

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041218\
 Data File : VX000808.D
 Acq On : 12 Apr 2018 17:48
 Operator : JC/MD
 Sample : J2236-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-103

Quant Time: Apr 13 07:31:34 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	274872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	359491	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	322697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	208500	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	156198	45.07	ug/l	0.00
Spiked Amount			Recovery	=	90.14%	
35) Dibromofluoromethane	5.51	113	129641	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
50) Toluene-d8	8.73	98	491840	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
62) 4-Bromofluorobenzene	11.15	95	190124	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	

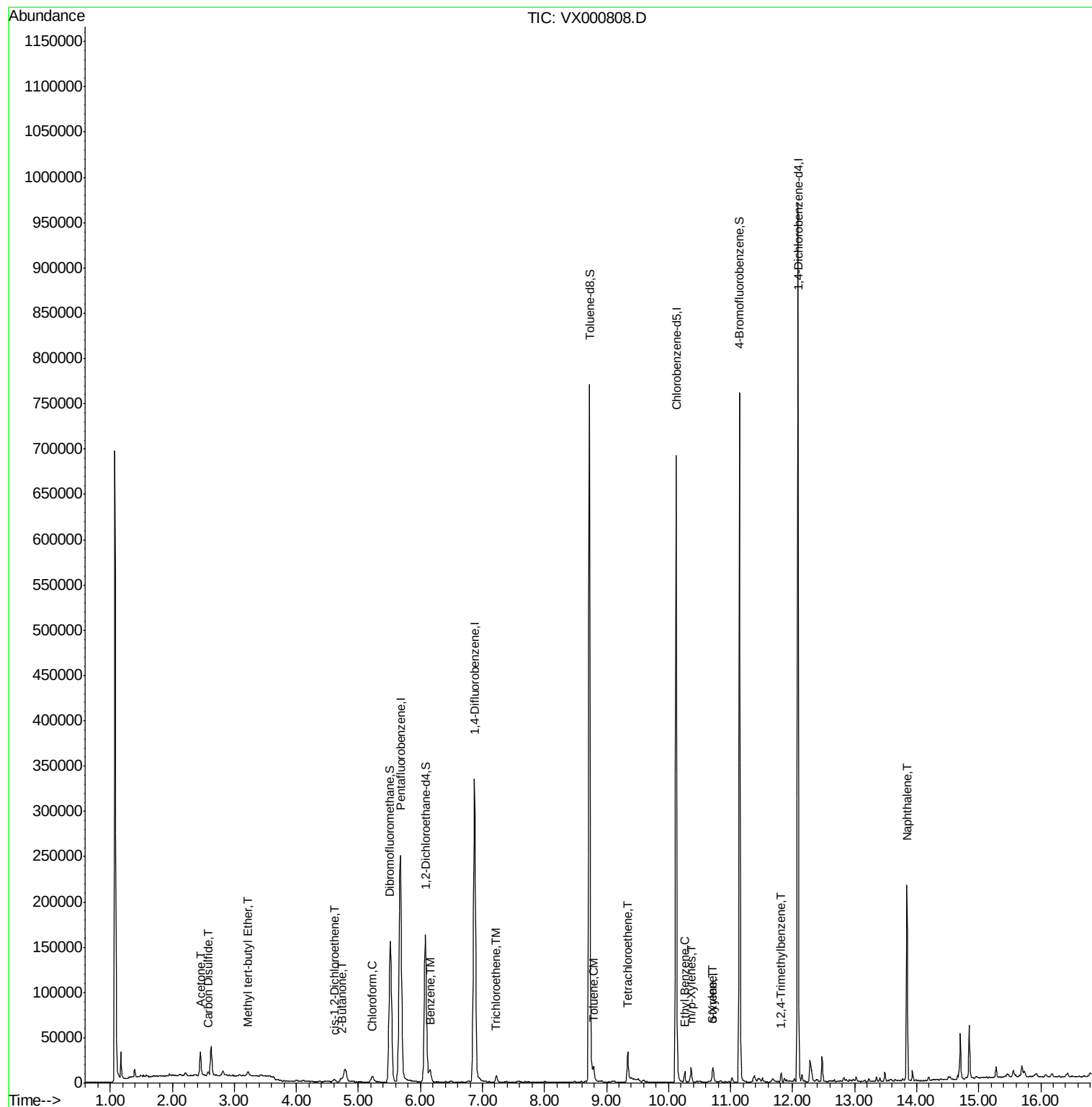
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.45	43	28823	24.12	ug/l	100
17) Carbon Disulfide	2.57	76	4670	0.61	ug/l	97
19) Methyl tert-butyl Ether	3.21	73	5868	0.70	ug/l	98
25) 2-Butanone	4.73	43	7483	3.79	ug/l	100
27) cis-1,2-Dichloroethene	4.61	96	1475	0.47	ug/l	88
30) Chloroform	5.22	83	6904	1.36	ug/l	91
40) Benzene	6.15	78	15087	1.37	ug/l	95
44) Trichloroethene	7.23	130	2944	0.86	ug/l	87
52) Toluene	8.79	92	4309	0.59	ug/l	99
64) Tetrachloroethene	9.34	164	5984	1.90	ug/l	98
67) Ethyl Benzene	10.26	91	7070	0.52	ug/l	98
68) m/p-Xylenes	10.36	106	3835	0.72	ug/l	97
69) o-Xylene	10.71	106	2406	0.47	ug/l	99
70) Styrene	10.72	104	4618	0.53	ug/l	95
84) 1,2,4-Trimethylbenzene	11.81	105	4207	0.36	ug/l	98
95) Naphthalene	13.84	128	126387	8.33	ug/l	100

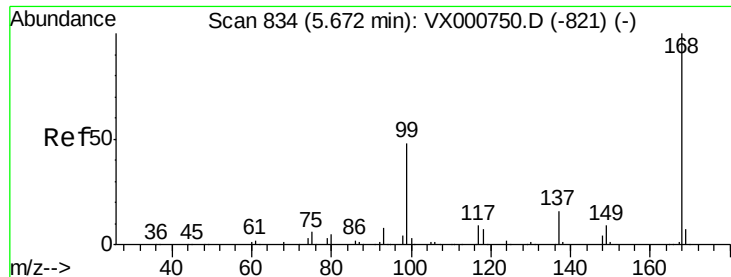
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.01 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

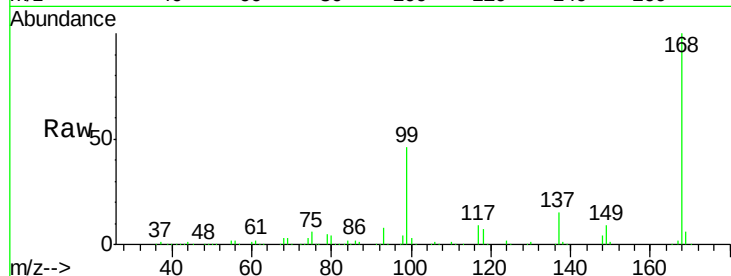
MW-103

Tot Ion:168 Resp: 274872

Ion Ratio Lower Upper

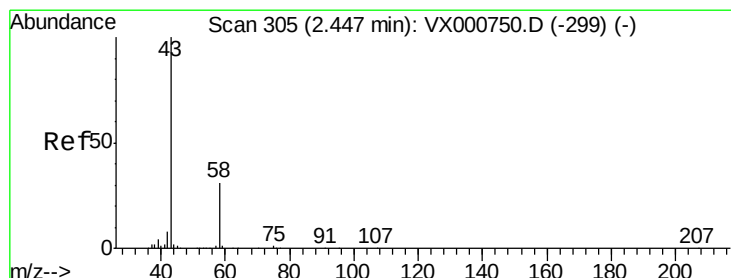
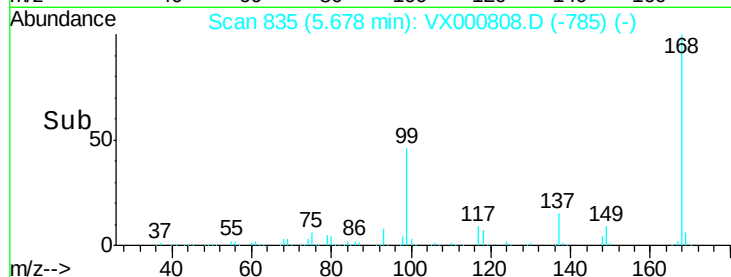
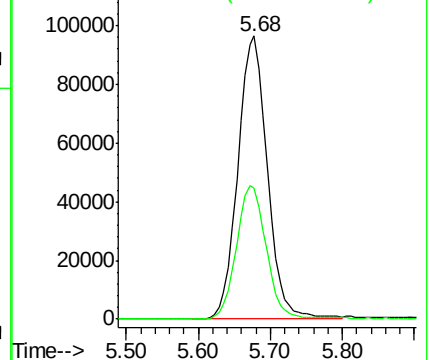
168 100

