

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100920\
 Data File : VX018861.D
 Acq On : 09 Oct 2020 17:45
 Operator : JC/SP
 Sample : L4336-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

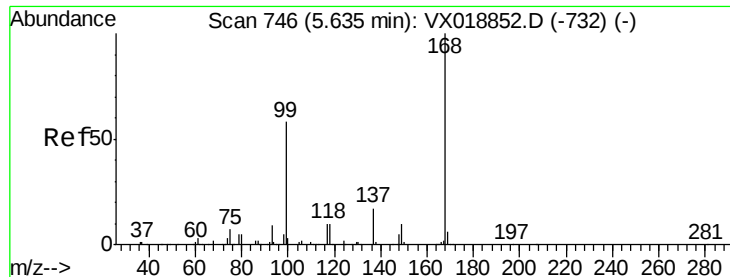
Quant Time: Oct 10 06:19:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 06:09:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	221689	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	344868	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	337056	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	174287	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	164356	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
35) Dibromofluoromethane	5.47	113	124655	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
50) Toluene-d8	8.70	98	429876	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
62) 4-Bromofluorobenzene	11.12	95	164223	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	36	1.632	ug/l #	43
3) Chloromethane	1.31	50	1260	0.606	ug/l	90
5) Bromomethane	1.65	94	552	0.427	ug/l #	45
8) Diethyl Ether	2.25	74	161	1.154	ug/l	80
10) Methyl Iodide	2.51	142	219	4.078	ug/l #	46
11) Tert butyl alcohol	2.99	59	537	1.043	ug/l #	63
12) 1,1-Dichloroethene	2.34	96	136	0.770	ug/l #	1
13) Acrolein	2.27	56	243	0.567	ug/l #	1
15) Acrylonitrile	3.13	53	244	0.223	ug/l #	68
16) Acetone	2.42	43	3207	Below Cal		94
17) Carbon Disulfide	2.55	76	1394	0.232	ug/l #	93
20) Methylene Chloride	2.84	84	1602	1.184	ug/l #	71
28) Bromochloromethane	4.99	49	102	1.572	ug/l #	99
29) Tetrahydrofuran	5.10	42	348	0.366	ug/l #	41
31) Cyclohexane	5.63	56	5490	1.798	ug/l #	21
36) 1,1-Dichloropropene	5.63	75	17305	4.773	ug/l #	52
38) Carbon Tetrachloride	5.63	117	23761	5.287	ug/l #	20
49) 1,4-Dioxane	7.74	88	79	1.908	ug/l #	1
56) Ethyl methacrylate	9.13	69	101	2.959	ug/l #	60
64) Tetrachloroethene	9.32	164	203	Below Cal	#	62
76) 1,2,3-Trichloropropane	11.12	75	87748	23.366	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	87748	66.219	ug/l #	8
95) Naphthalene	13.82	128	621	3.126	ug/l #	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

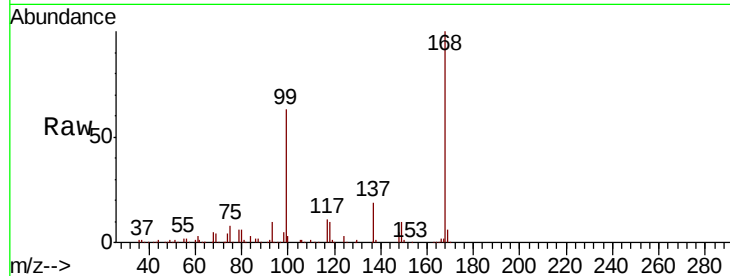
STORAGE-BLANK-WATER-REF-5

Tot Ion:168 Resp: 221689

Ion Ratio Lower Upper

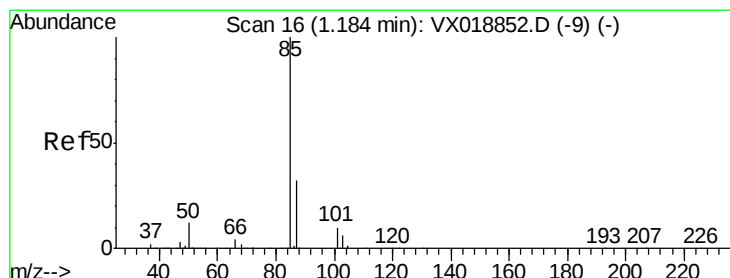
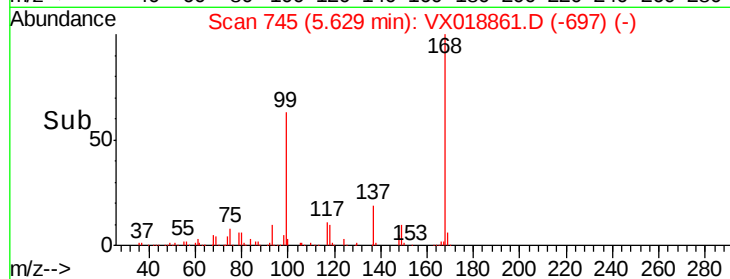
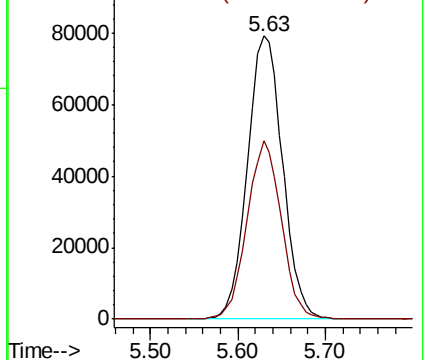
168 100

99 63.1 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 1.632 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018861.D

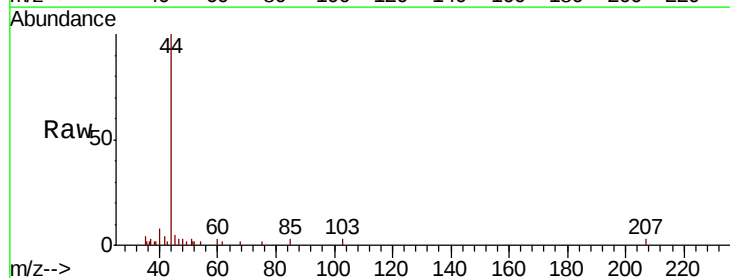
Acq: 09 Oct 2020 17:45

Tgt Ion: 85 Resp: 36

Ion Ratio Lower Upper

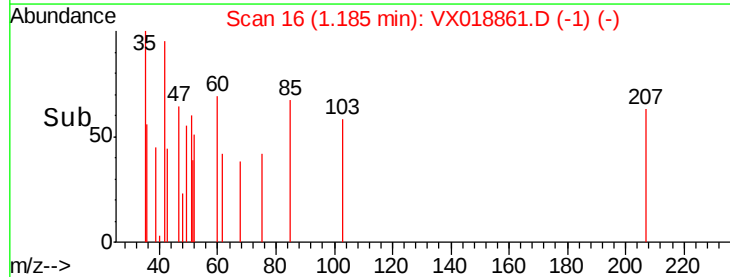
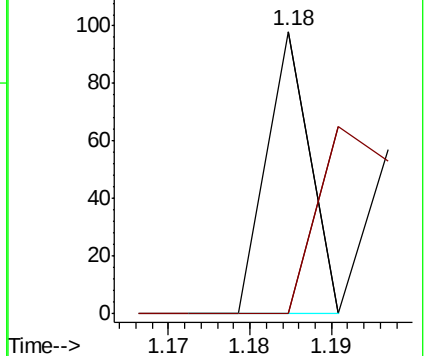
85 100

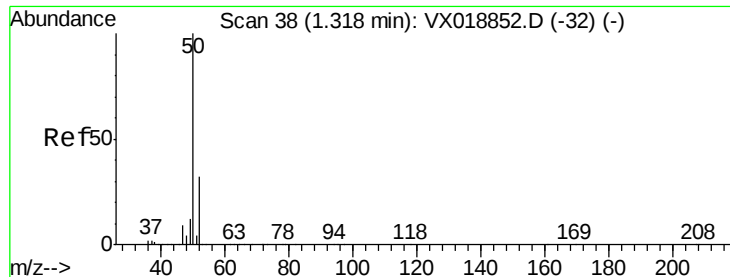
87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.606 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.01 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

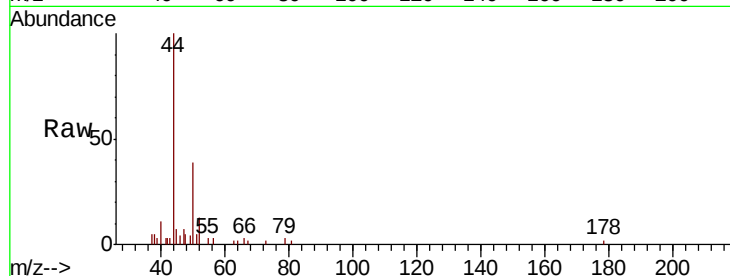
STORAGE-BLANK-WATER-REF-5

Tot Ion: 50 Resp: 1260

Ion Ratio Lower Upper

50 100

52 25.8 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

600

400

200

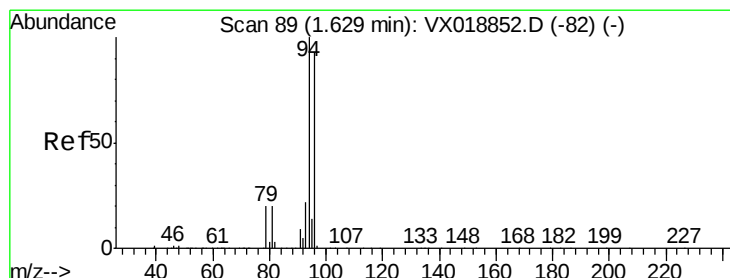
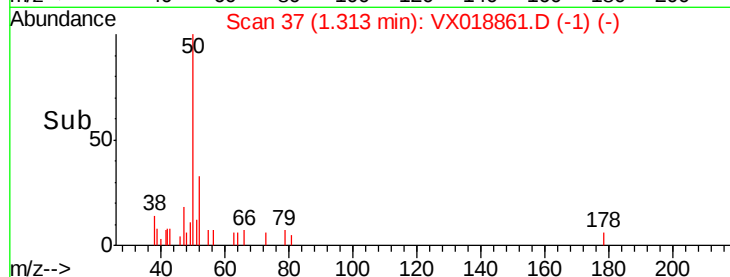
0

