

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070318\
 Data File : VX003155.D
 Acq On : 03 Jul 2018 18:06
 Operator : JC/MD
 Sample : J3754-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 04 03:17:26 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	269273	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	371589	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	343822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	193743	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	171145	45.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.96%	
35) Dibromofluoromethane	5.51	113	142358	48.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.76%	
50) Toluene-d8	8.72	98	514587	47.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.78%	
62) 4-Bromofluorobenzene	11.14	95	182740	44.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.20%	

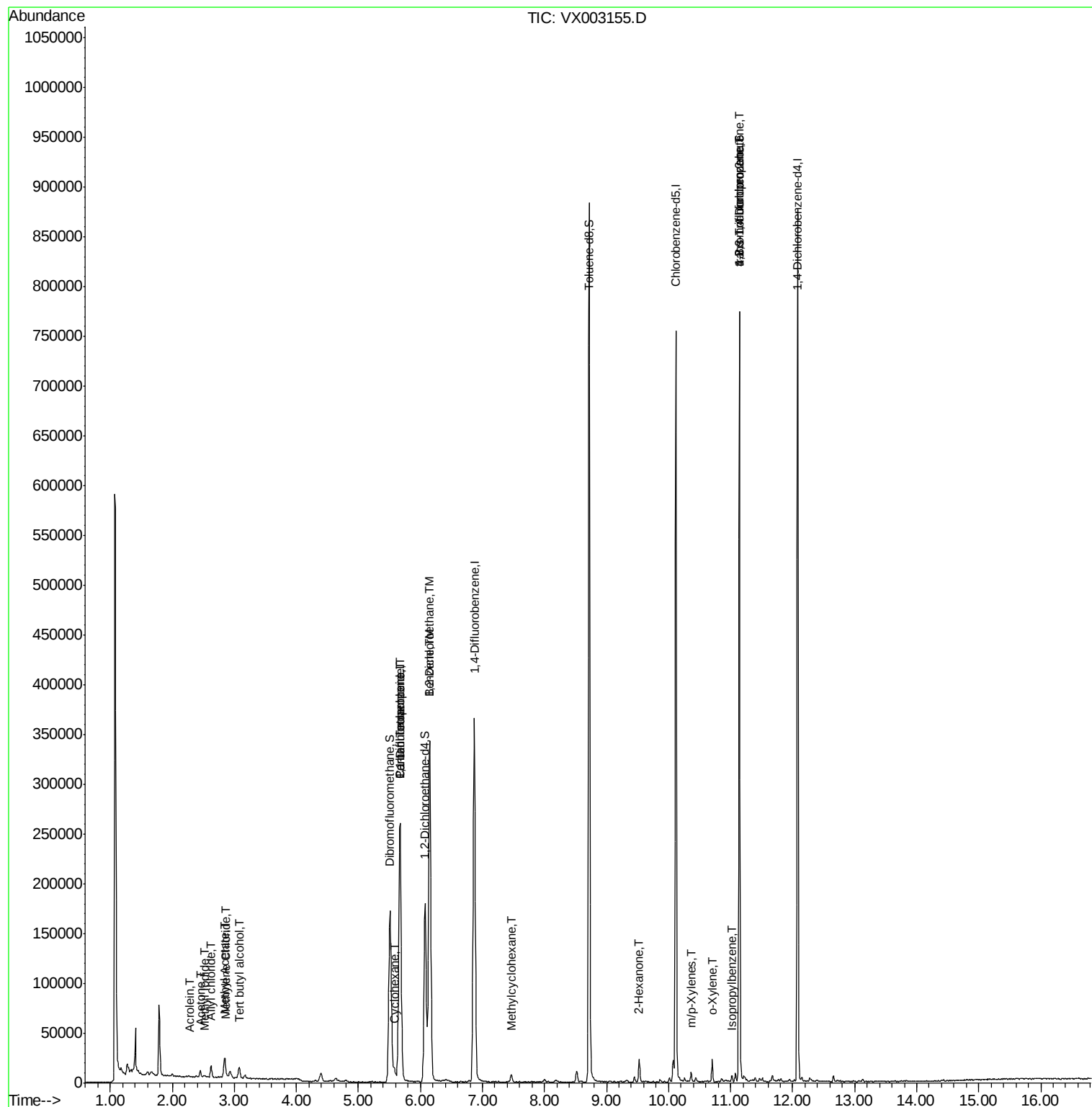
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	166	Below Cal	#	43
3) Chloromethane	1.33	50	1038	Below Cal		89
5) Bromomethane	1.65	94	2257	Below Cal		97
6) Chloroethane	1.72	64	532	Below Cal		89
10) Methyl Iodide	2.52	142	2389	6.92	ug/l #	87
11) Tert butyl alcohol	3.07	59	13626	18.38	ug/l #	92
13) Acrolein	2.29	56	116	4.51	ug/l #	14
14) Allyl chloride	2.63	41	1750	0.33	ug/l #	76
16) Acetone	2.45	43	6996	4.54	ug/l	95
18) Methyl Acetate	2.84	43	13689	3.18	ug/l #	55
20) Methylene Chloride	2.86	84	613	0.20	ug/l #	66
31) Cyclohexane	5.58	56	7636	1.64	ug/l	95
36) 1,1-Dichloropropene	5.67	75	17251	4.23	ug/l #	51
38) Carbon Tetrachloride	5.67	117	23719	5.30	ug/l #	15
39) Methylcyclohexane	7.46	83	2825	0.60	ug/l	94
40) Benzene	6.15	78	405639	34.26	ug/l	99
42) 1,2-Dichloroethane	6.14	62	3829	0.80	ug/l #	77
59) 2-Hexanone	9.53	43	1829	0.52	ug/l	89
68) m/p-Xylenes	10.37	106	2217	0.40	ug/l	95
69) o-Xylene	10.70	106	4803	0.89	ug/l	95
73) Isopropylbenzene	11.02	105	2667	0.20	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	92412	26.33	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	92412	74.63	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

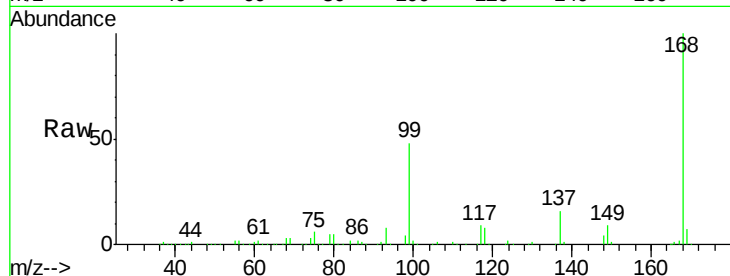
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 269273

Ion Ratio Lower Upper

168 100

99 47.8 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

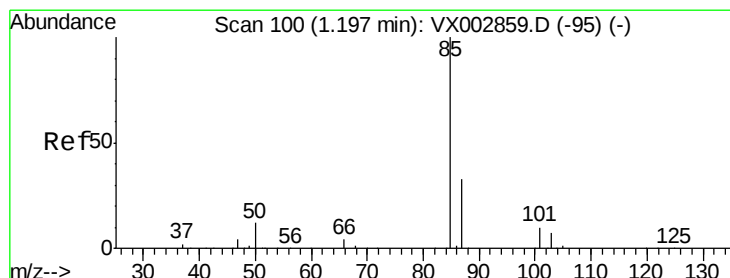
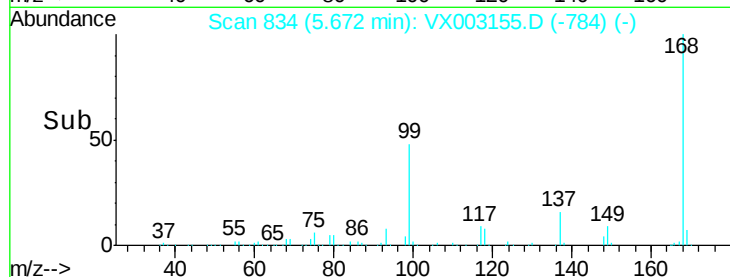
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003155.D

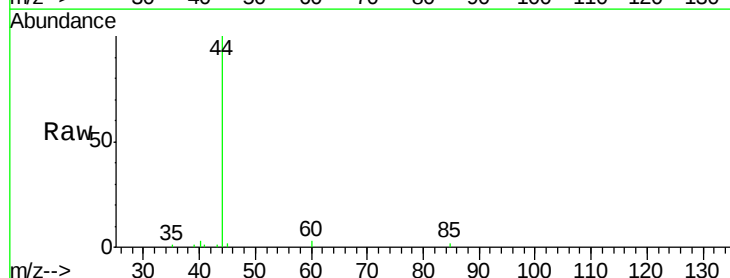
Acq: 03 Jul 2018 18:06

Tgt Ion: 85 Resp: 166

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

250

200

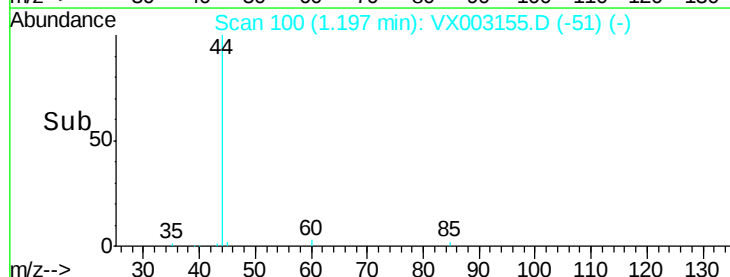
150

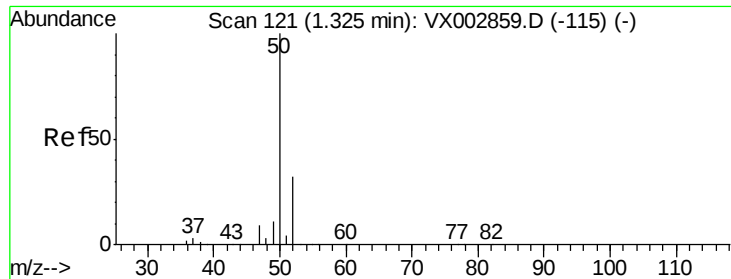
100

50

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

Instrument :

