

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092420\
 Data File : VX018576.D
 Acq On : 24 Sep 2020 16:39
 Operator : JC/SP
 Sample : L4118-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW203D-20200919

Quant Time: Sep 25 01:07:51 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	432579	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	705100	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	699924	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	340414	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	318851	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
35) Dibromofluoromethane	5.47	113	251874	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
50) Toluene-d8	8.70	98	874479	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
62) 4-Bromofluorobenzene	11.12	95	326344	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	

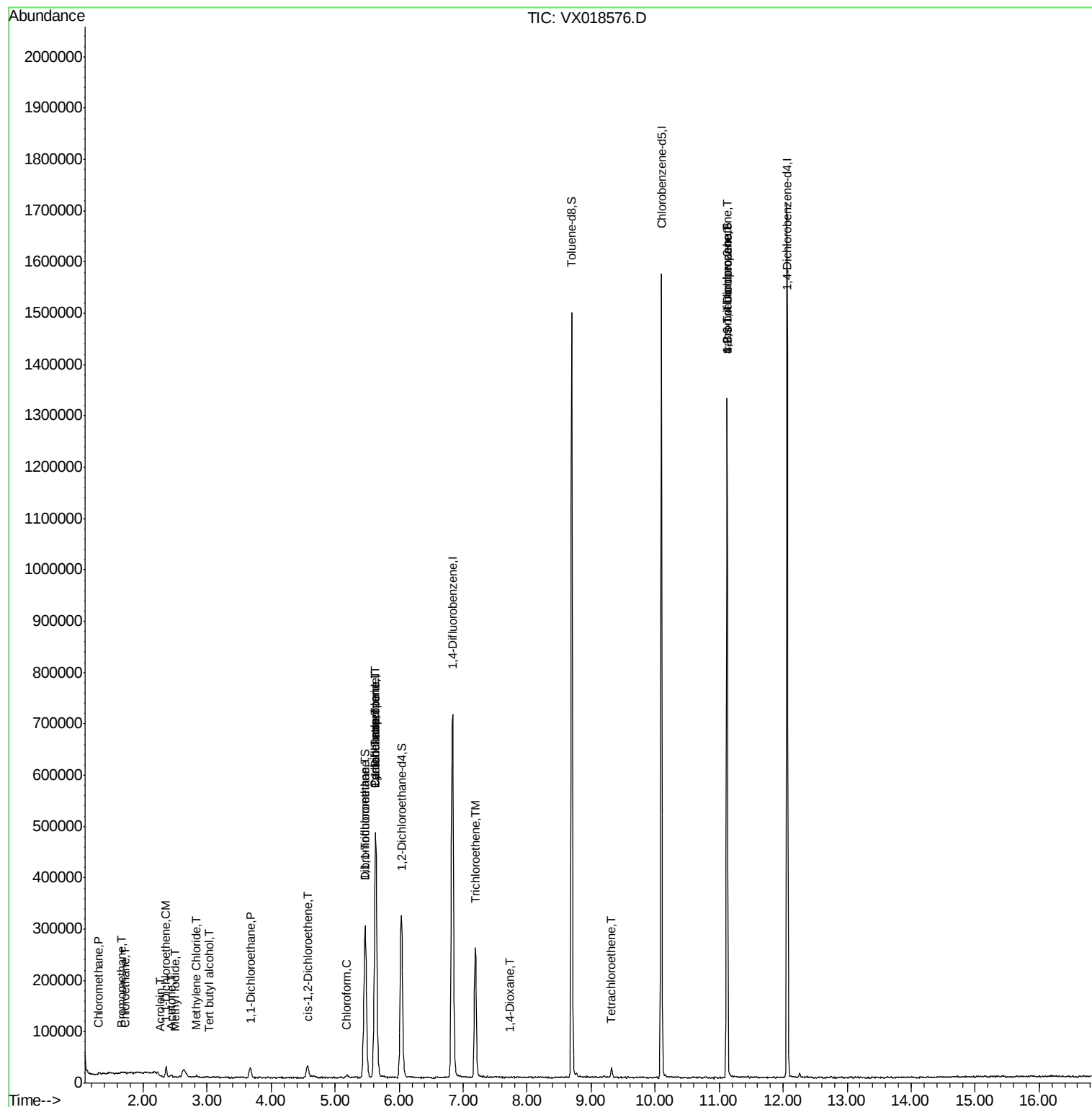
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	2346	0.489	ug/l #	82
5) Bromomethane	1.66	94	783	0.251	ug/l #	42
6) Chloroethane	1.73	64	867	0.298	ug/l #	86
10) Methyl Iodide	2.50	142	123	4.936	ug/l #	1
11) Tert butyl alcohol	3.04	59	221	0.208	ug/l #	1
12) 1,1-Dichloroethene	2.36	96	6633	1.583	ug/l	90
13) Acrolein	2.27	56	444	0.659	ug/l #	78
16) Acetone	2.43	43	5614	2.399	ug/l	98
20) Methylene Chloride	2.84	84	2071	0.401	ug/l #	70
24) 1,1-Dichloroethane	3.67	63	22986	2.612	ug/l	96
27) cis-1,2-Dichloroethene	4.57	96	15197	2.785	ug/l	89
30) Chloroform	5.18	83	6186	0.693	ug/l	97
31) Cyclohexane	5.63	56	10713	1.447	ug/l #	8
32) 1,1,1-Trichloroethane	5.46	97	9686	1.156	ug/l #	45
36) 1,1-Dichloropropene	5.63	75	34163	4.992	ug/l #	52
38) Carbon Tetrachloride	5.63	117	46008	6.070	ug/l #	20
44) Trichloroethene	7.19	130	96013	16.910	ug/l	95
49) 1,4-Dioxane	7.73	88	184	1.887	ug/l #	1
64) Tetrachloroethene	9.32	164	3672	0.666	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	169412	23.682	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	169412	60.685	ug/l #	12

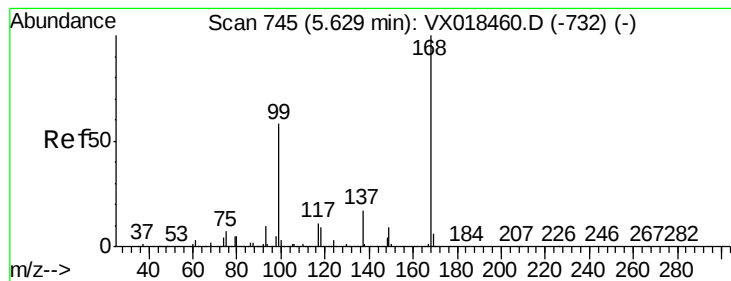
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

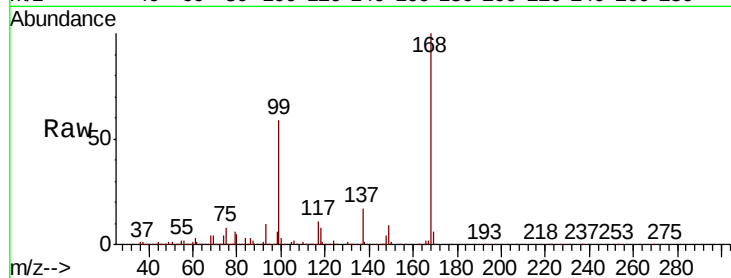
MW203D-20200919

Tot Ion:168 Resp: 432579

Ion Ratio Lower Upper

168 100

99 58.8 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

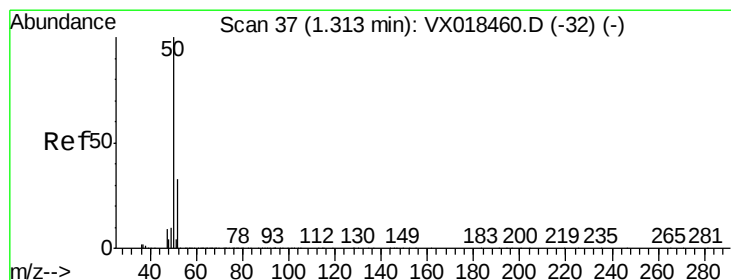
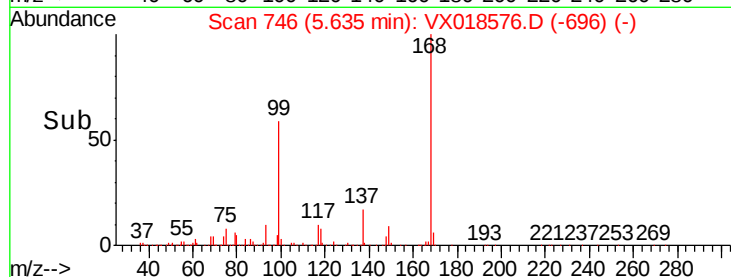
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.489 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018576.D

