 645
Delta R.T. 0.04 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

Tgt Ion: 49 Resp: 202
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 0.0 71.2 106.8#





#32

1,1,1-Trichloroethane

Concen: 0.791 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

FT-MW03S-20201004

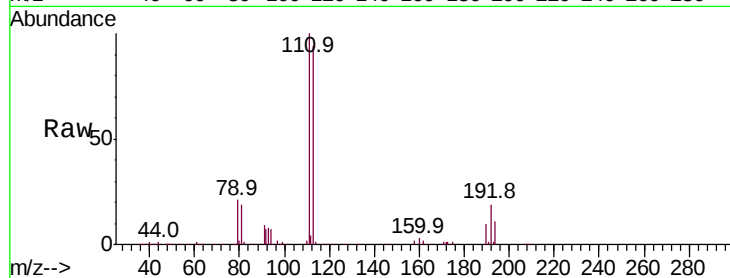
Tot Ion: 97 Resp: 4126

Ion Ratio Lower Upper

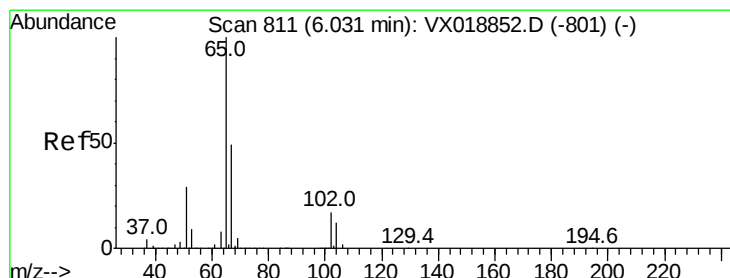
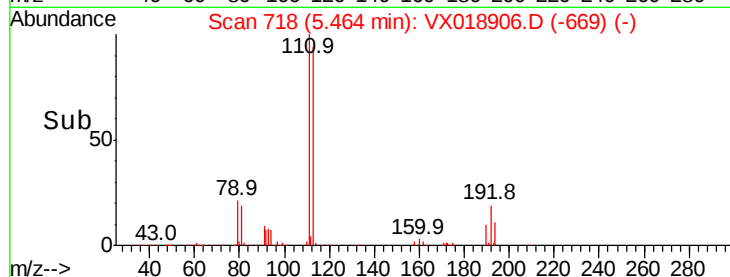
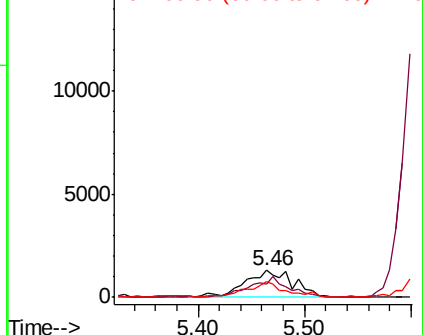
97 100

99 0.0 52.1 78.1#

61 46.0 35.3 52.9



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.947 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018906.D

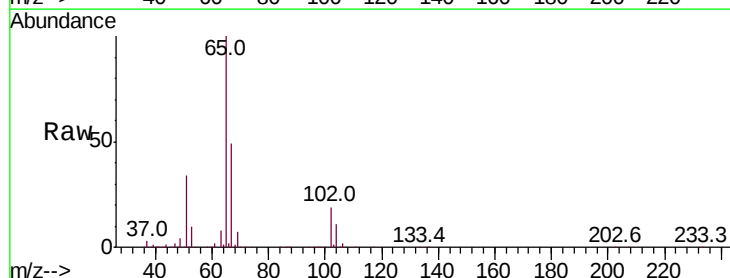
Acq: 12 Oct 2020 16:22

Tgt Ion: 65 Resp: 193143

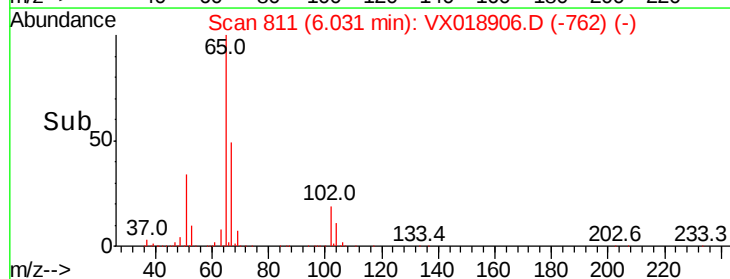
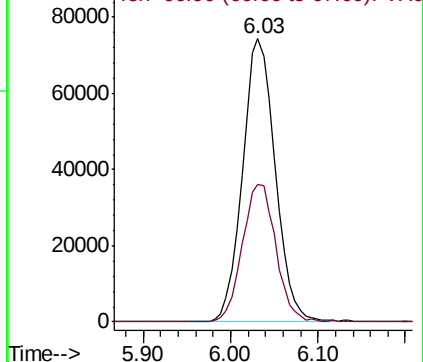
Ion Ratio Lower Upper

