

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053118\
 Data File : VX002174.D
 Acq On : 31 May 2018 13:38
 Operator : JC/MD
 Sample : J3173-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-1

Quant Time: May 31 16:30:08 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	48074	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	256351	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	208584	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	116122	30.70	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.33%
60) 4-Bromofluorobenzene	11.14	95	96488	27.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.07%
63) Toluene-d8	8.72	98	290652	31.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.20%

Target Compounds

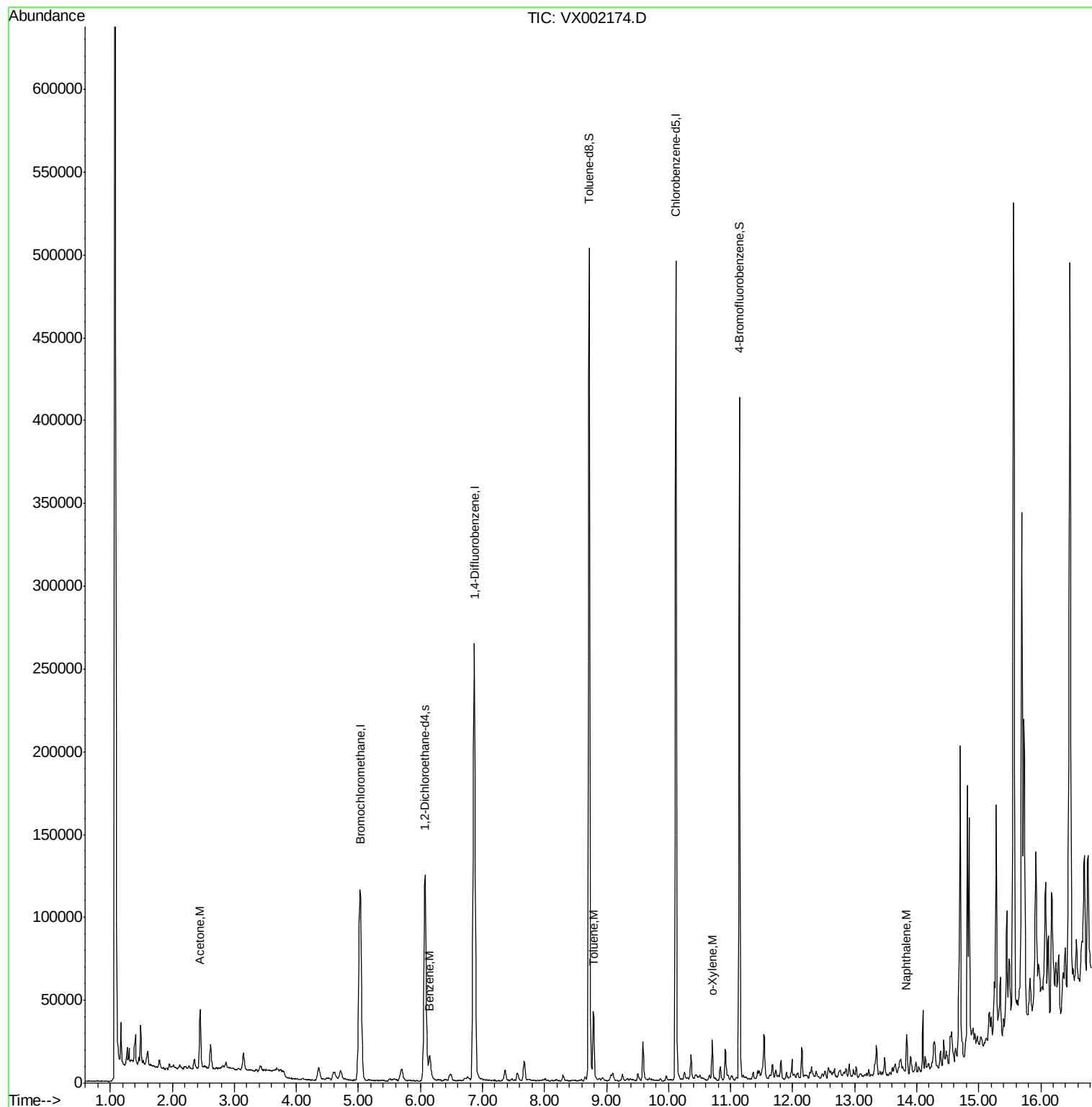
					Ovalue
15) Acetone	2.45	58	10122	23.805 ug/l	91
34) Benzene	6.15	78	15934	1.471 ug/l	98
62) Toluene	8.79	91	23314	2.189 ug/l	99
68) o-Xylene	10.70	106	4930	1.083 ug/l	96
91) Naphthalene	13.83	128	14217	1.062 ug/l	97

