

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX063018\
 Data File : VX003108.D
 Acq On : 01 Jul 2018 06:00
 Operator : JC/MD
 Sample : J3800-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-15

Quant Time: Jul 02 04:58:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	287642	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	398668	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	377780	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	220816	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	187528	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
35) Dibromofluoromethane	5.51	113	155829	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
50) Toluene-d8	8.72	98	562645	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.14	95	203436	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	

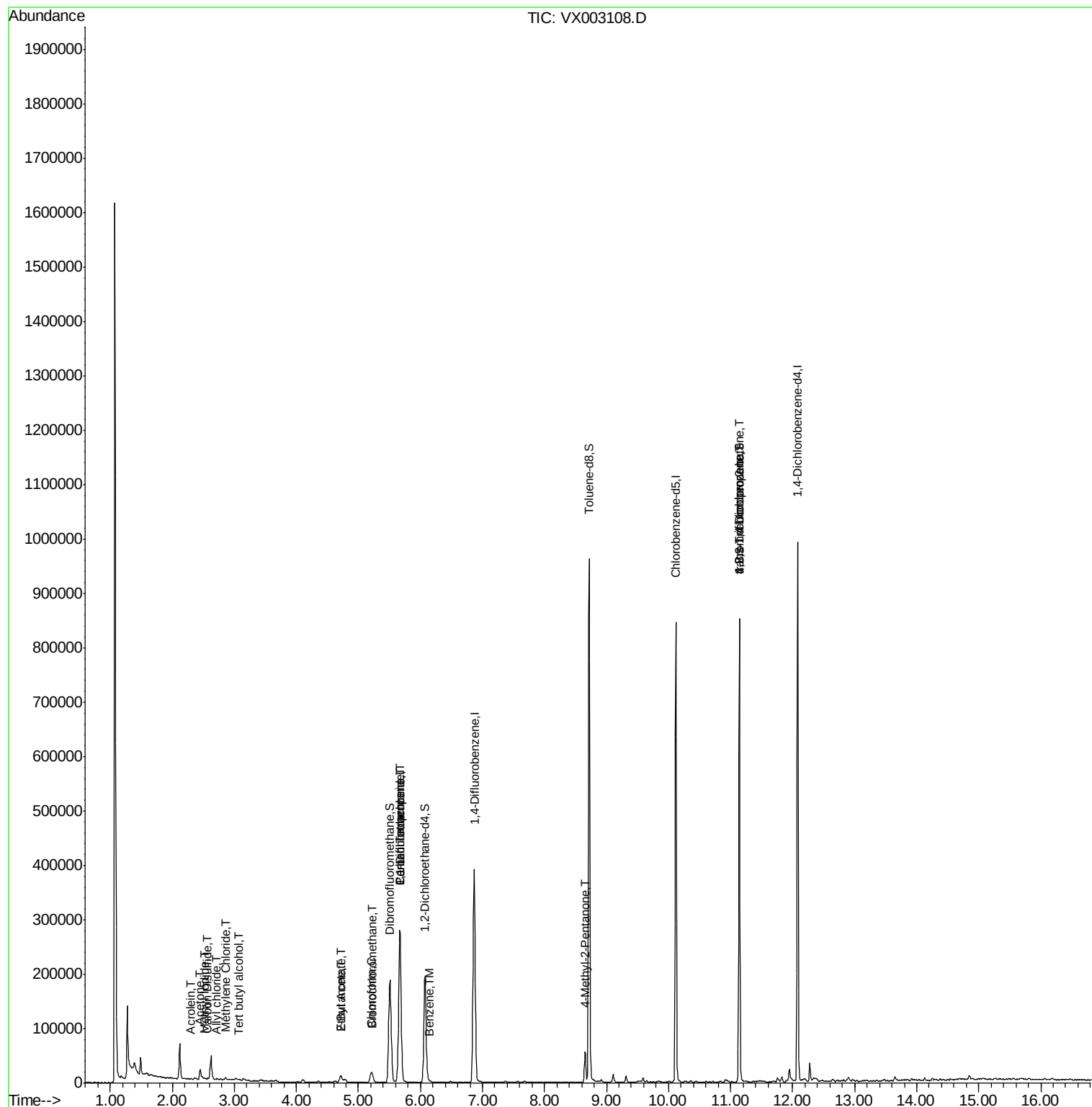
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	70	Below Cal	#	43
3) Chloromethane	1.32	50	1487	Below Cal	#	88
5) Bromomethane	1.65	94	1969	Below Cal		88
6) Chloroethane	1.62	64	1043	Below Cal	#	69
10) Methyl Iodide	2.51	142	2441	6.89	ug/l	98
11) Tert butyl alcohol	3.07	59	1150	1.45	ug/l	97
13) Acrolein	2.29	56	804	6.03	ug/l	85
14) Allyl chloride	2.71	41	1841	0.33	ug/l	# 49
16) Acetone	2.45	43	19734	11.99	ug/l	97
17) Carbon Disulfide	2.57	76	3480	0.46	ug/l	97
20) Methylene Chloride	2.86	84	2045	0.64	ug/l	83
25) 2-Butanone	4.71	43	21503	8.80	ug/l	98
28) Bromochloromethane	5.23	49	1275	0.46	ug/l	# 13
30) Chloroform	5.21	83	12913	2.17	ug/l	99
36) 1,1-Dichloropropene	5.67	75	18933	4.33	ug/l	# 51
37) Ethyl Acetate	4.71	43	21503	4.57	ug/l	# 70
38) Carbon Tetrachloride	5.67	117	26159	5.45	ug/l	# 15
40) Benzene	6.15	78	2626	0.21	ug/l	93
51) 4-Methyl-2-Pentanone	8.65	43	31916	6.46	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	103252	25.81	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	103252	73.22	ug/l	# 7

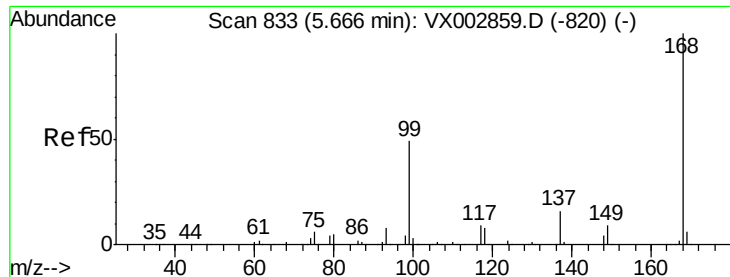
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Instrument :

MSVOA_X

ClientSampled :

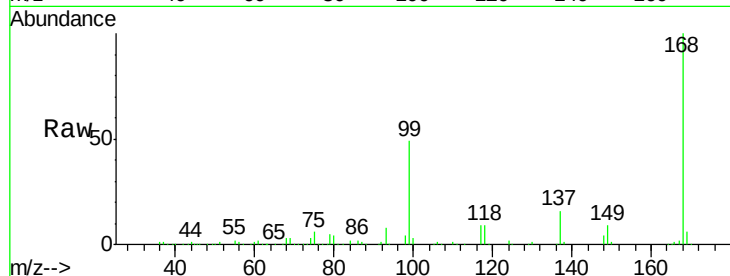
MW-15

Tot Ion:168 Resp: 287642

Ion Ratio Lower Upper

168 100

99 48.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

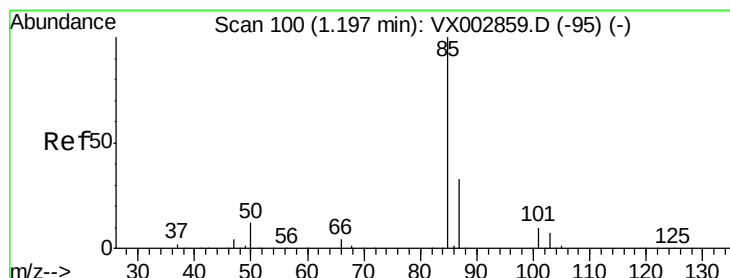
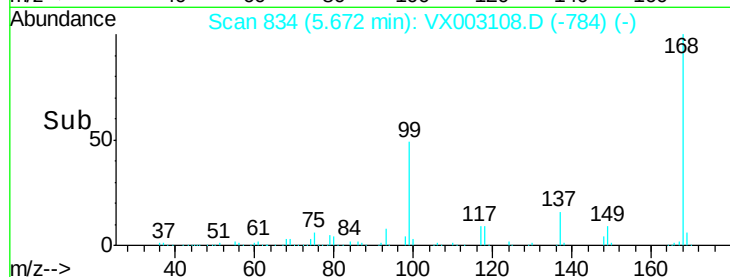
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003108.D

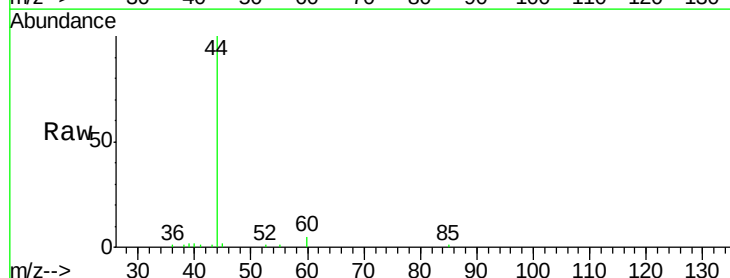
Acq: 01 Jul 2018 06:00

Tgt Ion: 85 Resp: 70

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100

80

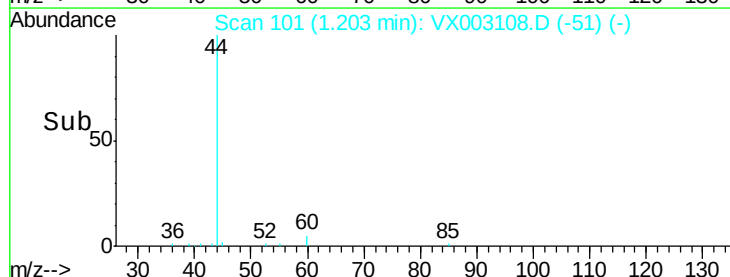
60

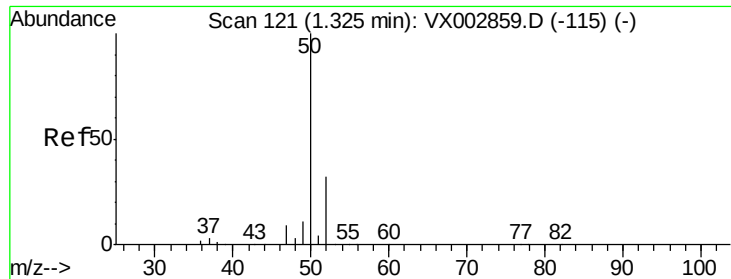
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Instrument :