99 46.2 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 24.12 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000808.D

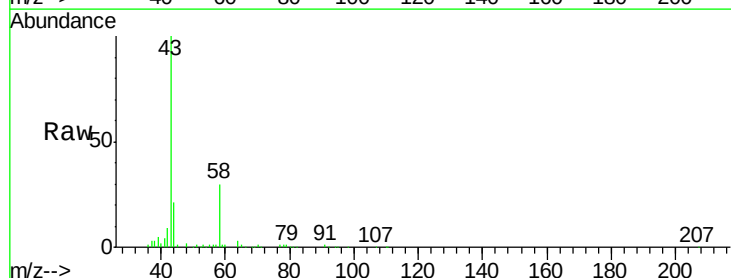
Acq: 12 Apr 2018 17:48

Tgt Ion: 43 Resp: 28823

Ion Ratio Lower Upper

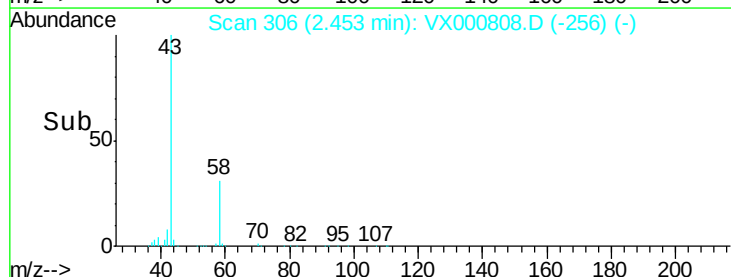
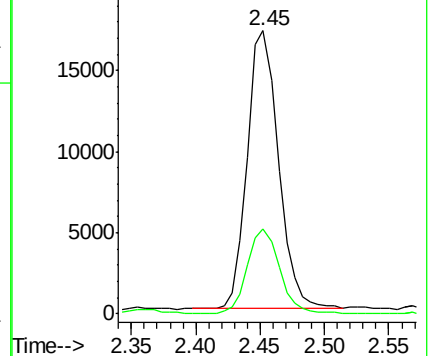
43 100

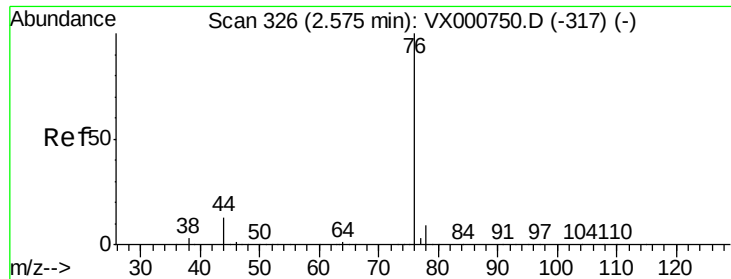
58 30.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.61 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

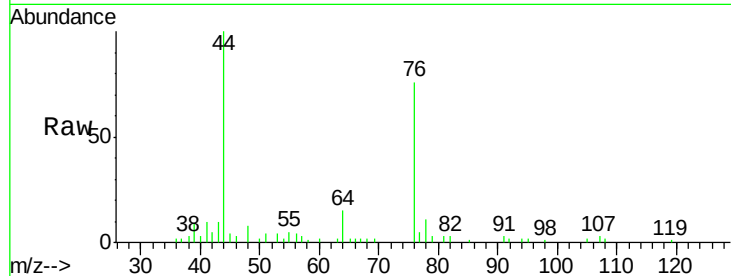
MW-103

Tot Ion: 76 Resp: 4670

Ion Ratio Lower Upper

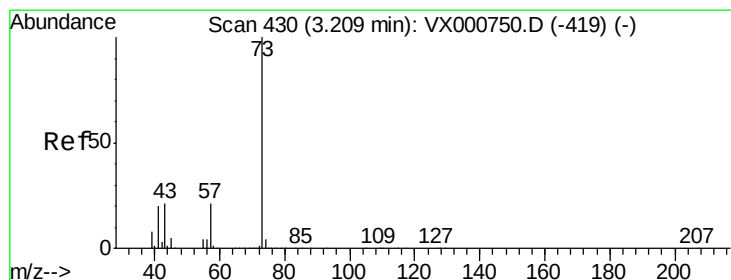
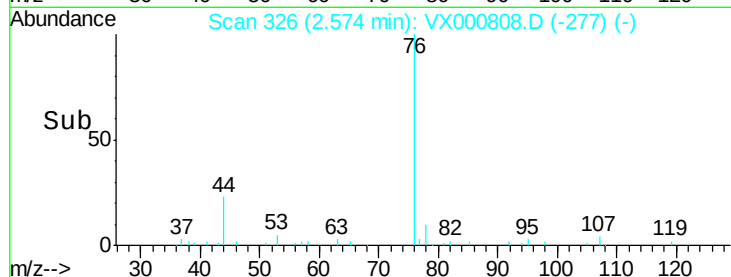
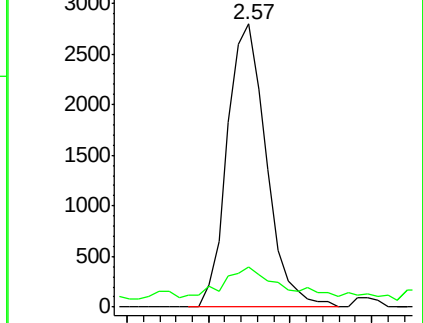
76 100

78 10.4 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 0.70 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.00 min

Lab File: VX000808.D

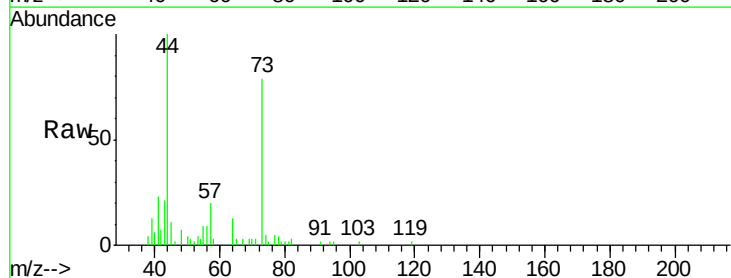
Acq: 12 Apr 2018 17:48

Tgt Ion: 73 Resp: 5868

Ion Ratio Lower Upper

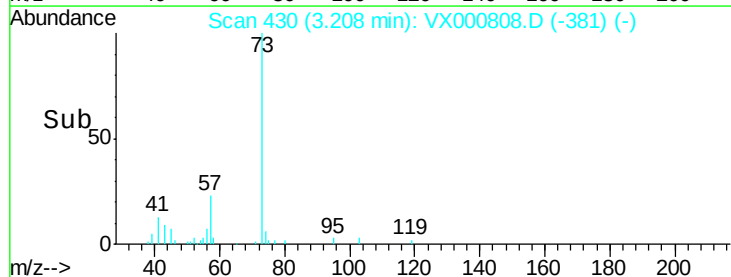
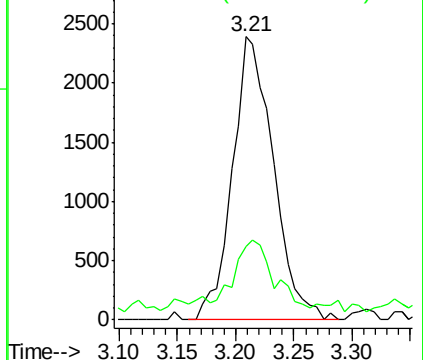
73 100