MSVOA_X

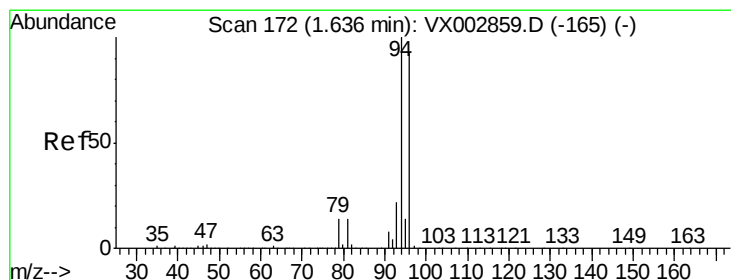
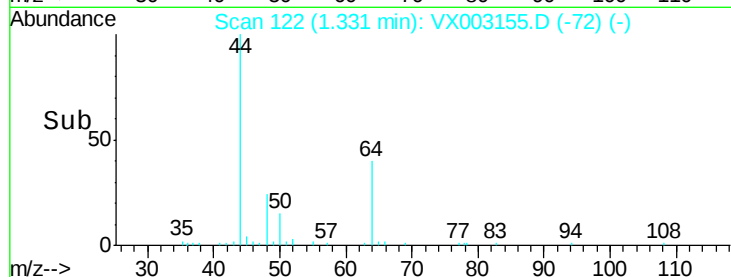
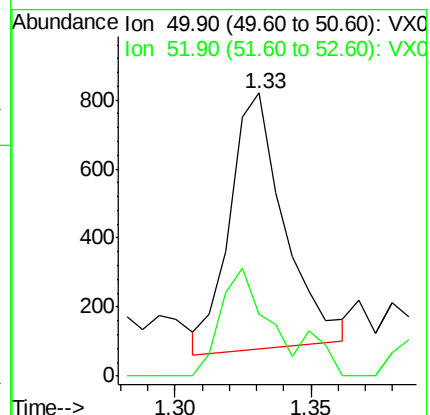
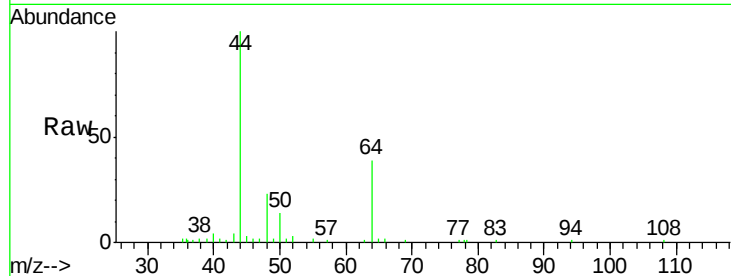
ClientSampleId :

Tot Ion: 50 Resp: 1038

Ion Ratio Lower Upper

50 100

52 25.7 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003155.D

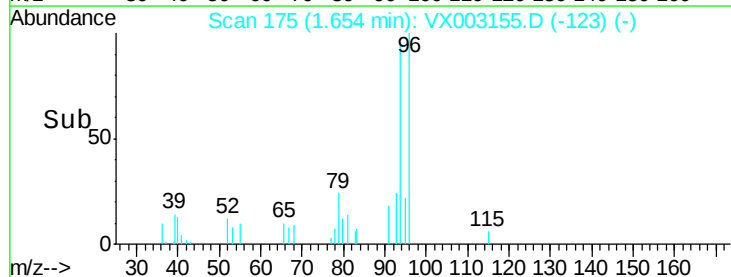
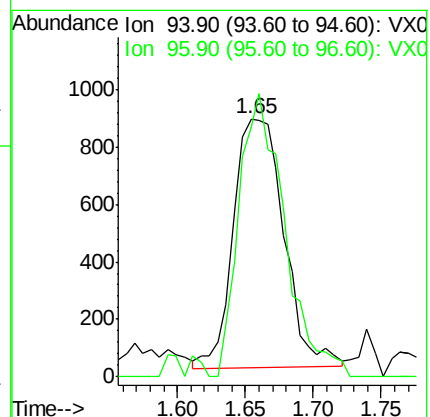
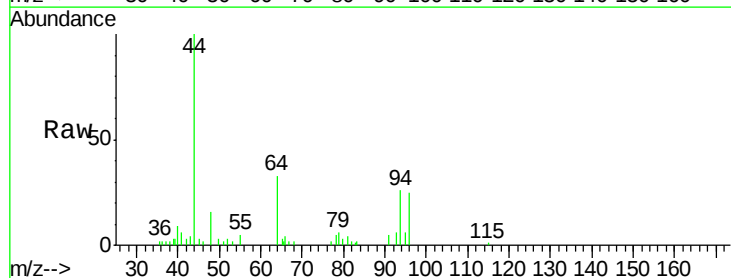
Acq: 03 Jul 2018 18:06

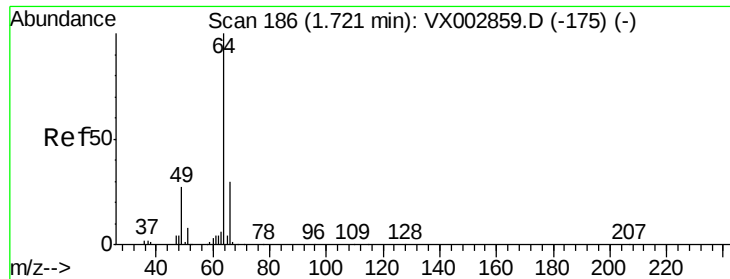
Tgt Ion: 94 Resp: 2257

Ion Ratio Lower Upper

94 100

96 96.3 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

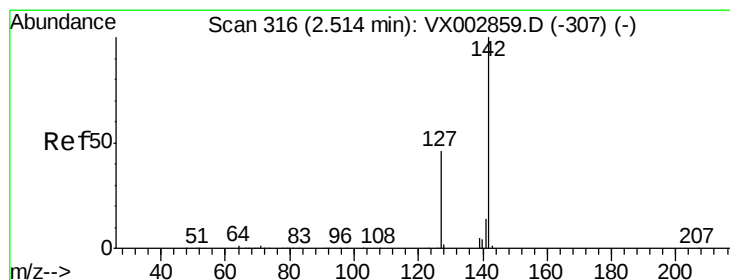
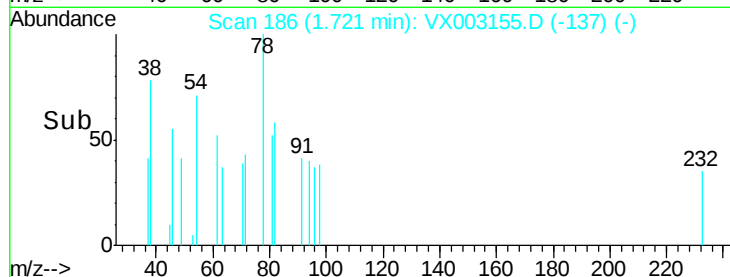
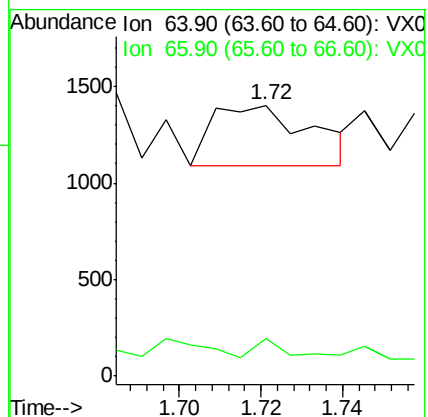
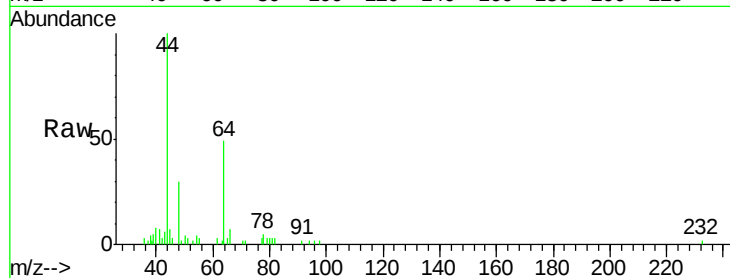
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 64 Resp: 532

Ion Ratio Lower Upper

64 100

66 25.7 25.5 38.3



#10

Methyl Iodide

Concen: 6.92 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

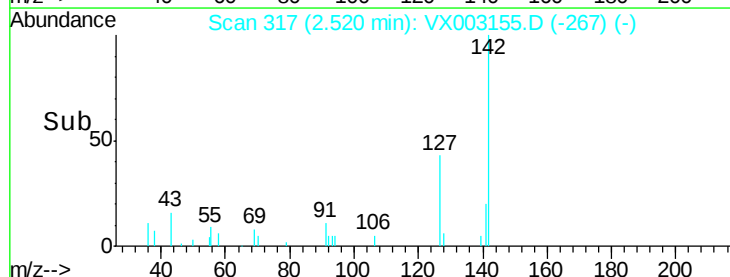
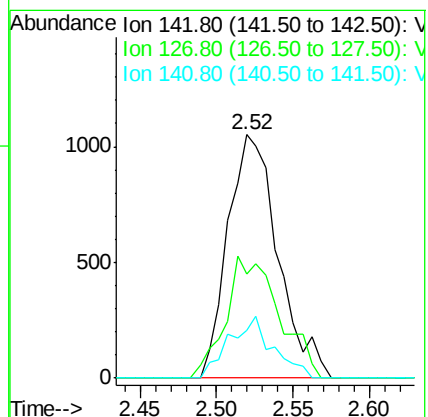
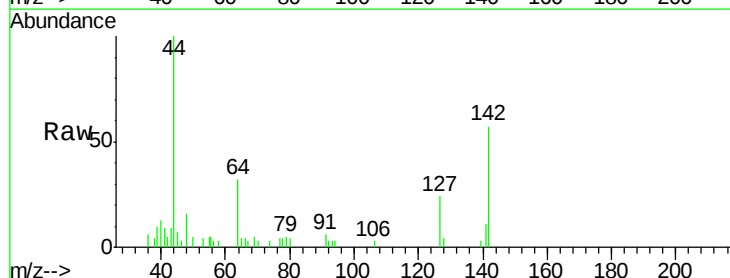
Tgt Ion:142 Resp: 2389