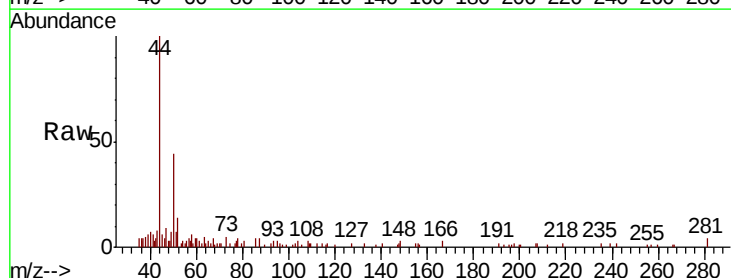
Acq: 24 Sep 2020 16:39

Tgt Ion: 50 Resp: 2346

Ion Ratio Lower Upper

50 100

52 23.0 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

2000

1500

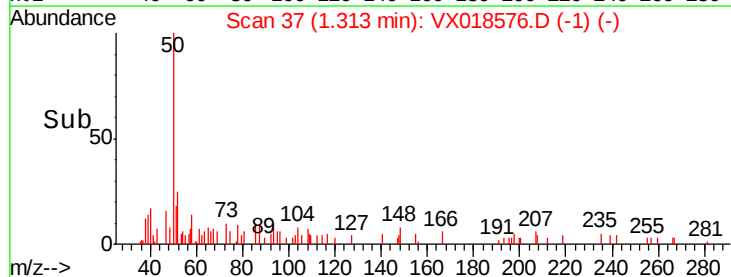
1000

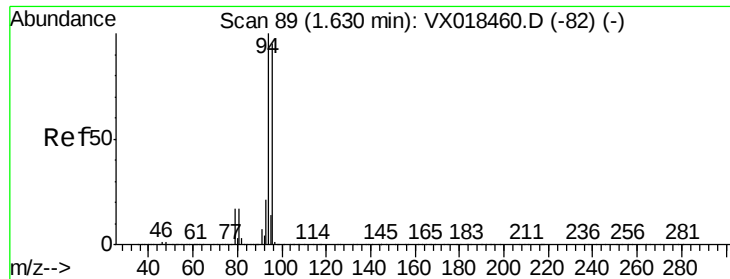
500

0

Time-->

1.28 1.30 1.32 1.34





#5

Bromomethane

Concen: 0.251 ug/l

RT: 1.66 min Scan# 94

Delta R.T. 0.03 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

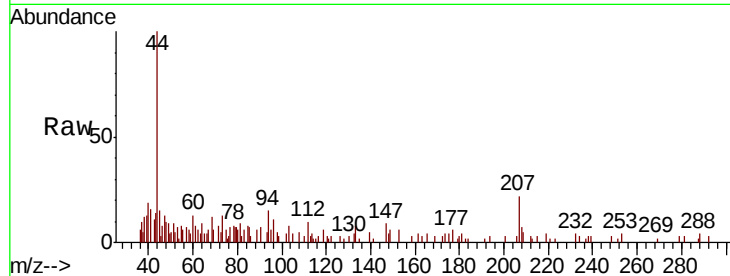
MW203D-20200919

Tot Ion: 94 Resp: 783

Ion Ratio Lower Upper

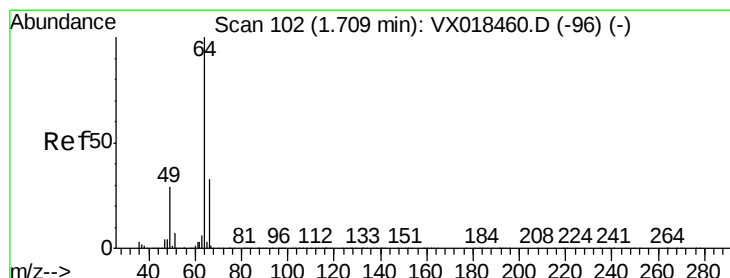
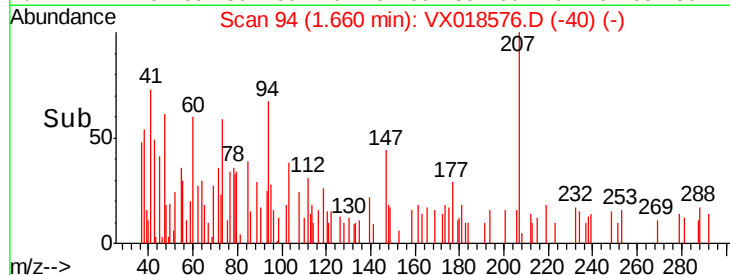
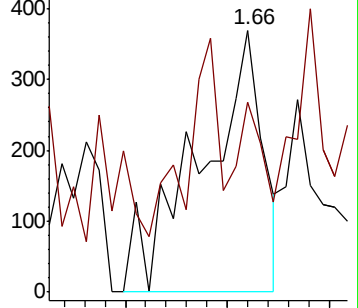
94 100

96 37.9 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.298 ug/l

RT: 1.73 min Scan# 106

Delta R.T. 0.02 min

Lab File: VX018576.D

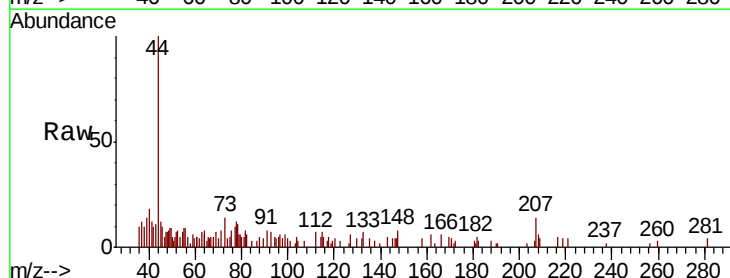
Acq: 24 Sep 2020 16:39

Tgt Ion: 64 Resp: 867

Ion Ratio Lower Upper

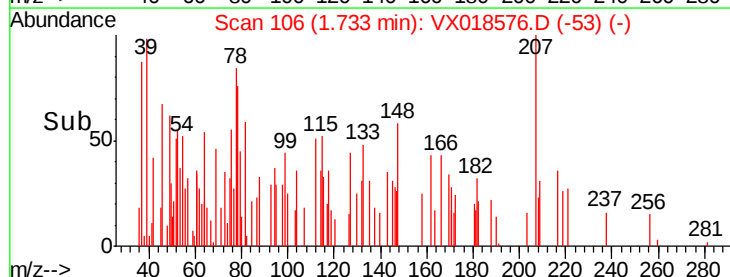
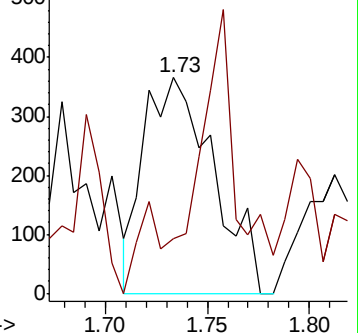
64 100

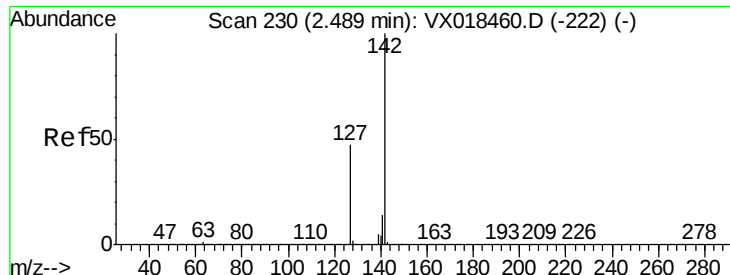
66 25.1 26.2 39.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

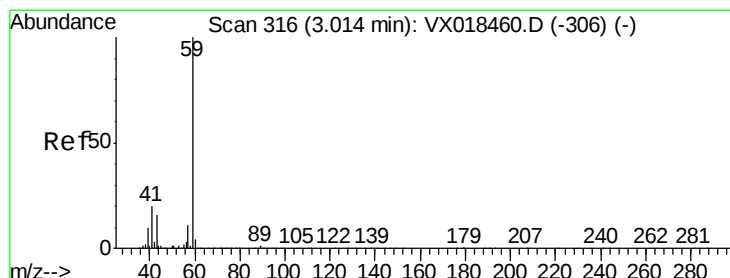
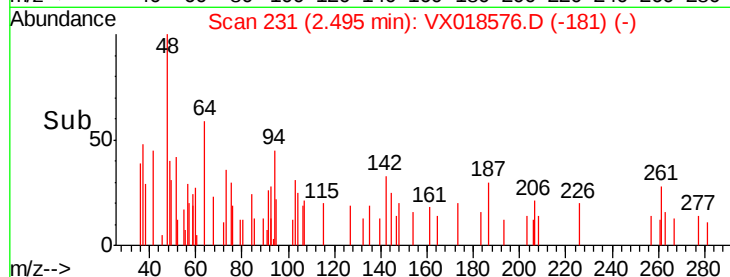
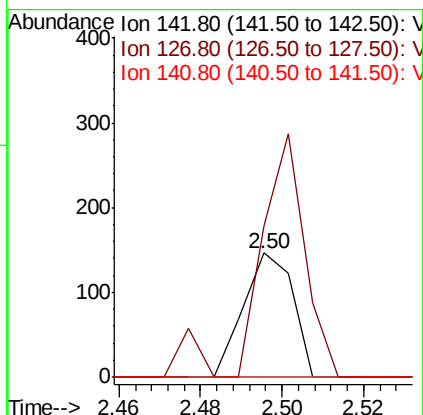
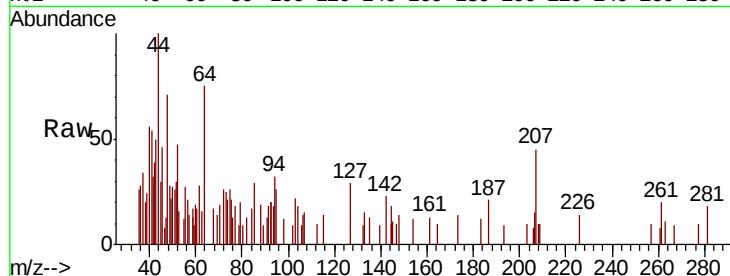




#10
Methyl Iodide
Concen: 4.936 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX018576.D
Acq: 24 Sep 2020 16:39

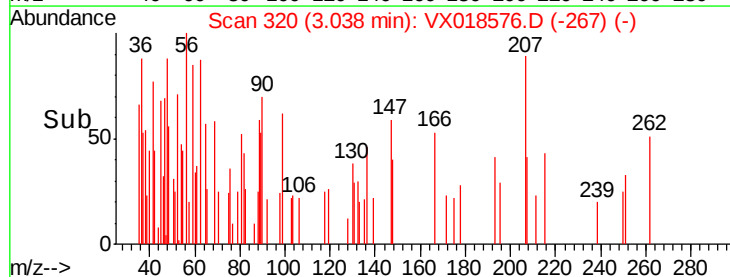
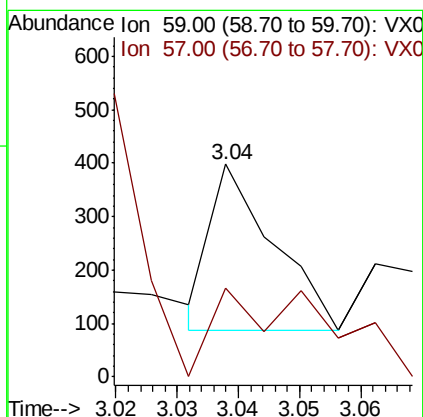
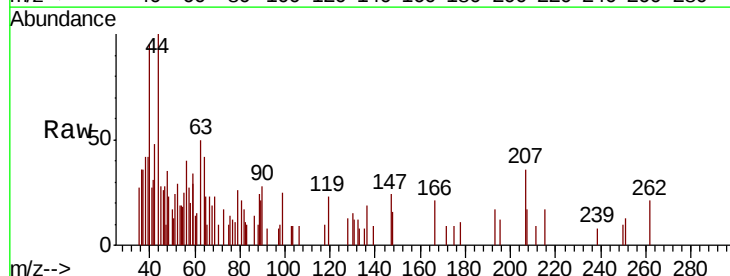
Instrument :
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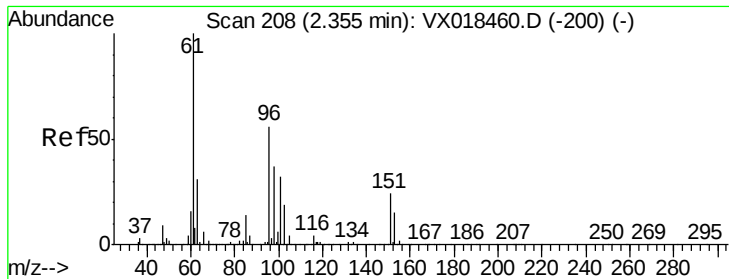
Tot Ion:142 Resp: 123
Ion Ratio Lower Upper
142 100
127 182.1 36.0 54.0#
141 0.0 11.9 17.9#