1.25

1.30

1.35

Time-->



#5

Bromomethane

Concen: 0.427 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018861.D

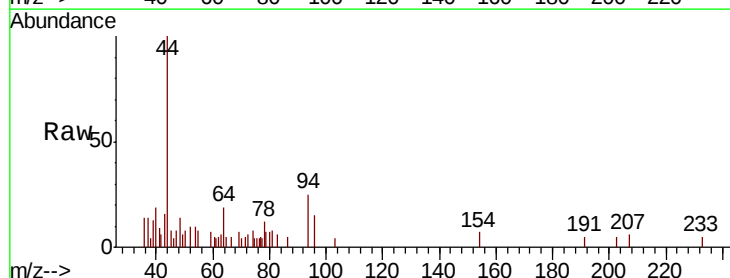
Acq: 09 Oct 2020 17:45

Tgt Ion: 94 Resp: 552

Ion Ratio Lower Upper

94 100

96 40.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

300

200

100

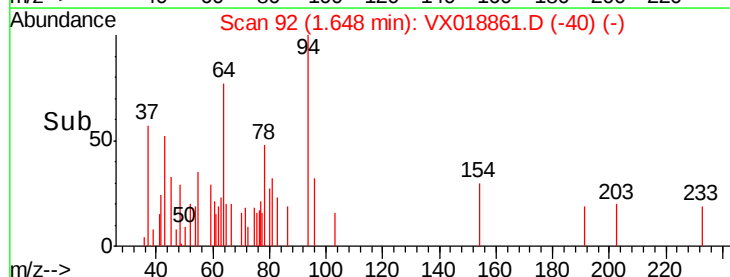
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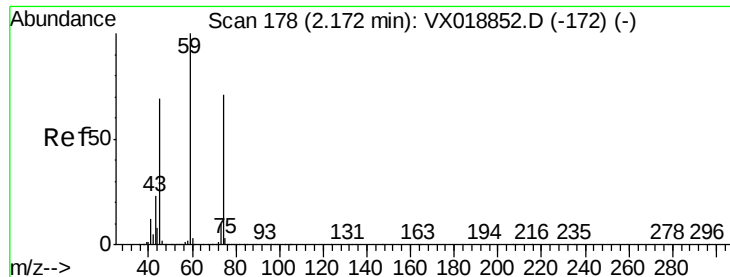
1.60

1.65

1.70

Time-->





#8

Diethyl Ether

Concen: 1.154 ug/l

RT: 2.25 min Scan# 190

Delta R.T. 0.07 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

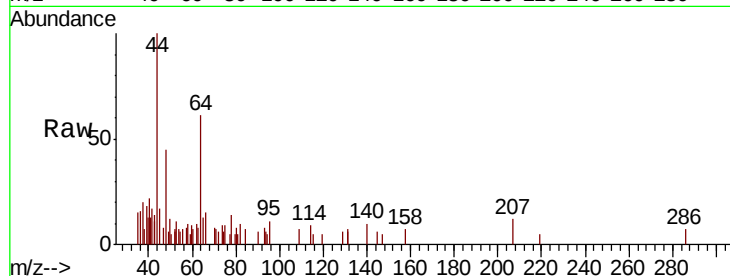
STORAGE-BLANK-WATER-REF-5

Tot Ion: 74 Resp: 161

Ion Ratio Lower Upper

74 100

45 113.7 47.0 141.2

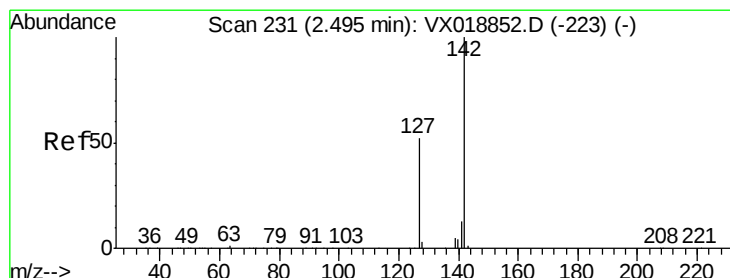
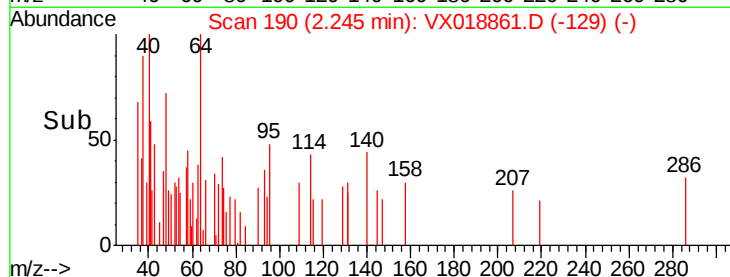


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.25

Time-->



#10

Methyl Iodide

Concen: 4.078 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

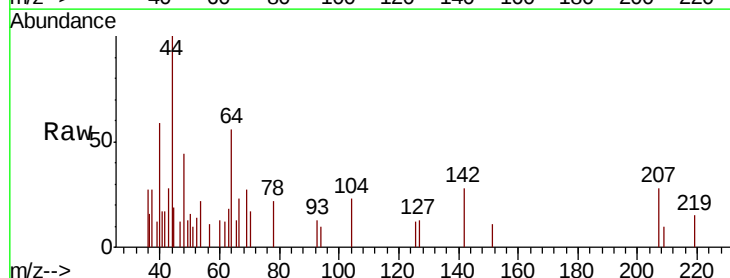
Tgt Ion: 142 Resp: 219

Ion Ratio Lower Upper

142 100

127 11.0 42.0 63.0#

141 0.0 11.8 17.6#



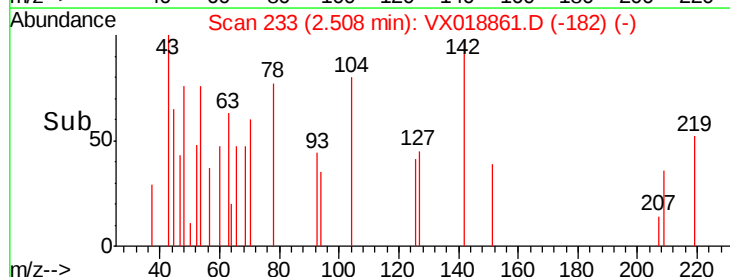
Abundance Ion 141.80 (141.50 to 142.50): V

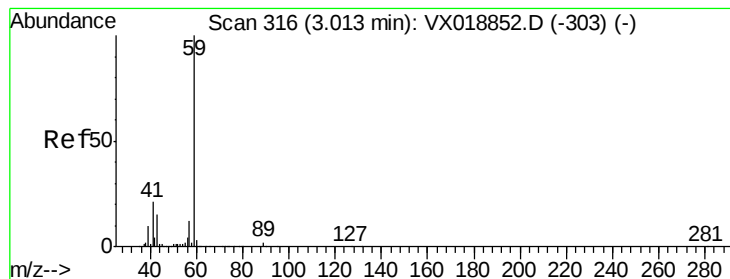
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.51

Time-->



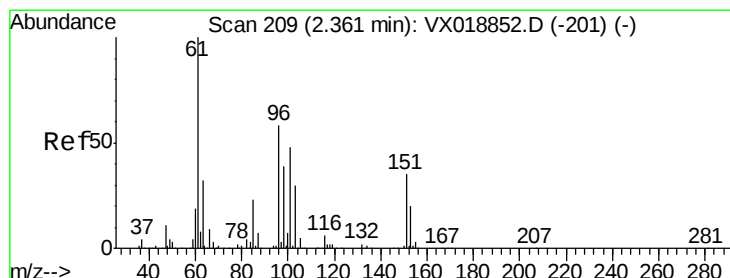
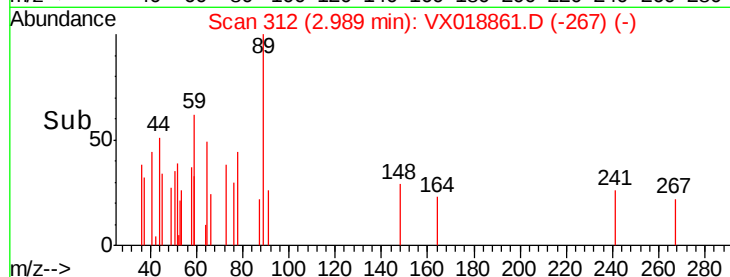
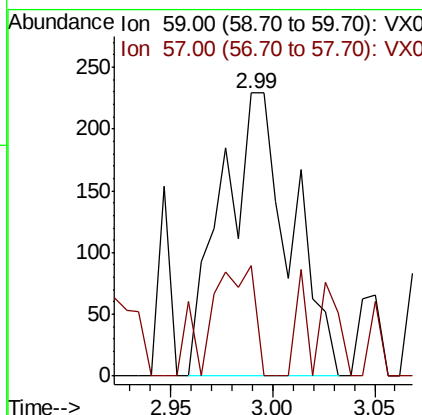
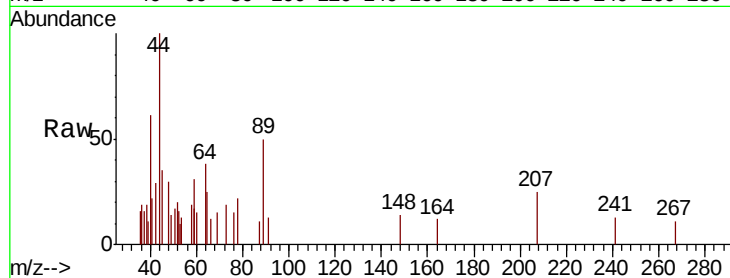


#11

Tert butyl alcohol
 Concen: 1.043 ug/l
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX018861.D
 Acq: 09 Oct 2020 17:45