MSVOA_X

ClientSampled :

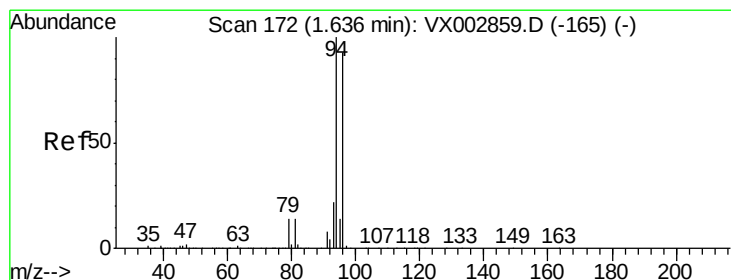
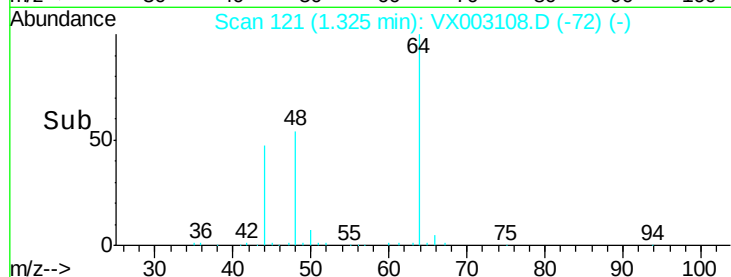
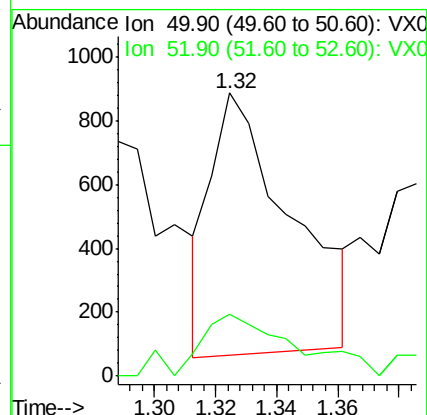
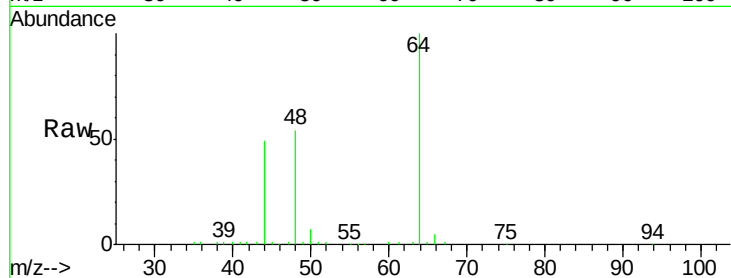
MW-15

Tot Ion: 50 Resp: 1487

Ion Ratio Lower Upper

50 100

52 25.5 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003108.D

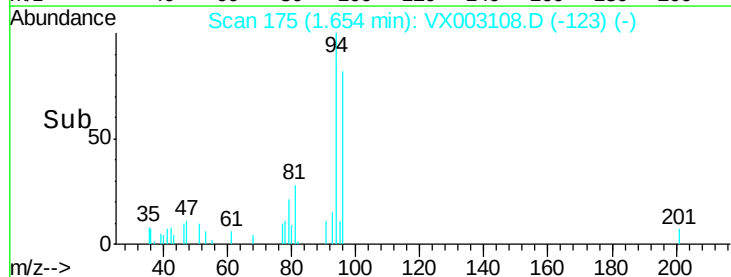
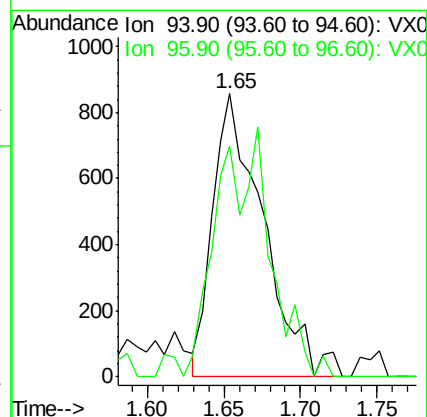
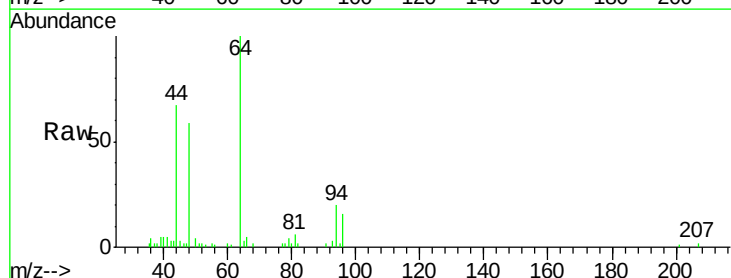
Acq: 01 Jul 2018 06:00

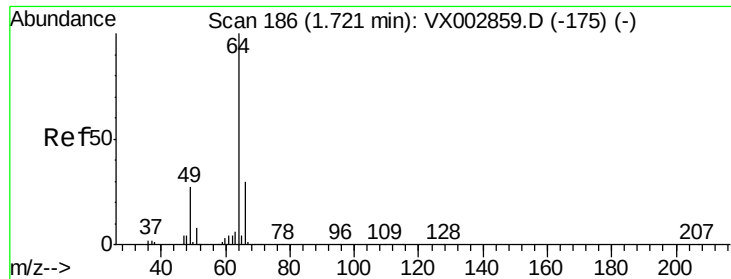
Tgt Ion: 94 Resp: 1969

Ion Ratio Lower Upper

94 100

96 81.7 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.10 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Instrument :

MSVOA_X

ClientSampleId :

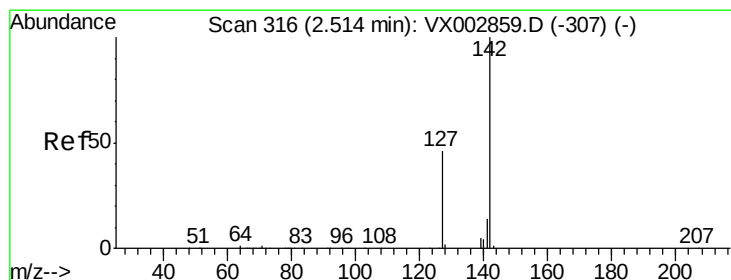
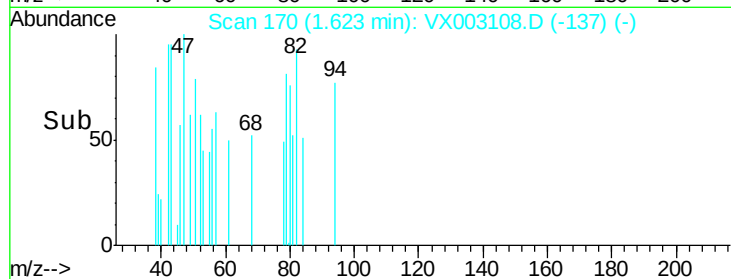
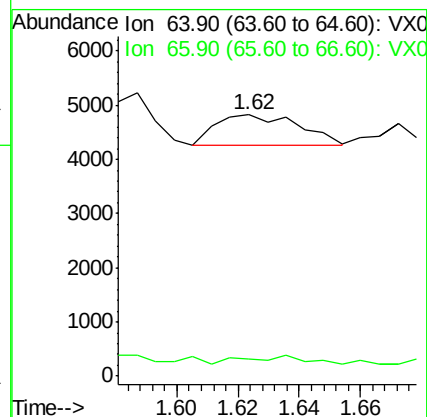
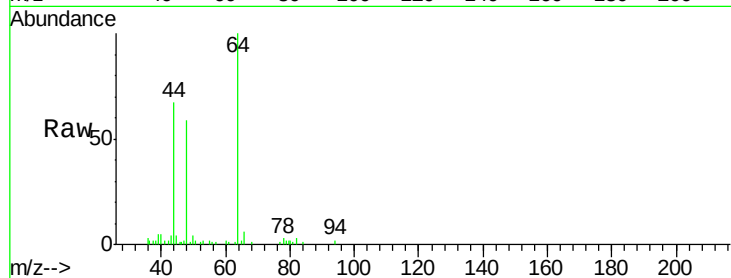
MW-15

Tot Ion: 64 Resp: 1043

Ion Ratio Lower Upper

64 100

66 14.8 25.5 38.3#



#10

Methyl Iodide

Concen: 6.89 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

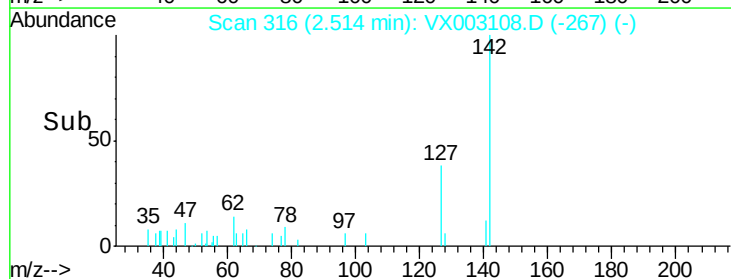
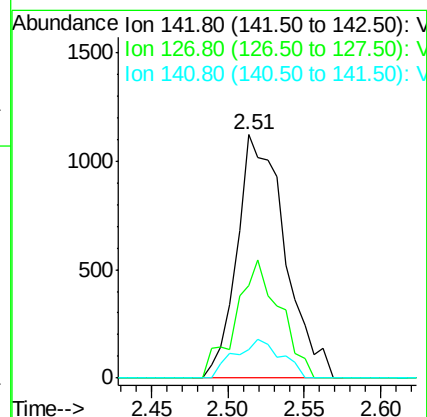
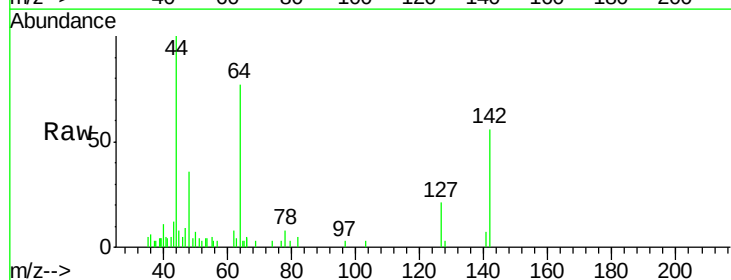
Tgt Ion: 142 Resp: 2441

