

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092420\
 Data File : VX018579.D
 Acq On : 24 Sep 2020 17:46
 Operator : JC/SP
 Sample : L4118-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW202D-20200919

Quant Time: Sep 25 01:08:43 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

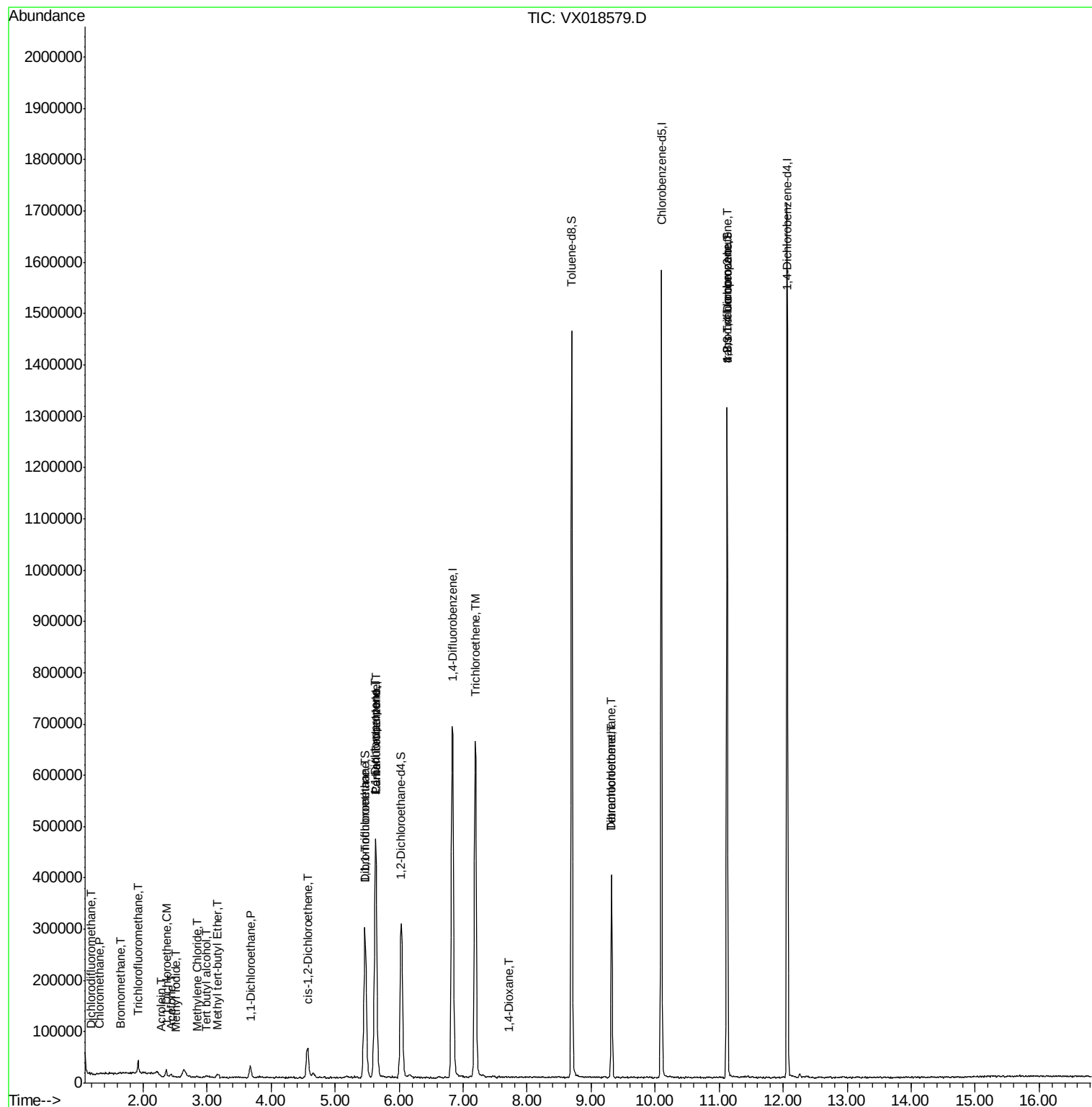
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	420315	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	684771	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	677587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	339483	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	313367	52.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.40%	
35) Dibromofluoromethane	5.46	113	244512	51.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.30%	
50) Toluene-d8	8.70	98	852841	49.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	11.12	95	320910	46.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.80%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	1327	0.333	ug/l	87
3) Chloromethane	1.31	50	1524	0.327	ug/l #	32
5) Bromomethane	1.65	94	958	0.316	ug/l #	13
7) Trichlorofluoromethane	1.92	101	16120	2.148	ug/l #	83
10) Methyl Iodide	2.50	142	61	4.925	ug/l #	17
11) Tert butyl alcohol	2.99	59	1645	1.590	ug/l #	87
12) 1,1-Dichloroethene	2.36	96	5519	1.356	ug/l	82
13) Acrolein	2.29	56	297	0.453	ug/l #	30
16) Acetone	2.43	43	5192	2.283	ug/l #	82
19) Methyl tert-butyl Ether	3.17	73	5470	0.383	ug/l #	84
20) Methylene Chloride	2.83	84	1584	0.316	ug/l #	57
24) 1,1-Dichloroethane	3.67	63	24283	2.840	ug/l	100
27) cis-1,2-Dichloroethene	4.57	96	37431	7.059	ug/l	88
32) 1,1,1-Trichloroethane	5.46	97	3756	0.461	ug/l #	36
36) 1,1-Dichloropropene	5.62	75	34204	5.146	ug/l #	49
38) Carbon Tetrachloride	5.63	117	44363	6.027	ug/l #	18
44) Trichloroethene	7.19	130	255182	46.279	ug/l	99
49) 1,4-Dioxane	7.71	88	152	1.605	ug/l #	1
60) Dibromochloromethane	9.32	129	71688	12.088	ug/l #	11
64) Tetrachloroethene	9.32	164	73800	13.834	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	167871	23.531	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	167871	60.298	ug/l #	13

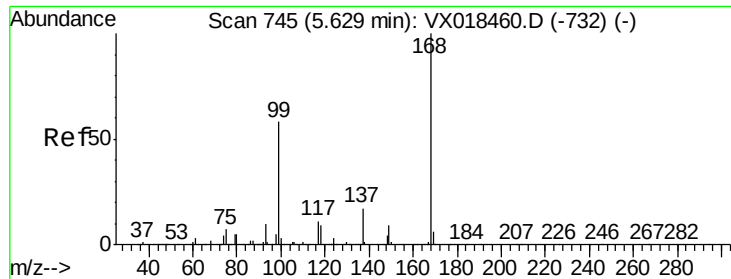
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

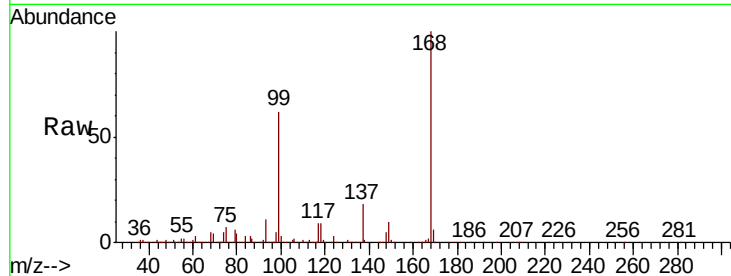
MW202D-20200919

Tot Ion:168 Resp: 420315

Ion Ratio Lower Upper

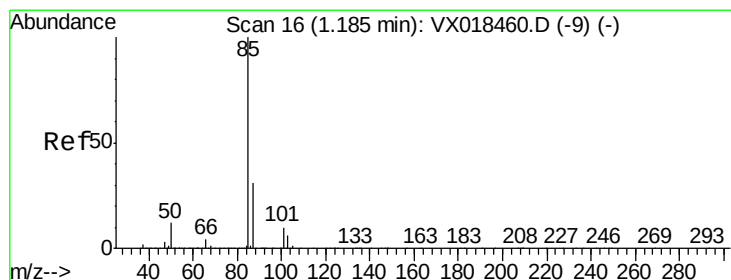
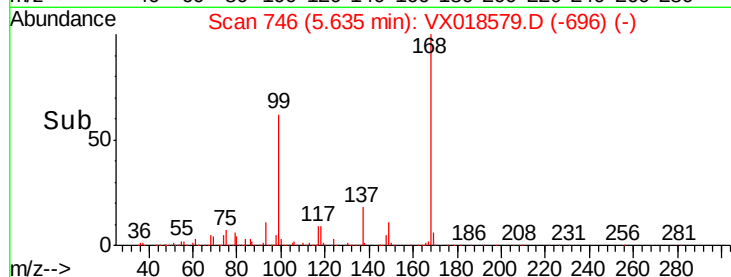
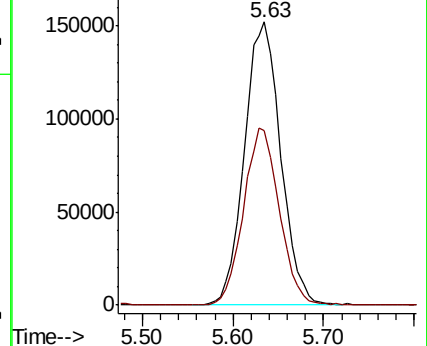
168 100

99 61.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.333 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX018579.D

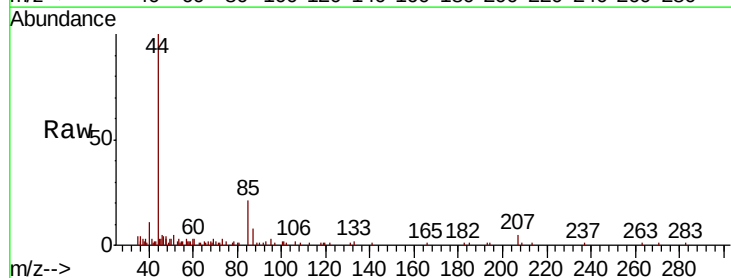
Acq: 24 Sep 2020 17:46

Tgt Ion: 85 Resp: 1327

Ion Ratio Lower Upper

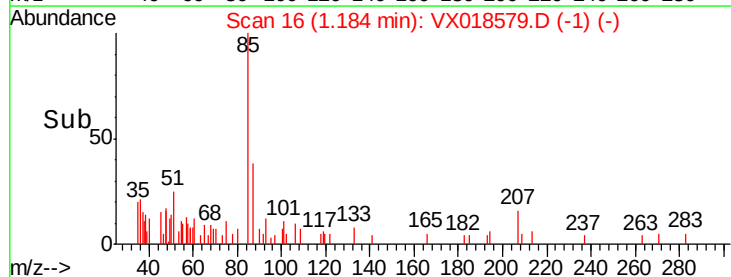
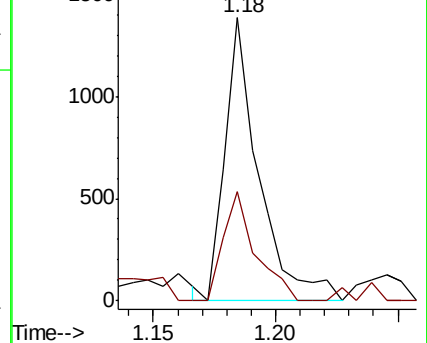
85 100