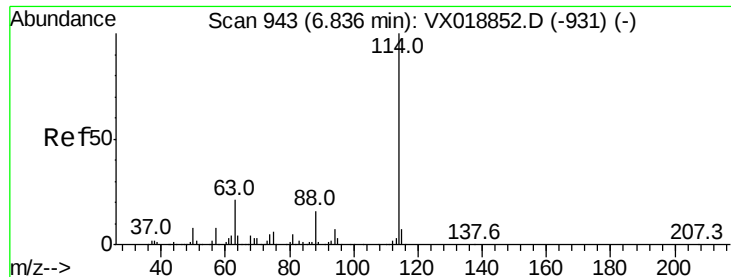
65 100

67 49.9 0.0 97.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

FT-MW03S-20201004

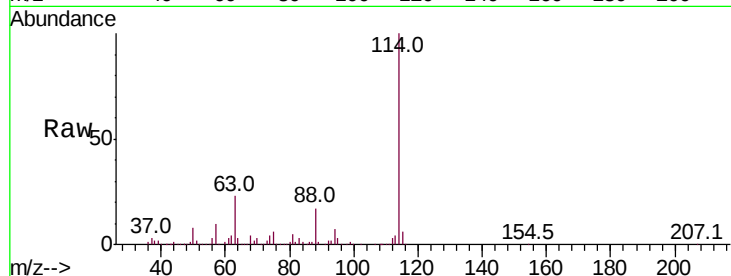
Tot Ion:114 Resp: 389397

Ion Ratio Lower Upper

114 100

63 22.9 0.0 42.4

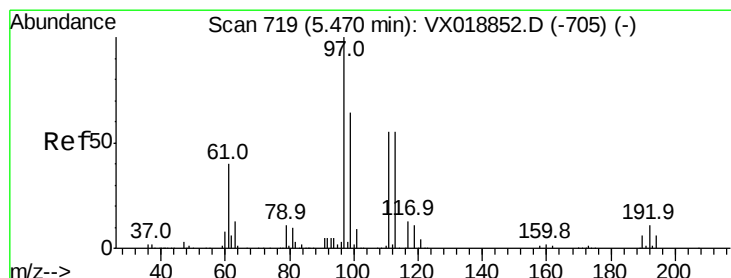
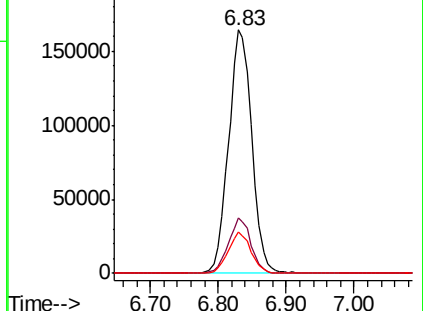
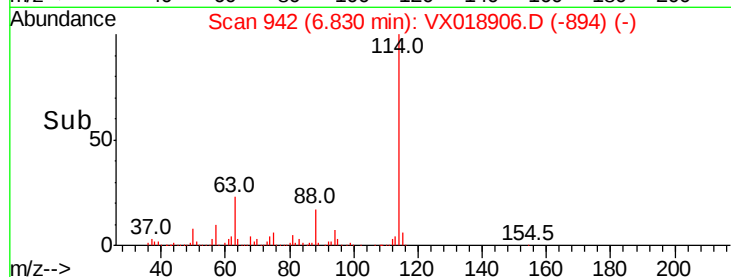
88 16.9 0.0 32.6



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: 52.566 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

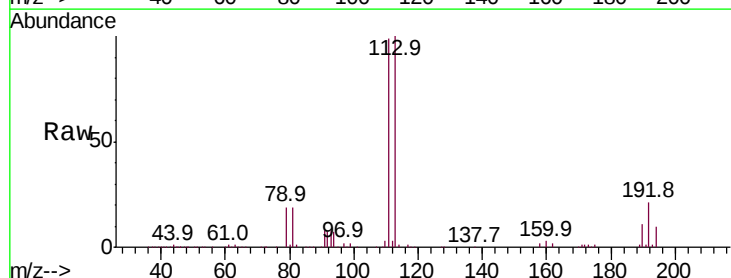
Tgt Ion:113 Resp: 145874

Ion Ratio Lower Upper

113 100

111 102.8 80.1 120.1

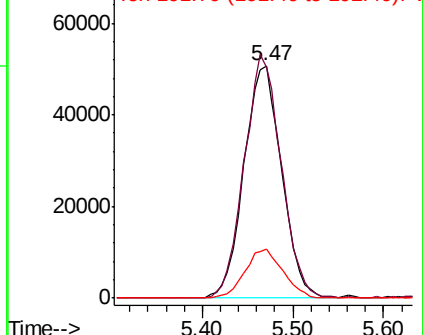
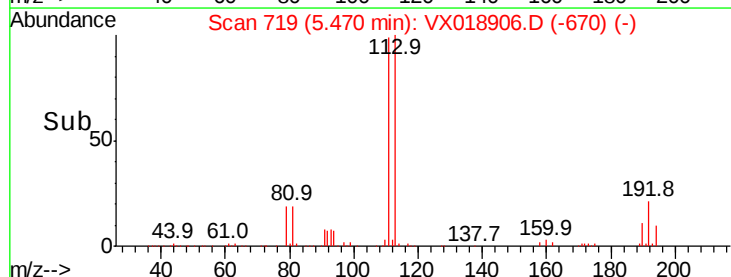
192 21.3 16.0 24.0

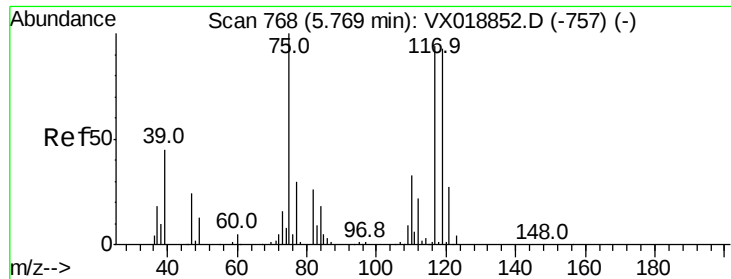


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.940 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

