

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072318\
 Data File : VX003602.D
 Acq On : 23 Jul 2018 14:16
 Operator : JC/SP
 Sample : J4083-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-6

Quant Time: Jul 24 01:41:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	243767	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	361891	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348123	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	186934	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	157805	54.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.38%	
35) Dibromofluoromethane	5.51	113	142594	51.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.46%	
50) Toluene-d8	8.72	98	517871	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	
62) 4-Bromofluorobenzene	11.14	95	176583	46.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.40%	

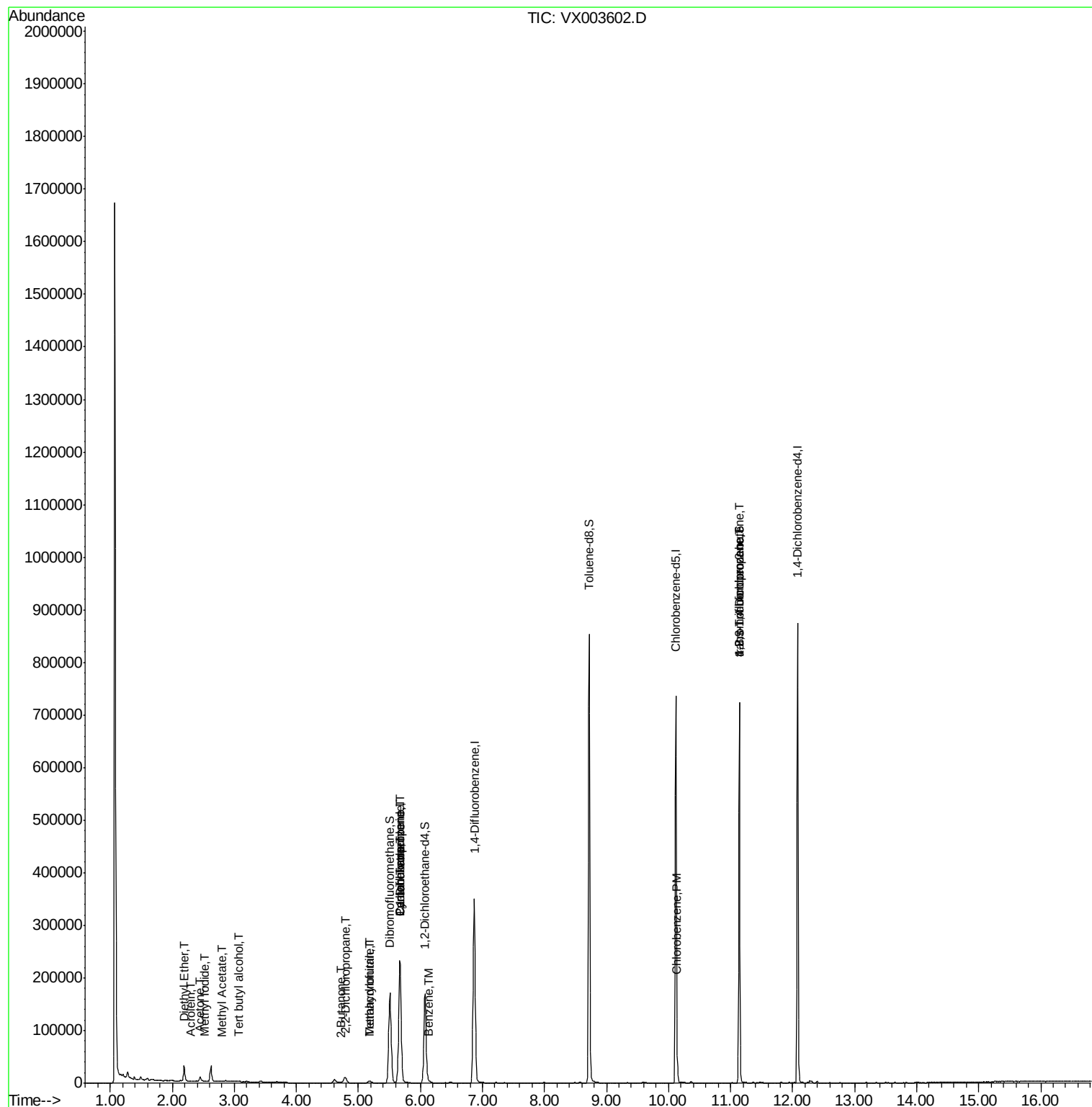
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	139	Below Cal	#	43
3) Chloromethane	1.32	50	546	Below Cal		96
5) Bromomethane	1.66	94	1244	Below Cal		90
8) Diethyl Ether	2.19	74	7926	4.467	ug/l	95
10) Methyl Iodide	2.53	142	867	0.267	ug/l	93
11) Tert butyl alcohol	3.07	59	2184	3.825	ug/l	96
13) Acrolein	2.30	56	258	1.000	ug/l #	5
16) Acetone	2.45	43	7778	7.136	ug/l #	89
18) Methyl Acetate	2.79	43	745	0.217	ug/l #	61
20) Methylene Chloride	2.86	84	458	Below Cal	#	76
25) 2-Butanone	4.72	43	1323	0.723	ug/l	93
26) 2,2-Dichloropropane	4.79	77	941	0.255	ug/l #	53
29) Tetrahydrofuran	5.18	42	3516	2.911	ug/l #	93
31) Cyclohexane	5.67	56	4120	0.948	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15369	3.933	ug/l #	50
38) Carbon Tetrachloride	5.67	117	21046	5.491	ug/l #	17
40) Benzene	6.14	78	3675	0.312	ug/l	96
41) Methacrylonitrile	5.17	41	1999	0.920	ug/l #	53
65) Chlorobenzene	10.14	112	10792	1.203	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	81846	24.372	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	81846	68.309	ug/l #	7

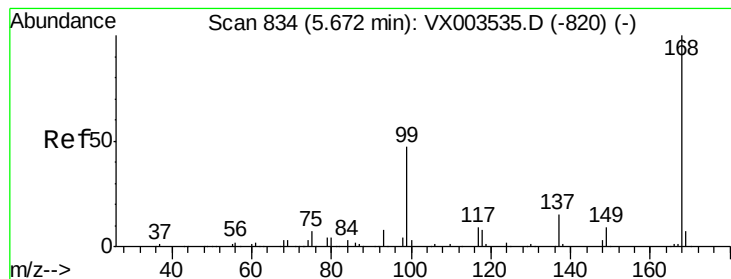
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

Instrument :

MSVOA_X

ClientSampled :