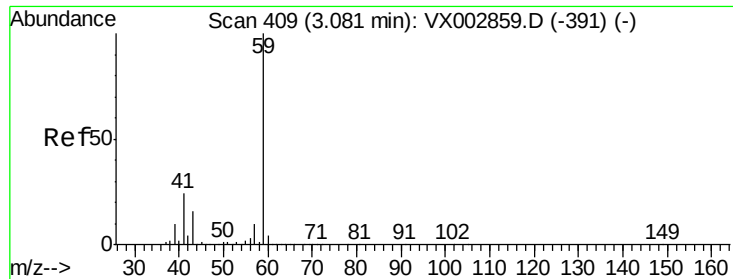
Ion Ratio Lower Upper

142 100

127 44.7 36.6 55.0

141 15.2 11.3 16.9

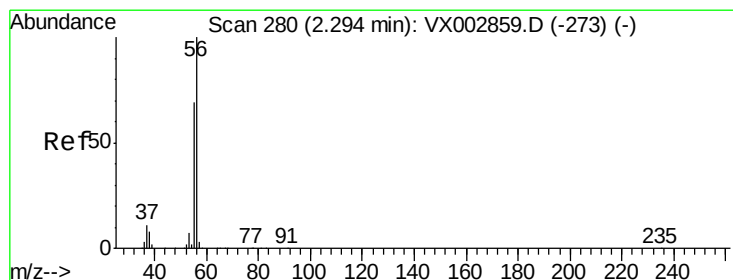
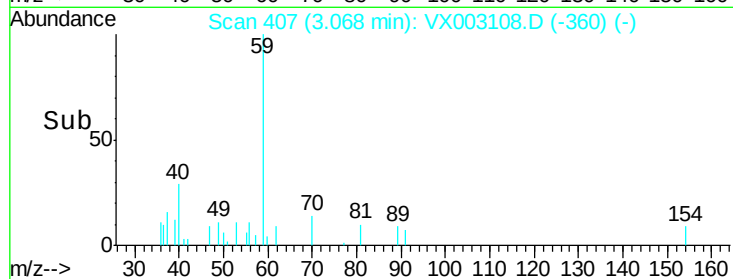
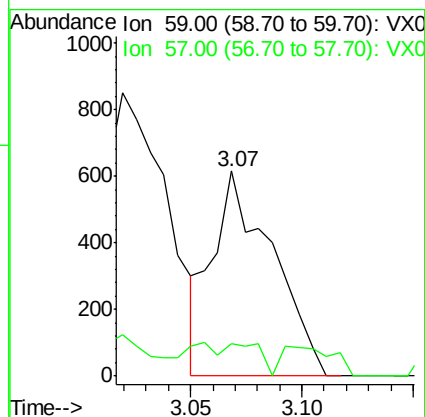
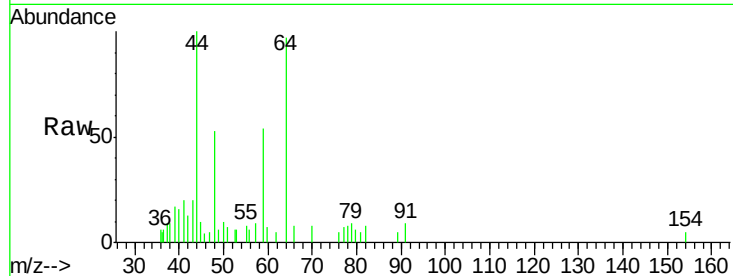




#11
Tert butyl alcohol
Concen: 1.45 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

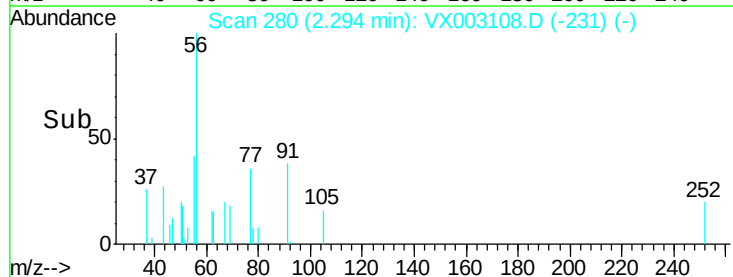
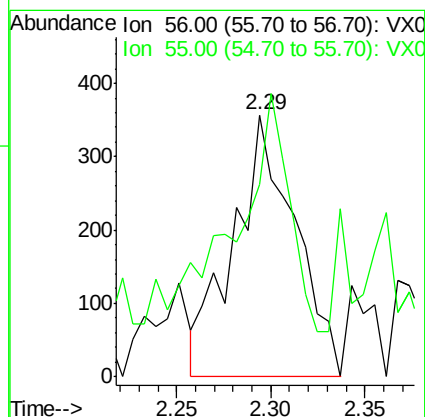
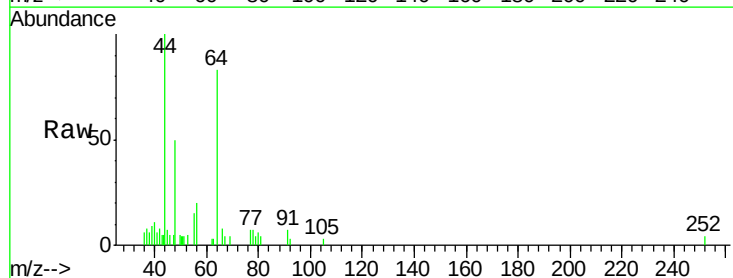
Instrument :
MSVOA_X
ClientSampleId :
MW-15

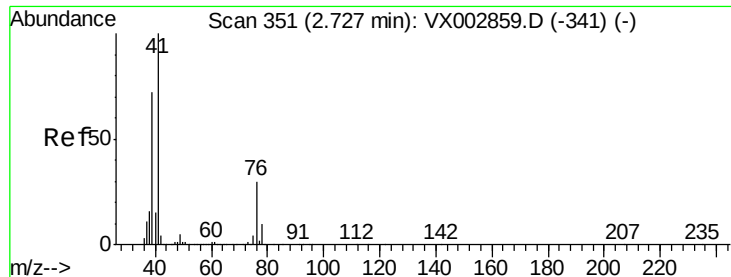
Tot Ion: 59 Resp: 1150
Ion Ratio Lower Upper
59 100
57 9.1 8.2 12.2



#13
Acrolein
Concen: 6.03 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

Tgt Ion: 56 Resp: 804
Ion Ratio Lower Upper
56 100
55 83.6 57.0 85.4

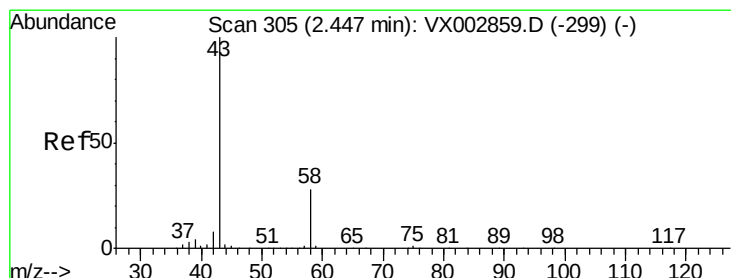
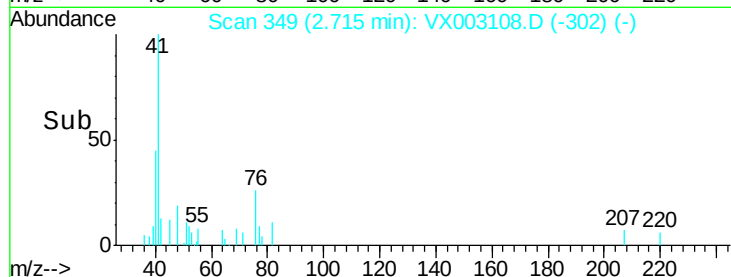
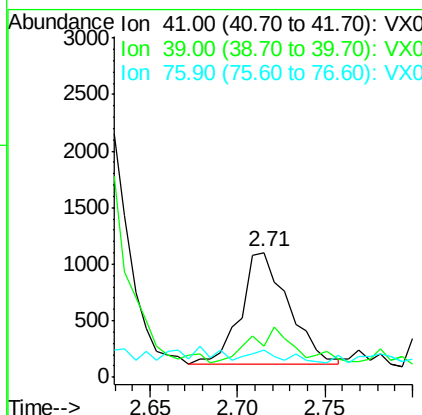
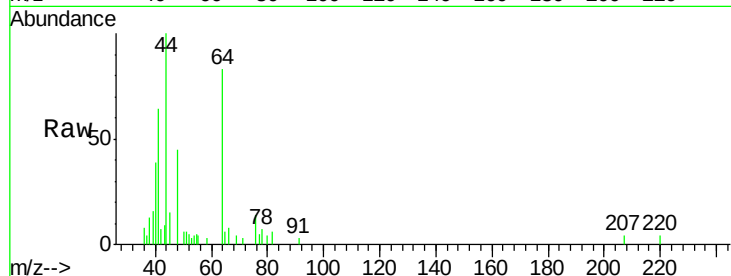




#14
Allvl chloride
Concen: 0.33 ug/l
RT: 2.71 min Scan# 349
Delta R.T. -0.01 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

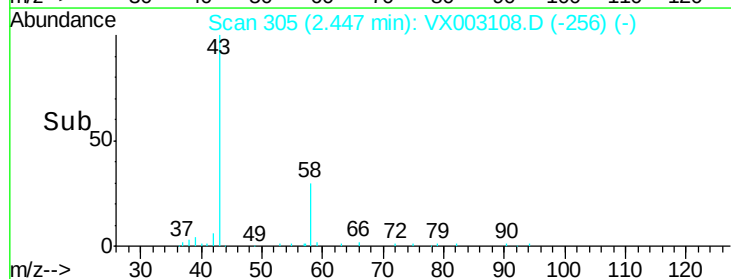
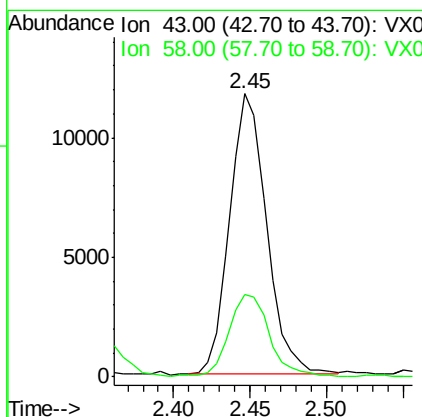
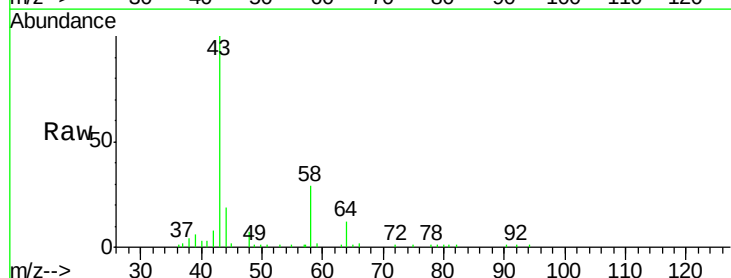
Instrument :
MSVOA_X
ClientSampled :
MW-15