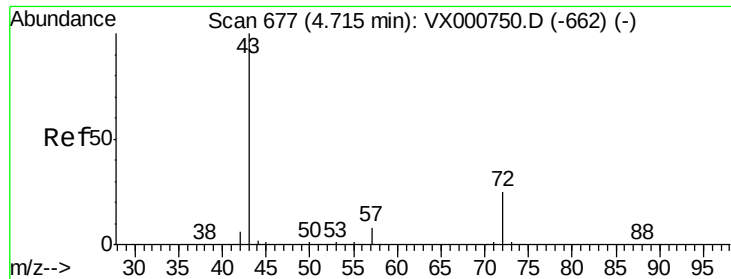
57 20.2 16.9 25.3



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#25

2-Butanone

Concen: 3.79 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

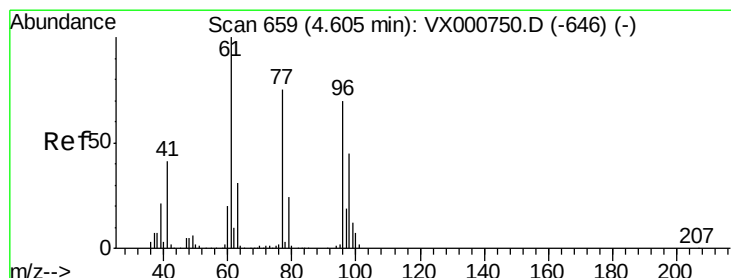
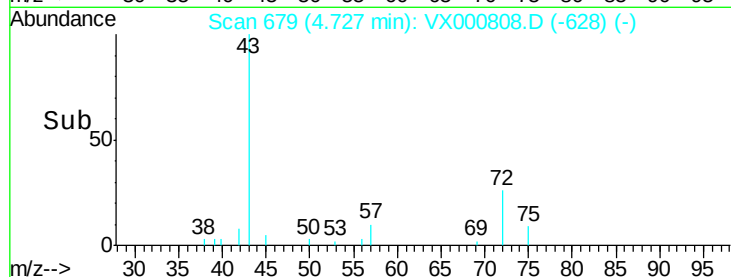
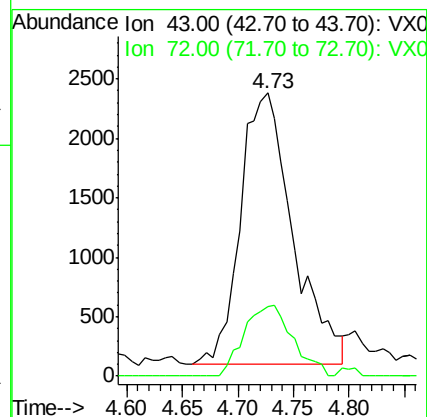
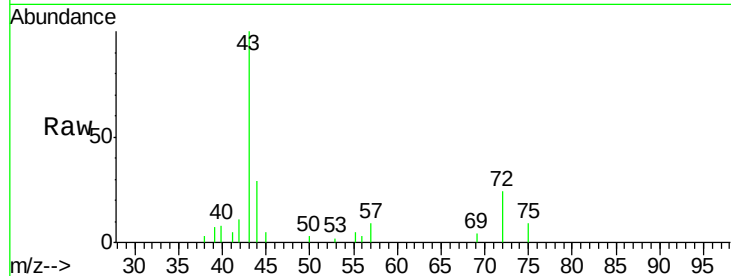
MW-103

Tot Ion: 43 Resp: 7483

Ion Ratio Lower Upper

43 100

72 25.5 20.3 30.5



#27

cis-1,2-Dichloroethene

Concen: 0.47 ug/l

RT: 4.61 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

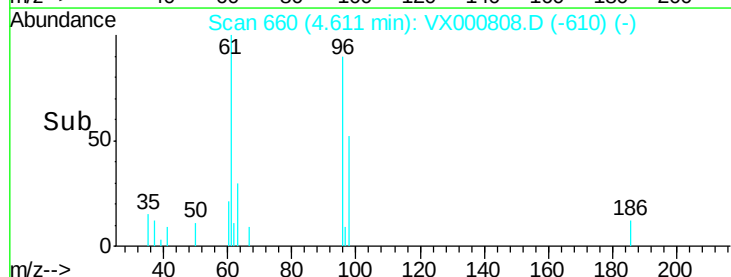
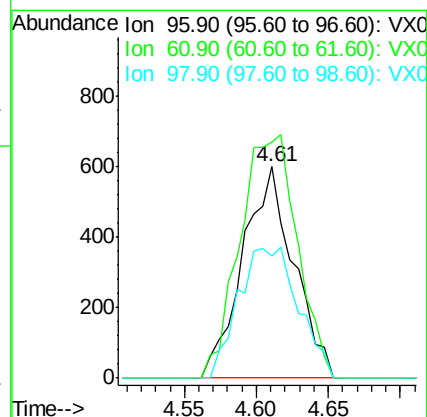
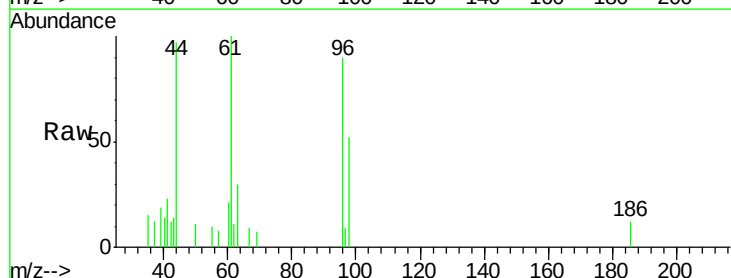
Tgt Ion: 96 Resp: 1475

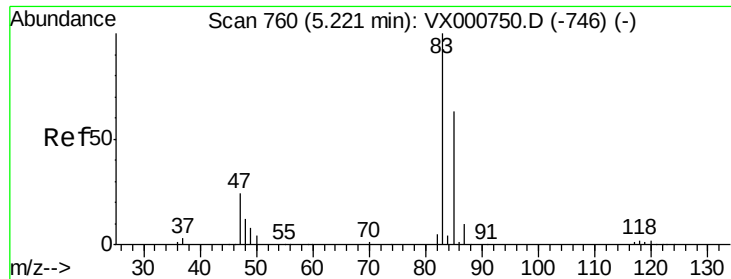
Ion Ratio Lower Upper

96 100

61 129.2 0.0 292.4

98 72.7 0.0 130.2





#30

Chloroform

Concen: 1.36 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.00 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

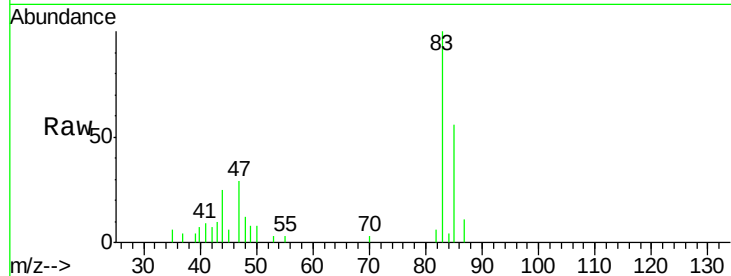
MW-103

Tot Ion: 83 Resp: 6904

Ion Ratio Lower Upper

83 100

85 56.4 50.7 76.1



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.22

2500

2000

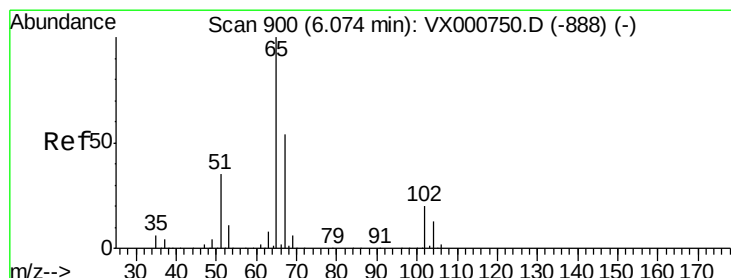
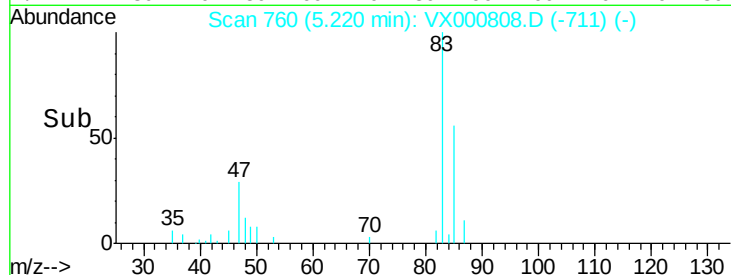
1500

1000

500

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 45.07 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000808.D