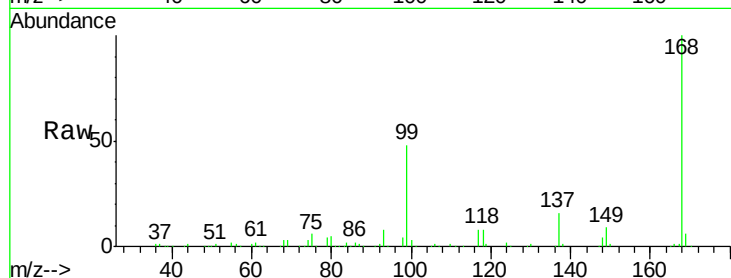
MH-6

Tgt Ion:168 Resp: 243767

Ion Ratio Lower Upper

168 100

99 48.0 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

80000

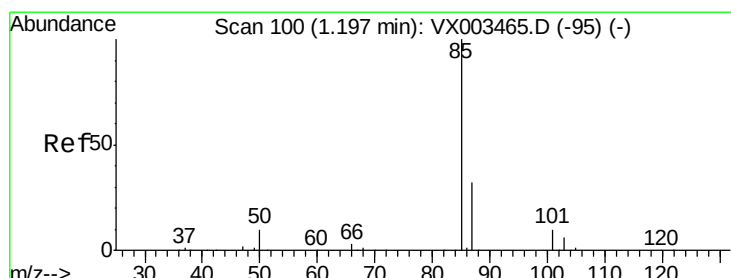
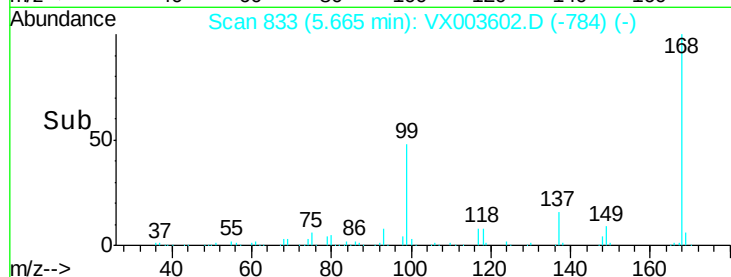
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003602.D

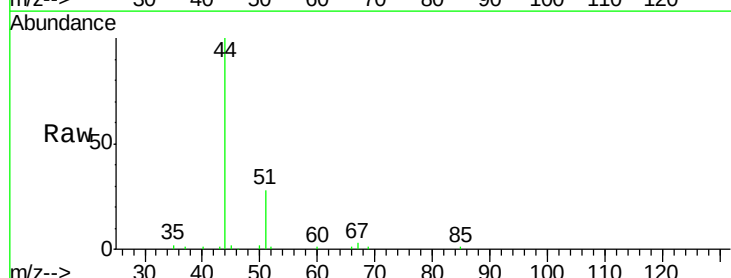
Acq: 23 Jul 2018 14:16

Tgt Ion: 85 Resp: 139

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

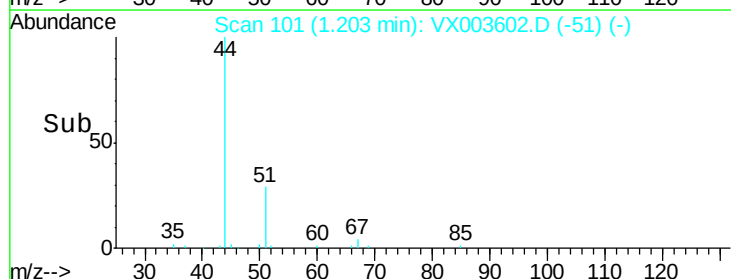
150

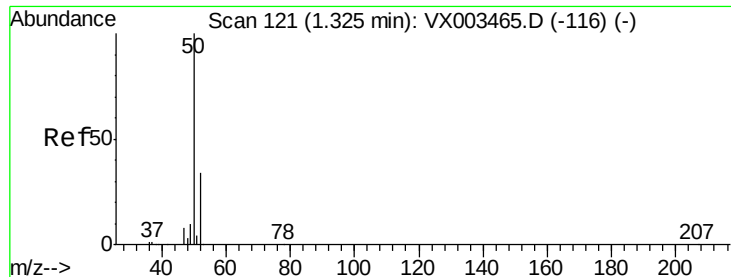
100

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: VX003602.D

Acq: 23 Jul 2018 14:16

Instrument :

MSVOA_X

ClientSampleId :

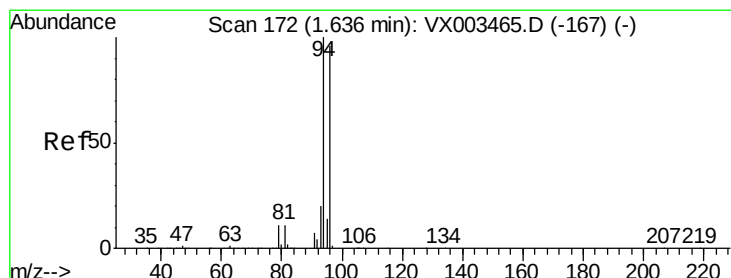
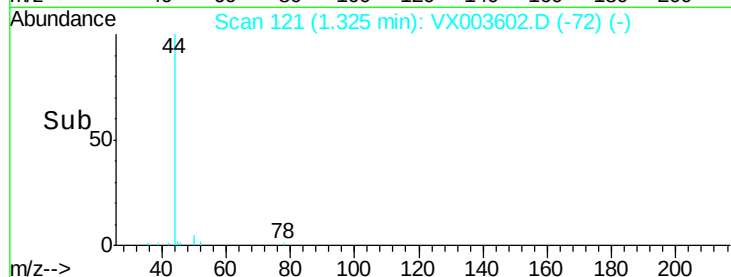
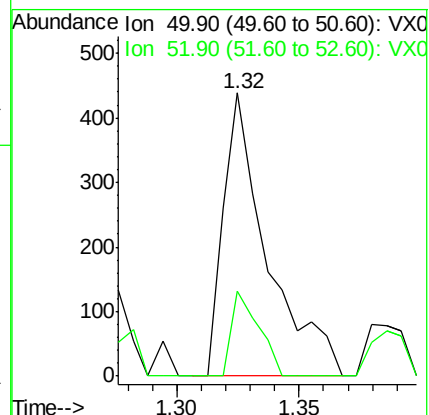
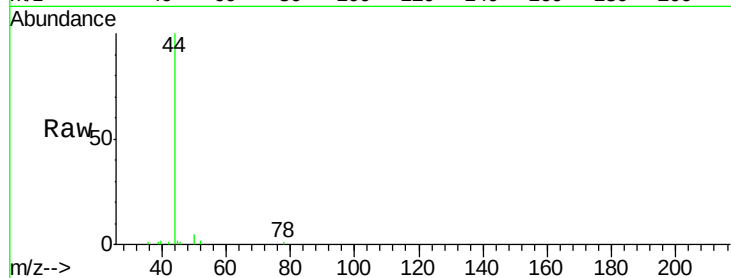
MH-6