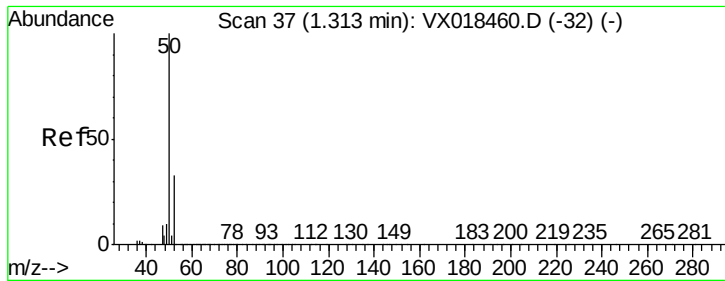
87 38.5 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.327 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

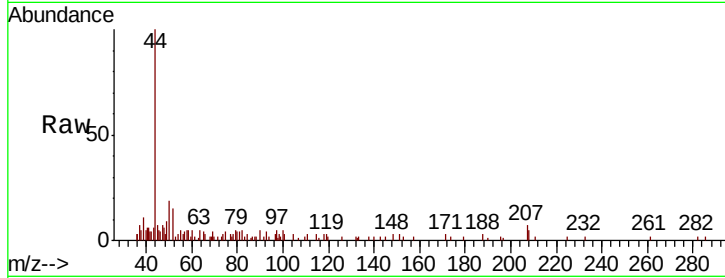
MW202D-20200919

Tot Ion: 50 Resp: 1524

Ion Ratio Lower Upper

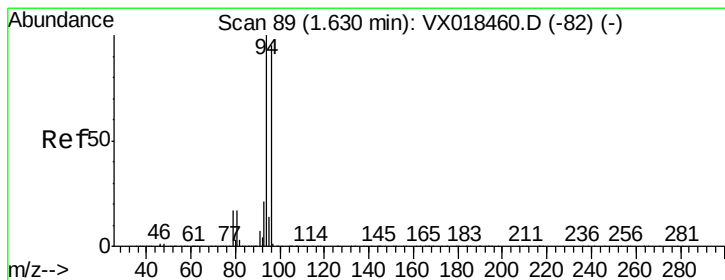
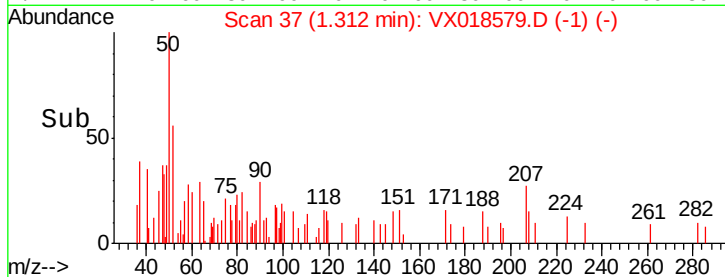
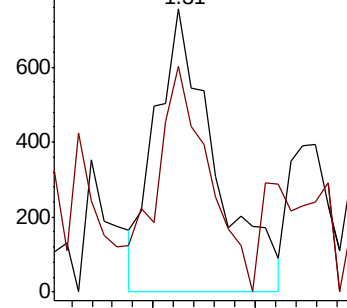
50 100

52 72.0 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.316 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018579.D

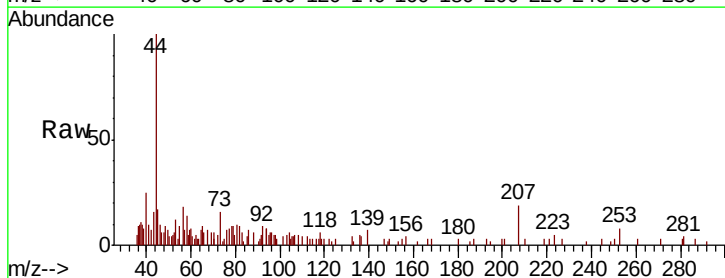
Acq: 24 Sep 2020 17:46

Tgt Ion: 94 Resp: 958

Ion Ratio Lower Upper

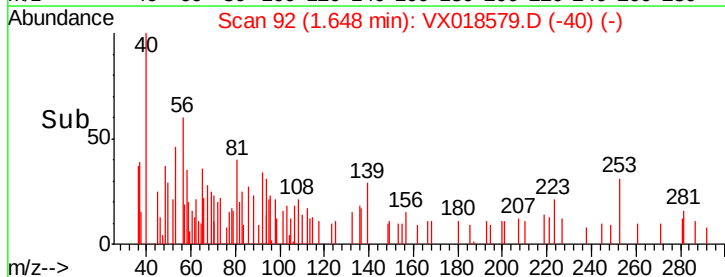
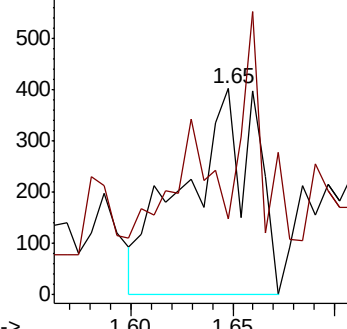
94 100

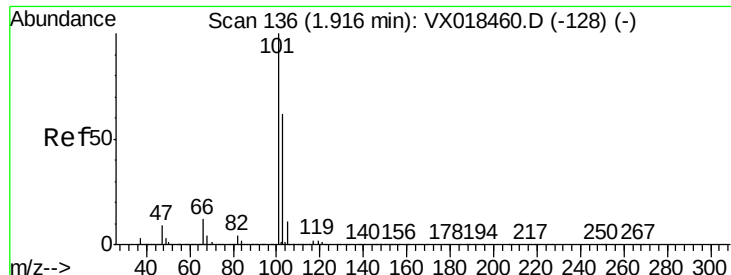
96 9.7 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



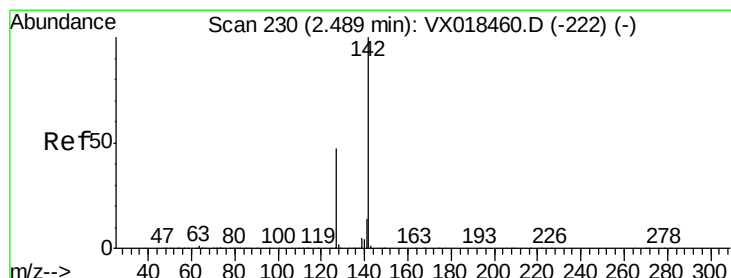
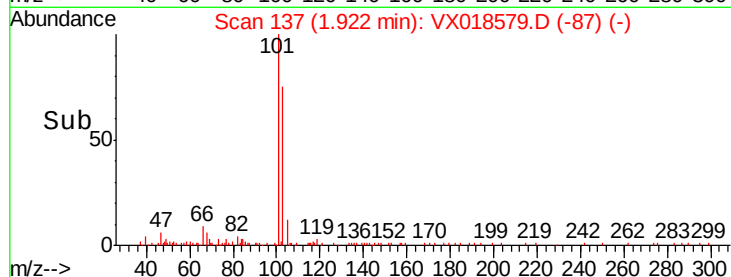
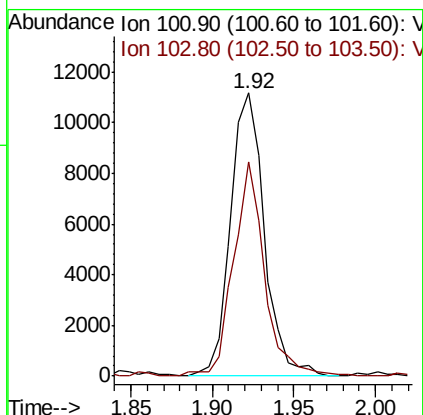
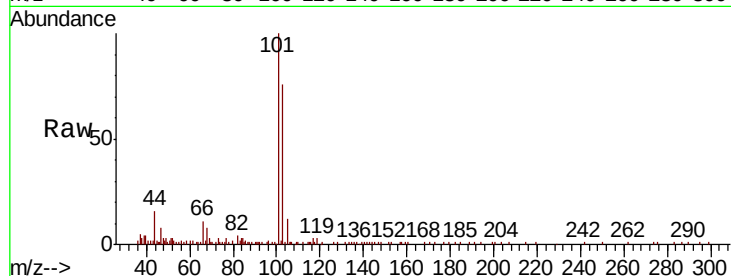


#7

Trichlorofluoromethane
 Concen: 2.148 ug/l
 RT: 1.92 min Scan# 137
 Delta R.T. 0.01 min
 Lab File: VX018579.D
 Acq: 24 Sep 2020 17:46

Instrument :
 MSVOA_X
 ClientSampleId :
 MW202D-20200919

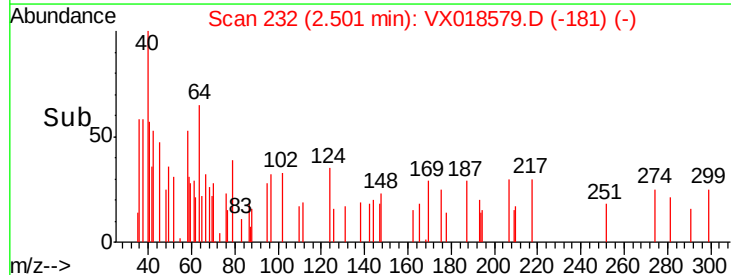
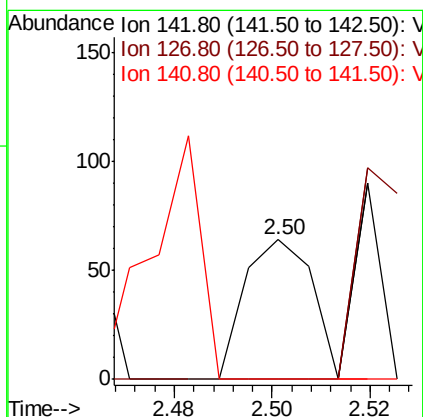
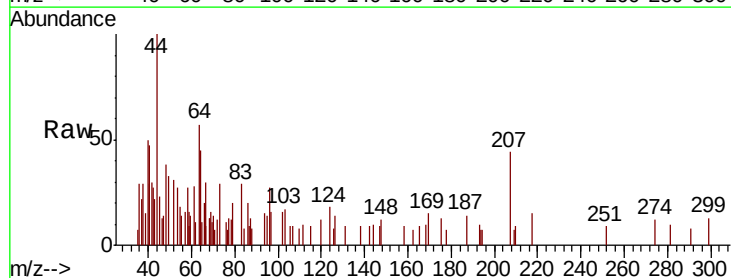
Tot Ion:101 Resp: 16120
 Ion Ratio Lower Upper
 101 100
 103 75.0 49.6 74.4#