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

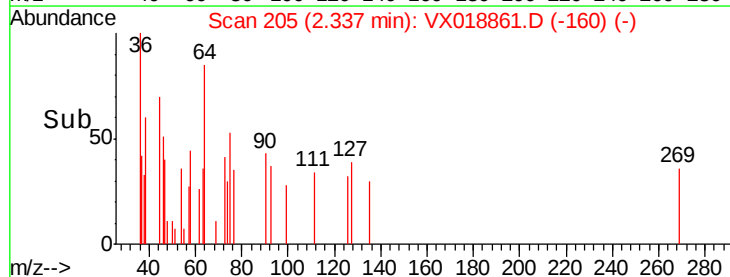
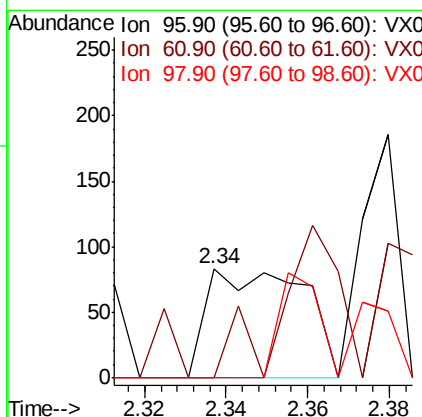
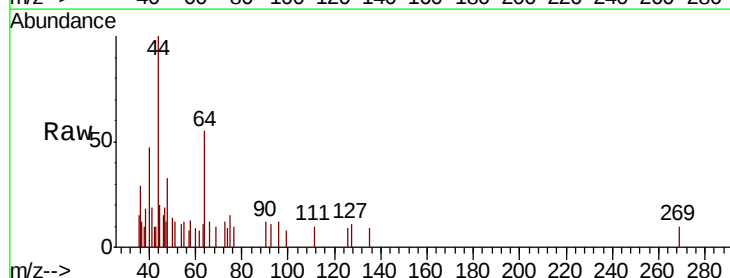
Tot Ion: 59 Resp: 537
 Ion Ratio Lower Upper
 59 100
 57 25.3 9.0 13.6#

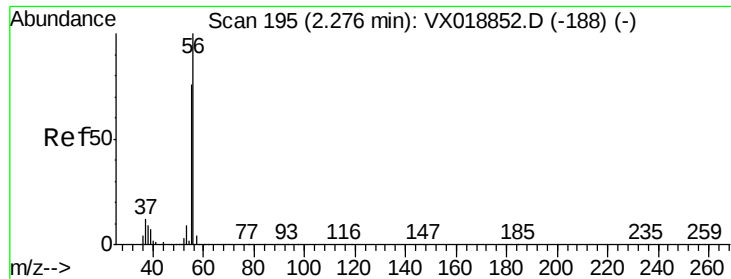


#12

1,1-Dichloroethene
 Concen: 0.770 ug/l
 RT: 2.34 min Scan# 205
 Delta R.T. -0.02 min
 Lab File: VX018861.D
 Acq: 09 Oct 2020 17:45

Tgt Ion: 96 Resp: 136
 Ion Ratio Lower Upper
 96 100
 61 0.0 137.0 205.6#
 98 0.0 53.9 80.9#





#13

Acrolein

Concen: 0.567 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

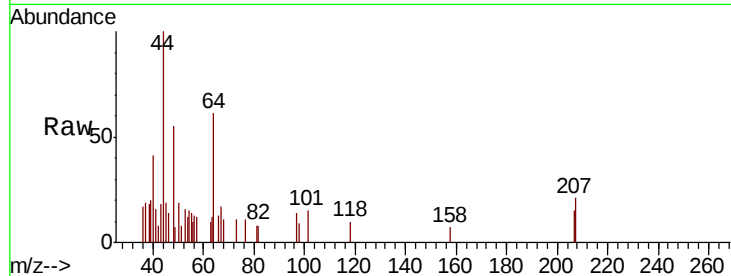
STORAGE-BLANK-WATER-REF-5

Tot Ion: 56 Resp: 243

Ion Ratio Lower Upper

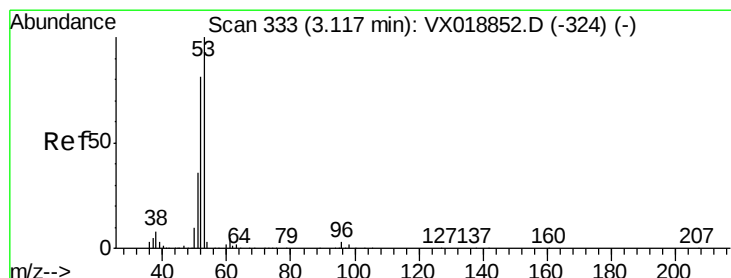
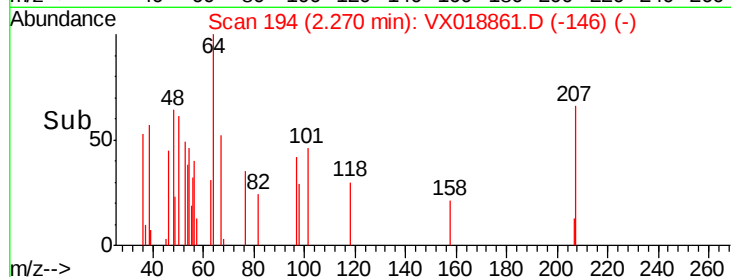
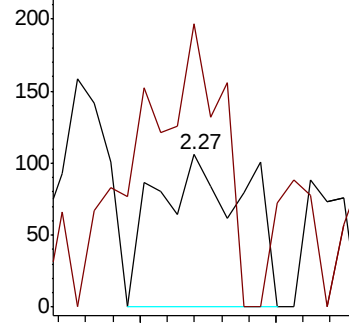
56 100

55 177.4 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.223 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

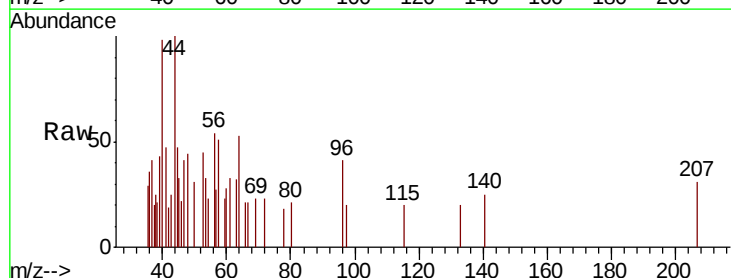
Tgt Ion: 53 Resp: 244

Ion Ratio Lower Upper

53 100

52 61.9 66.7 100.1#

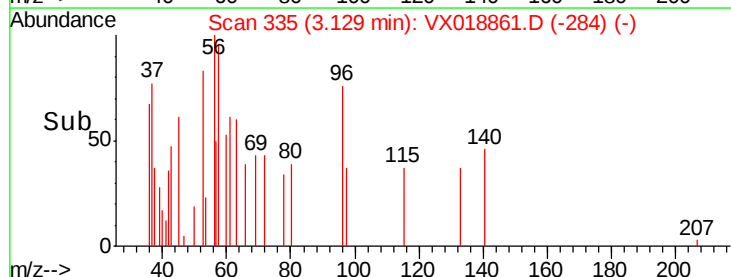
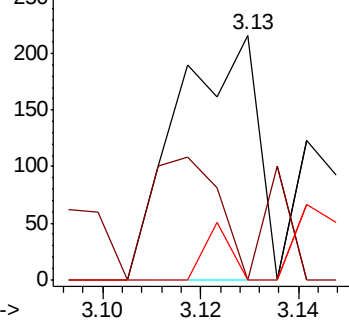
51 7.8 30.3 45.5#

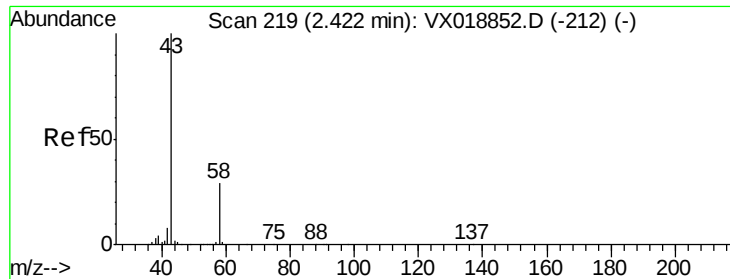


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

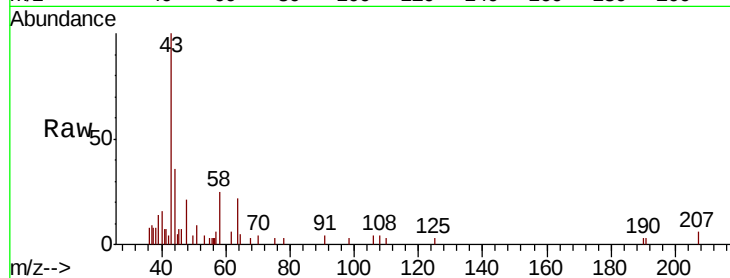
STORAGE-BLANK-WATER-REF-5

Tot Ion: 43 Resp: 3207

Ion Ratio Lower Upper

43 100

58 25.5 23.0 34.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

2000

1500

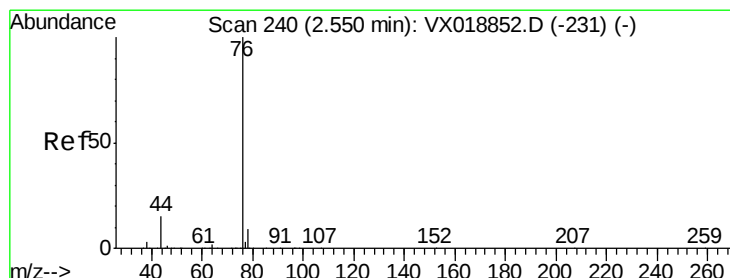
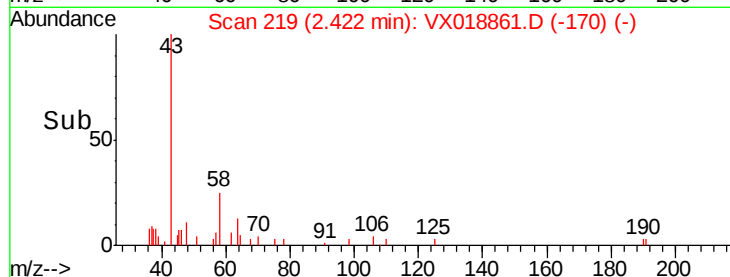
1000

500

0

2.35 2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.232 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX018861.D