Tgt Ion: 50 Resp: 546

Ion Ratio Lower Upper

50 100

52 29.9 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003602.D

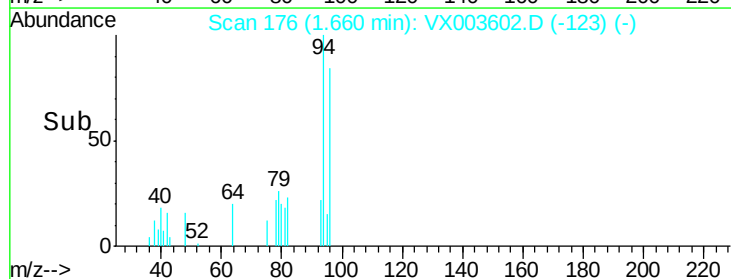
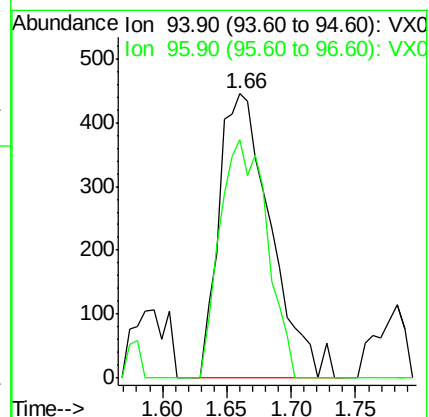
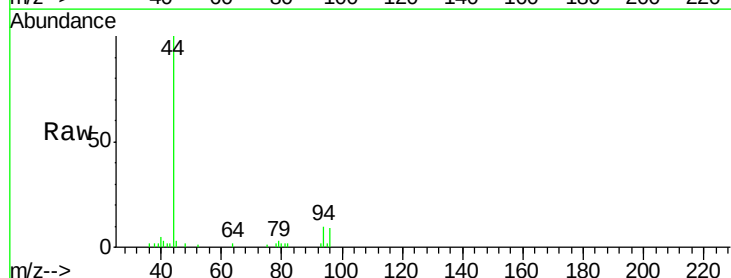
Acq: 23 Jul 2018 14:16

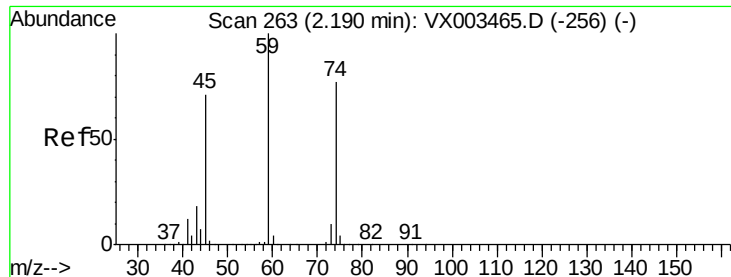
Tgt Ion: 94 Resp: 1244

Ion Ratio Lower Upper

94 100

96 83.9 74.9 112.3





#8

Diethyl Ether

Concen: 4.467 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

Instrument :

MSVOA_X

ClientSampleId :

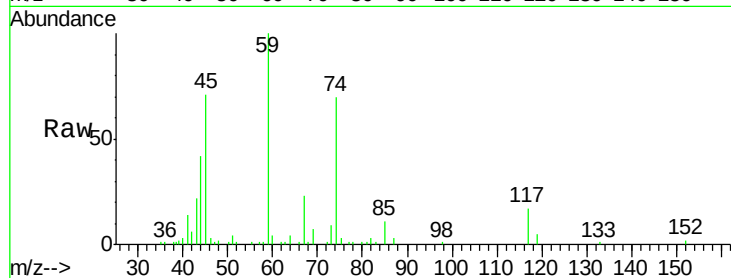
MH-6

Tgt Ion: 74 Resp: 7926

Ion Ratio Lower Upper

74 100

45 101.2 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

6000

5000

4000

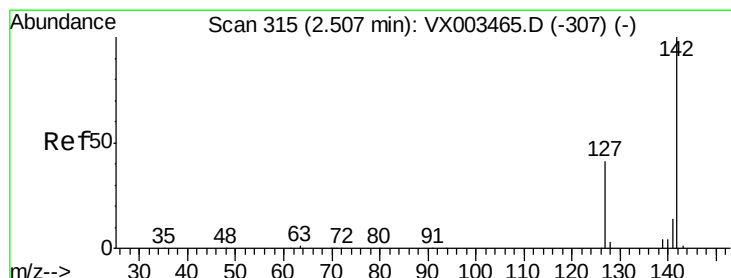
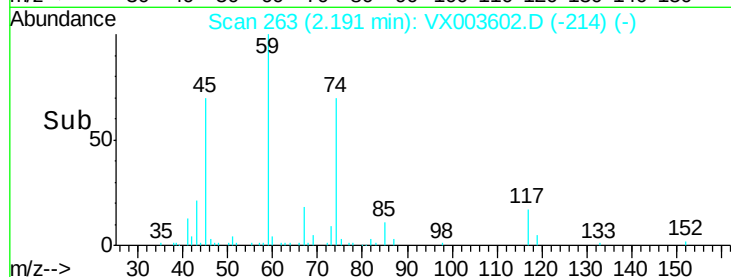
3000