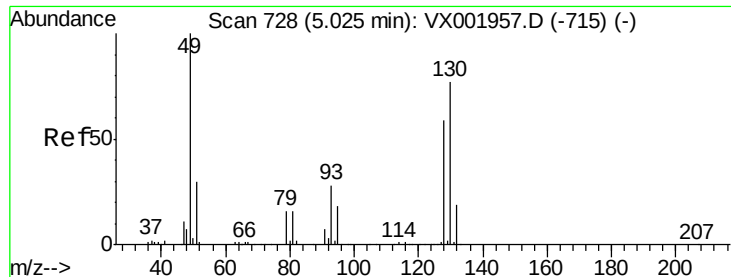
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 728

Delta R.T. -0.00 min

Lab File: VX002174.D

Acq: 31 May 2018 13:38

Instrument :

MSVOA_X

ClientSampled :

W-1

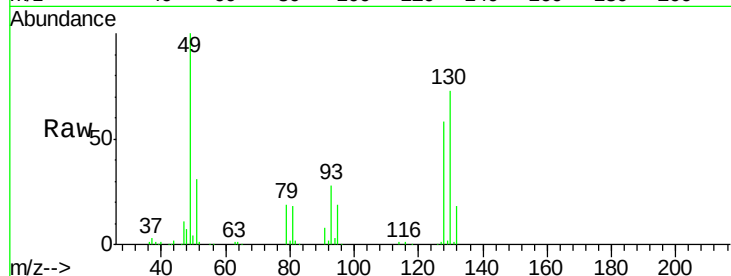
Tot Ion:128 Resp: 48074

Ion Ratio Lower Upper

128 100

49 170.0 0.0 423.0

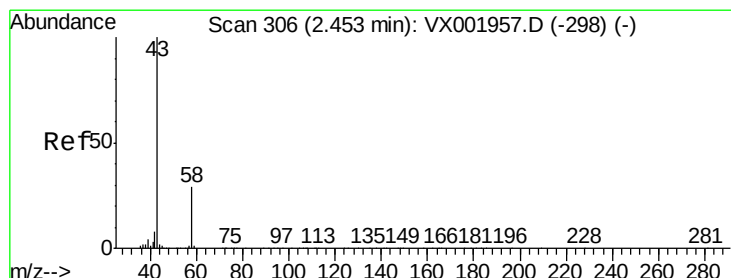
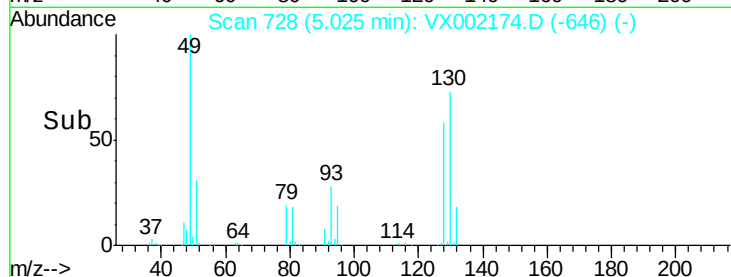
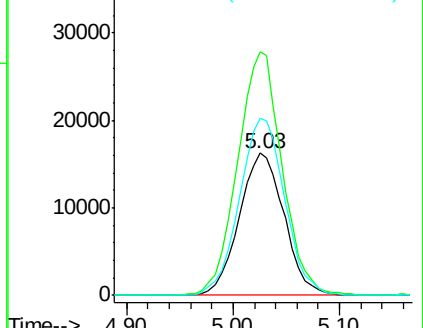
130 125.7 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 23.805 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002174.D