#11
Tert butyl alcohol
Concen: 0.208 ug/l
RT: 3.04 min Scan# 320
Delta R.T. 0.02 min
Lab File: VX018576.D
Acq: 24 Sep 2020 16:39

Tgt Ion: 59 Resp: 221
Ion Ratio Lower Upper
59 100
57 96.8 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 1.583 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

MW203D-20200919

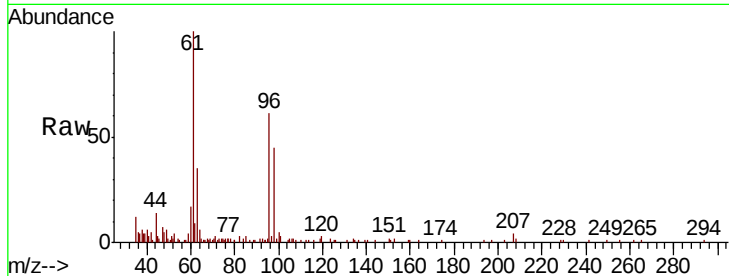
Tot Ion: 96 Resp: 6633

Ion Ratio Lower Upper

96 100

61 165.4 142.2 213.4

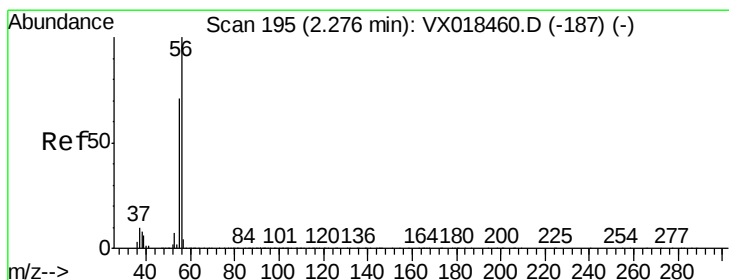
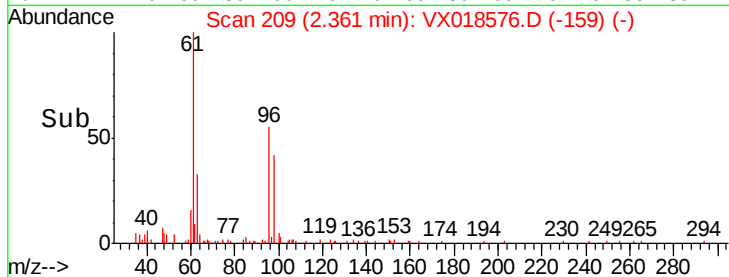
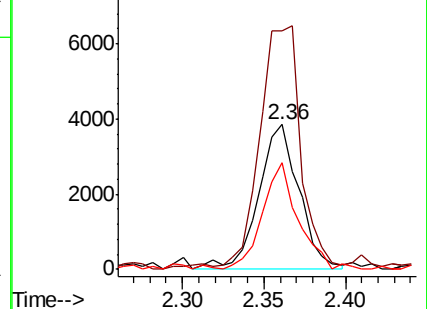
98 75.7 52.4 78.6



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: 0.659 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX018576.D

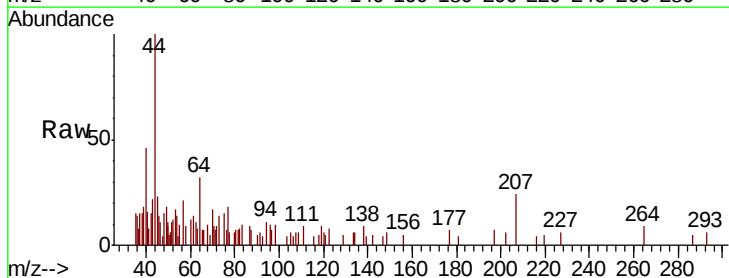
Acq: 24 Sep 2020 16:39

Tgt Ion: 56 Resp: 444

Ion Ratio Lower Upper

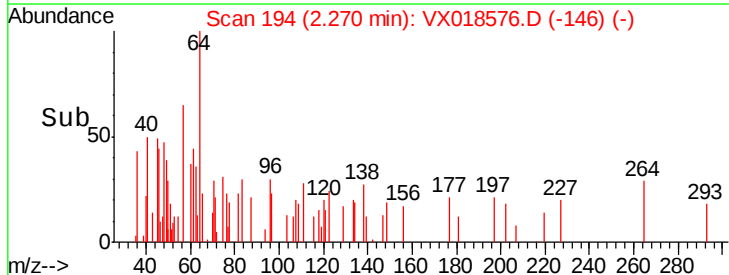
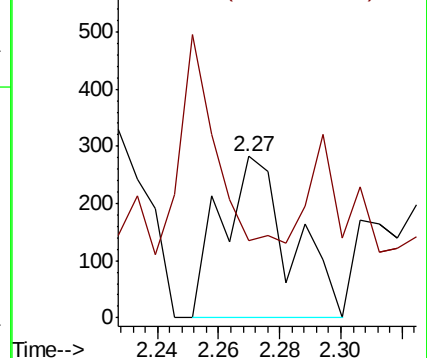
56 100

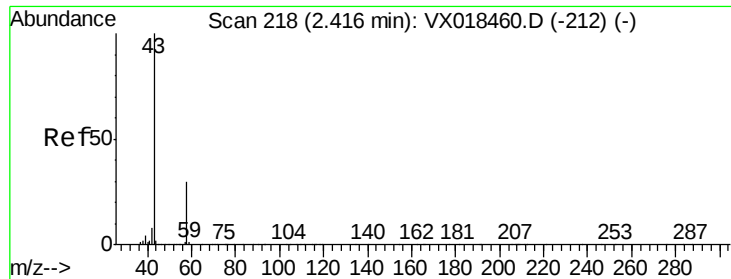
55 91.4 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

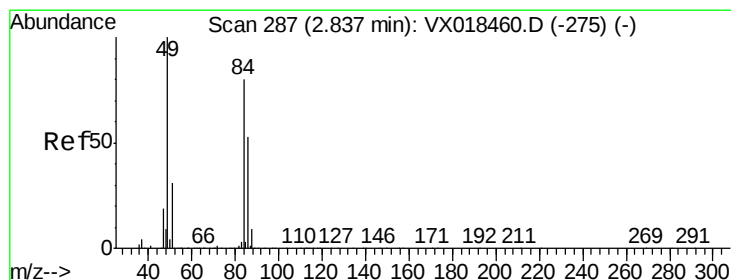
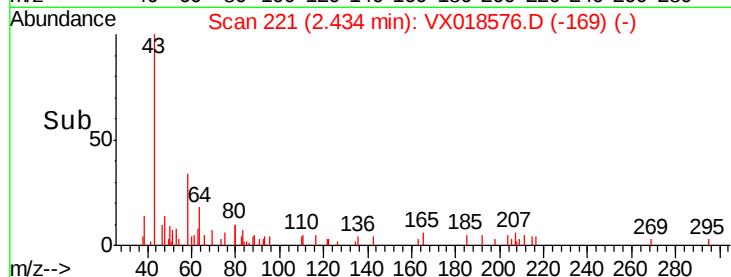
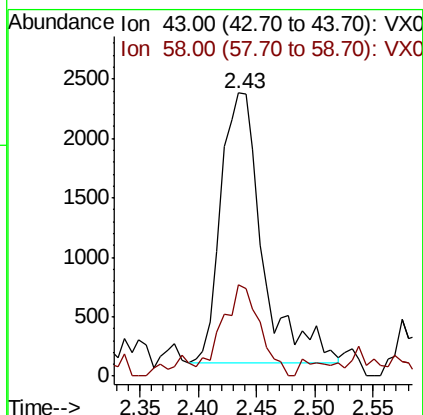
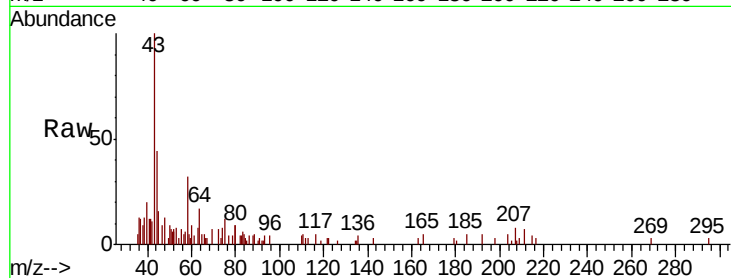




#16
Acetone
Concen: 2.399 ug/l
RT: 2.43 min Scan# 221
Delta R.T. 0.02 min
Lab File: VX018576.D
Acq: 24 Sep 2020 16:39

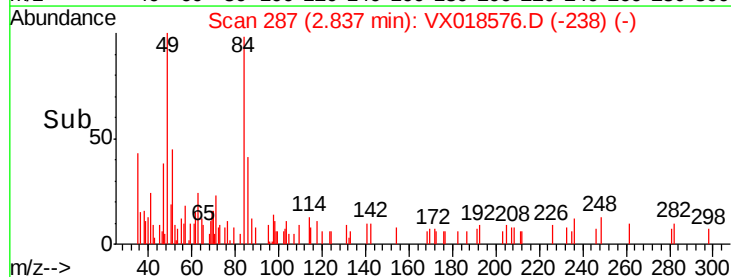
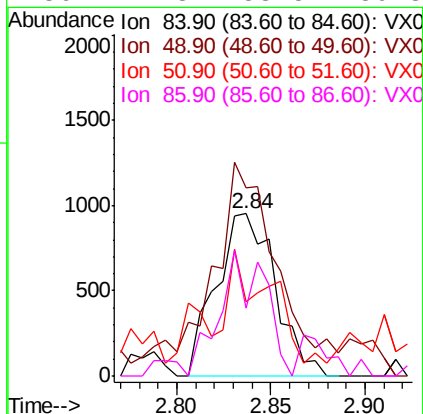
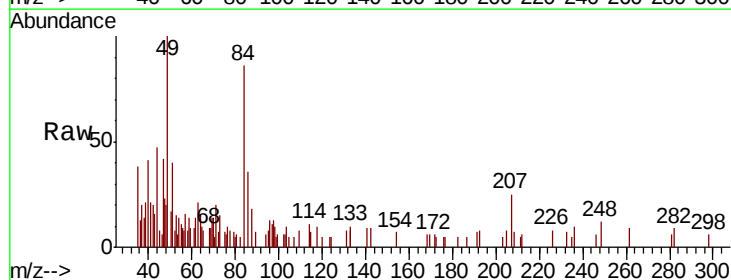
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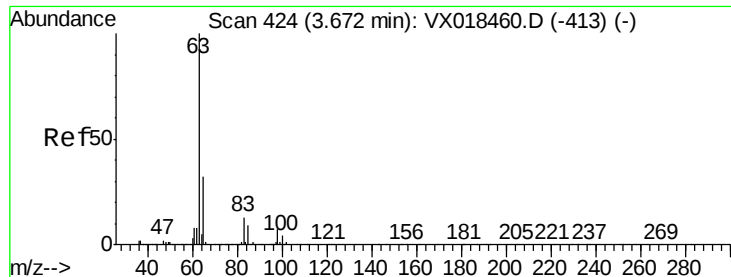
Tot Ion: 43 Resp: 5614
Ion Ratio Lower Upper
43 100
58 28.9 24.0 36.0