2000

1000

0

Time--> 2.10 2.15 2.20 2.25 2.30



#10

Methyl Iodide

Concen: 0.267 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

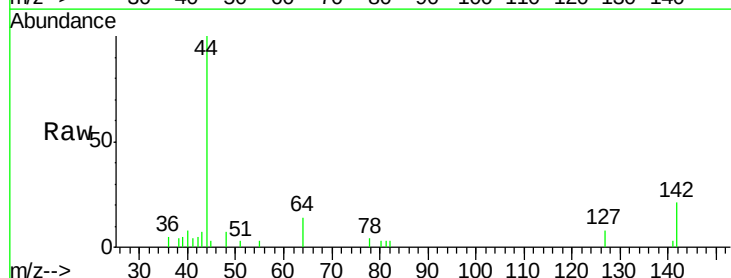
Tgt Ion: 142 Resp: 867

Ion Ratio Lower Upper

142 100

127 40.9 36.6 55.0

141 11.3 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

600

500

400

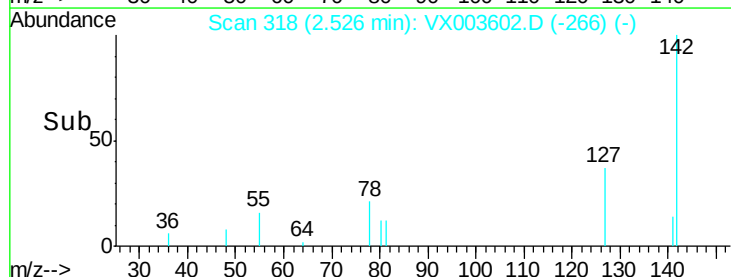
300

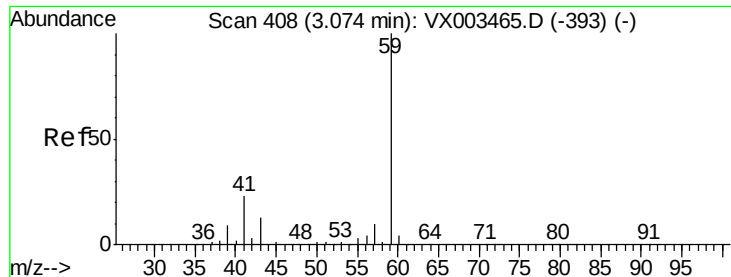
200

100

0

Time--> 2.45 2.50 2.55

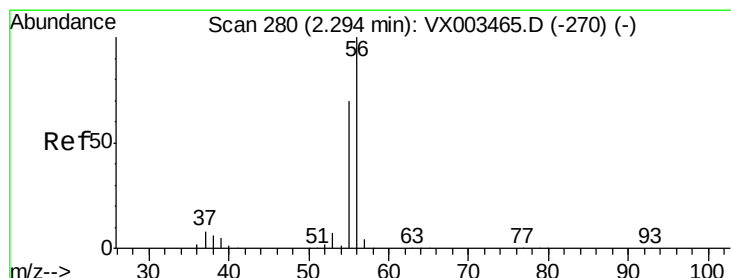
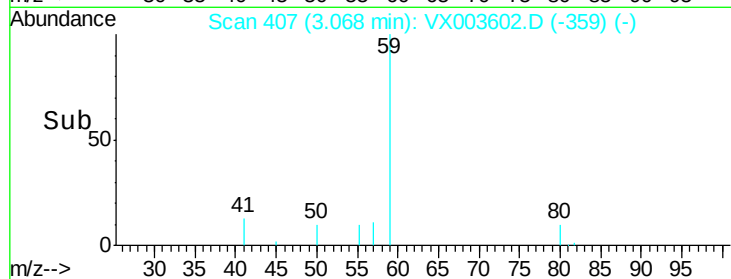
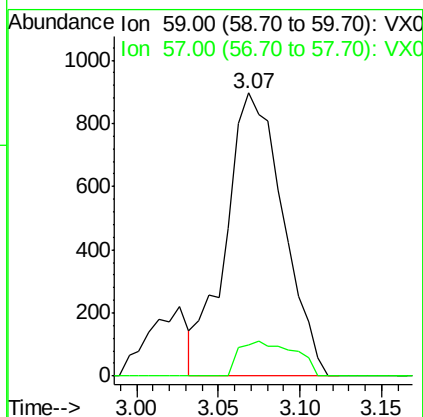
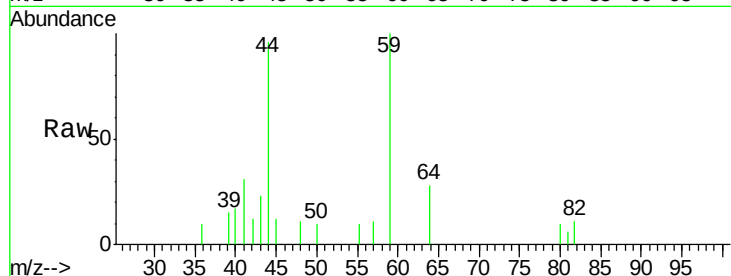




#11
Tert butyl alcohol
Concen: 3.825 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003602.D
Acq: 23 Jul 2018 14:16

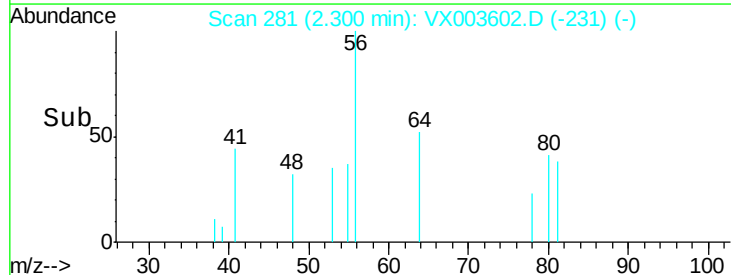
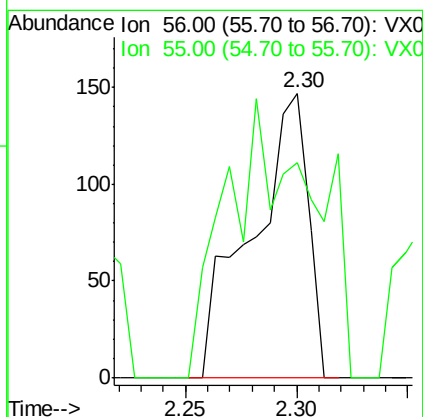
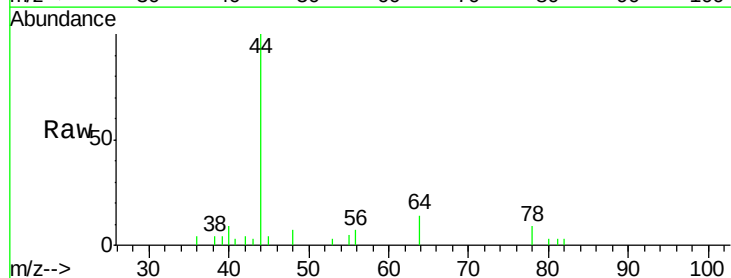
Instrument :
MSVOA_X
ClientSampled :
MH-6

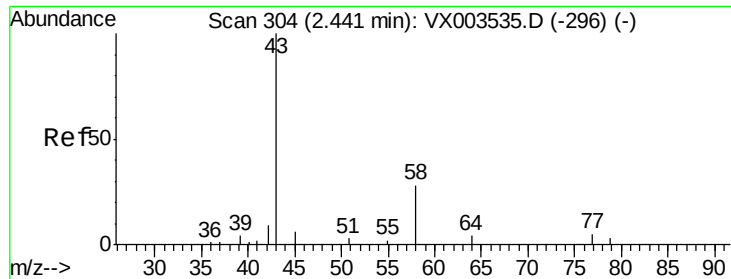
Tgt Ion: 59 Resp: 2184
Ion Ratio Lower Upper
59 100
57 11.9 8.2 12.2



#13
Acrolein
Concen: 1.000 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX003602.D
Acq: 23 Jul 2018 14:16

Tgt Ion: 56 Resp: 258
Ion Ratio Lower Upper
56 100
55 149.6 57.0 85.4#





#16

Acetone

Concen: 7.136 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

Instrument :

MSVOA_X

ClientSampled :