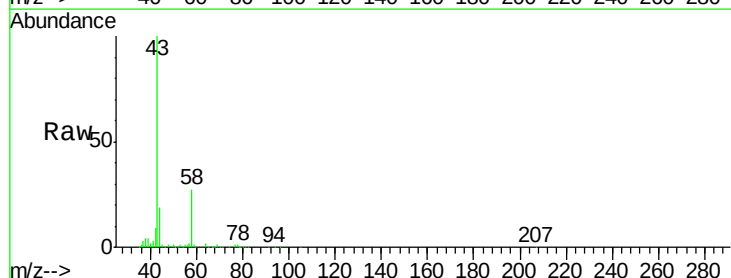
Acq: 31 May 2018 13:38

Tgt Ion: 58 Resp: 10122

Ion Ratio Lower Upper

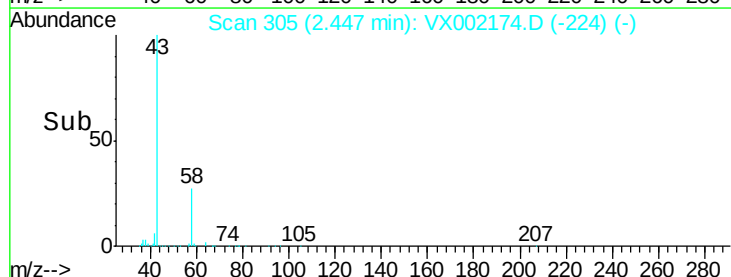
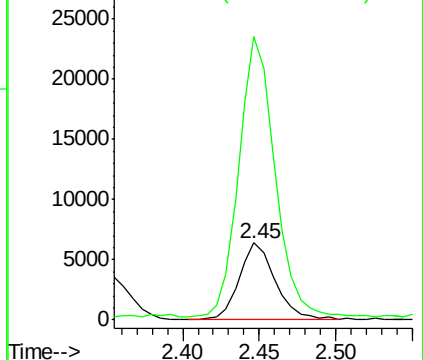
58 100

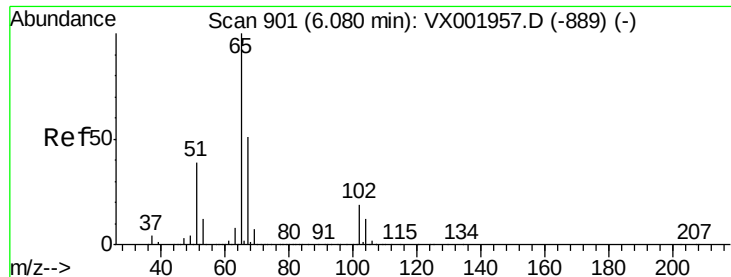
43 367.8 278.8 418.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 30.696 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX002174.D

Acq: 31 May 2018 13:38

Instrument :

MSVOA_X

ClientSampled :

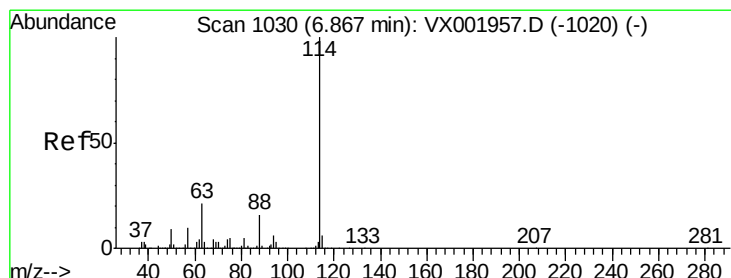
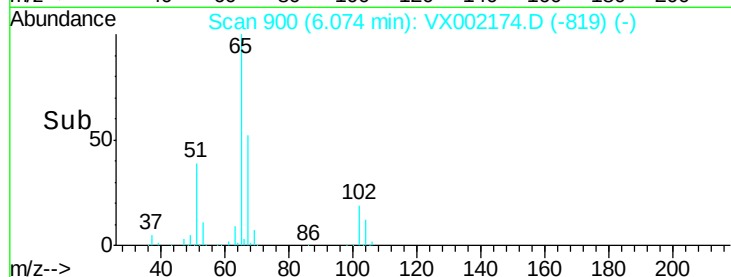
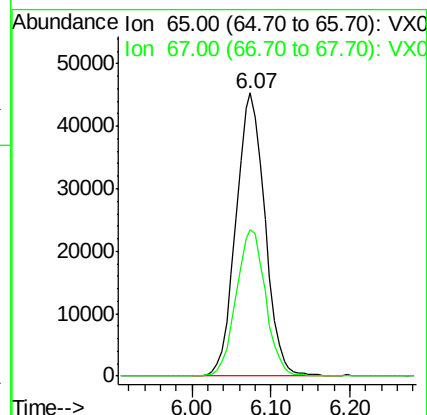
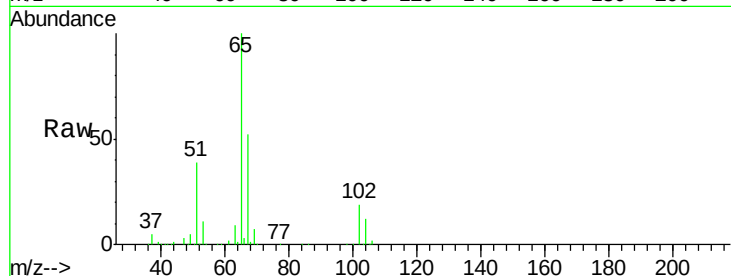
W-1