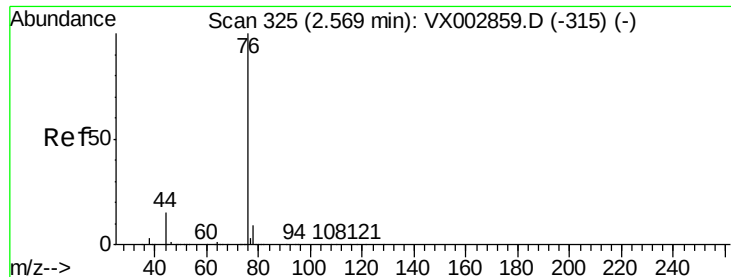
Tot Ion: 41 Resp: 1841
Ion Ratio Lower Upper
41 100
39 26.2 56.8 85.2#
76 7.2 23.8 35.8#



#16
Acetone
Concen: 11.99 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.00 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

Tgt Ion: 43 Resp: 19734
Ion Ratio Lower Upper
43 100
58 29.2 22.1 33.1





#17

Carbon Disulfide

Concen: 0.46 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Instrument :

MSVOA_X

ClientSampleId :

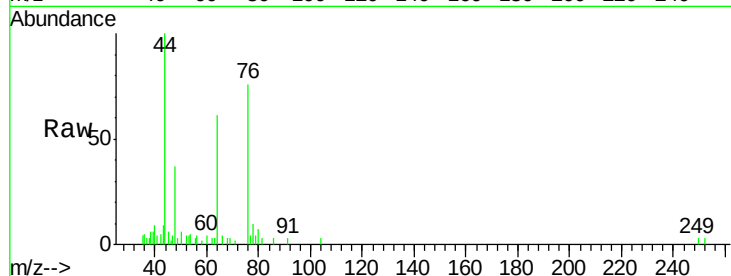
MW-15

Tot Ion: 76 Resp: 3480

Ion Ratio Lower Upper

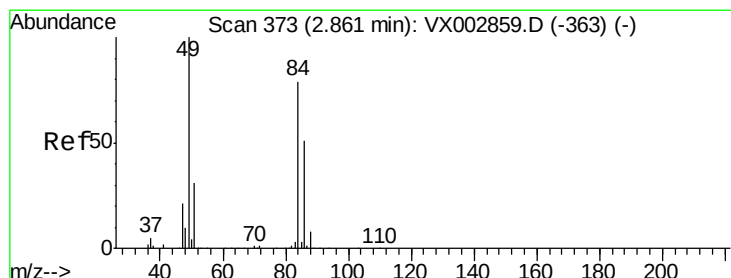
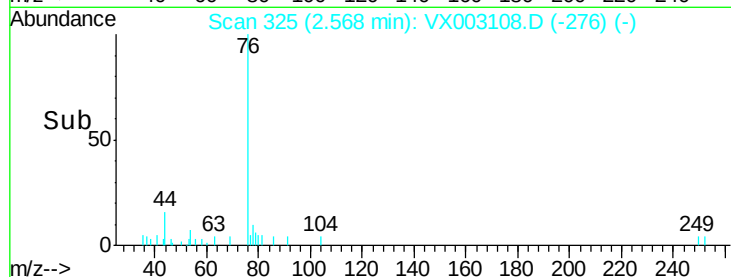
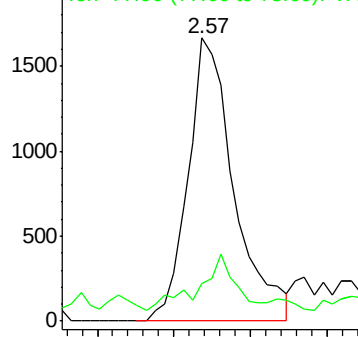
76 100

78 7.6 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.64 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Tgt Ion: 84 Resp: 2045

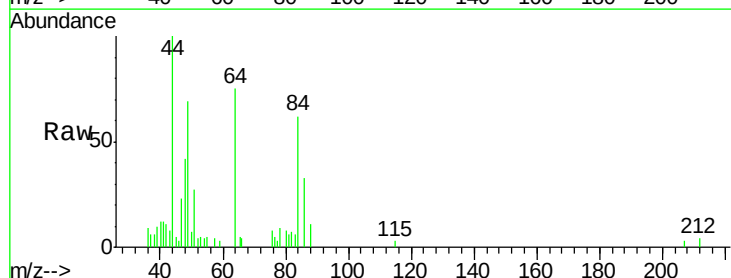
Ion Ratio Lower Upper

84 100

49 110.0 107.8 161.6

51 37.5 32.8 49.2

86 52.8 52.5 78.7

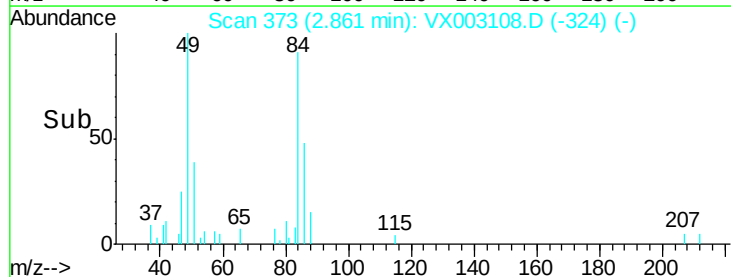
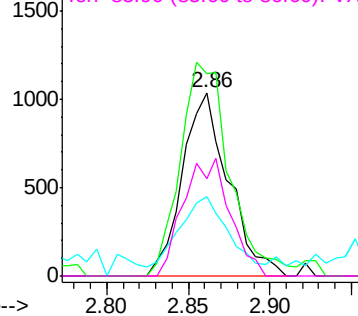


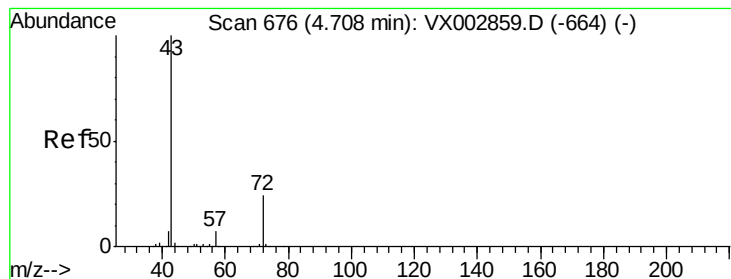
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 8.80 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Instrument :

MSVOA_X

ClientSampleId :

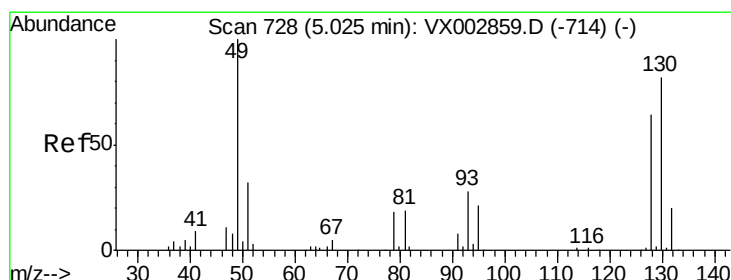
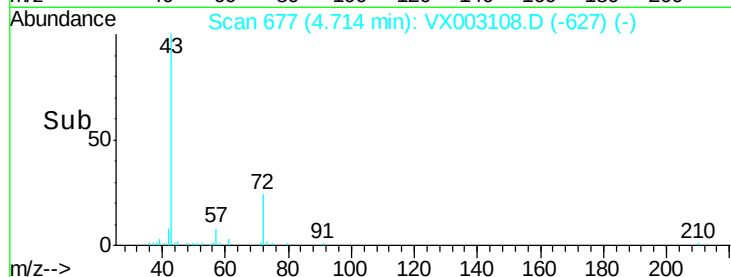
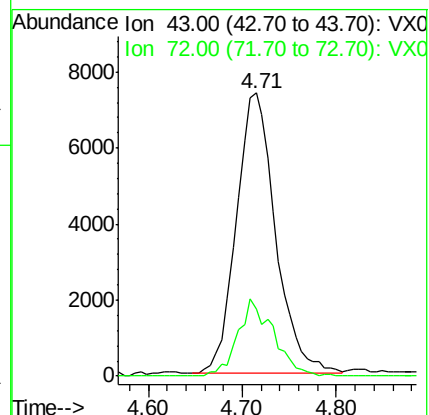
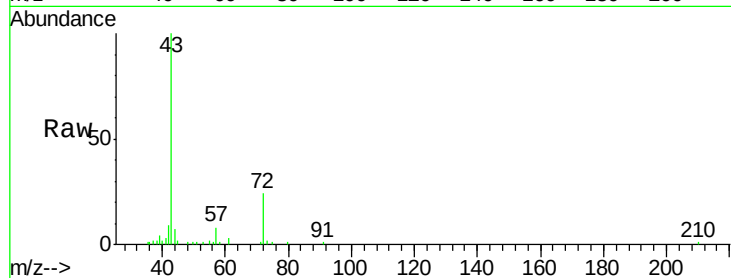
MW-15

Tot Ion: 43 Resp: 21503

Ion Ratio Lower Upper

43 100

72 24.1 18.5 27.7



#28

Bromochloromethane

Concen: 0.46 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.20 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