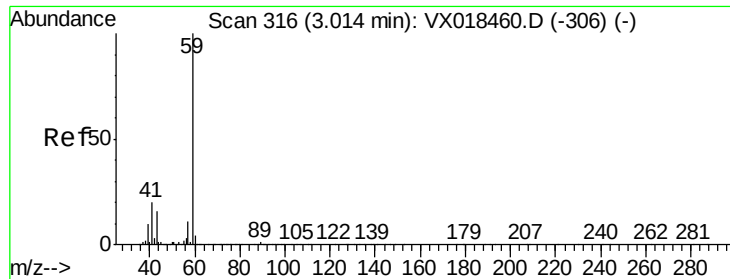


#10

Methyl Iodide
 Concen: 4.925 ug/l
 RT: 2.50 min Scan# 232
 Delta R.T. 0.01 min
 Lab File: VX018579.D
 Acq: 24 Sep 2020 17:46

Tgt Ion:142 Resp: 61
 Ion Ratio Lower Upper
 142 100
 127 109.8 36.0 54.0#
 141 0.0 11.9 17.9#



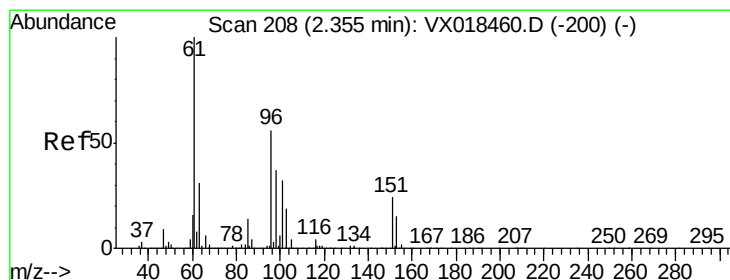
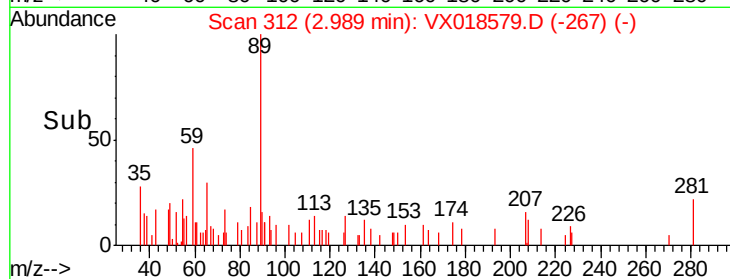
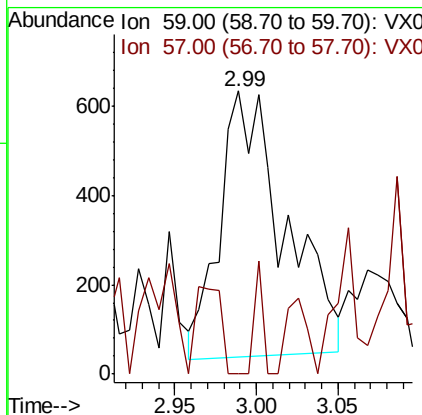
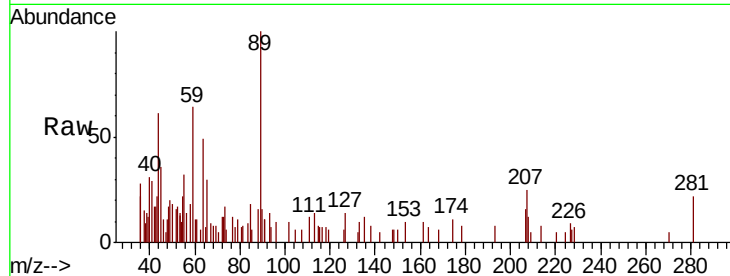


#11

Tert butyl alcohol
 Concen: 1.590 ug/l
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX018579.D
 Acq: 24 Sep 2020 17:46

Instrument :
 MSVOA_X
 ClientSampleId :
 MW202D-20200919

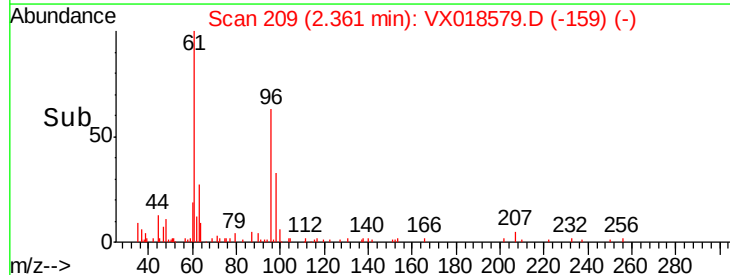
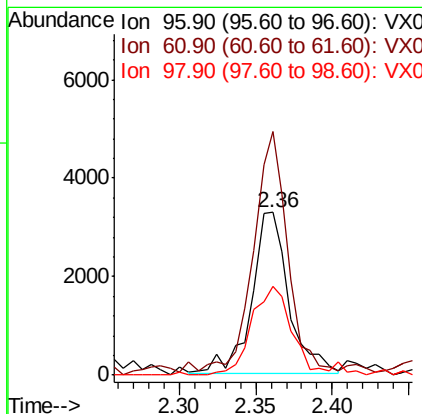
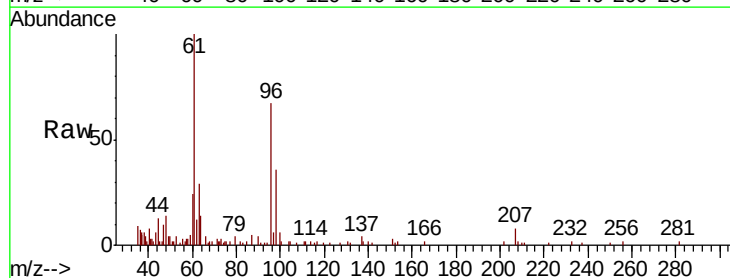
Tot Ion: 59 Resp: 1645
 Ion Ratio Lower Upper
 59 100
 57 5.6 8.2 12.4#

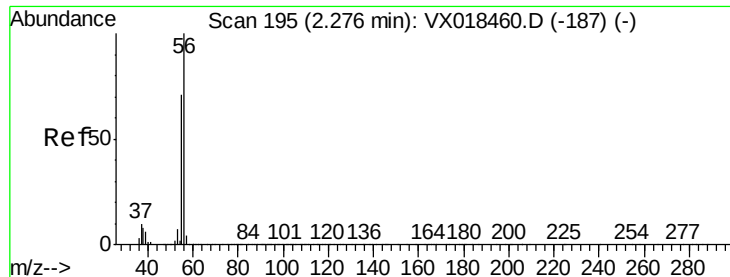


#12

1,1-Dichloroethene
 Concen: 1.356 ug/l
 RT: 2.36 min Scan# 209
 Delta R.T. 0.01 min
 Lab File: VX018579.D
 Acq: 24 Sep 2020 17:46

Tgt Ion: 96 Resp: 5519
 Ion Ratio Lower Upper
 96 100
 61 150.2 142.2 213.4
 98 55.8 52.4 78.6





#13

Acrolein

Concen: 0.453 ug/l

RT: 2.29 min Scan# 198

Delta R.T. 0.02 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

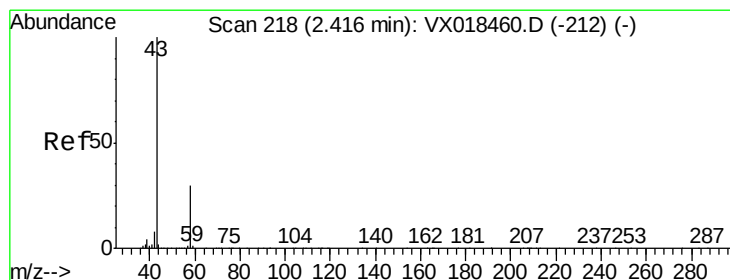
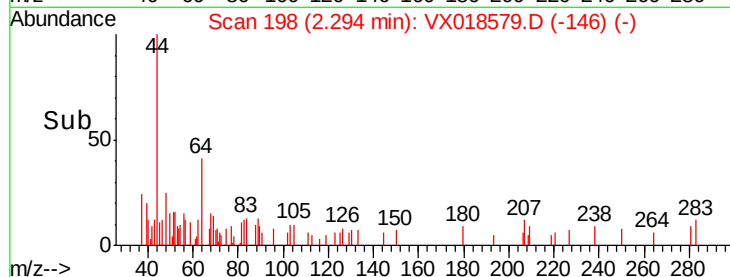
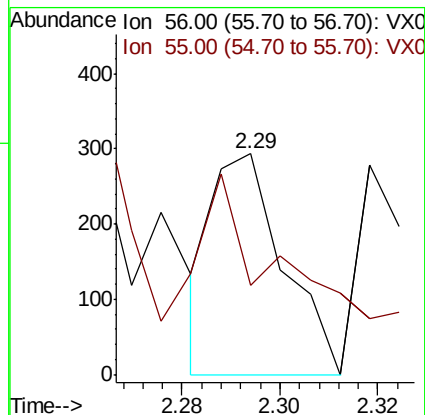
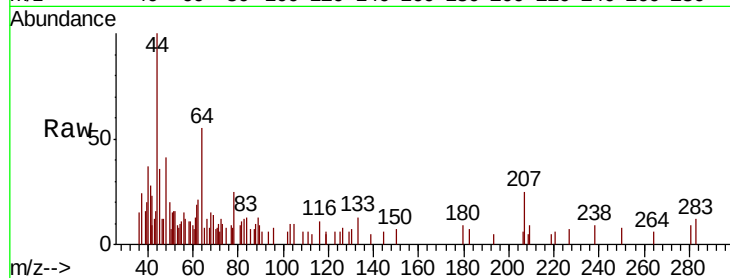
MW202D-20200919

