

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070318\
 Data File : VX003147.D
 Acq On : 03 Jul 2018 14:31
 Operator : JC/MD
 Sample : J3754-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 04 03:14:41 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	257610	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	354301	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	324558	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	181381	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	162387	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	
35) Dibromofluoromethane	5.51	113	134655	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
50) Toluene-d8	8.72	98	489405	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
62) 4-Bromofluorobenzene	11.14	95	170938	43.26	ug/l	0.00
Spiked Amount			Recovery	=	86.52%	

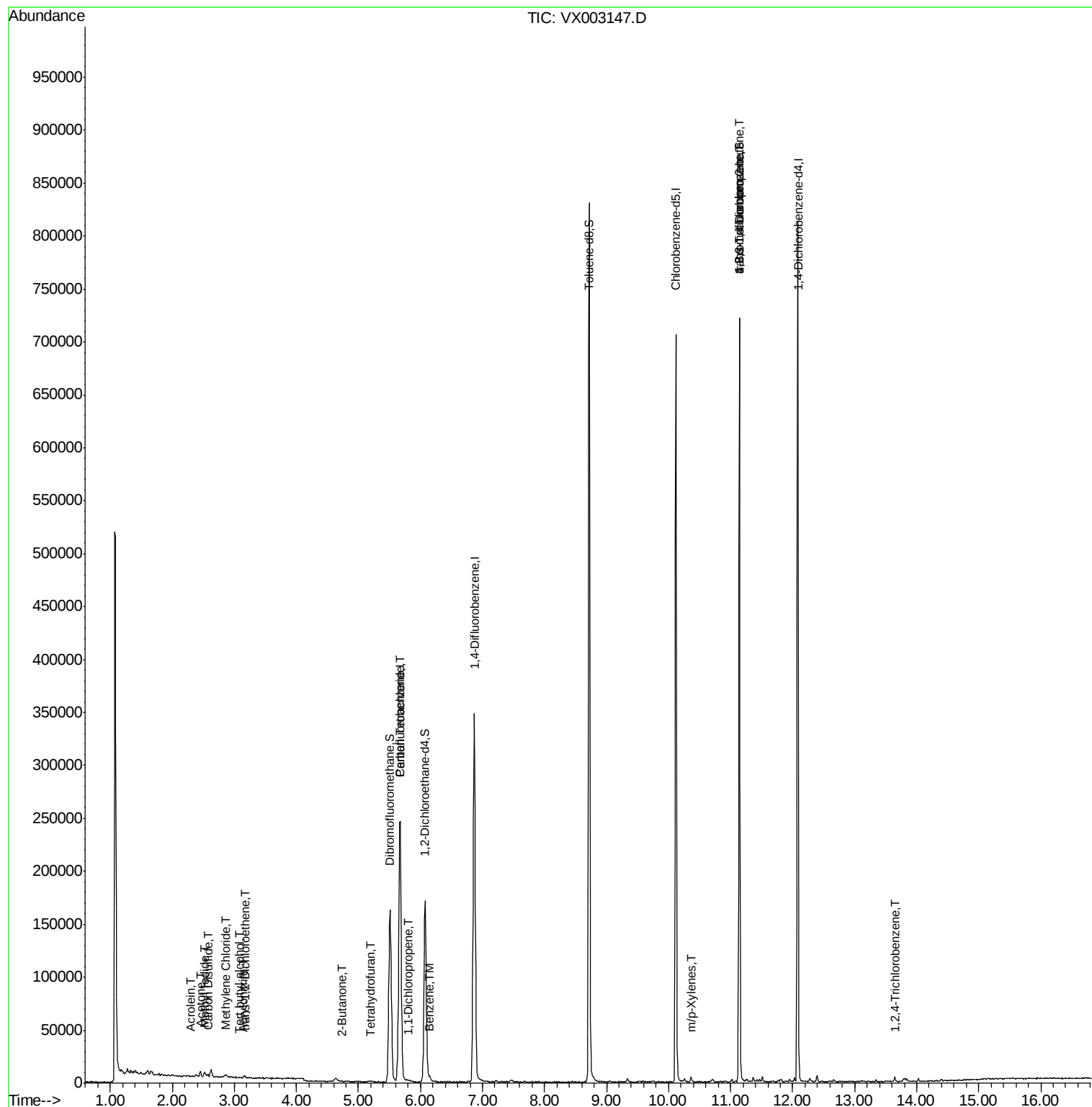
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	476	Below Cal	#	36
3) Chloromethane	1.32	50	1462	Below Cal		89
5) Bromomethane	1.65	94	2821	Below Cal		90
6) Chloroethane	1.73	64	242	Below Cal		97
10) Methyl Iodide	2.52	142	5858	8.00	ug/l	99
11) Tert butyl alcohol	3.07	59	303	0.43	ug/l #	85
13) Acrolein	2.29	56	290	4.95	ug/l #	51
15) Acrylonitrile	3.14	53	725	0.48	ug/l #	86
16) Acetone	2.45	43	5120	3.47	ug/l	93
17) Carbon Disulfide	2.57	76	2991	0.44	ug/l #	74
20) Methylene Chloride	2.86	84	1147	0.40	ug/l	90
21) trans-1,2-Dichloroethene	3.16	96	715	0.26	ug/l #	68
25) 2-Butanone	4.72	43	747	0.34	ug/l	98
29) Tetrahydrofuran	5.19	42	452	0.32	ug/l #	48
36) 1,1-Dichloropropene	5.81	75	820	0.21	ug/l #	79
38) Carbon Tetrachloride	5.67	117	22605	5.30	ug/l #	16
40) Benzene	6.15	78	4460	0.40	ug/l	98
68) m/p-Xylenes	10.36	106	1184	0.23	ug/l #	68
76) 1,2,3-Trichloropropane	11.14	75	87057	26.50	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	87057	75.07	ug/l #	7
93) 1,2,4-Trichlorobenzene	13.65	180	1081	0.23	ug/l	93

(#) = 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: VX003147.D

Acq: 03 Jul 2018 14:31

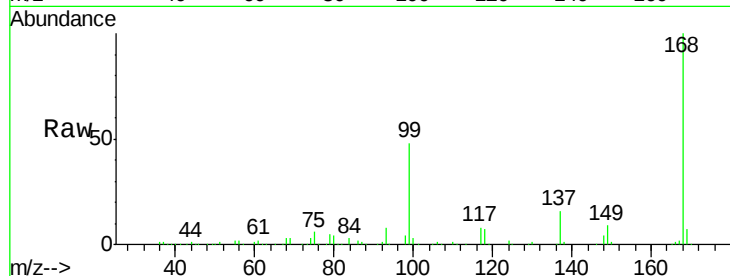
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 257610

Ion Ratio Lower Upper

168 100

99 47.7 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

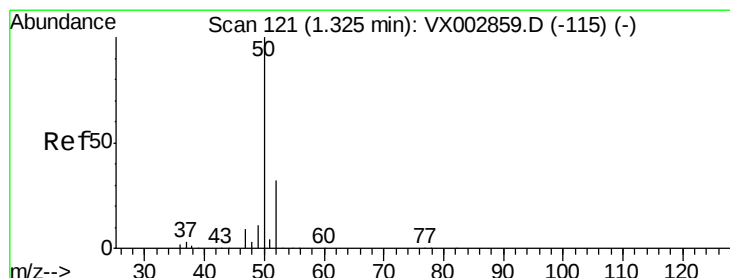
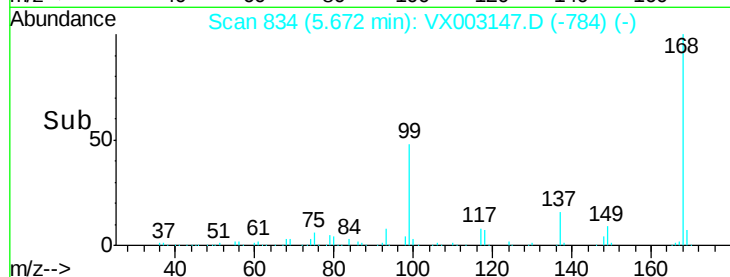
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003147.D

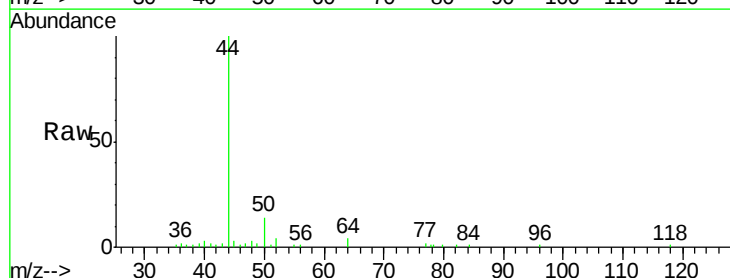
Acq: 03 Jul 2018 14:31

Tgt Ion: 50 Resp: 1462

Ion Ratio Lower Upper

50 100

52 25.7 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1200

1000

800

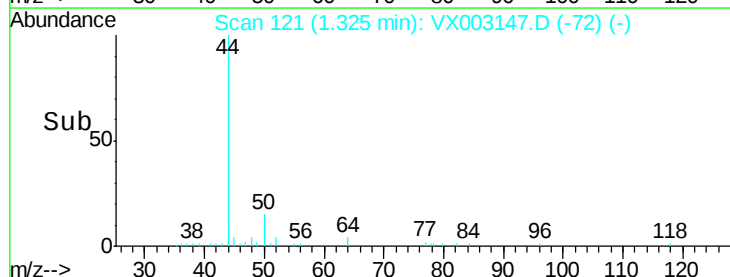
600

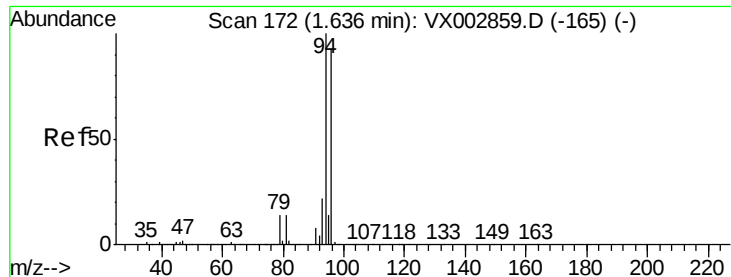
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