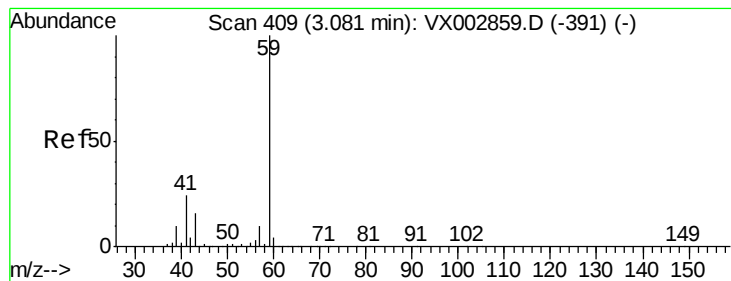
Ion Ratio Lower Upper

142 100

127 53.2 36.6 55.0

141 22.0 11.3 16.9#



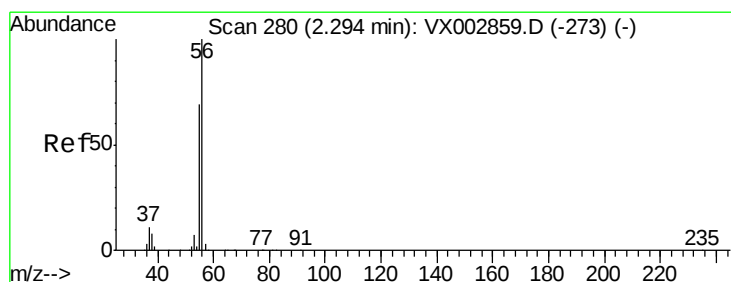
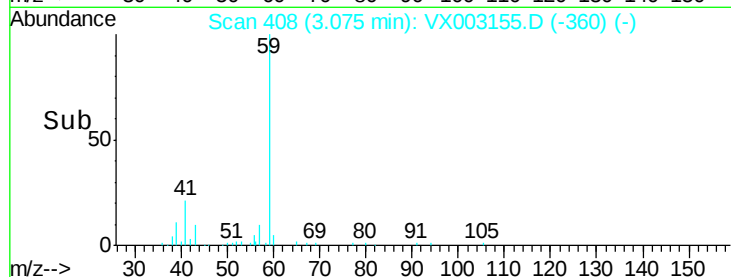
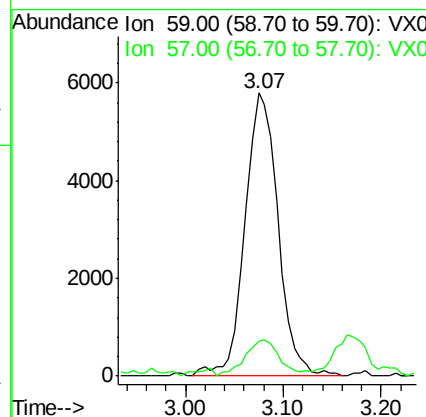
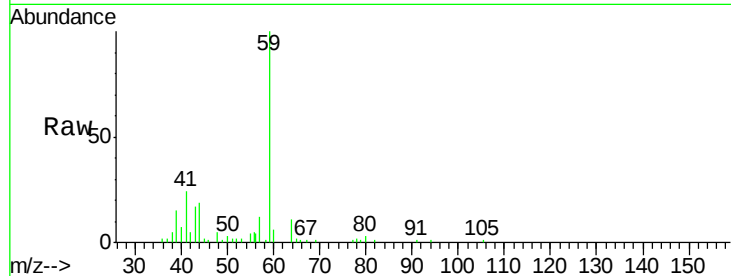


#11

Tert butyl alcohol
 Concen: 18.38 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX003155.D
 Acq: 03 Jul 2018 18:06

Instrument :
 MSVOA_X
 ClientSampleId :

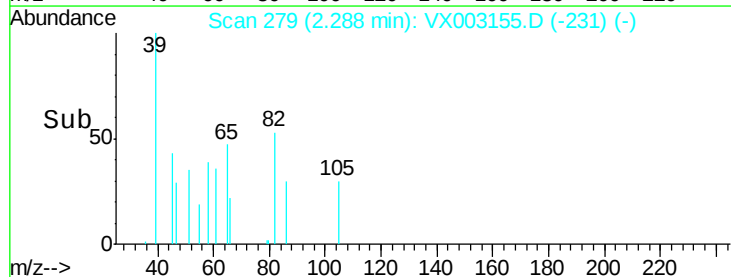
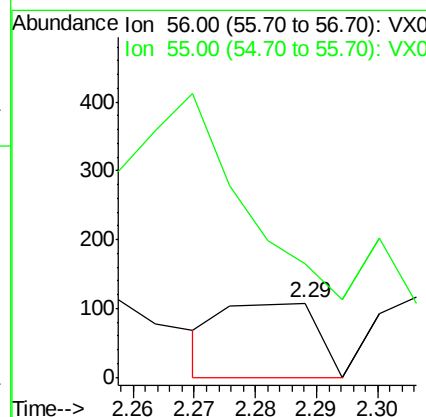
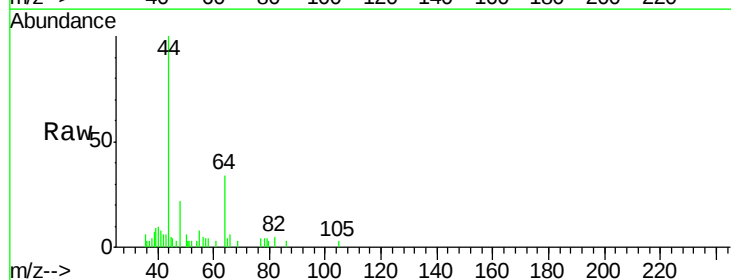
Tot Ion: 59 Resp: 13626
 Ion Ratio Lower Upper
 59 100
 57 13.1 8.2 12.2#

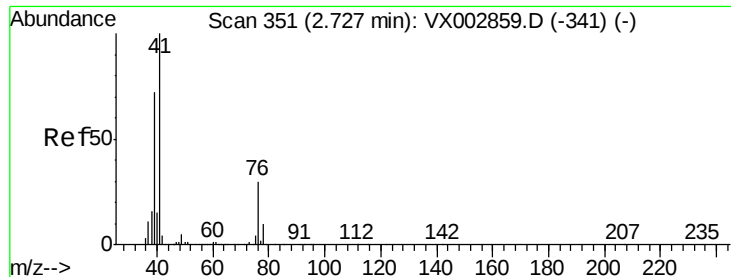


#13

Acrolein
 Concen: 4.51 ug/l
 RT: 2.29 min Scan# 279
 Delta R.T. -0.01 min
 Lab File: VX003155.D
 Acq: 03 Jul 2018 18:06

Tgt Ion: 56 Resp: 116
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#14

Allvl chloride

Concen: 0.33 ug/l

RT: 2.63 min Scan# 335

Delta R.T. -0.10 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

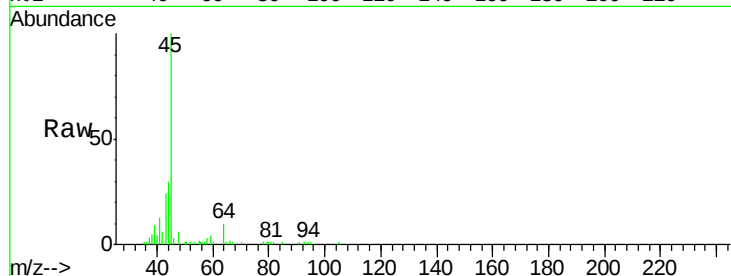
Tot Ion: 41 Resp: 1750

Ion Ratio Lower Upper

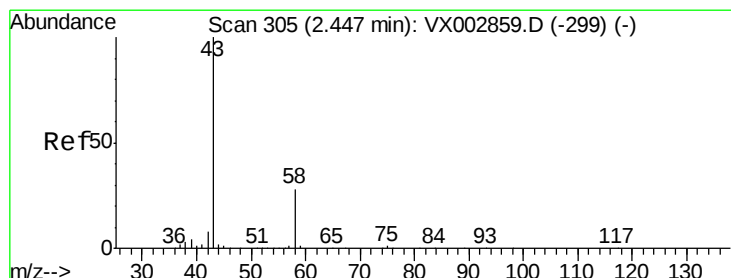
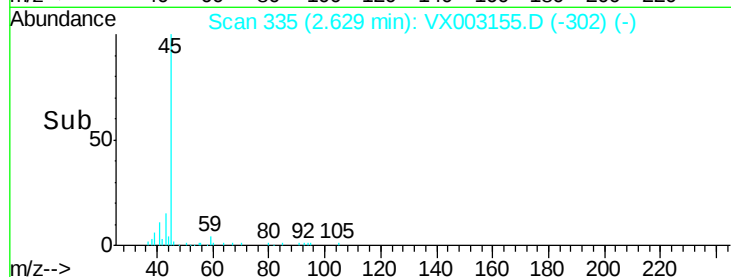
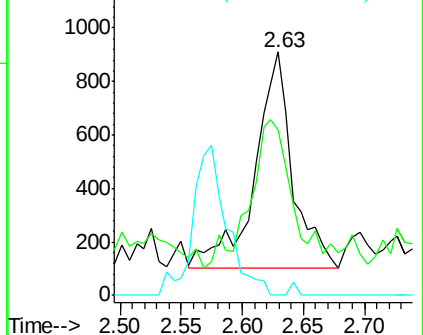
41 100

39 79.6 56.8 85.2

76 0.0 23.8 35.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 75.90 (75.60 to 76.60): VX0



#16

Acetone

Concen: 4.54 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003155.D

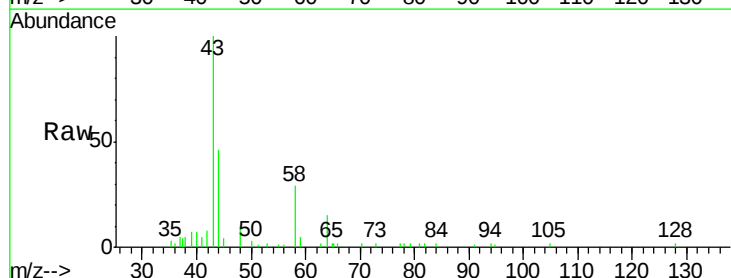
Acq: 03 Jul 2018 18:06

Tgt Ion: 43 Resp: 6996

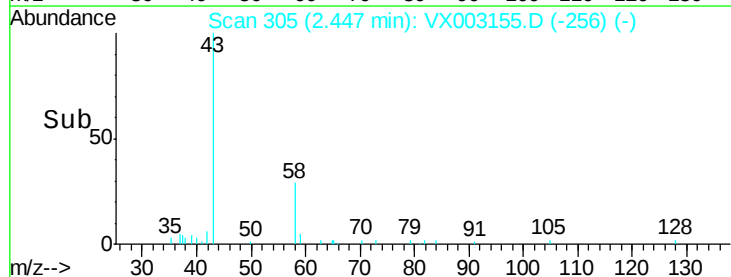
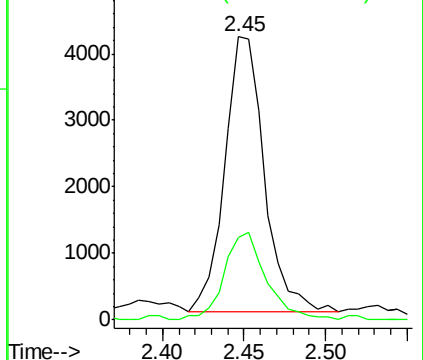
Ion Ratio Lower Upper