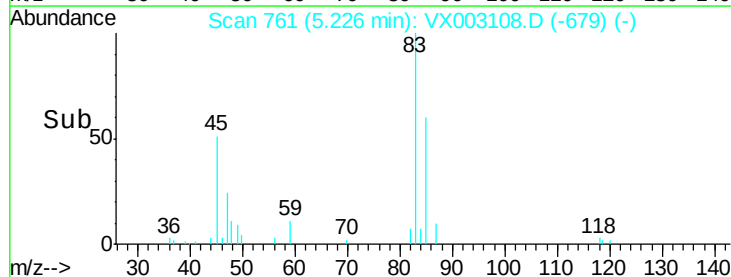
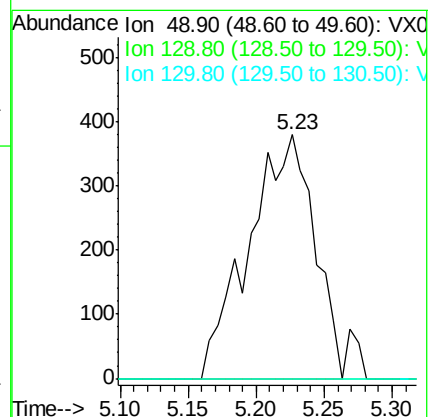
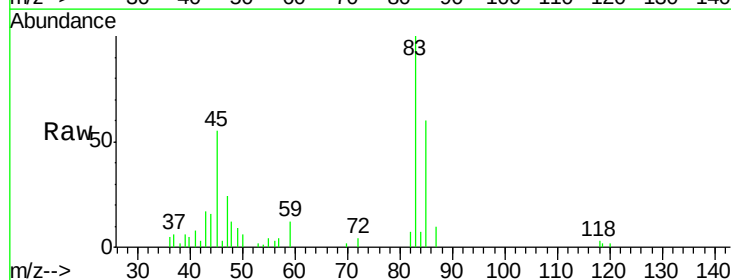
Tgt Ion: 49 Resp: 1275

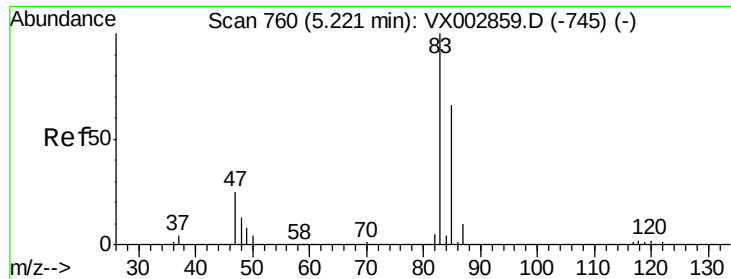
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#

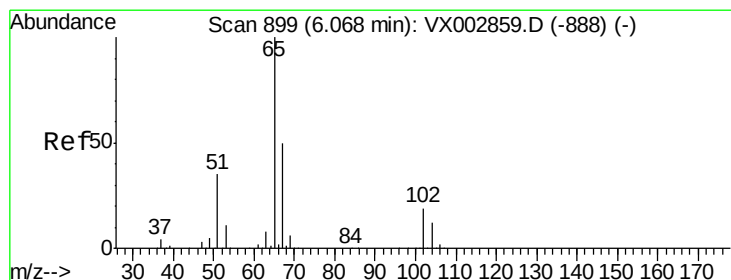
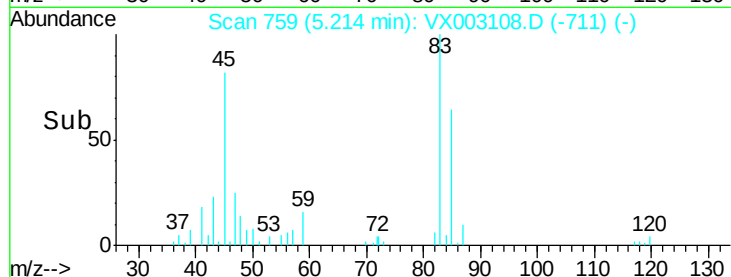
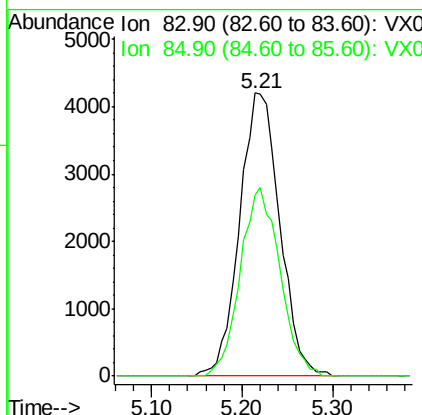
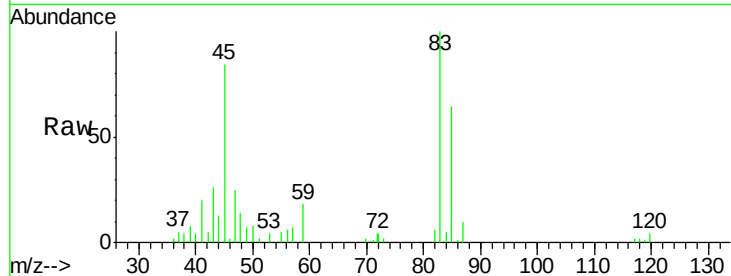




#30
Chloroform
Concen: 2.17 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

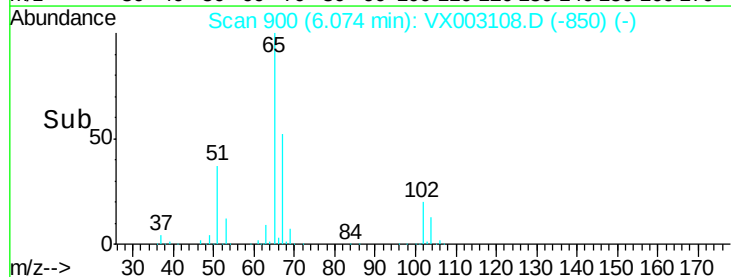
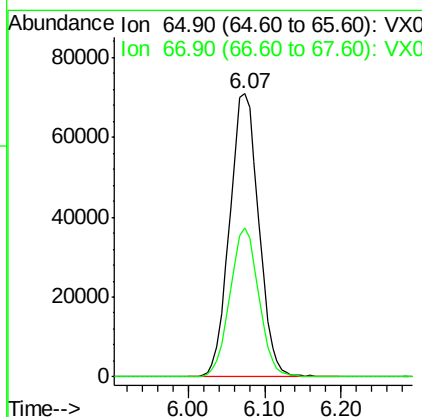
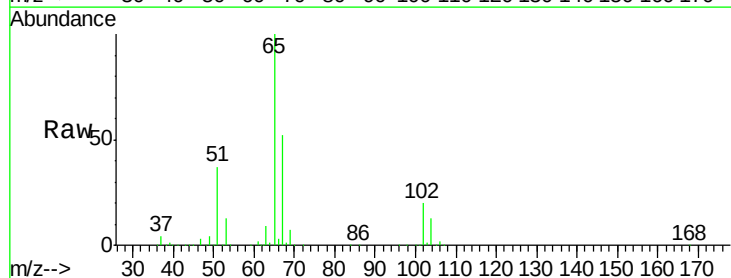
Instrument :
MSVOA_X
ClientSampled :
MW-15

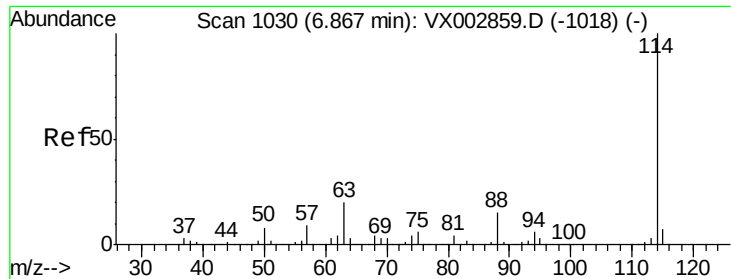
Tot Ion: 83 Resp: 12913
Ion Ratio Lower Upper
83 100
85 63.9 50.4 75.6



#33
1,2-Dichloroethane-d4
Concen: 47.17 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

Tgt Ion: 65 Resp: 187528
Ion Ratio Lower Upper
65 100
67 51.9 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Instrument :

MSVOA_X

ClientSampleId :

MW-15

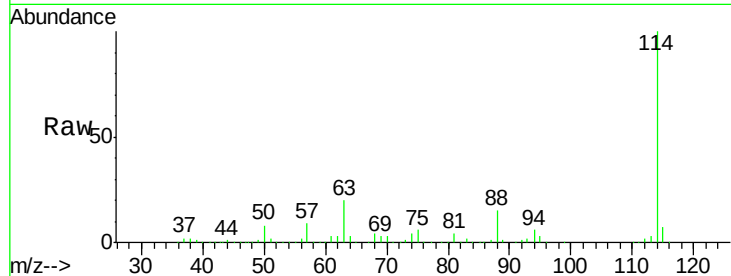
Tot Ion:114 Resp: 398668

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

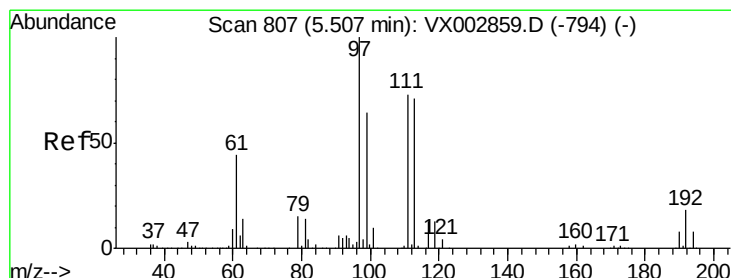
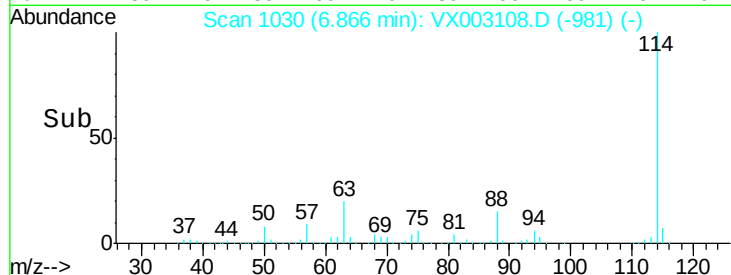
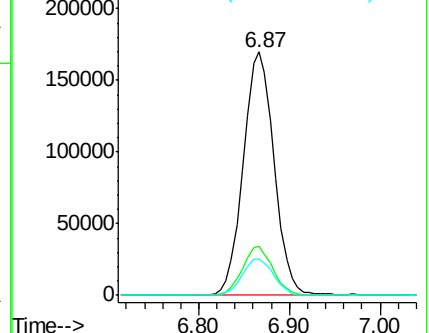
88 15.0 0.0 30.0



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: 49.36 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

