

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063018\
 Data File : VX003104.D
 Acq On : 01 Jul 2018 04:14
 Operator : JC/MD
 Sample : J3800-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-10

Quant Time: Jul 02 04:57:32 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	281907	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	395692	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	370329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	211336	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	183266	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
35) Dibromofluoromethane	5.51	113	152706	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
50) Toluene-d8	8.72	98	552826	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
62) 4-Bromofluorobenzene	11.14	95	196192	44.46	ug/l	0.00
Spiked Amount			Recovery	=	88.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	136	Below Cal	#	43
3) Chloromethane	1.32	50	776	Below Cal	#	91
5) Bromomethane	1.61	94	172	Below Cal	#	3
6) Chloroethane	1.70	64	555	Below Cal	#	43
10) Methyl Iodide	2.52	142	1865	6.74	ug/l	95
11) Tert butyl alcohol	3.07	59	915	1.18	ug/l	83
13) Acrolein	2.29	56	175	4.63	ug/l	1
16) Acetone	2.45	43	6760	4.19	ug/l	98
17) Carbon Disulfide	2.57	76	1690	0.23	ug/l	87
19) Methyl tert-butyl Ether	3.21	73	4649	0.47	ug/l	85
20) Methylene Chloride	2.86	84	736	0.23	ug/l	70
25) 2-Butanone	4.71	43	1063	0.44	ug/l	80
36) 1,1-Dichloropropene	5.67	75	18397	4.24	ug/l	51
38) Carbon Tetrachloride	5.67	117	25176	5.29	ug/l	16
68) m/p-Xylenes	10.36	106	2052	0.34	ug/l	87
76) 1,2,3-Trichloropropane	11.14	75	99987	26.12	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	99987	74.05	ug/l	7

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampleId :

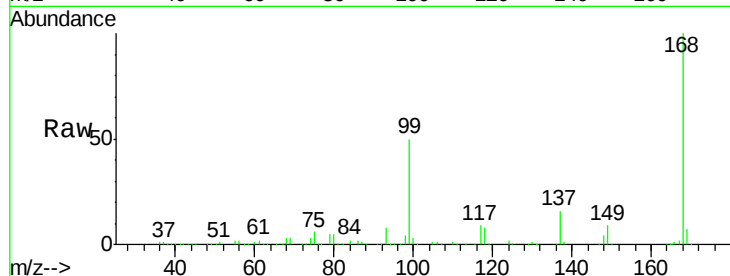
MW-10

Tot Ion:168 Resp: 281907

Ion Ratio Lower Upper

168 100

99 49.9 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

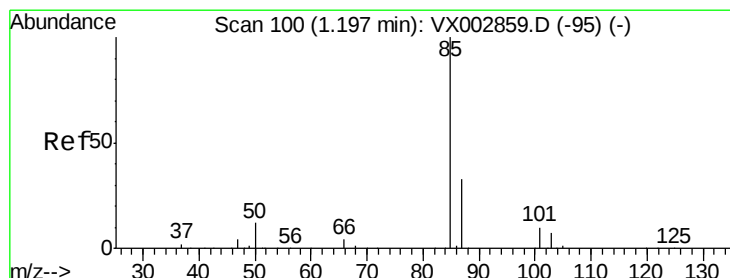
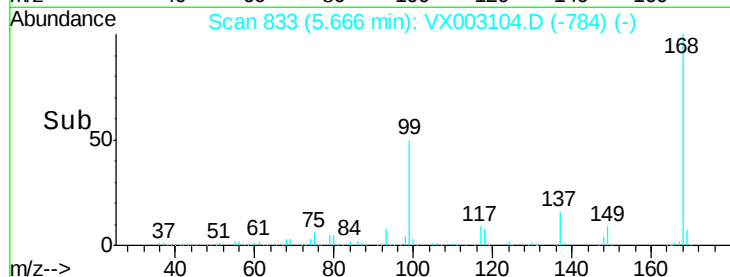
40000

20000

0

Time-->

5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003104.D

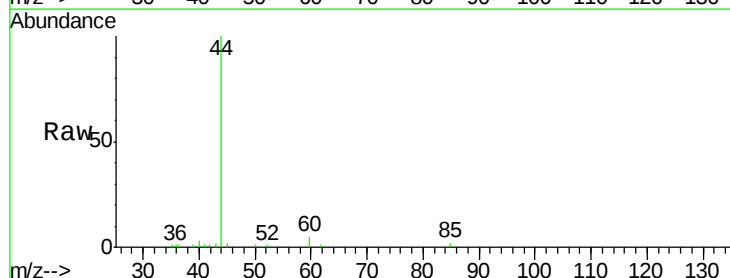
Acq: 01 Jul 2018 04:14

Tgt Ion: 85 Resp: 136

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

150

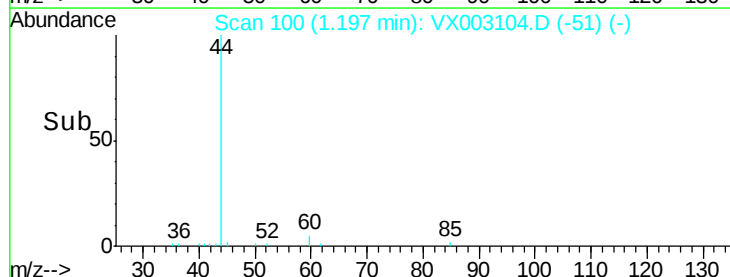
100

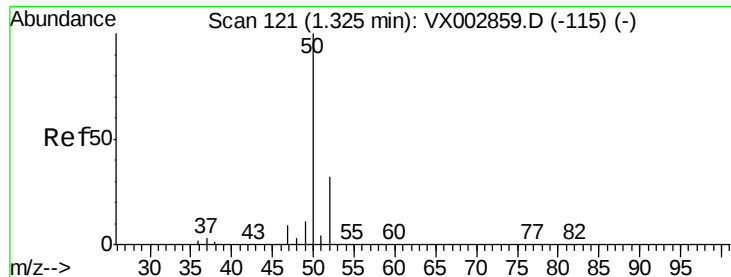
50

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: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampled :

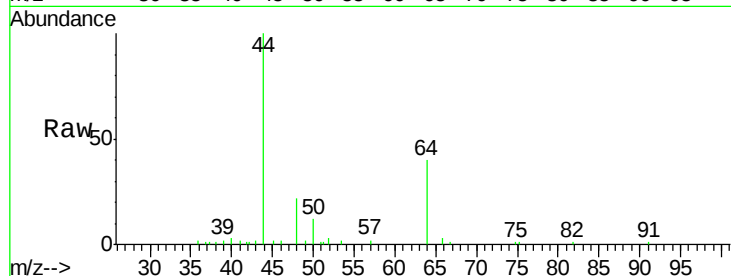
MW-10

Tot Ion: 50 Resp: 776

Ion Ratio Lower Upper

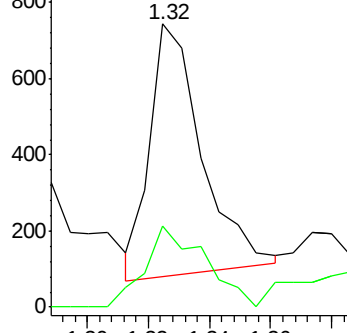
50 100

52 27.0 25.7 38.5

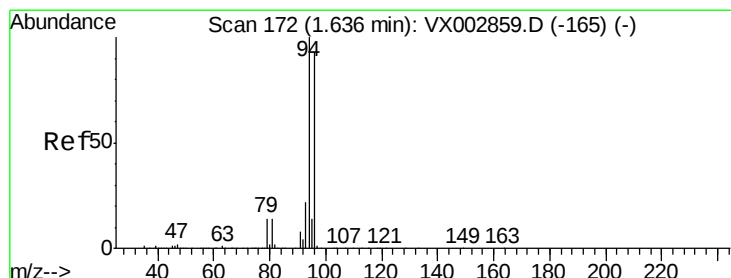
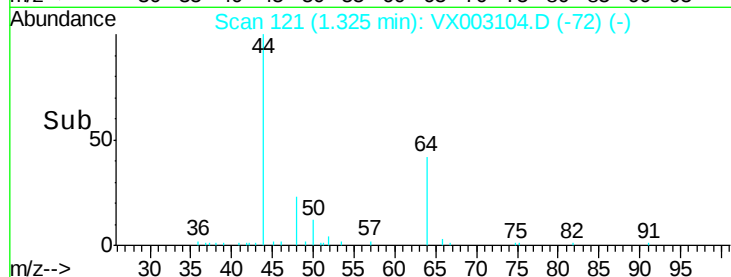