Tot Ion: 65 Resp: 116122

Ion Ratio Lower Upper

65 100

67 52.3 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002174.D

Acq: 31 May 2018 13:38

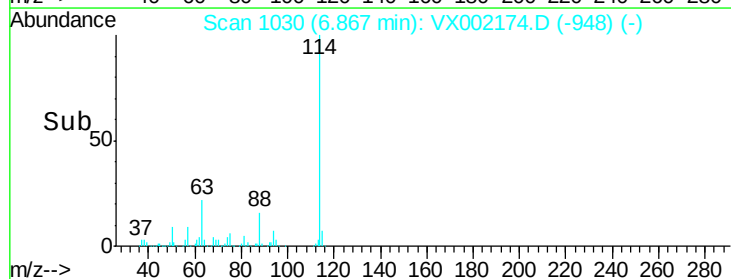
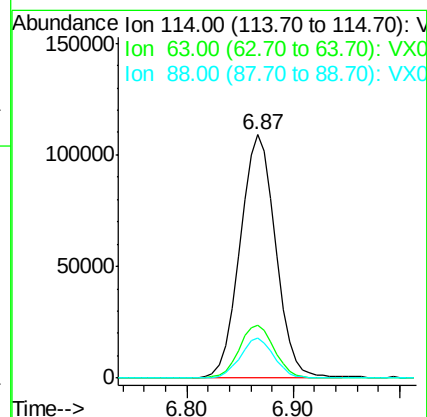
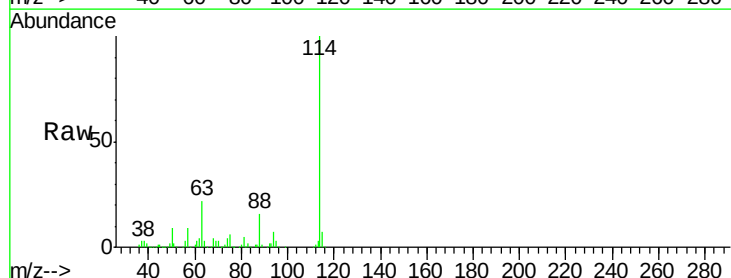
Tgt Ion: 114 Resp: 256351

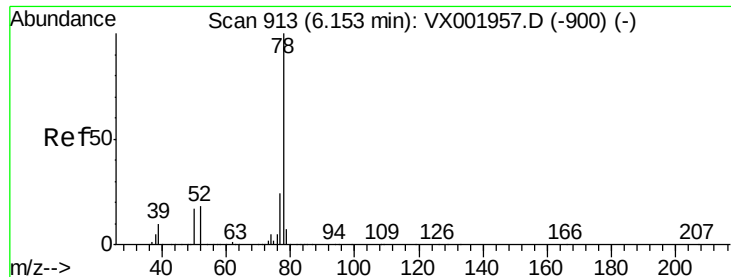
Ion Ratio Lower Upper

114 100

63 21.5 17.1 25.7

88 15.6 12.6 19.0





#34

Benzene

Concen: 1.471 ug/l

RT: 6.15 min Scan# 913

Delta R.T. -0.00 min

Lab File: VX002174.D

Acq: 31 May 2018 13:38

Instrument :

MSVOA_X

ClientSampleId :