Instrument :

MSVOA_X

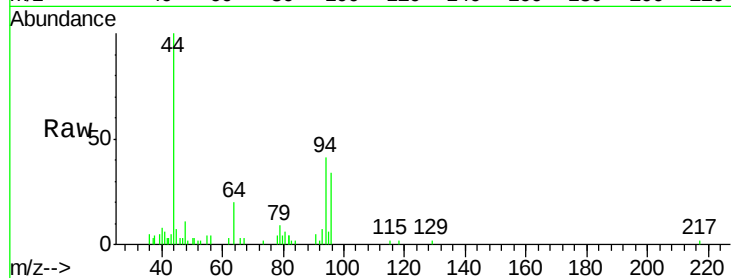
ClientSampled :

Tot Ion: 94 Resp: 2821

Ion Ratio Lower Upper

94 100

96 84.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1500

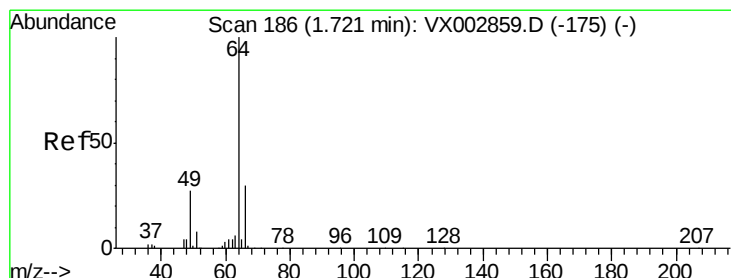
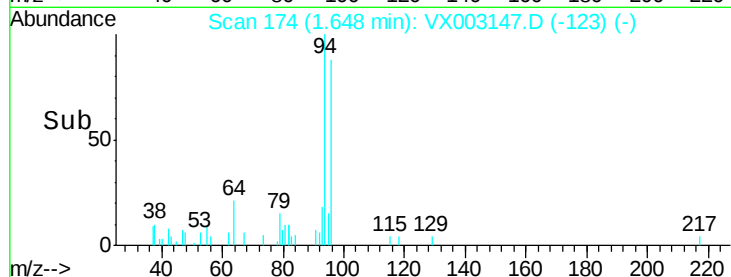
1000

500

0

Time-->

1.55 1.60 1.65 1.70 1.75



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003147.D

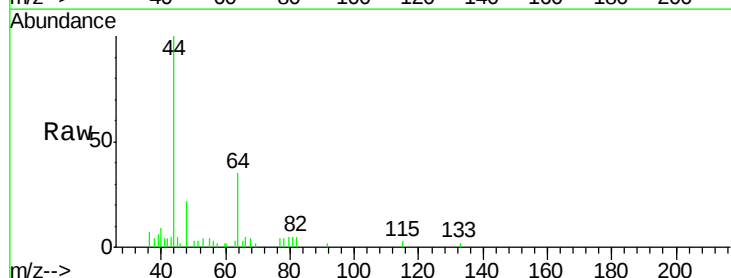
Acq: 03 Jul 2018 14:31

Tgt Ion: 64 Resp: 242

Ion Ratio Lower Upper

64 100

66 33.7 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

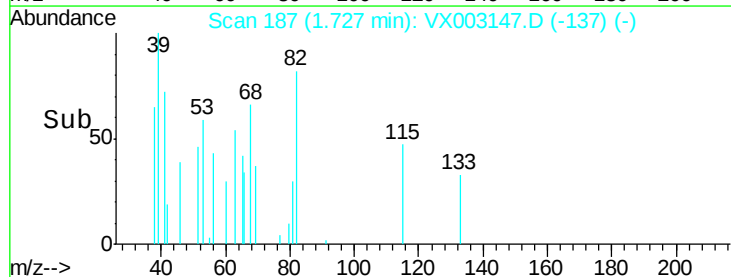
1000

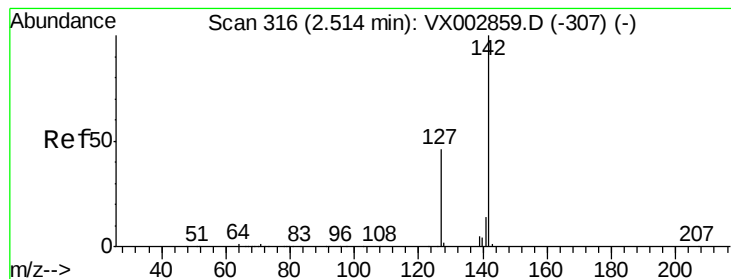
500

0

Time-->

1.70 1.72 1.74





#10

Methvl Iodide

Concen: 8.00 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

Instrument :

MSVOA_X

ClientSampled :

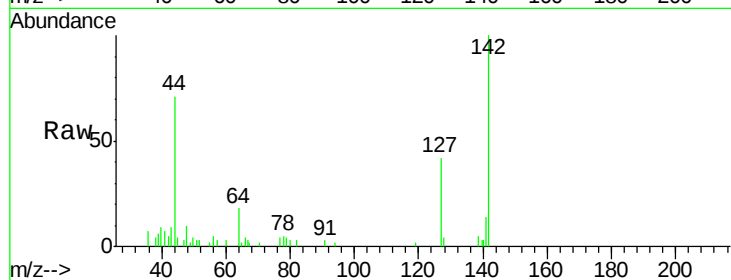
Tot Ion:142 Resp: 5858

Ion Ratio Lower Upper

142 100

127 46.0 36.6 55.0

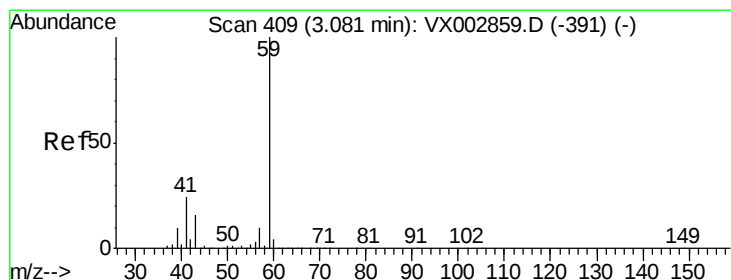
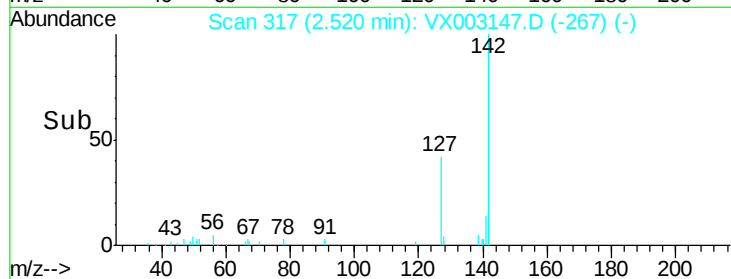
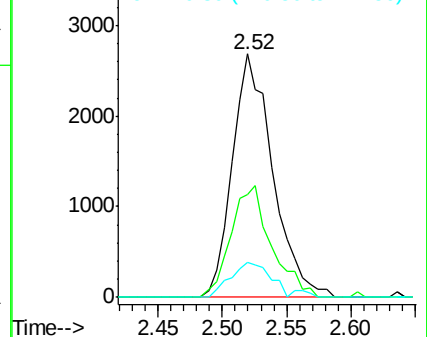
141 15.0 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.43 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX003147.D

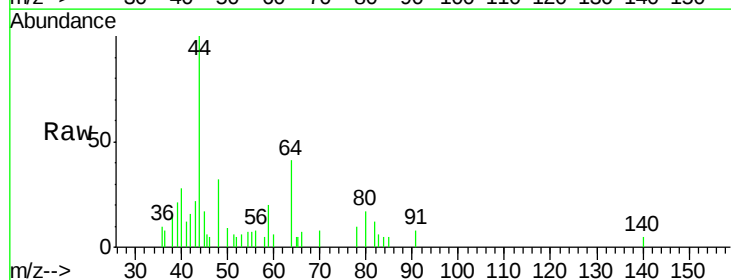
Acq: 03 Jul 2018 14:31

Tgt Ion: 59 Resp: 303

Ion Ratio Lower Upper

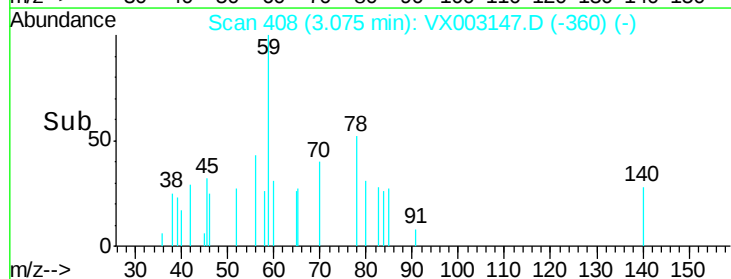
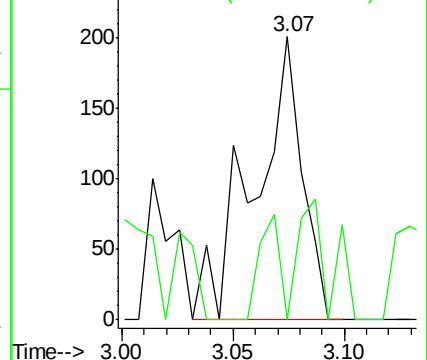
59 100

57 15.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 4.95 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