FT-MW03S-20201004

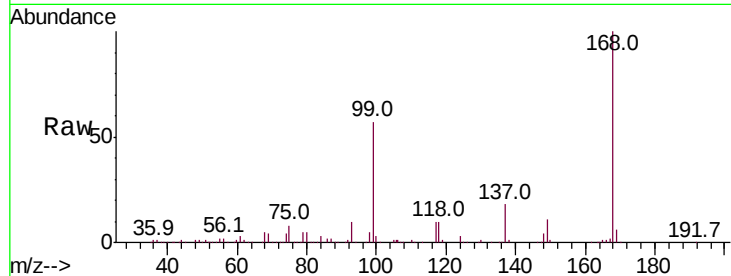
Tot Ion: 75 Resp: 20226

Ion Ratio Lower Upper

75 100

110 10.3 17.8 53.5#

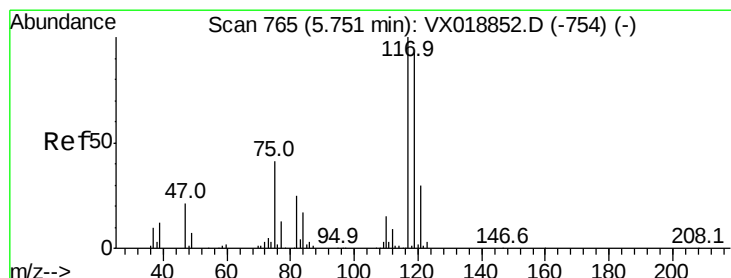
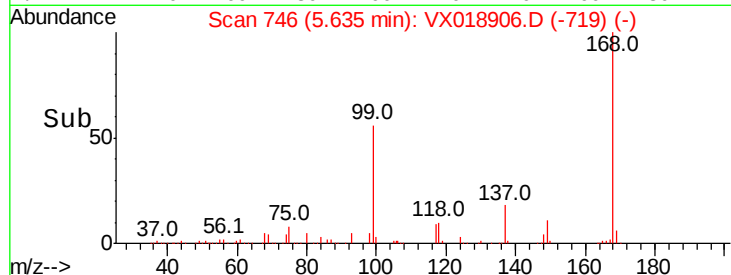
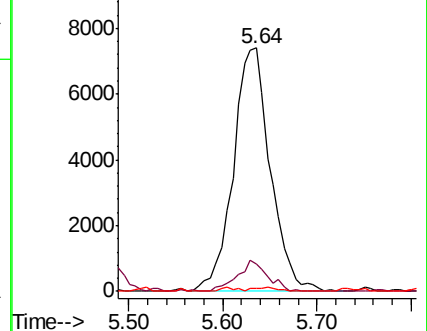
77 1.1 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.134 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

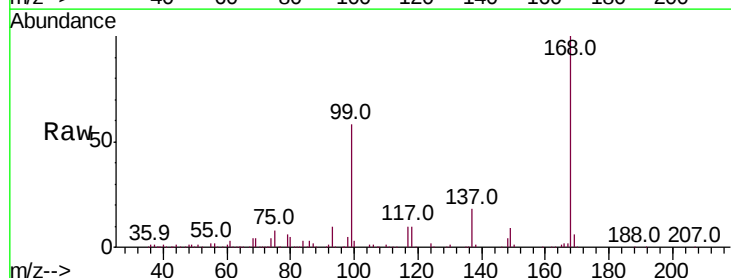
Tgt Ion: 117 Resp: 26051

Ion Ratio Lower Upper

117 100

119 4.9 73.9 110.9#

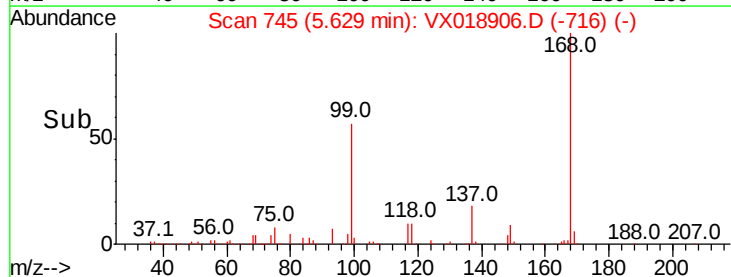
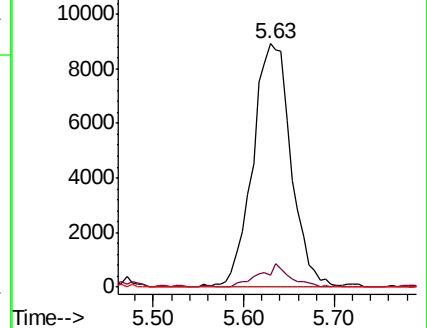
121 0.0 23.6 35.4#