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX003104.D

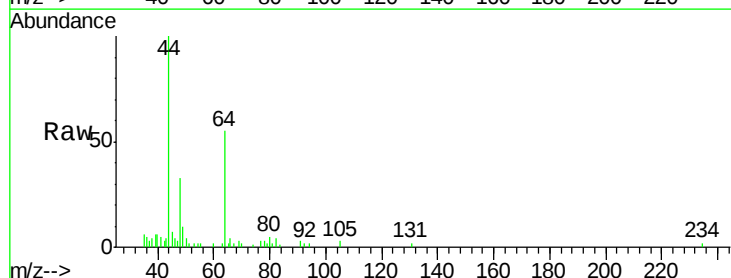
Acq: 01 Jul 2018 04:14

Tgt Ion: 94 Resp: 172

Ion Ratio Lower Upper

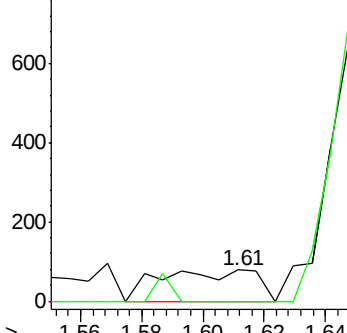
94 100

96 0.0 74.9 112.3#

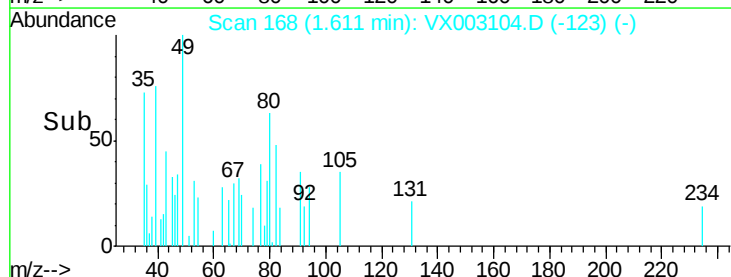


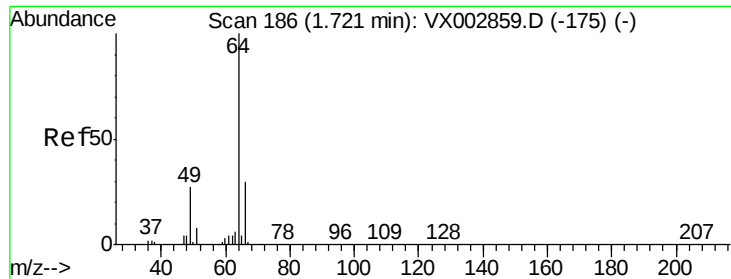
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampleId :

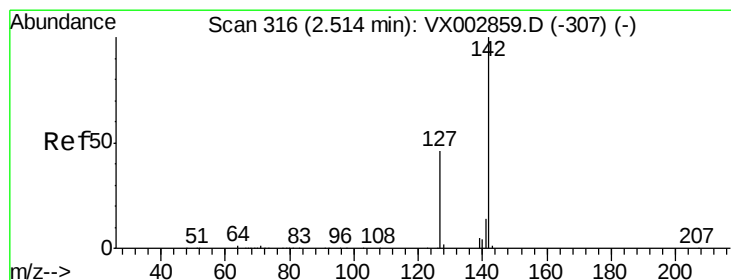
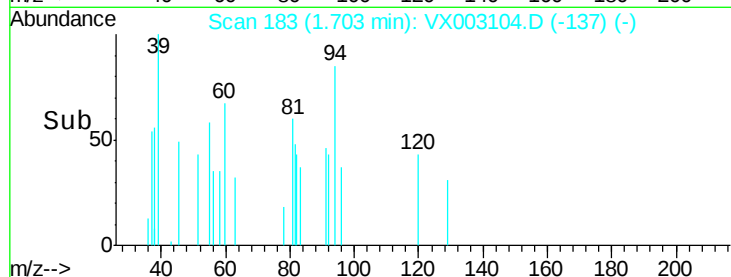
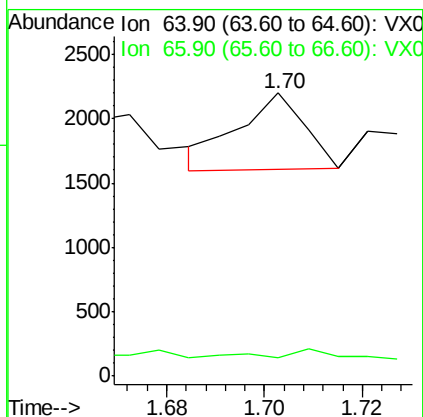
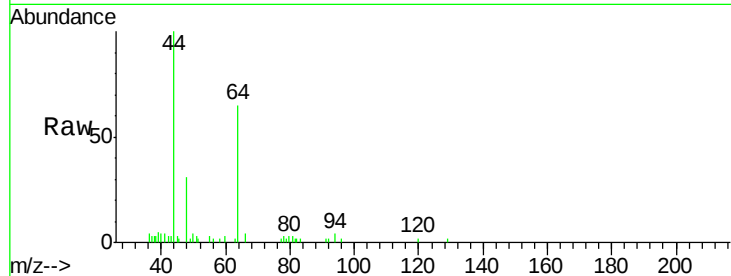
MW-10

Tot Ion: 64 Resp: 555

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#10

Methyl Iodide

Concen: 6.74 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

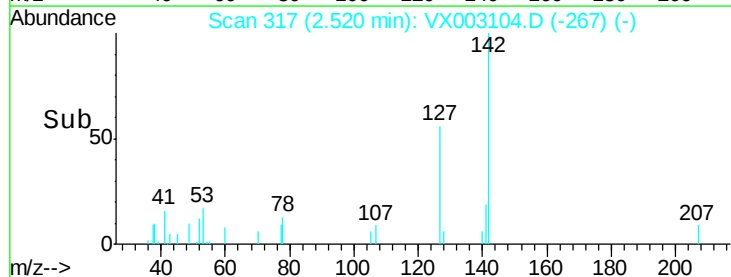
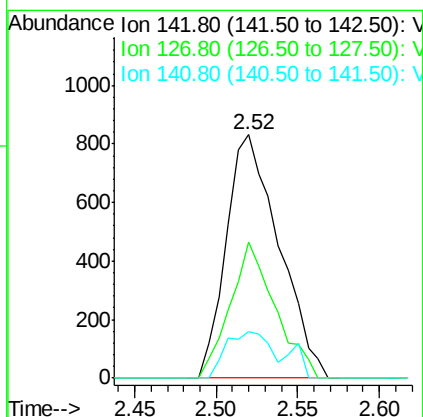
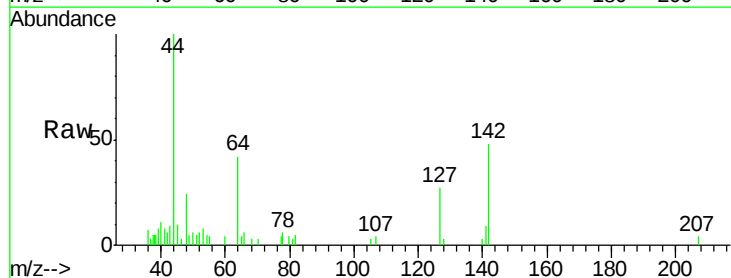
Tgt Ion: 142 Resp: 1865