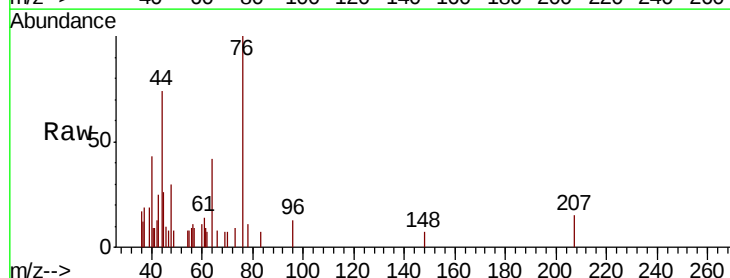
Acq: 09 Oct 2020 17:45

Tgt Ion: 76 Resp: 1394

Ion Ratio Lower Upper

76 100

78 11.5 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.55

800

600

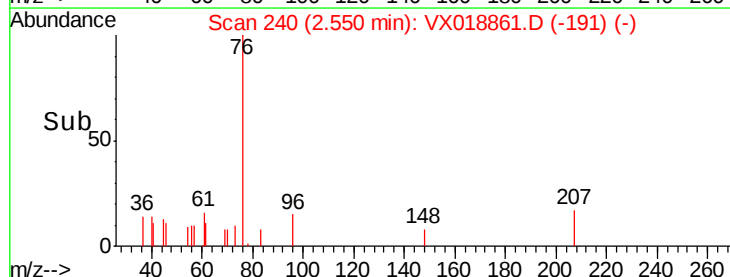
400

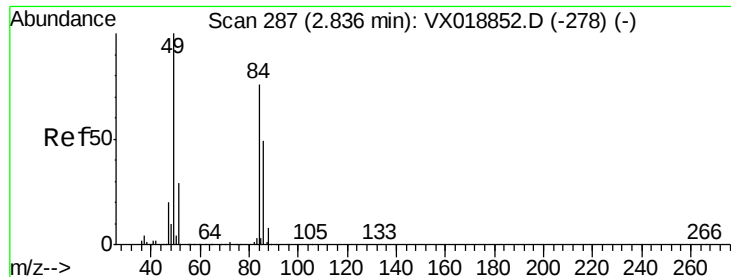
200

0

2.50 2.55 2.60

Time-->

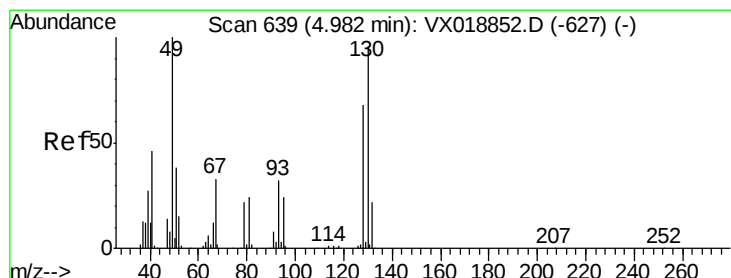
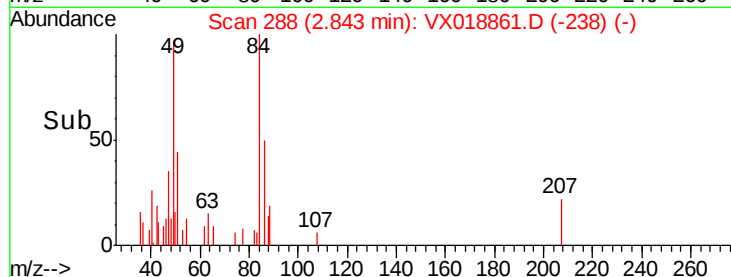
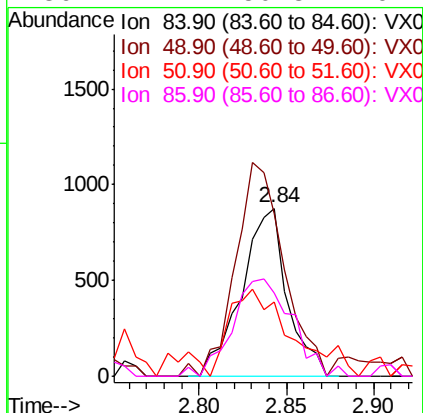
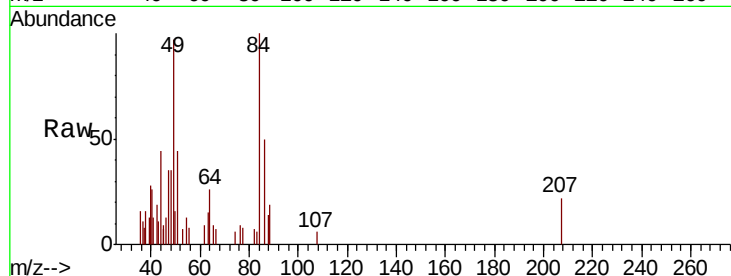




#20
Methvlene Chloride
Concen: 1.184 ug/l
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX018861.D
Acq: 09 Oct 2020 17:45

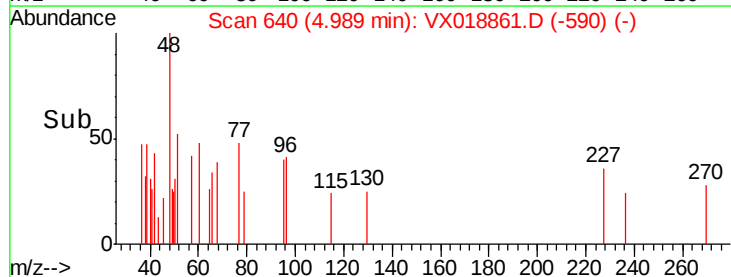
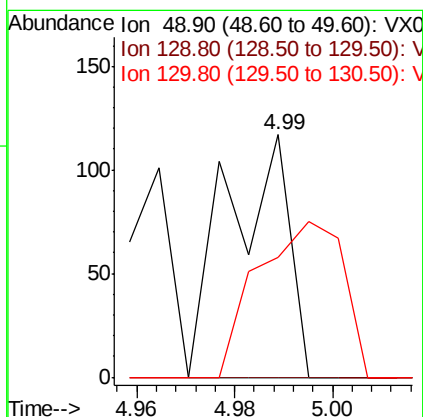
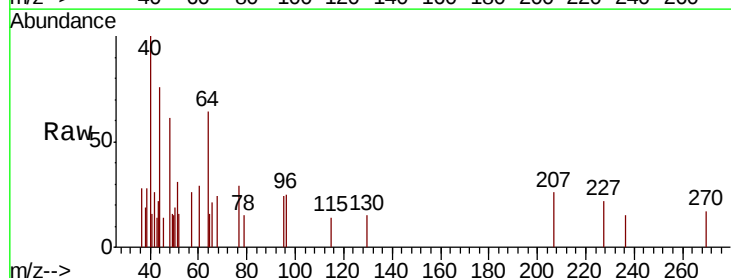
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

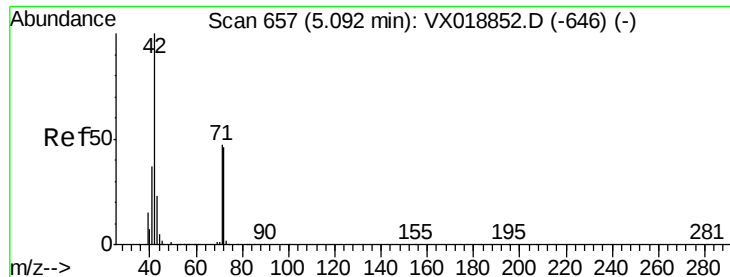
Tot Ion: 84 Resp: 1602
Ion Ratio Lower Upper
84 100
49 89.5 104.8 157.2#
51 29.7 30.6 46.0#
86 44.1 50.8 76.2#



#28
Bromochloromethane
Concen: 1.572 ug/l
RT: 4.99 min Scan# 640
Delta R.T. 0.01 min
Lab File: VX018861.D
Acq: 09 Oct 2020 17:45

Tgt Ion: 49 Resp: 102
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 90.2 71.2 106.8





#29

Tetrahydrofuran

Concen: 0.366 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

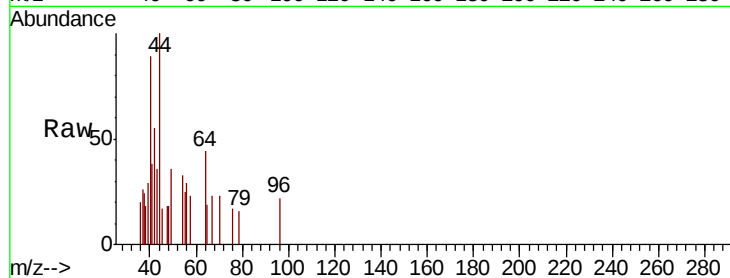
Tot Ion: 42 Resp: 348

Ion Ratio Lower Upper

42 100

72 0.0 36.4 54.6#

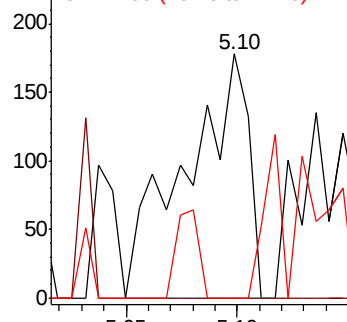
71 12.9 35.2 52.8#



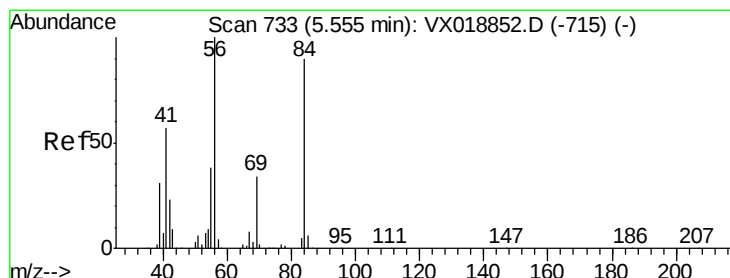
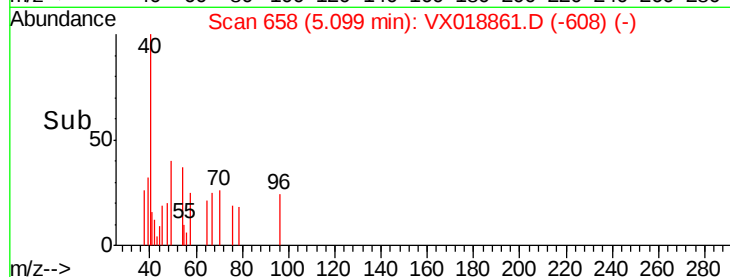
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#31

