

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092420\
 Data File : VX018580.D
 Acq On : 24 Sep 2020 18:09
 Operator : JC/SP
 Sample : L4118-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW202D1-20200919

Quant Time: Sep 25 01:09:01 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	435623	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	695306	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	675977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	329167	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	313671	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
35) Dibromofluoromethane	5.46	113	244300	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
50) Toluene-d8	8.70	98	856369	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	11.12	95	321054	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	

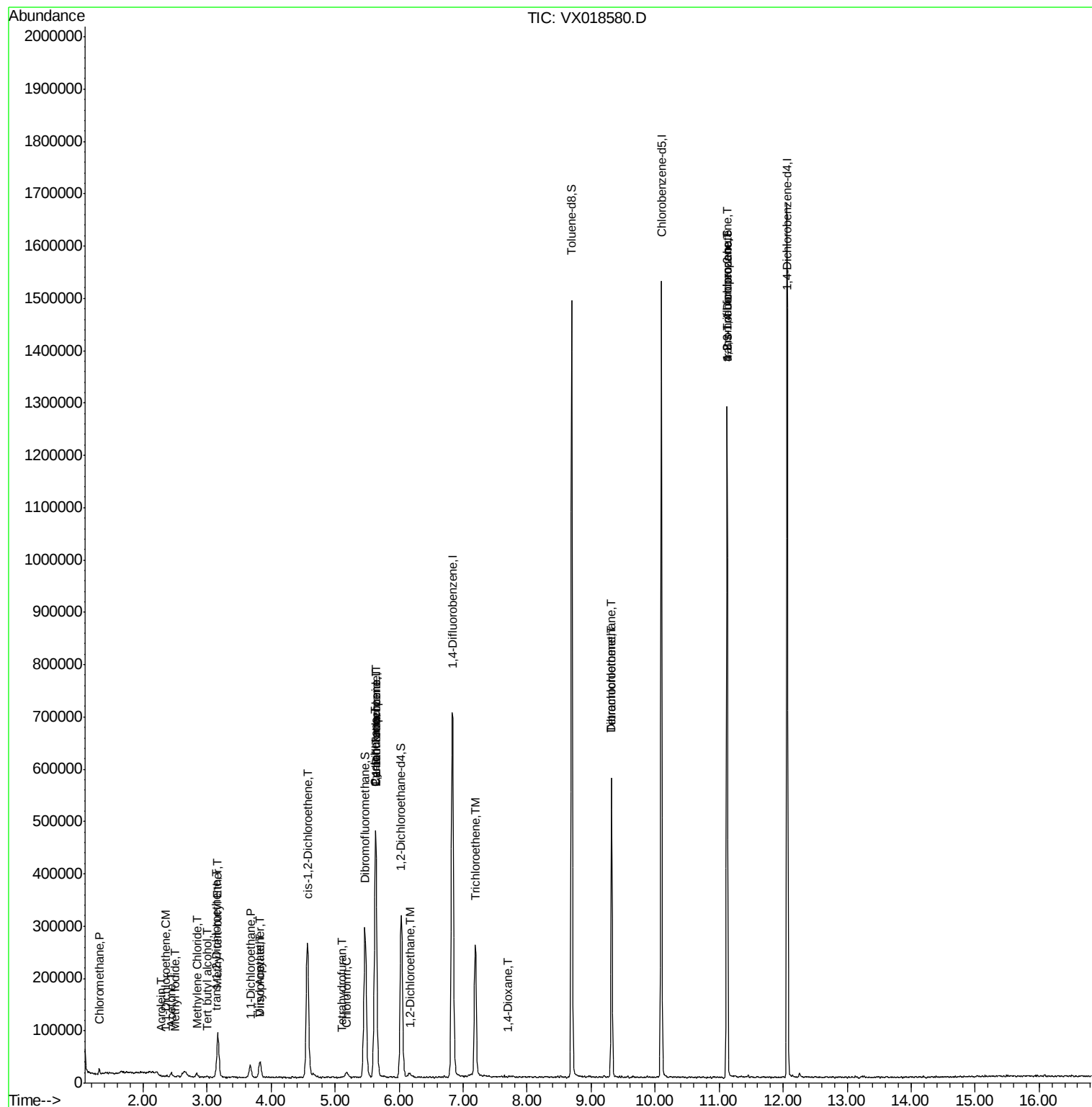
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	6217	1.286	ug/l #	82
10) Methyl Iodide	2.50	142	160	4.942	ug/l #	71
11) Tert butyl alcohol	2.99	59	1228	1.145	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	885	0.210	ug/l #	23
13) Acrolein	2.29	56	209	0.308	ug/l #	6
16) Acetone	2.44	43	12459	5.286	ug/l	89
19) Methyl tert-butyl Ether	3.17	73	88033	5.944	ug/l	96
20) Methylene Chloride	2.84	84	3566	0.686	ug/l #	70
21) trans-1,2-Dichloroethene	3.14	96	3897	0.795	ug/l #	65
22) Diisopropyl ether	3.82	45	31256	2.034	ug/l #	82
23) Vinyl Acetate	3.82	43	18268	1.342	ug/l #	73
24) 1,1-Dichloroethane	3.67	63	29661	3.347	ug/l #	93
27) cis-1,2-Dichloroethene	4.57	96	165902	30.189	ug/l	87
29) Tetrahydrofuran	5.10	42	563	0.243	ug/l #	44
30) Chloroform	5.18	83	13899	1.546	ug/l	89
31) Cyclohexane	5.62	56	9173	1.230	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	33845	5.015	ug/l #	52
38) Carbon Tetrachloride	5.63	117	45596	6.100	ug/l #	19
42) 1,2-Dichloroethane	6.17	62	10566	1.404	ug/l	90
44) Trichloroethene	7.19	130	97656	17.442	ug/l	91
49) 1,4-Dioxane	7.70	88	104	1.081	ug/l #	1
60) Dibromochloromethane	9.32	129	103095	17.120	ug/l #	11
64) Tetrachloroethene	9.32	164	107739	20.245	ug/l	94
76) 1,2,3-Trichloropropane	11.12	75	166762	24.108	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	166762	61.777	ug/l #	13

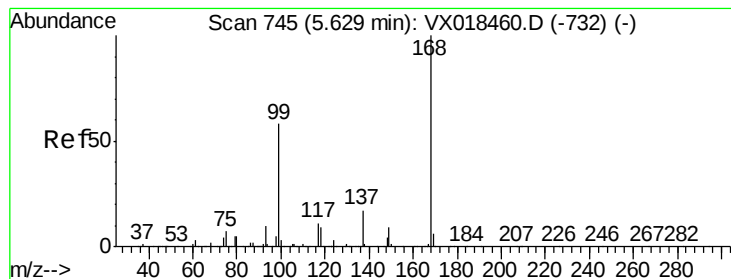
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VX018580.D

Acq: 24 Sep 2020 18:09

Instrument :

MSVOA_X

ClientSampleId :

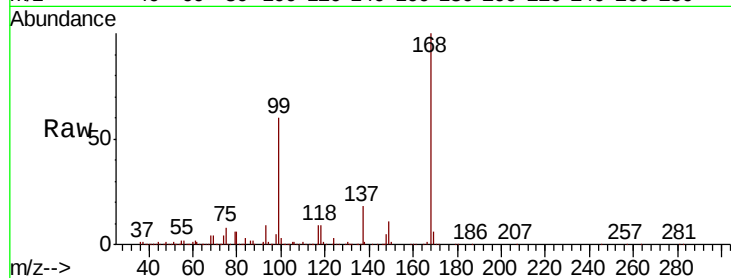
MW202D1-20200919

Tot Ion:168 Resp: 435623

Ion Ratio Lower Upper

168 100

99 59.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

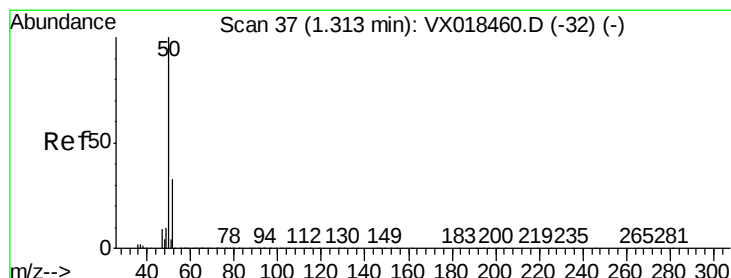
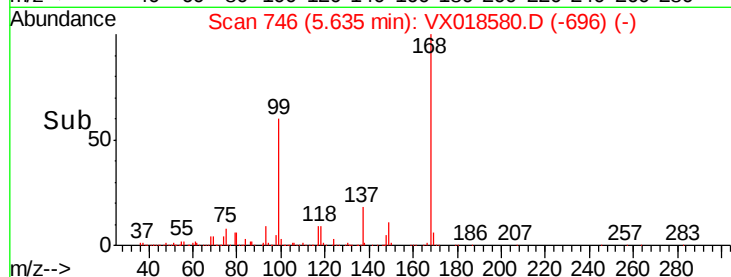
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 1.286 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018580.D

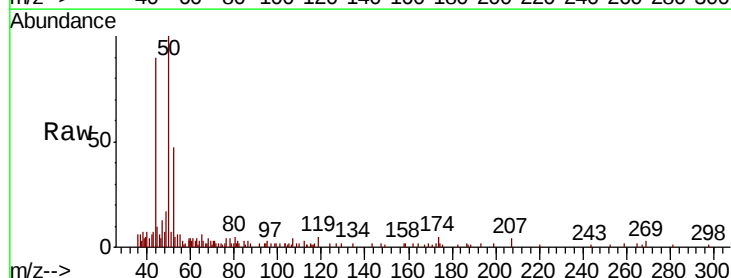
Acq: 24 Sep 2020 18:09

Tgt Ion: 50 Resp: 6217

Ion Ratio Lower Upper

50 100

52 43.4 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

5000

4000

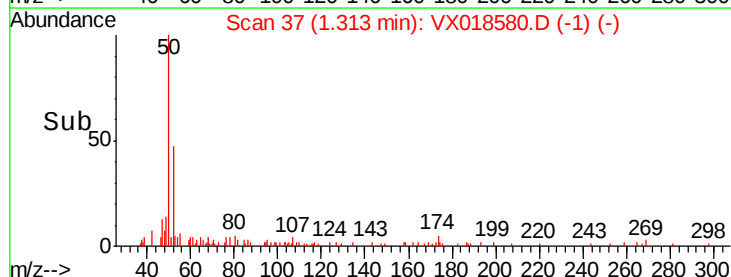
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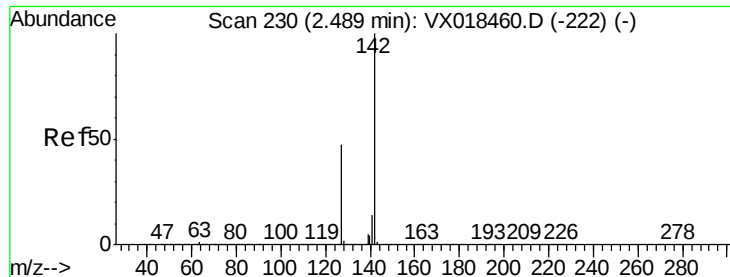
2000