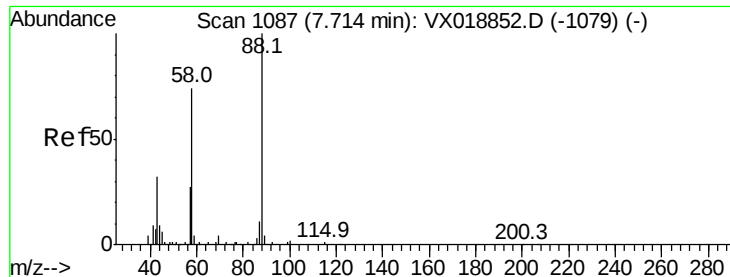


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

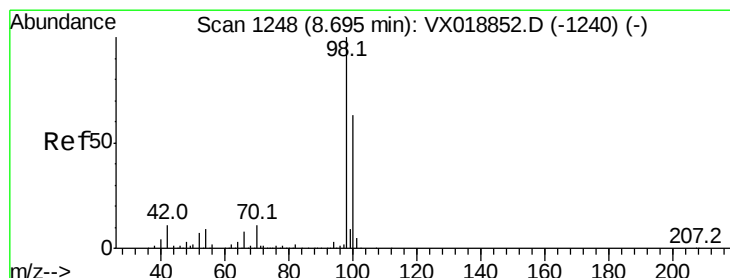
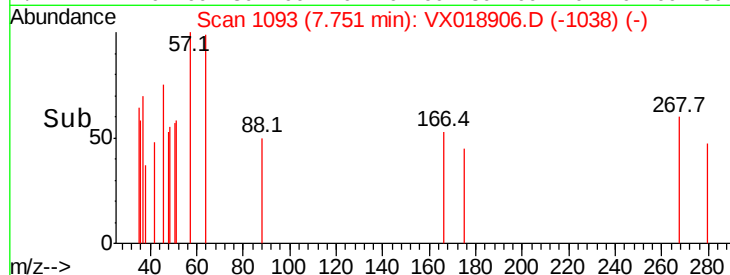
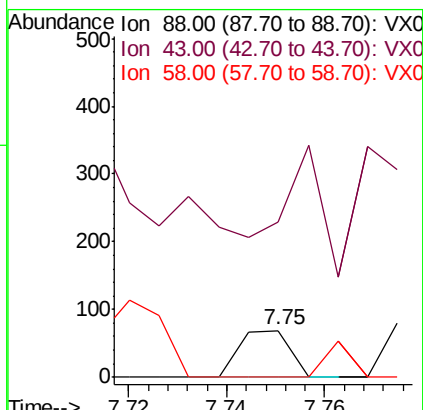
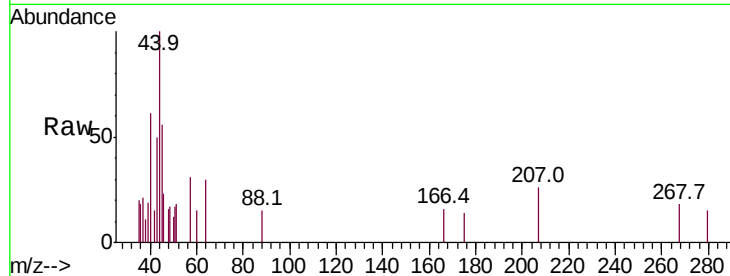




#49
1,4-Dioxane
Concen: 1.048 ug/l
RT: 7.75 min Scan# 1093
Delta R.T. 0.04 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

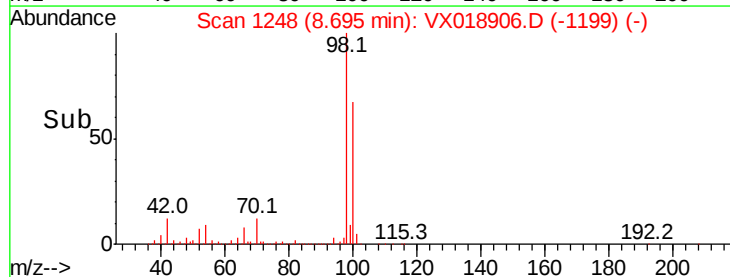
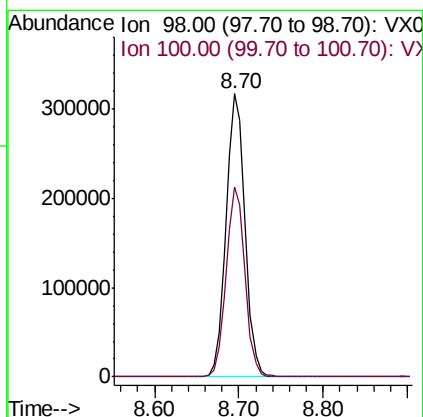
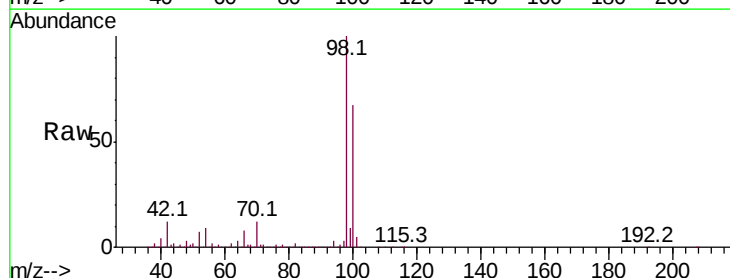
Instrument :
MSVOA_X
ClientSampleId :
FT-MW03S-20201004