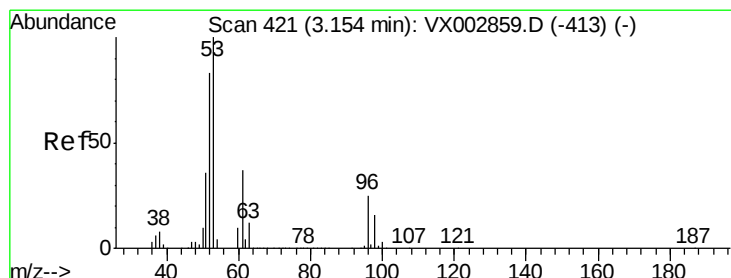
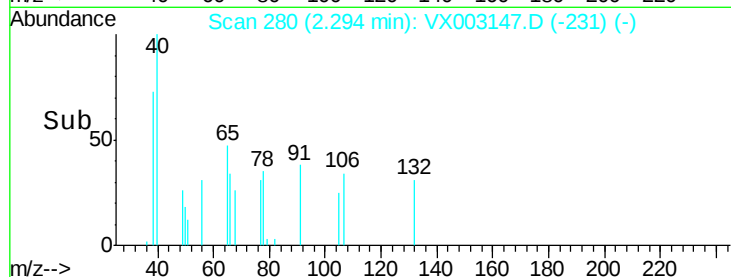
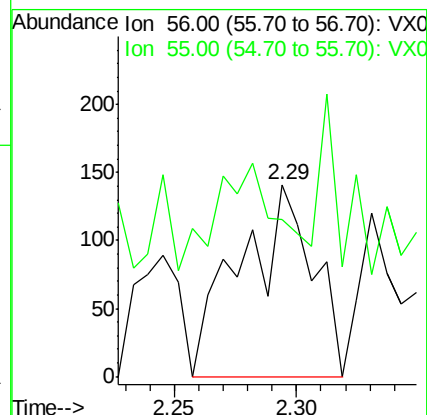
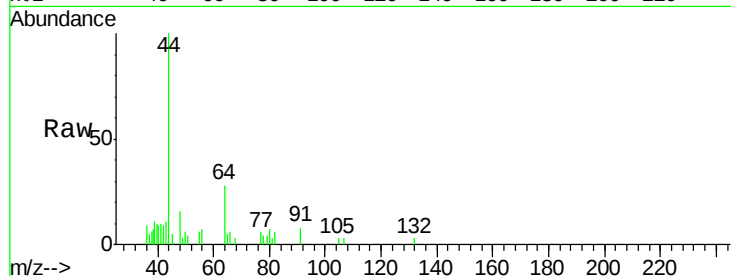
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 290

Ion Ratio Lower Upper

56 100

55 30.7 57.0 85.4#



#15

Acrylonitrile

Concen: 0.48 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

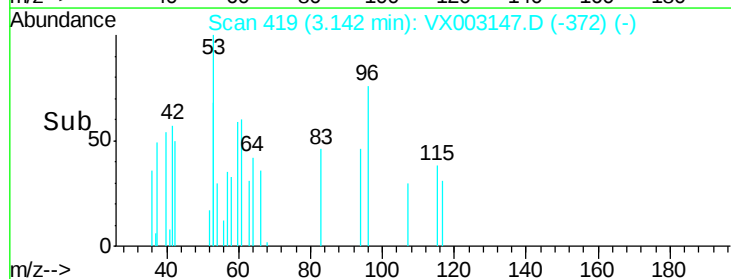
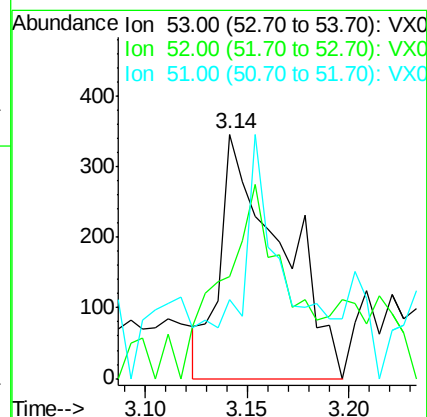
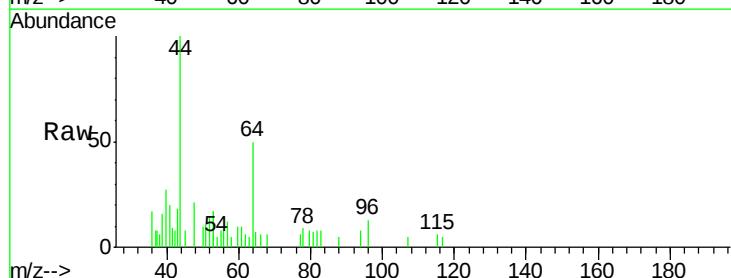
Tgt Ion: 53 Resp: 725

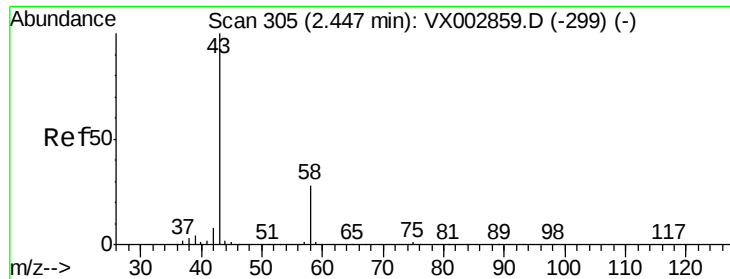
Ion Ratio Lower Upper

53 100

52 83.3 66.7 100.1

51 65.2 29.9 44.9#





#16

Acetone

Concen: 3.47 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

Instrument :

MSVOA_X

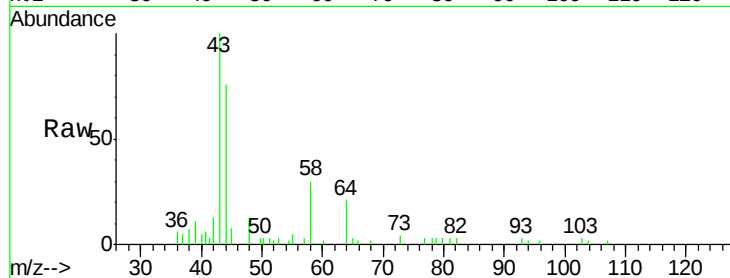
ClientSampled :

Tot Ion: 43 Resp: 5120

Ion Ratio Lower Upper

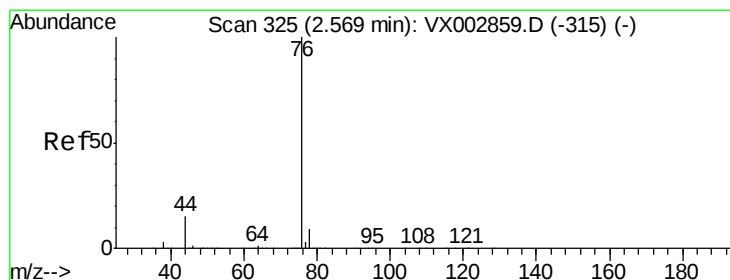
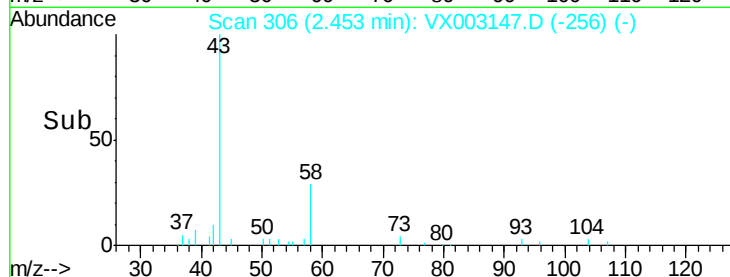
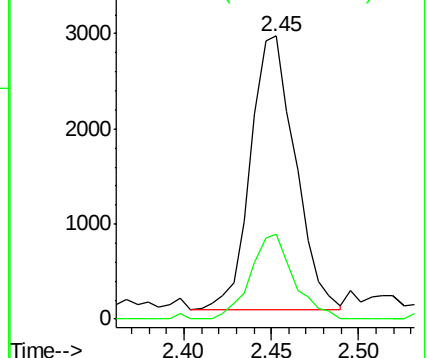
43 100

58 31.2 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.44 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003147.D

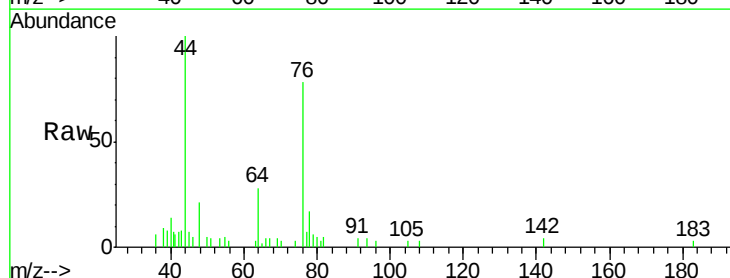
Acq: 03 Jul 2018 14:31

Tgt Ion: 76 Resp: 2991

Ion Ratio Lower Upper

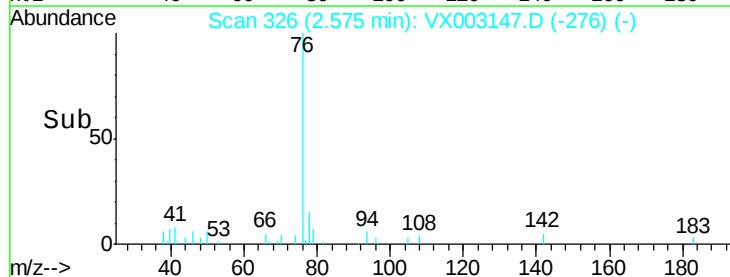
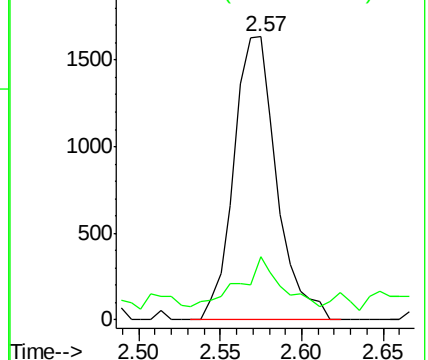
76 100