1000

0

Time-->

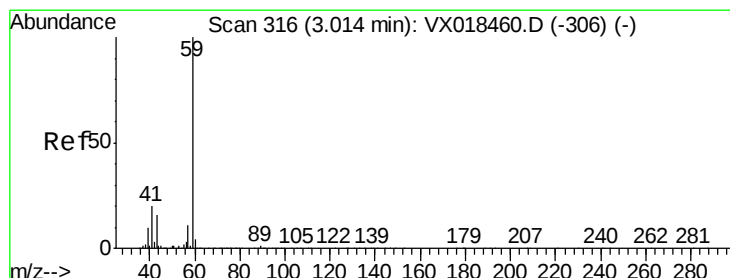
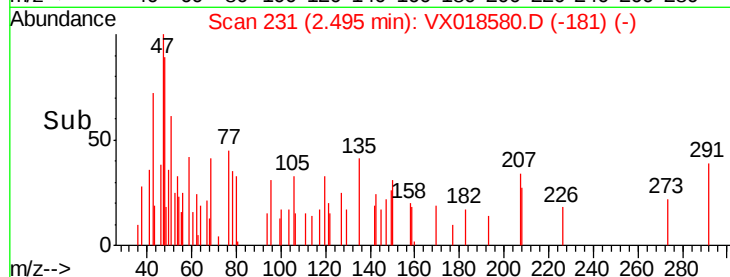
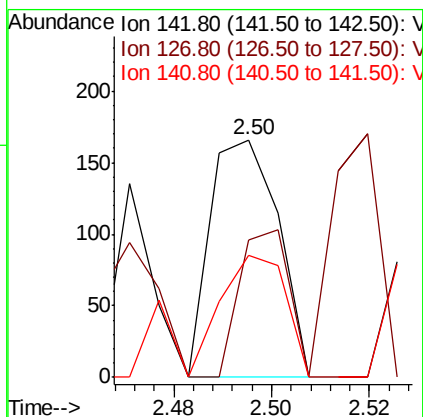
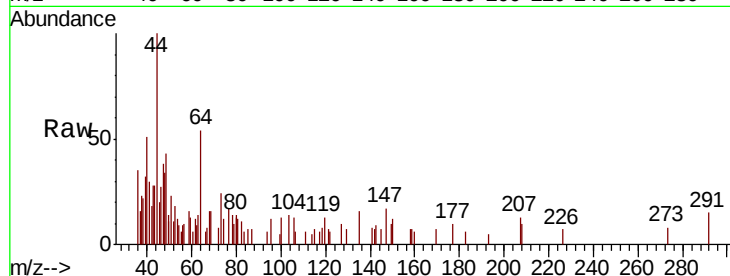




#10
Methyl Iodide
Concen: 4.942 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

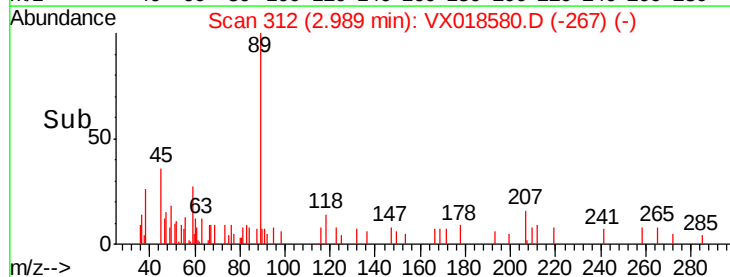
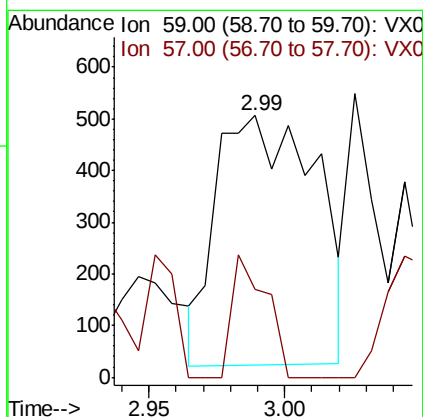
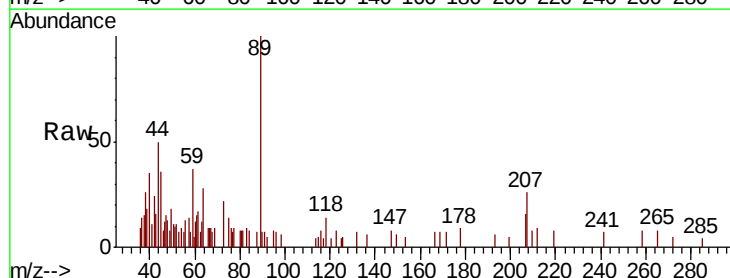
Instrument :
MSVOA_X
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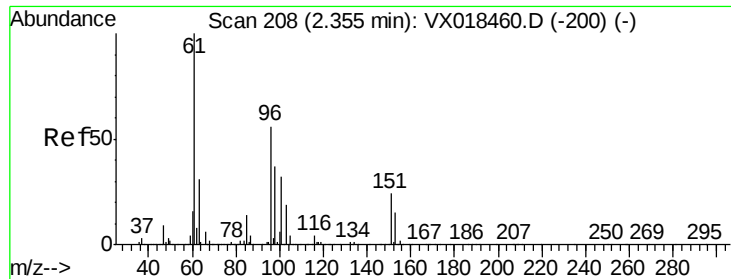
Tot Ion:142 Resp: 160
Ion Ratio Lower Upper
142 100
127 45.6 36.0 54.0
141 61.9 11.9 17.9#



#11
Tert butyl alcohol
Concen: 1.145 ug/l
RT: 2.99 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

Tgt Ion: 59 Resp: 1228
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 0.210 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX018580.D

Acq: 24 Sep 2020 18:09

Instrument :

MSVOA_X

ClientSampleId :

MW202D1-20200919

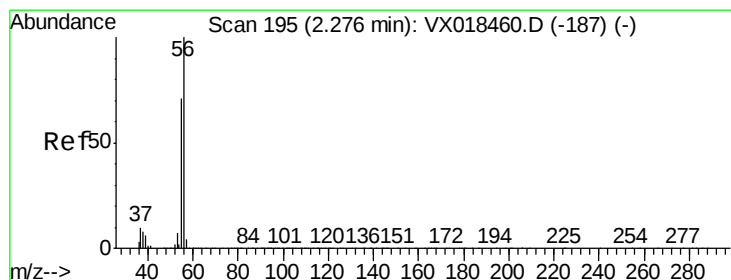
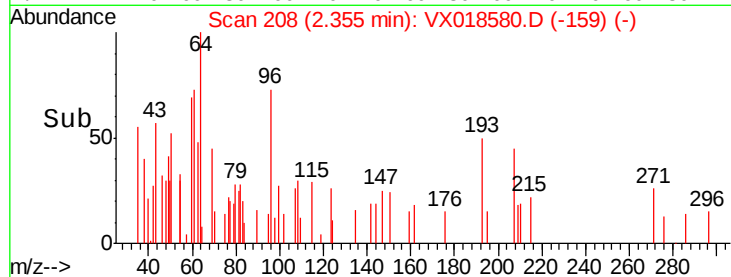
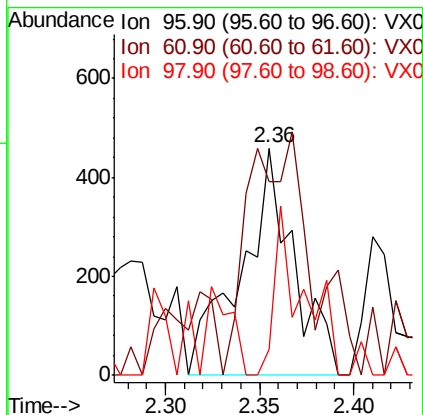
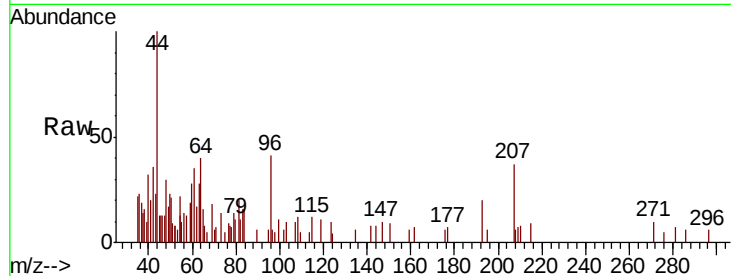
Tot Ion: 96 Resp: 885

Ion Ratio Lower Upper

96 100

61 65.4 142.2 213.4#

98 11.3 52.4 78.6#



#13

Acrolein

Concen: 0.308 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.01 min

Lab File: VX018580.D

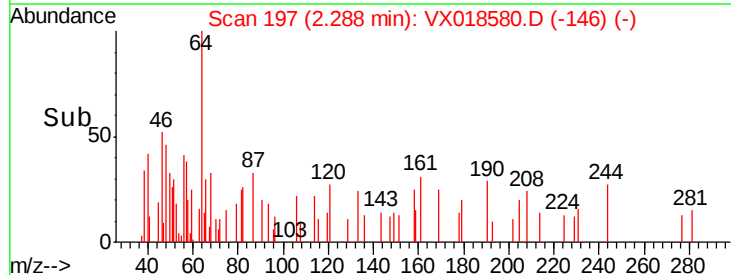
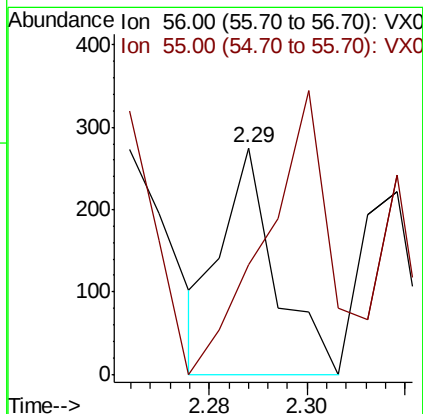
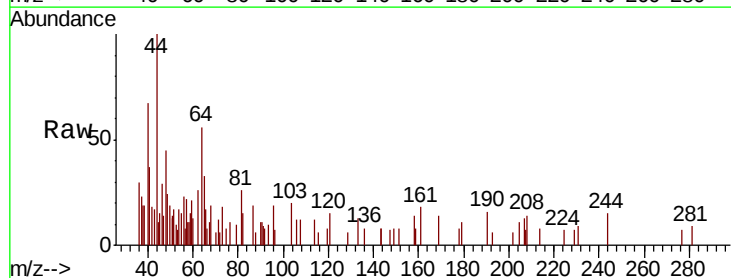
Acq: 24 Sep 2020 18:09

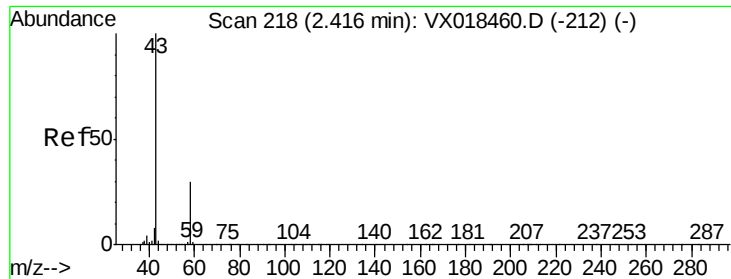
Tgt Ion: 56 Resp: 209

Ion Ratio Lower Upper

56 100

55 151.7 58.2 87.4#

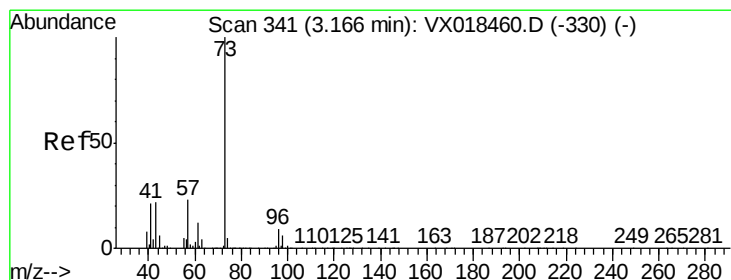
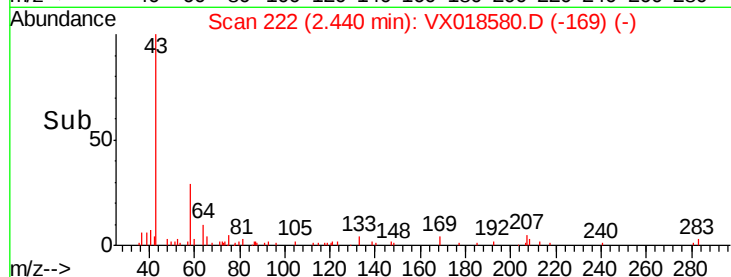
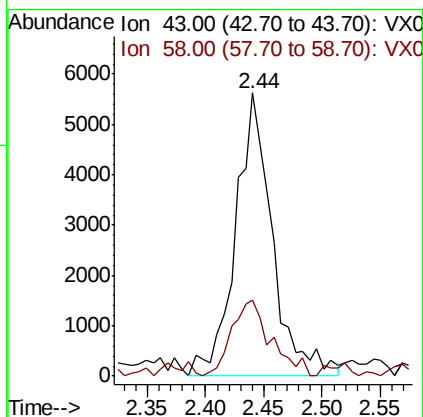
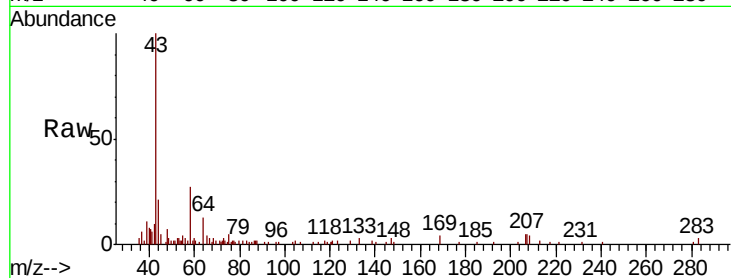