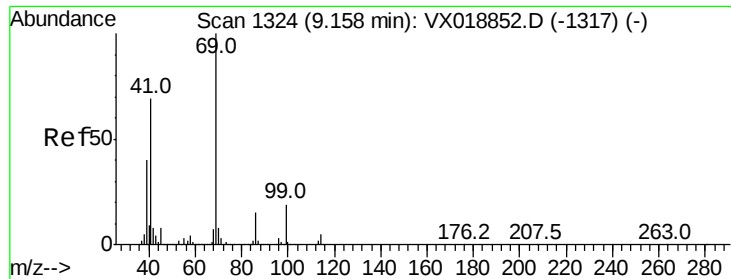
Tot Ion: 88 Resp: 49
Ion Ratio Lower Upper
88 100
43 206.1 31.0 46.6#
58 40.8 59.3 88.9#



#50
Toluene-d8
Concen: 50.955 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

Tgt Ion: 98 Resp: 490500
Ion Ratio Lower Upper
98 100
100 66.5 53.1 79.7





#56

Ethyl methacrylate

Concen: 2.940 ug/l

RT: 9.25 min Scan# 1339

Delta R.T. 0.09 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

FT-MW03S-20201004

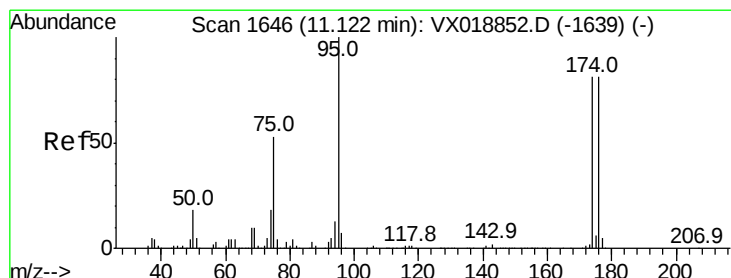
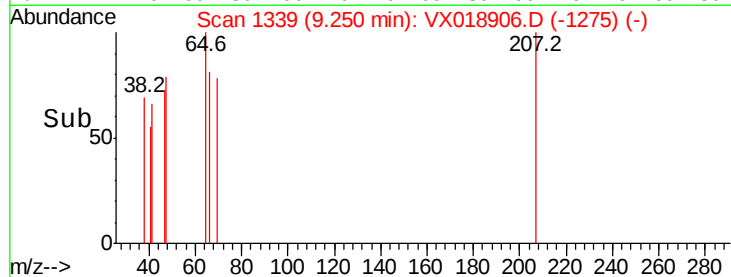
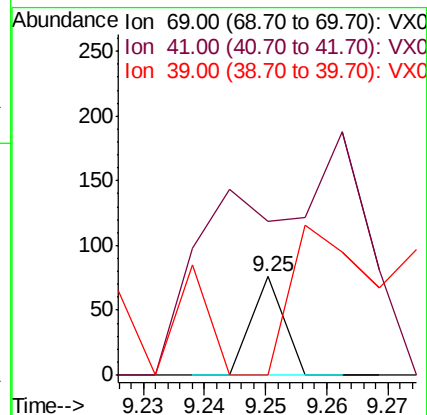
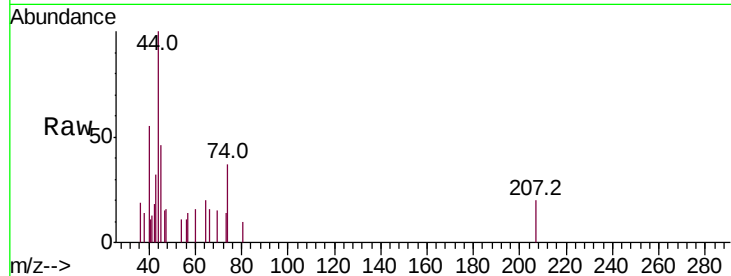
Tot Ion: 69 Resp: 28

Ion Ratio Lower Upper

69 100

41 982.1 54.6 81.8#

39 364.3 31.5 47.3#



#62

4-Bromofluorobenzene

Concen: 47.505 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

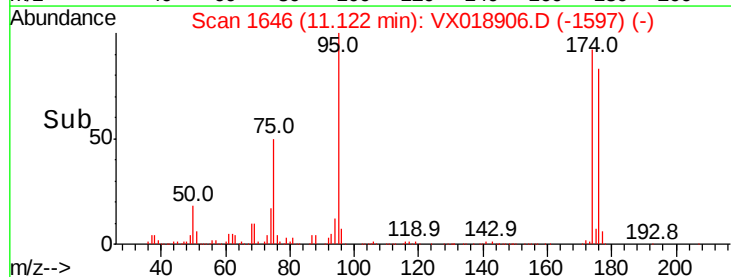
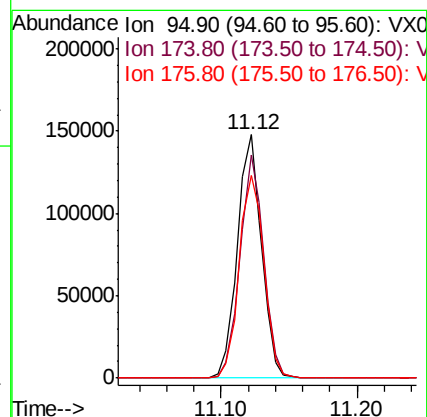
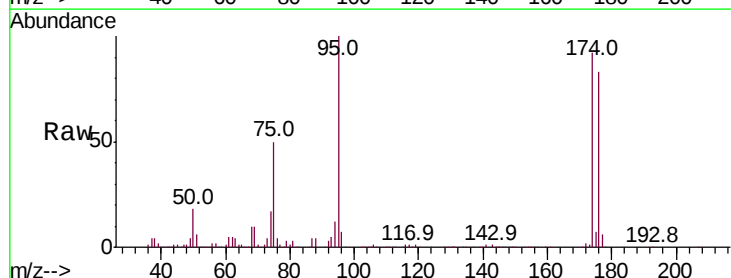
Tgt Ion: 95 Resp: 182256