W-1

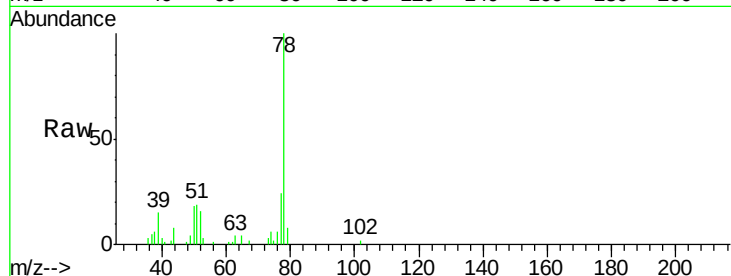
Tot Ion: 78 Resp: 15934

Ion Ratio Lower Upper

78 100

77 23.8 19.4 29.0

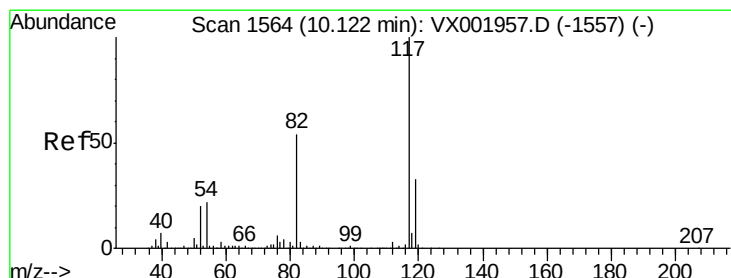
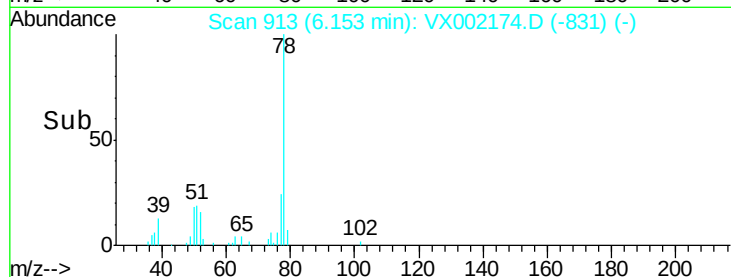
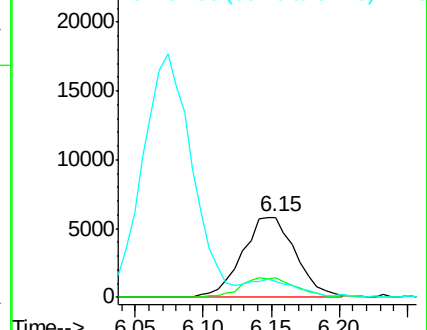
51 16.0 13.8 20.6



Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VX002174.D

Acq: 31 May 2018 13:38

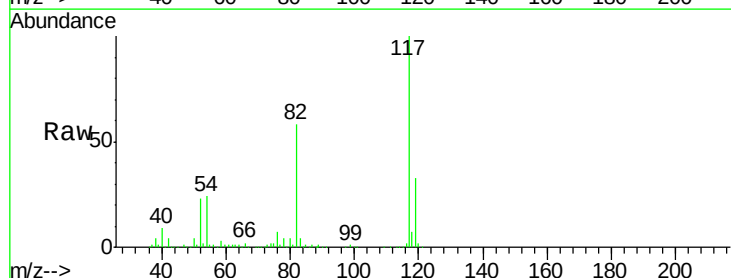
Tgt Ion: 117 Resp: 208584

Ion Ratio Lower Upper

117 100

82 56.5 44.3 66.5

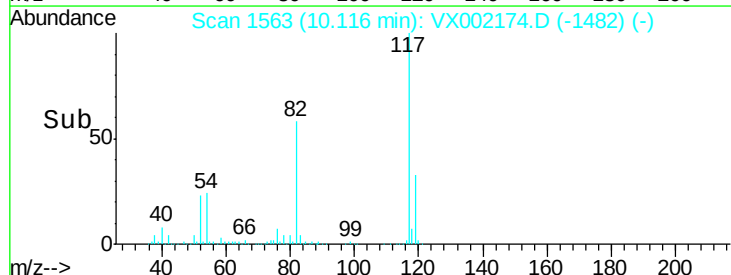
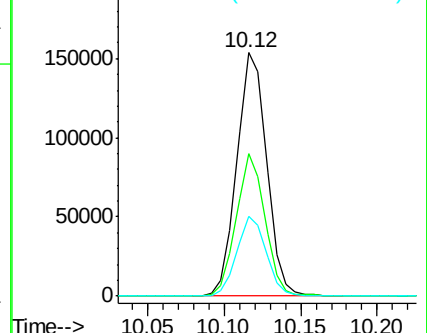
119 32.5 25.7 38.5