#16
Acetone
Concen: 5.286 ug/l
RT: 2.44 min Scan# 222
Delta R.T. 0.02 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

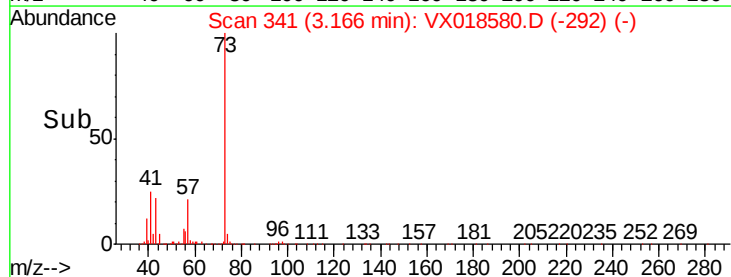
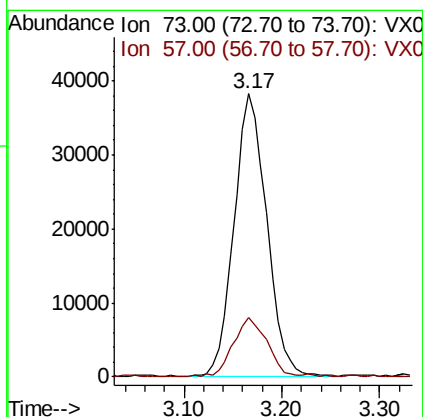
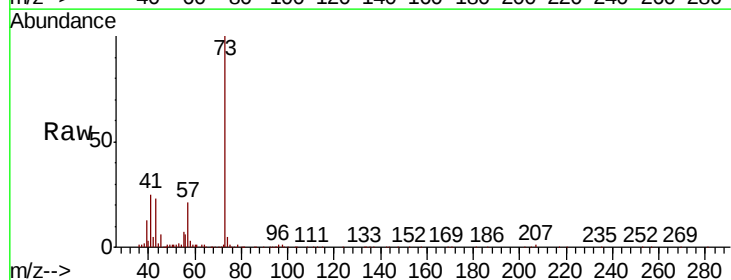
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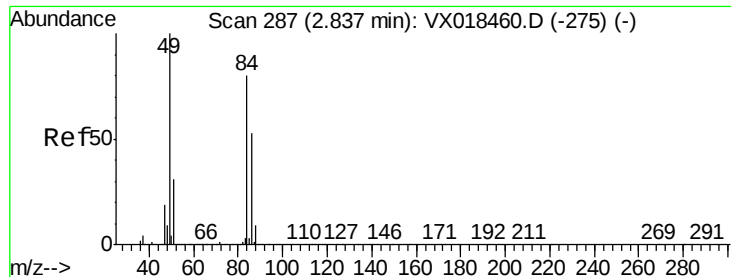
Tot Ion: 43 Resp: 12459
Ion Ratio Lower Upper
43 100
58 24.2 24.0 36.0



#19
Methyl tert-butyl Ether
Concen: 5.944 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

Tgt Ion: 73 Resp: 88033
Ion Ratio Lower Upper
73 100
57 20.6 18.0 27.0

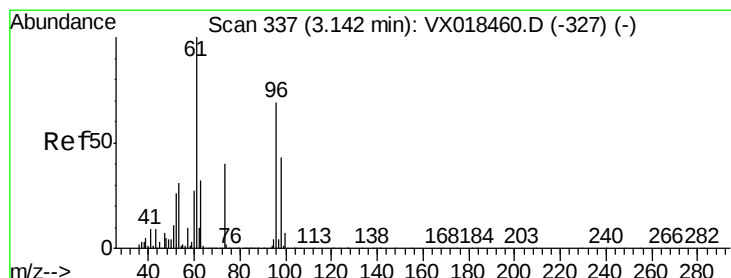
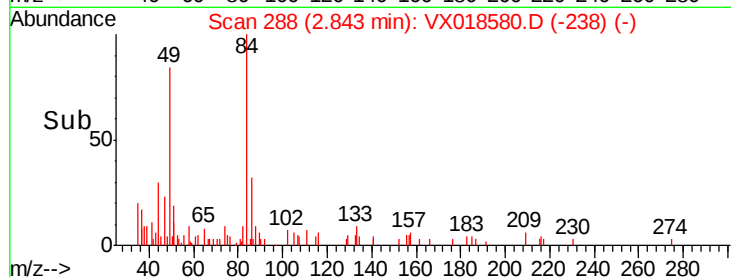
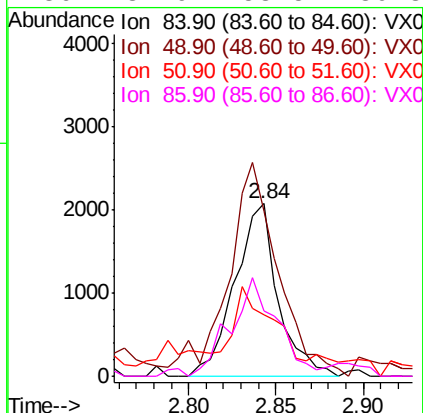
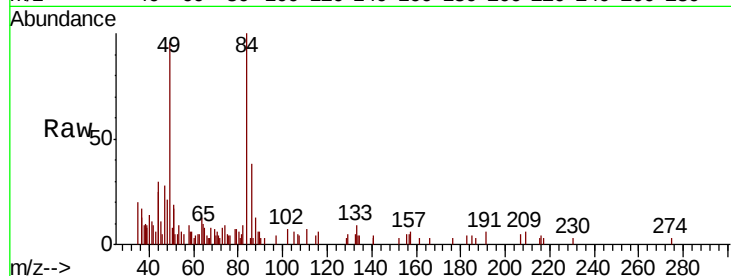




#20
Methvlene Chloride
Concen: 0.686 ug/l
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

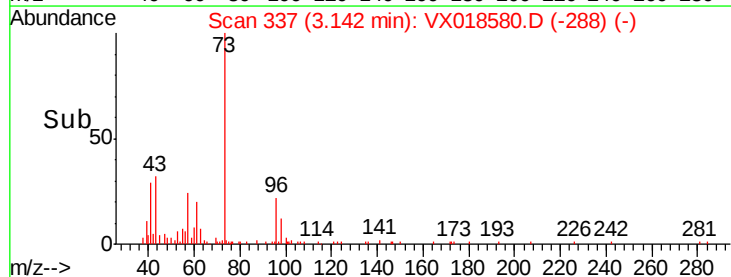
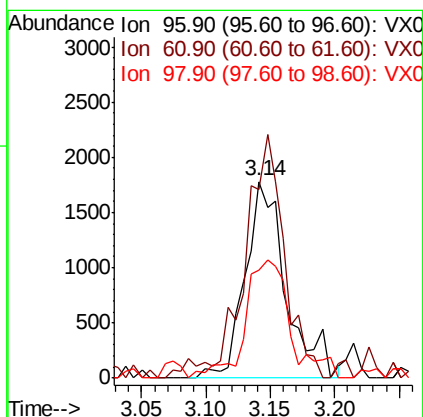
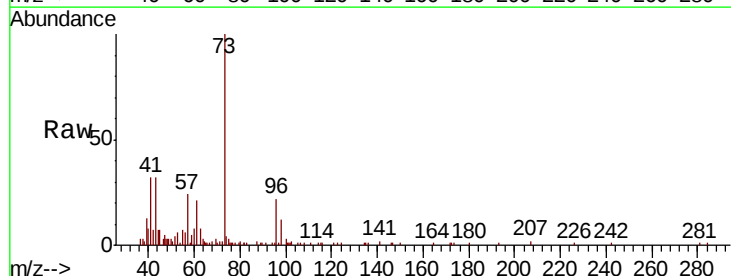
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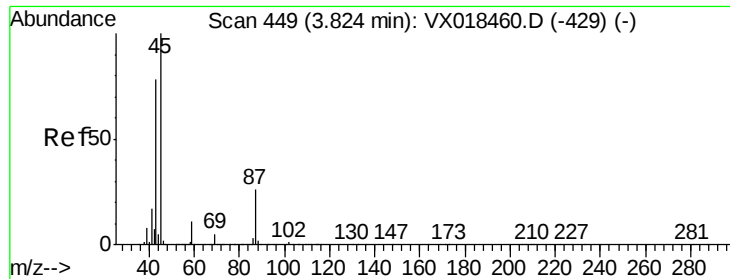
Tot Ion:	84	Resp:	3566
Ion	Ratio	Lower	Upper
84	100		
49	91.3	100.6	151.0#
51	27.0	30.9	46.3#
86	37.9	53.5	80.3#



#21
trans-1,2-Dichloroethene
Concen: 0.795 ug/l
RT: 3.14 min Scan# 337
Delta R.T. -0.00 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

Tgt Ion:	96	Resp:	3897
Ion	Ratio	Lower	Upper
96	100		
61	88.3	115.6	173.4#
98	54.7	50.2	75.4

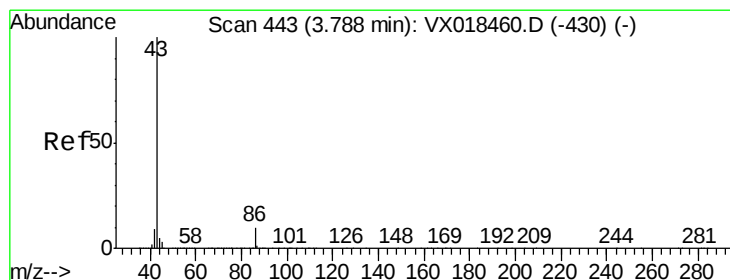
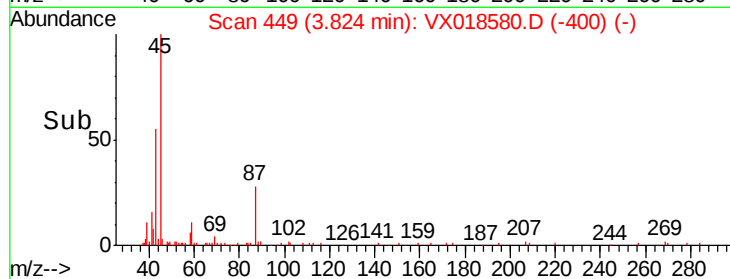
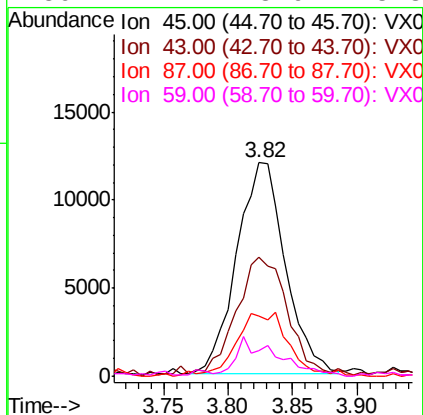
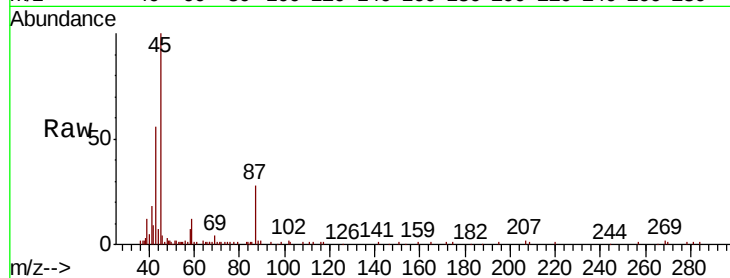