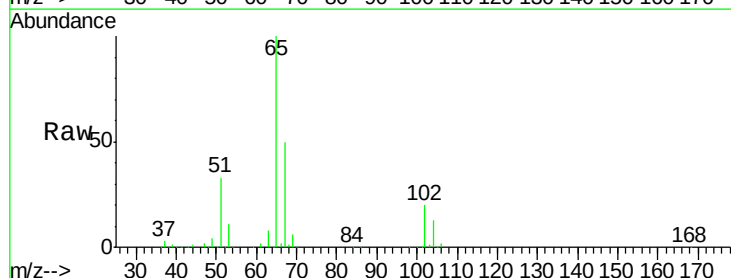
Acq: 12 Apr 2018 17:48

Tgt Ion: 65 Resp: 156198

Ion Ratio Lower Upper

65 100

67 51.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.08

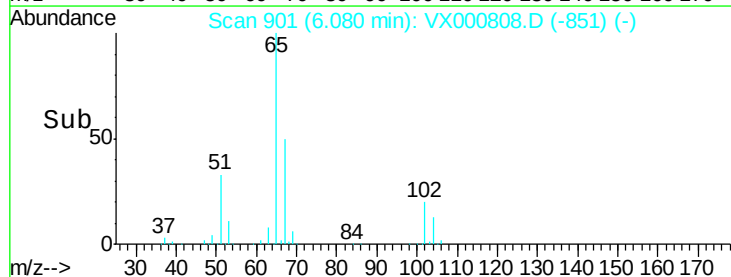
60000

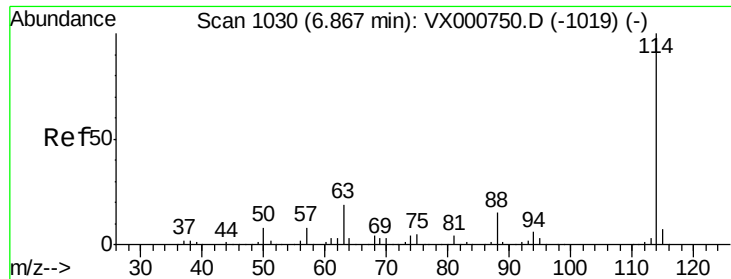
40000

20000

0

Time-->

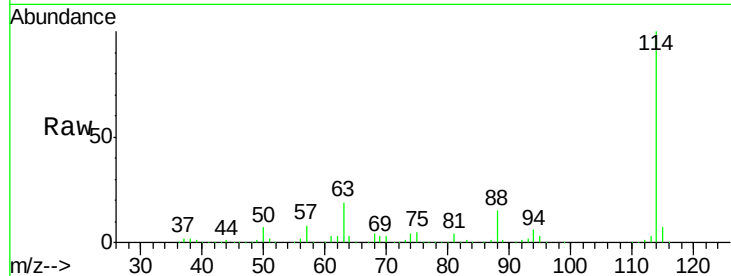




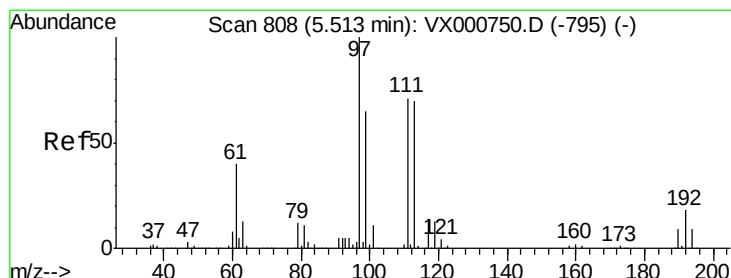
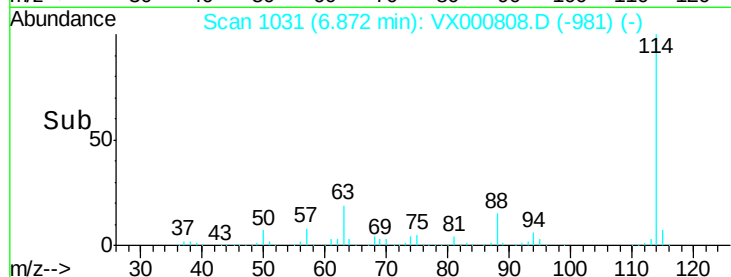
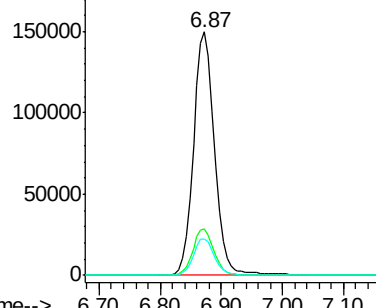
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VX000808.D
Acq: 12 Apr 2018 17:48

Instrument :
MSVOA_X
ClientSampleId :
MW-103

Tot Ion:114 Resp: 359491
Ion Ratio Lower Upper
114 100
63 18.9 0.0 38.4
88 14.8 0.0 31.0

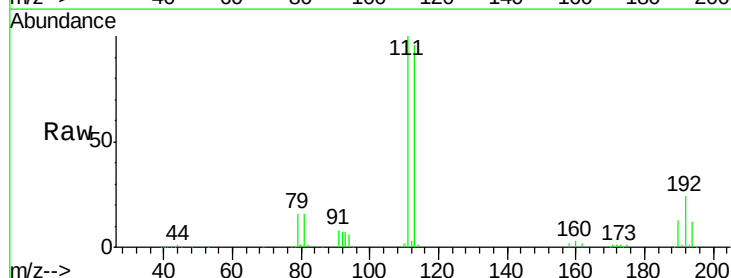


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

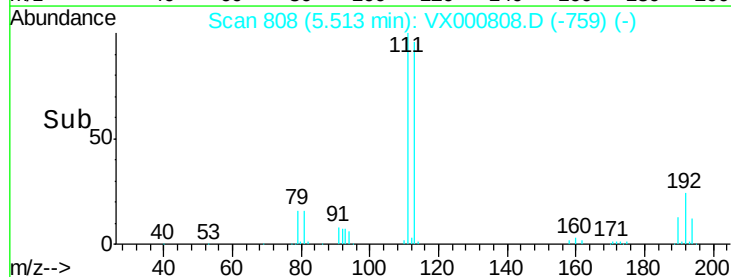
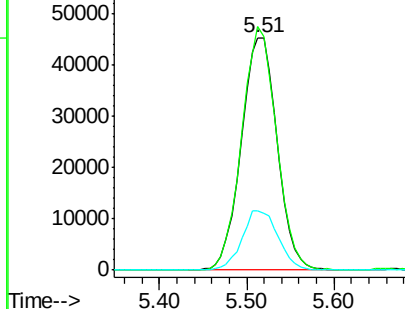


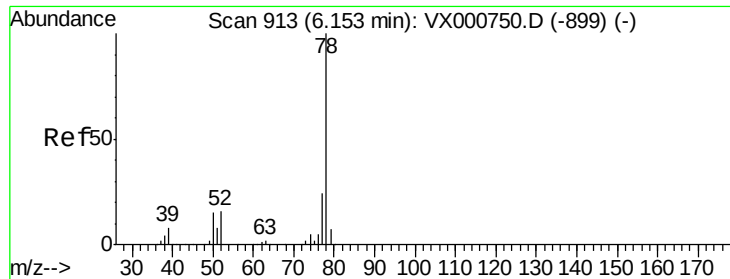
#35
Dibromofluoromethane
Concen: 46.81 ug/l
RT: 5.51 min Scan# 808
Delta R.T. -0.00 min
Lab File: VX000808.D
Acq: 12 Apr 2018 17:48

Tgt Ion:113 Resp: 129641
Ion Ratio Lower Upper
113 100
111 101.3 81.5 122.3
192 25.7 20.4 30.6



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





#40

Benzene

Concen: 1.37 ug/l

RT: 6.15 min Scan# 913

Delta R.T. -0.00 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

Instrument :

MSVOA_X

ClientSampleId :

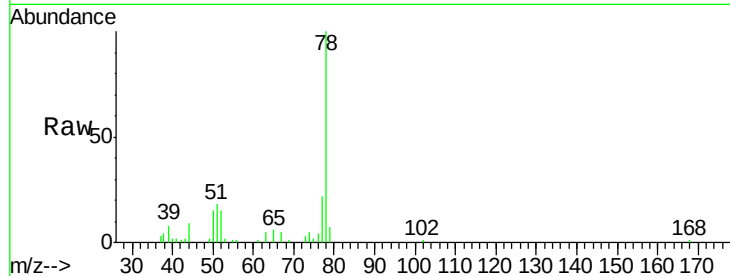
MW-103

Tot Ion: 78 Resp: 15087

Ion Ratio Lower Upper

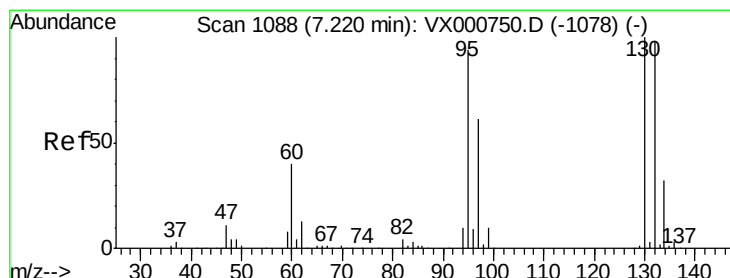
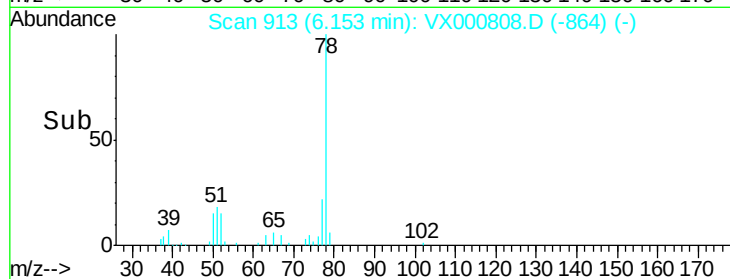
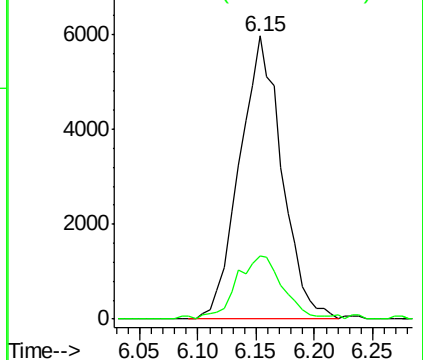
78 100