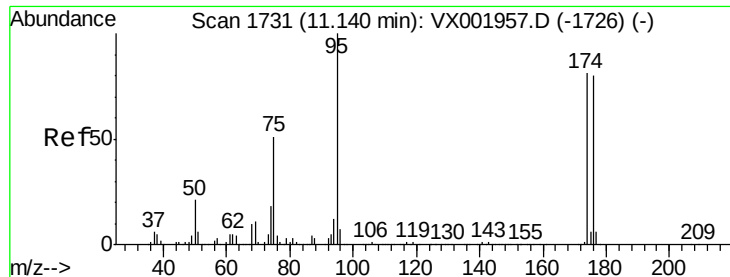


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 27.023 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002174.D

Acq: 31 May 2018 13:38

Instrument :

MSVOA_X

ClientSampled :

W-1

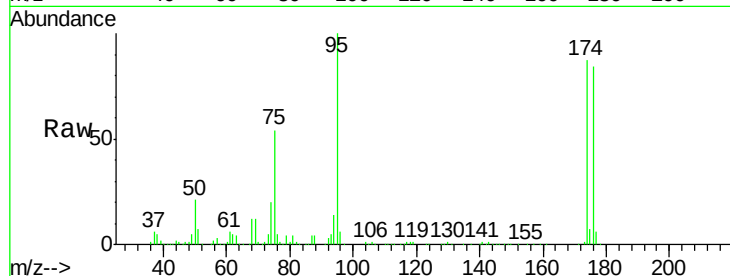
Tot Ion: 95 Resp: 96488

Ion Ratio Lower Upper

95 100

174 93.2 71.8 107.6

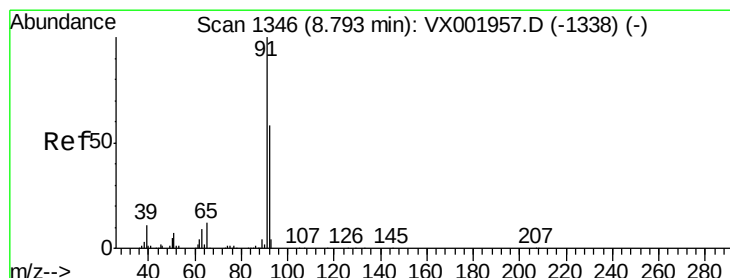
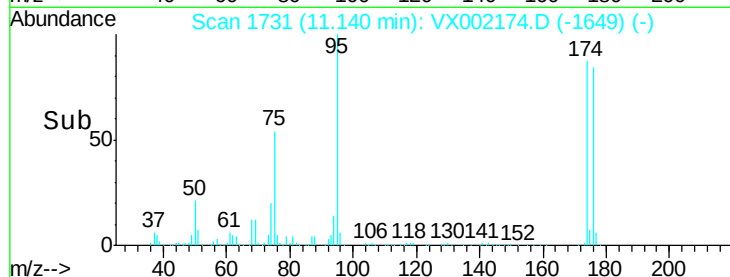
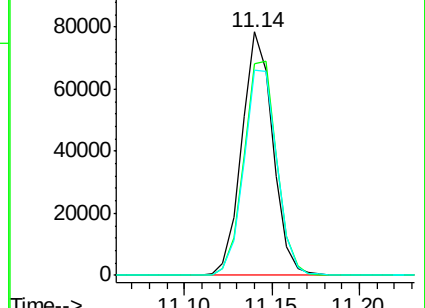
176 89.8 70.1 105.1