#20
Methylene Chloride
Concen: 0.401 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX018576.D
Acq: 24 Sep 2020 16:39

Tgt Ion: 84 Resp: 2071
Ion Ratio Lower Upper
84 100
49 101.7 100.6 151.0
51 5.6 30.9 46.3#
86 41.8 53.5 80.3#





#24

1,1-Dichloroethane

Concen: 2.612 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

MW203D-20200919

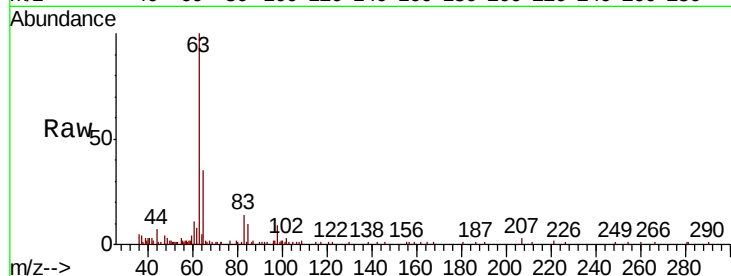
Tot Ion: 63 Resp: 22986

Ion Ratio Lower Upper

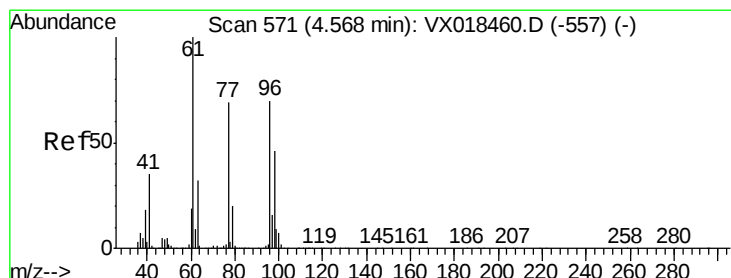
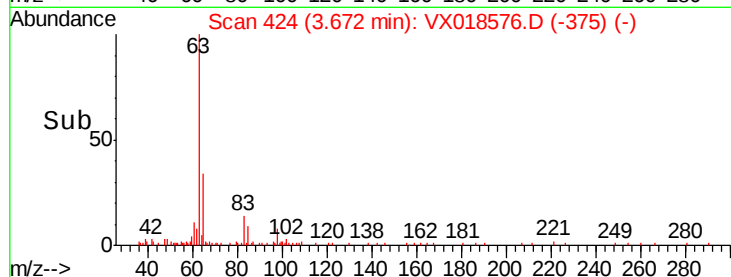
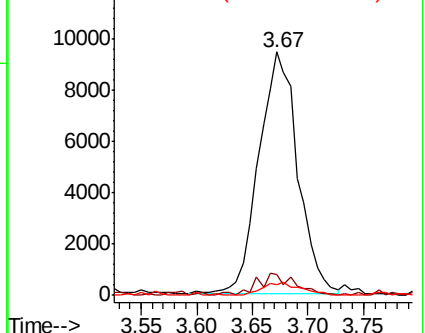
63 100

98 8.7 3.5 10.6

100 4.5 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: 2.785 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

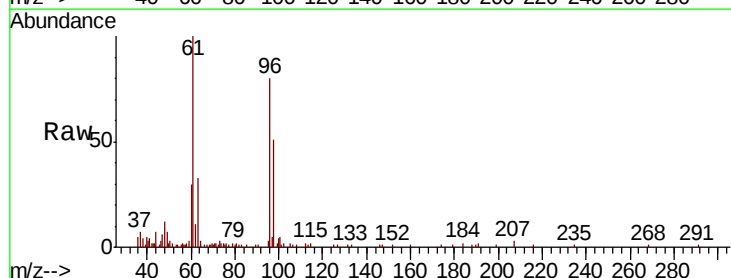
Tgt Ion: 96 Resp: 15197

Ion Ratio Lower Upper

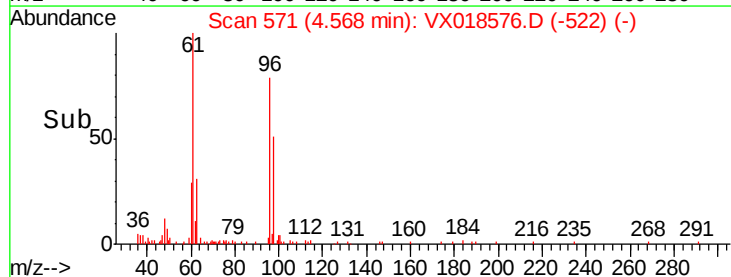
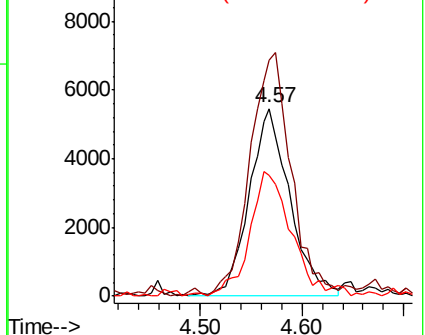
96 100

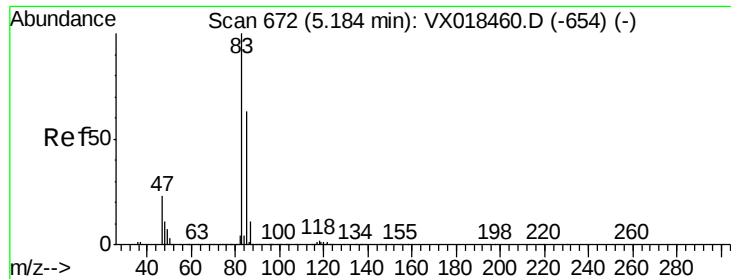
61 130.4 0.0 300.0

98 66.6 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

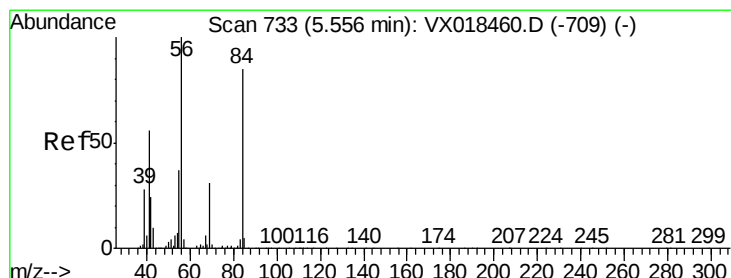
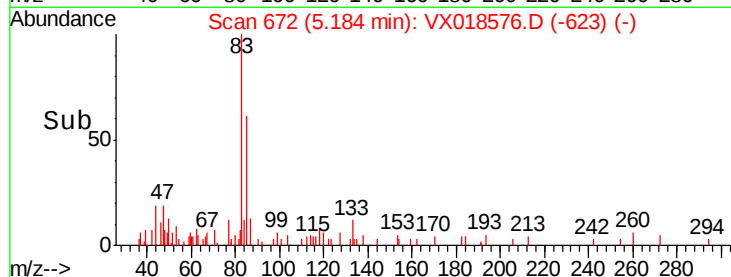
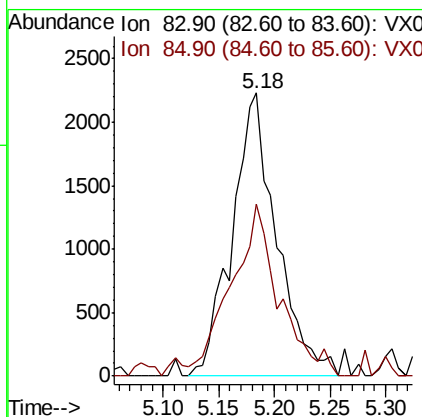
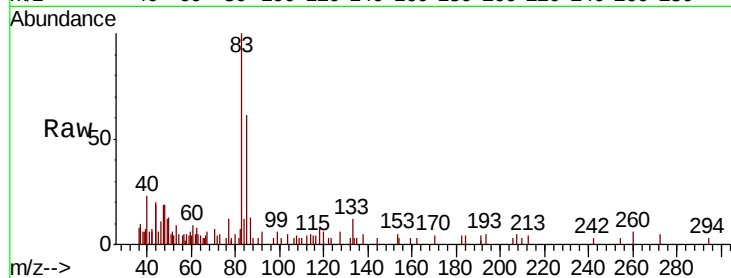




#30
Chloroform
Concen: 0.693 ug/l
RT: 5.18 min Scan# 672
Delta R.T. -0.00 min
Lab File: VX018576.D
Acq: 24 Sep 2020 16:39

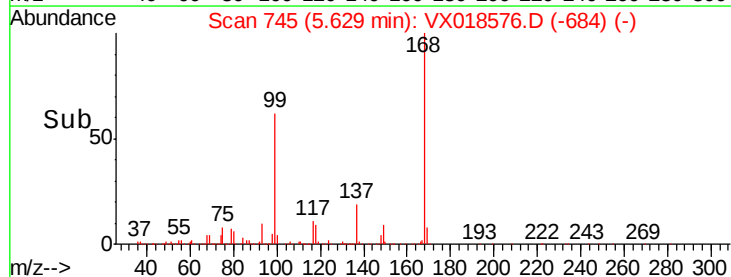
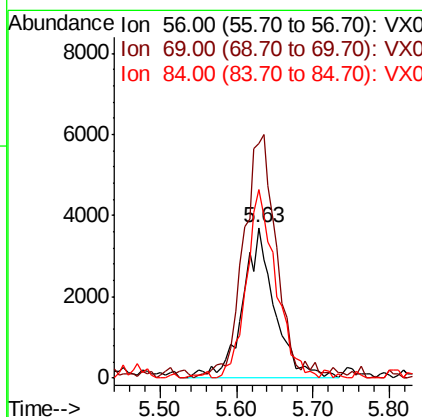
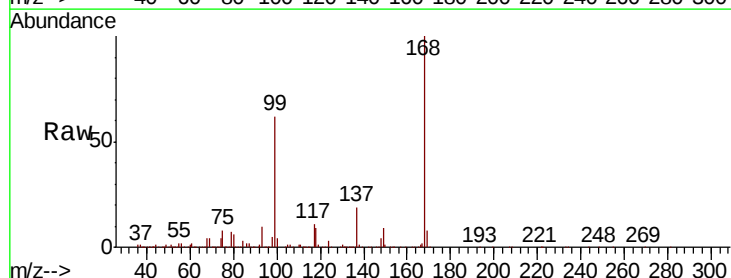
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ClientSampleId :
MW203D-20200919