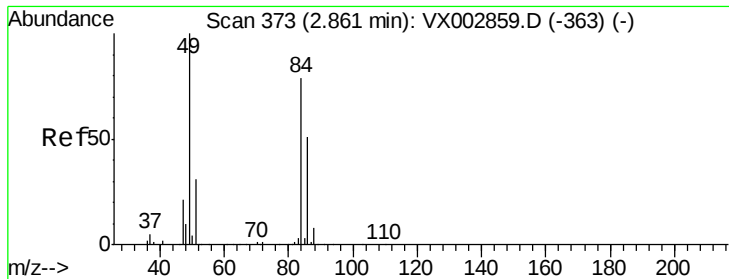
78 17.7 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

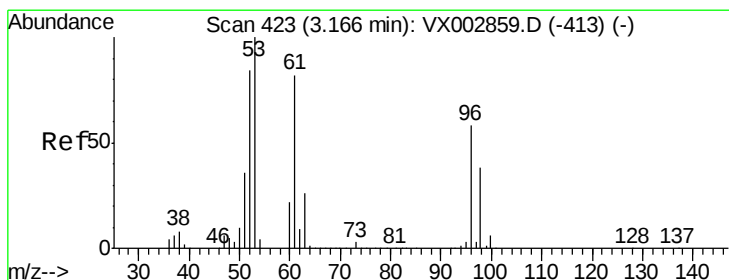
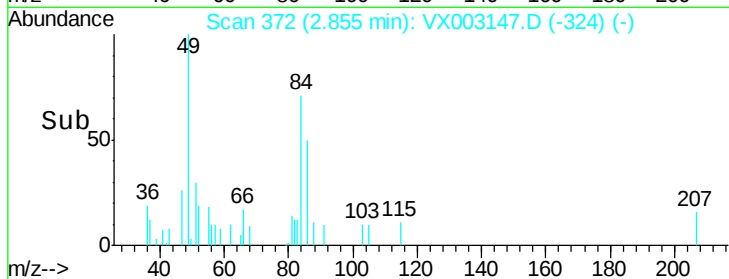
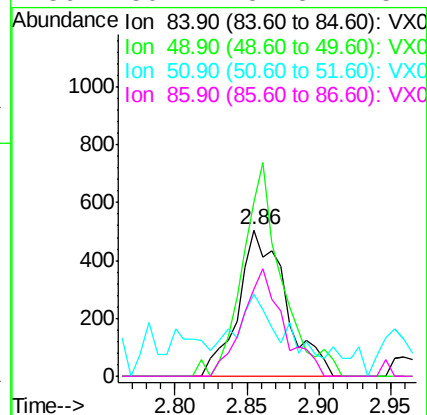
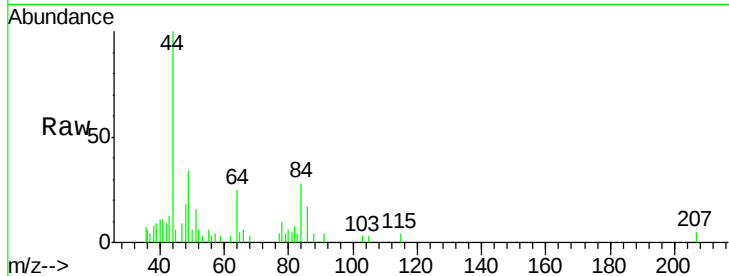




#20
Methylene Chloride
Concen: 0.40 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX003147.D
Acq: 03 Jul 2018 14:31

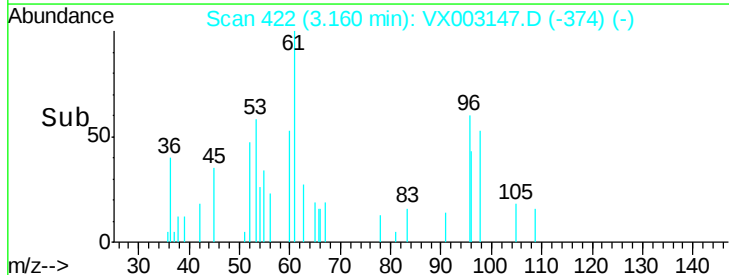
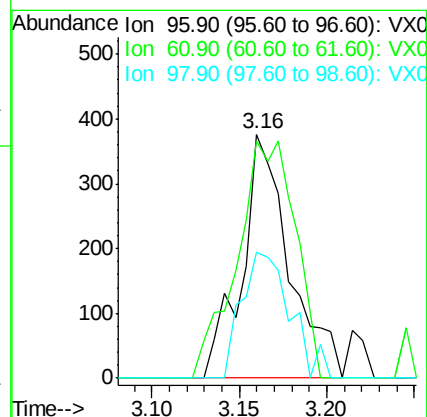
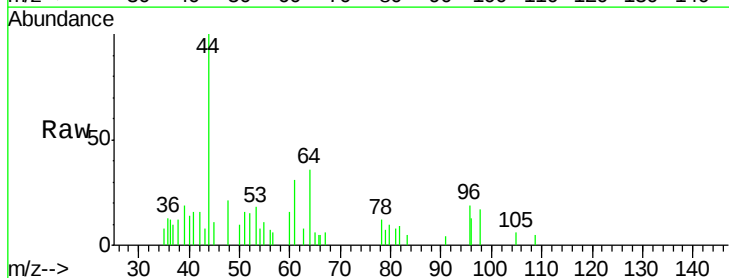
Instrument :
MSVOA_X
ClientSampled :

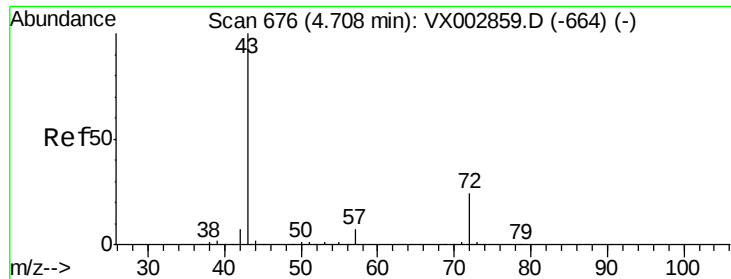
Tot Ion: 84 Resp: 1147
Ion Ratio Lower Upper
84 100
49 118.8 107.8 161.6
51 43.7 32.8 49.2
86 59.7 52.5 78.7



#21
trans-1,2-Dichloroethene
Concen: 0.26 ug/l
RT: 3.16 min Scan# 422
Delta R.T. -0.01 min
Lab File: VX003147.D
Acq: 03 Jul 2018 14:31

Tgt Ion: 96 Resp: 715
Ion Ratio Lower Upper
96 100
61 97.6 117.0 175.4#
98 51.9 52.4 78.6#





#25

2-Butanone

Concen: 0.34 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

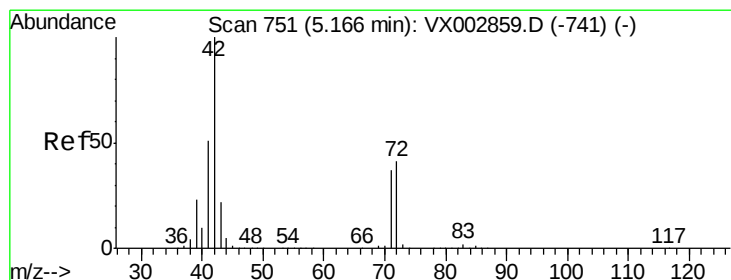
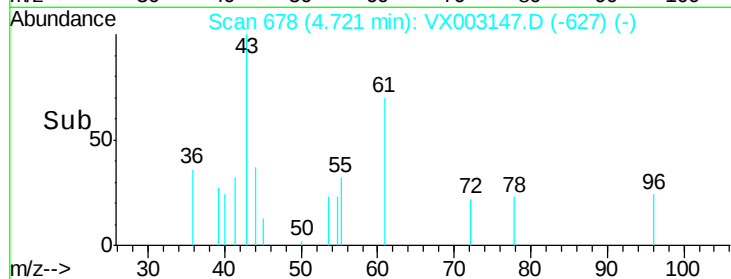
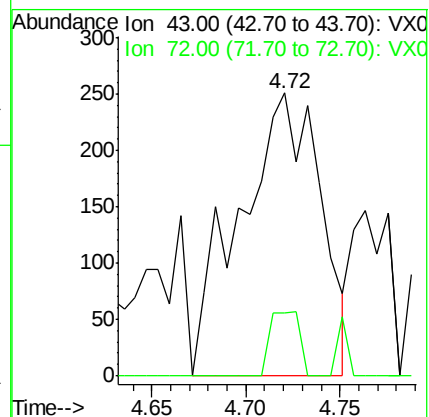
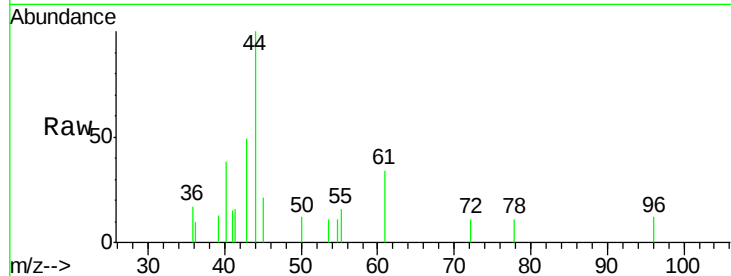
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 747

Ion Ratio Lower Upper

43 100

72 22.3 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.32 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