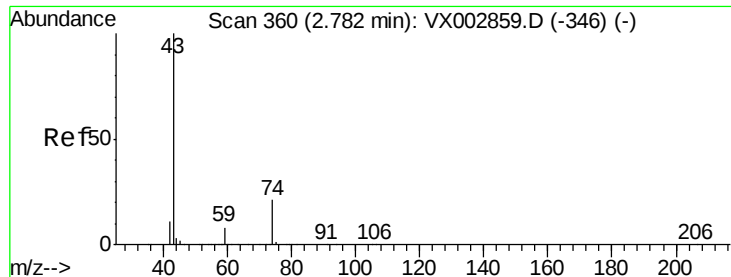
43 100

58 30.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

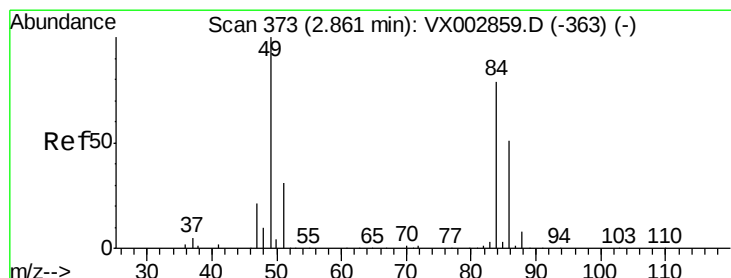
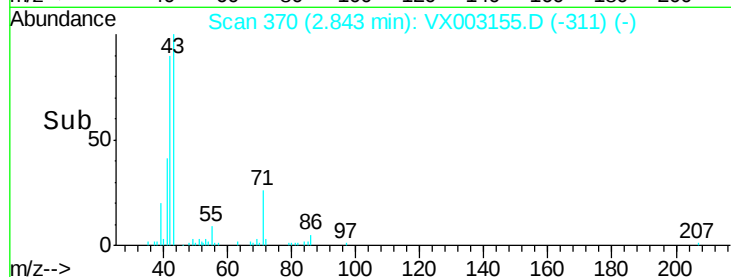
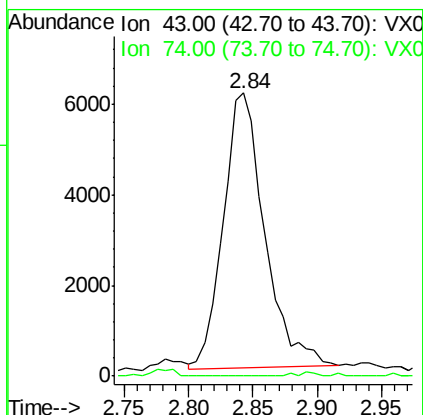
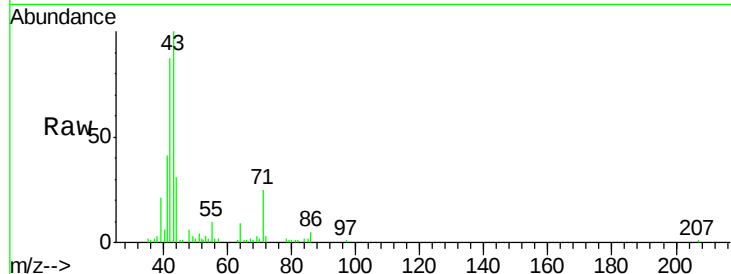




#18
Methyl Acetate
Concen: 3.18 ug/l
RT: 2.84 min Scan# 370
Delta R.T. 0.06 min
Lab File: VX003155.D
Acq: 03 Jul 2018 18:06

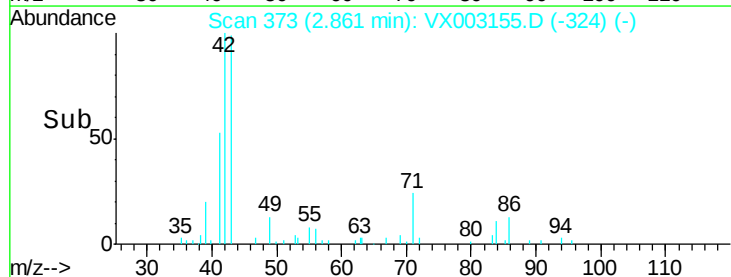
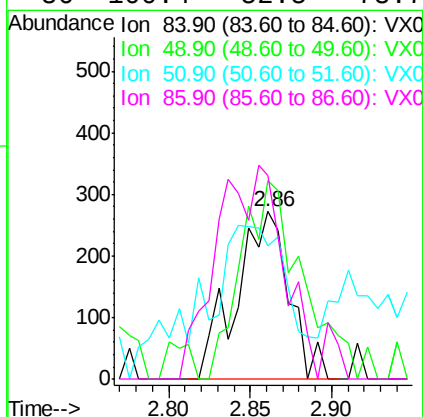
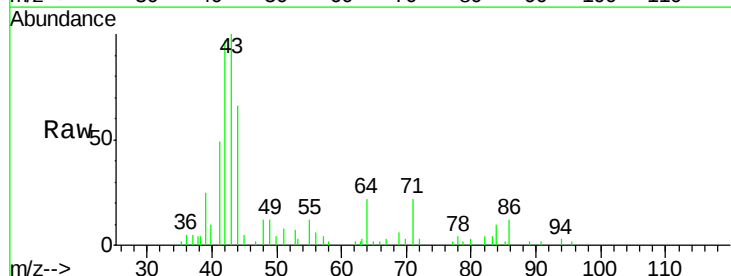
Instrument :
MSVOA_X
ClientSampleId :

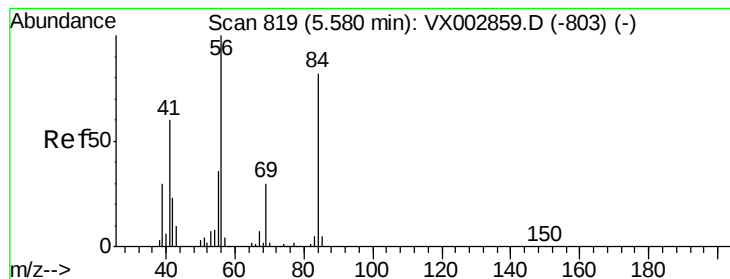
Tot Ion: 43 Resp: 13689
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#20
Methylene Chloride
Concen: 0.20 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX003155.D
Acq: 03 Jul 2018 18:06

Tgt Ion: 84 Resp: 613
Ion Ratio Lower Upper
84 100
49 97.8 107.8 161.6#
51 58.1 32.8 49.2#
86 100.4 52.5 78.7#





#31

Cyclohexane

Concen: 1.64 ug/l

RT: 5.58 min Scan# 819

Delta R.T. -0.00 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

Instrument :
MSVOA_X
ClientSampleId :

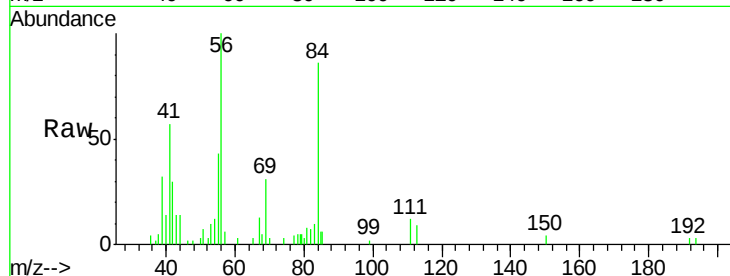
Tot Ion: 56 Resp: 7636

Ion Ratio Lower Upper

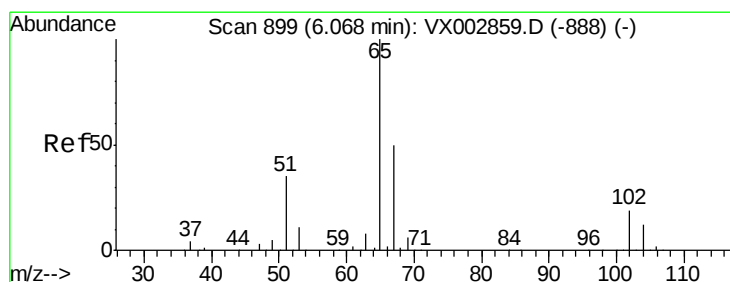
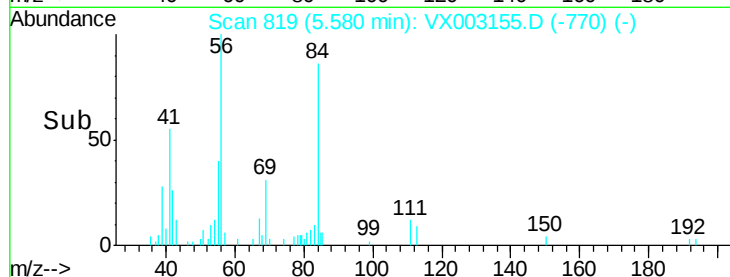
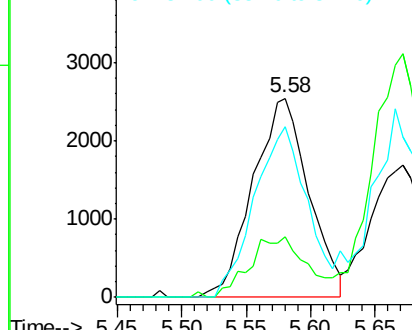
56 100

69 30.7 23.7 35.5

84 85.5 64.1 96.1



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.98 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003155.D

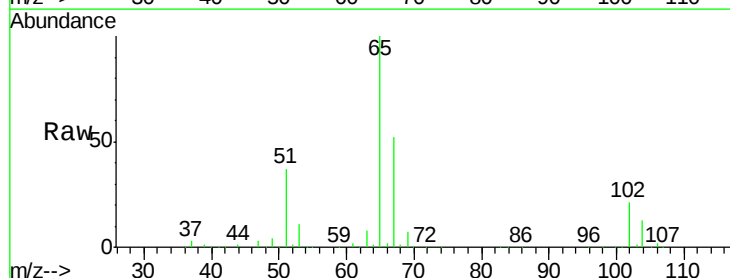
Acq: 03 Jul 2018 18:06

Tgt Ion: 65 Resp: 171145

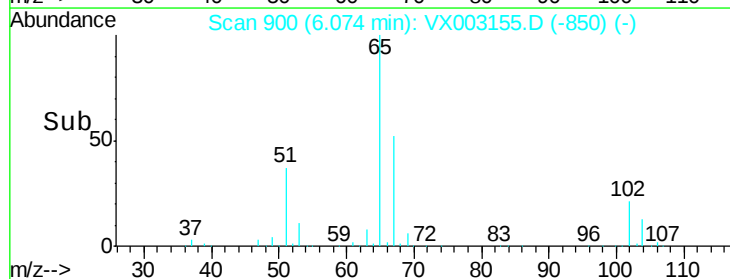
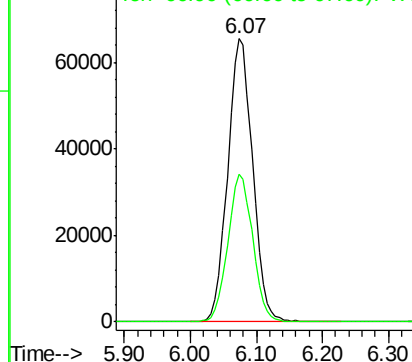
Ion Ratio Lower Upper