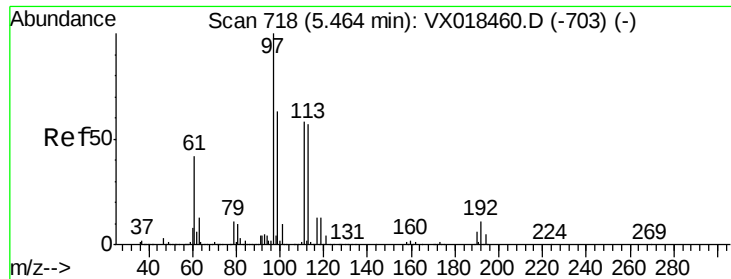
Tot Ion: 83 Resp: 6186
Ion Ratio Lower Upper
83 100
85 60.8 50.6 76.0



#31
Cyclohexane
Concen: 1.447 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.07 min
Lab File: VX018576.D
Acq: 24 Sep 2020 16:39

Tgt Ion: 56 Resp: 10713
Ion Ratio Lower Upper
56 100
69 153.5 24.8 37.2#
84 124.4 67.6 101.4#





#32

1,1,1-Trichloroethane

Concen: 1.156 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

MW203D-20200919

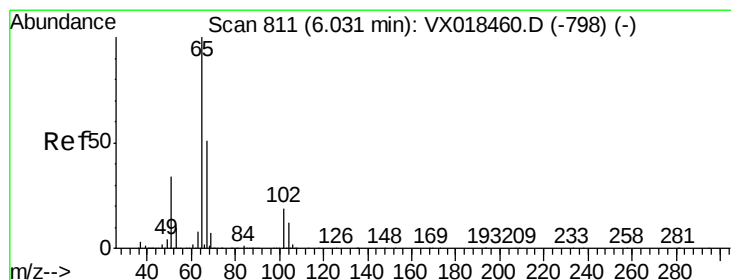
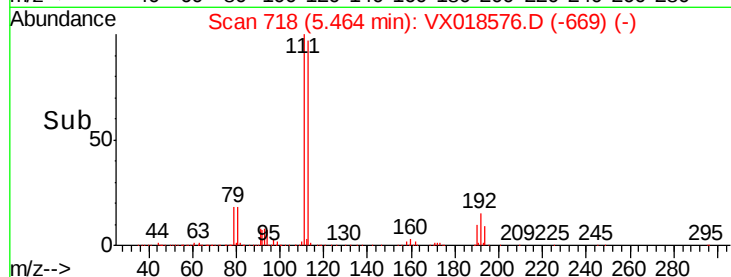
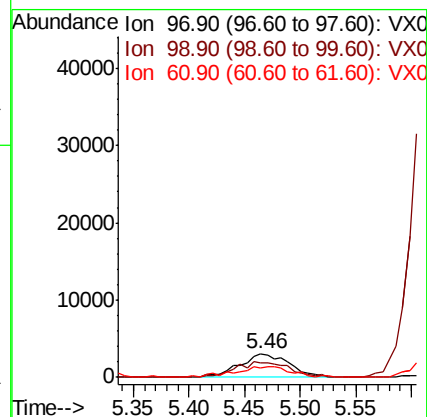
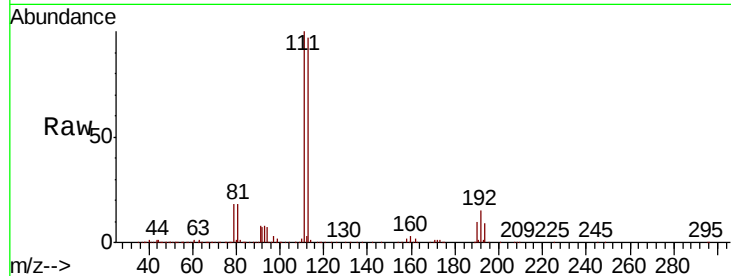
Tot Ion: 97 Resp: 9686

Ion Ratio Lower Upper

97 100

99 0.0 50.5 75.7#

61 50.9 33.4 50.2#



#33

1,2-Dichloroethane-d4

Concen: 52.104 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX018576.D

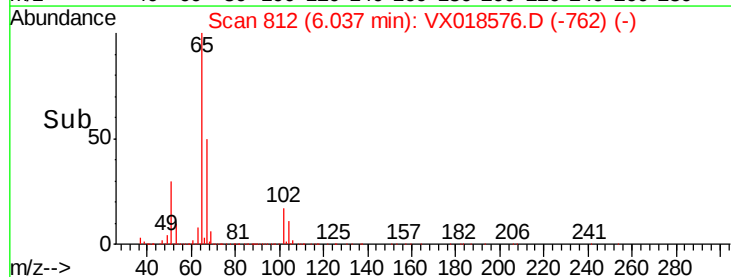
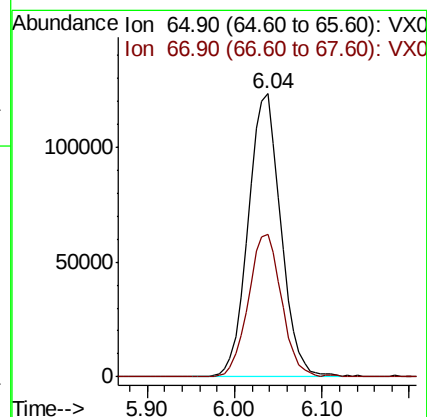
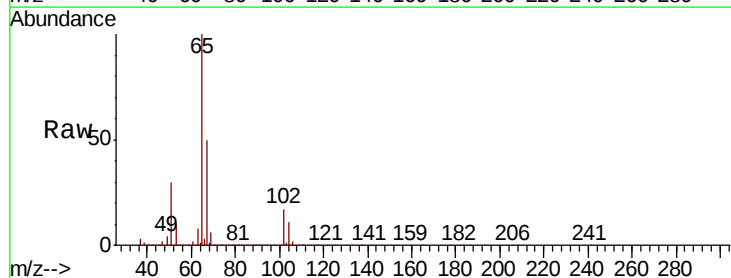
Acq: 24 Sep 2020 16:39

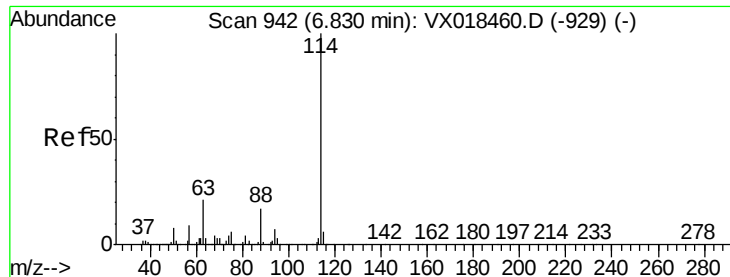
Tgt Ion: 65 Resp: 318851

Ion Ratio Lower Upper

65 100

67 51.3 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

MW203D-20200919

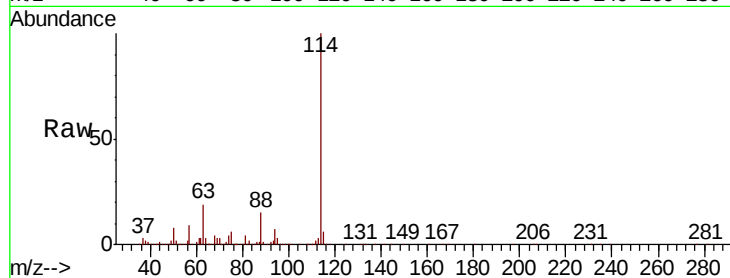
Tot Ion:114 Resp: 705100

Ion Ratio Lower Upper

114 100

63 18.6 0.0 42.8

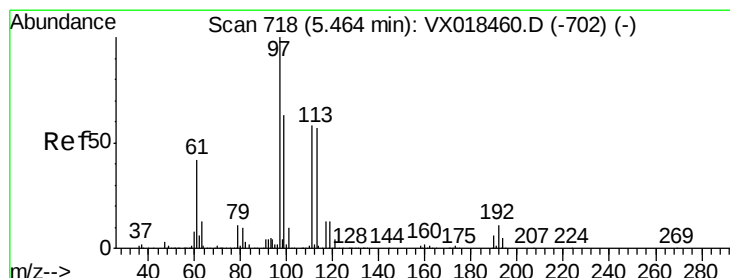
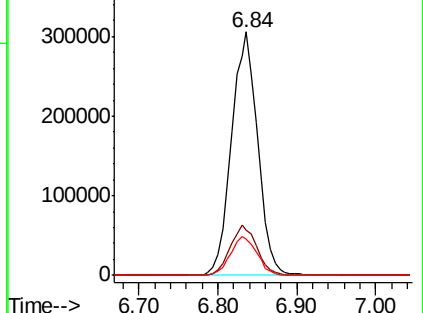
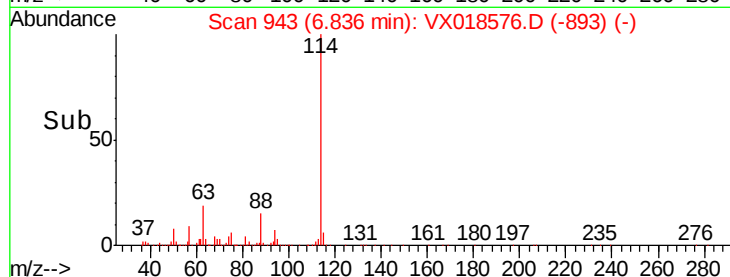
88 14.6 0.0 33.6



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: 51.672 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