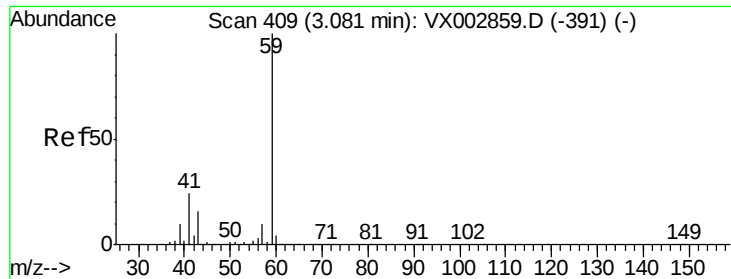
Ion Ratio Lower Upper

142 100

127 47.6 36.6 55.0

141 19.9 11.3 16.9#

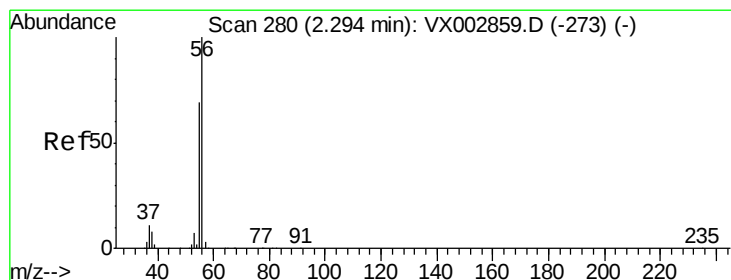
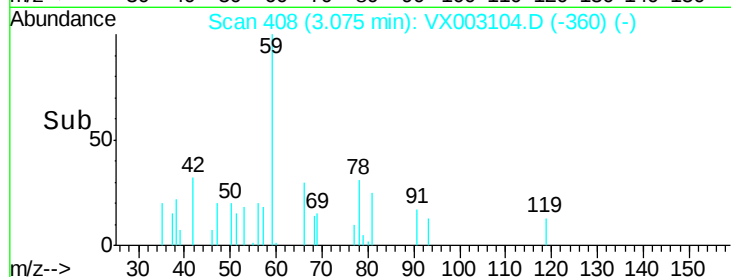
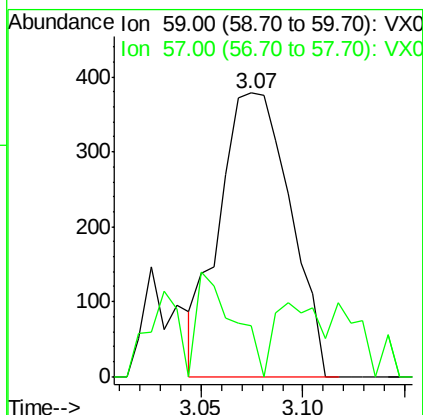
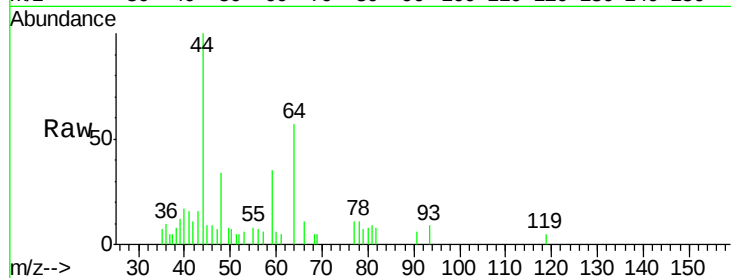




#11
Tert butyl alcohol
Concen: 1.18 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003104.D
Acq: 01 Jul 2018 04:14

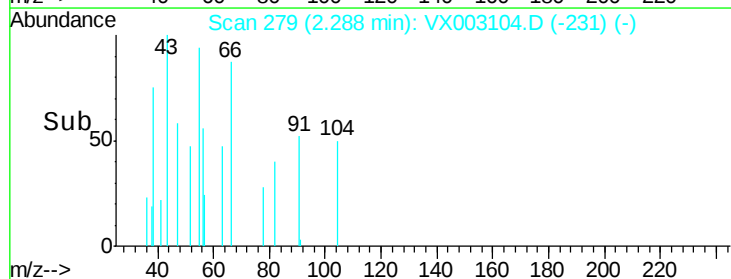
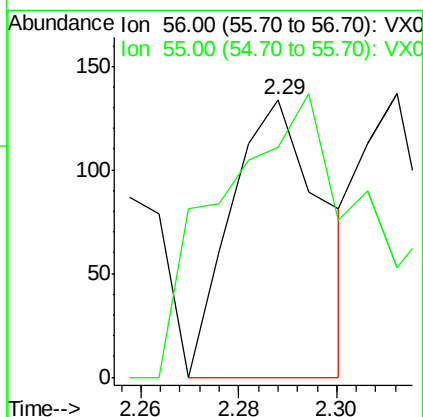
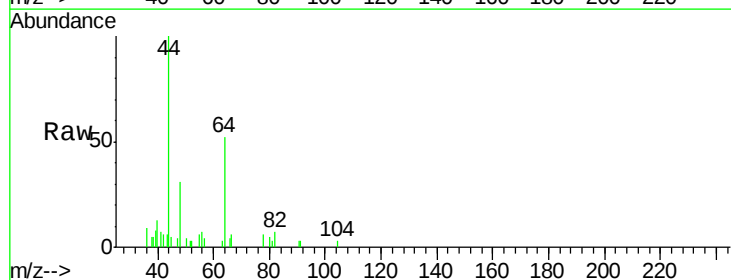
Instrument :
MSVOA_X
ClientSampled :
MW-10

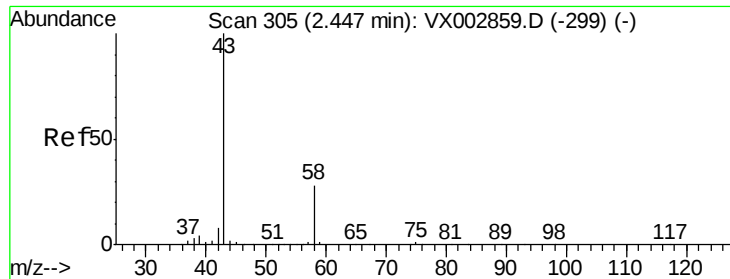
Tot Ion: 59 Resp: 915
Ion Ratio Lower Upper
59 100
57 16.4 8.2 12.2#



#13
Acrolein
Concen: 4.63 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX003104.D
Acq: 01 Jul 2018 04:14

Tgt Ion: 56 Resp: 175
Ion Ratio Lower Upper
56 100
55 154.3 57.0 85.4#





#16

Acetone

Concen: 4.19 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampleId :

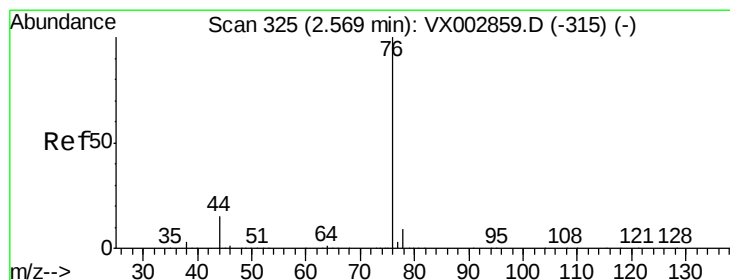
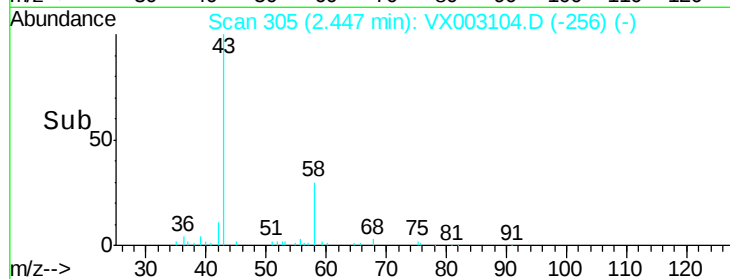
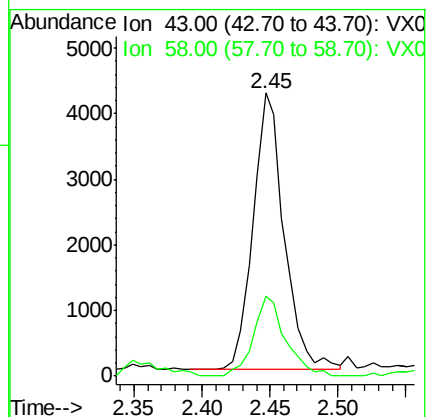
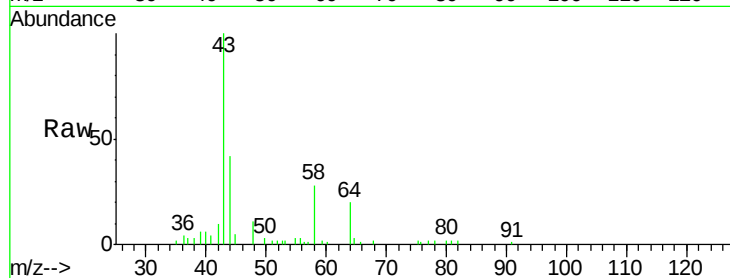
MW-10