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#62

Toluene

Concen: 2.189 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VX002174.D

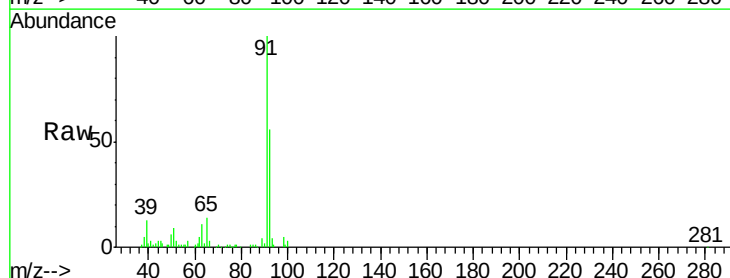
Acq: 31 May 2018 13:38

Tgt Ion: 91 Resp: 23314

Ion Ratio Lower Upper

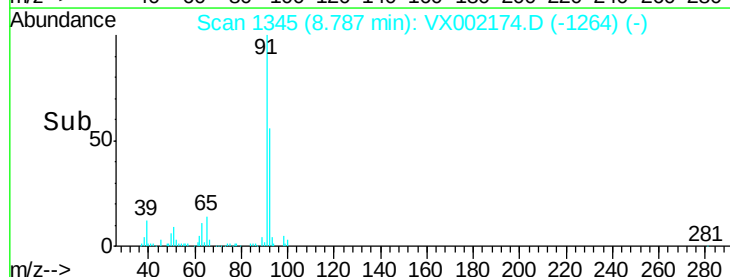
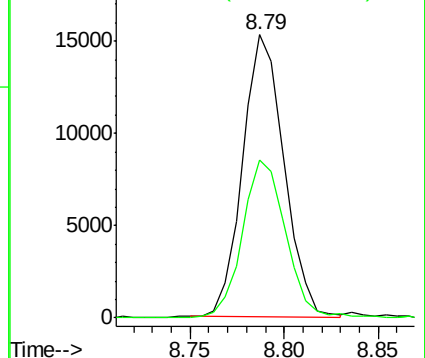
91 100

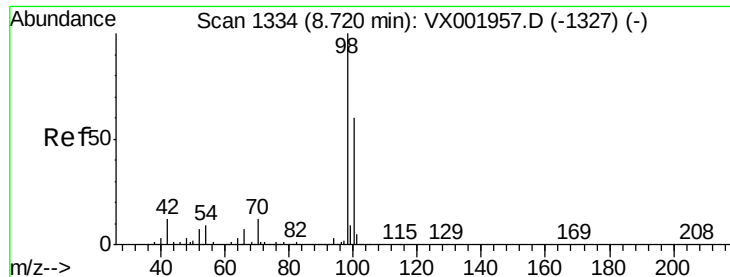
92 58.7 46.5 69.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 31.264 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002174.D

Acq: 31 May 2018 13:38

Instrument :

MSVOA_X

ClientSampleId :

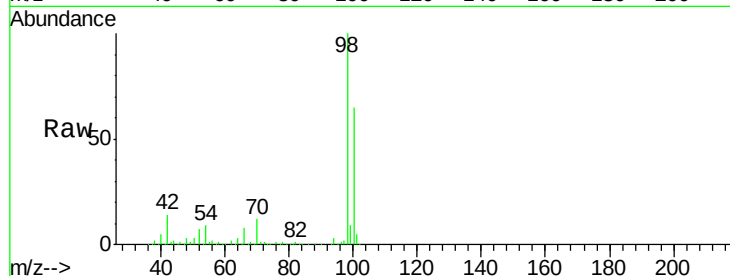
W-1

Tot Ion: 98 Resp: 290652

Ion Ratio Lower Upper

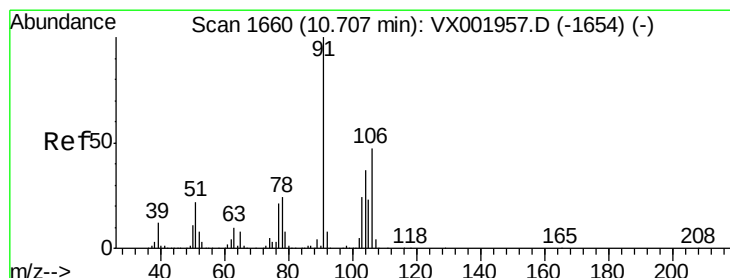
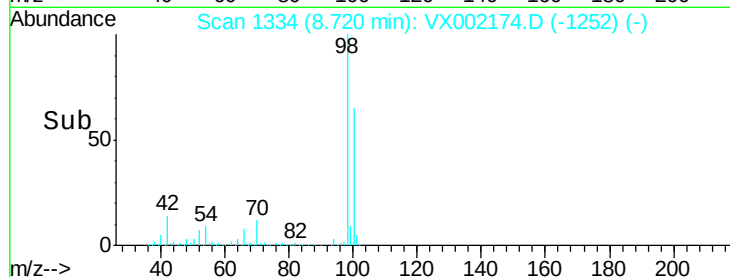
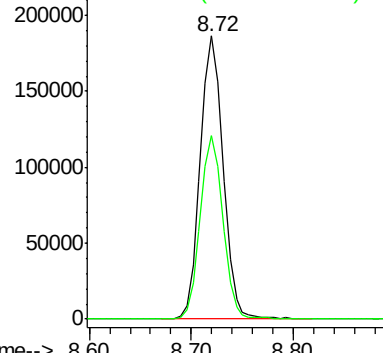
98 100