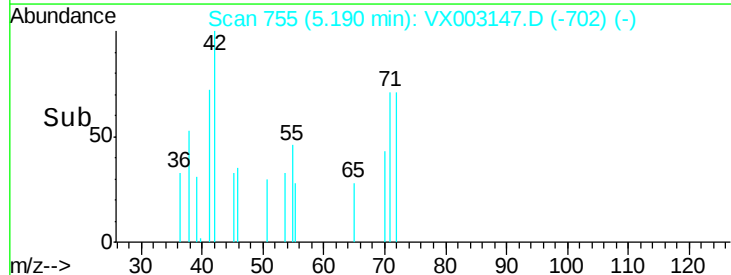
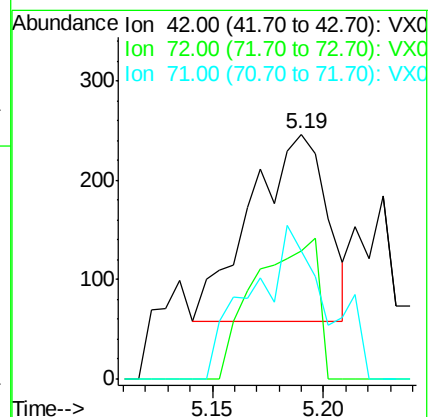
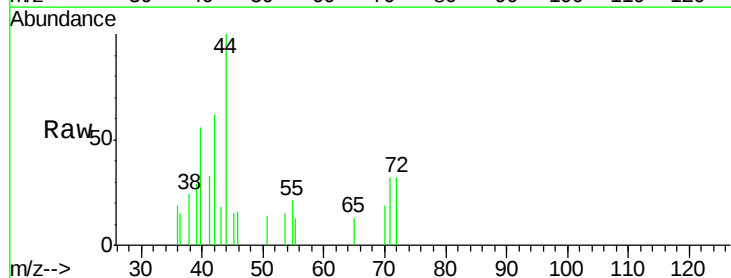
Tgt Ion: 42 Resp: 452

Ion Ratio Lower Upper

42 100

72 61.7 32.0 48.0#

71 79.9 30.1 45.1#

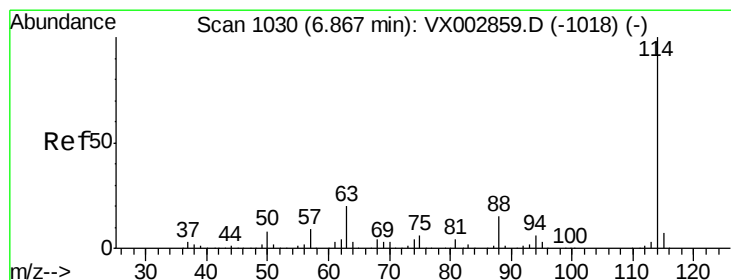
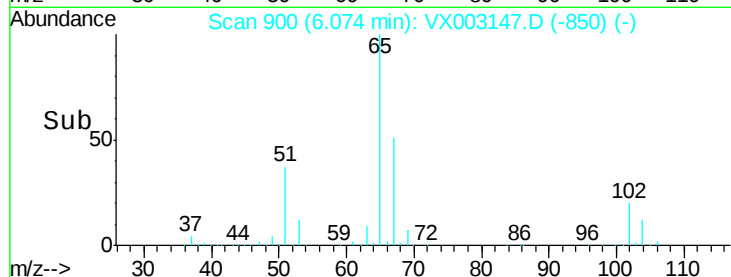
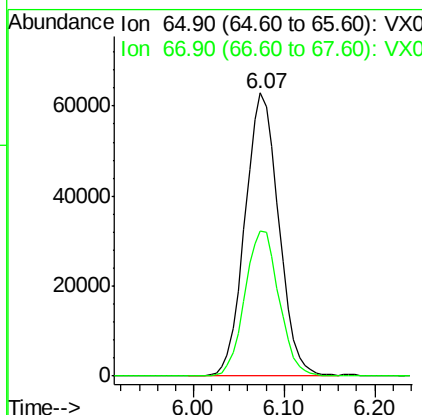
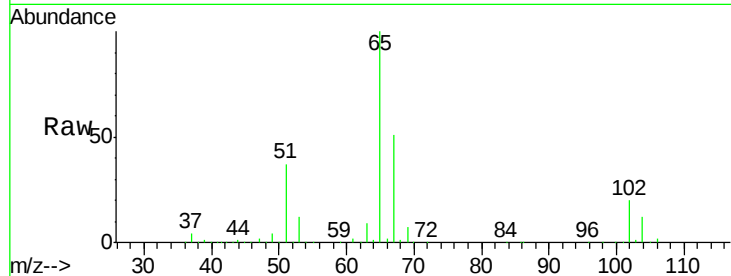




#33
 1,2-Dichloroethane-d4
 Concen: 45.61 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003147.D
 Acq: 03 Jul 2018 14:31

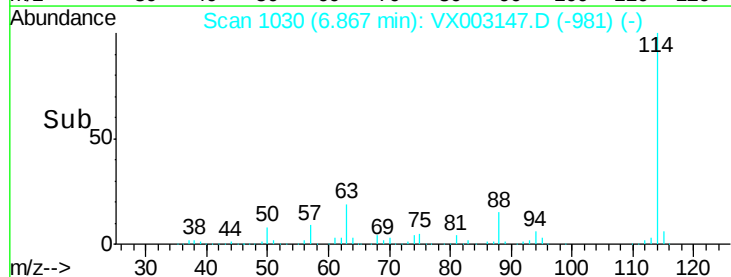
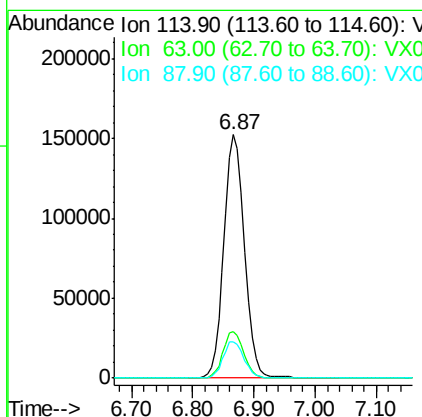
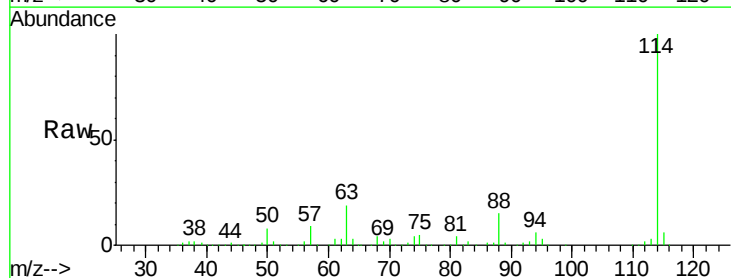
Instrument :
 MSVOA_X
 ClientSampleId :

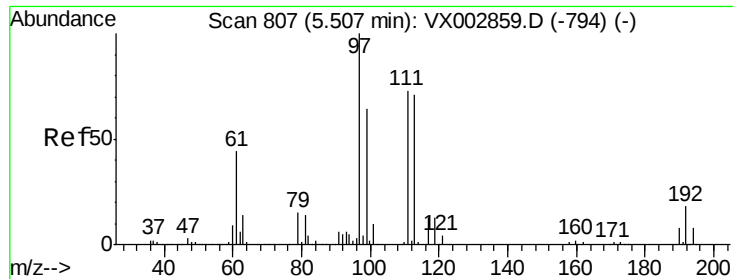
Tot Ion: 65 Resp: 162387
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003147.D
 Acq: 03 Jul 2018 14:31

Tgt Ion: 114 Resp: 354301
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 41.4
 88 14.8 0.0 30.0

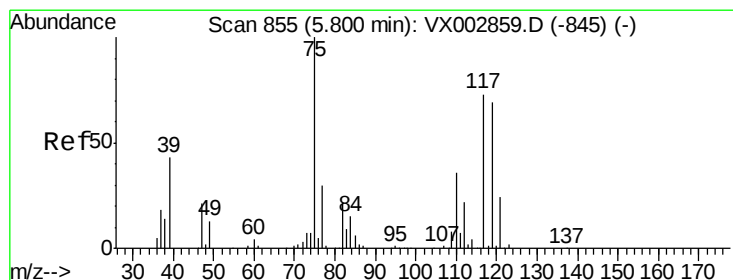
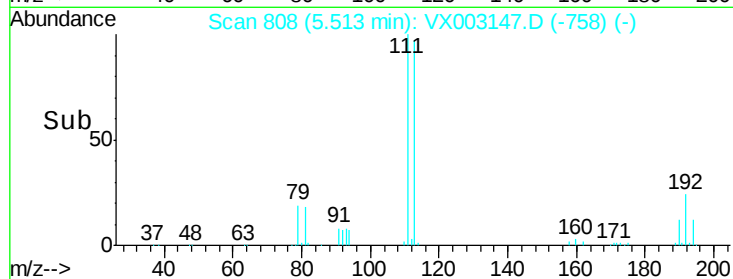
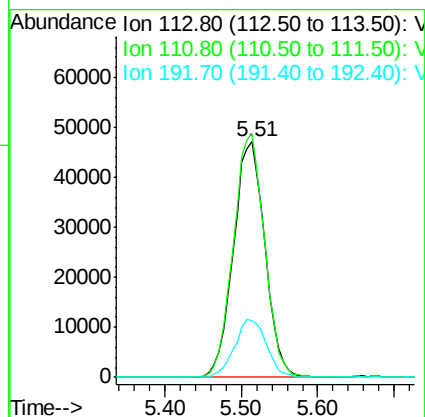
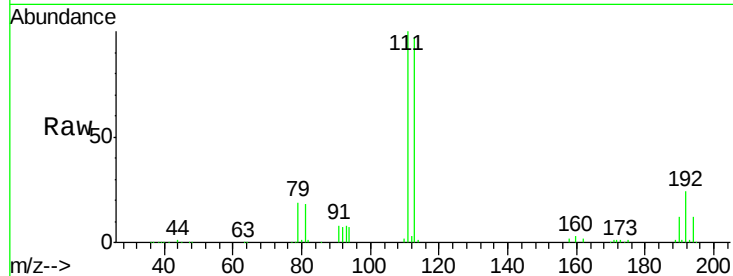