Tot Ion: 43 Resp: 6760

Ion Ratio Lower Upper

43 100

58 28.8 22.1 33.1



#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003104.D

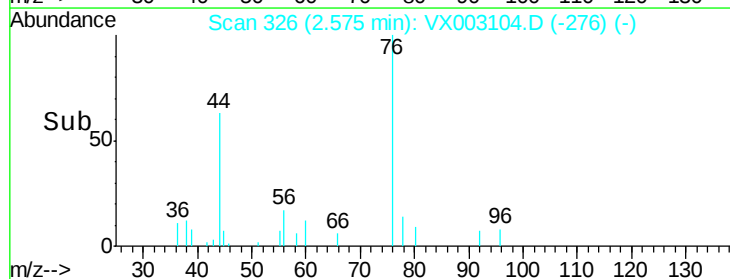
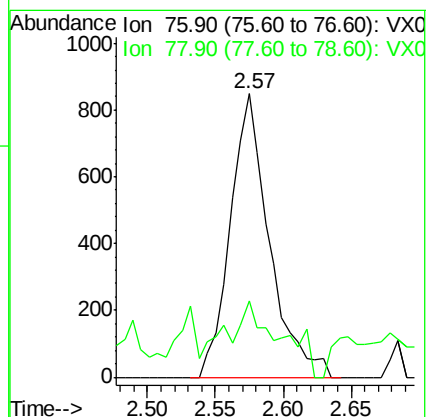
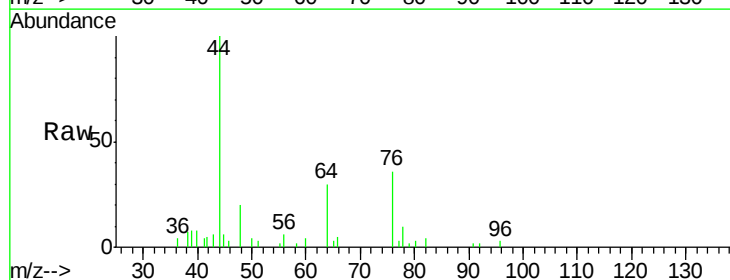
Acq: 01 Jul 2018 04:14

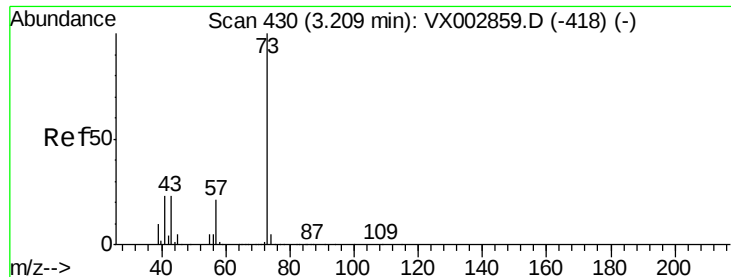
Tgt Ion: 76 Resp: 1690

Ion Ratio Lower Upper

76 100

78 13.1 6.9 10.3#



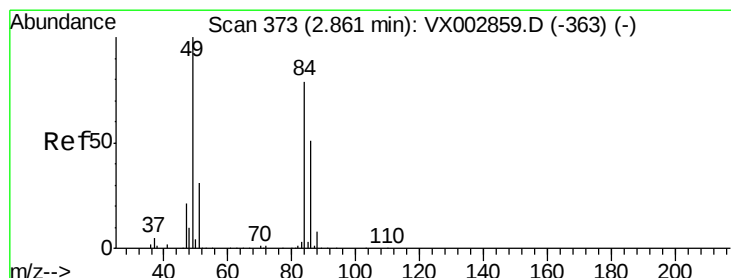
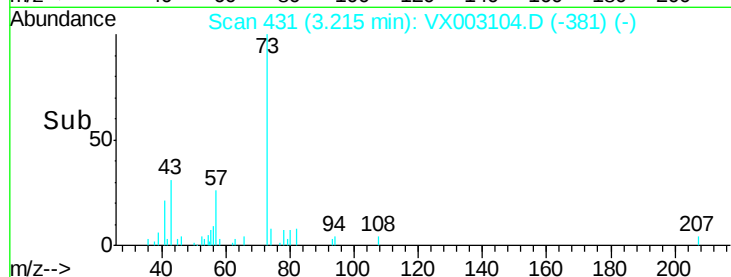
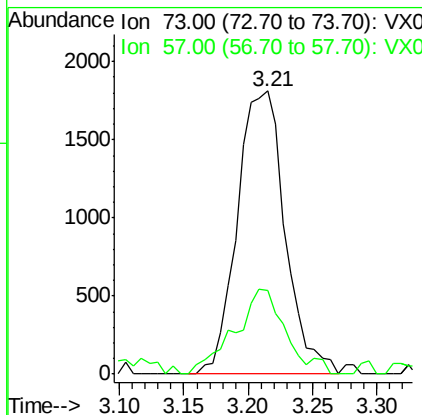
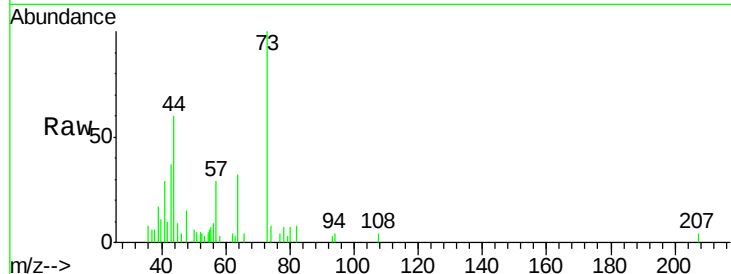


#19

Methyl tert-butyl Ether
 Concen: 0.47 ug/l
 RT: 3.21 min Scan# 431
 Delta R.T. 0.01 min
 Lab File: VX003104.D
 Acq: 01 Jul 2018 04:14

Instrument :
 MSVOA_X
 ClientSampled :
 MW-10

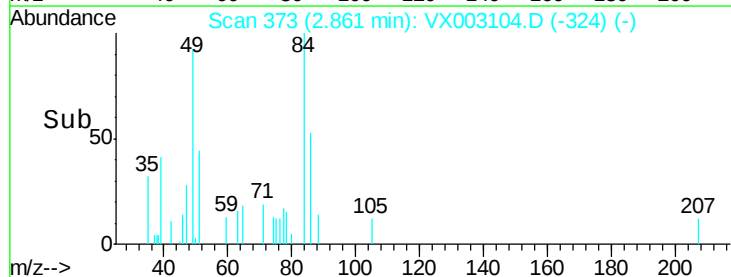
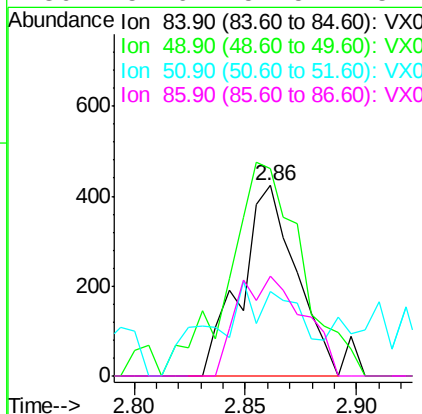
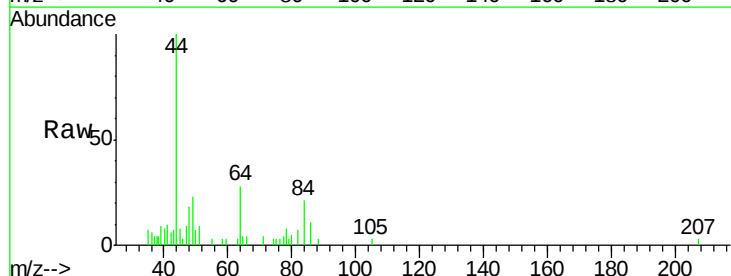
Tot Ion: 73 Resp: 4649
 Ion Ratio Lower Upper
 73 100
 57 29.5 17.7 26.5#