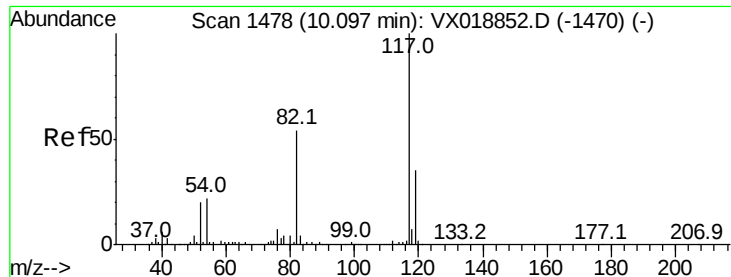
Ion Ratio Lower Upper

95 100

174 90.1 0.0 160.0

176 85.8 0.0 161.2

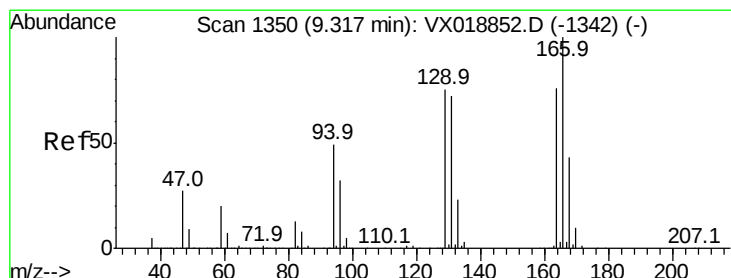
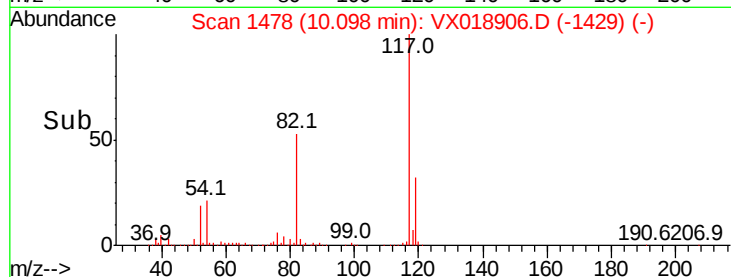
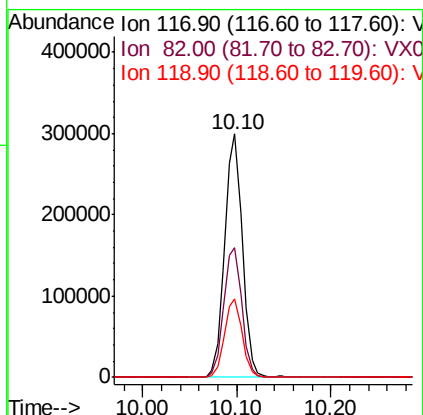
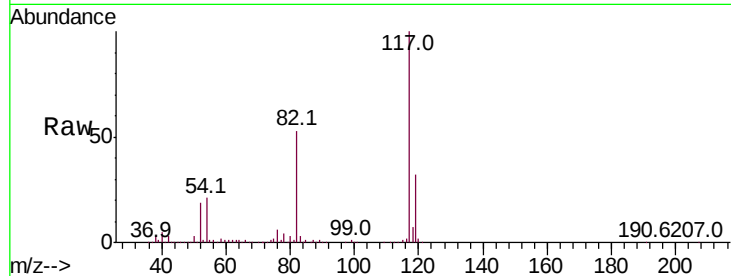




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

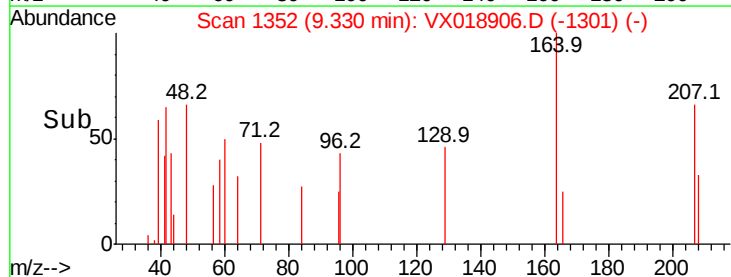
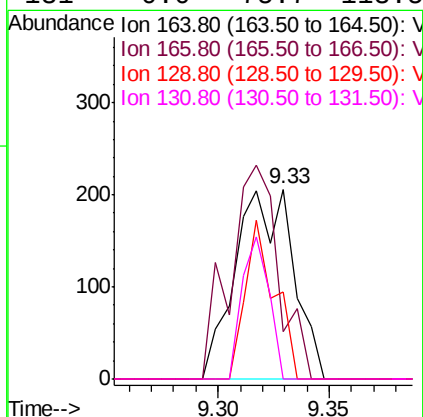
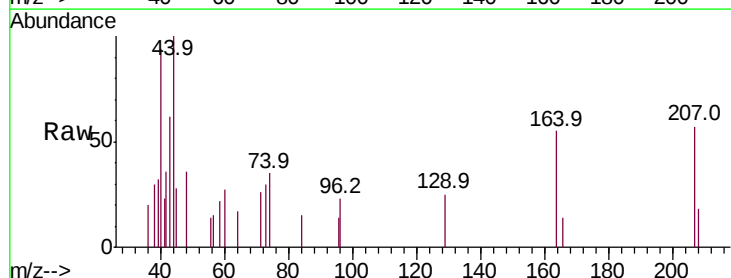
Instrument :
MSVOA_X
ClientSampleId :
FT-MW03S-20201004