#35
Dibromofluoromethane
Concen: 47.99 ug/l
RT: 5.51 min Scan# 808
Delta R.T. 0.01 min
Lab File: VX003147.D
Acq: 03 Jul 2018 14:31

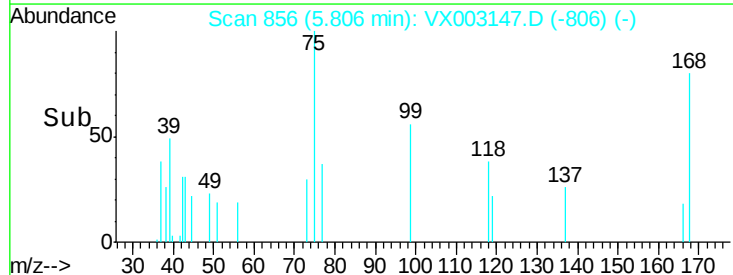
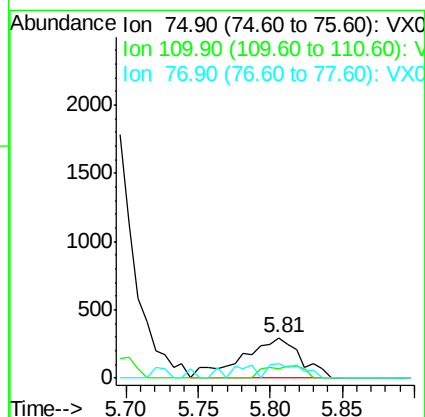
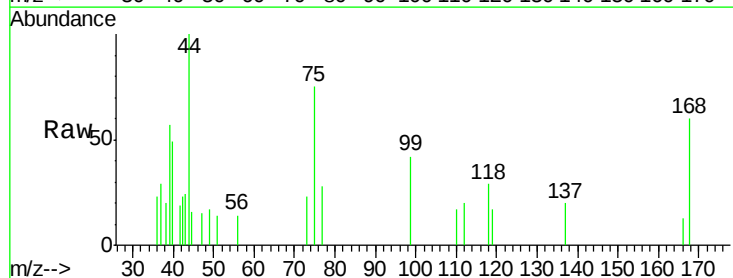
Instrument :
MSVOA_X
ClientSampleId :

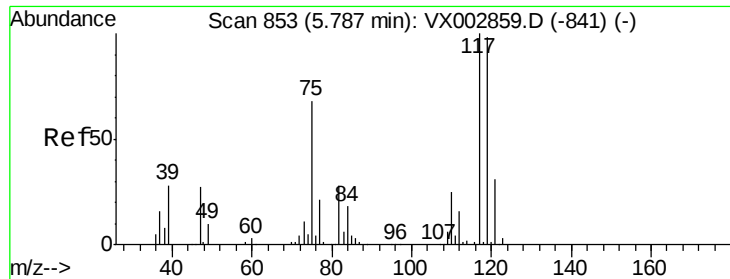
Tot Ion:113 Resp: 134655
Ion Ratio Lower Upper
113 100
111 102.2 81.4 122.0
192 24.9 19.1 28.7



#36
1,1-Dichloropropene
Concen: 0.21 ug/l
RT: 5.81 min Scan# 856
Delta R.T. 0.01 min
Lab File: VX003147.D
Acq: 03 Jul 2018 14:31

Tgt Ion: 75 Resp: 820
Ion Ratio Lower Upper
75 100
110 20.7 18.1 54.4
77 22.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.30 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

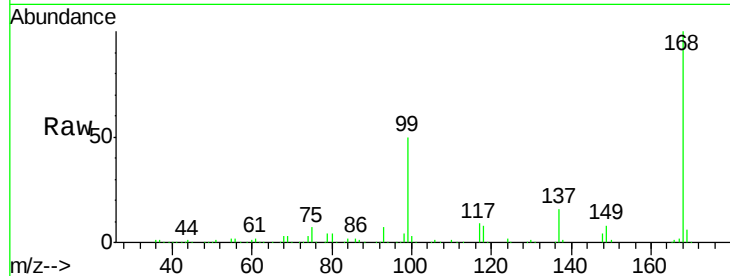
Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

Instrument :

MSVOA_X

ClientSampled :



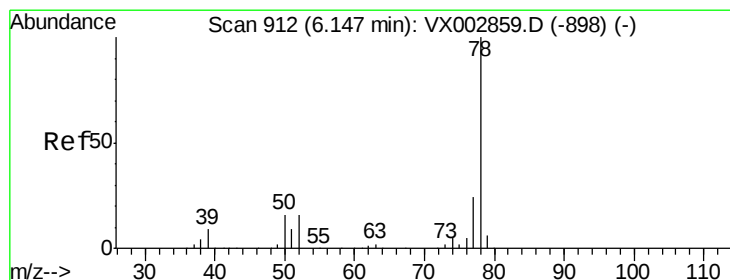
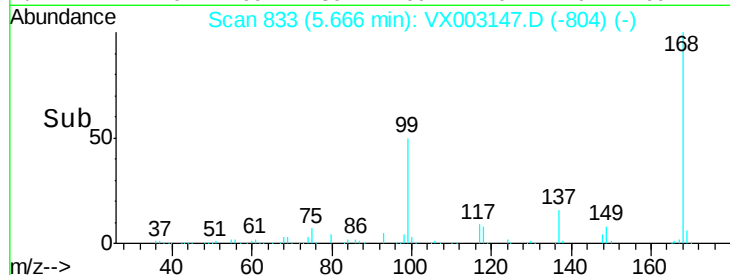
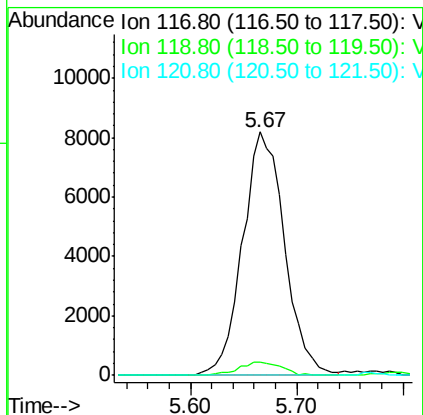
Tot Ion:117 Resp: 22605

Ion Ratio Lower Upper

117 100

119 5.3 77.4 116.0#

121 0.0 24.4 36.6#



#40

Benzene

Concen: 0.40 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX003147.D

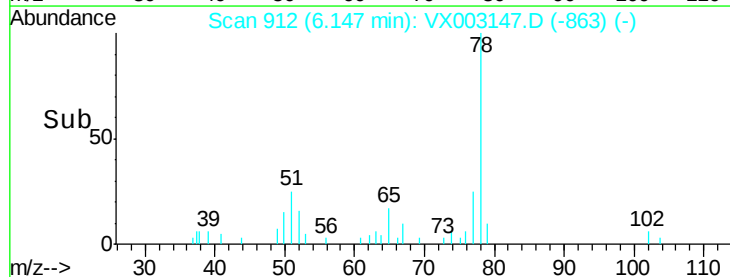
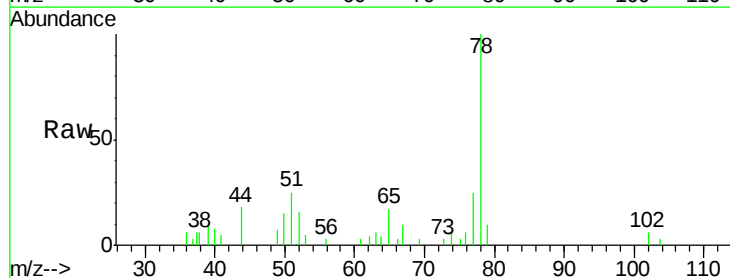
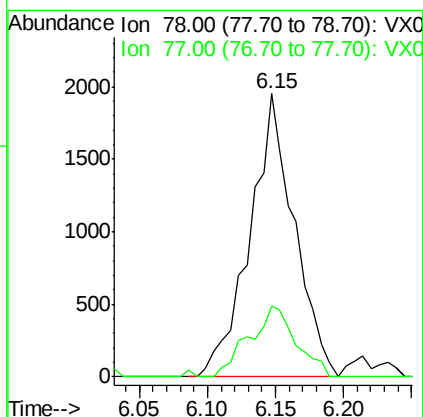
Acq: 03 Jul 2018 14:31