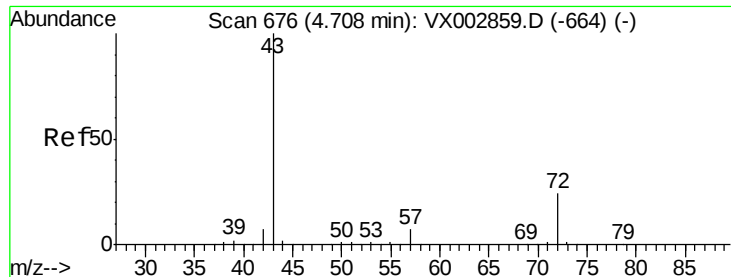


#20

Methylene Chloride
 Concen: 0.23 ug/l
 RT: 2.86 min Scan# 373
 Delta R.T. -0.00 min
 Lab File: VX003104.D
 Acq: 01 Jul 2018 04:14

Tgt Ion: 84 Resp: 736
 Ion Ratio Lower Upper
 84 100
 49 93.4 107.8 161.6#
 51 18.6 32.8 49.2#
 86 52.6 52.5 78.7





#25

2-Butanone

Concen: 0.44 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.00 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampleId :

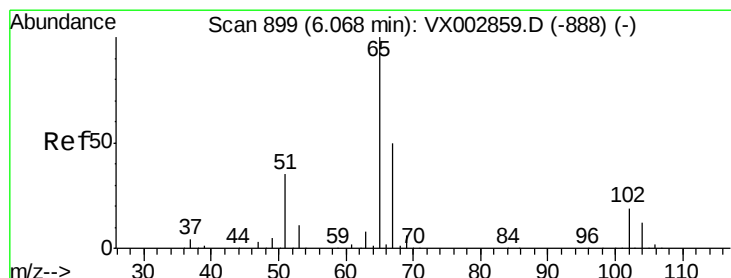
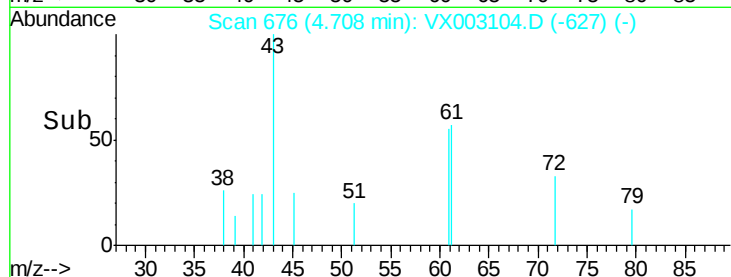
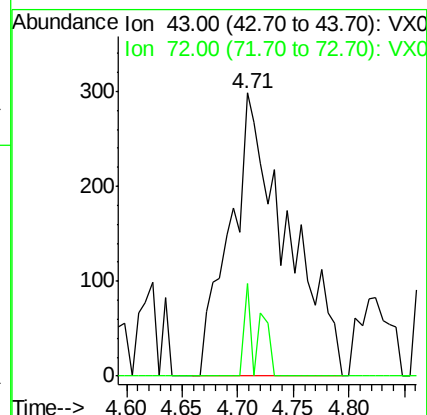
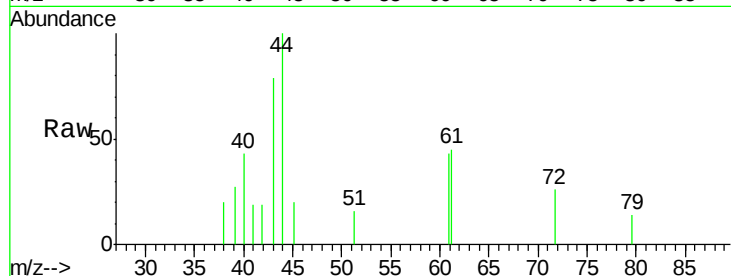
MW-10

Tot Ion: 43 Resp: 1063

Ion Ratio Lower Upper

43 100

72 32.9 18.5 27.7#



#33

1,2-Dichloroethane-d4

Concen: 47.03 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003104.D

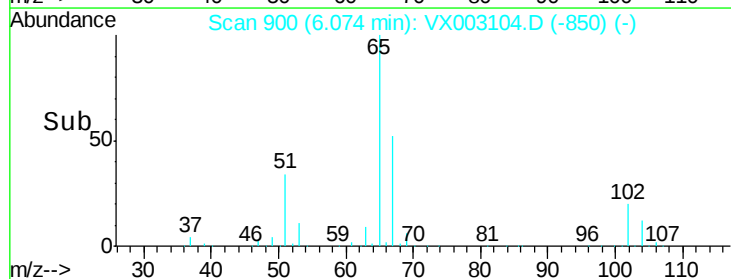
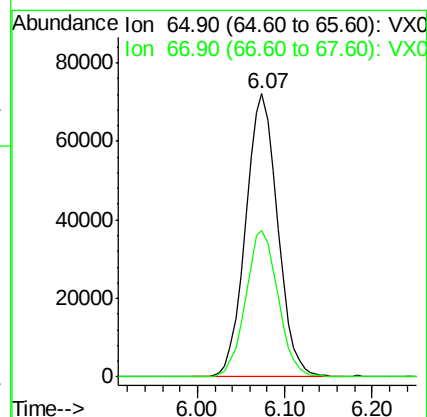
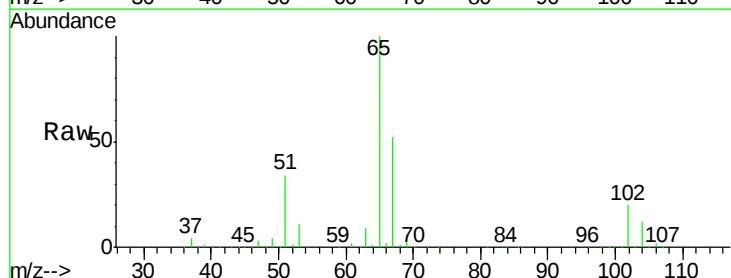
Acq: 01 Jul 2018 04:14

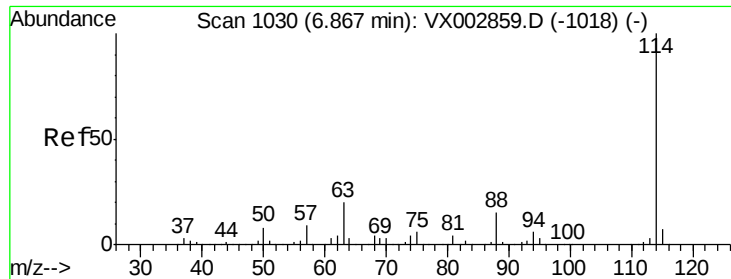
Tgt Ion: 65 Resp: 183266

Ion Ratio Lower Upper

65 100

67 52.4 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: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampleId :

MW-10

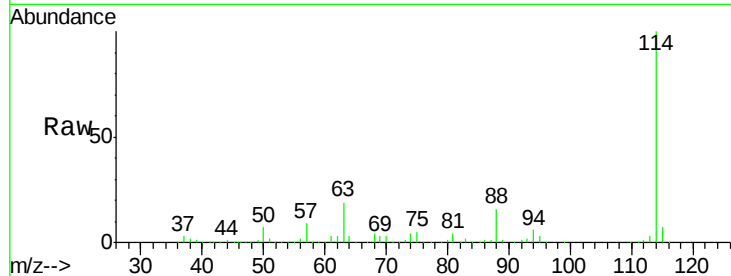
Tot Ion:114 Resp: 395692

Ion Ratio Lower Upper

114 100

63 19.3 0.0 41.4

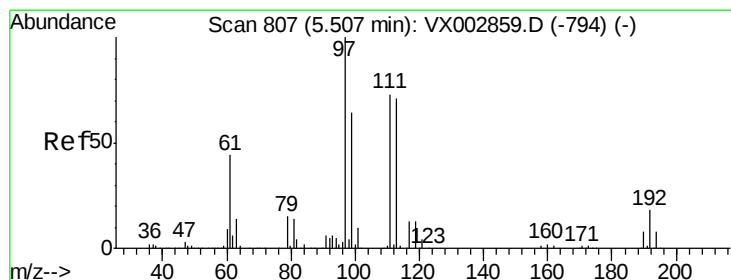
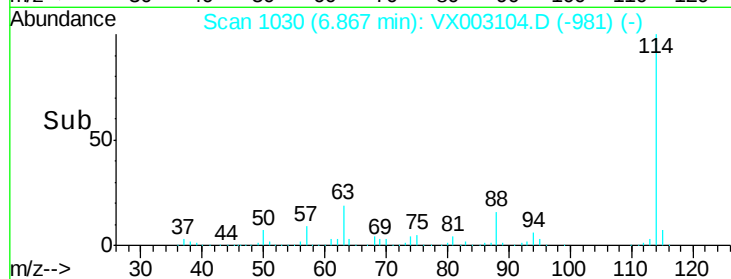
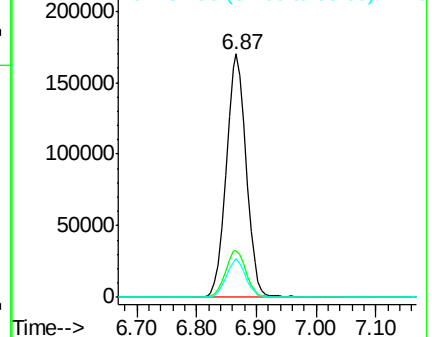
88 15.7 0.0 30.0