#22
Diisopropyl ether
Concen: 2.034 ug/l
RT: 3.82 min Scan# 449
Delta R.T. -0.00 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

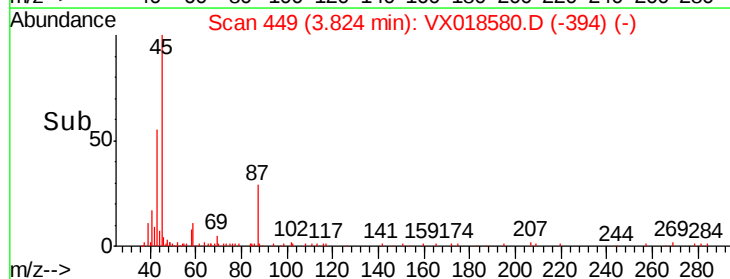
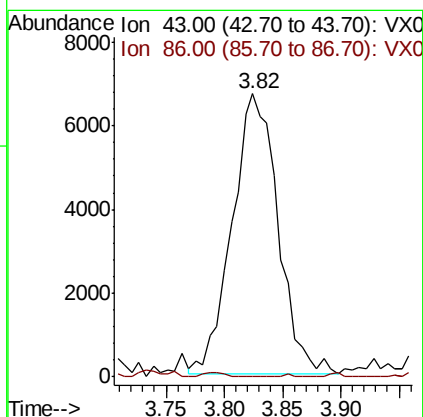
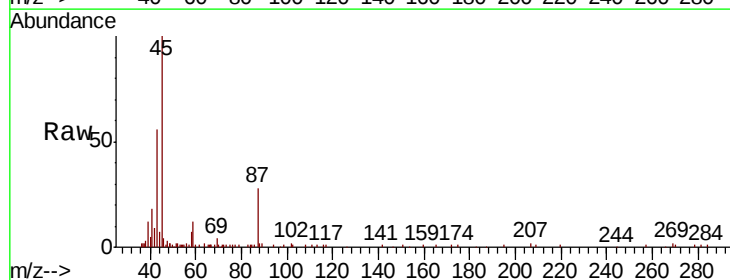
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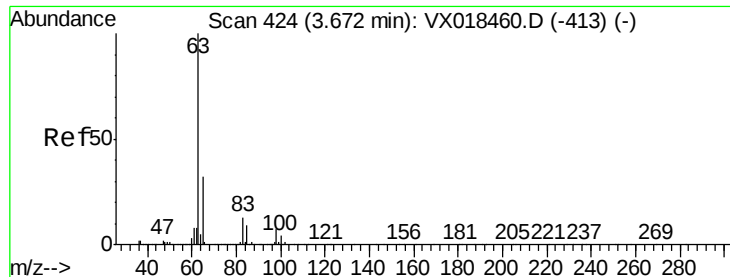
Tot Ion:	45	Resp:	31256
Ion	Ratio	Lower	Upper
45	100		
43	55.0	62.4	93.6#
87	26.2	21.2	31.8
59	11.2	8.9	13.3



#23
Vinyl Acetate
Concen: 1.342 ug/l
RT: 3.82 min Scan# 449
Delta R.T. 0.04 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

Tgt Ion:	43	Resp:	18268
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.1	12.1#





#24

1,1-Dichloroethane

Concen: 3.347 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX018580.D

Acq: 24 Sep 2020 18:09

Instrument :

MSVOA_X

ClientSampleId :

MW202D1-20200919

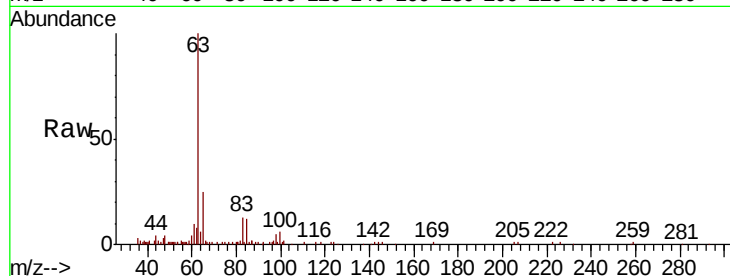
Tot Ion: 63 Resp: 29661

Ion Ratio Lower Upper

63 100

98 4.9 3.5 10.6

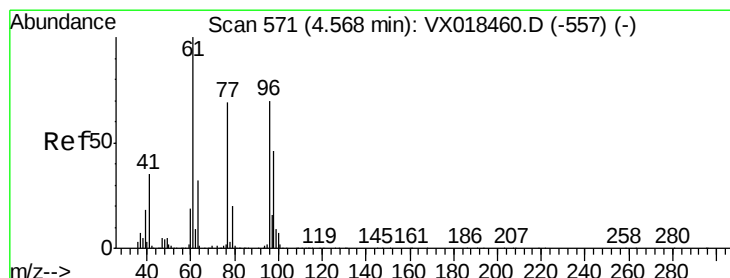
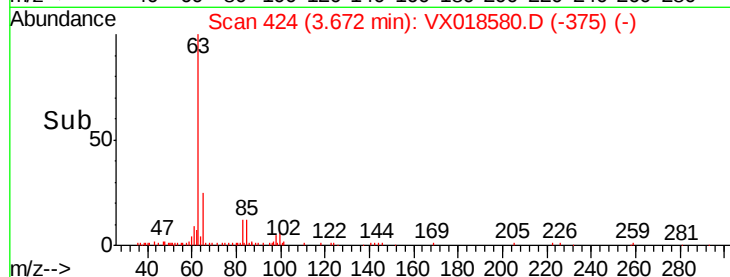
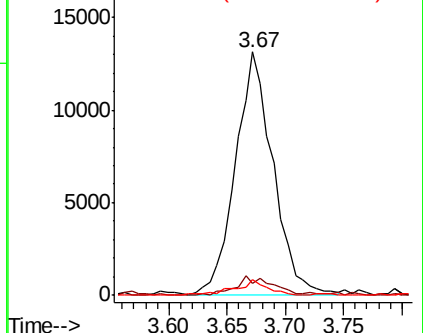
100 6.4 1.9 5.7#



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: 30.189 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX018580.D

Acq: 24 Sep 2020 18:09

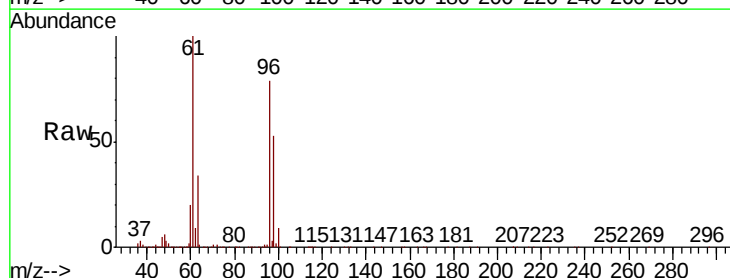
Tgt Ion: 96 Resp: 165902

Ion Ratio Lower Upper

96 100

61 126.9 0.0 300.0

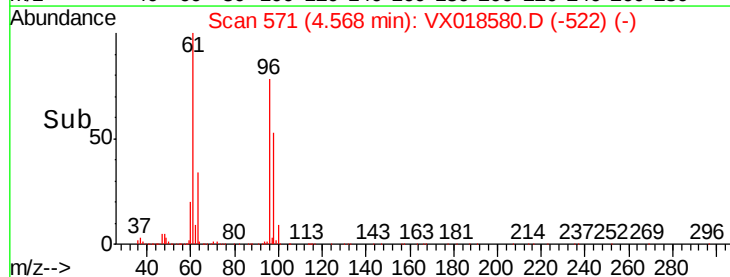
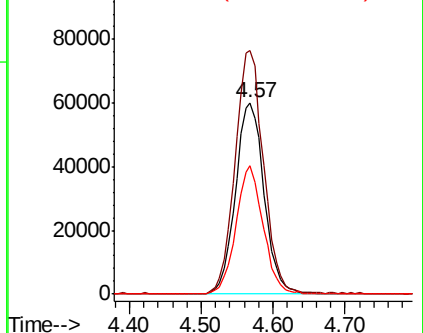
98 63.7 0.0 130.4

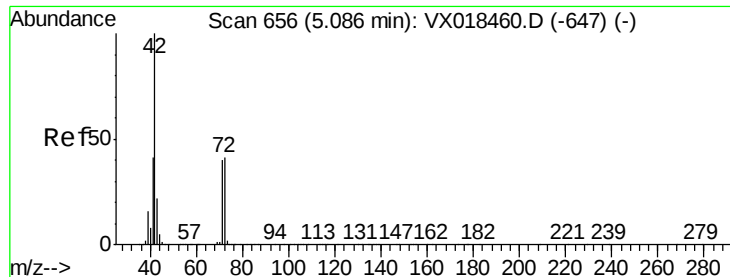


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

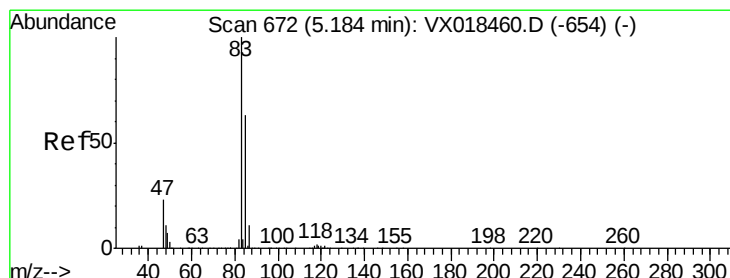
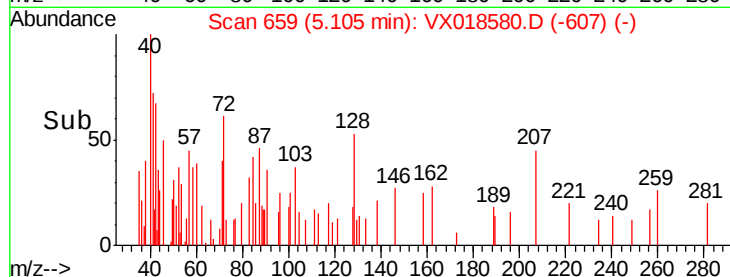
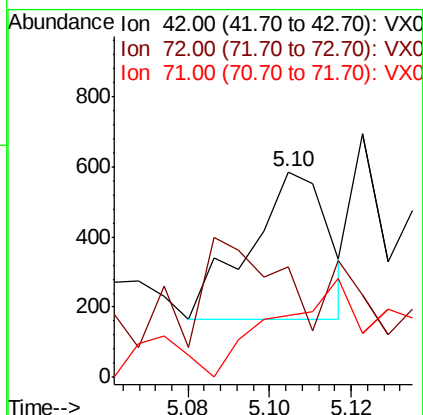
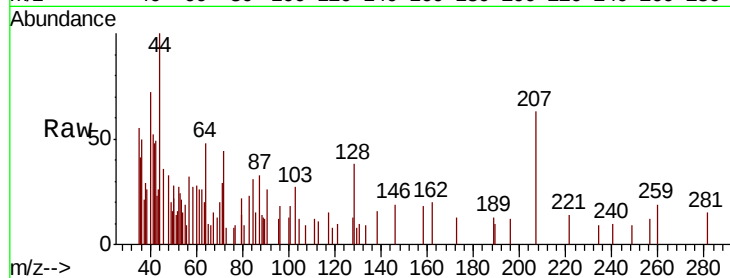




#29
Tetrahydrofuran
Concen: 0.243 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