77 21.3 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: 0.86 ug/l

RT: 7.23 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX000808.D

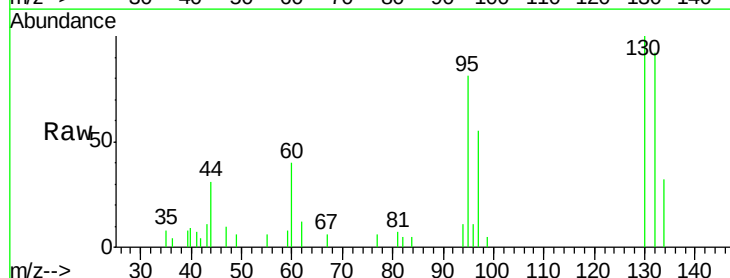
Acq: 12 Apr 2018 17:48

Tgt Ion:130 Resp: 2944

Ion Ratio Lower Upper

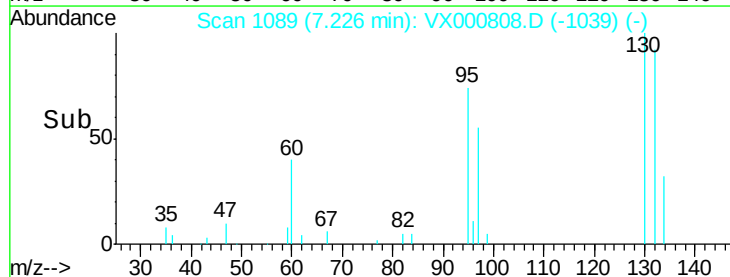
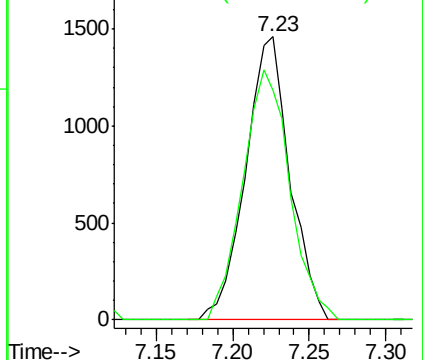
130 100

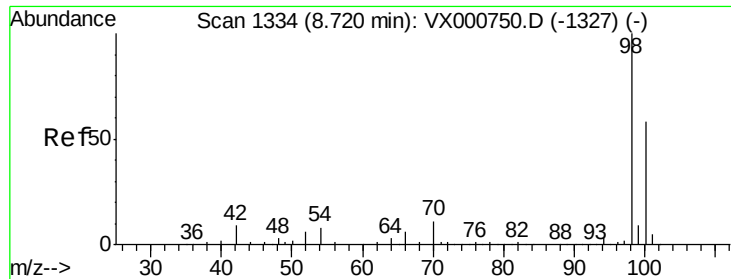
95 81.0 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 47.69 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

Instrument :

MSVOA_X

ClientSampleId :

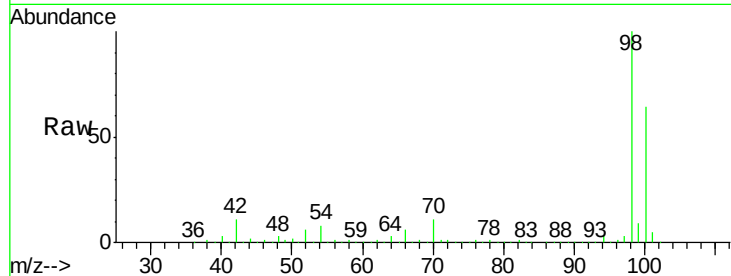
MW-103

Tot Ion: 98 Resp: 491840

Ion Ratio Lower Upper

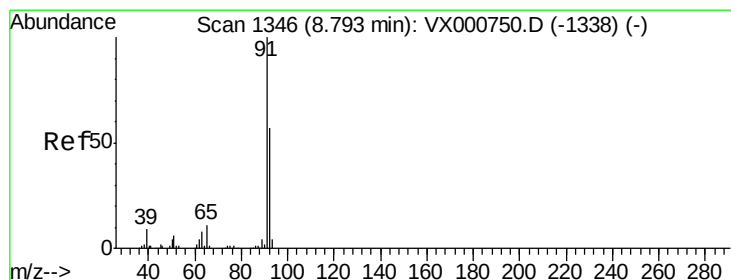
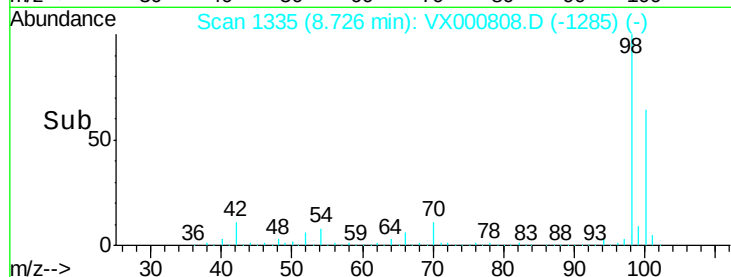
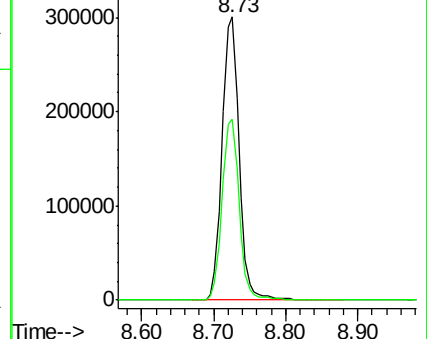
98 100

100 64.5 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#52

Toluene

Concen: 0.59 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VX000808.D

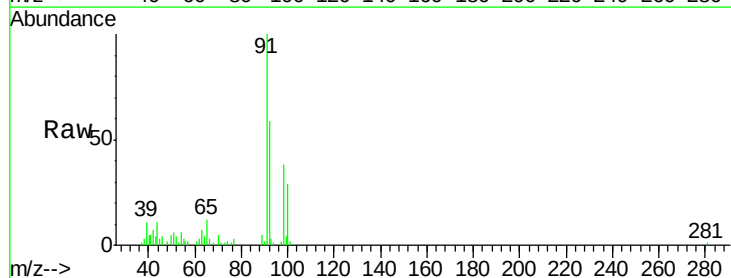
Acq: 12 Apr 2018 17:48

Tgt Ion: 92 Resp: 4309

Ion Ratio Lower Upper

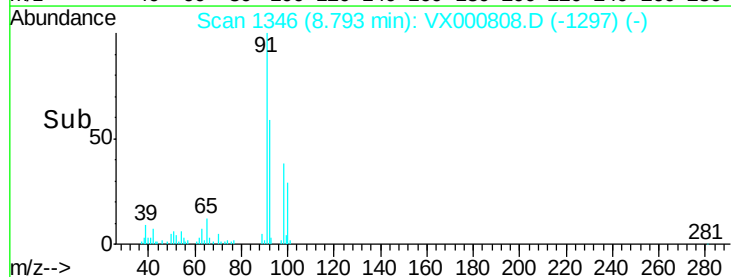
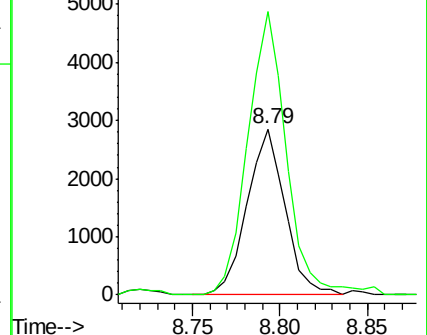
92 100

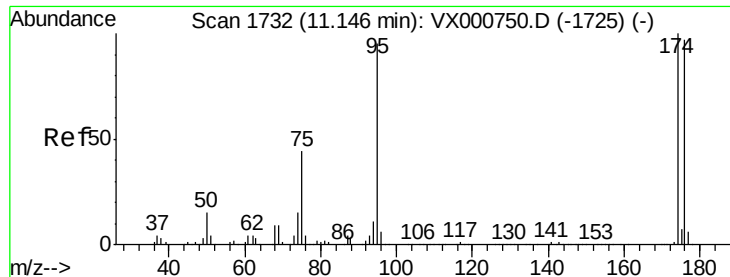
91 174.7 139.0 208.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