Tot Ion: 56 Resp: 297

Ion Ratio Lower Upper

56 100

55 131.3 58.2 87.4#



#16

Acetone

Concen: 2.283 ug/l

RT: 2.43 min Scan# 221

Delta R.T. 0.02 min

Lab File: VX018579.D

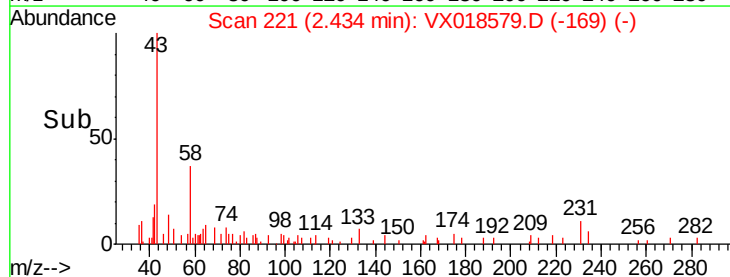
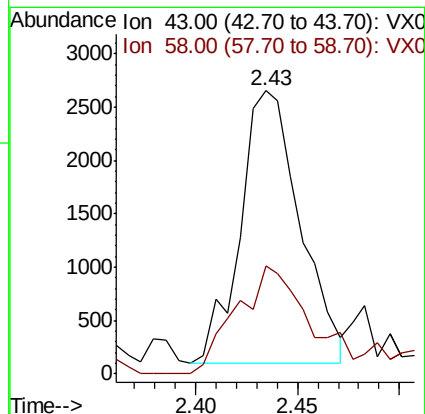
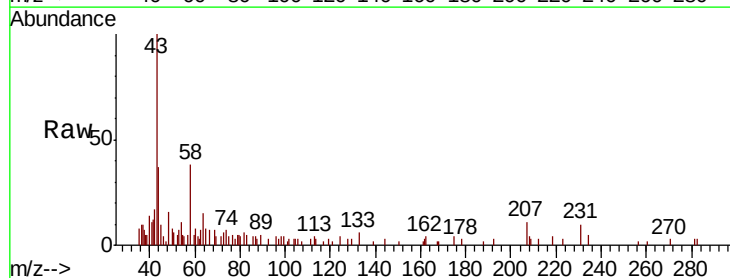
Acq: 24 Sep 2020 17:46

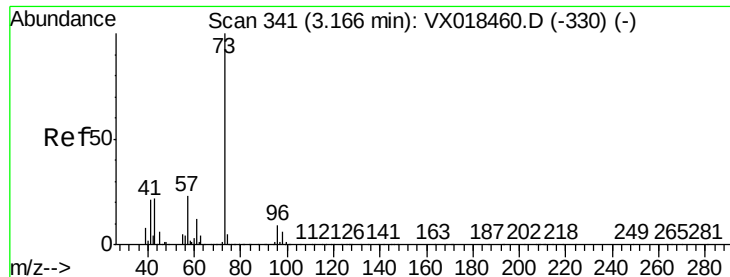
Tgt Ion: 43 Resp: 5192

Ion Ratio Lower Upper

43 100

58 39.5 24.0 36.0#



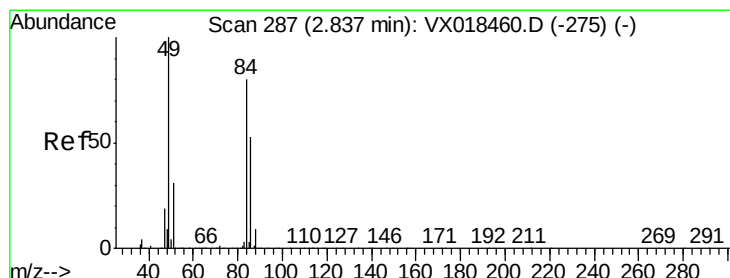
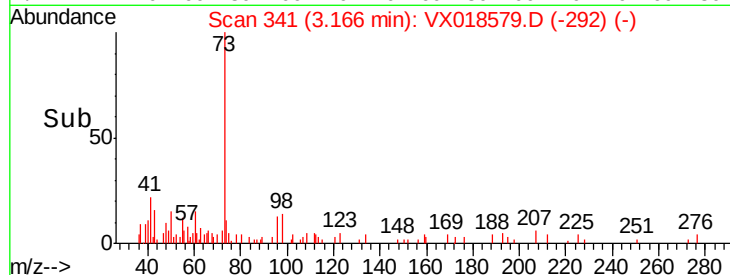
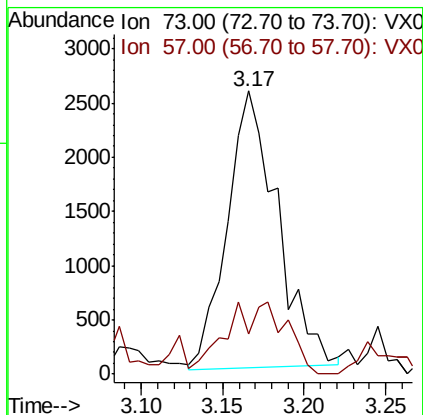
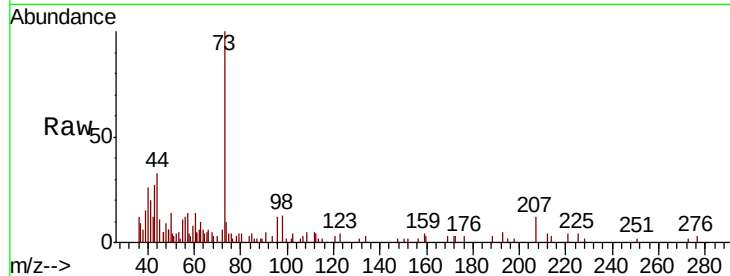


#19

Methvl tert-butyl Ether
 Concen: 0.383 ug/l
 RT: 3.17 min Scan# 341
 Delta R.T. -0.00 min
 Lab File: VX018579.D
 Acq: 24 Sep 2020 17:46

Instrument :
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 ClientSampleId :
 MW202D-20200919

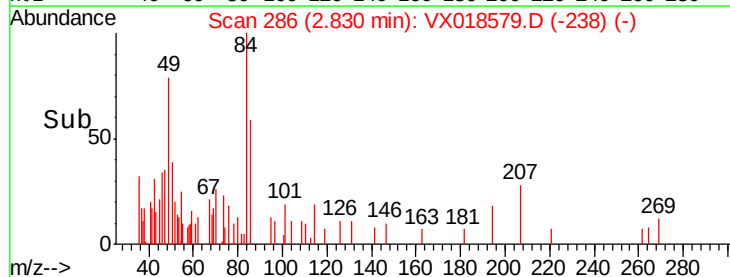
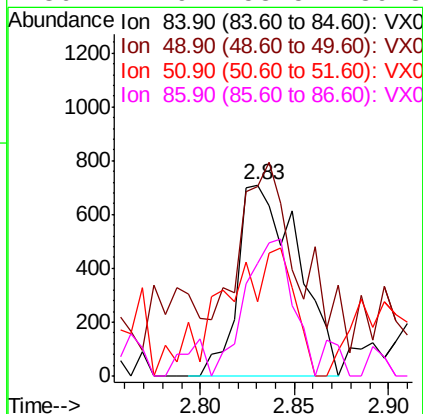
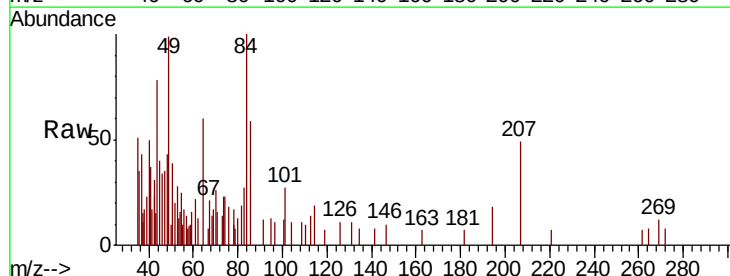
Tot Ion: 73 Resp: 5470
 Ion Ratio Lower Upper
 73 100
 57 14.6 18.0 27.0#

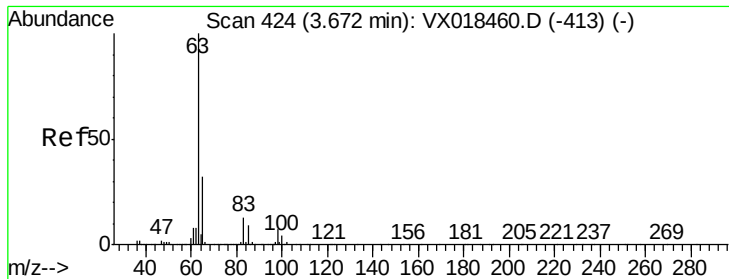


#20

Methylene Chloride
 Concen: 0.316 ug/l
 RT: 2.83 min Scan# 286
 Delta R.T. -0.01 min
 Lab File: VX018579.D
 Acq: 24 Sep 2020 17:46

Tgt Ion: 84 Resp: 1584
 Ion Ratio Lower Upper
 84 100
 49 56.5 100.6 151.0#
 51 25.5 30.9 46.3#
 86 47.9 53.5 80.3#





#24

1,1-Dichloroethane

Concen: 2.840 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

MW202D-20200919

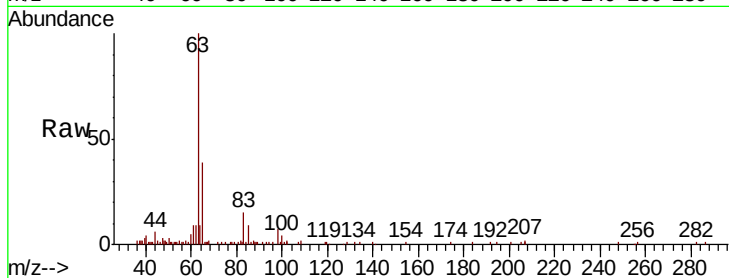
Tot Ion: 63 Resp: 24283

Ion Ratio Lower Upper

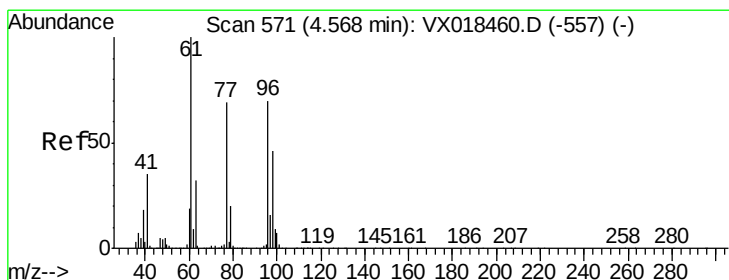
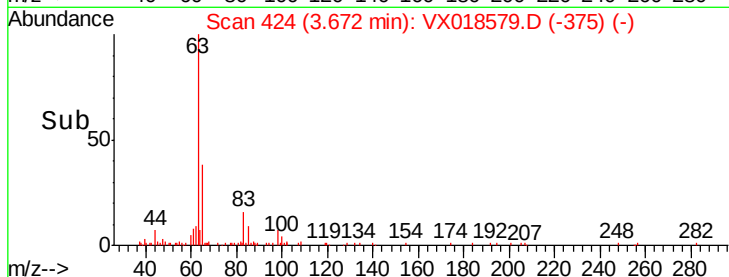
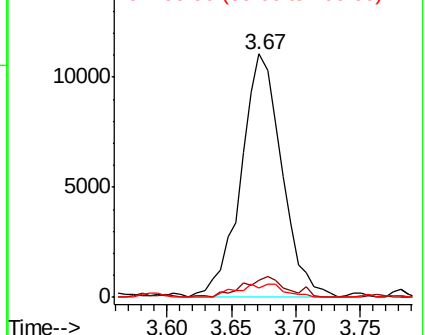
63 100