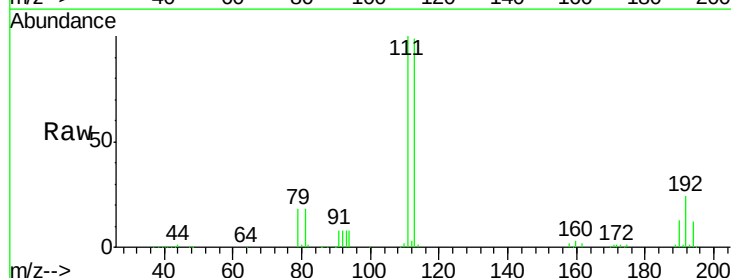
Tgt Ion:113 Resp: 155829

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

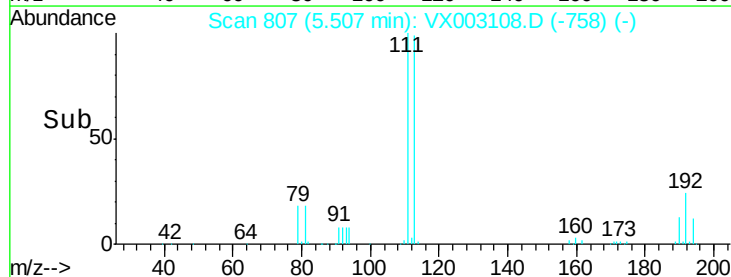
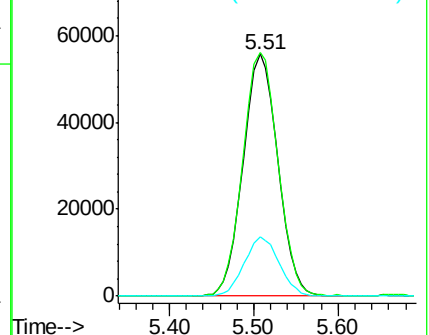
192 24.5 19.1 28.7

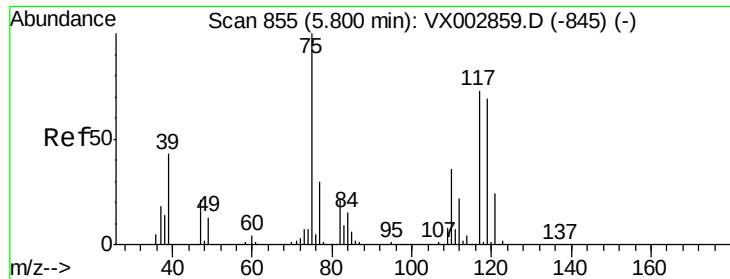


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

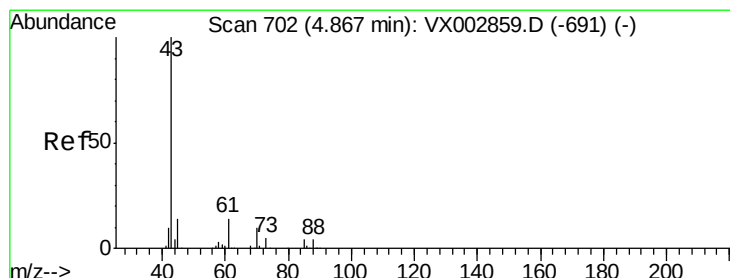
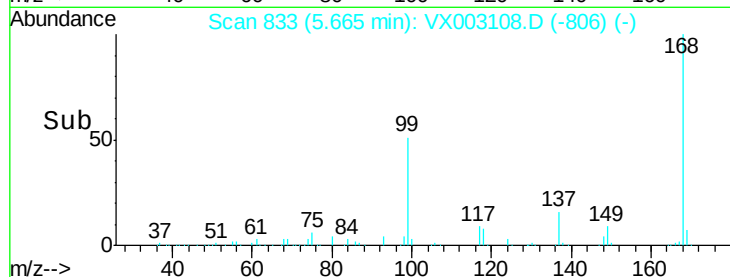
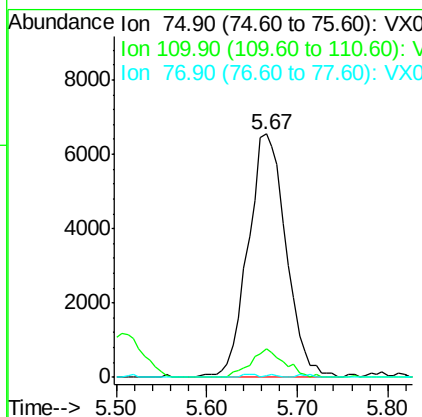
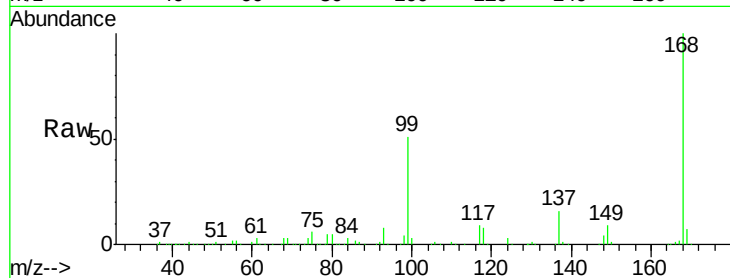




#36
 1,1-Dichloropropene
 Concen: 4.33 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003108.D
 Acq: 01 Jul 2018 06:00

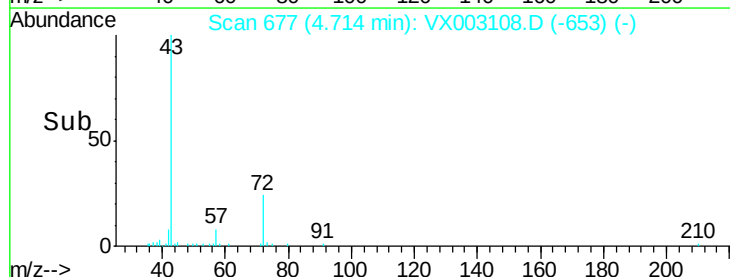
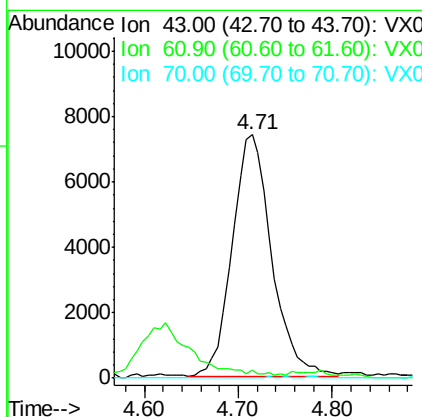
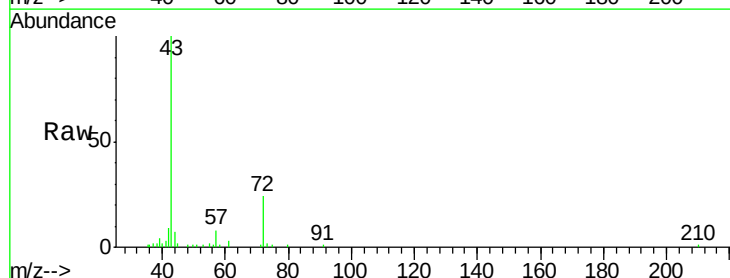
Instrument :
 MSVOA_X
 ClientSampled :
 MW-15

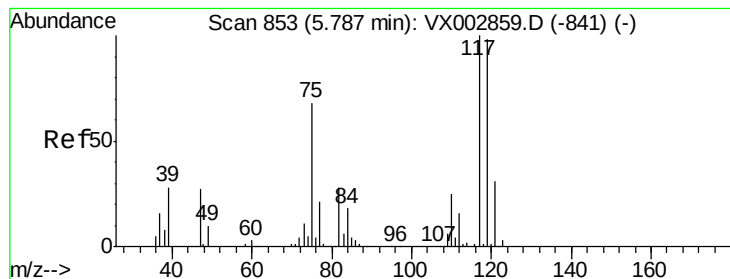
Tot Ion: 75 Resp: 18933
 Ion Ratio Lower Upper
 75 100
 110 10.3 18.1 54.4#
 77 0.3 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 4.57 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. -0.15 min
 Lab File: VX003108.D
 Acq: 01 Jul 2018 06:00

Tgt Ion: 43 Resp: 21503
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.4 15.6#
 70 0.1 7.6 11.4#





#38

Carbon Tetrachloride

Concen: 5.45 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Instrument :

MSVOA_X

ClientSampled :

MW-15

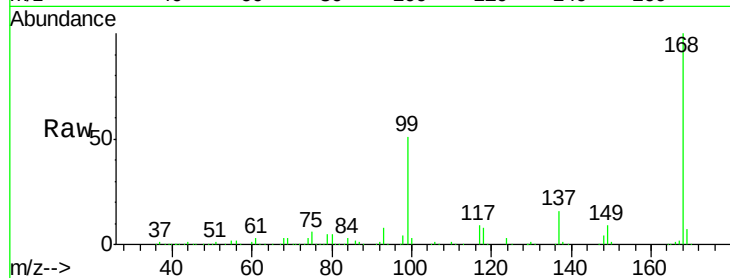
Tot Ion:117 Resp: 26159

Ion Ratio Lower Upper

117 100

119 4.7 77.4 116.0#

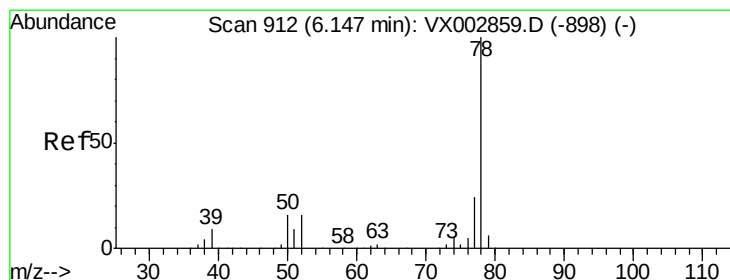
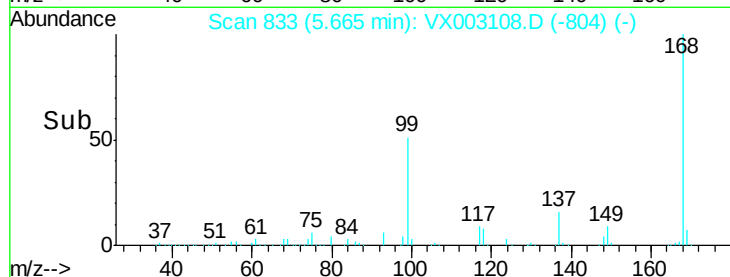
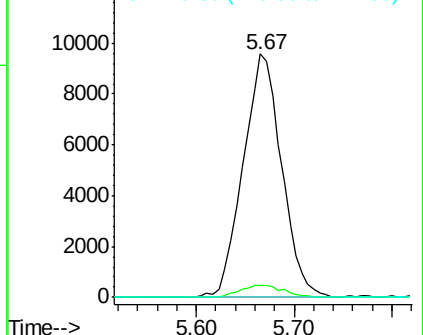
121 0.0 24.4 36.6#