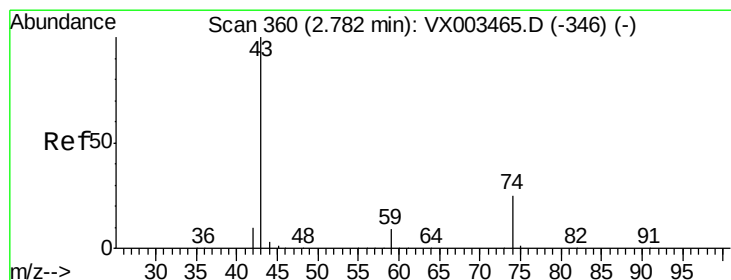
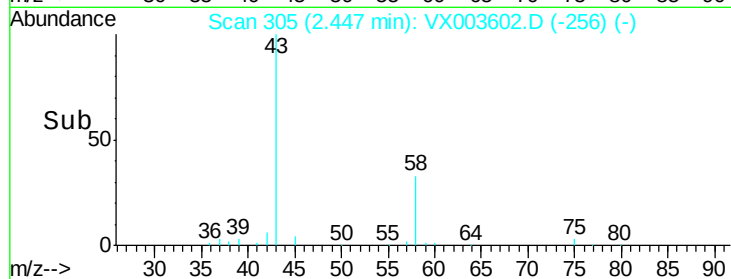
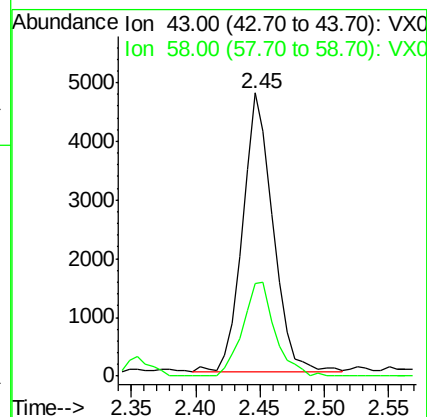
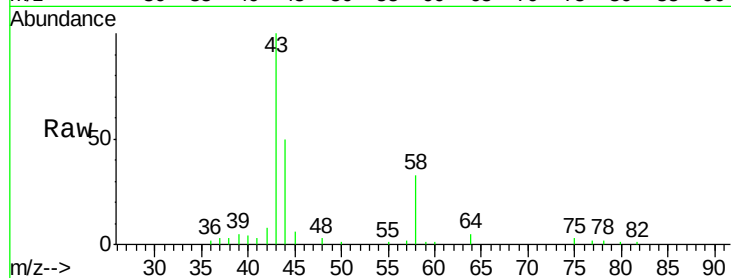
MH-6

Tgt Ion: 43 Resp: 7778

Ion Ratio Lower Upper

43 100

58 33.3 22.1 33.1#



#18

Methyl Acetate

Concen: 0.217 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX003602.D

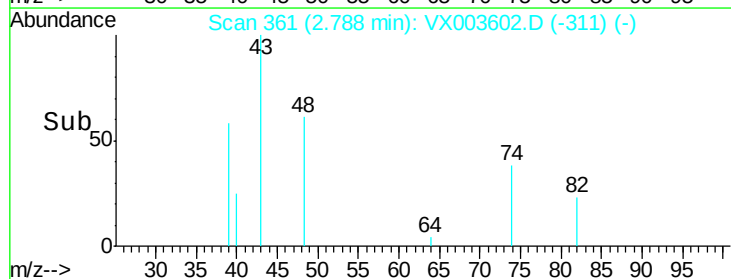
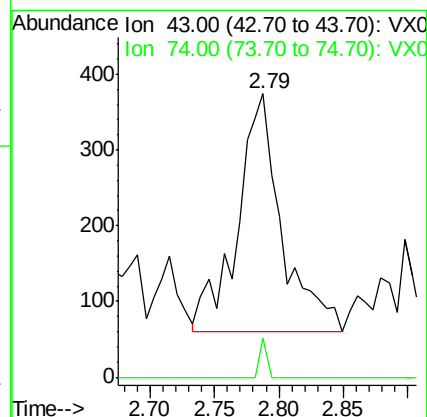
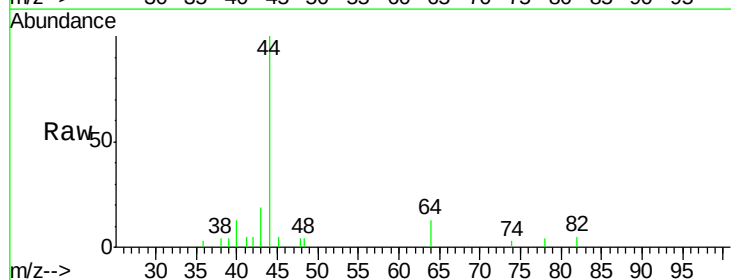
Acq: 23 Jul 2018 14:16