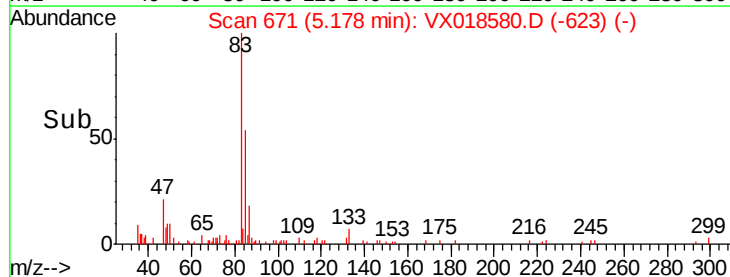
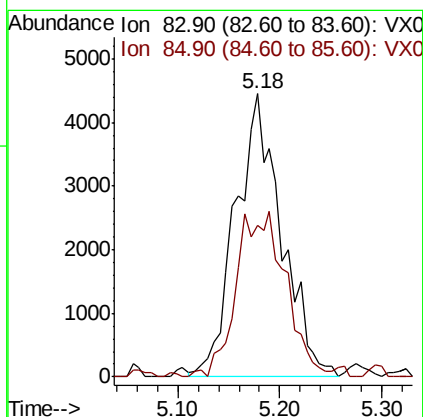
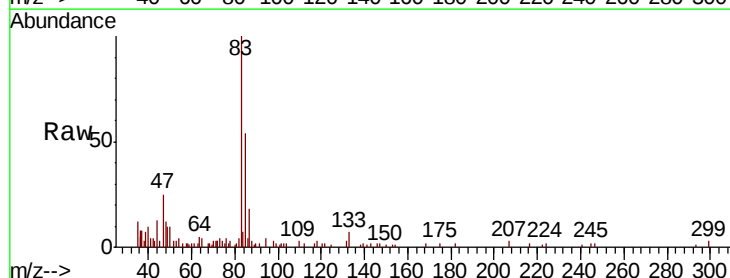
Instrument :
MSVOA_X
ClientSampleId :
MW202D1-20200919

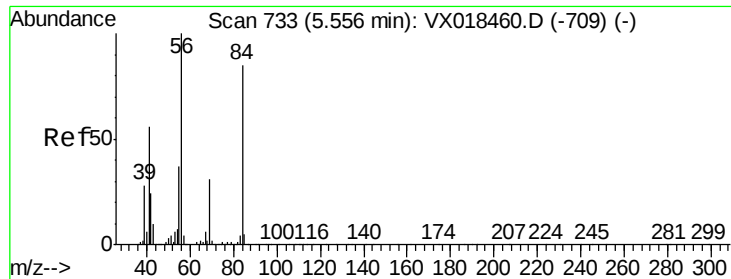
Tot Ion: 42 Resp: 563
Ion Ratio Lower Upper
42 100
72 0.0 34.3 51.5#
71 67.7 32.1 48.1#



#30
Chloroform
Concen: 1.546 ug/l
RT: 5.18 min Scan# 671
Delta R.T. -0.01 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

Tgt Ion: 83 Resp: 13899
Ion Ratio Lower Upper
83 100
85 54.6 50.6 76.0

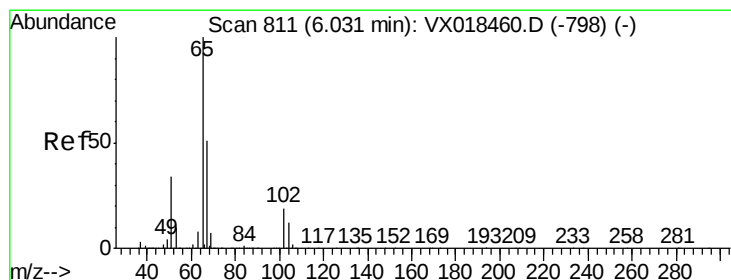
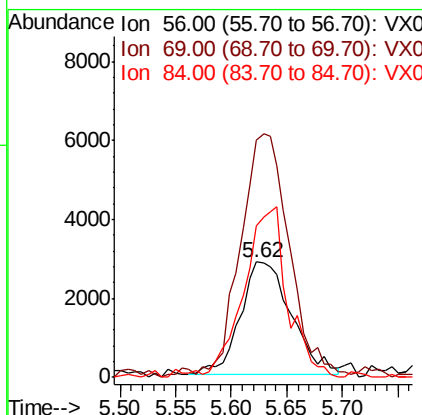
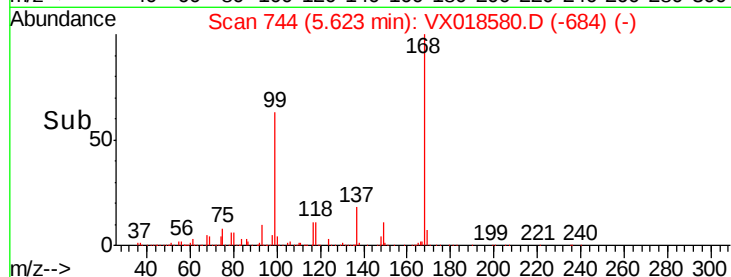
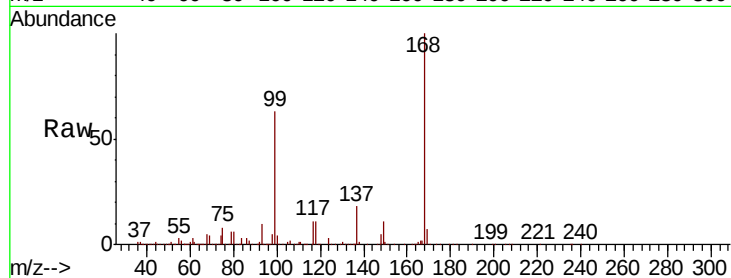




#31
Cyclohexane
Concen: 1.230 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

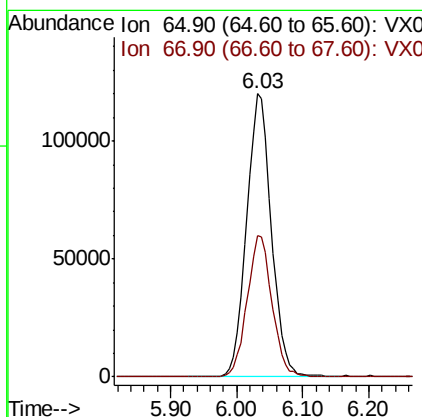
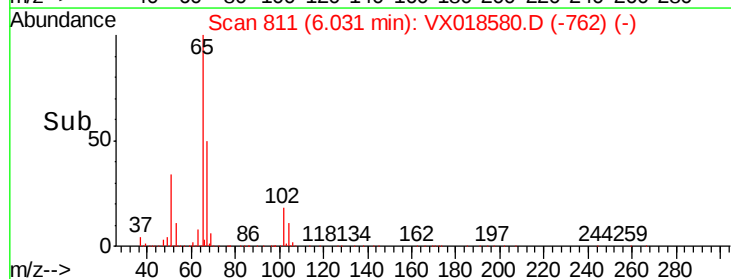
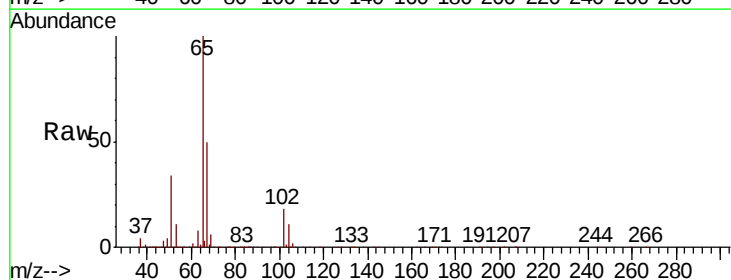
Instrument :
MSVOA_X
ClientSampleId :
MW202D1-20200919

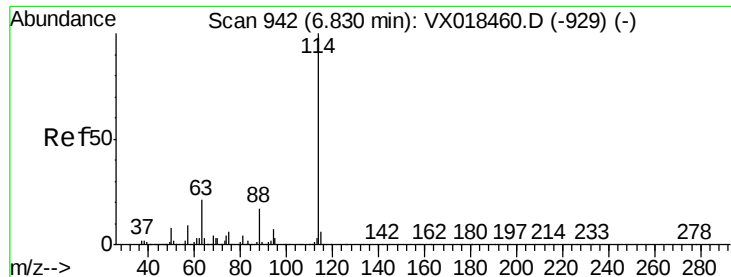
Tot Ion: 56 Resp: 9173
Ion Ratio Lower Upper
56 100
69 205.5 24.8 37.2#
84 134.8 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 50.900 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

Tgt Ion: 65 Resp: 313671
Ion Ratio Lower Upper
65 100
67 50.1 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: VX018580.D

Acq: 24 Sep 2020 18:09

Instrument :

MSVOA_X

ClientSampleId :

MW202D1-20200919

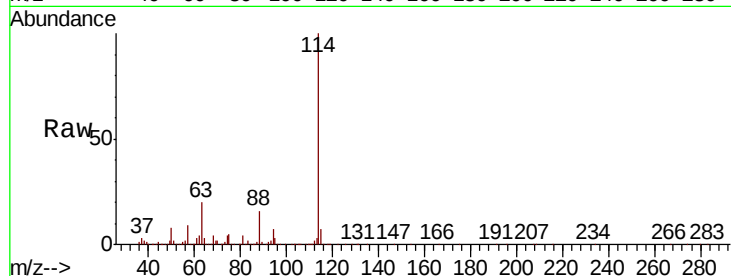
Tot Ion:114 Resp: 695306

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.8

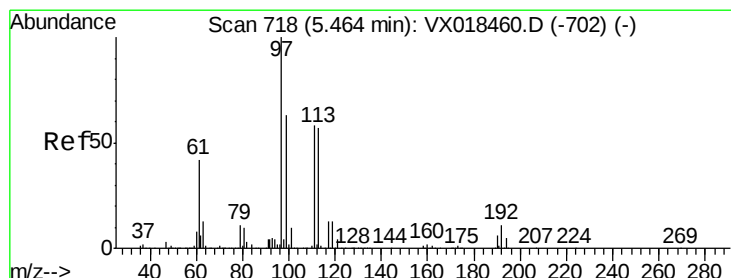
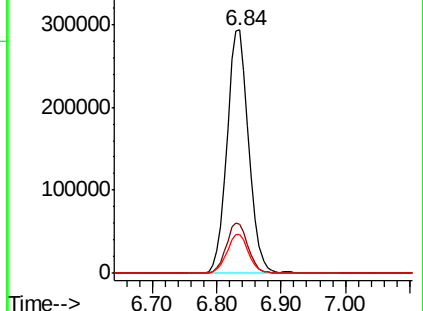
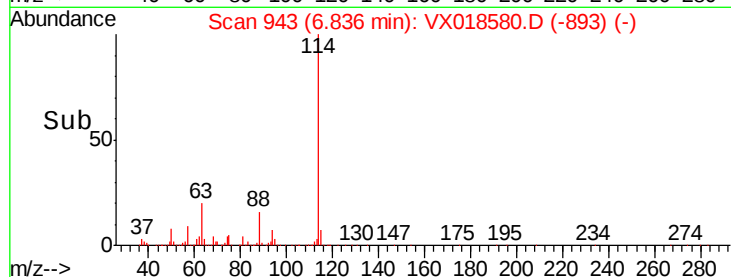
88 15.8 0.0 33.6



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: 50.824 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX018580.D