Cyclohexane

Concen: 1.798 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.07 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

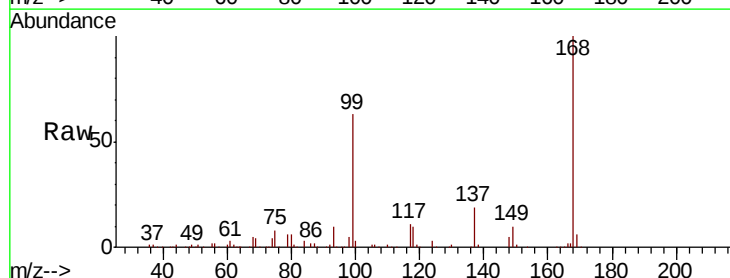
Tgt Ion: 56 Resp: 5490

Ion Ratio Lower Upper

56 100

69 161.6 27.1 40.7#

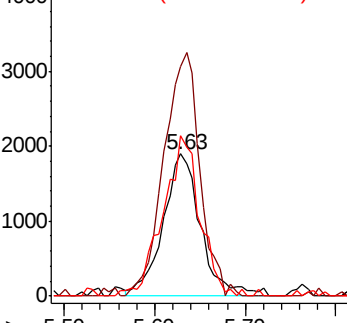
84 112.8 71.7 107.5#



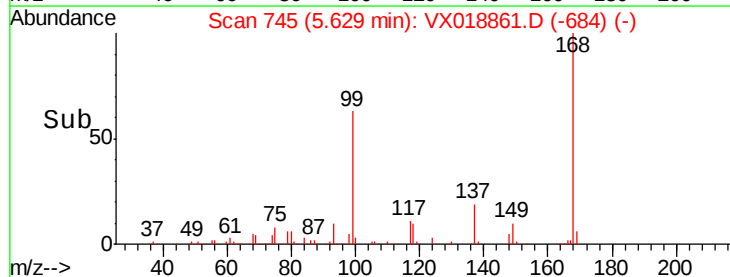
Abundance Ion 56.00 (55.70 to 56.70): VX0

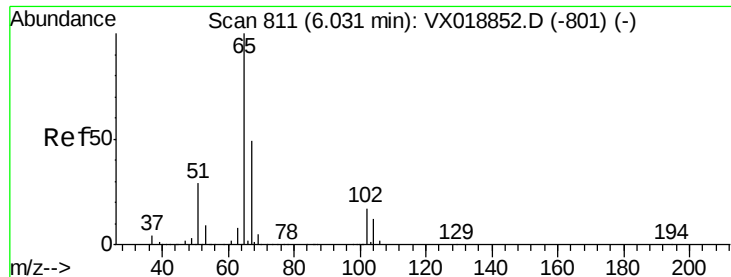
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 50.266 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

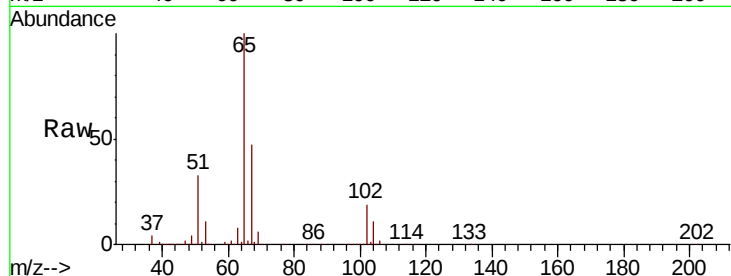
STORAGE-BLANK-WATER-REF-5

Tot Ion: 65 Resp: 164356

Ion Ratio Lower Upper

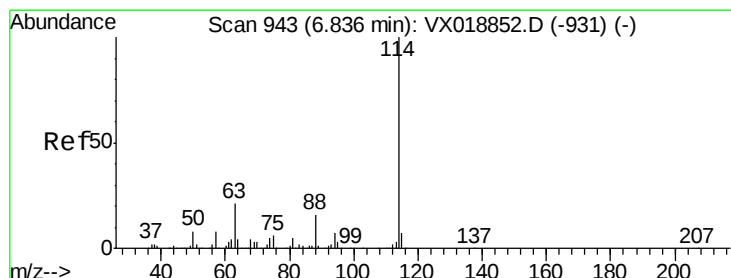
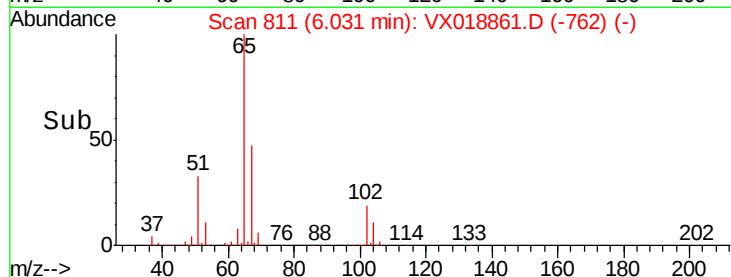
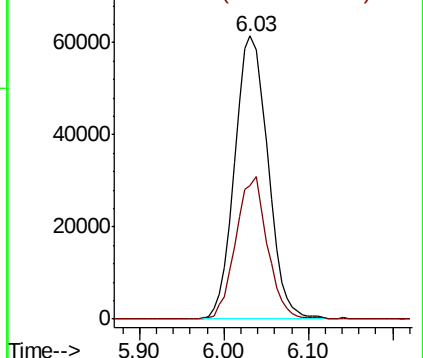
65 100

67 48.1 0.0 97.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

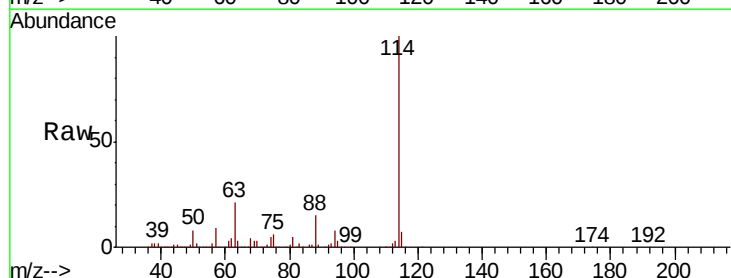
Tgt Ion: 114 Resp: 344868

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.4

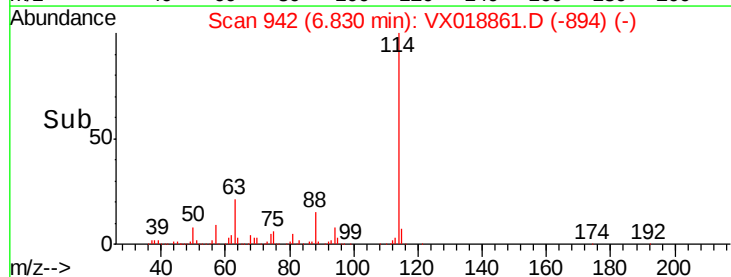
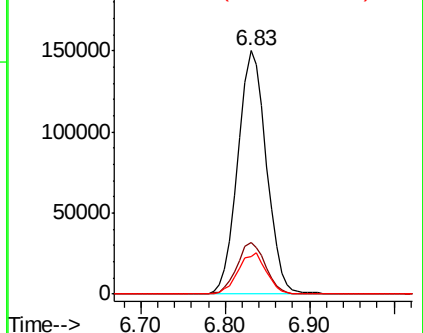
88 15.5 0.0 32.6

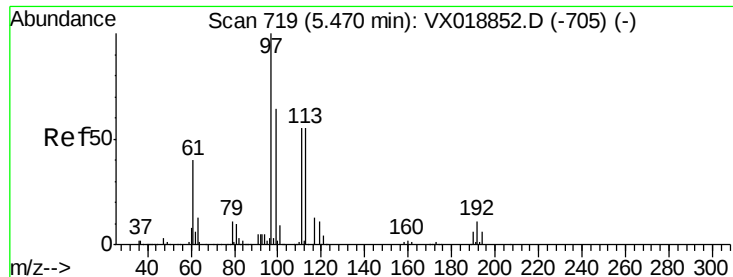


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

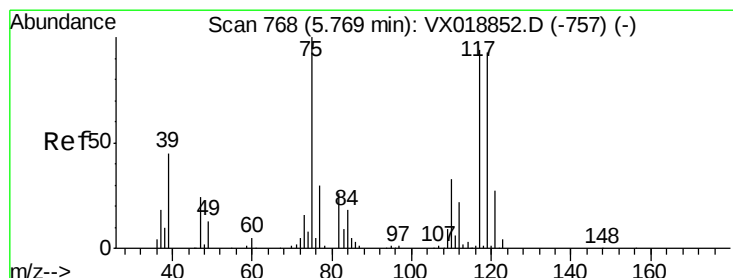
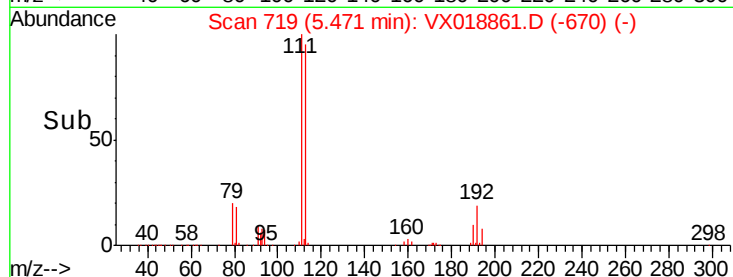
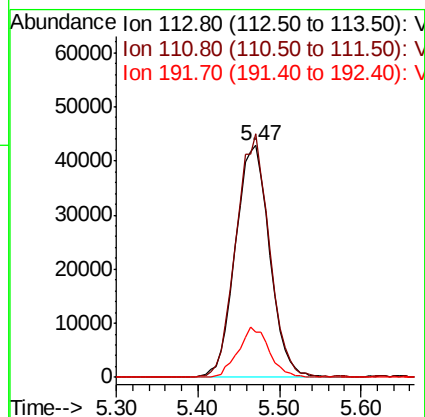
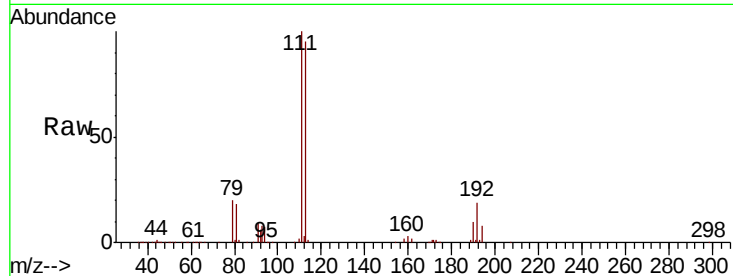