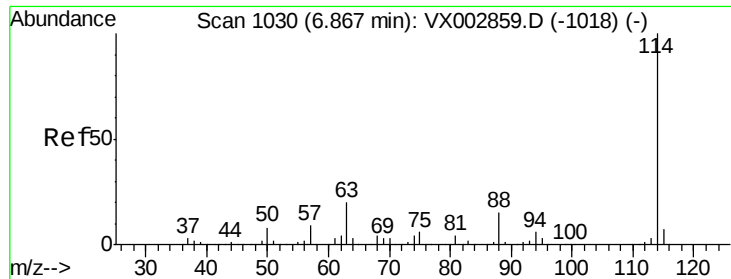
65 100

67 52.0 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

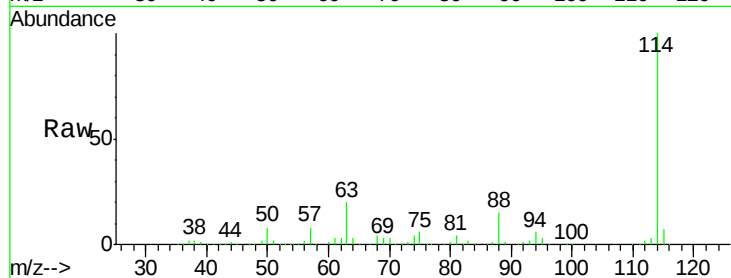




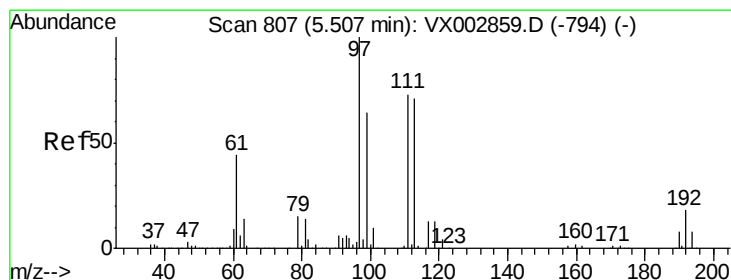
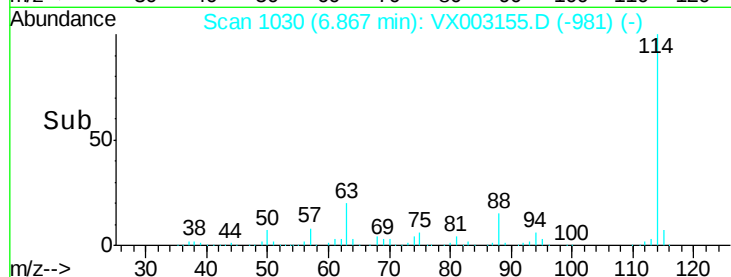
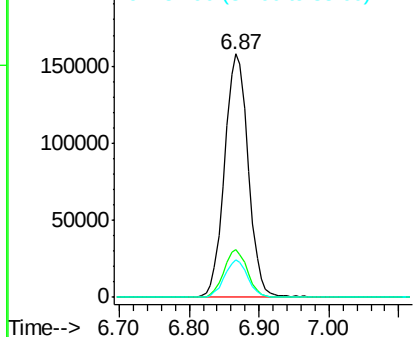
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003155.D
 Acq: 03 Jul 2018 18:06

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 371589
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.4
 88 15.2 0.0 30.0

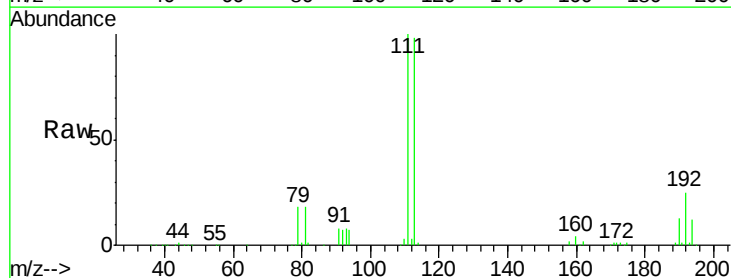


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

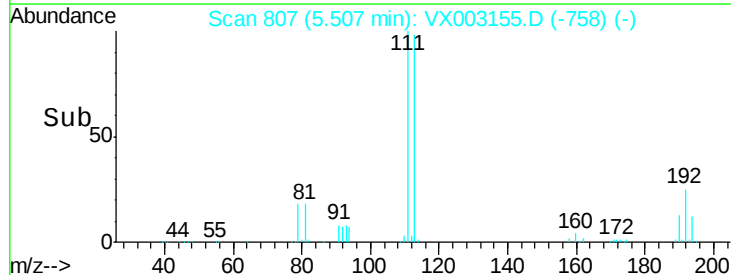
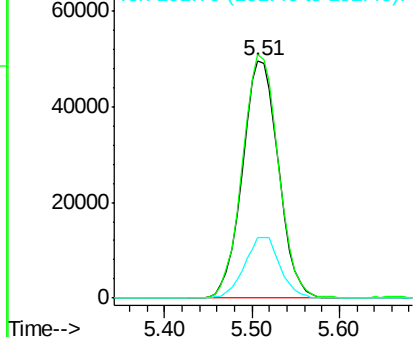


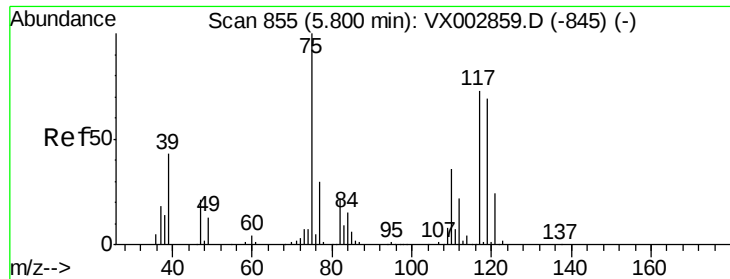
#35
 Dibromofluoromethane
 Concen: 48.38 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003155.D
 Acq: 03 Jul 2018 18:06

Tgt Ion:113 Resp: 142358
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.4 122.0
 192 25.1 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

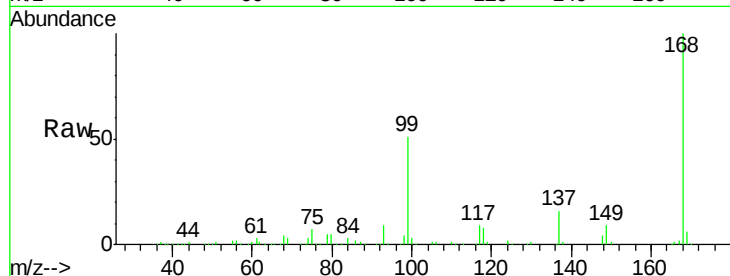




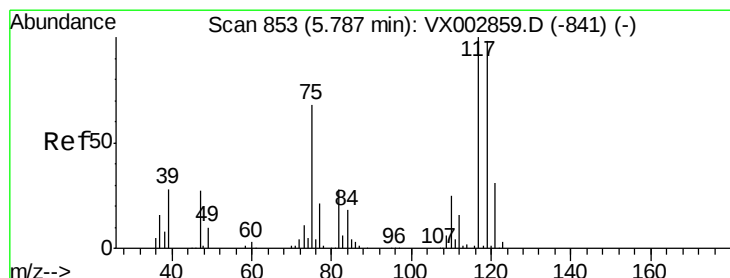
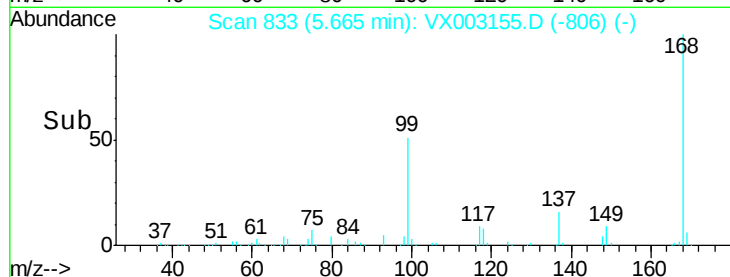
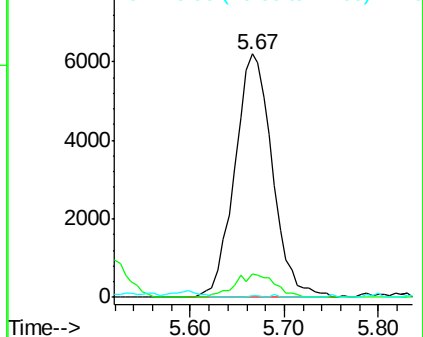
#36
 1,1-Dichloropropene
 Concen: 4.23 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003155.D
 Acq: 03 Jul 2018 18:06

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 17251
 Ion Ratio Lower Upper
 75 100
 110 10.3 18.1 54.4#
 77 0.2 24.3 36.5#

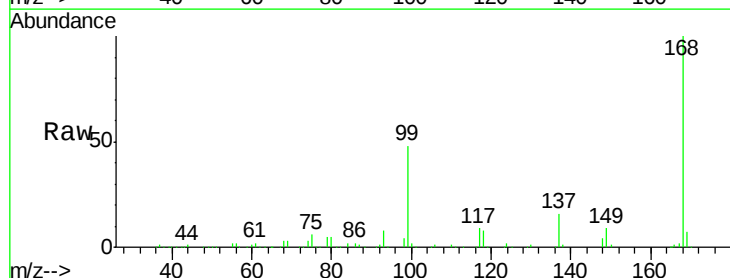


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

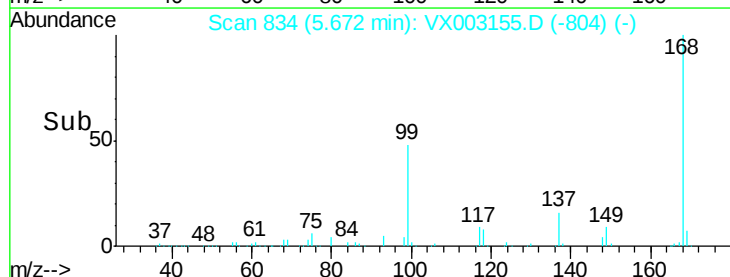
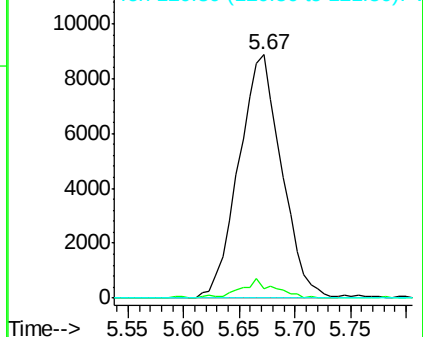


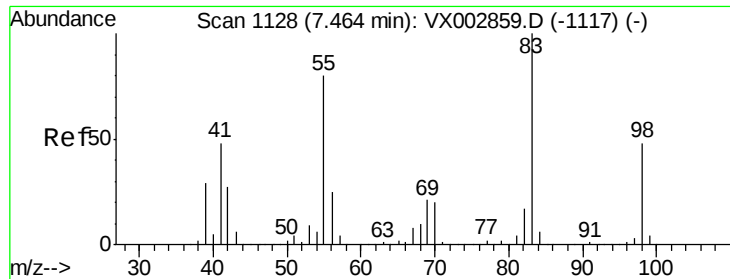
#38
 Carbon Tetrachloride
 Concen: 5.30 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX003155.D
 Acq: 03 Jul 2018 18:06

Tgt Ion: 117 Resp: 23719
 Ion Ratio Lower Upper
 117 100
 119 3.9 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