98 7.2 3.5 10.6

100 3.7 1.9 5.7



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



#27

cis-1,2-Dichloroethene

Concen: 7.059 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

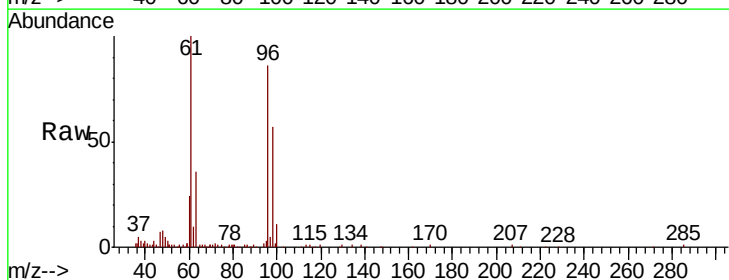
Tgt Ion: 96 Resp: 37431

Ion Ratio Lower Upper

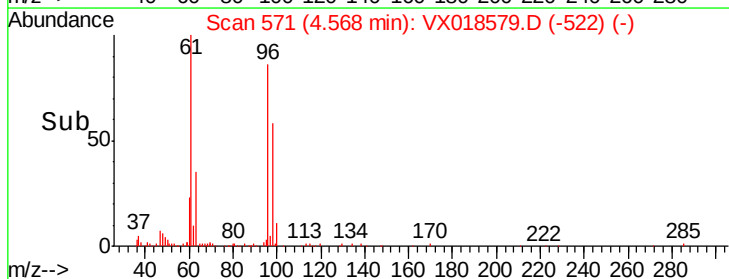
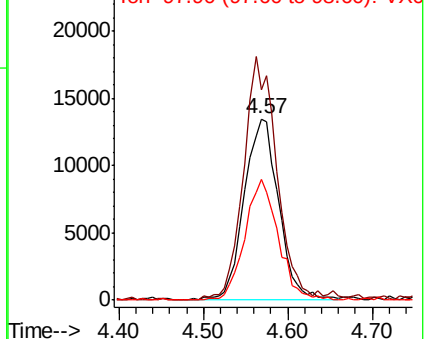
96 100

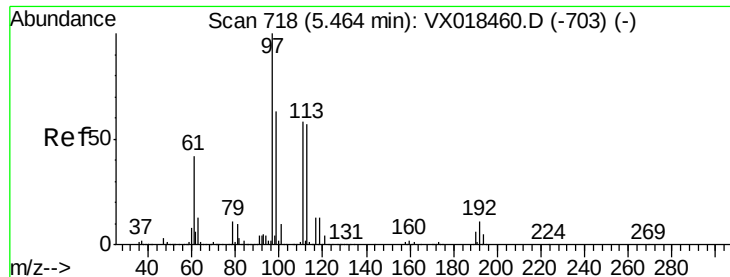
61 129.4 0.0 300.0

98 64.3 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





#32

1,1,1-Trichloroethane

Concen: 0.461 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

MW202D-20200919

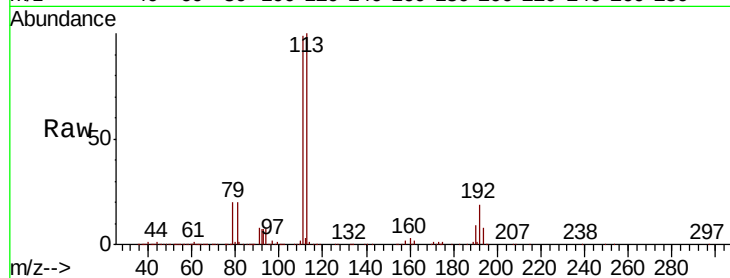
Tot Ion: 97 Resp: 3756

Ion Ratio Lower Upper

97 100

99 0.0 50.5 75.7#

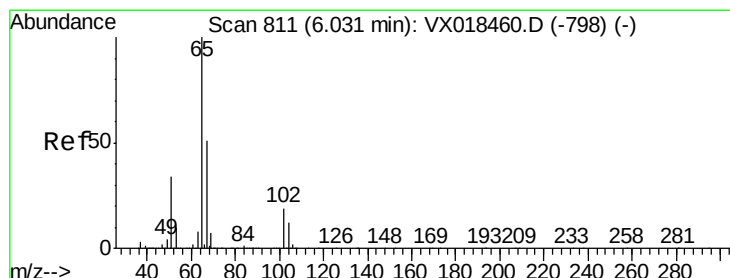
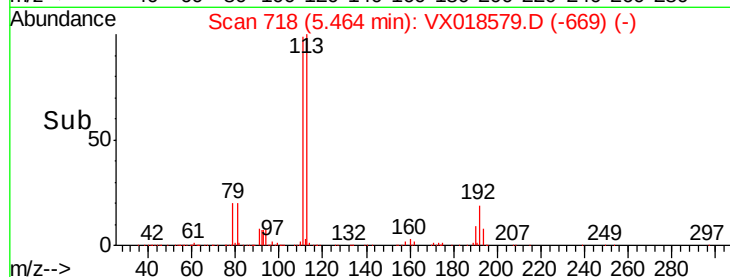
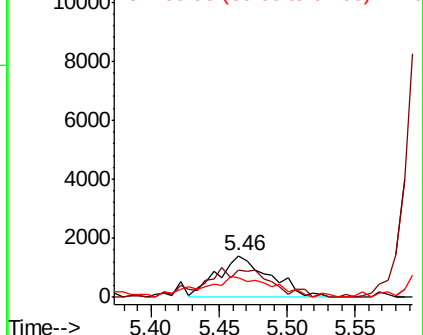
61 65.9 33.4 50.2#



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: 52.702 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018579.D

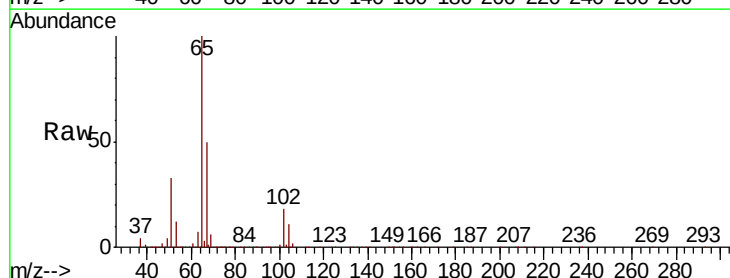
Acq: 24 Sep 2020 17:46

Tgt Ion: 65 Resp: 313367

Ion Ratio Lower Upper

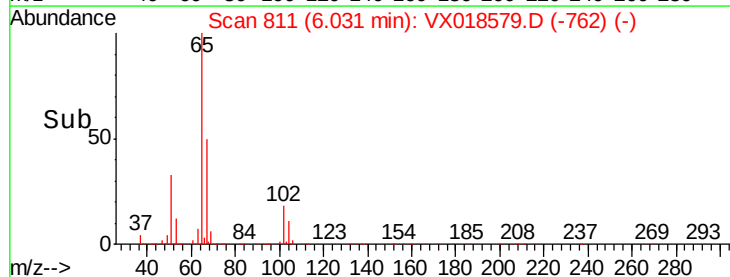
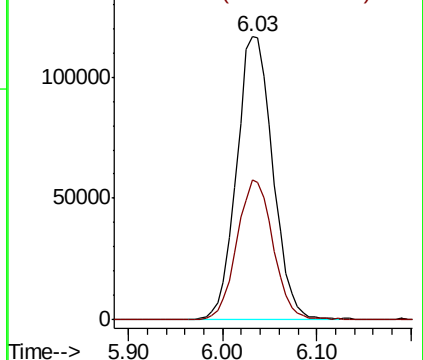
65 100

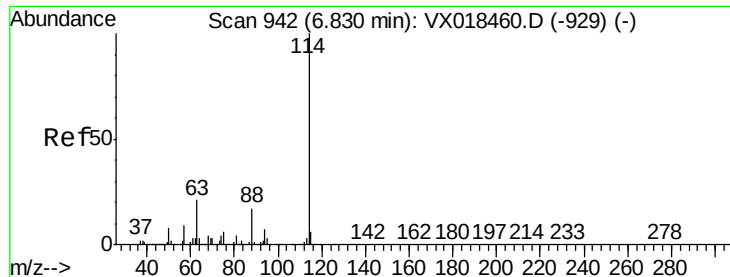
67 49.6 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

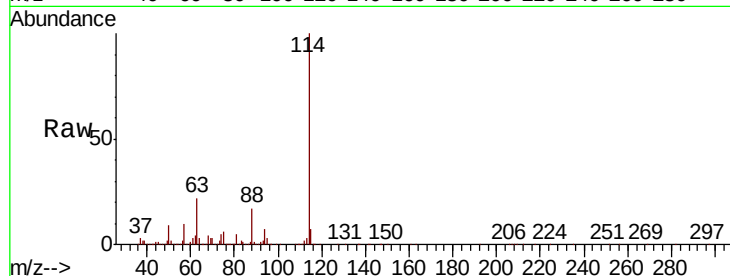




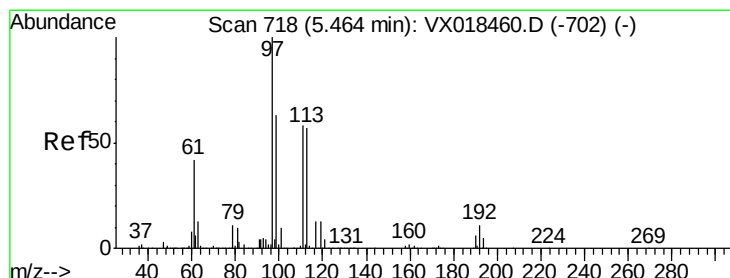
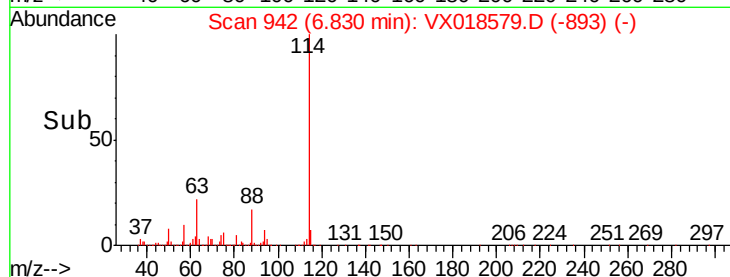
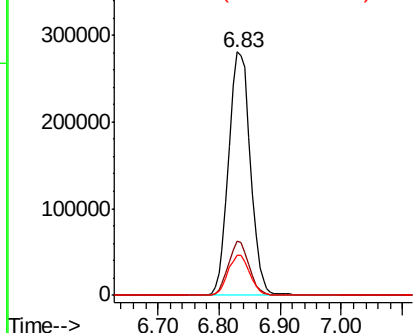
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.83 min Scan# 942
Delta R.T. -0.00 min
Lab File: VX018579.D
Acq: 24 Sep 2020 17:46