100 64.2 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#68

o-Xylene

Concen: 1.083 ug/l

RT: 10.70 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VX002174.D

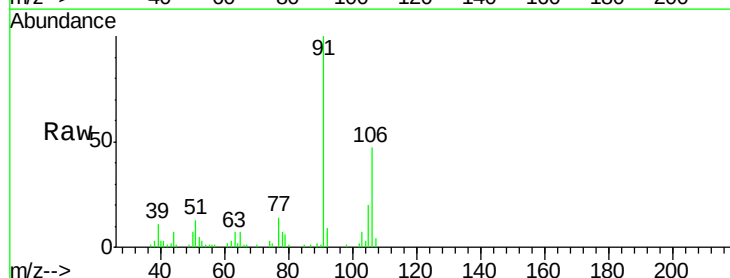
Acq: 31 May 2018 13:38

Tgt Ion: 106 Resp: 4930

Ion Ratio Lower Upper

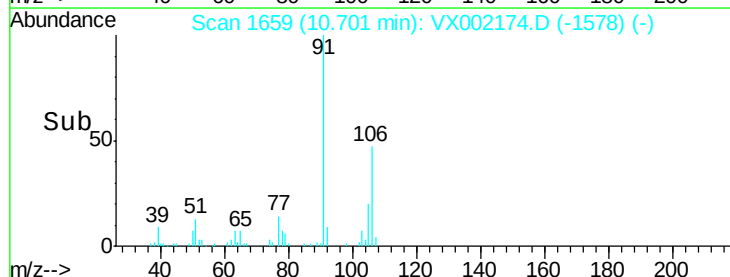
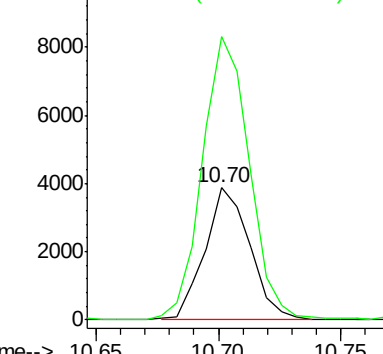
106 100

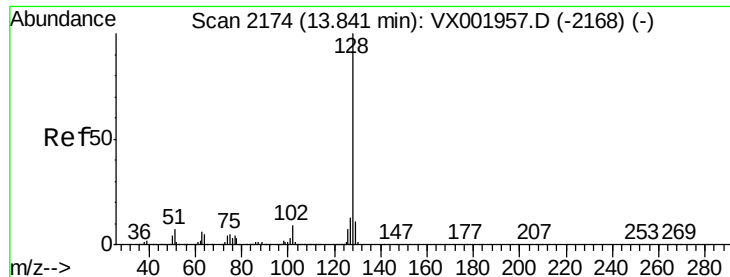
91 225.2 109.1 327.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#91

Naphthalene

Concen: 1.062 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VX002174.D

Acq: 31 May 2018 13:38

Instrument :

MSVOA_X

ClientSampleId :

W-1

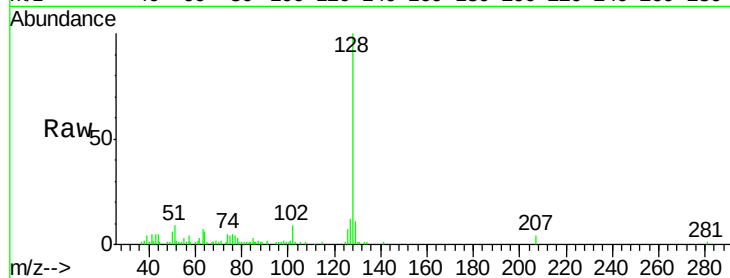
Tot Ion:128 Resp: 14217

Ion Ratio Lower Upper

128 100

127 14.4 10.3 15.5

129 11.7 8.9 13.3



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