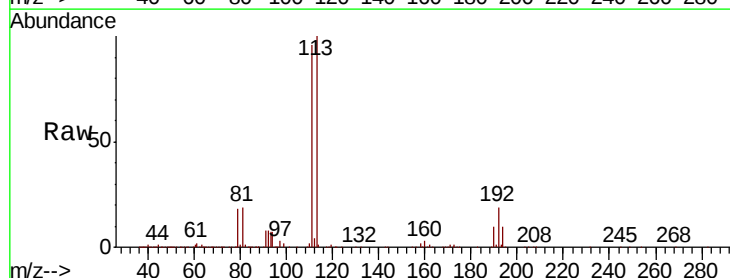
Tgt Ion:113 Resp: 251874

Ion Ratio Lower Upper

113 100

111 100.2 81.4 122.2

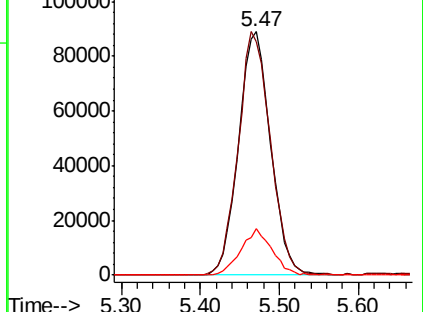
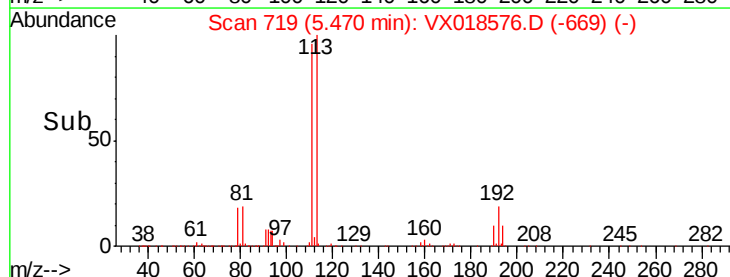
192 18.6 16.6 24.8

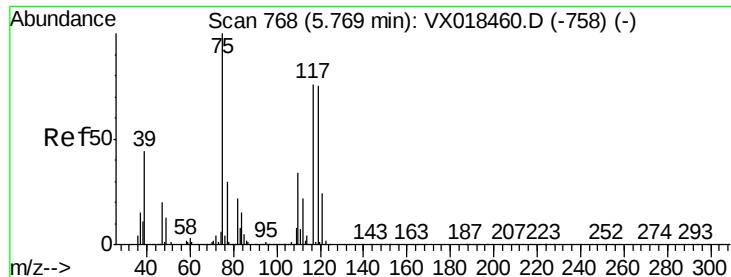


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.992 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

MW203D-20200919

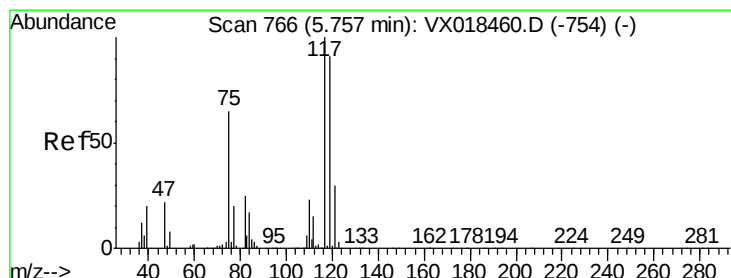
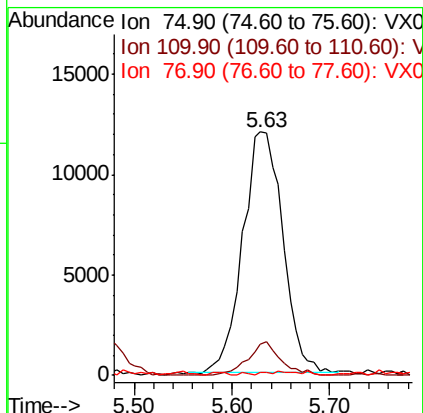
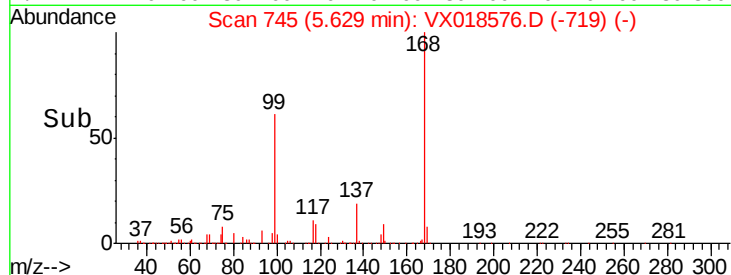
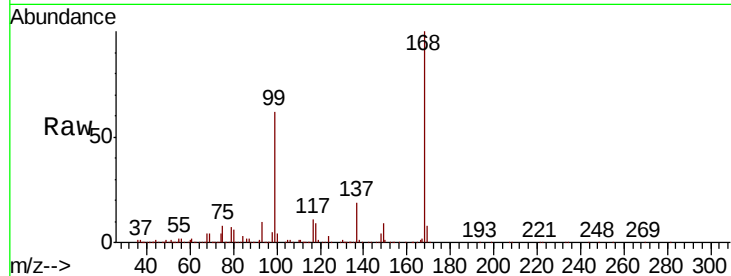
Tot Ion: 75 Resp: 34163

Ion Ratio Lower Upper

75 100

110 11.3 17.6 52.8#

77 0.6 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 6.070 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

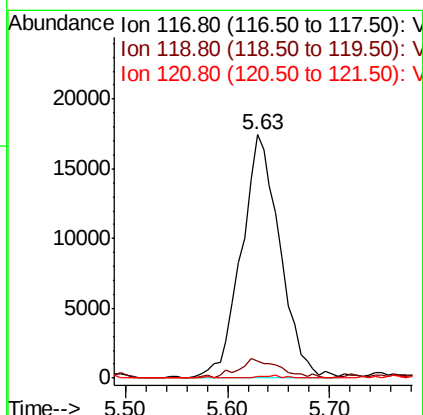
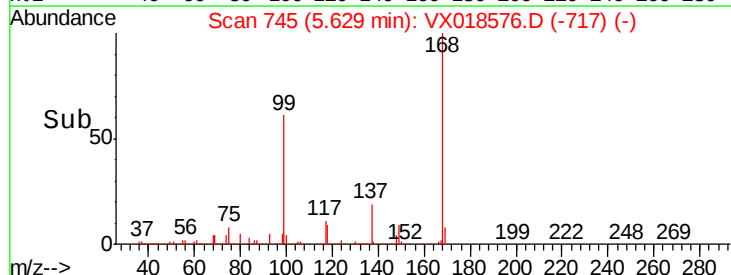
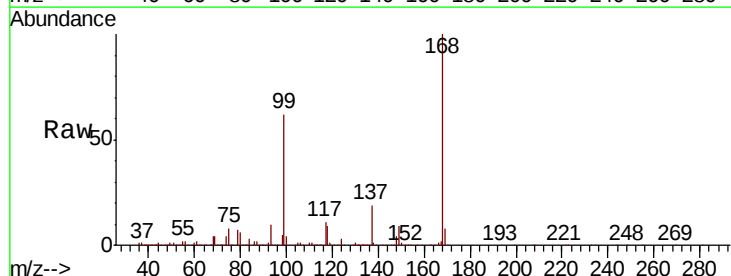
Tgt Ion: 117 Resp: 46008

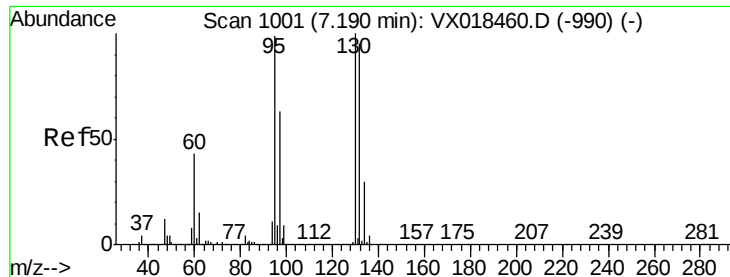
Ion Ratio Lower Upper

117 100

119 6.8 72.3 108.5#

121 0.4 23.8 35.8#

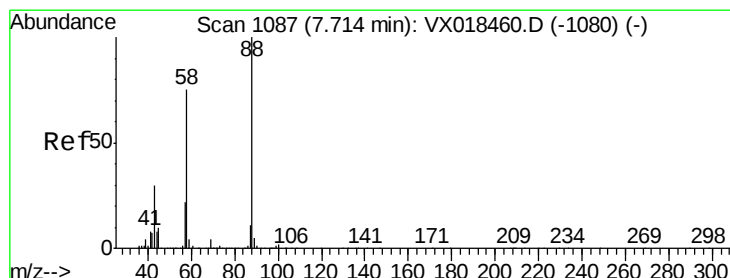
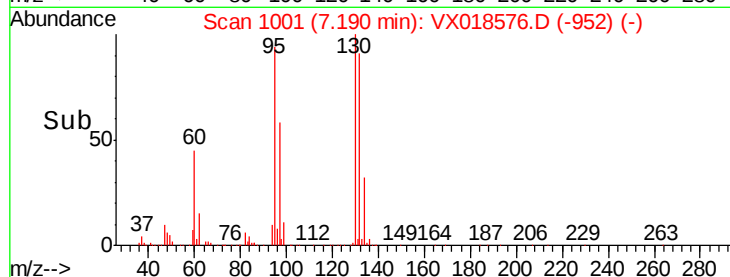
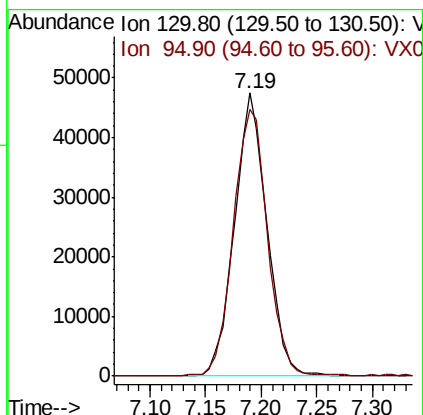
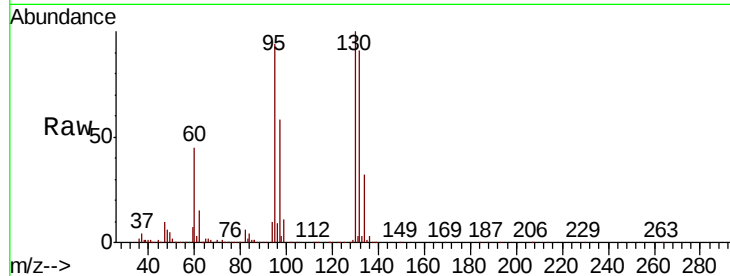