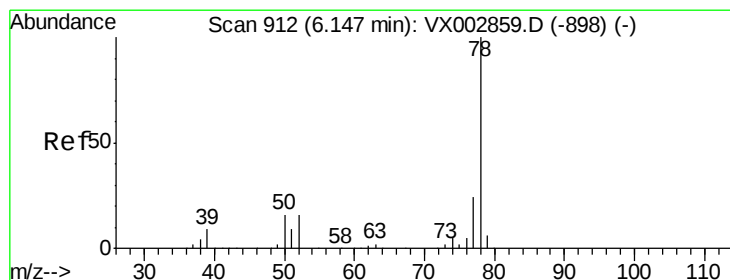
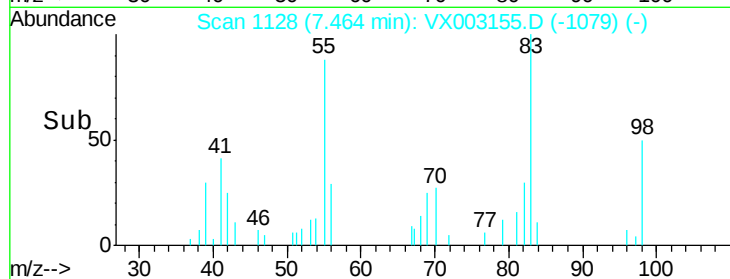
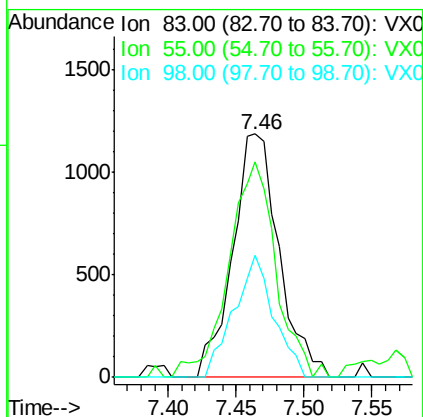
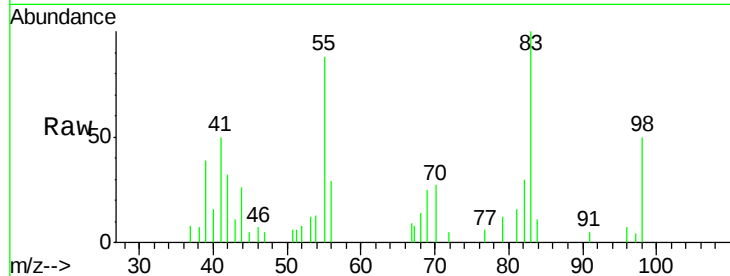




#39
Methvlcvclohexane
Concen: 0.60 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX003155.D
Acq: 03 Jul 2018 18:06

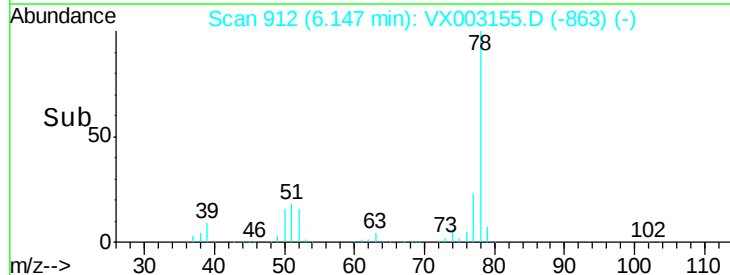
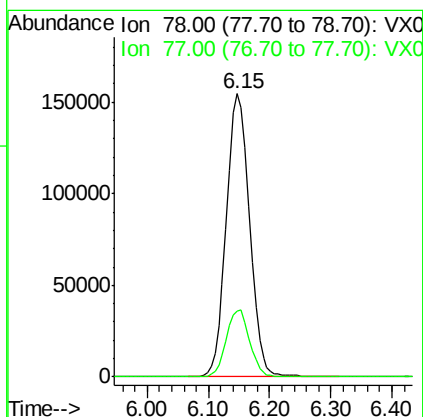
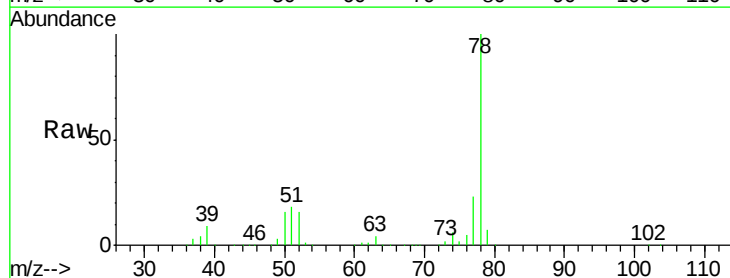
Instrument :
MSVOA_X
ClientSampleId :

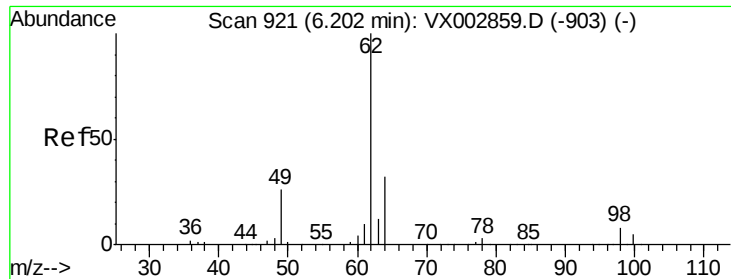
Tot Ion: 83 Resp: 2825
Ion Ratio Lower Upper
83 100
55 88.4 65.4 98.0
98 49.8 37.4 56.0



#40
Benzene
Concen: 34.26 ug/l
RT: 6.15 min Scan# 912
Delta R.T. -0.00 min
Lab File: VX003155.D
Acq: 03 Jul 2018 18:06

Tgt Ion: 78 Resp: 405639
Ion Ratio Lower Upper
78 100
77 23.3 19.1 28.7





#42

1,2-Dichloroethane

Concen: 0.80 ug/l

RT: 6.14 min Scan# 911

Delta R.T. -0.06 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

Instrument :

MSVOA_X

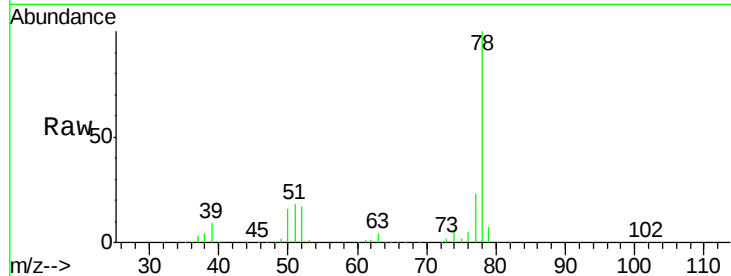
ClientSampleId :

Tot Ion: 62 Resp: 3829

Ion Ratio Lower Upper

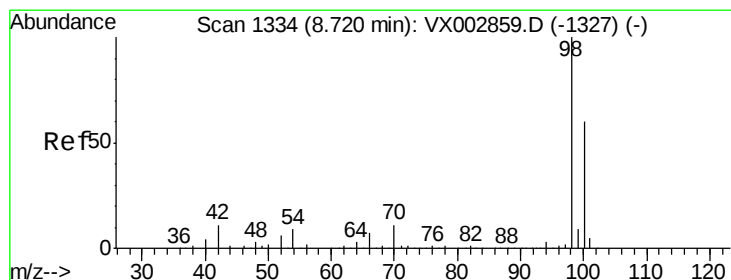
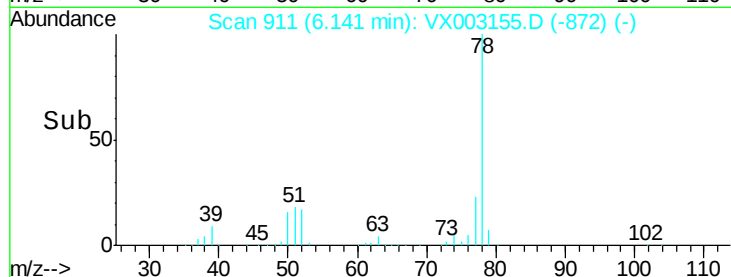
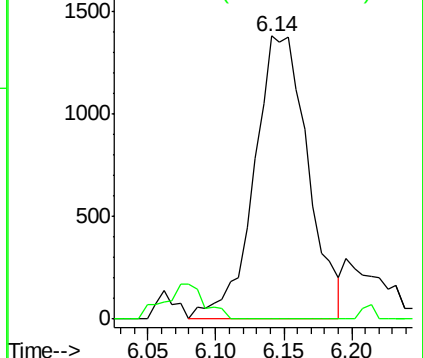
62 100

98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#50

Toluene-d8

Concen: 47.89 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003155.D

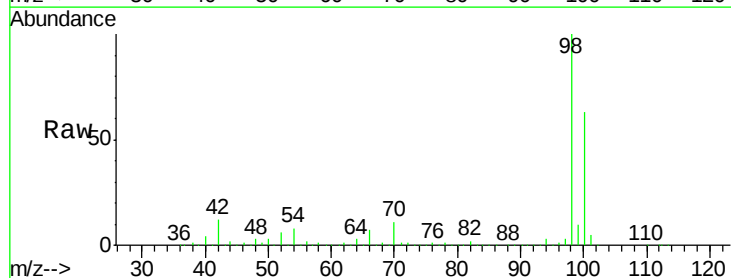
Acq: 03 Jul 2018 18:06

Tgt Ion: 98 Resp: 514587

Ion Ratio Lower Upper

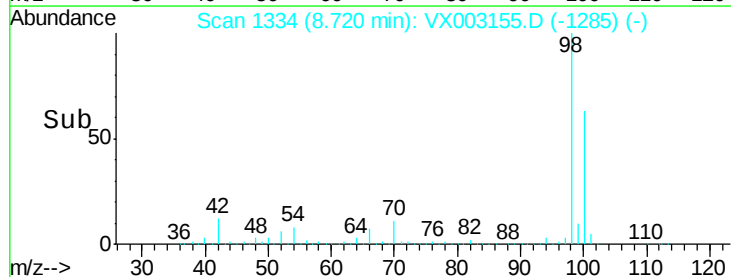
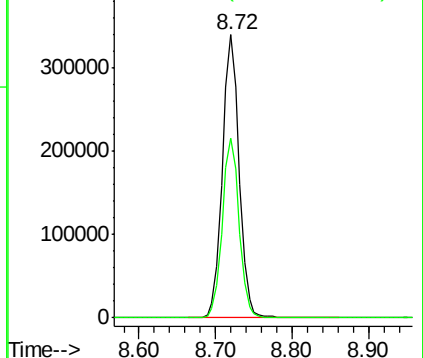
98 100

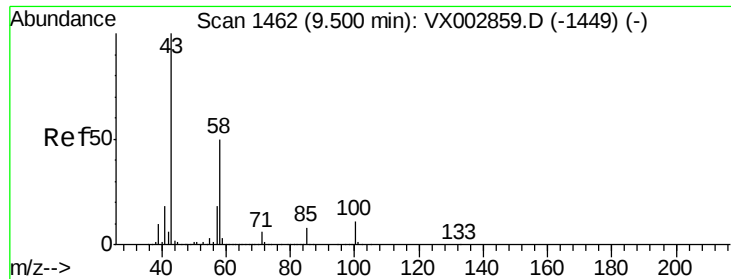
100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#59