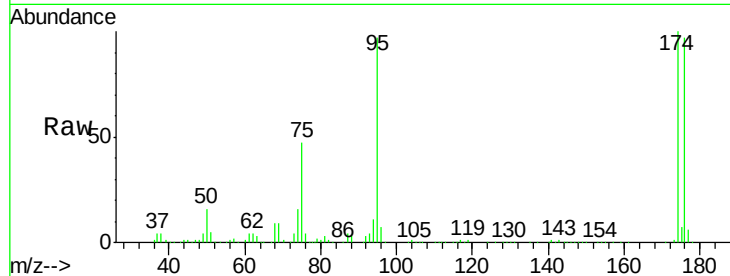




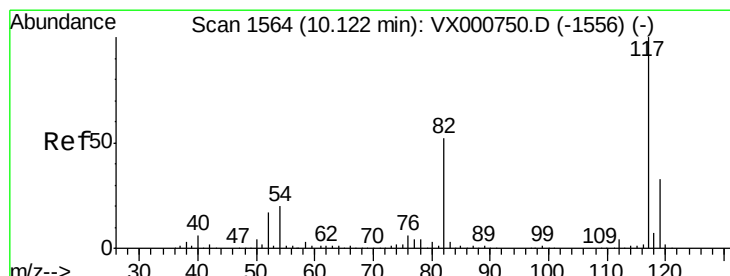
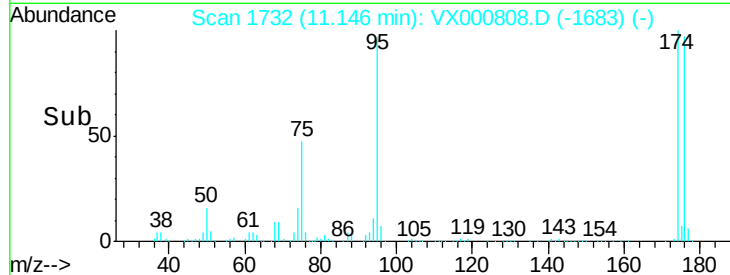
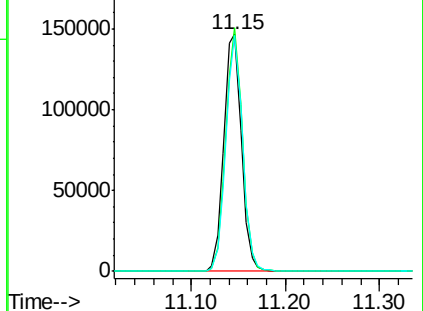
#62
4-Bromofluorobenzene
Concen: 44.56 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VX000808.D
Acq: 12 Apr 2018 17:48

Instrument :
MSVOA_X
ClientSampleId :
MW-103

Tot Ion: 95 Resp: 190124
Ion Ratio Lower Upper
95 100
174 97.4 0.0 198.4
176 94.9 0.0 194.4

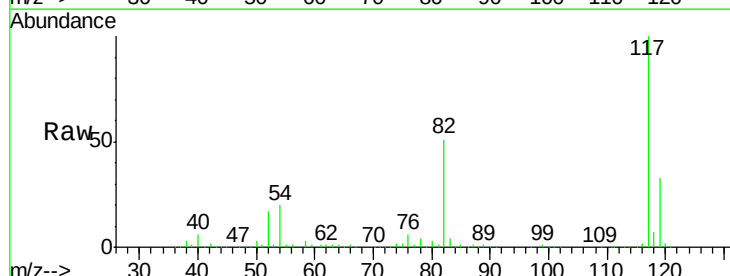


Abundance Ion 94.90 (94.60 to 95.60): VX
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

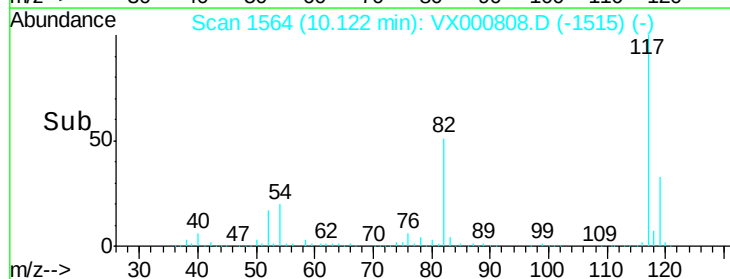
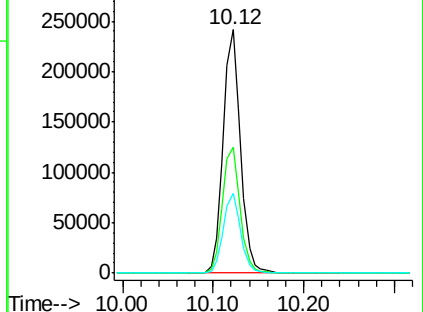


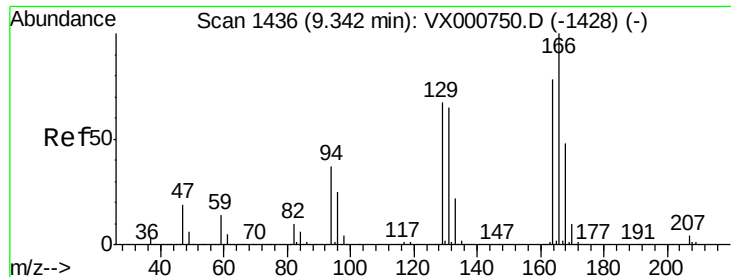
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000808.D
Acq: 12 Apr 2018 17:48

Tgt Ion: 117 Resp: 322697
Ion Ratio Lower Upper
117 100
82 51.5 41.9 62.9
119 32.7 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX
Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 1.90 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.00 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

Instrument :

MSVOA_X

ClientSampleId :

MW-103

Tot Ion:164 Resp: 5984

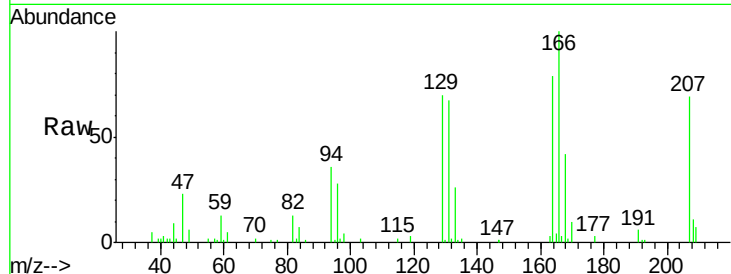
Ion Ratio Lower Upper

164 100

166 127.1 102.8 154.2

129 88.8 68.5 102.7

131 85.0 66.6 100.0

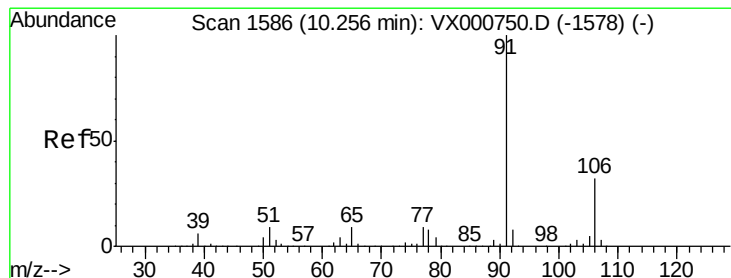
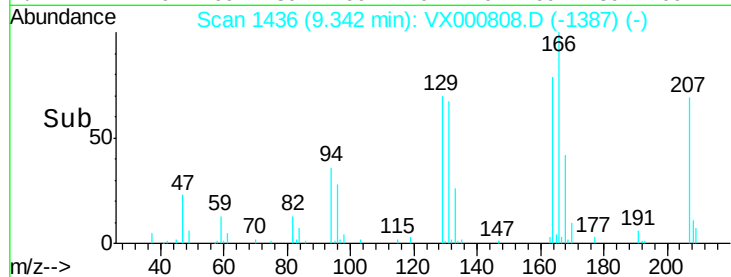
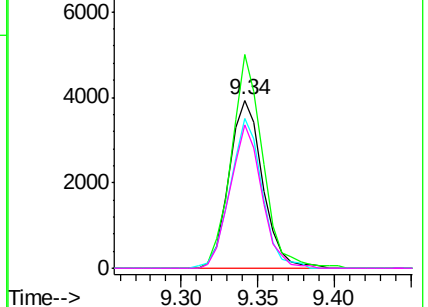