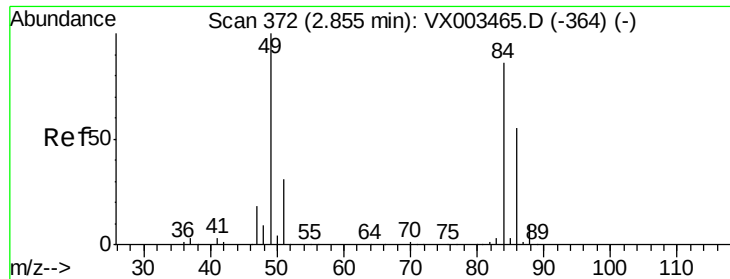
Tgt Ion: 43 Resp: 745

Ion Ratio Lower Upper

43 100

74 2.6 16.7 25.1#

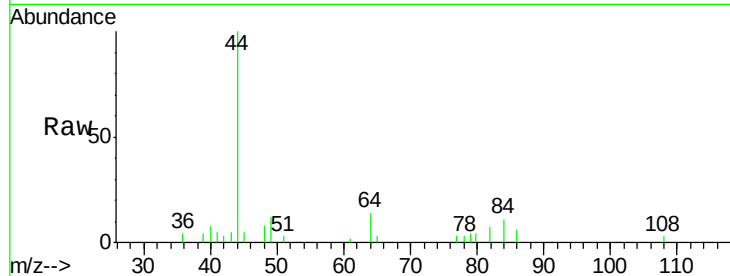




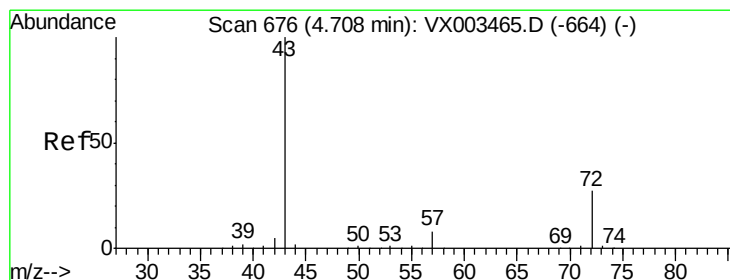
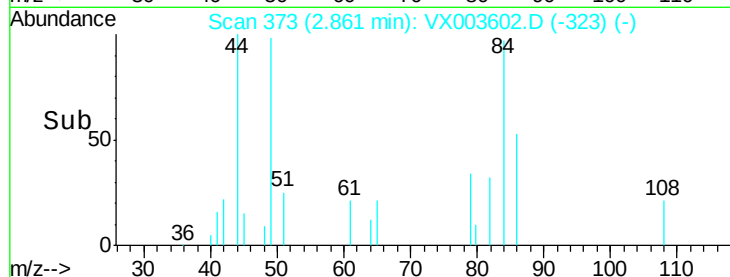
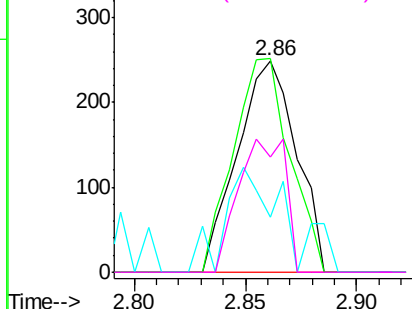
#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003602.D
Acq: 23 Jul 2018 14:16

Instrument :
MSVOA_X
ClientSampled :
MH-6

Tgt Ion: 84 Resp: 458
Ion Ratio Lower Upper
84 100
49 101.2 107.8 161.6#
51 26.1 32.8 49.2#
86 54.2 52.5 78.7

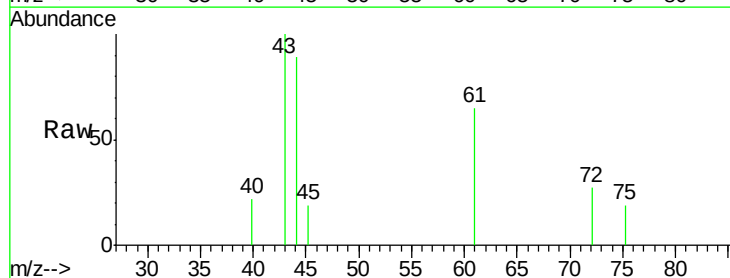


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

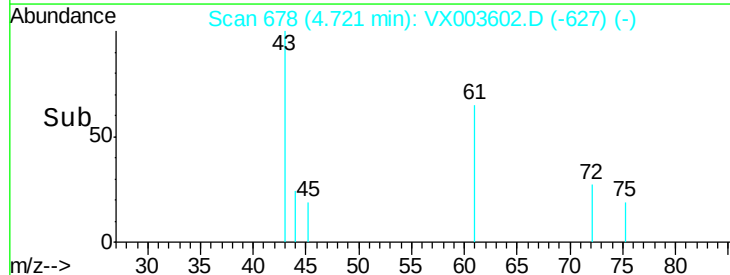
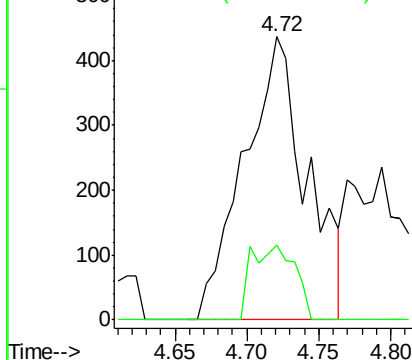


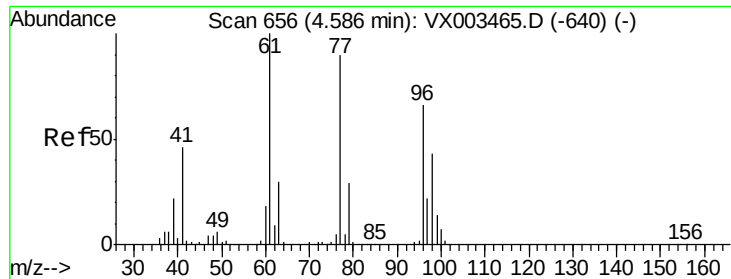
#25
2-Butanone
Concen: 0.723 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003602.D
Acq: 23 Jul 2018 14:16

Tgt Ion: 43 Resp: 1323
Ion Ratio Lower Upper
43 100
72 26.5 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

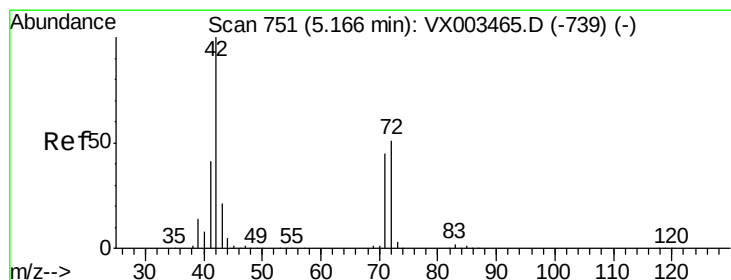
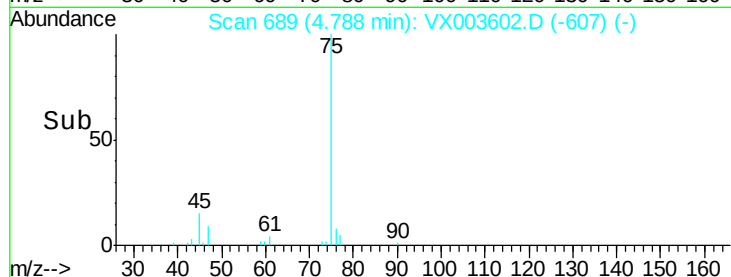
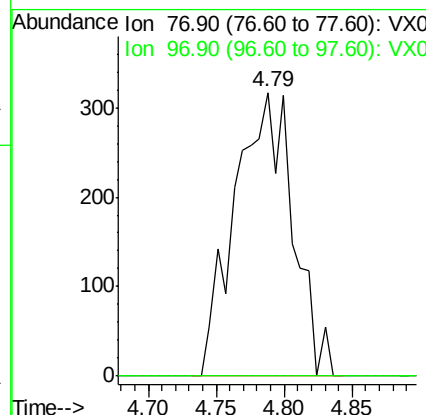
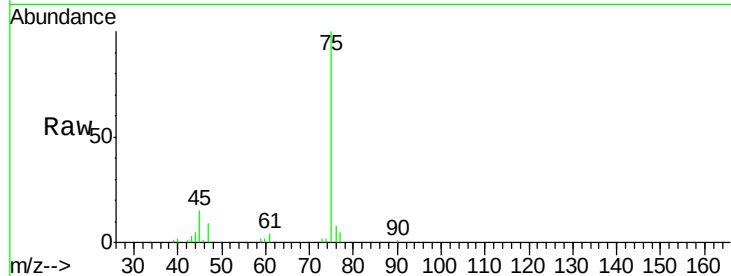