2-Hexanone

Concen: 0.52 ug/l

RT: 9.53 min Scan# 1467

Delta R.T. 0.03 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

Instrument :

MSVOA_X

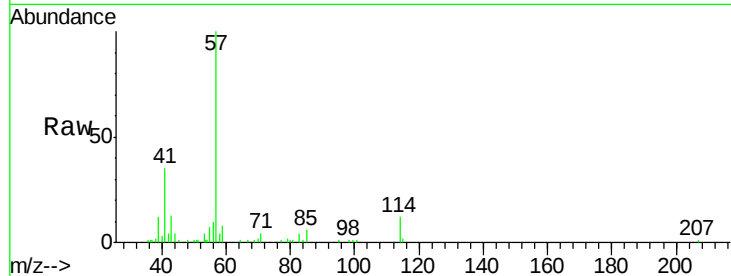
ClientSampled :

Tot Ion: 43 Resp: 1829

Ion Ratio Lower Upper

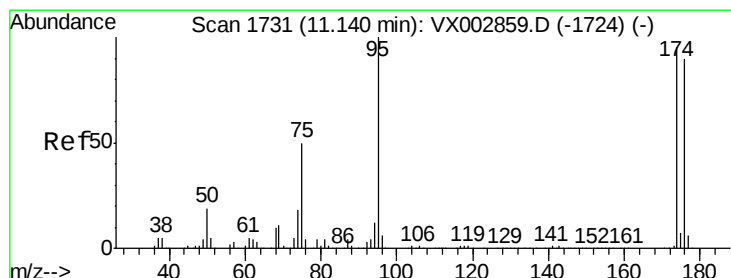
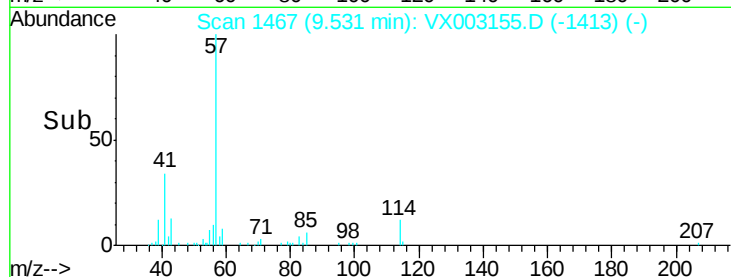
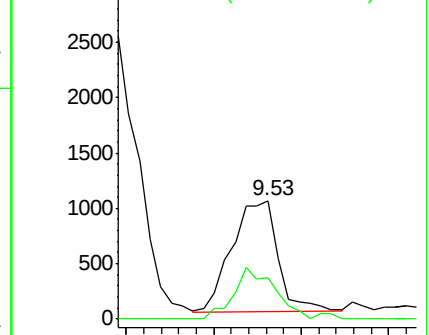
43 100

58 41.6 24.6 73.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 44.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

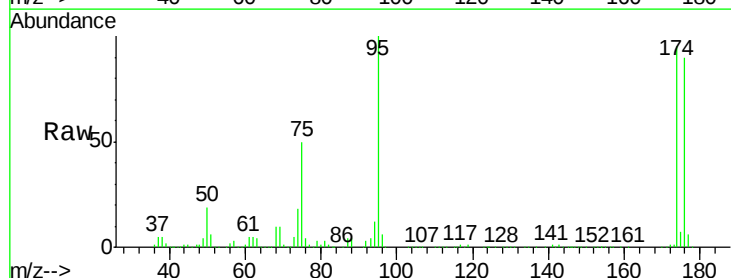
Tgt Ion: 95 Resp: 182740

Ion Ratio Lower Upper

95 100

174 98.1 0.0 187.4

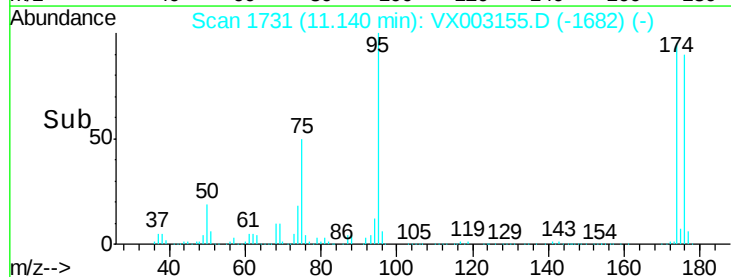
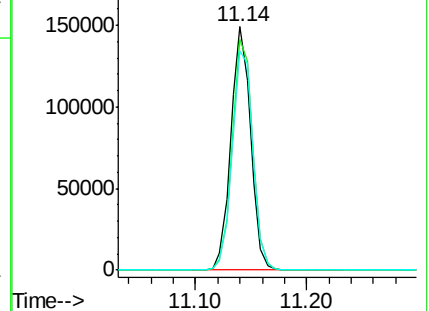
176 94.4 0.0 181.0

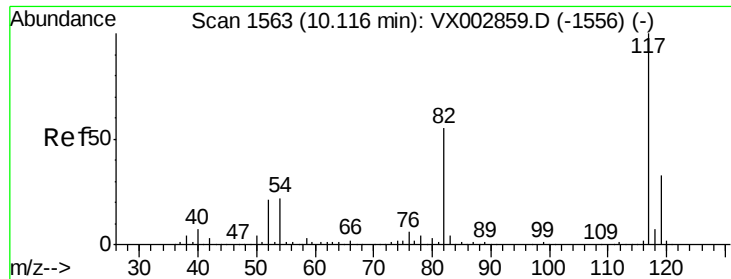


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

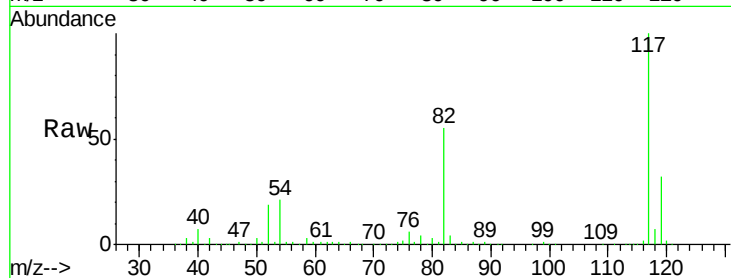




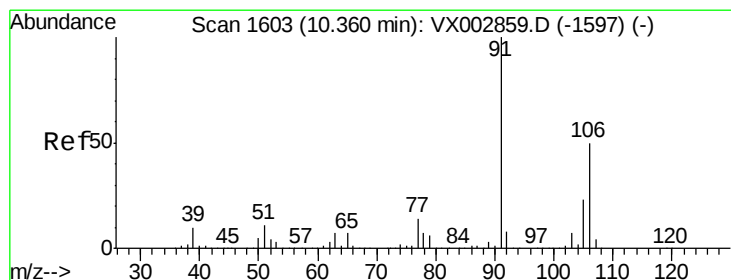
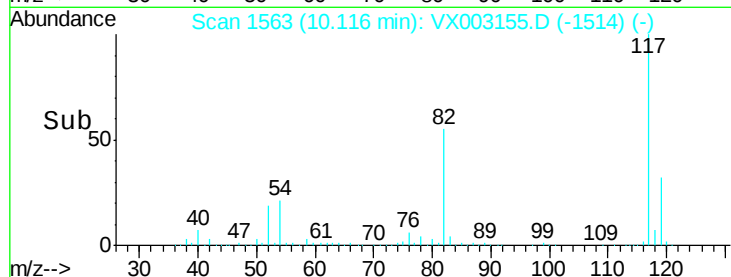
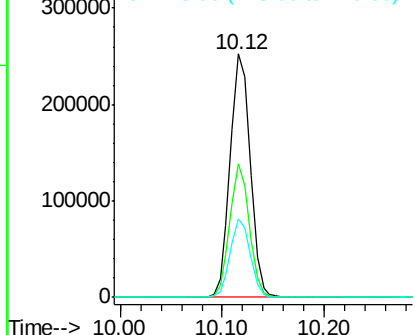
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003155.D
Acq: 03 Jul 2018 18:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 343822
Ion Ratio Lower Upper
117 100
82 54.8 45.0 67.4
119 32.2 25.8 38.6

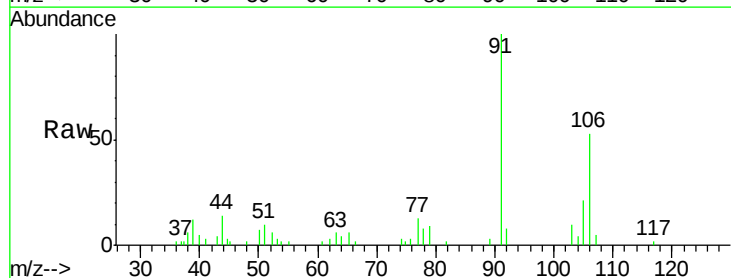


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

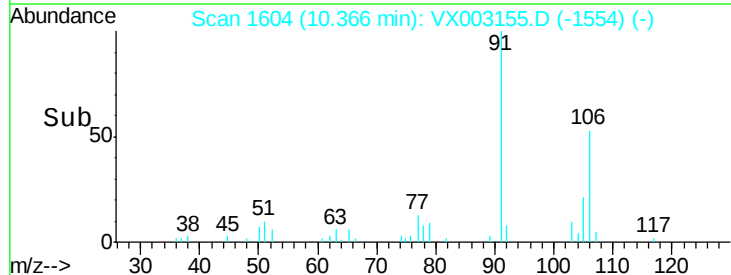
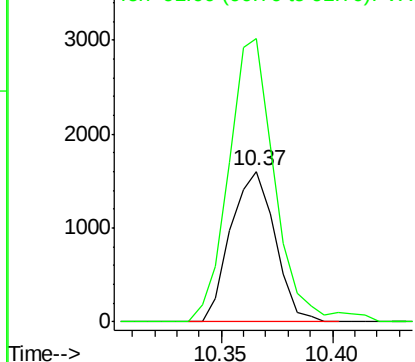


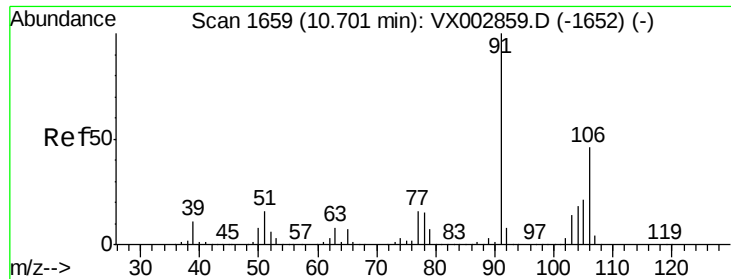
#68
m/p-Xylenes
Concen: 0.40 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.01 min
Lab File: VX003155.D
Acq: 03 Jul 2018 18:06