Acq: 24 Sep 2020 18:09

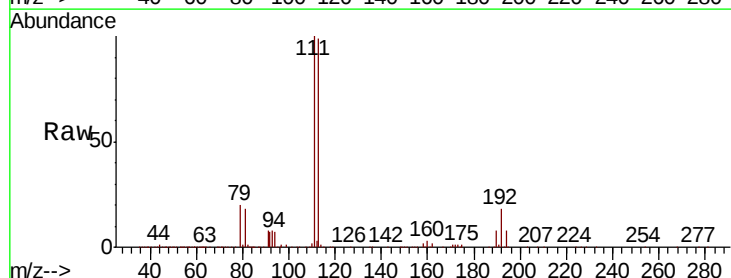
Tgt Ion:113 Resp: 244300

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.2

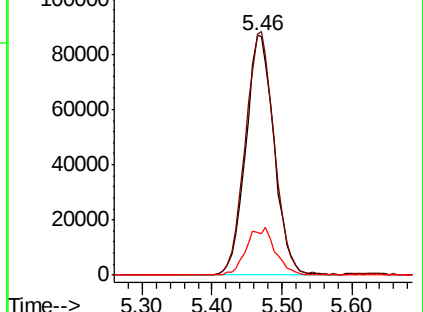
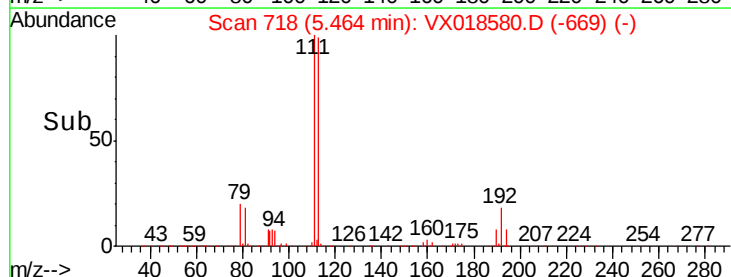
192 20.0 16.6 24.8

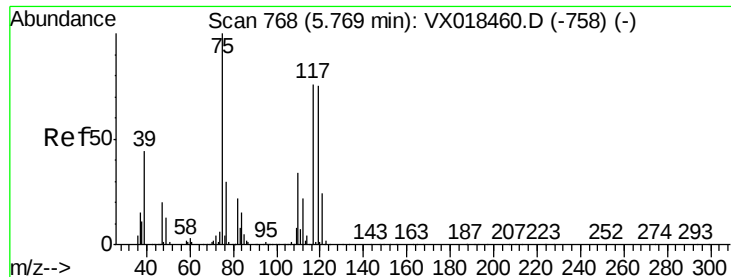


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

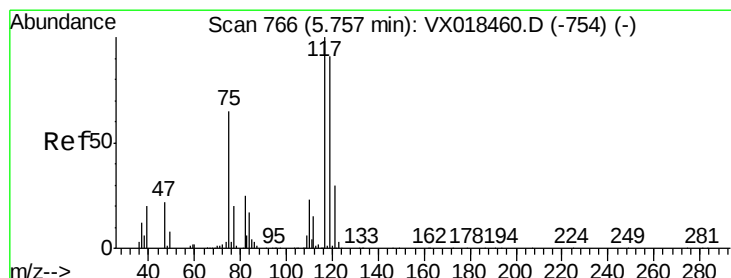
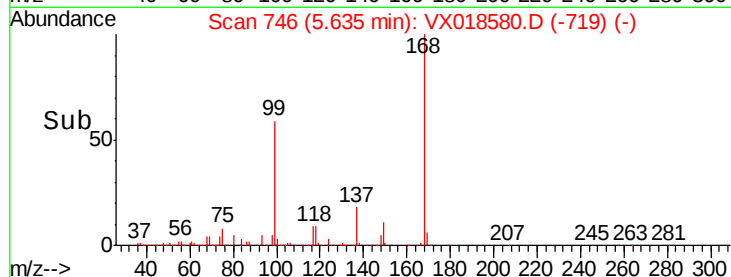
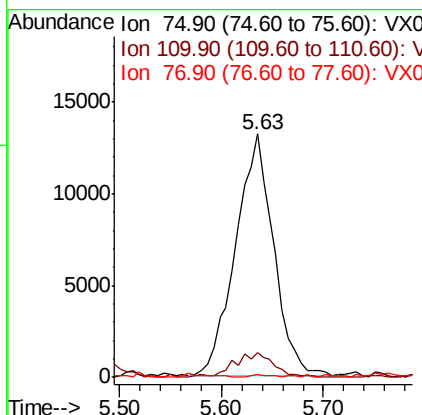
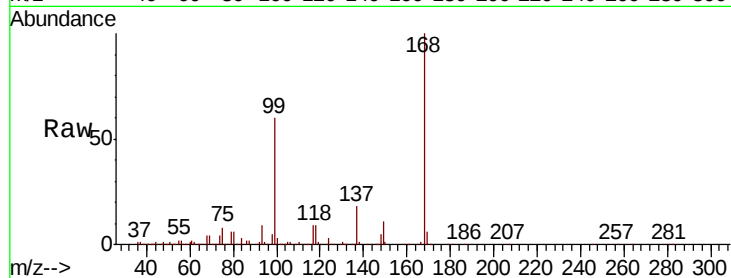




#36
 1,1-Dichloropropene
 Concen: 5.015 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX018580.D
 Acq: 24 Sep 2020 18:09

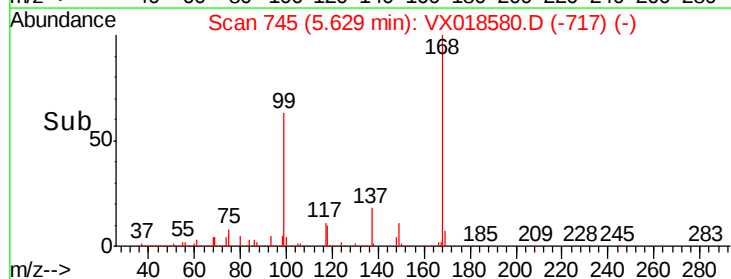
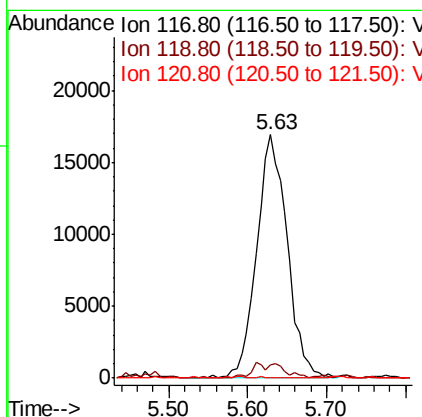
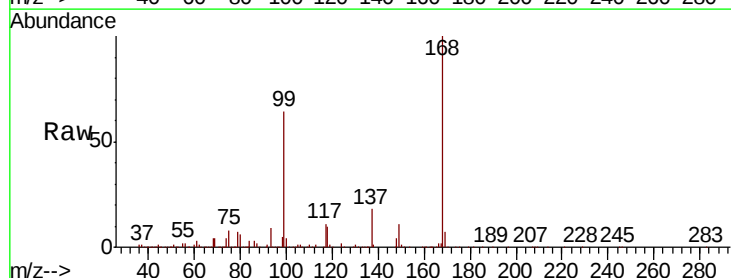
Instrument :
 MSVOA_X
 ClientSampleId :
 MW202D1-20200919

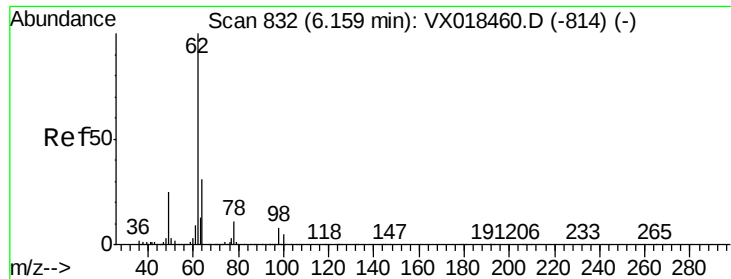
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	17.6	52.8#
77	0.5	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 6.100 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX018580.D
 Acq: 24 Sep 2020 18:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	72.3	108.5#
121	0.0	23.8	35.8#





#42

1,2-Dichloroethane

Concen: 1.404 ug/l

RT: 6.17 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX018580.D

Acq: 24 Sep 2020 18:09

Instrument :

MSVOA_X

ClientSampleId :

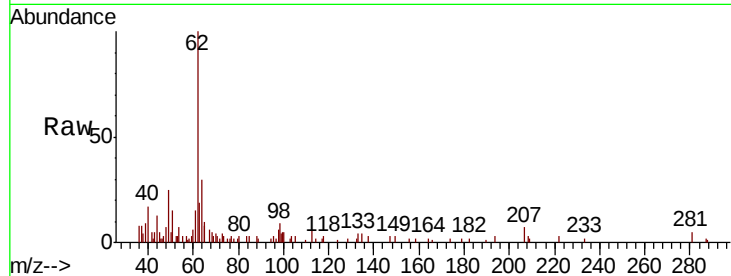
MW202D1-20200919

Tot Ion: 62 Resp: 10566

Ion Ratio Lower Upper

62 100

98 11.8 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.17

4000

3000

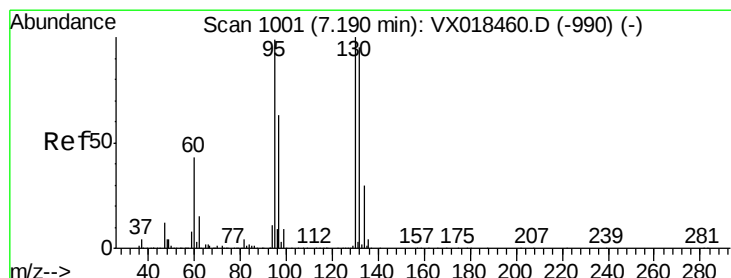
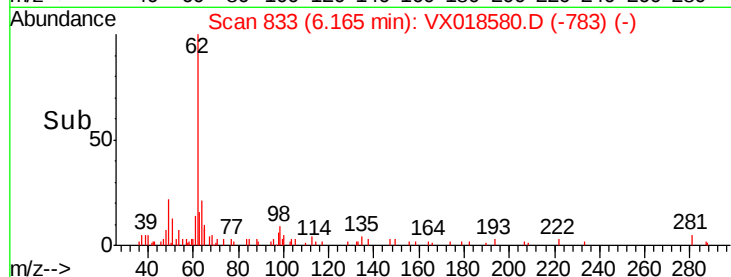
2000

1000

0

6.10 6.20

Time-->



#44

Trichloroethene

Concen: 17.442 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX018580.D

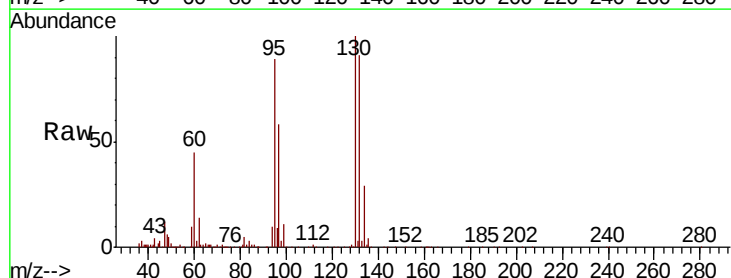
Acq: 24 Sep 2020 18:09

Tgt Ion: 130 Resp: 97656

Ion Ratio Lower Upper

130 100

95 89.5 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

50000

40000

30000

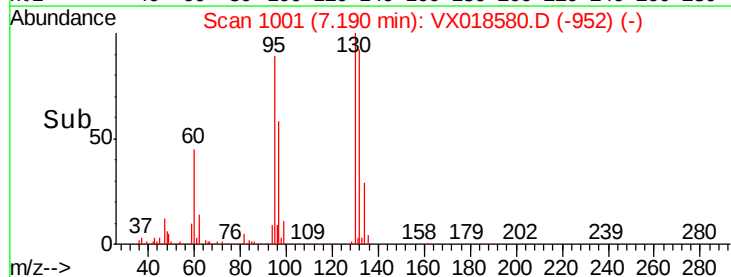
20000

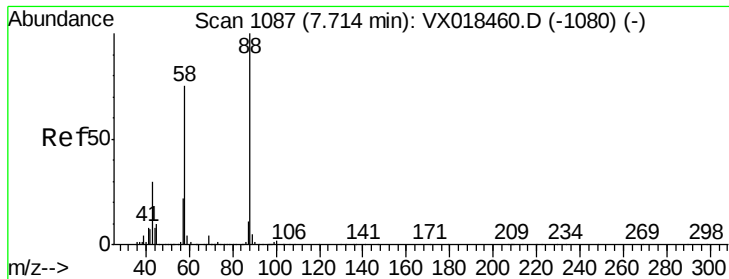
10000

0

7.10 7.20 7.30

Time-->





#49

1,4-Dioxane

Concen: 1.081 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX018580.D

Acq: 24 Sep 2020 18:09

Instrument :