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: 48.73 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

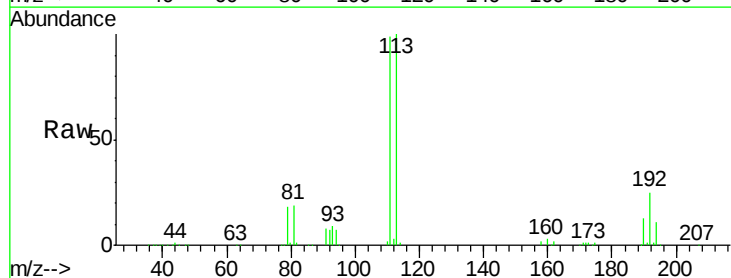
Tgt Ion:113 Resp: 152706

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

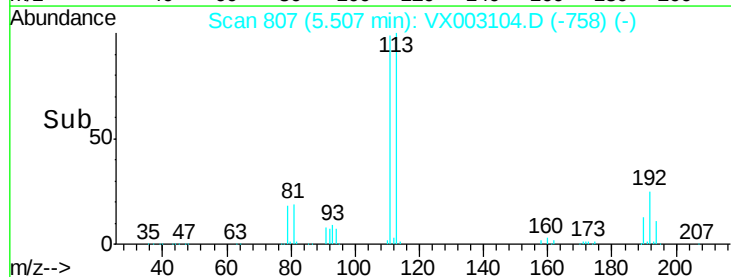
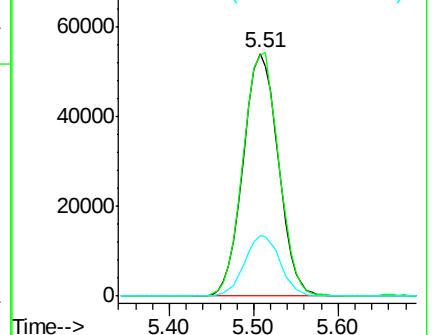
192 25.0 19.1 28.7

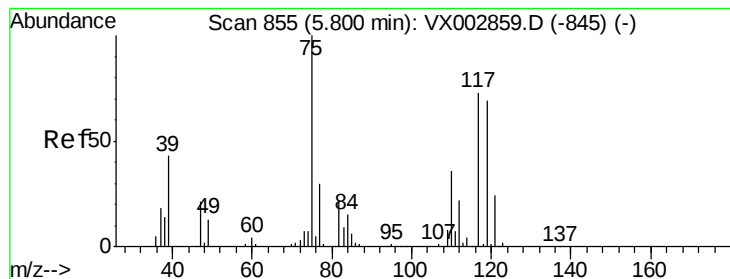


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.24 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampled :

MW-10

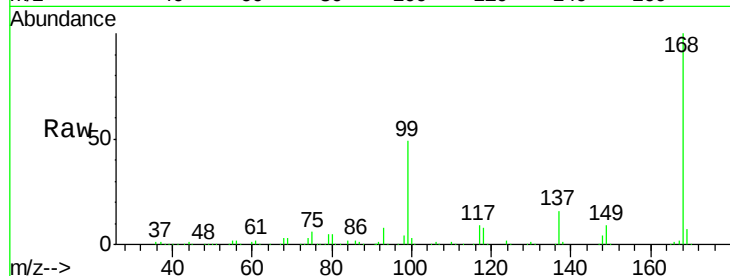
Tot Ion: 75 Resp: 18397

Ion Ratio Lower Upper

75 100

110 10.9 18.1 54.4#

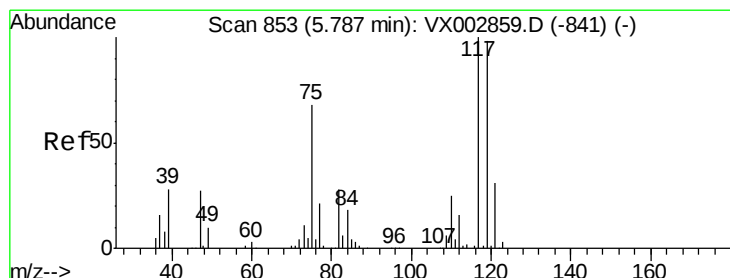
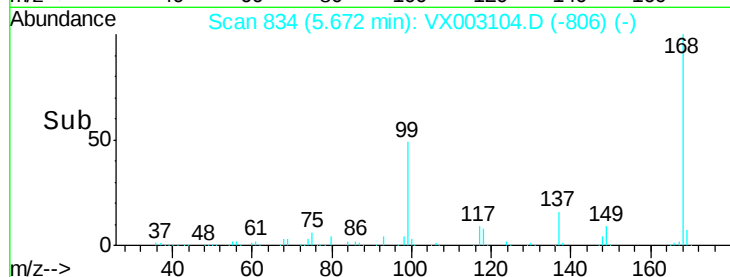
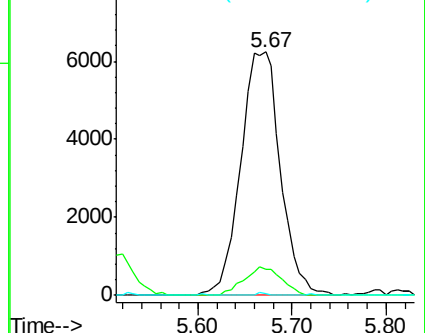
77 0.3 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.29 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

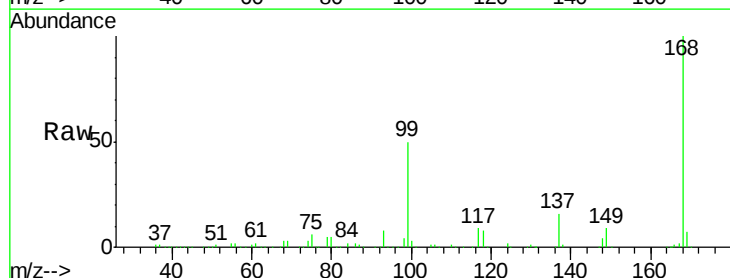
Tgt Ion: 117 Resp: 25176

Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.0#

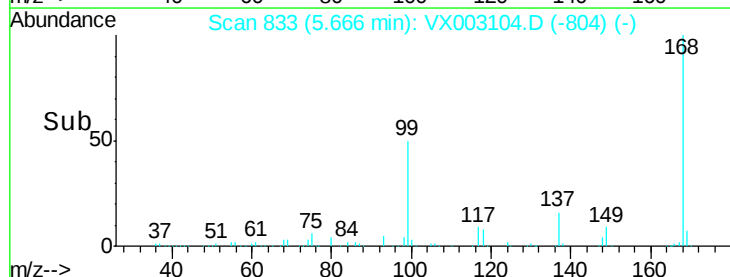
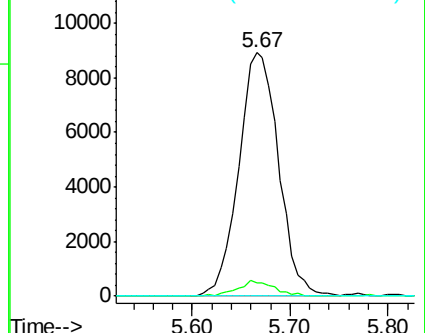
121 0.0 24.4 36.6#