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



#40

Benzene

Concen: 0.21 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX003108.D

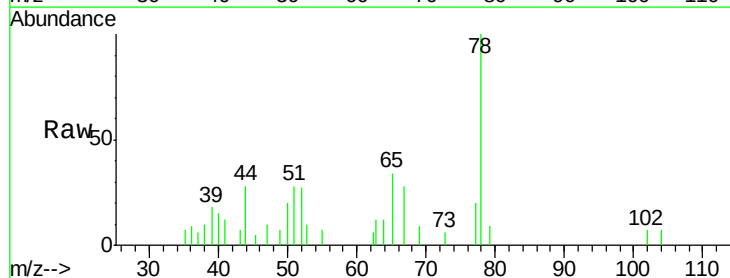
Acq: 01 Jul 2018 06:00

Tgt Ion: 78 Resp: 2626

Ion Ratio Lower Upper

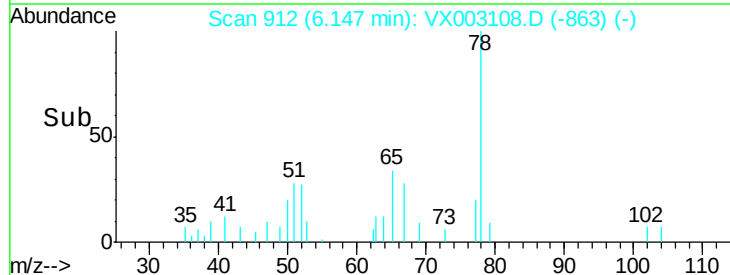
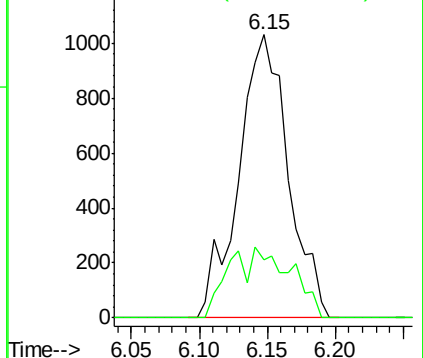
78 100

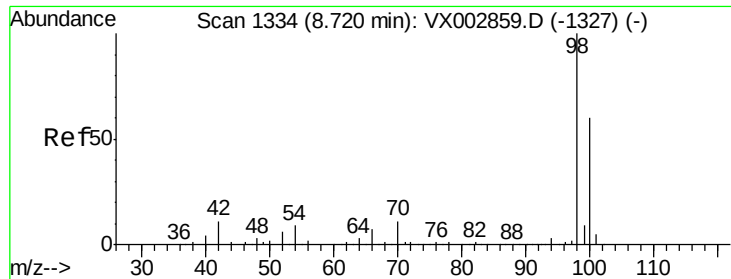
77 20.4 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

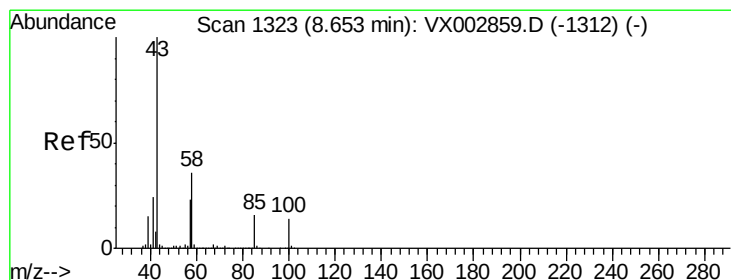
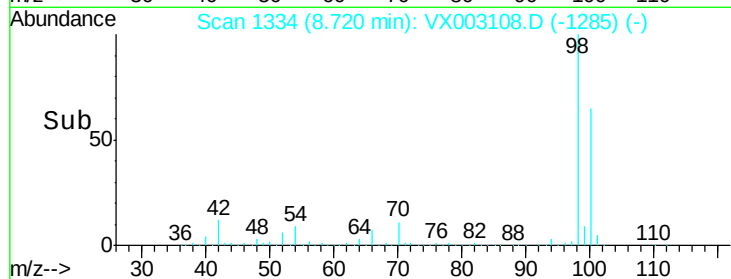
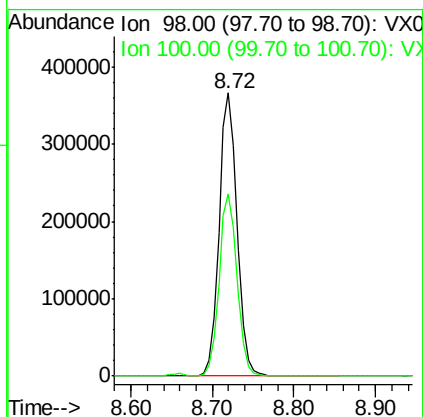
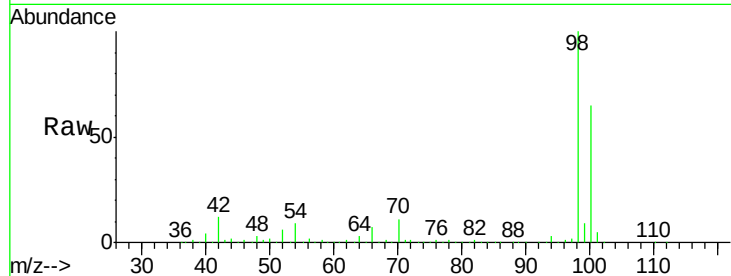




#50
Toluene-d8
Concen: 48.80 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

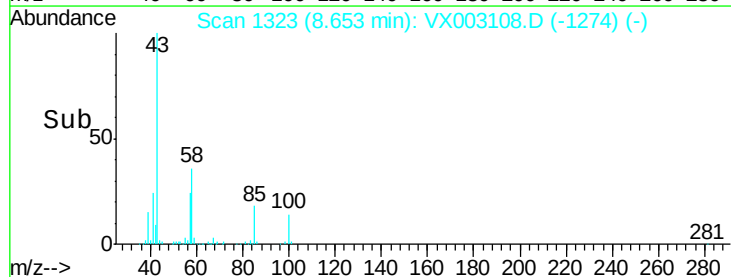
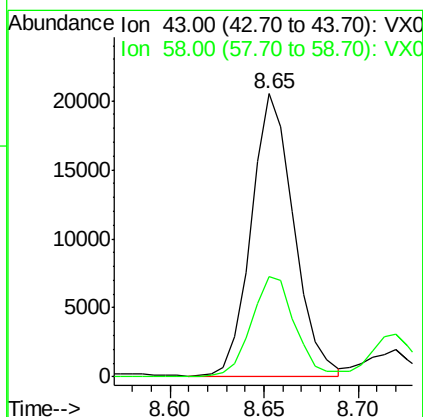
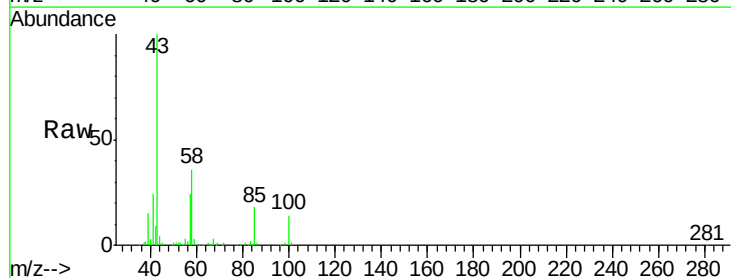
Instrument :
MSVOA_X
ClientSampled :
MW-15

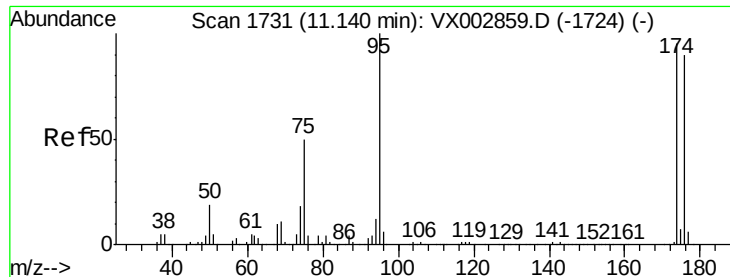
Tot Ion: 98 Resp: 562645
Ion Ratio Lower Upper
98 100
100 64.3 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 6.46 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

Tgt Ion: 43 Resp: 31916
Ion Ratio Lower Upper
43 100
58 36.8 28.6 42.8

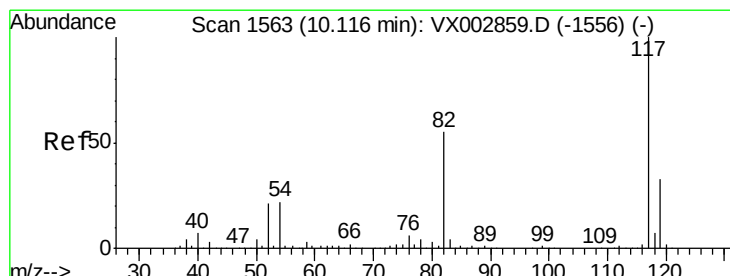
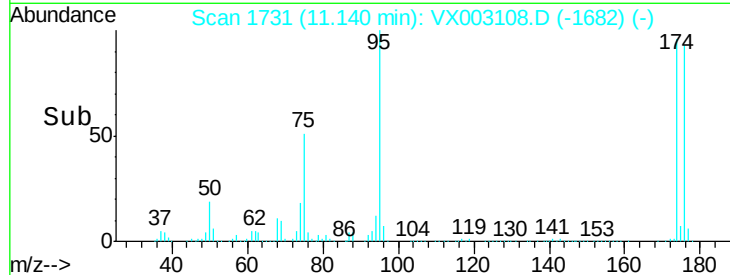
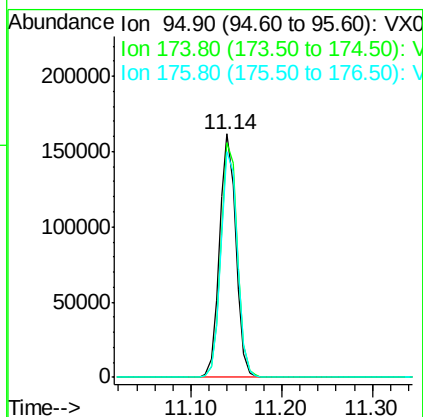
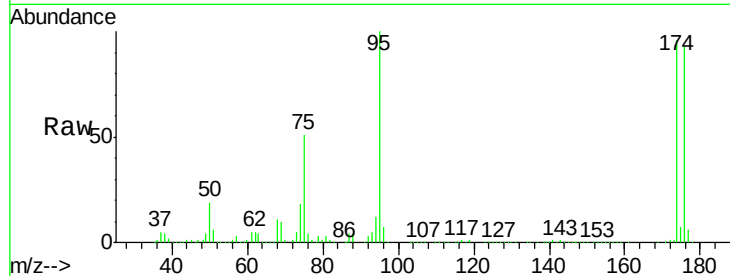