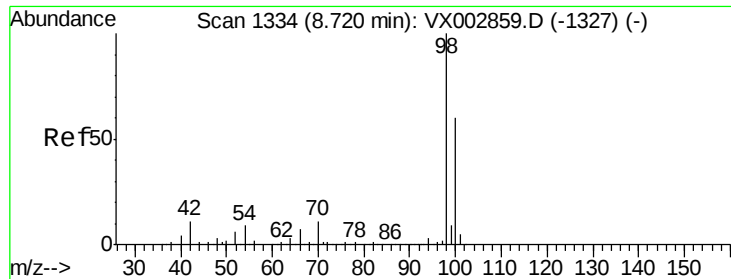
Tgt Ion: 78 Resp: 4460

Ion Ratio Lower Upper

78 100

77 24.9 19.1 28.7

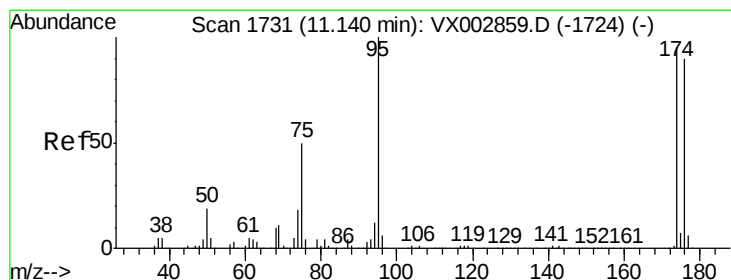
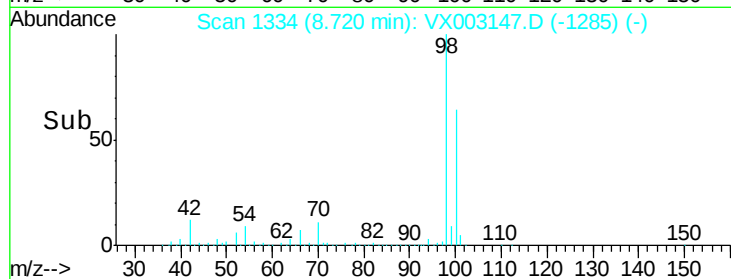
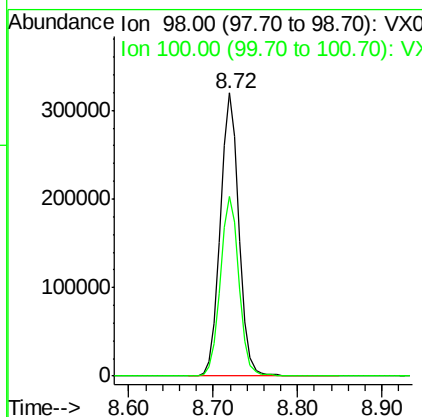
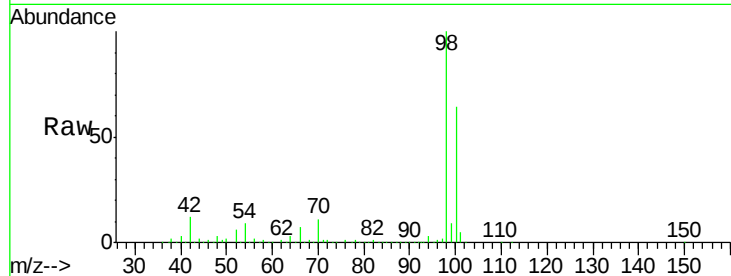




#50
Toluene-d8
Concen: 47.77 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003147.D
Acq: 03 Jul 2018 14:31

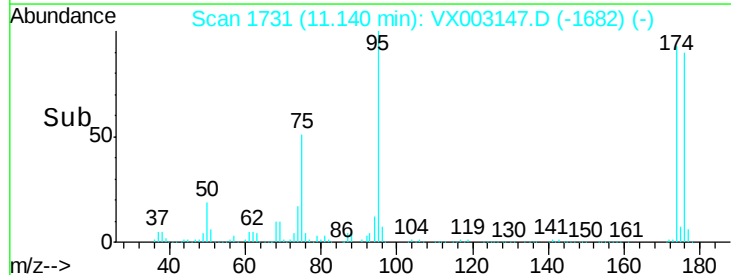
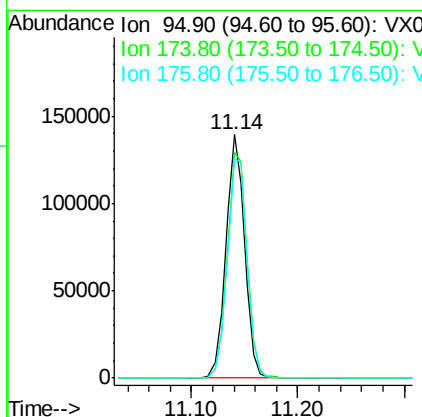
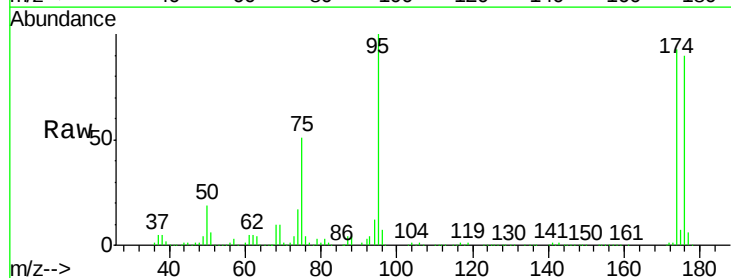
Instrument :
MSVOA_X
ClientSampleId :

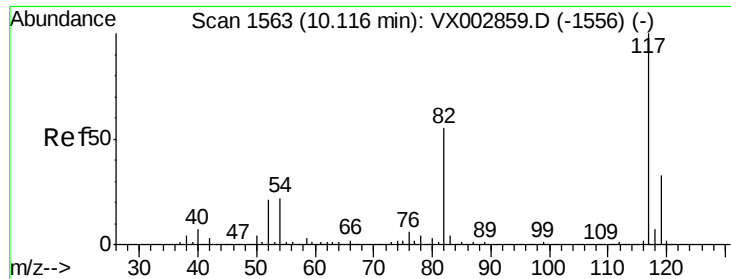
Tot Ion: 98 Resp: 489405
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 43.26 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003147.D
Acq: 03 Jul 2018 14:31

Tgt Ion: 95 Resp: 170938
Ion Ratio Lower Upper
95 100
174 98.3 0.0 187.4
176 96.0 0.0 181.0

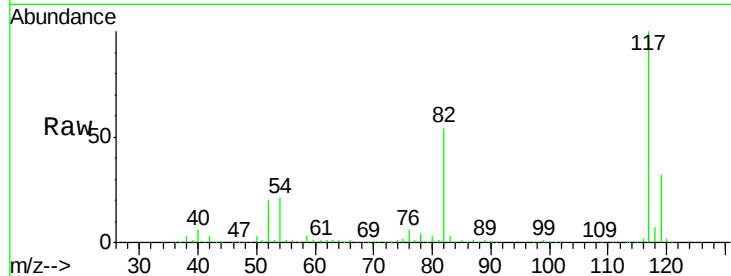




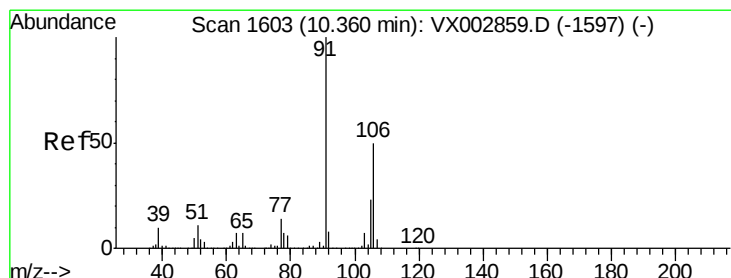
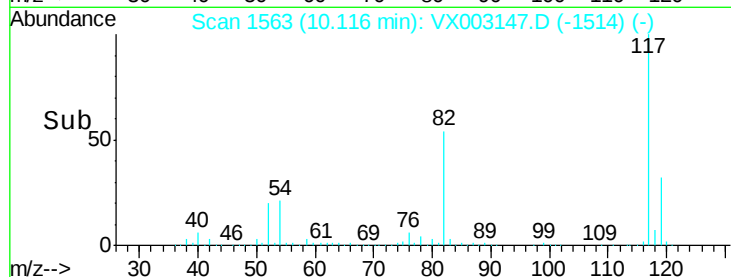
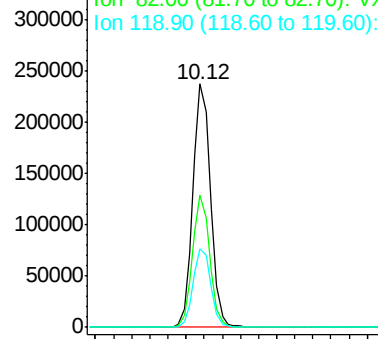
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003147.D
Acq: 03 Jul 2018 14:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 324558
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 32.0 25.8 38.6

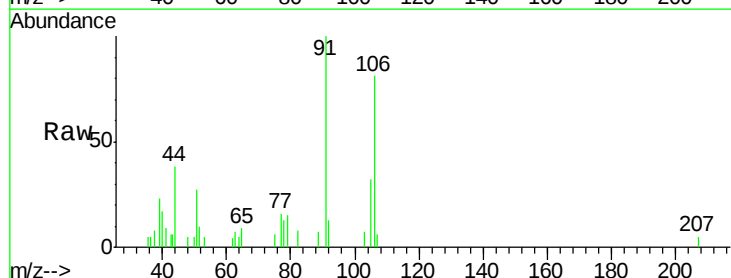


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

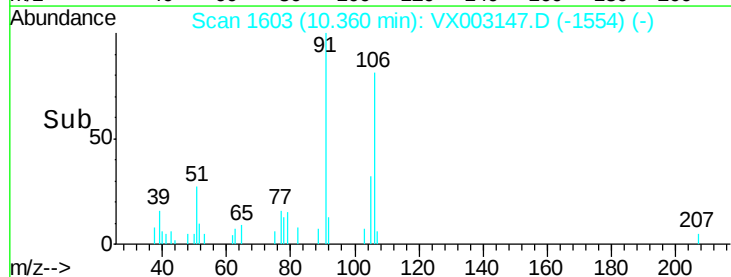
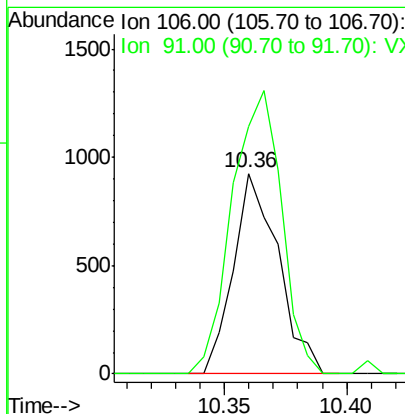