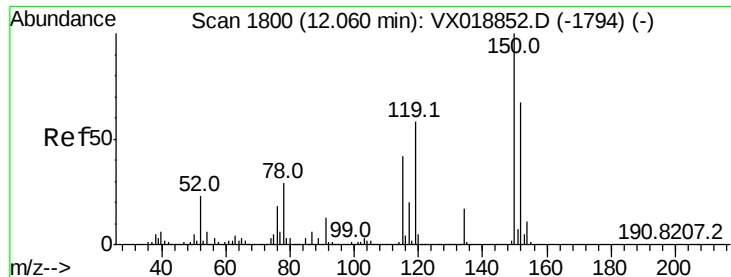
Tot Ion:117 Resp: 390567
Ion Ratio Lower Upper
117 100
82 53.2 43.4 65.2
119 32.0 28.3 42.5



#64
Tetrachloroethene
Concen: Below Cal
RT: 9.33 min Scan# 1352
Delta R.T. 0.01 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

Tgt Ion:164 Resp: 370
Ion Ratio Lower Upper
164 100
166 24.8 105.4 158.0#
129 45.6 79.0 118.6#
131 0.0 75.7 113.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018906.D

Acq: 12 Oct 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

FT-MW03S-20201004

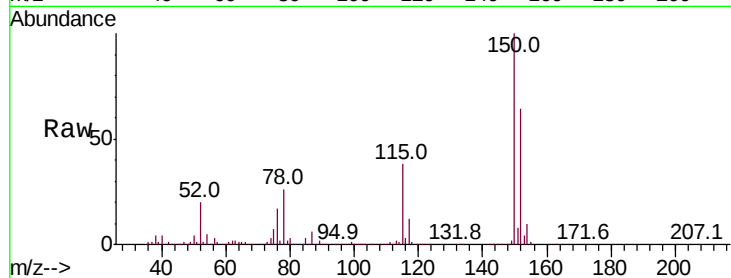
Tot Ion:152 Resp: 204339

Ion Ratio Lower Upper

152 100

115 57.1 41.8 125.4

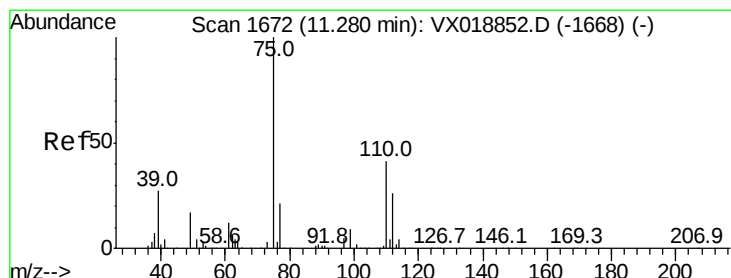
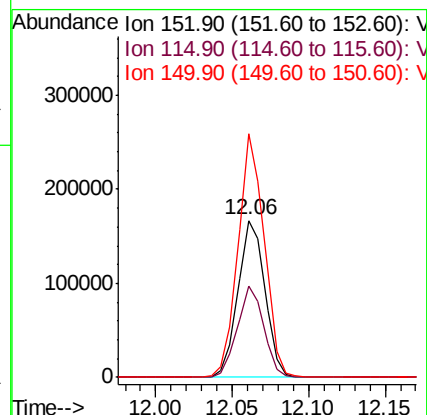
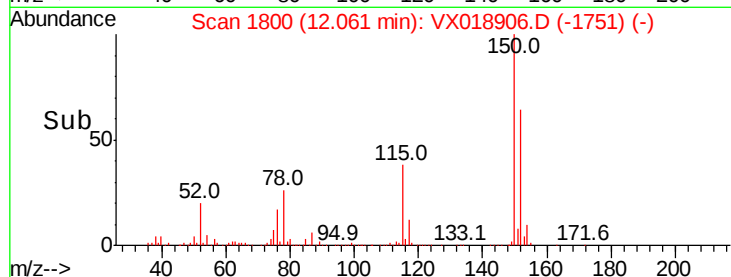
150 150.6 0.0 347.6



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: 21.424 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018906.D