Tgt Ion:106 Resp: 2217
Ion Ratio Lower Upper
106 100
91 196.6 163.4 245.2



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

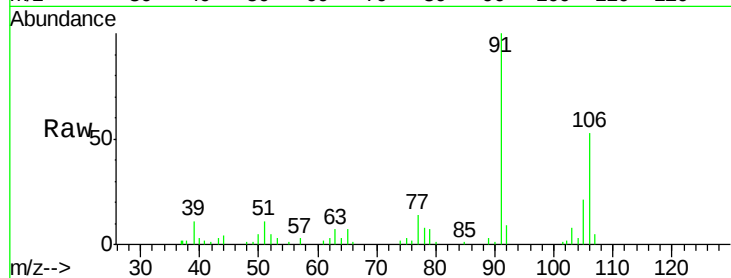




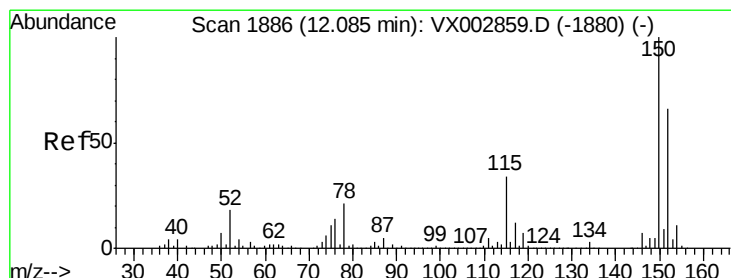
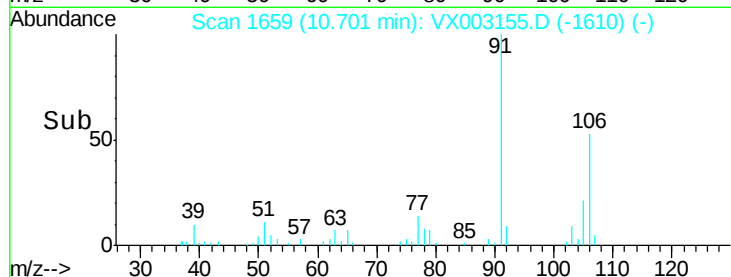
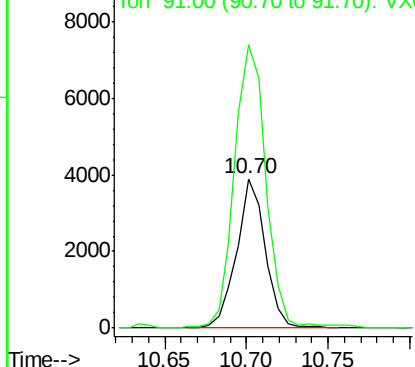
#69
o-Xylene
Concen: 0.89 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX003155.D
Acq: 03 Jul 2018 18:06

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:106 Resp: 4803
Ion Ratio Lower Upper
106 100
91 208.2 108.2 324.6

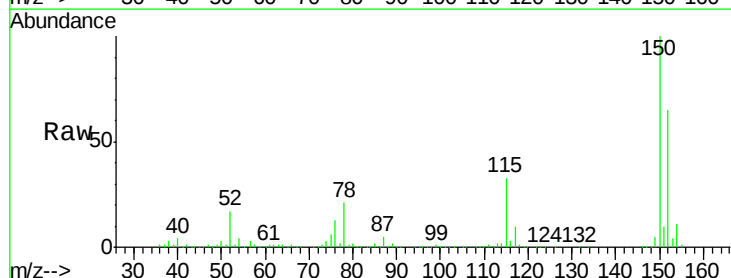


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

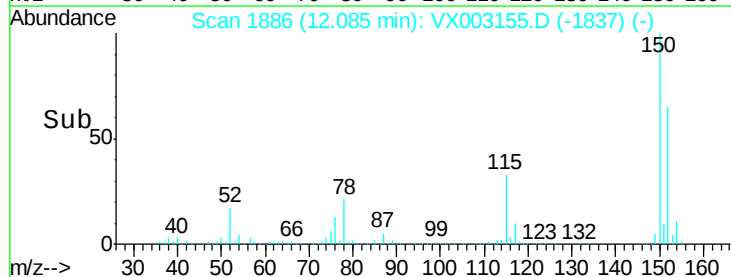
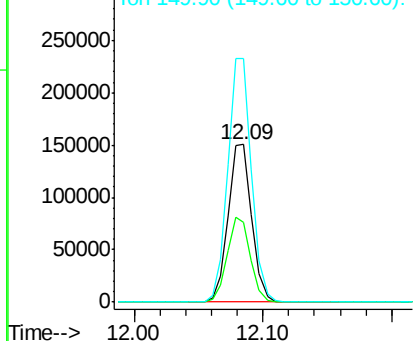


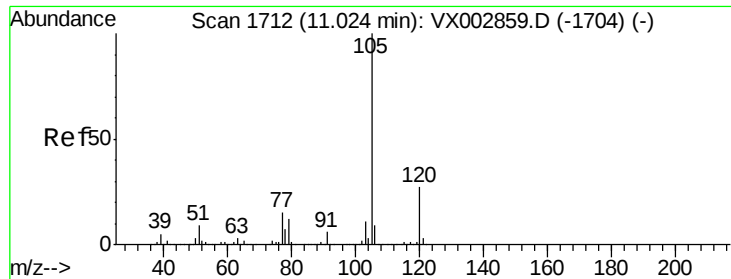
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX003155.D
Acq: 03 Jul 2018 18:06

Tgt Ion:152 Resp: 193743
Ion Ratio Lower Upper
152 100
115 53.0 40.1 120.2
150 155.3 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





#73

Isopropylbenzene

Concen: 0.20 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.01 min

Lab File: VX003155.D

Acq: 03 Jul 2018 18:06

Instrument :

MSVOA_X

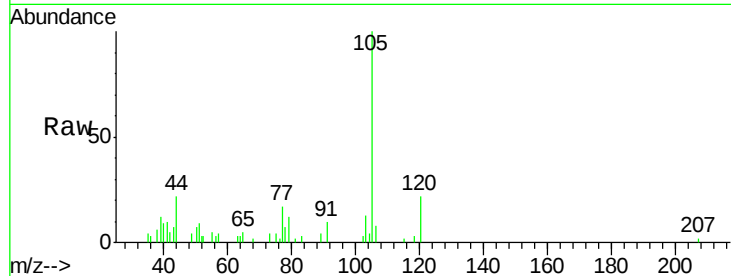
ClientSampleId :

Tot Ion:105 Resp: 2667

Ion Ratio Lower Upper

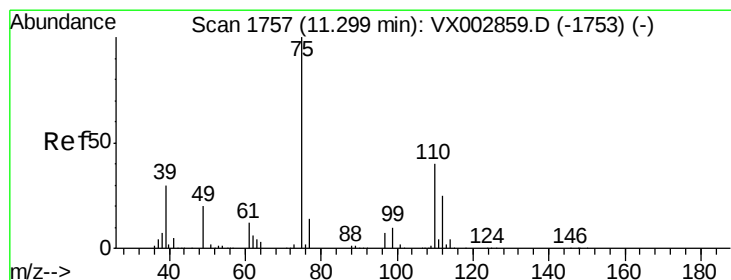
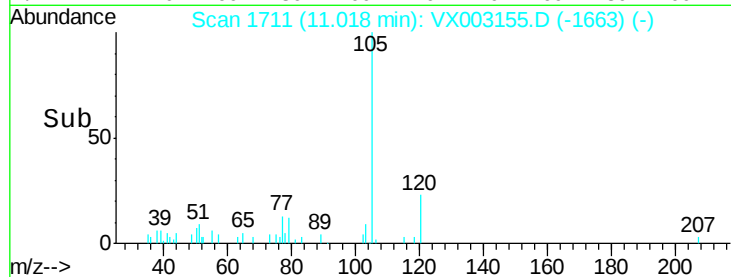
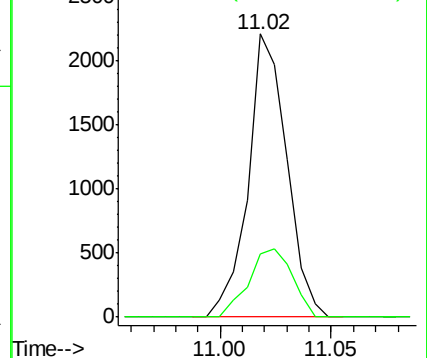
105 100

120 27.1 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 26.33 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003155.D

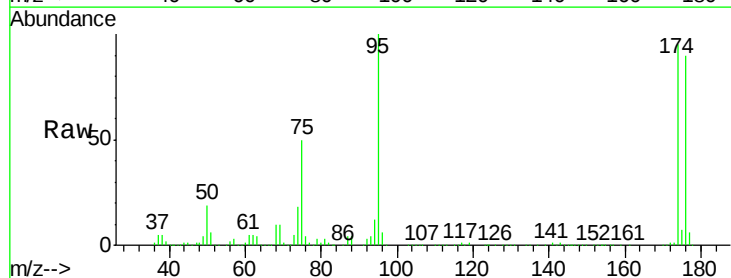
Acq: 03 Jul 2018 18:06

Tgt Ion: 75 Resp: 92412

Ion Ratio Lower Upper

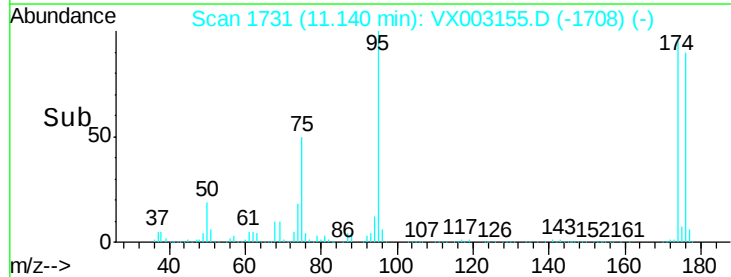
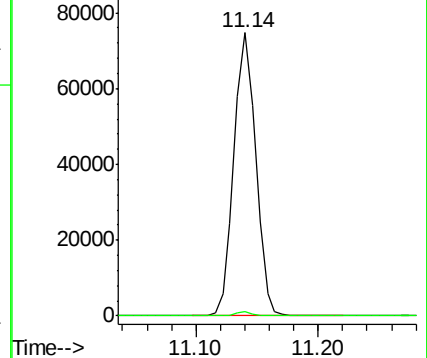
75 100

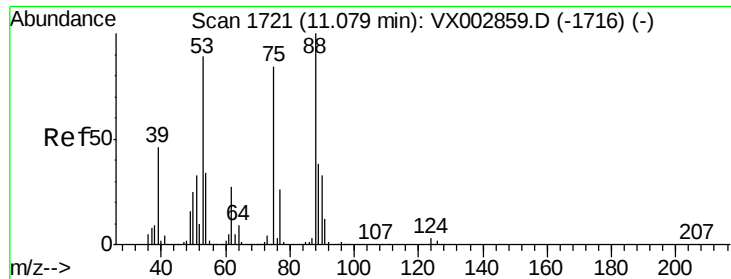
77 1.4 22.8 68.3#



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: 74.63 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003155.D
 Acq: 03 Jul 2018 18:06

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 92412
 Ion Ratio Lower Upper
 75 100
 53 0.5 86.8 130.2#
 89 0.0 38.2 57.2#