Instrument :
MSVOA_X
ClientSampleId :
MW202D-20200919

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	42.8
88	16.5	0.0	33.6

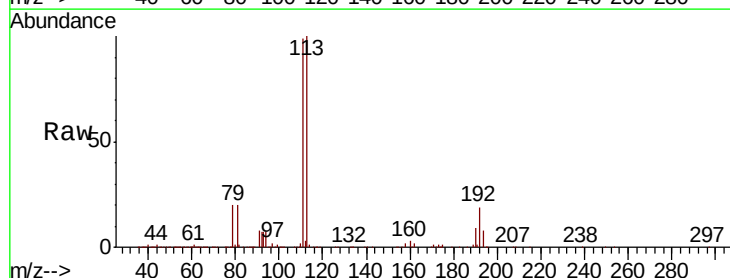


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

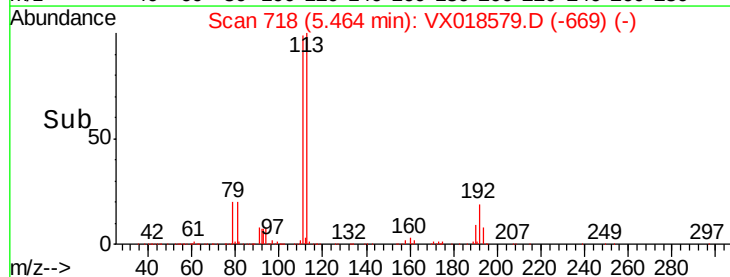
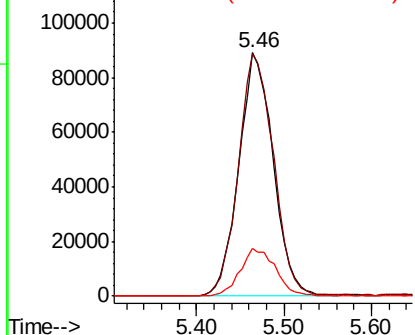


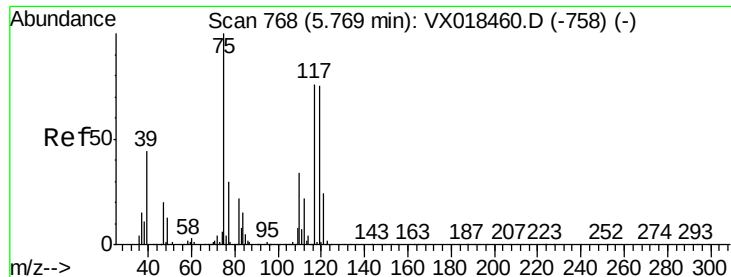
#35
Dibromofluoromethane
Concen: 51.651 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.00 min
Lab File: VX018579.D
Acq: 24 Sep 2020 17:46

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.4	122.2
192	20.2	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: 5.146 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

MW202D-20200919

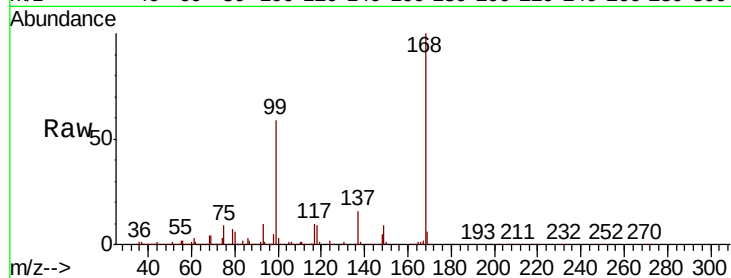
Tot Ion: 75 Resp: 34204

Ion Ratio Lower Upper

75 100

110 7.8 17.6 52.8#

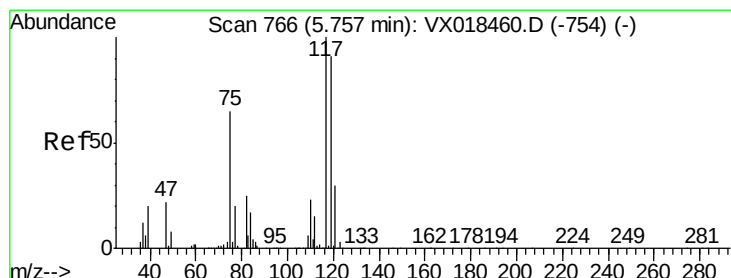
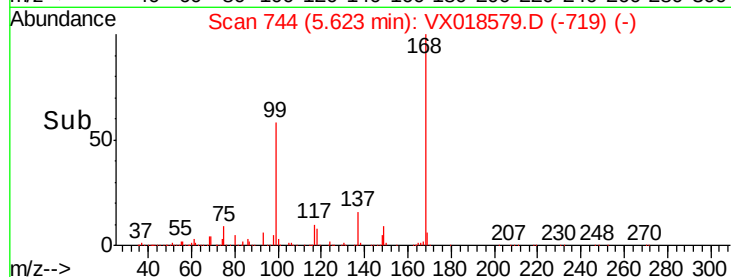
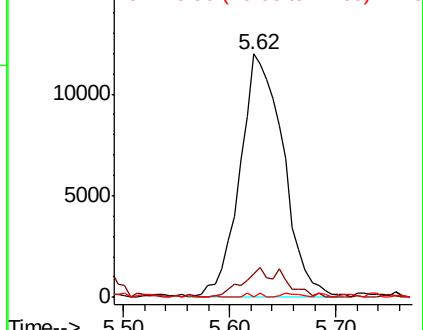
77 0.5 25.0 37.6#



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: 6.027 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

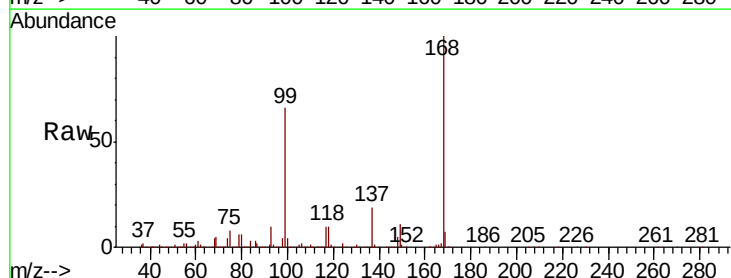
Tgt Ion:117 Resp: 44363

Ion Ratio Lower Upper

117 100

119 4.8 72.3 108.5#

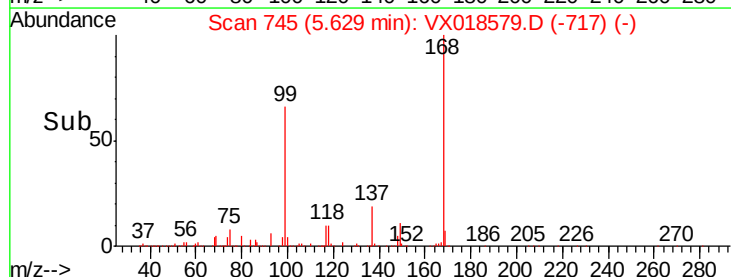
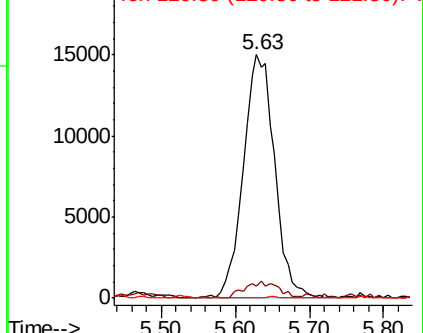
121 0.0 23.8 35.8#

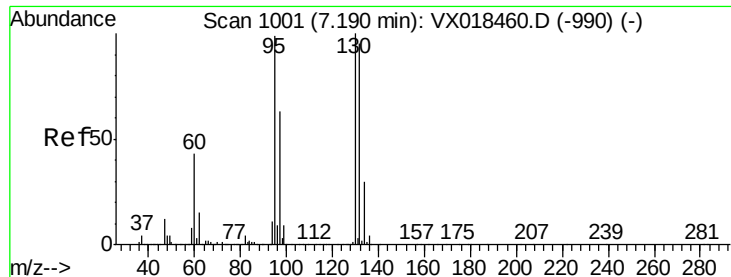


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 46.279 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

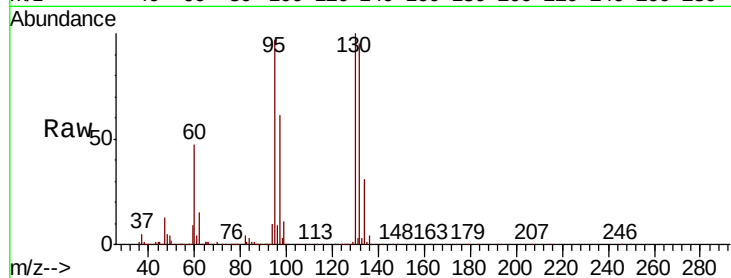
MW202D-20200919

Tot Ion:130 Resp: 255182

Ion Ratio Lower Upper

130 100

95 97.4 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

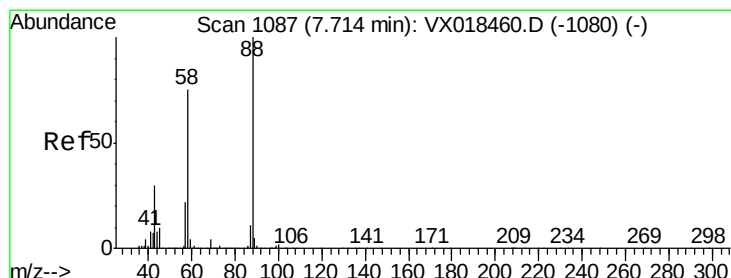
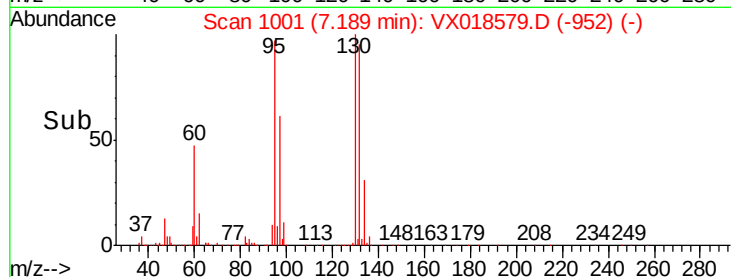
7.19

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 1.605 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