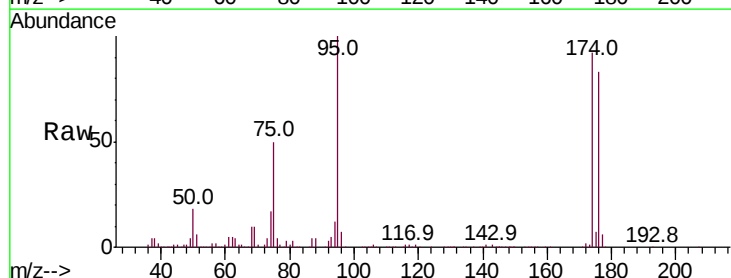
Acq: 12 Oct 2020 16:22

Tgt Ion: 75 Resp: 94325

Ion Ratio Lower Upper

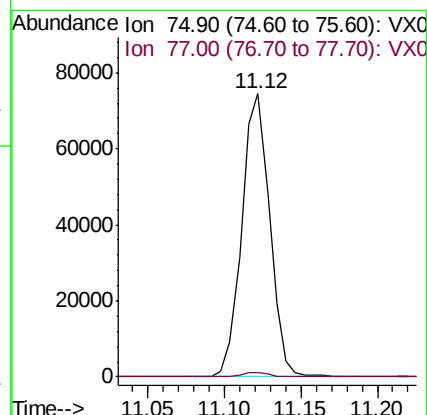
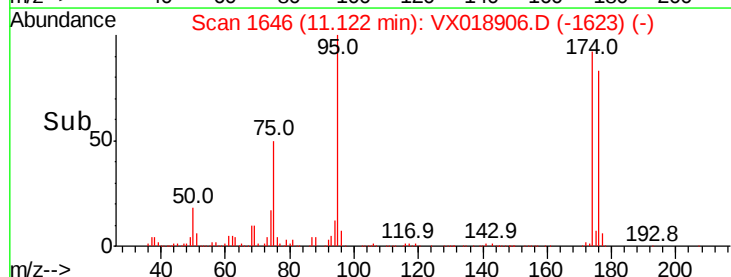
75 100

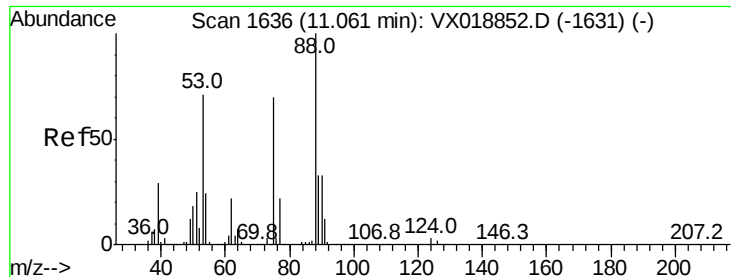
77 1.5 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

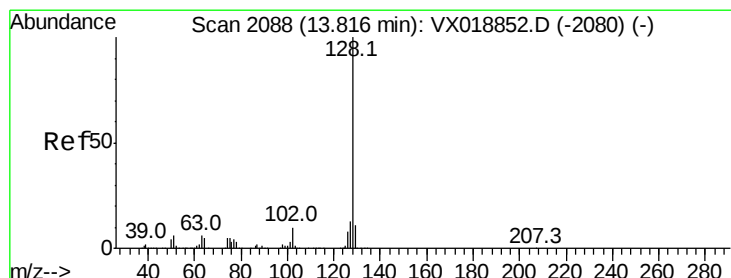
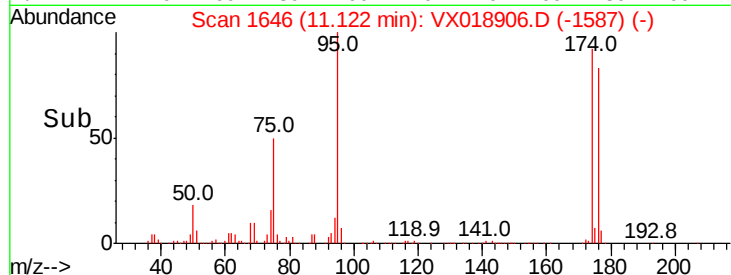
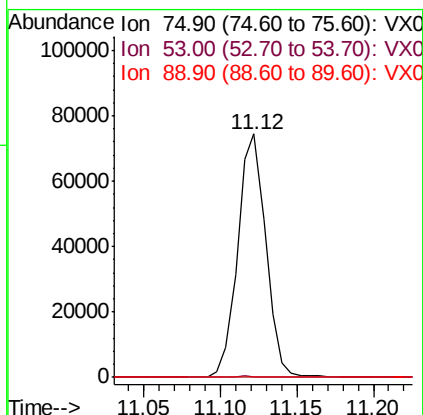
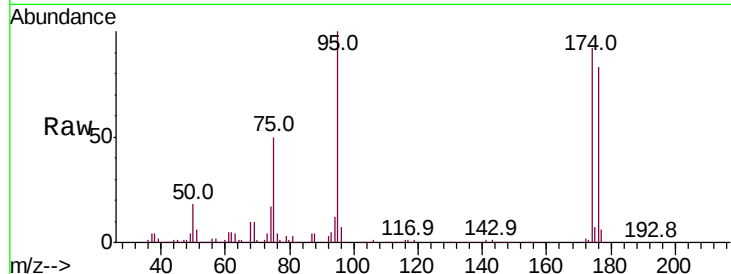




#81
trans-1,4-Dichloro-2-butene
Concen: 60.713 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

Instrument :
MSVOA_X
ClientSampleId :
FT-MW03S-20201004

Tot Ion: 75 Resp: 94325
Ion Ratio Lower Upper
75 100
53 0.5 85.0 127.4#
89 0.0 39.0 58.4#



#95
Naphthalene
Concen: 3.099 ug/l
RT: 13.81 min Scan# 2087
Delta R.T. -0.01 min
Lab File: VX018906.D
Acq: 12 Oct 2020 16:22

Tgt Ion: 128 Resp: 331
Ion Ratio Lower Upper
128 100
127 0.0 10.1 15.1#
129 0.0 8.6 13.0#