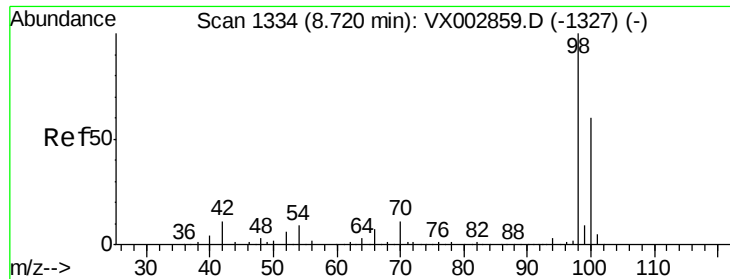


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 48.31 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampleId :

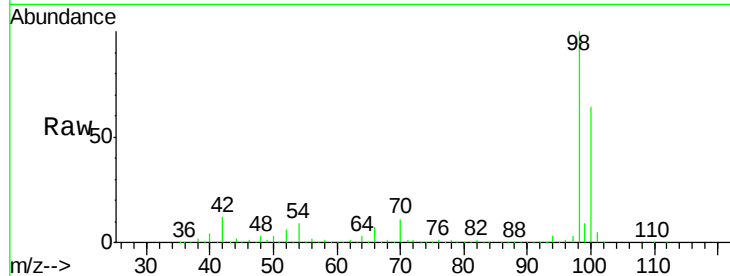
MW-10

Tot Ion: 98 Resp: 552826

Ion Ratio Lower Upper

98 100

100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

400000

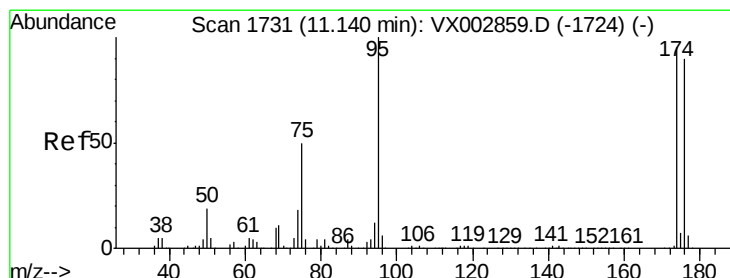
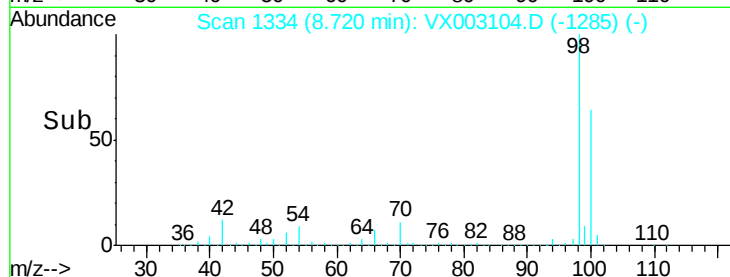
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 44.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

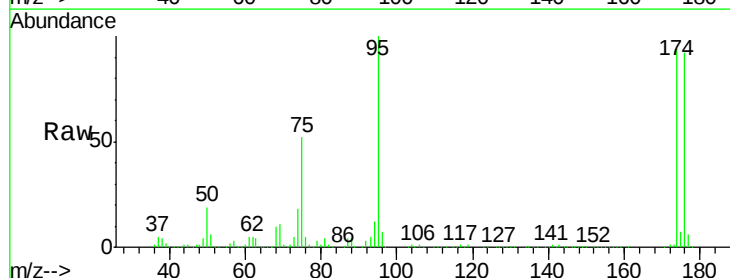
Tgt Ion: 95 Resp: 196192

Ion Ratio Lower Upper

95 100

174 98.2 0.0 187.4

176 94.4 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

200000

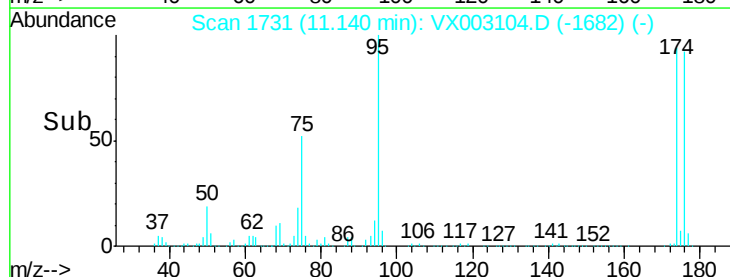
150000

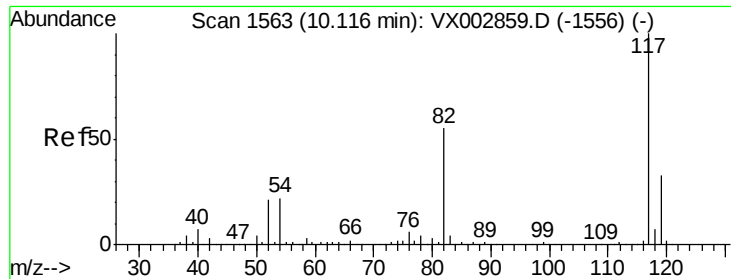
100000

50000

0

Time--> 11.10 11.20

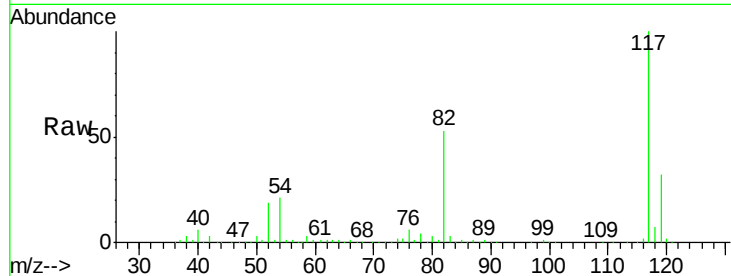




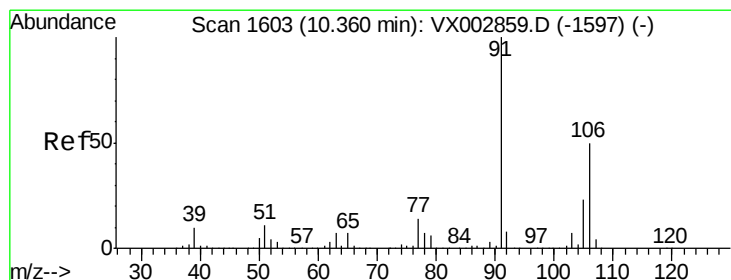
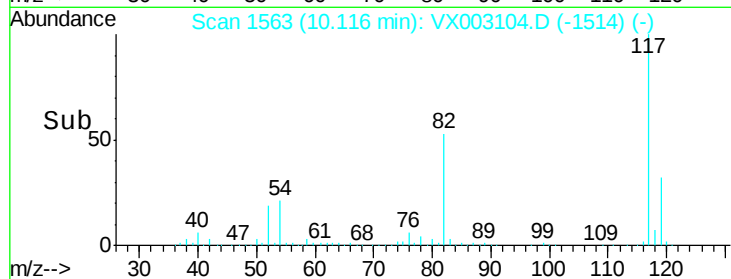
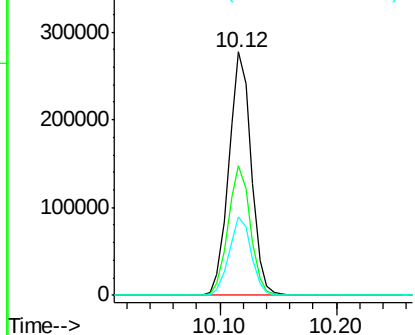
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003104.D
Acq: 01 Jul 2018 04:14

Instrument :
MSVOA_X
ClientSampled :
MW-10

Tot Ion:117 Resp: 370329
Ion Ratio Lower Upper
117 100
82 53.0 45.0 67.4
119 32.0 25.8 38.6