#35
 Dibromofluoromethane
 Concen: 50.719 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.00 min
 Lab File: VX018861.D
 Acq: 09 Oct 2020 17:45

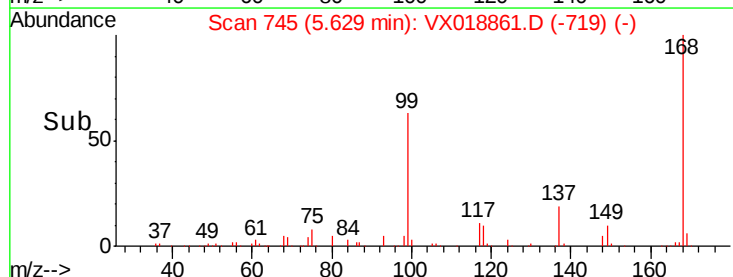
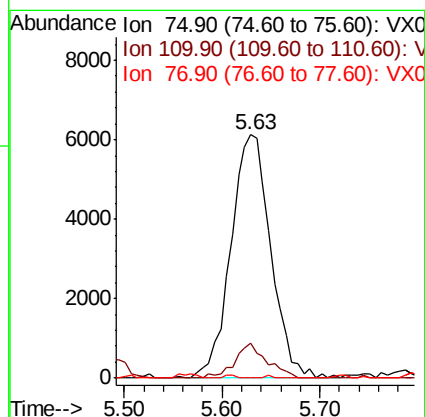
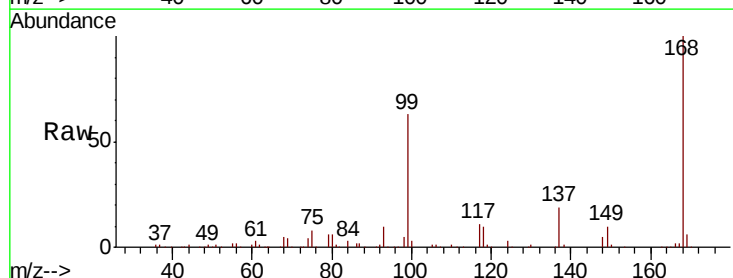
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

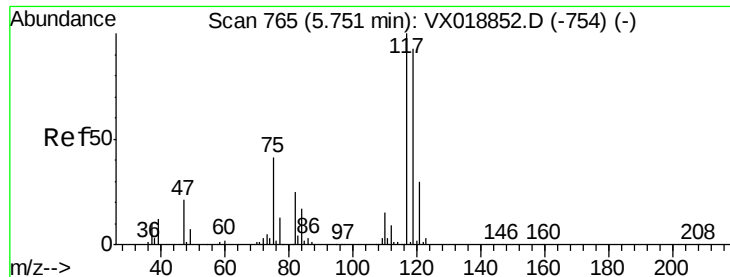
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.1	120.1
192	19.6	16.0	24.0



#36
 1,1-Dichloropropene
 Concen: 4.773 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018861.D
 Acq: 09 Oct 2020 17:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.6	17.8	53.5#
77	0.2	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 5.287 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

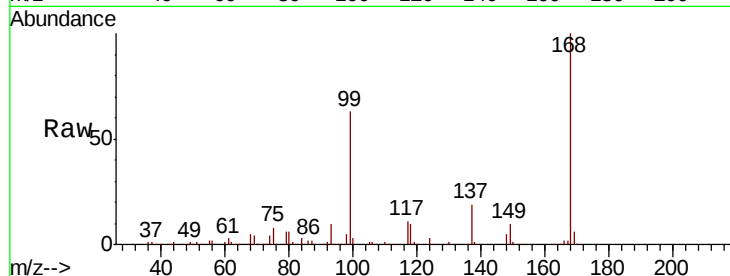
Tot Ion:117 Resp: 23761

Ion Ratio Lower Upper

117 100

119 8.1 73.9 110.9#

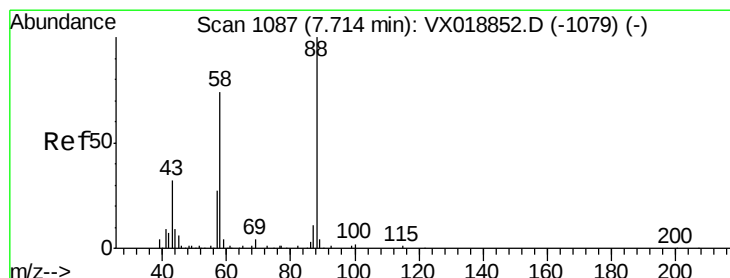
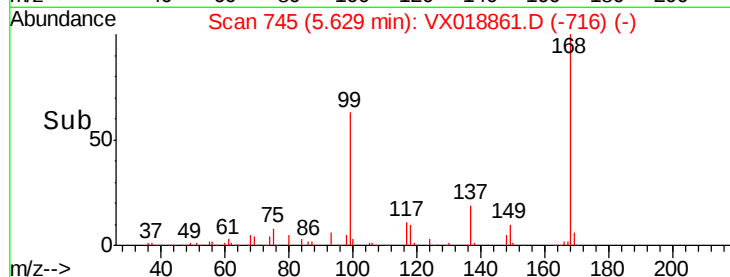
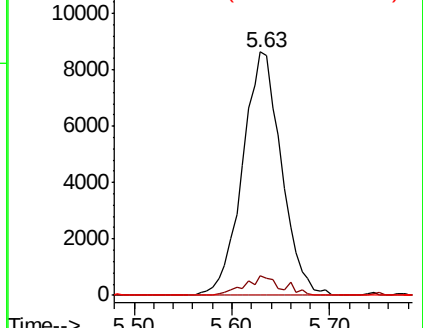
121 0.0 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.908 ug/l

RT: 7.74 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

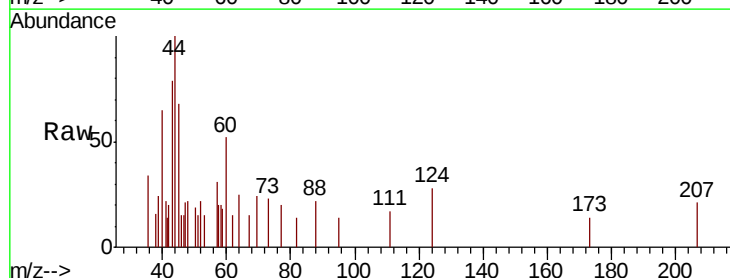
Tgt Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

43 221.5 31.0 46.6#

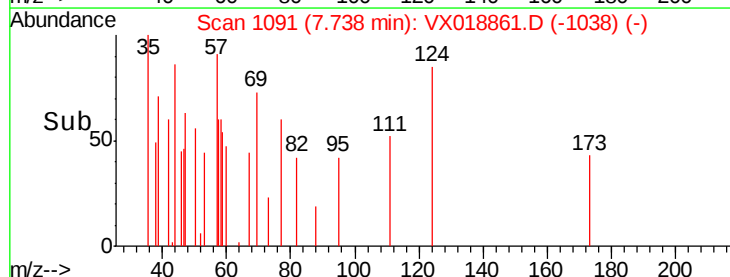
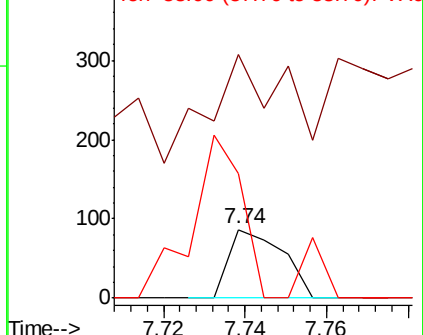
58 221.5 59.3 88.9#

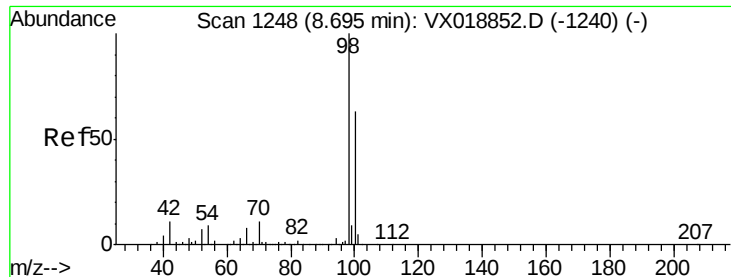


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

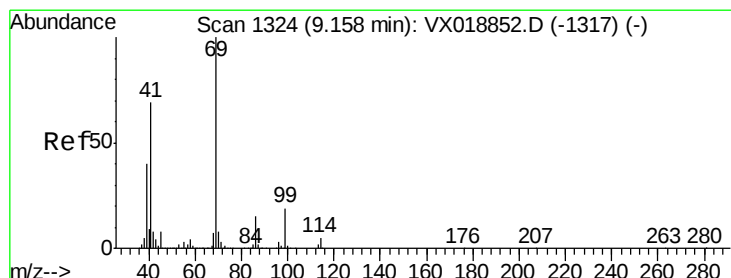
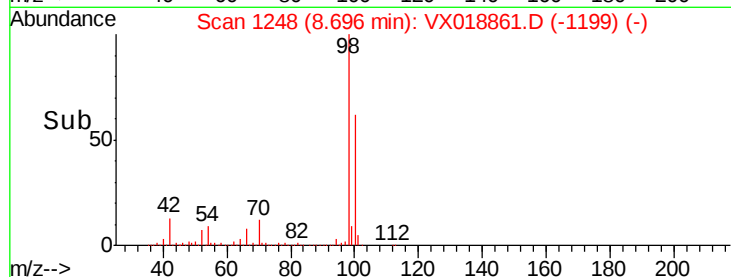
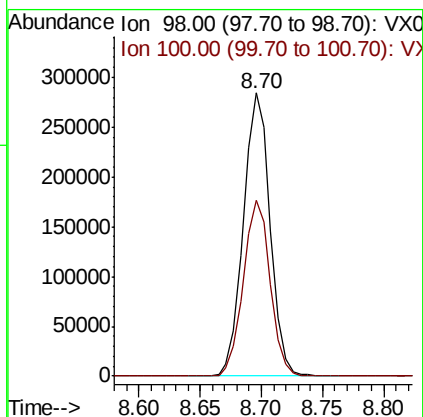
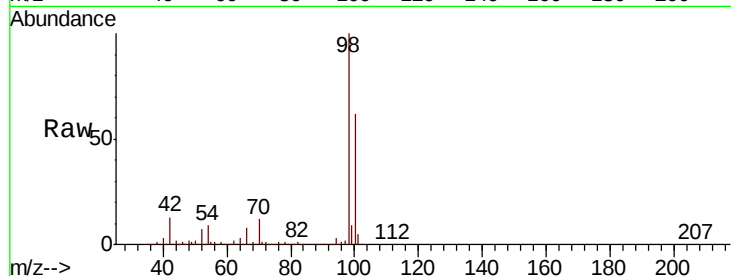