#26
 2,2-Dichloropropane
 Concen: 0.255 ug/l
 RT: 4.79 min Scan# 689
 Delta R.T. 0.20 min
 Lab File: VX003602.D
 Acq: 23 Jul 2018 14:16

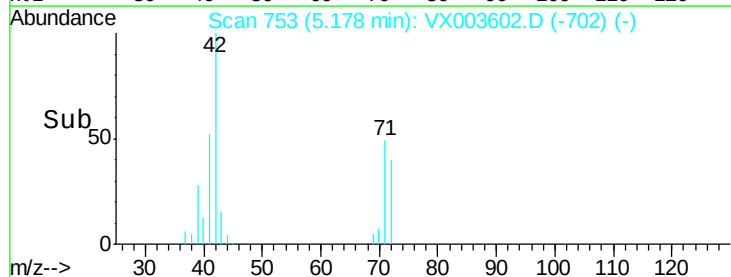
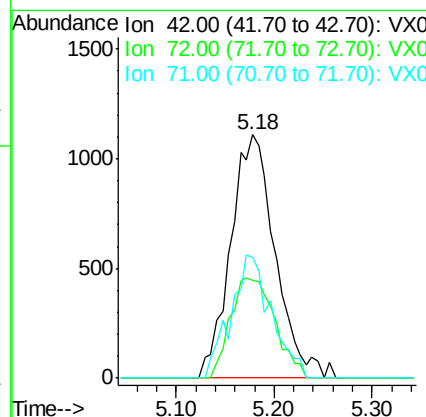
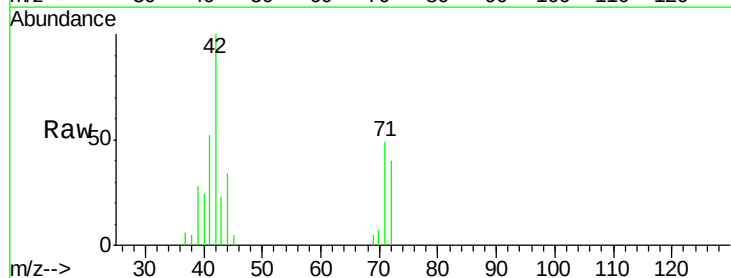
Instrument :
 MSVOA_X
 ClientSampled :
 MH-6

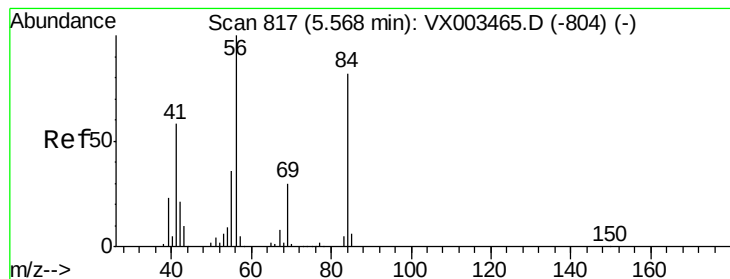
Tgt Ion: 77 Resp: 941
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.2 33.5#



#29
 Tetrahydrofuran
 Concen: 2.911 ug/l
 RT: 5.18 min Scan# 753
 Delta R.T. 0.01 min
 Lab File: VX003602.D
 Acq: 23 Jul 2018 14:16

Tgt Ion: 42 Resp: 3516
 Ion Ratio Lower Upper
 42 100
 72 41.0 32.0 48.0
 71 45.8 30.1 45.1#





#31

Cyclohexane

Concen: 0.948 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

Instrument :

MSVOA_X

ClientSampled :

MH-6

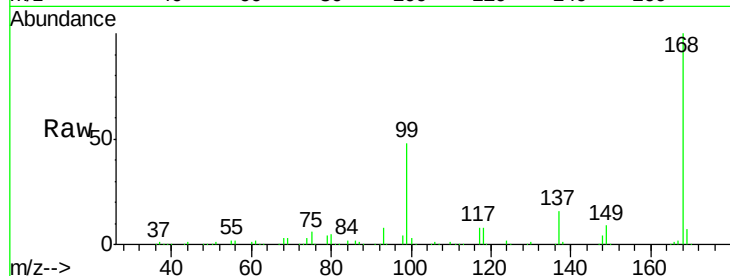
Tgt Ion: 56 Resp: 4120

Ion Ratio Lower Upper

56 100

69 179.4 23.7 35.5#

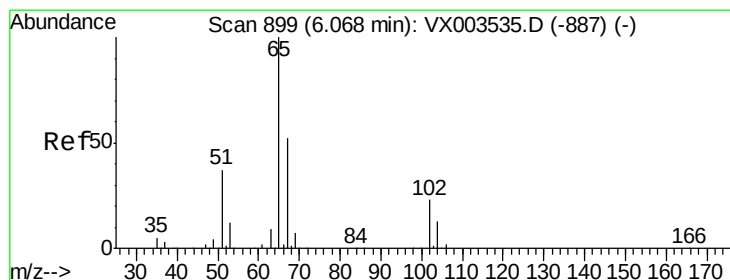
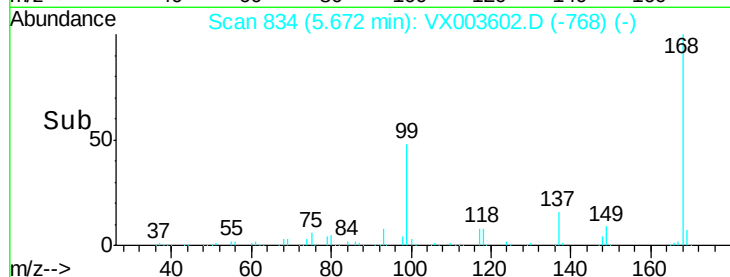
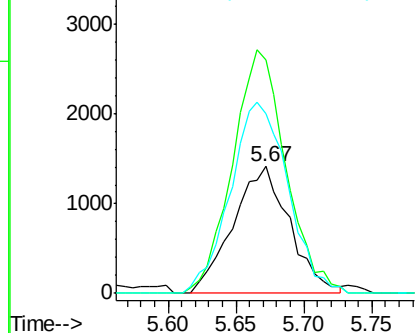
84 136.2 64.1 96.1#



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: 54.688 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003602.D