MSVOA_X

ClientSampleId :

MW202D1-20200919

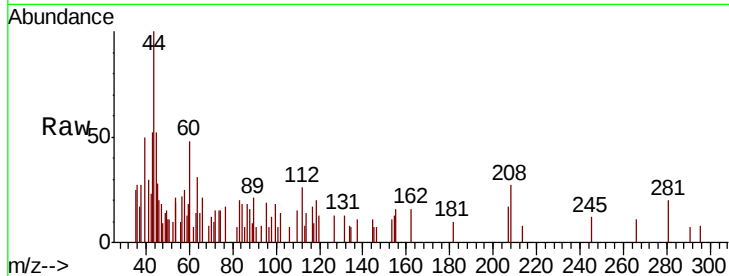
Tot Ion: 88 Resp: 104

Ion Ratio Lower Upper

88 100

43 643.3 29.9 44.9#

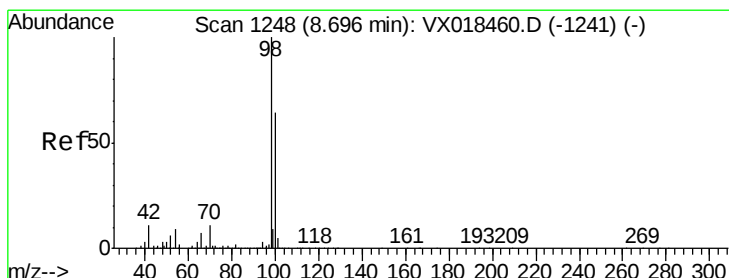
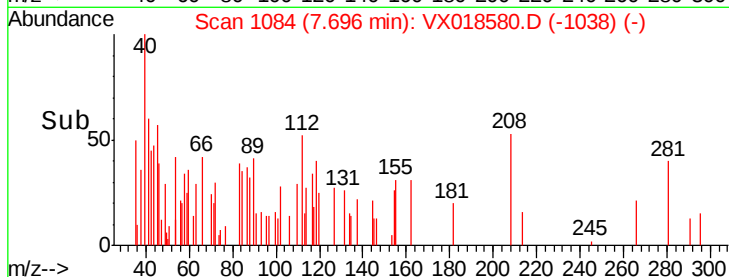
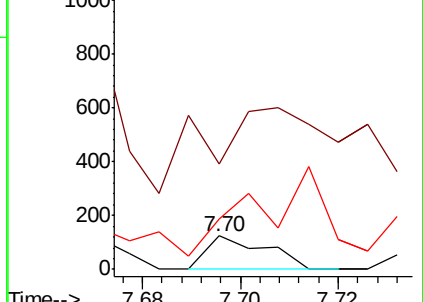
58 416.3 59.0 88.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.035 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018580.D

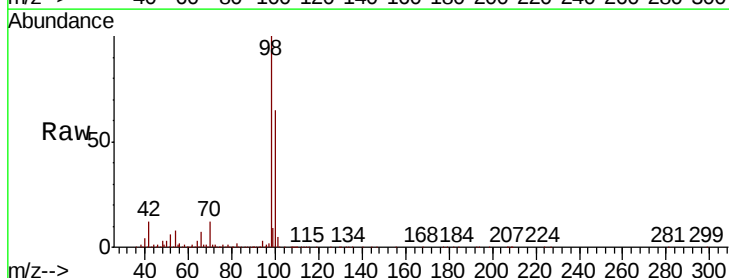
Acq: 24 Sep 2020 18:09

Tgt Ion: 98 Resp: 856369

Ion Ratio Lower Upper

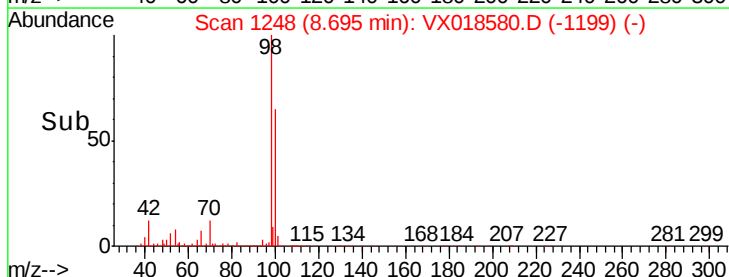
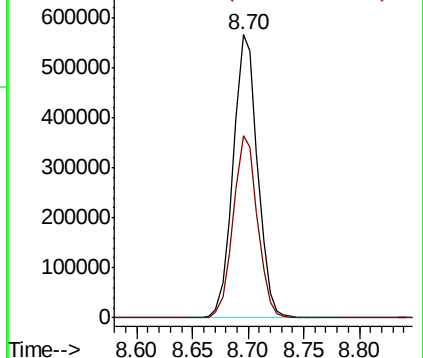
98 100

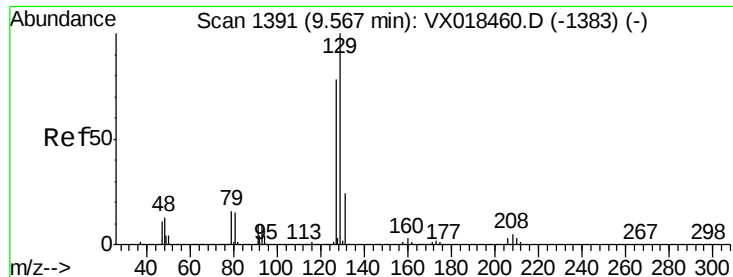
100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 17.120 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX018580.D

Acq: 24 Sep 2020 18:09

Instrument :

MSVOA_X

ClientSampleId :

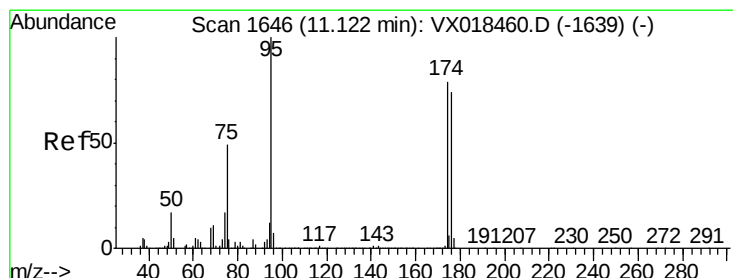
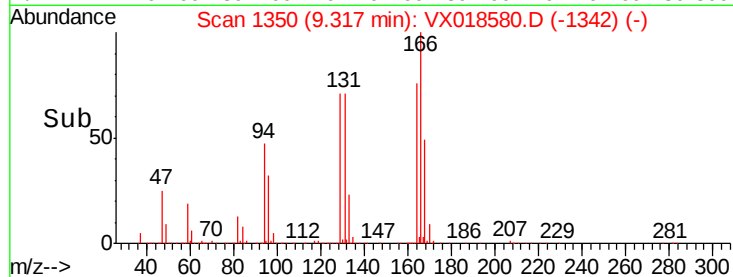
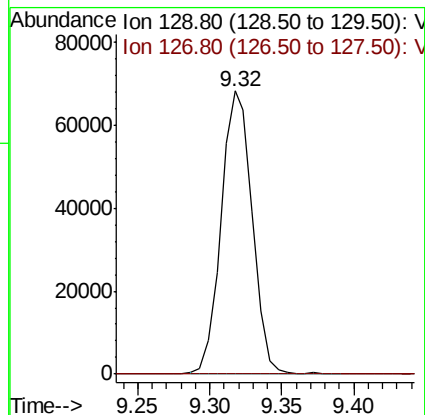
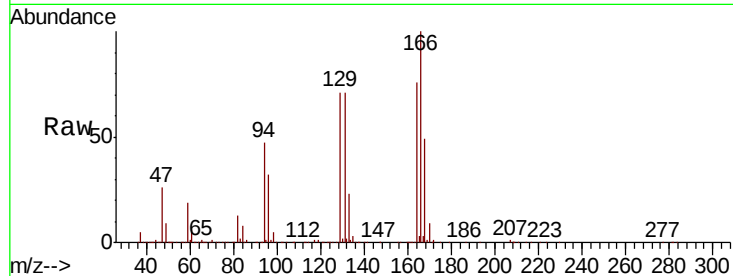
MW202D1-20200919

Tot Ion:129 Resp: 103095

Ion Ratio Lower Upper

129 100

127 0.2 39.0 117.0#



#62

4-Bromofluorobenzene

Concen: 46.215 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018580.D

Acq: 24 Sep 2020 18:09

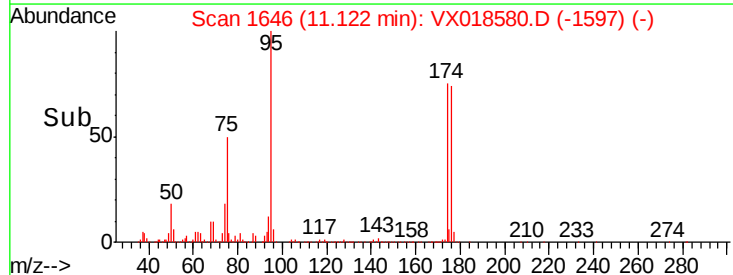
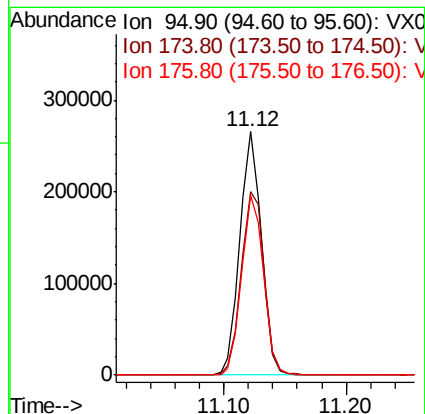
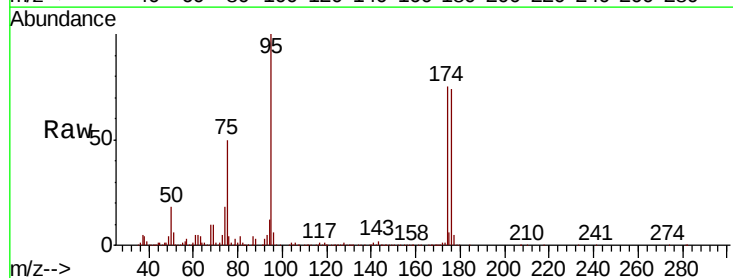
Tgt Ion: 95 Resp: 321054