#62
4-Bromofluorobenzene
Concen: 45.75 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

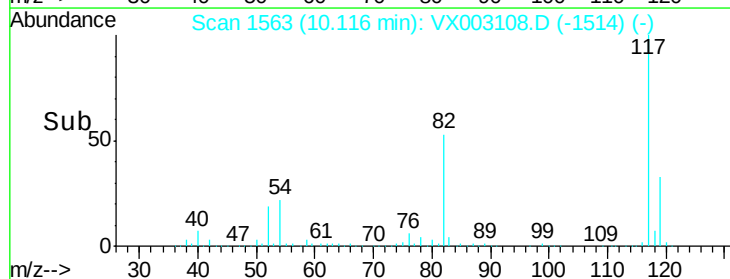
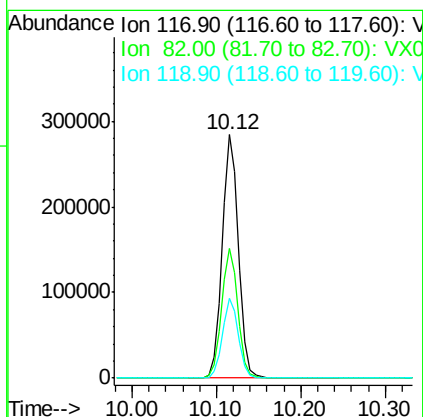
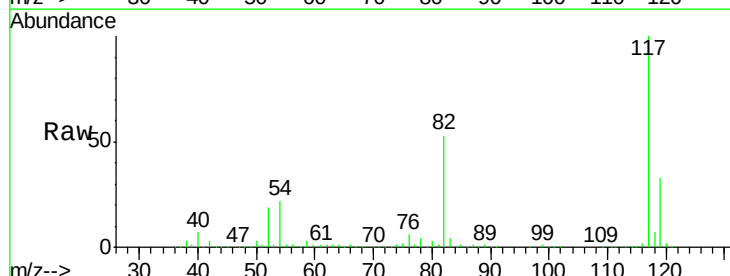
Instrument :
MSVOA_X
ClientSampled :
MW-15

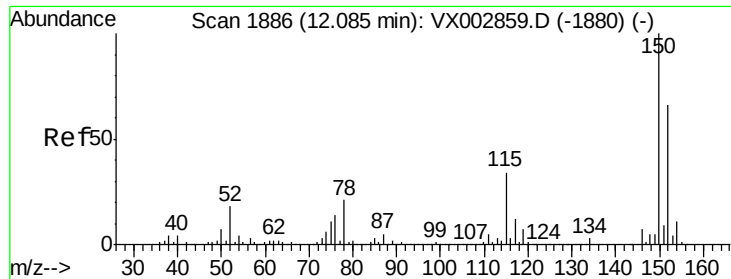
Tot Ion: 95 Resp: 203436
Ion Ratio Lower Upper
95 100
174 97.5 0.0 187.4
176 94.4 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003108.D
Acq: 01 Jul 2018 06:00

Tgt Ion: 117 Resp: 377780
Ion Ratio Lower Upper
117 100
82 53.3 45.0 67.4
119 32.8 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Instrument :

MSVOA_X

ClientSampleId :

MW-15

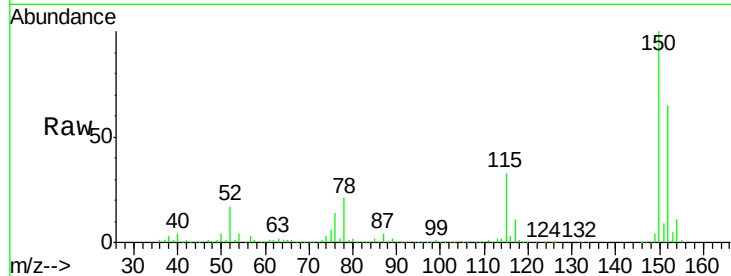
Tot Ion:152 Resp: 220816

Ion Ratio Lower Upper

152 100

115 53.7 40.1 120.2

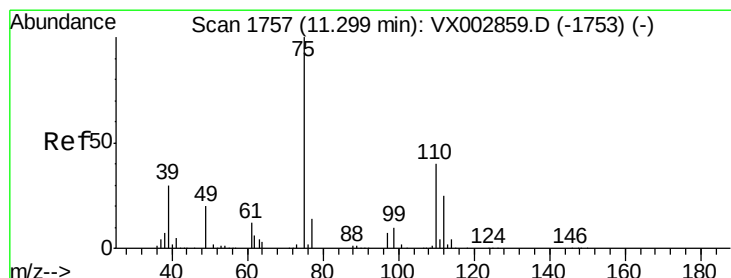
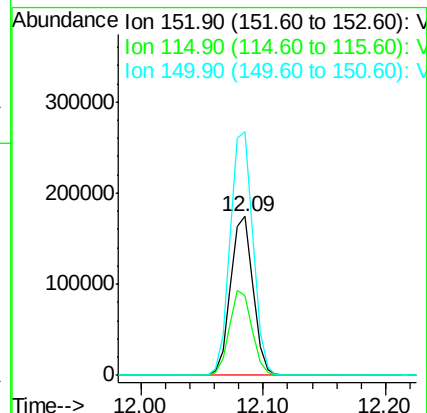
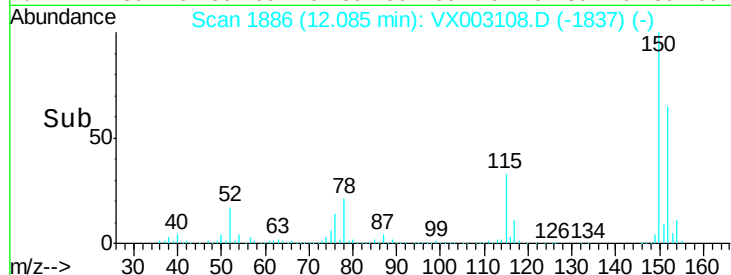
150 155.9 0.0 347.2



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: 25.81 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003108.D

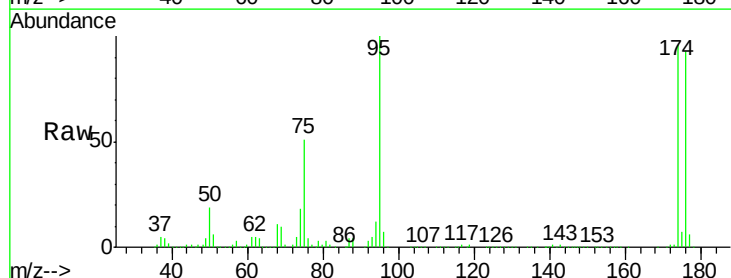
Acq: 01 Jul 2018 06:00

Tgt Ion: 75 Resp: 103252

Ion Ratio Lower Upper

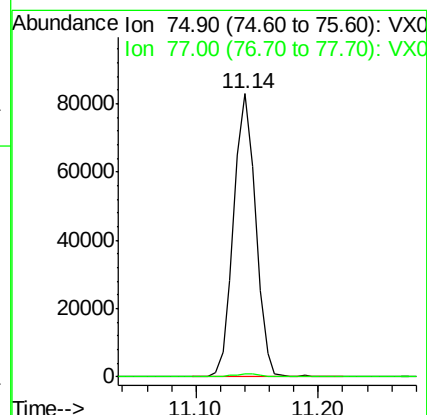
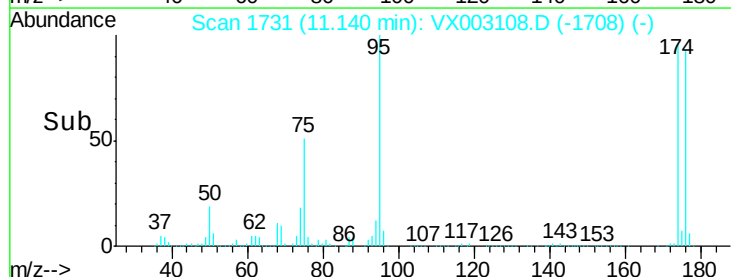
75 100

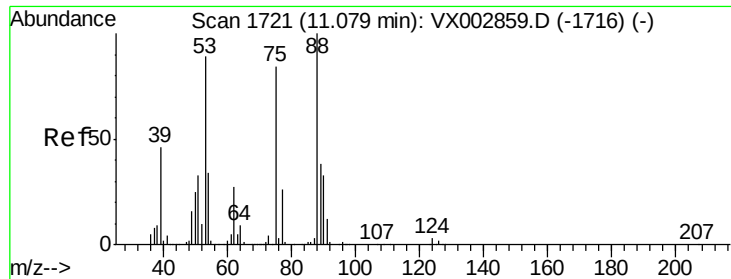
77 1.4 22.8 68.3#



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: 73.22 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003108.D

Acq: 01 Jul 2018 06:00

Instrument :

MSVOA_X

ClientSampleId :

MW-15

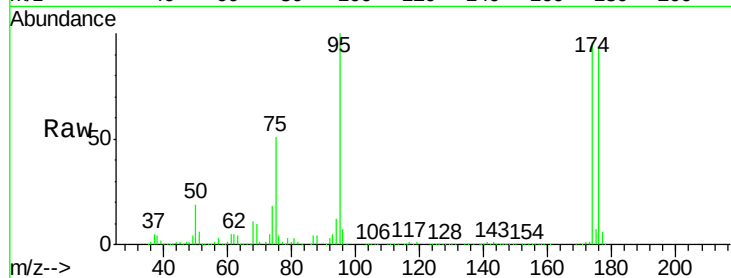
Tot Ion: 75 Resp: 103252

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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