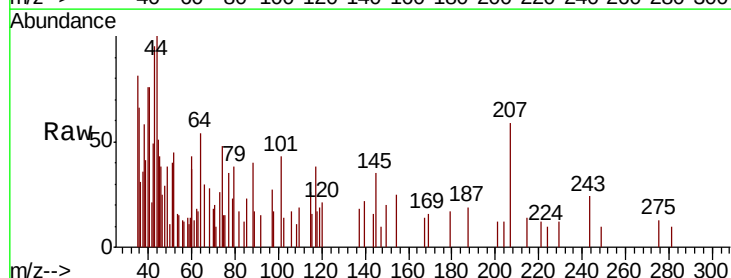
Tgt Ion: 88 Resp: 152

Ion Ratio Lower Upper

88 100

43 136.8 29.9 44.9#

58 17.8 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

800

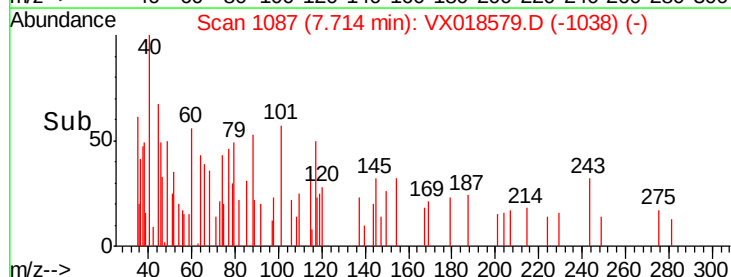
600

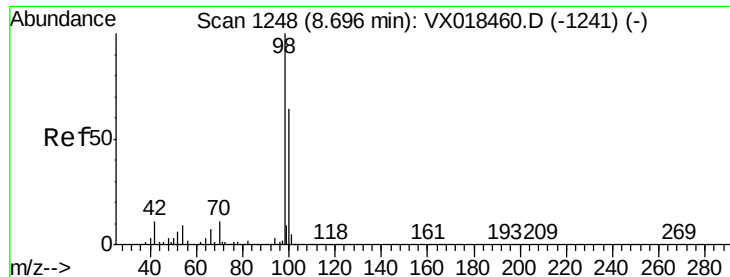
400

200

0

Time-->





#50

Toluene-d8

Concen: 49.584 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

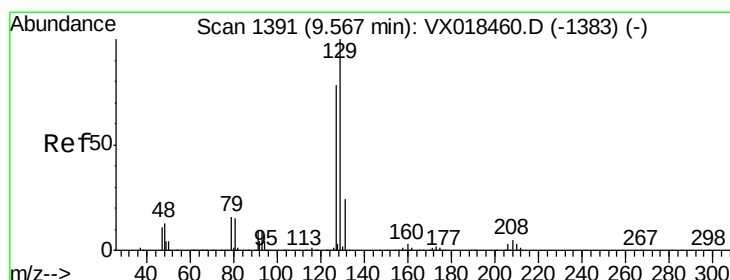
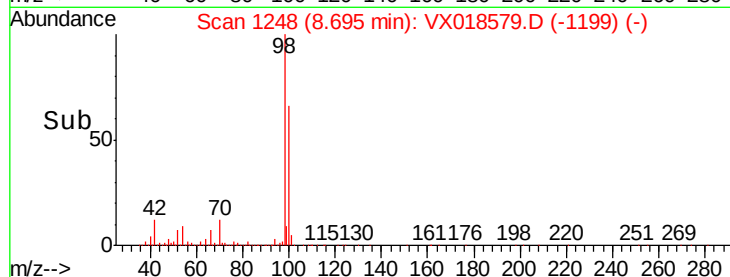
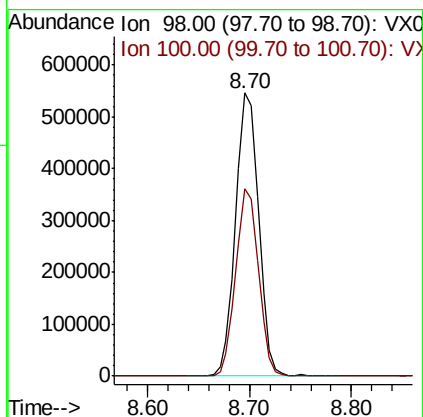
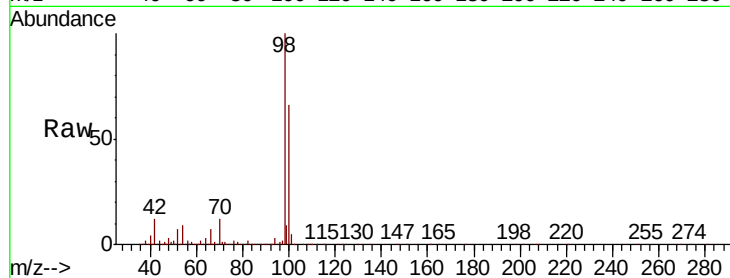
MW202D-20200919

Tot Ion: 98 Resp: 852841

Ion Ratio Lower Upper

98 100

100 65.4 51.7 77.5



#60

Dibromochloromethane

Concen: 12.088 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX018579.D

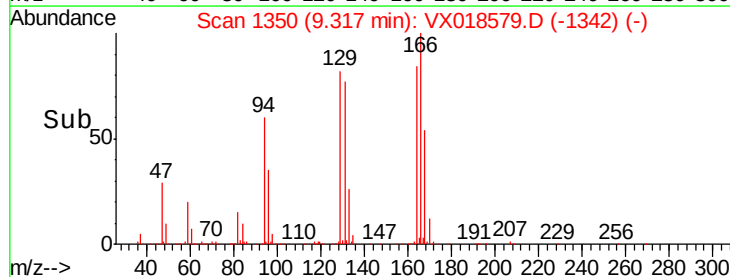
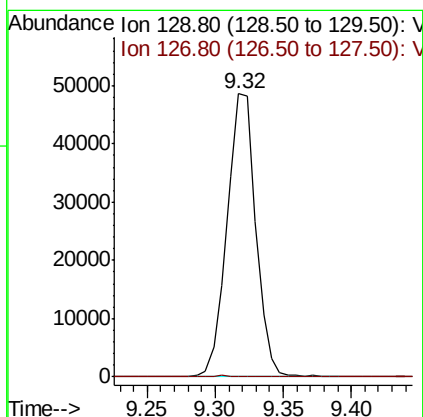
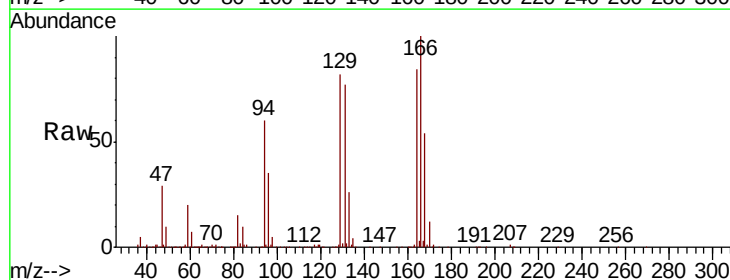
Acq: 24 Sep 2020 17:46

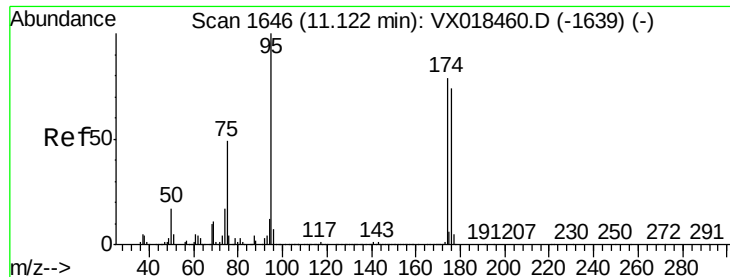
Tgt Ion: 129 Resp: 71688

Ion Ratio Lower Upper

129 100

127 0.4 39.0 117.0#





#62

4-Bromofluorobenzene

Concen: 46.905 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

MW202D-20200919

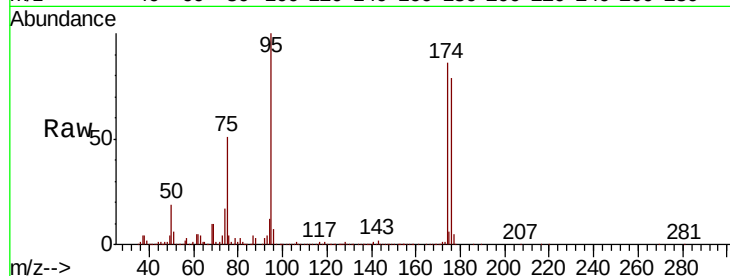
Tot Ion: 95 Resp: 320910

Ion Ratio Lower Upper

95 100

174 82.6 0.0 161.4

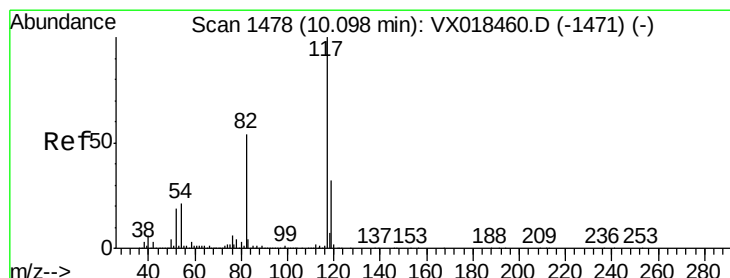
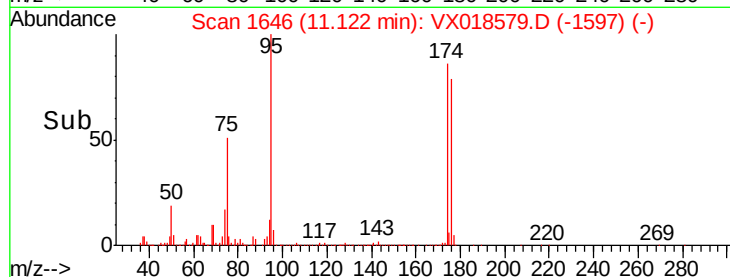
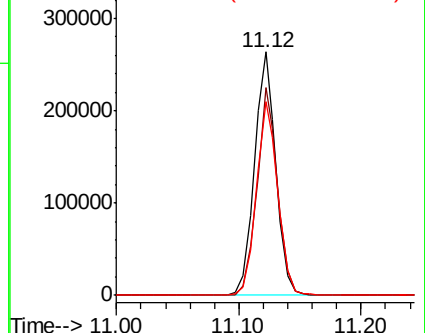
176 80.1 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