#50
Toluene-d8
Concen: 50.423 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018861.D
Acq: 09 Oct 2020 17:45

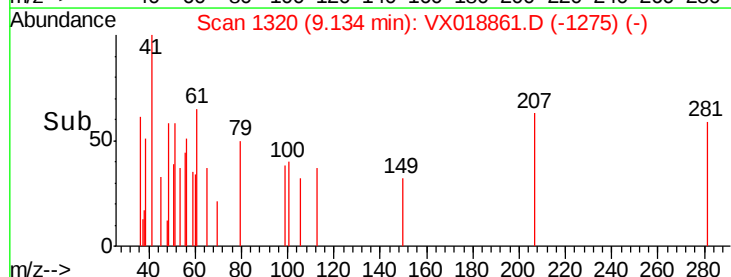
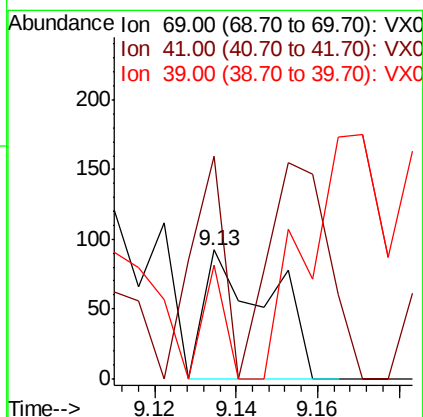
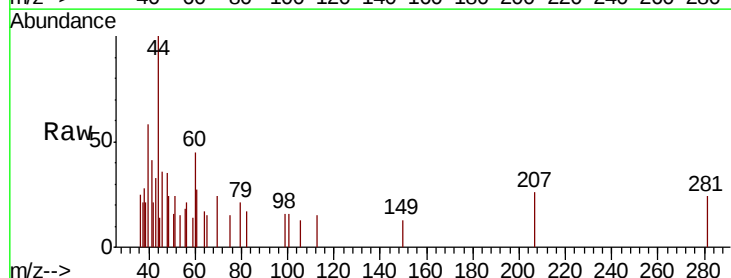
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

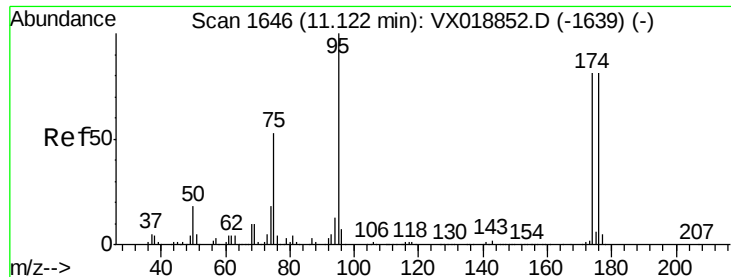
Tot Ion: 98 Resp: 429876
Ion Ratio Lower Upper
98 100
100 62.6 53.1 79.7



#56
Ethyl methacrylate
Concen: 2.959 ug/l
RT: 9.13 min Scan# 1320
Delta R.T. -0.02 min
Lab File: VX018861.D
Acq: 09 Oct 2020 17:45

Tgt Ion: 69 Resp: 101
Ion Ratio Lower Upper
69 100
41 89.1 54.6 81.8#
39 0.0 31.5 47.3#





#62

4-Bromofluorobenzene

Concen: 48.332 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

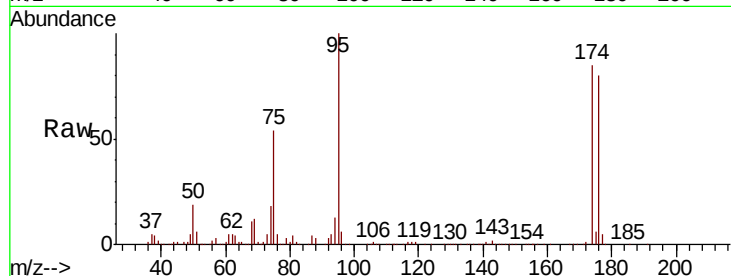
Tot Ion: 95 Resp: 164223

Ion Ratio Lower Upper

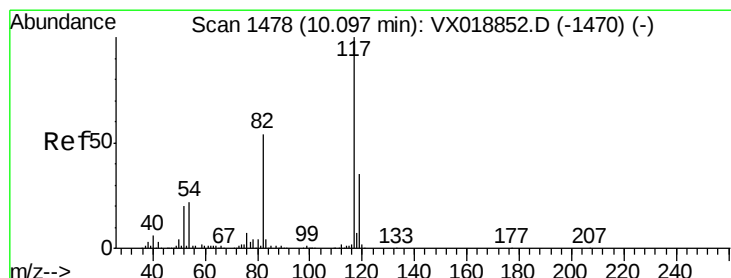
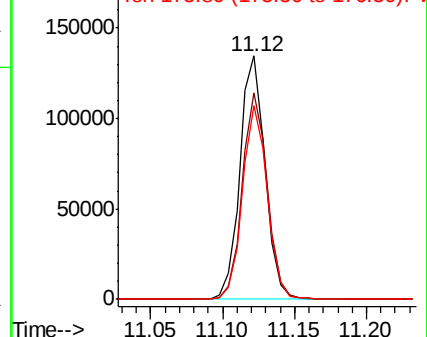
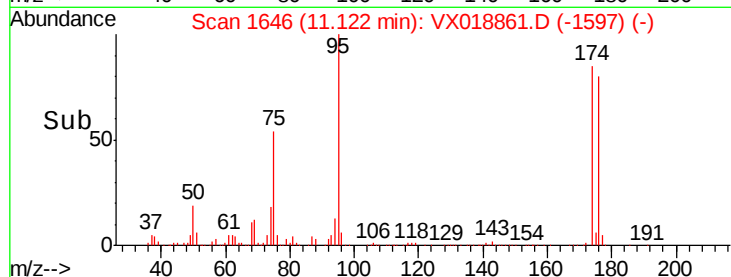
95 100

174 83.8 0.0 160.0

176 78.4 0.0 161.2



Abundance Ion 94.90 (94.60 to 95.60): VX018861.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

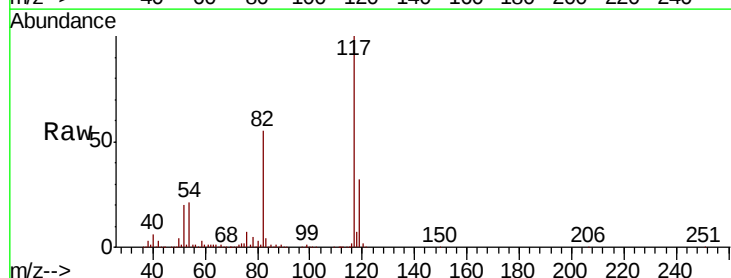
Tgt Ion: 117 Resp: 337056

Ion Ratio Lower Upper

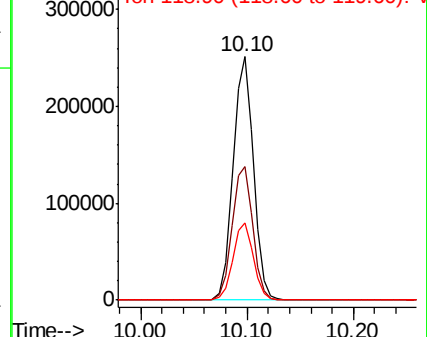
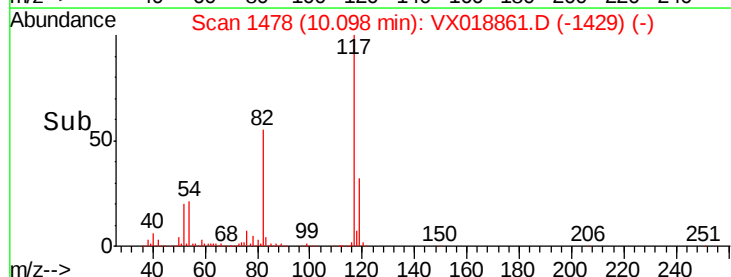
117 100

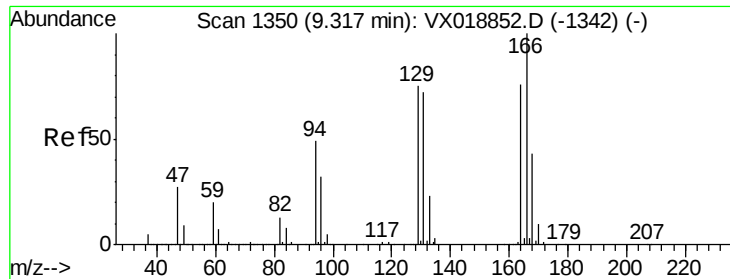
82 54.9 43.4 65.2

119 31.7 28.3 42.5



Abundance Ion 116.90 (116.60 to 117.60): VX018861.D (-1429) (-)