#44
 Trichloroethene
 Concen: 16.910 ug/l
 RT: 7.19 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VX018576.D
 Acq: 24 Sep 2020 16:39

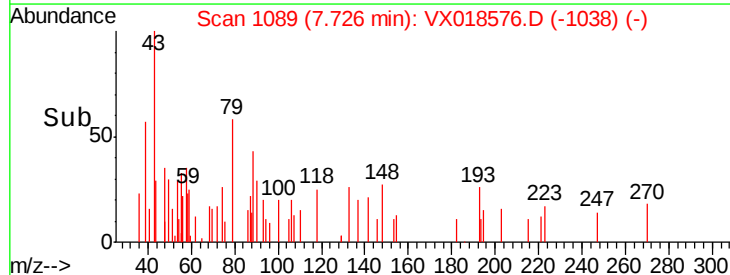
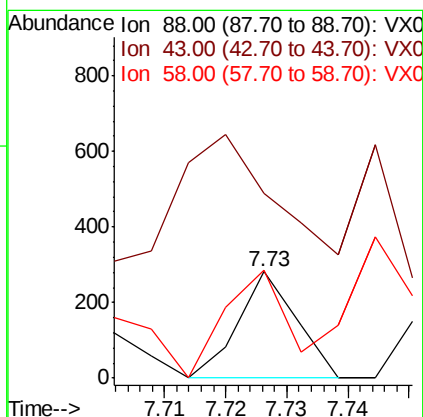
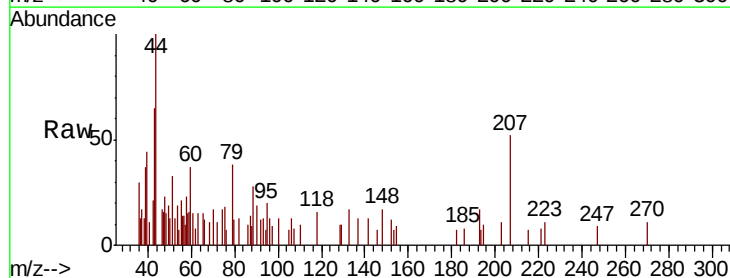
Instrument :
 MSVOA_X
 ClientSampleId :
 MW203D-20200919

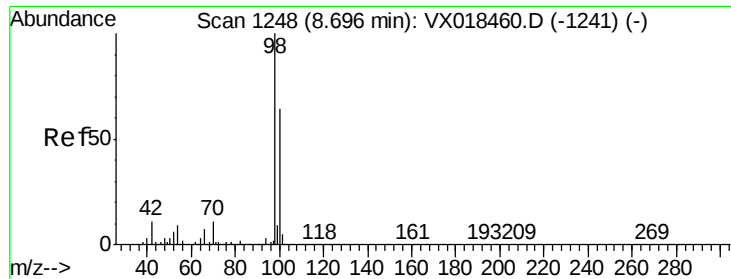
Tot Ion:130 Resp: 96013
 Ion Ratio Lower Upper
 130 100
 95 94.0 0.0 197.4



#49
 1,4-Dioxane
 Concen: 1.887 ug/l
 RT: 7.73 min Scan# 1089
 Delta R.T. 0.01 min
 Lab File: VX018576.D
 Acq: 24 Sep 2020 16:39

Tgt Ion: 88 Resp: 184
 Ion Ratio Lower Upper
 88 100
 43 237.0 29.9 44.9#
 58 107.6 59.0 88.6#





#50

Toluene-d8

Concen: 49.376 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

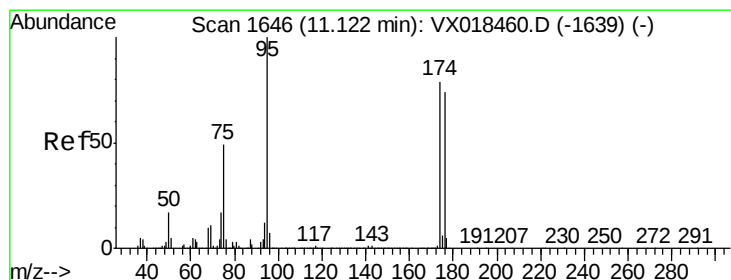
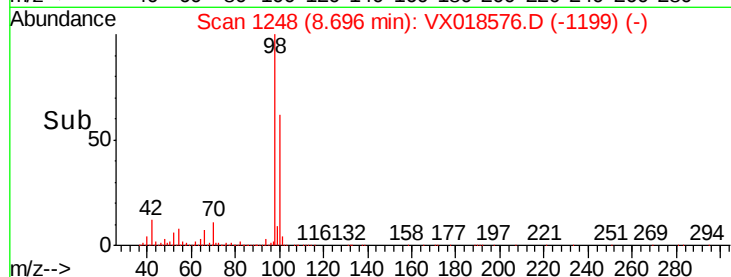
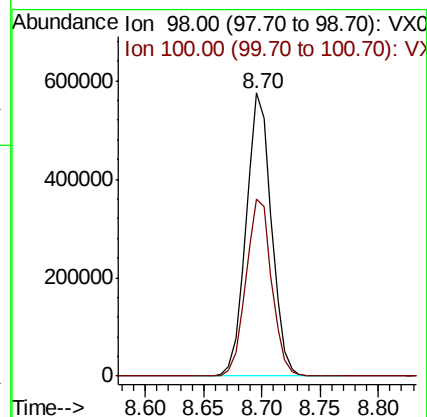
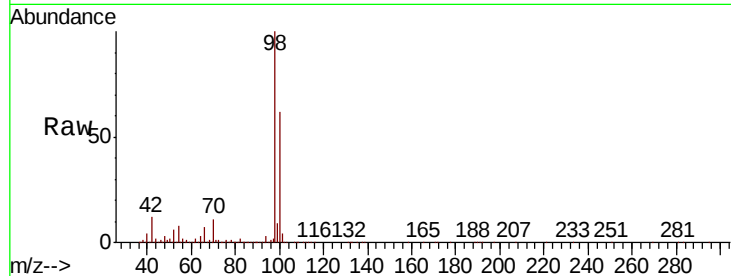
MW203D-20200919

Tot Ion: 98 Resp: 874479

Ion Ratio Lower Upper

98 100

100 63.7 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 46.324 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

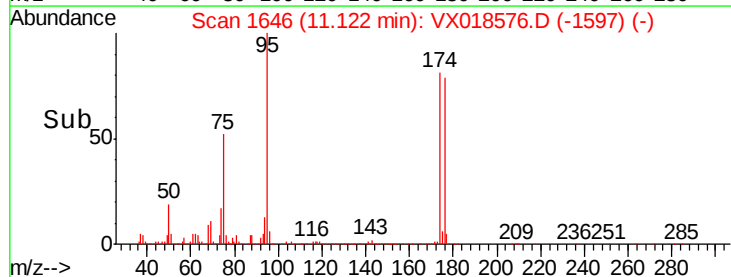
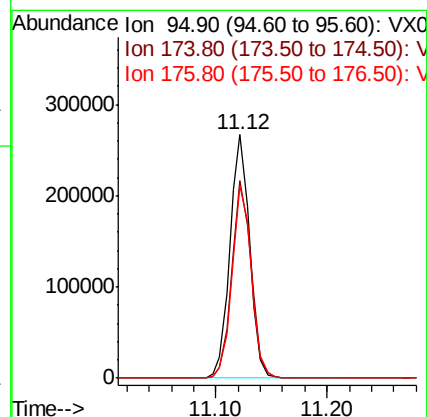
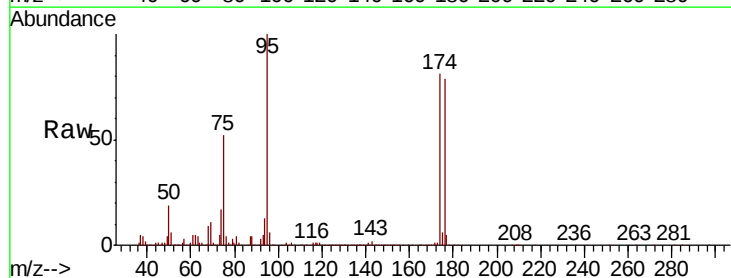
Tgt Ion: 95 Resp: 326344

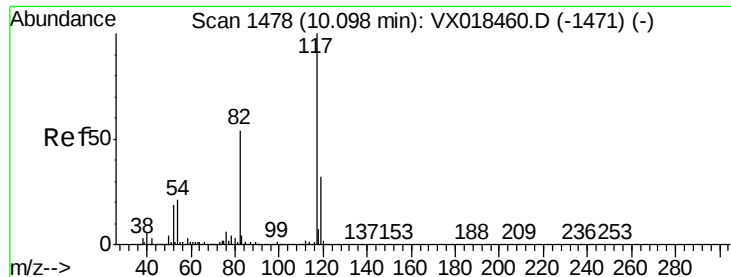
Ion Ratio Lower Upper

95 100

174 80.4 0.0 161.4

176 77.3 0.0 151.4

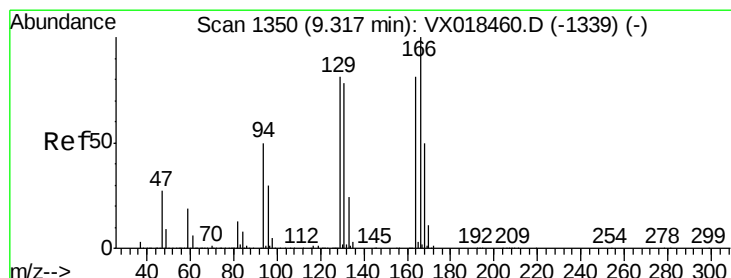
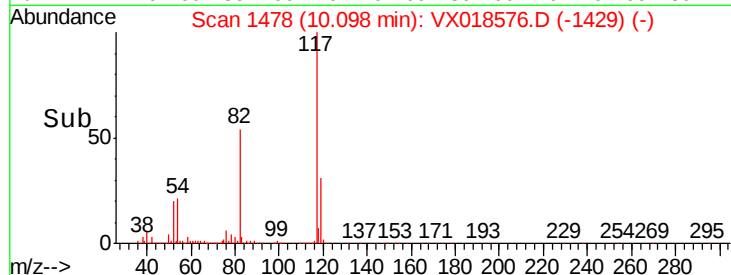
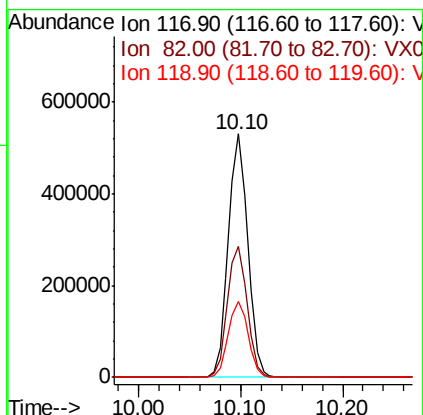
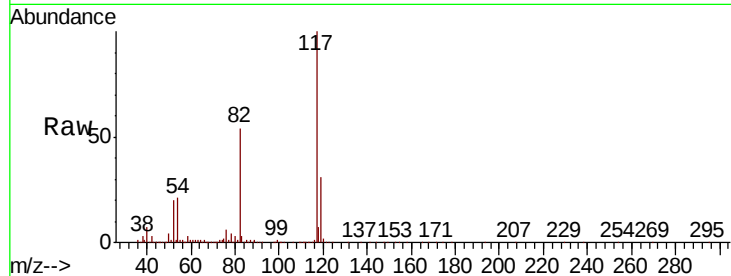