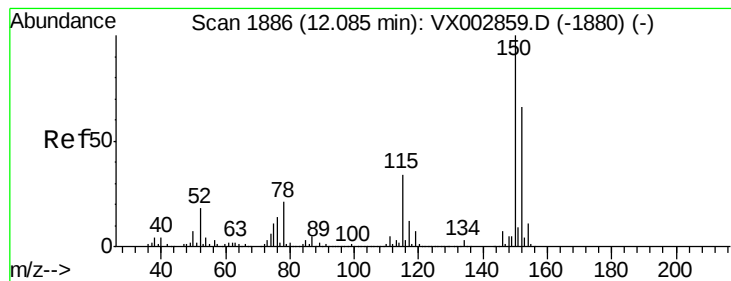
#68
m/p-Xylenes
Concen: 0.23 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX003147.D
Acq: 03 Jul 2018 14:31

Tgt Ion:106 Resp: 1184
Ion Ratio Lower Upper
106 100
91 155.6 163.4 245.2#



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: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

Instrument :

MSVOA_X

ClientSampleId :

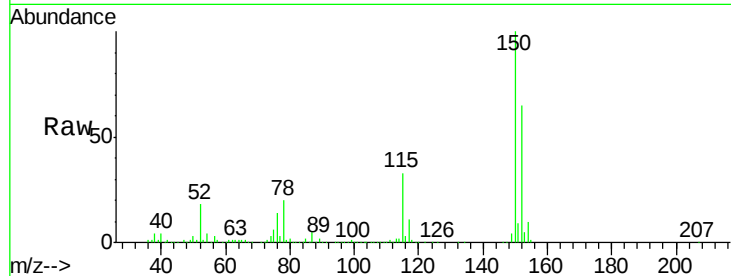
Tot Ion:152 Resp: 181381

Ion Ratio Lower Upper

152 100

115 53.6 40.1 120.2

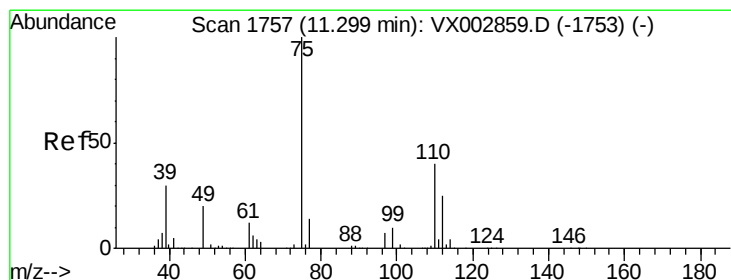
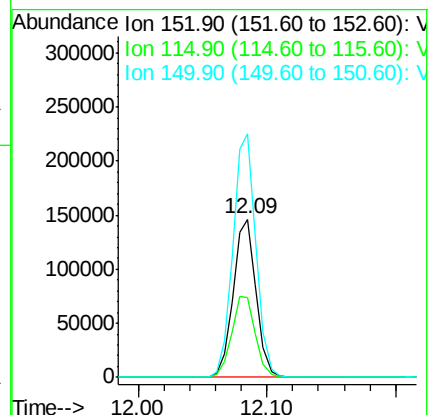
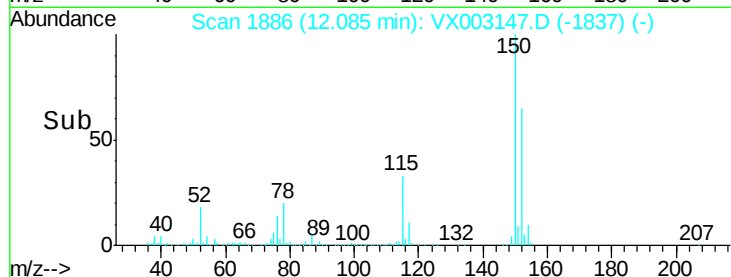
150 155.4 0.0 347.2



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: 26.50 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003147.D

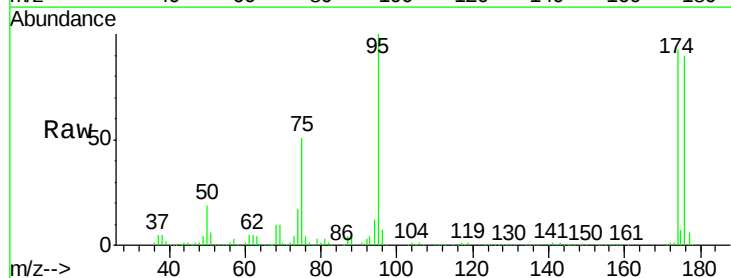
Acq: 03 Jul 2018 14:31

Tgt Ion: 75 Resp: 87057

Ion Ratio Lower Upper

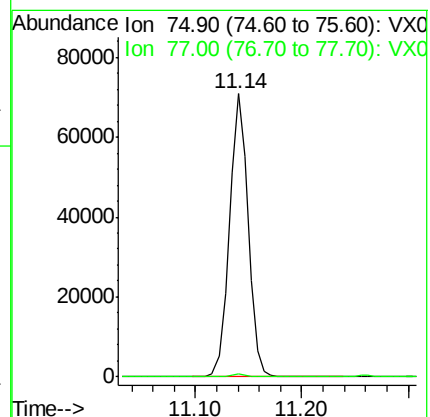
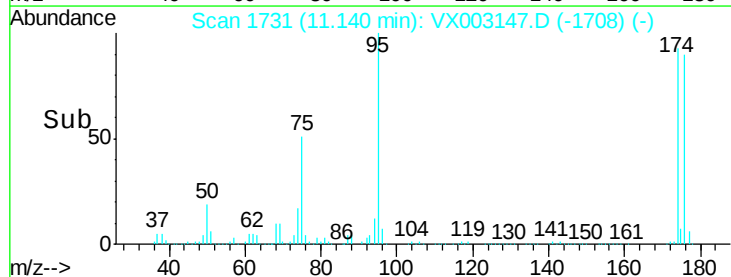
75 100

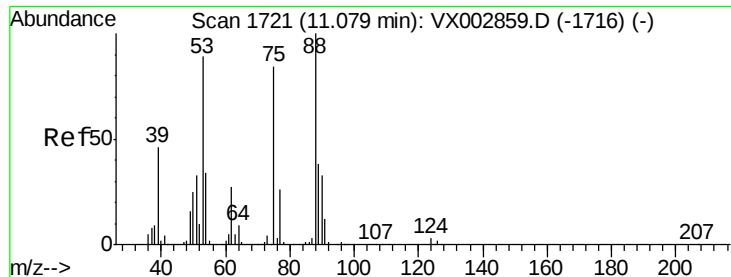
77 1.2 22.8 68.3#



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: 75.07 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

Instrument :

MSVOA_X

ClientSampled :

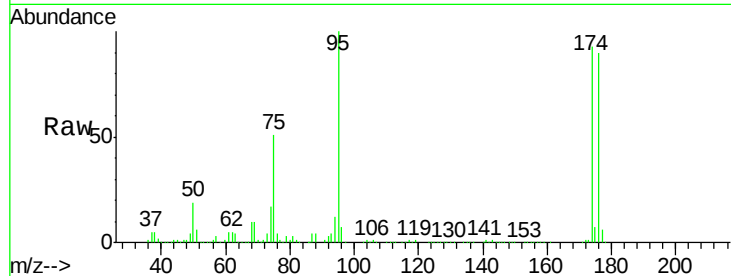
Tot Ion: 75 Resp: 87057

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

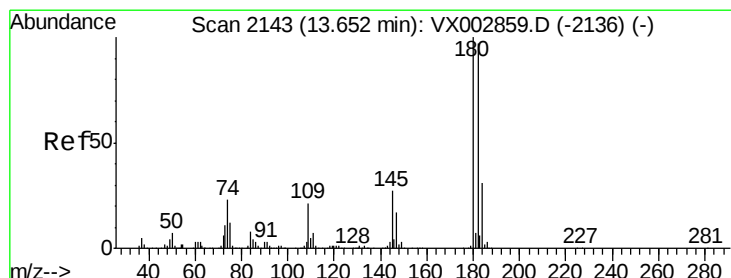
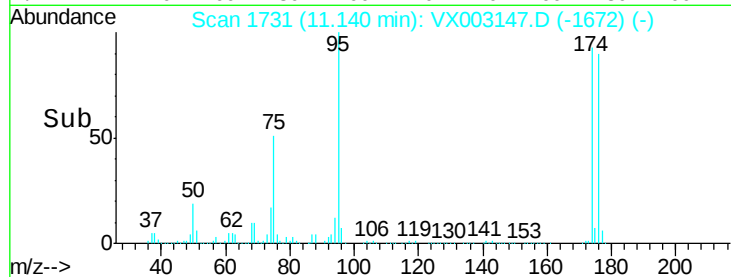
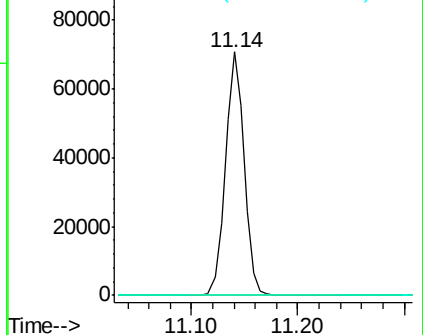
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.23 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. -0.01 min

Lab File: VX003147.D

Acq: 03 Jul 2018 14:31

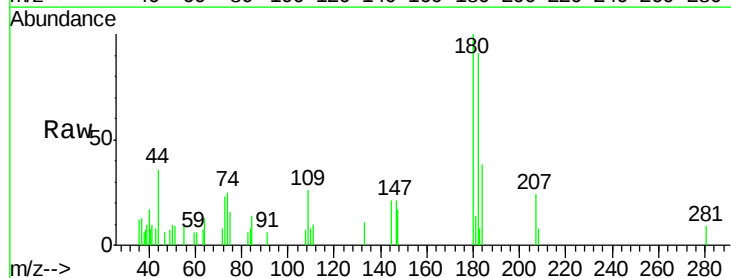
Tgt Ion:180 Resp: 1081

Ion Ratio Lower Upper

180 100

182 103.8 47.7 143.1

145 28.3 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