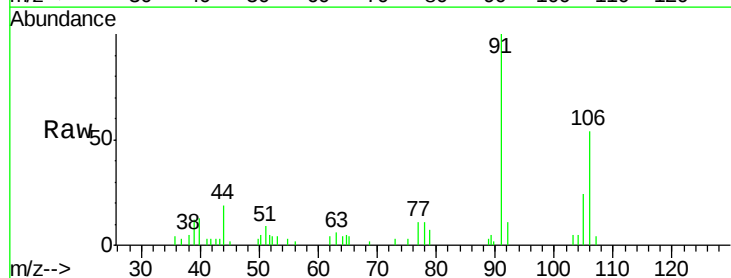


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

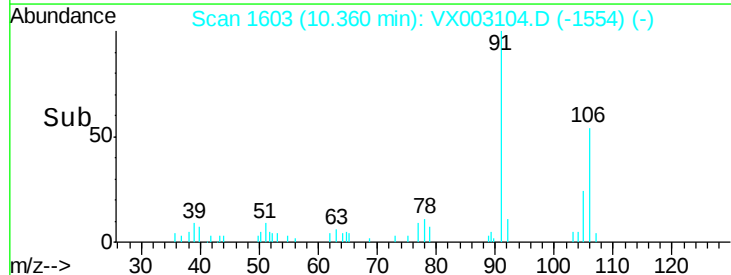
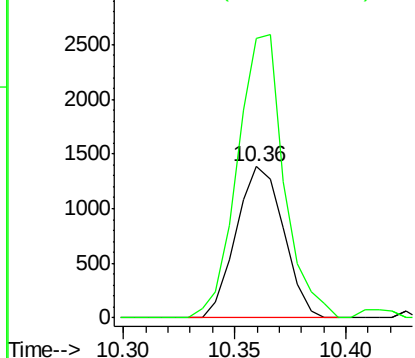


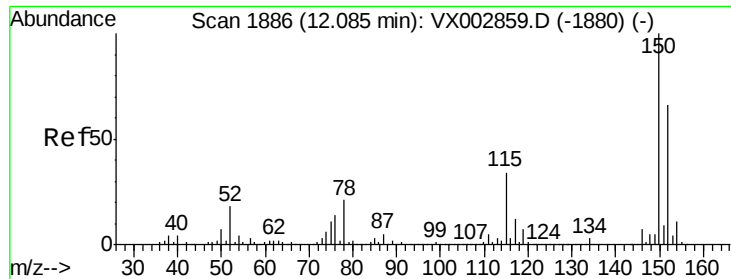
#68
m/p-Xylenes
Concen: 0.34 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX003104.D
Acq: 01 Jul 2018 04:14

Tgt Ion:106 Resp: 2052
Ion Ratio Lower Upper
106 100
91 183.9 163.4 245.2



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampleId :

MW-10

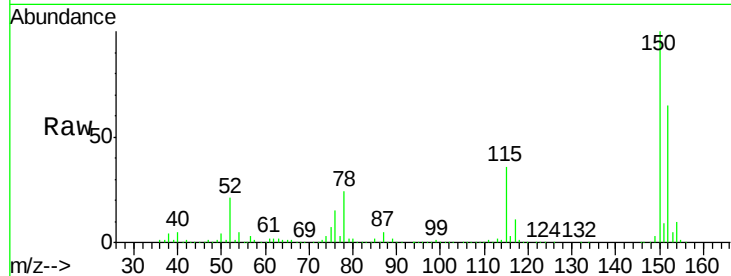
Tot Ion:152 Resp: 211336

Ion Ratio Lower Upper

152 100

115 53.3 40.1 120.2

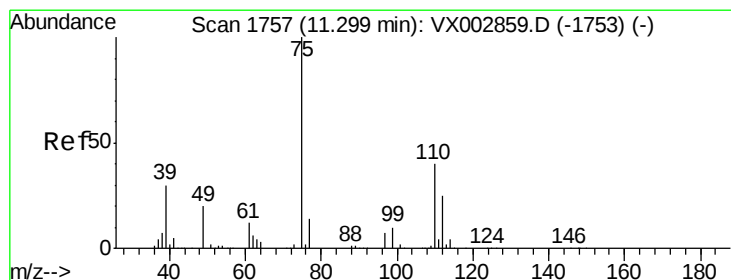
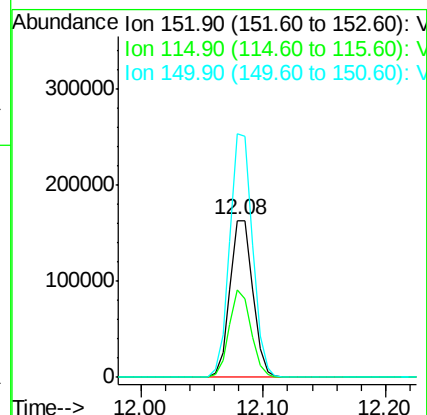
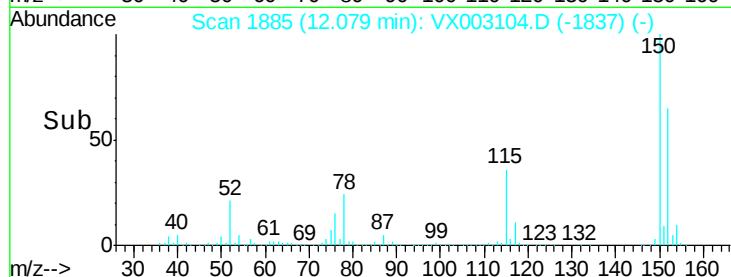
150 154.3 0.0 347.2



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: 26.12 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003104.D

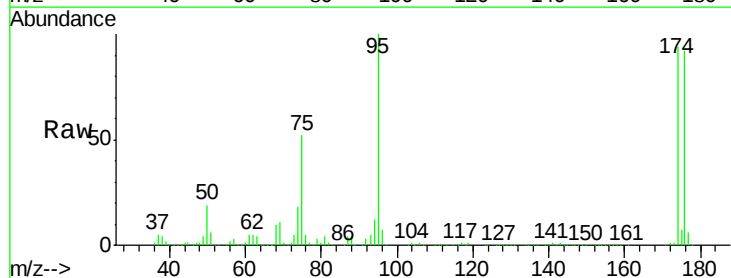
Acq: 01 Jul 2018 04:14

Tgt Ion: 75 Resp: 99987

Ion Ratio Lower Upper

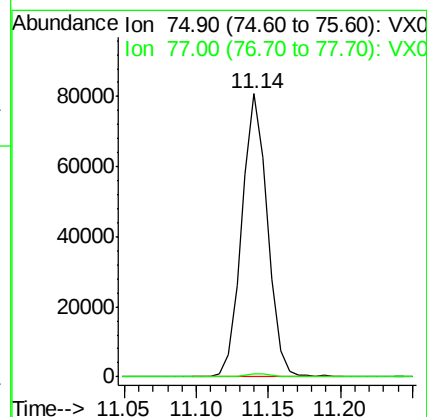
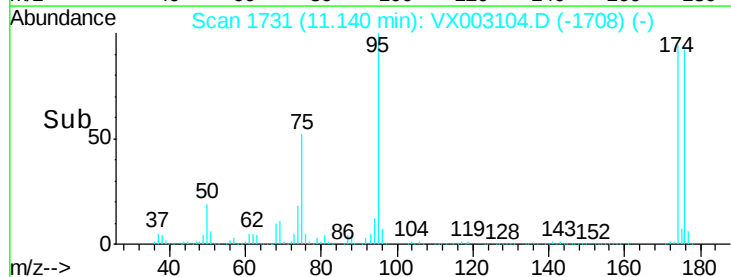
75 100

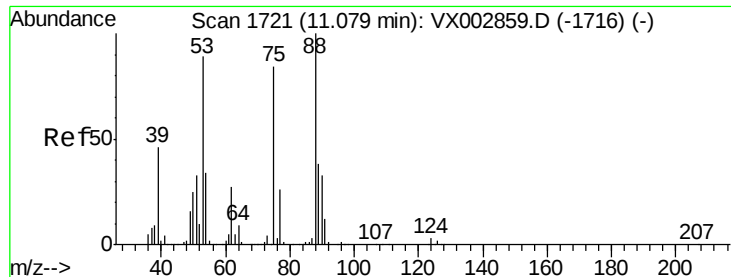
77 1.2 22.8 68.3#



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: 74.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003104.D

Acq: 01 Jul 2018 04:14

Instrument :

MSVOA_X

ClientSampleId :

MW-10

Tot Ion: 75 Resp: 99987

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