Abundance Ion 163.80 (163.50 to 164.50): V

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



#67

Ethyl Benzene

Concen: 0.52 ug/l

RT: 10.26 min Scan# 1587

Delta R.T. 0.01 min

Lab File: VX000808.D

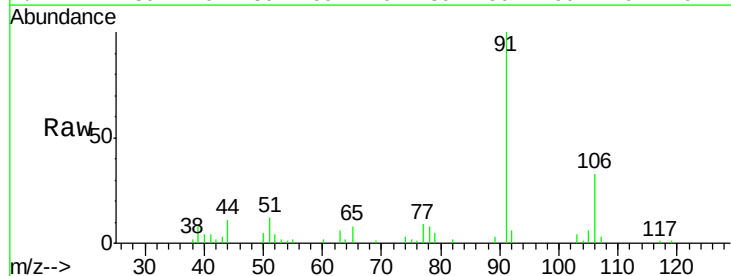
Acq: 12 Apr 2018 17:48

Tgt Ion: 91 Resp: 7070

Ion Ratio Lower Upper

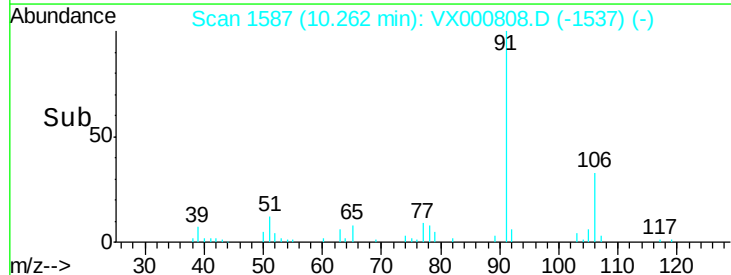
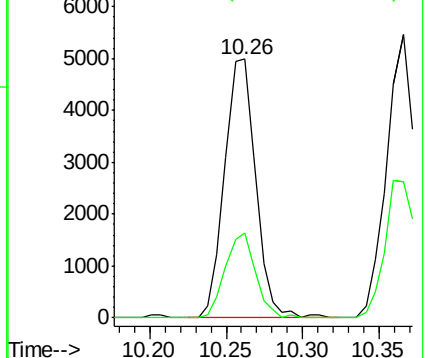
91 100

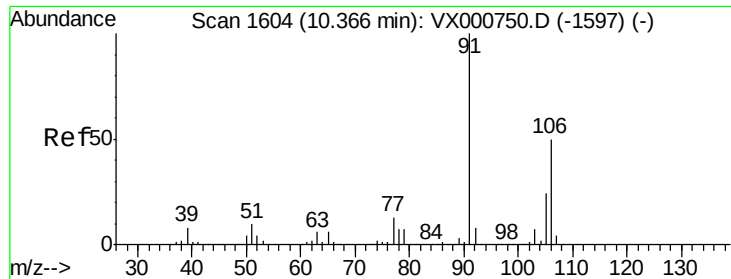
106 32.8 25.4 38.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

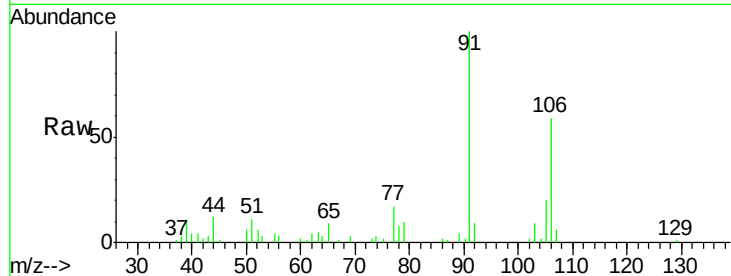




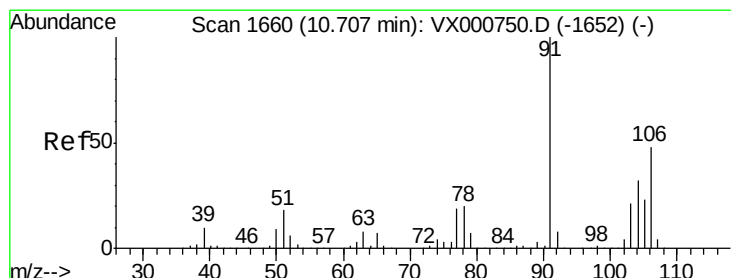
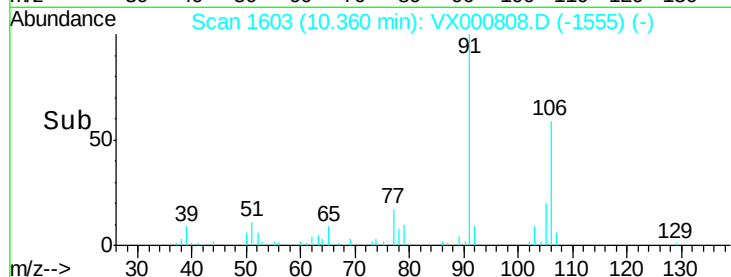
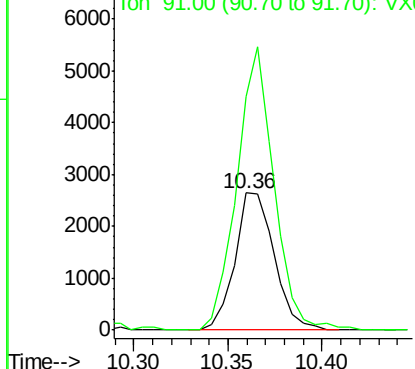
#68
m/p-Xylenes
Concen: 0.72 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX000808.D
Acq: 12 Apr 2018 17:48

Instrument :
MSVOA_X
ClientSampled :
MW-103

Tot Ion:106 Resp: 3835
Ion Ratio Lower Upper
106 100
91 194.4 159.3 238.9

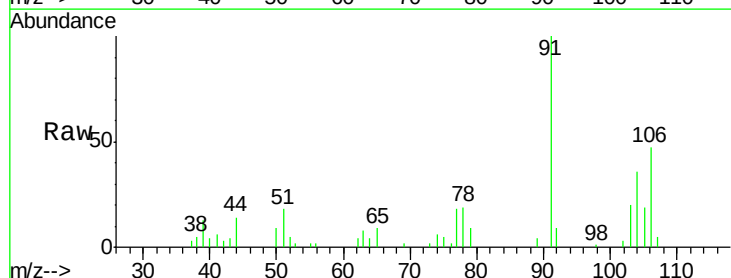


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

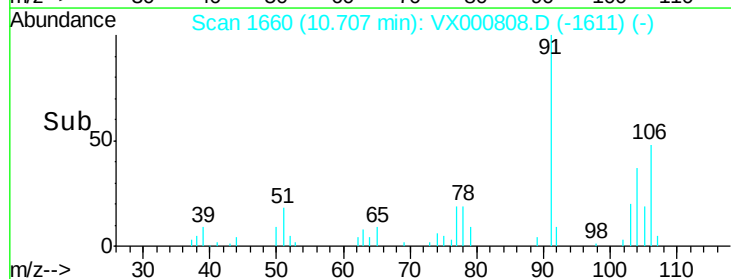
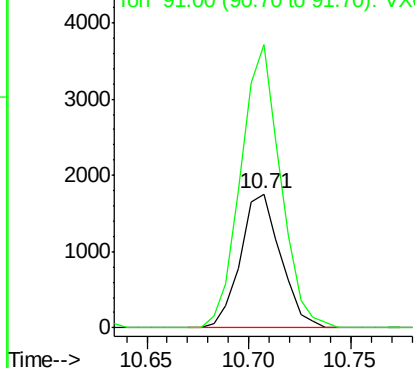


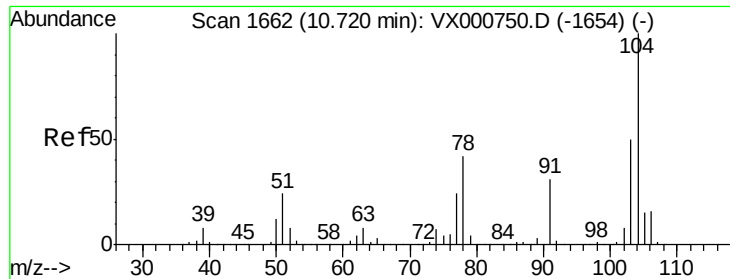
#69
o-Xylene
Concen: 0.47 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VX000808.D
Acq: 12 Apr 2018 17:48