#64

Tetrachloroethene

Concen: Below Cal

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

Tot Ion:164 Resp: 203

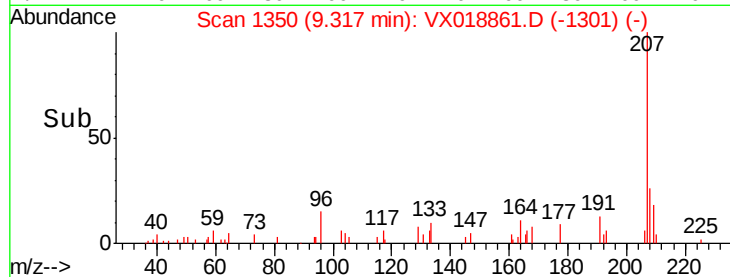
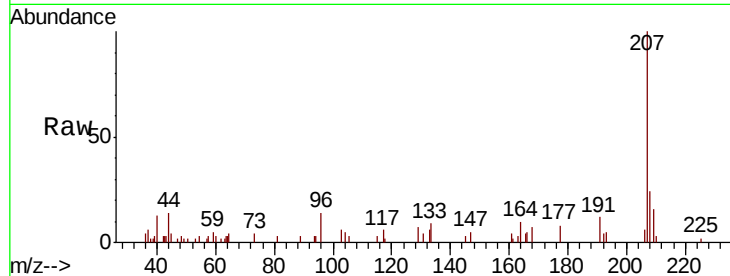
Ion Ratio Lower Upper

164 100

166 93.4 105.4 158.0#

129 73.5 79.0 118.6#

131 38.7 75.7 113.5#



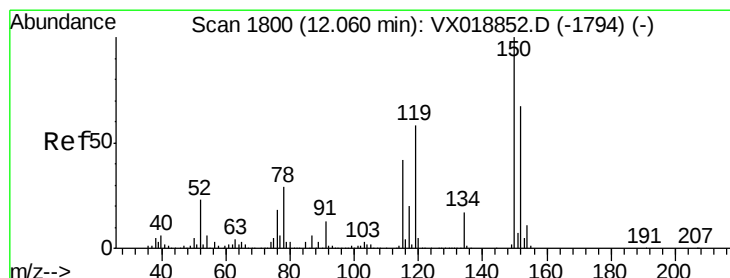
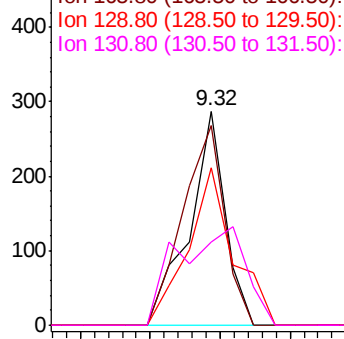
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

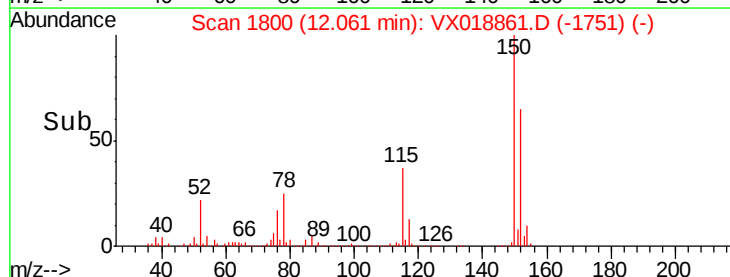
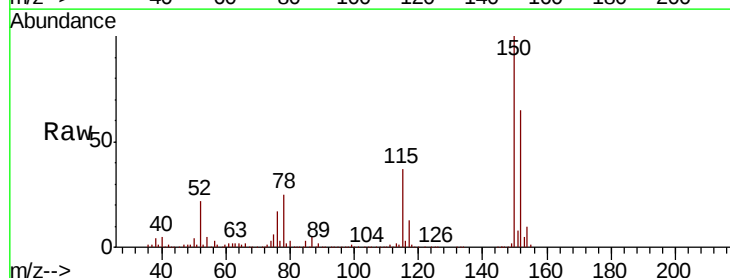
Tgt Ion:152 Resp: 174287

Ion Ratio Lower Upper

152 100

115 56.3 41.8 125.4

150 153.7 0.0 347.6

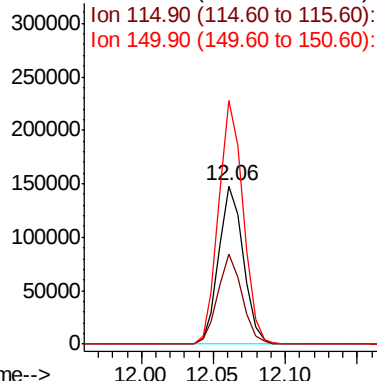


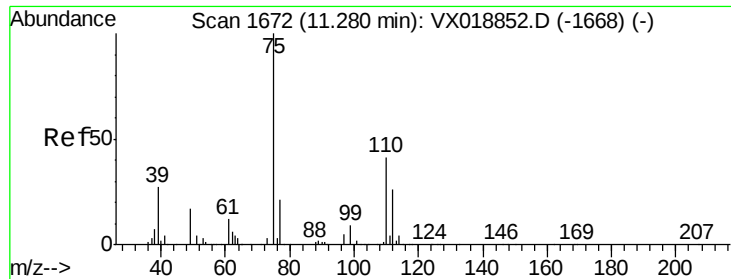
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.366 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA_X

ClientSampleId :

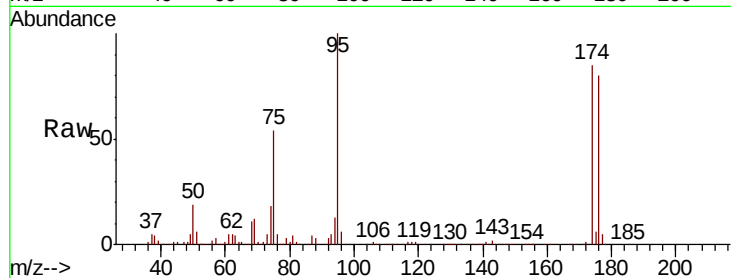
STORAGE-BLANK-WATER-REF-5

Tot Ion: 75 Resp: 87748

Ion Ratio Lower Upper

75 100

77 1.1 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

80000

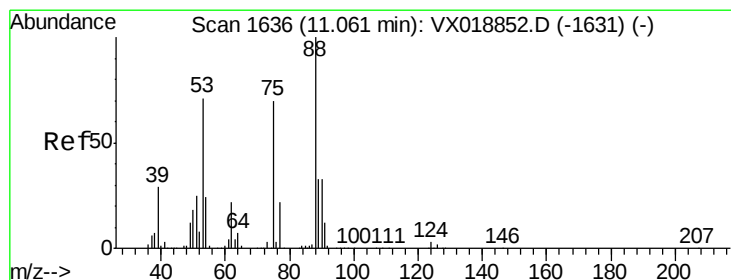
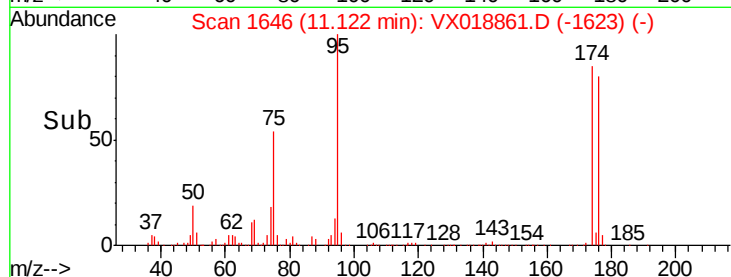
60000

40000

20000

0

Time--> 11.00 11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 66.219 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018861.D

Acq: 09 Oct 2020 17:45

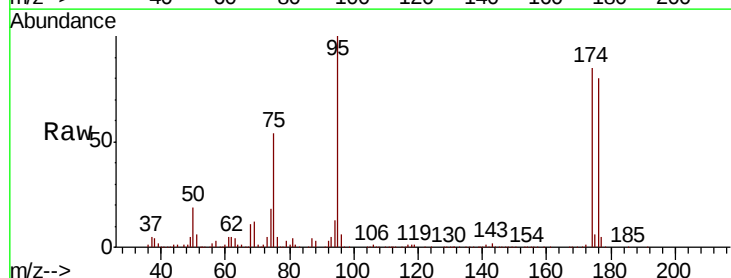
Tgt Ion: 75 Resp: 87748

Ion Ratio Lower Upper

75 100

53 0.5 85.0 127.4#

89 0.1 39.0 58.4#



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

100000

80000

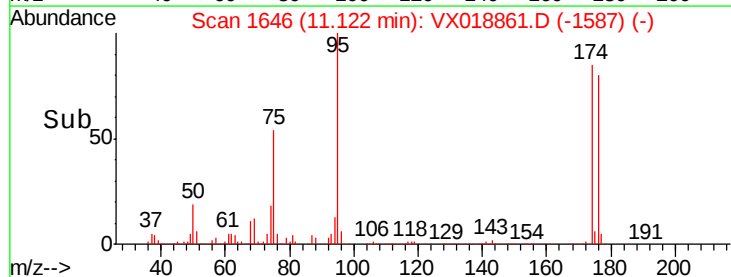
60000

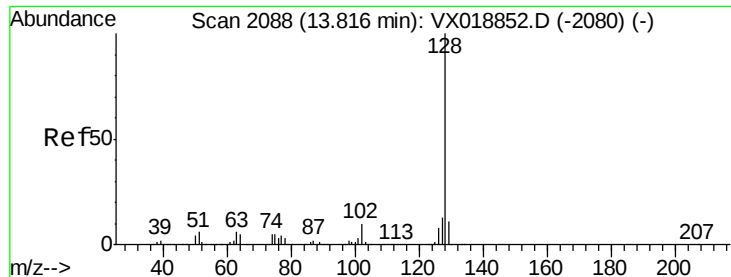
40000

20000

0

Time--> 11.00 11.10 11.20

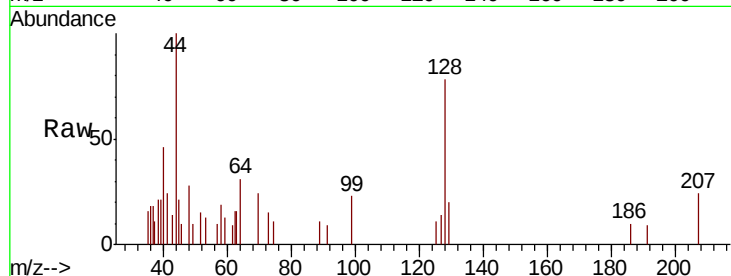




#95
Naphthalene
Concen: 3.126 ug/l
RT: 13.82 min Scan# 2089
Delta R.T. 0.01 min
Lab File: VX018861.D
Acq: 09 Oct 2020 17:45

Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.1	15.1
129	15.3	8.6	13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