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018576.D
Acq: 24 Sep 2020 16:39

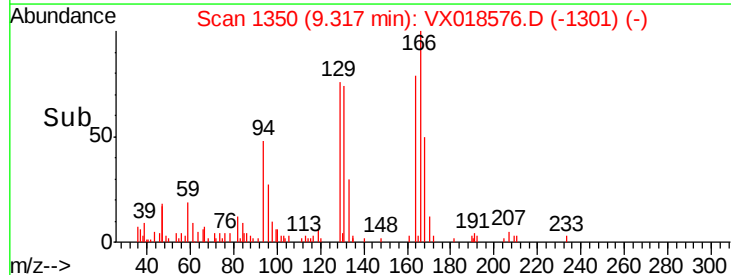
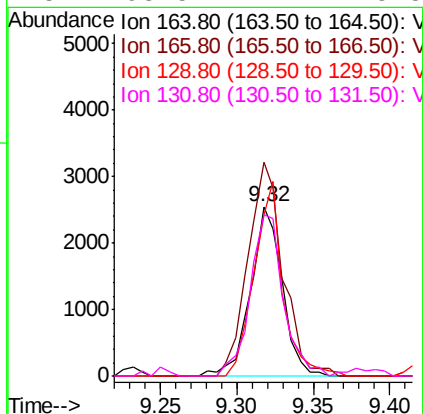
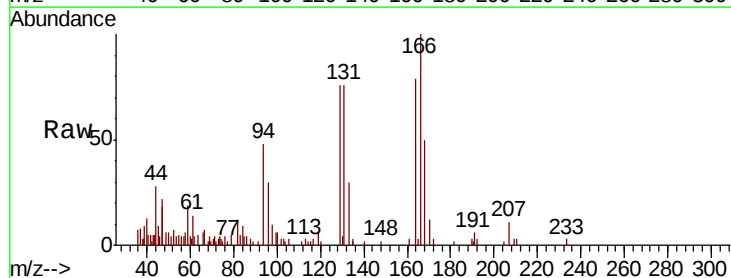
Instrument :
MSVOA_X
ClientSampleId :
MW203D-20200919

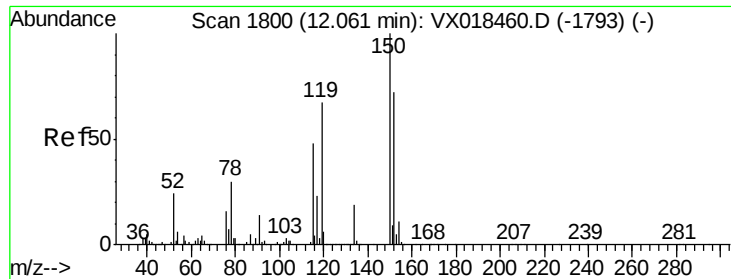
Tot Ion:117 Resp: 699924
Ion Ratio Lower Upper
117 100
82 53.9 43.3 64.9
119 31.3 25.9 38.9



#64
Tetrachloroethene
Concen: 0.666 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX018576.D
Acq: 24 Sep 2020 16:39

Tgt Ion:164 Resp: 3672
Ion Ratio Lower Upper
164 100
166 126.0 99.3 148.9
129 95.2 80.7 121.1
131 95.5 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: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

MW203D-20200919

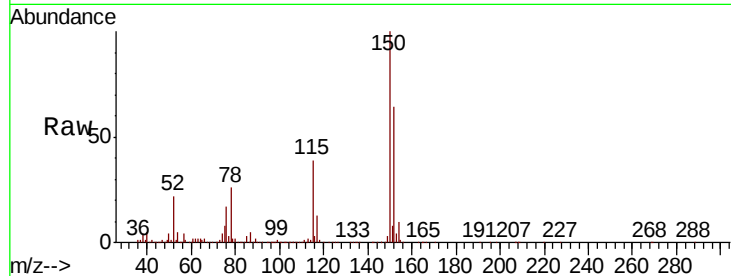
Tot Ion:152 Resp: 340414

Ion Ratio Lower Upper

152 100

115 59.8 41.8 125.4

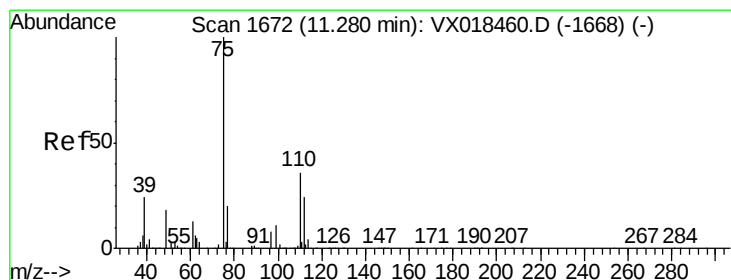
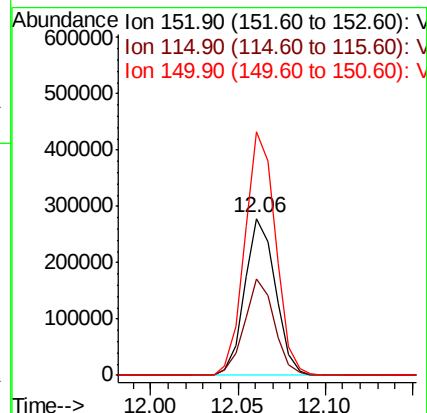
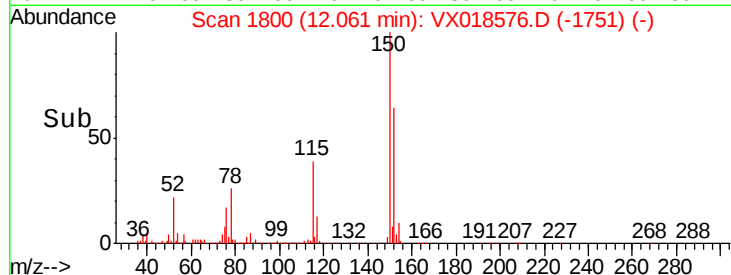
150 155.5 0.0 342.4



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: 23.682 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018576.D

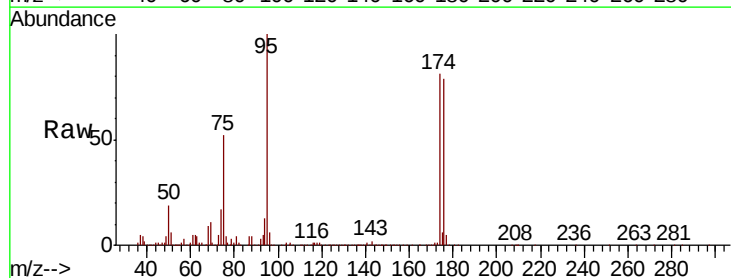
Acq: 24 Sep 2020 16:39

Tgt Ion: 75 Resp: 169412

Ion Ratio Lower Upper

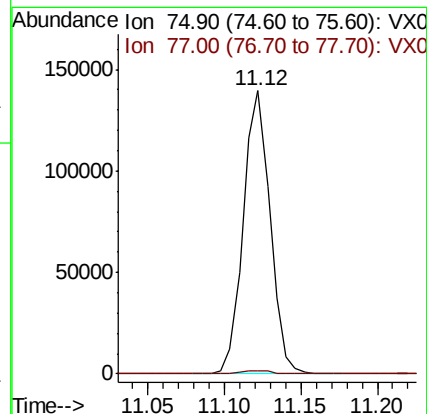
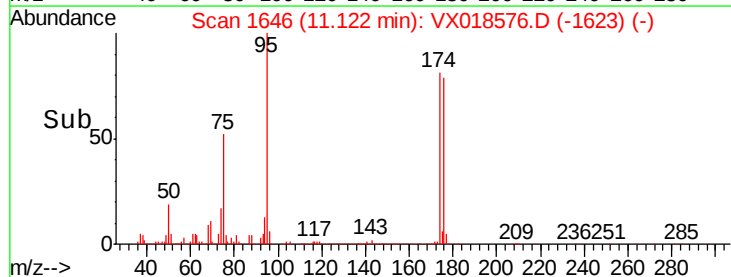
75 100

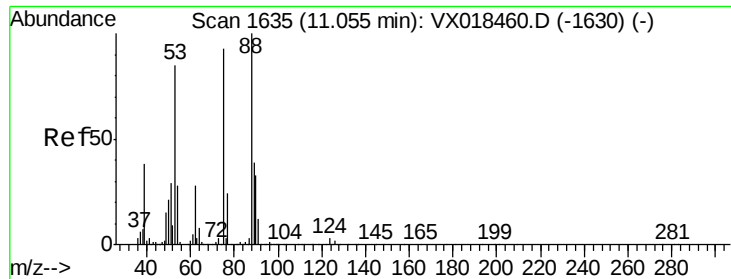
77 1.5 20.9 62.7#



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: 60.685 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018576.D

Acq: 24 Sep 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

MW203D-20200919

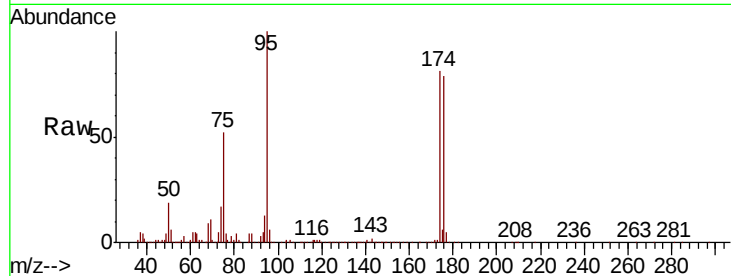
Tot Ion: 75 Resp: 169412

Ion Ratio Lower Upper

75 100

53 0.0 74.6 111.8#

89 0.1 36.2 54.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