Tgt Ion:106 Resp: 2406
Ion Ratio Lower Upper
106 100
91 208.9 105.0 315.0



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

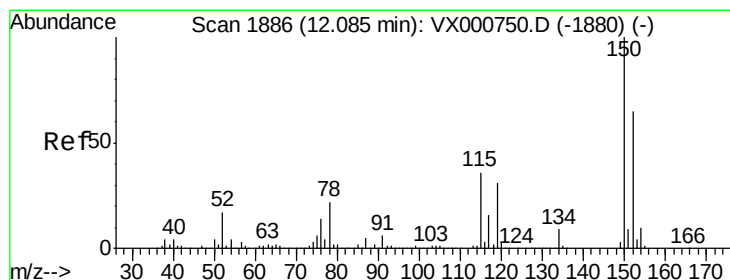
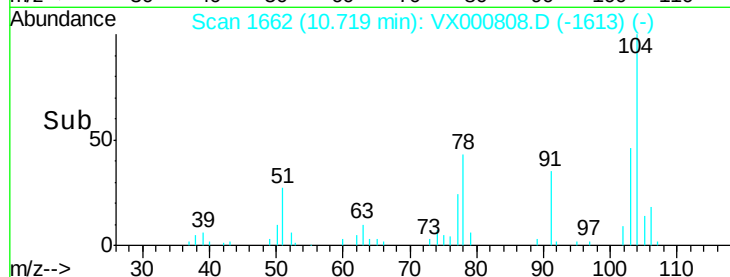
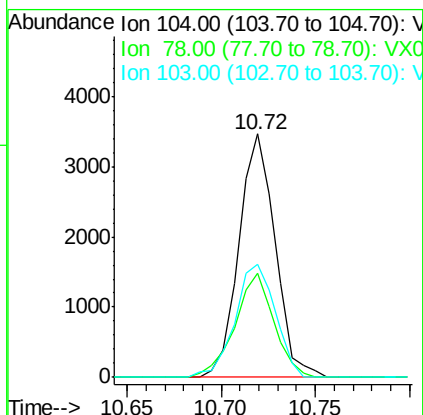
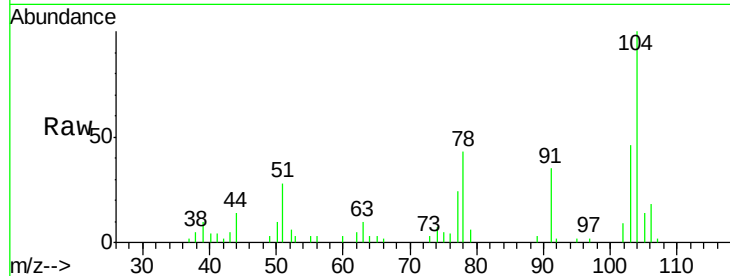




#70
Stvrene
Concen: 0.53 ug/l
RT: 10.72 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VX000808.D
Acq: 12 Apr 2018 17:48

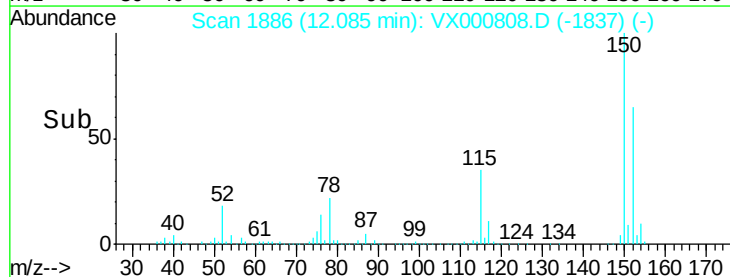
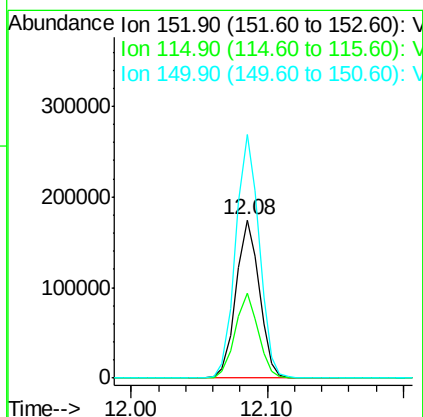
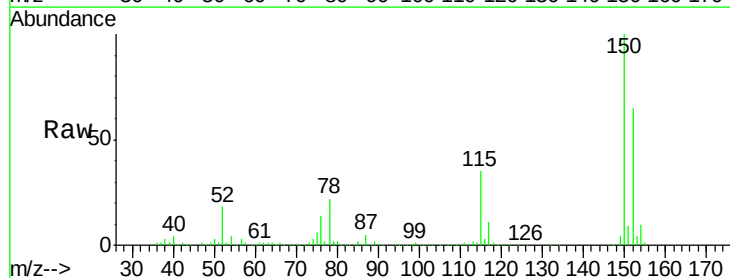
Instrument :
MSVOA_X
ClientSampled :
MW-103

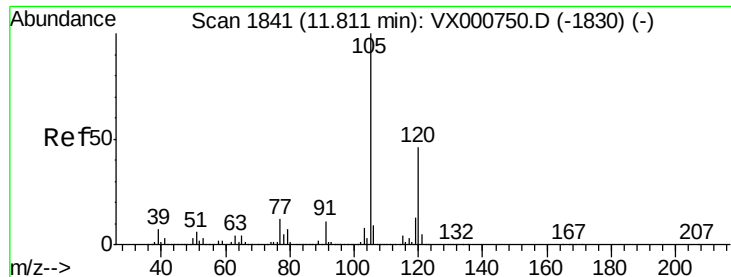
Tot Ion:104 Resp: 4618
Ion Ratio Lower Upper
104 100
78 45.8 39.0 58.6
103 51.5 44.1 66.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000808.D
Acq: 12 Apr 2018 17:48

Tgt Ion:152 Resp: 208500
Ion Ratio Lower Upper
152 100
115 53.2 37.9 113.7
150 155.3 0.0 348.0





#84

1,2,4-Trimethylbenzene

Concen: 0.36 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

Instrument :

MSVOA_X

ClientSampleId :

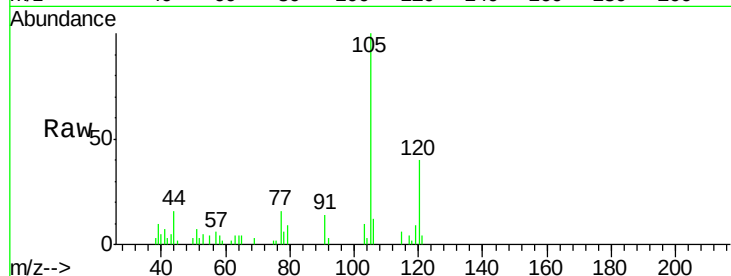
MW-103

Tot Ion:105 Resp: 4207

Ion Ratio Lower Upper

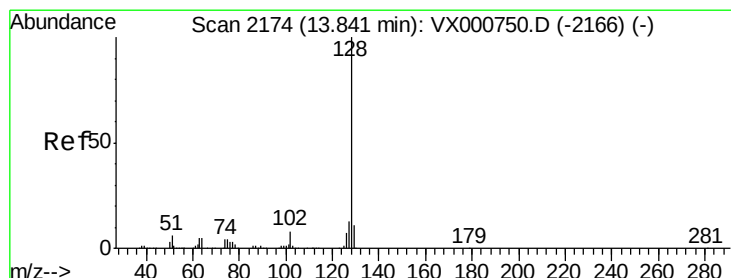
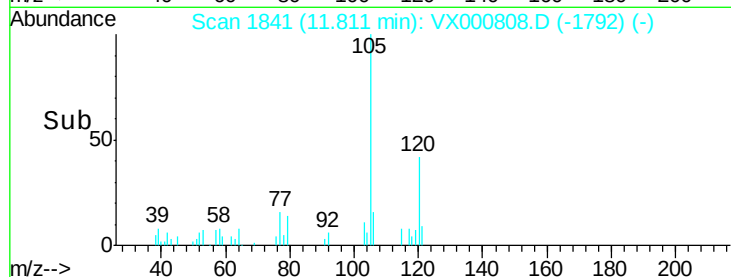
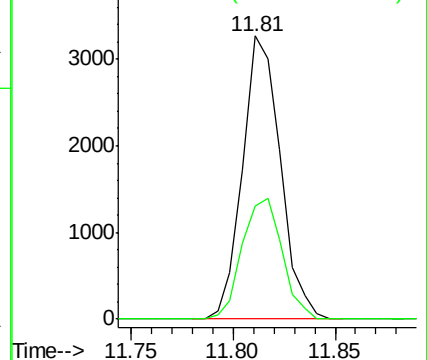
105 100

120 45.0 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 8.33 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000808.D

Acq: 12 Apr 2018 17:48

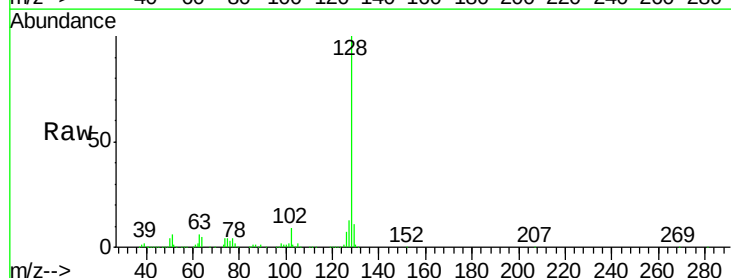
Tgt Ion:128 Resp: 126387

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

129 10.7 8.7 13.1



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