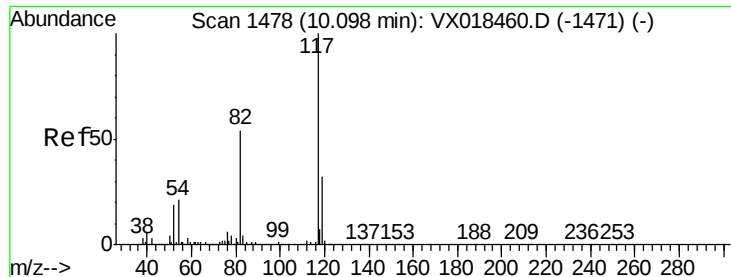
Ion Ratio Lower Upper

95 100

174 80.8 0.0 161.4

176 75.6 0.0 151.4

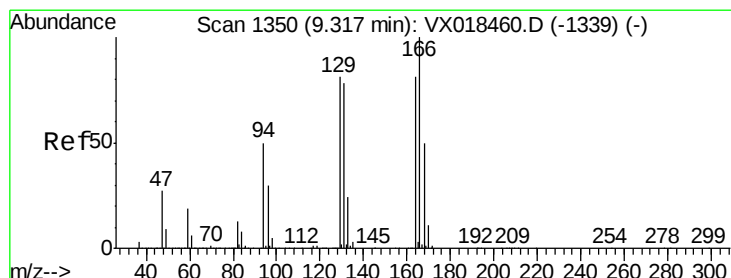
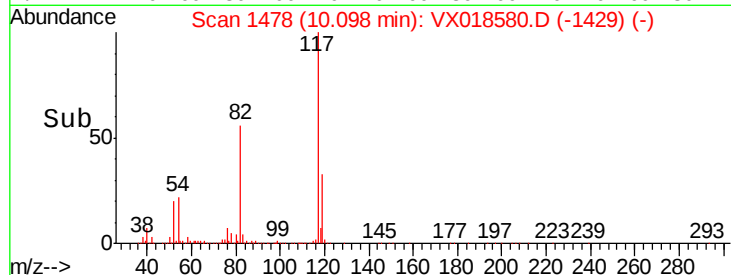
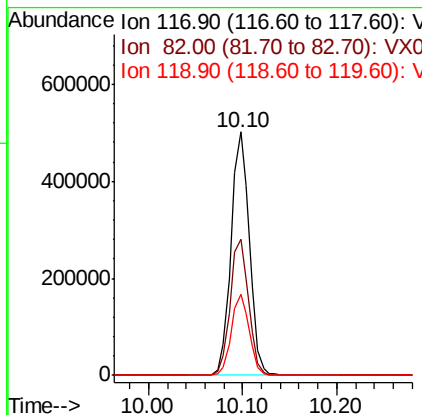
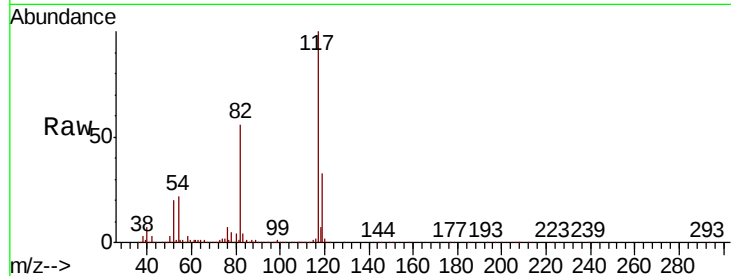




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

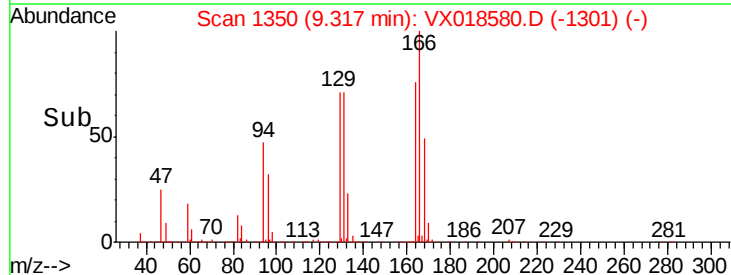
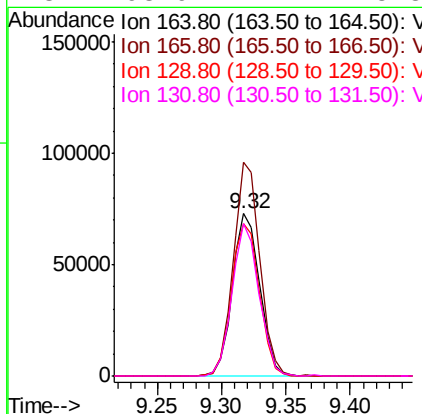
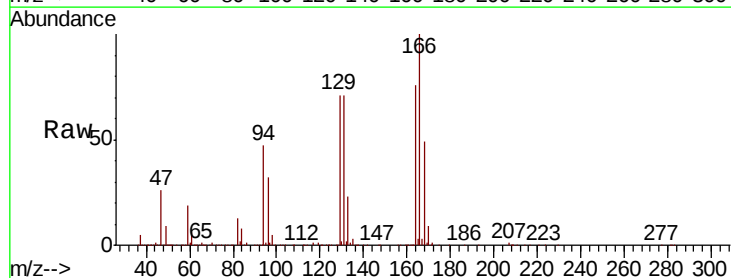
Instrument :
MSVOA_X
ClientSampleId :
MW202D1-20200919

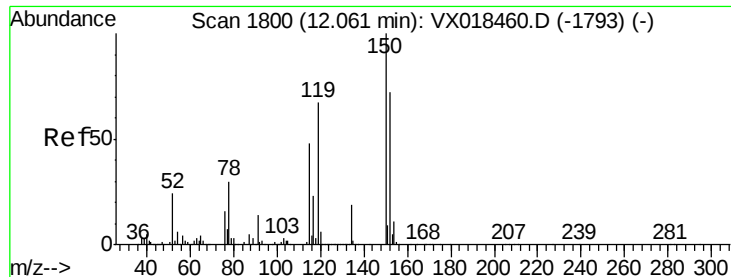
Tot Ion:117 Resp: 675977
Ion Ratio Lower Upper
117 100
82 55.9 43.3 64.9
119 33.3 25.9 38.9



#64
Tetrachloroethene
Concen: 20.245 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX018580.D
Acq: 24 Sep 2020 18:09

Tgt Ion:164 Resp: 107739
Ion Ratio Lower Upper
164 100
166 131.8 99.3 148.9
129 93.7 80.7 121.1
131 93.9 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: VX018580.D

Acq: 24 Sep 2020 18:09

Instrument :

MSVOA_X

ClientSampleId :

MW202D1-20200919

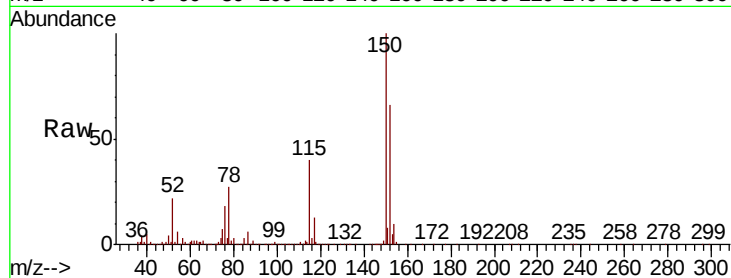
Tot Ion:152 Resp: 329167

Ion Ratio Lower Upper

152 100

115 60.8 41.8 125.4

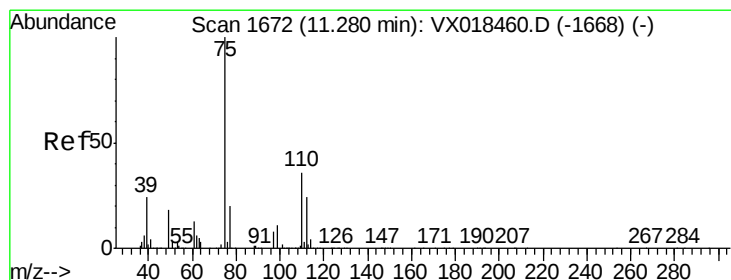
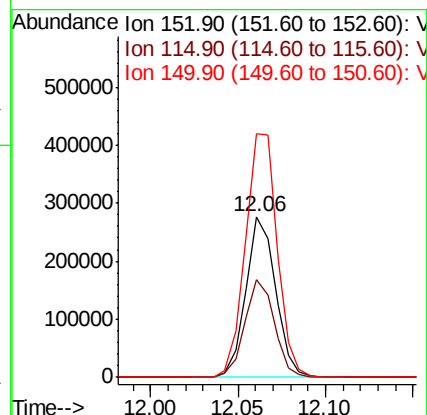
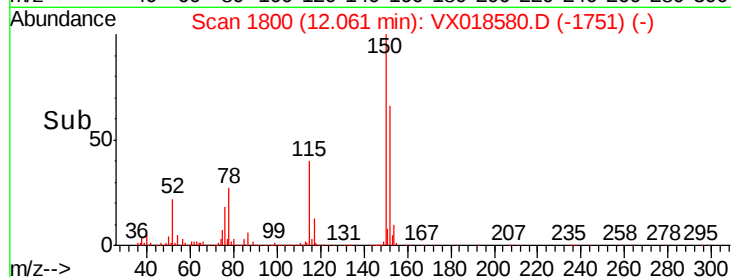
150 162.4 0.0 342.4



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: 24.108 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018580.D

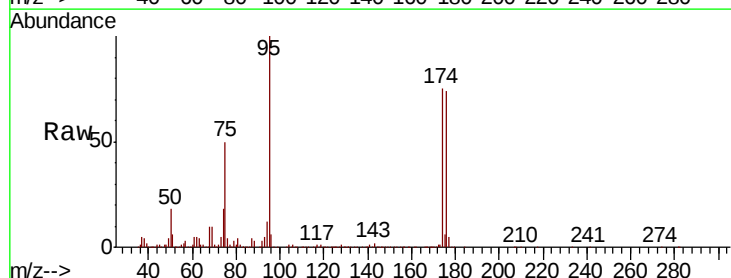
Acq: 24 Sep 2020 18:09

Tgt Ion: 75 Resp: 166762

Ion Ratio Lower Upper

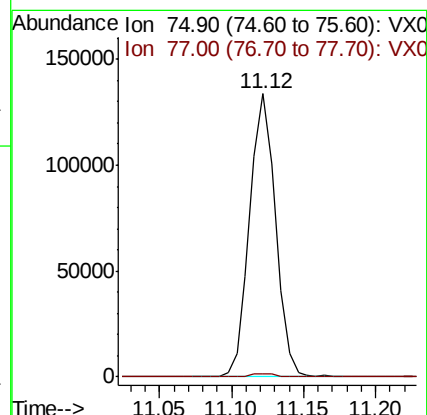
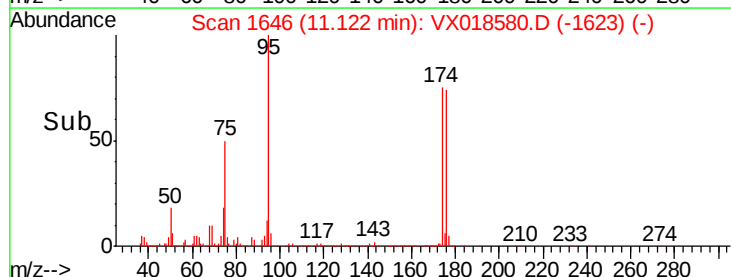
75 100

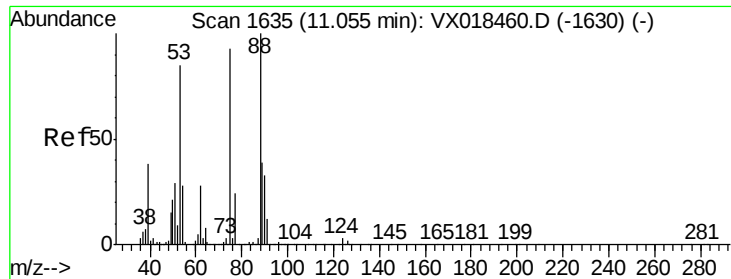
77 1.3 20.9 62.7#



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: 61.777 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018580.D

Acq: 24 Sep 2020 18:09

Instrument :

MSVOA_X

ClientSampleId :

MW202D1-20200919

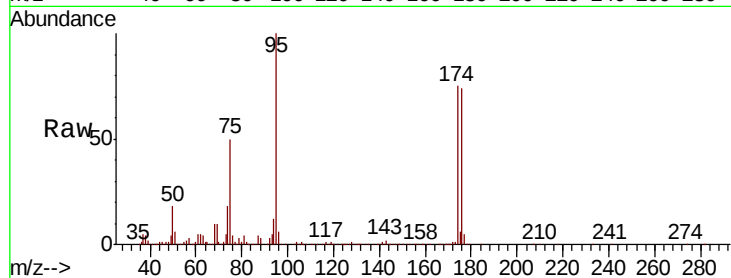
Tot Ion: 75 Resp: 166762

Ion Ratio Lower Upper

75 100

53 0.5 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