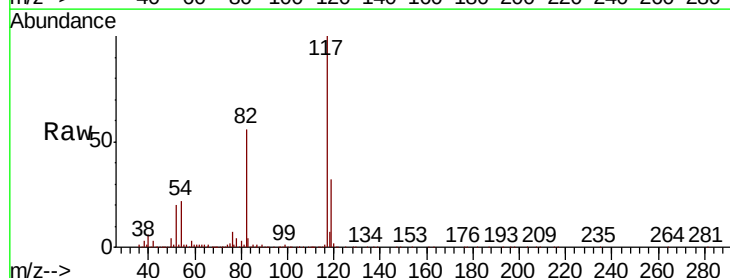
Tgt Ion: 117 Resp: 677587

Ion Ratio Lower Upper

117 100

82 56.0 43.3 64.9

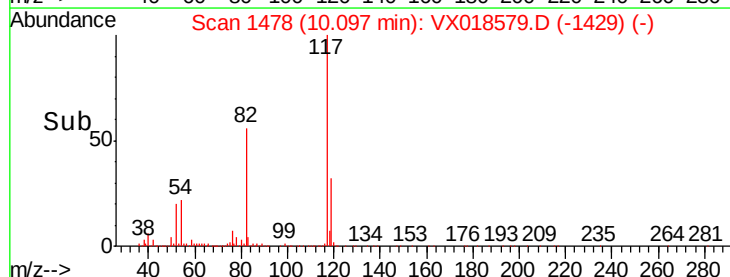
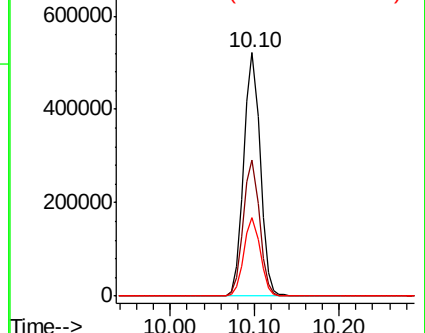
119 32.3 25.9 38.9

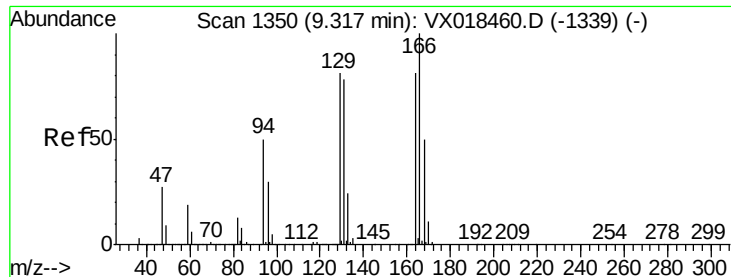


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

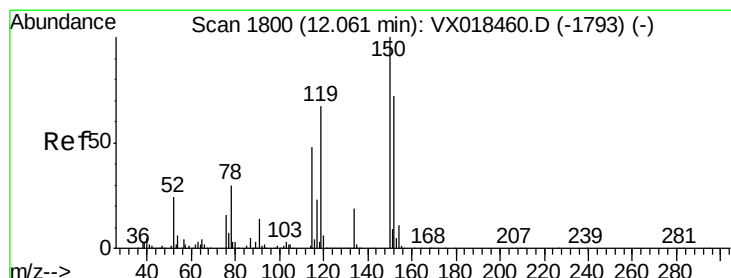
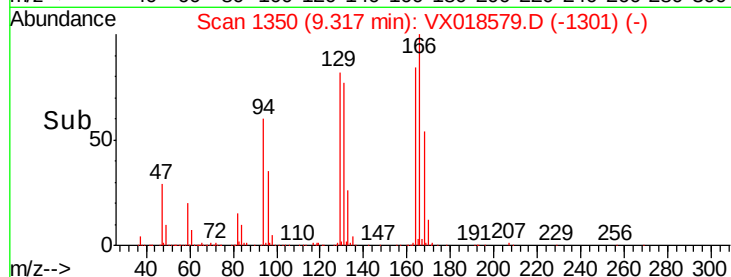
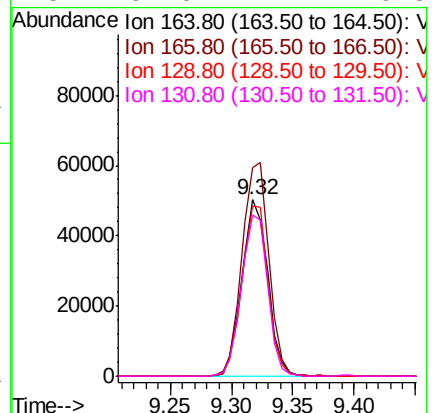
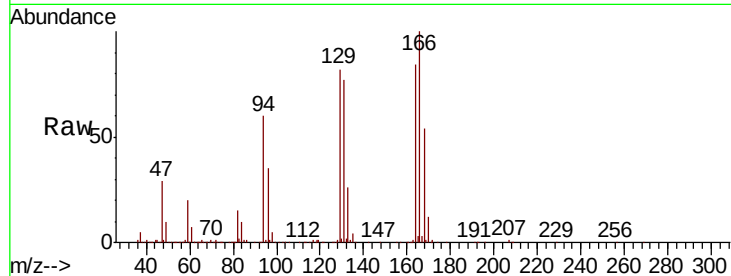




#64
Tetrachloroethene
Concen: 13.834 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX018579.D
Acq: 24 Sep 2020 17:46

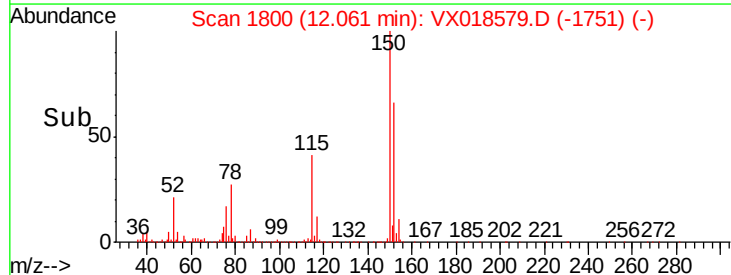
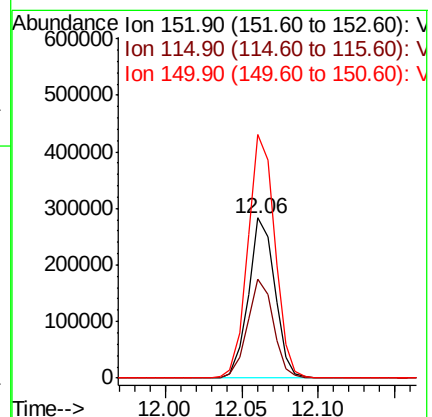
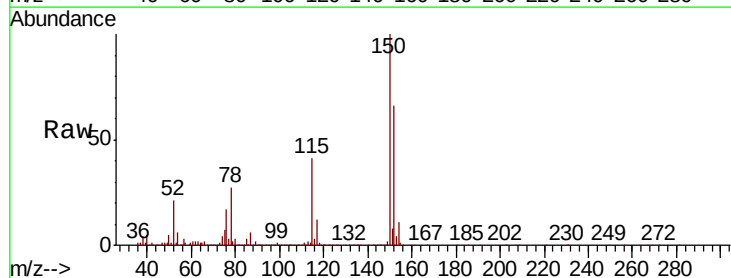
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20200919

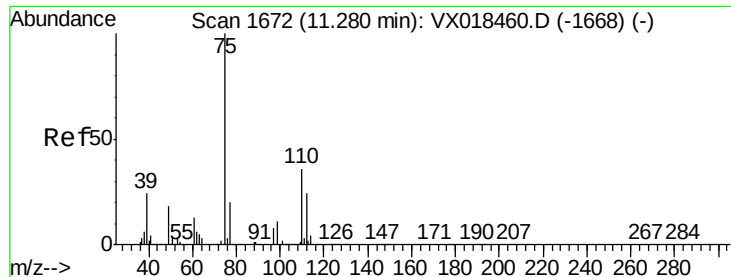
Tot Ion:164 Resp: 73800
Ion Ratio Lower Upper
164 100
166 118.5 99.3 148.9
129 96.4 80.7 121.1
131 91.0 77.2 115.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018579.D
Acq: 24 Sep 2020 17:46

Tgt Ion:152 Resp: 339483
Ion Ratio Lower Upper
152 100
115 60.8 41.8 125.4
150 155.6 0.0 342.4





#76

1,2,3-Trichloropropane

Concen: 23.531 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Instrument :

MSVOA_X

ClientSampleId :

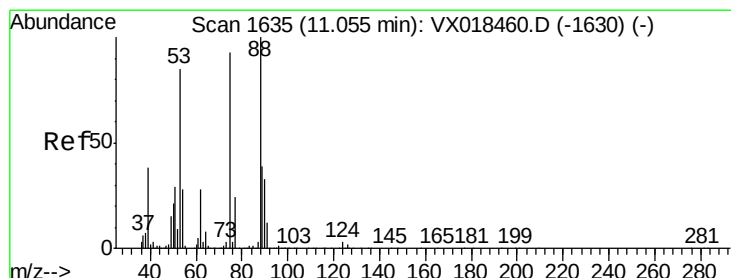
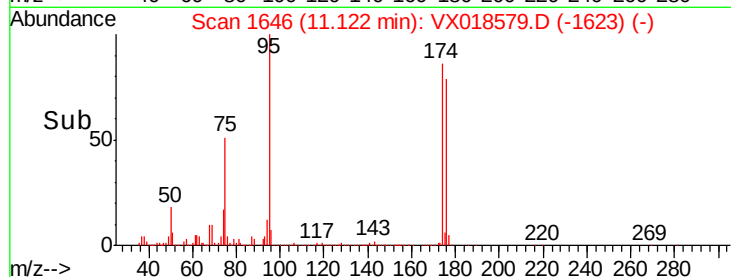
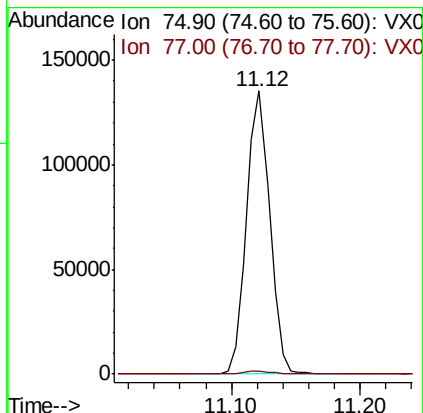
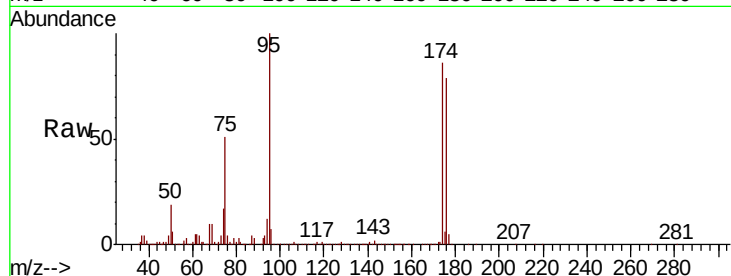
MW202D-20200919

Tot Ion: 75 Resp: 167871

Ion Ratio Lower Upper

75 100

77 1.2 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.298 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018579.D

Acq: 24 Sep 2020 17:46

Tgt Ion: 75 Resp: 167871

Ion Ratio Lower Upper

75 100

53 0.7 74.6 111.8#

89 0.0 36.2 54.4#