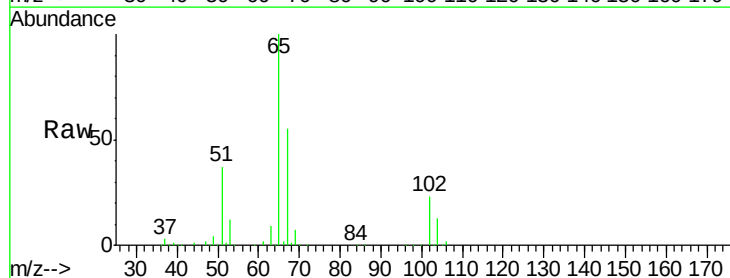
Acq: 23 Jul 2018 14:16

Tgt Ion: 65 Resp: 157805

Ion Ratio Lower Upper

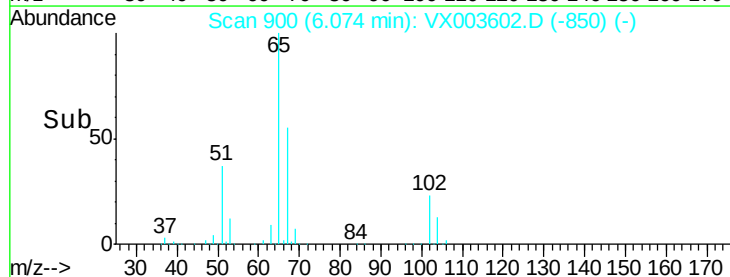
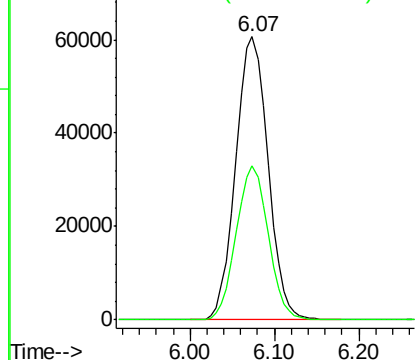
65 100

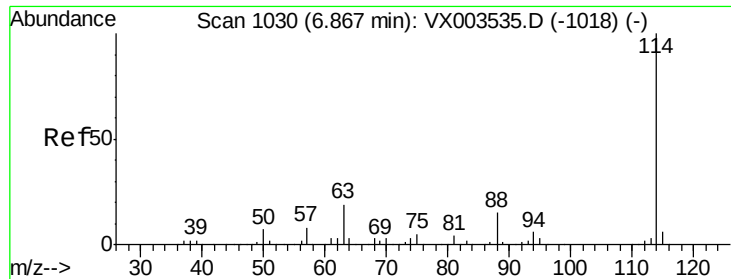
67 53.9 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

Instrument :

MSVOA_X

ClientSampleId :

MH-6

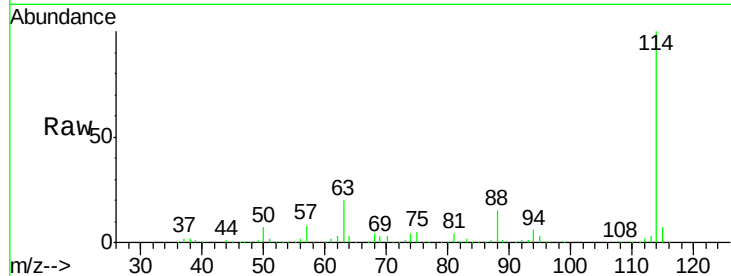
Tgt Ion:114 Resp: 361891

Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

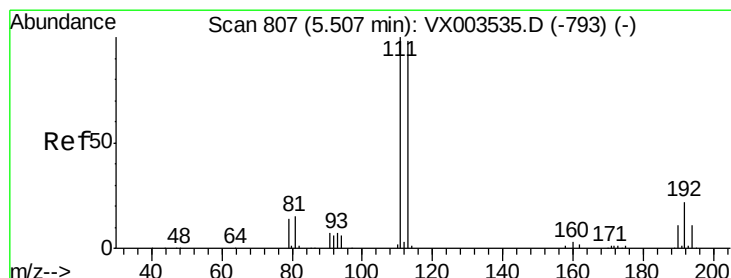
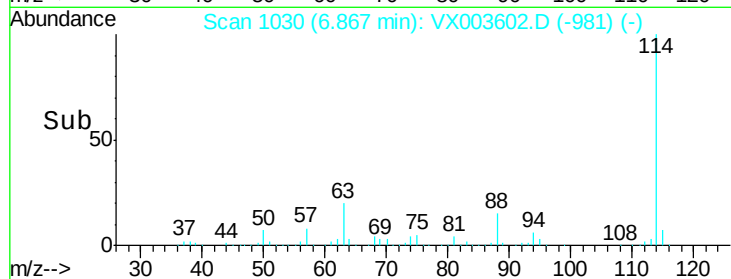
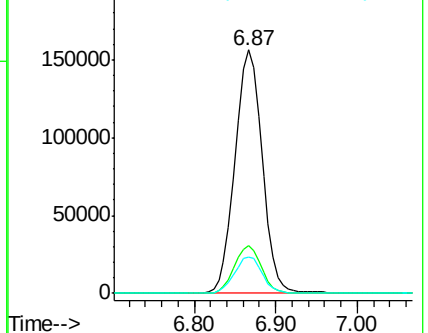
88 15.0 0.0 30.0



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: 51.732 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

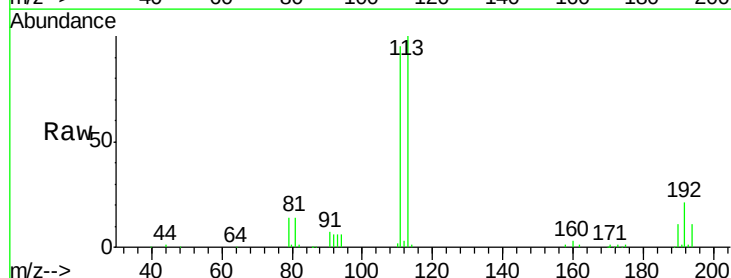
Tgt Ion:113 Resp: 142594

Ion Ratio Lower Upper

113 100

111 101.3 81.4 122.0

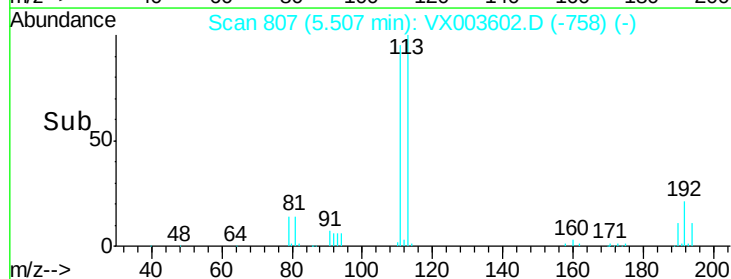
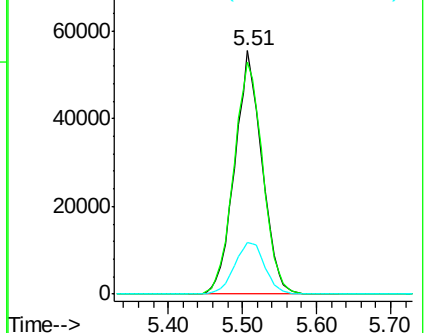
192 23.7 19.1 28.7

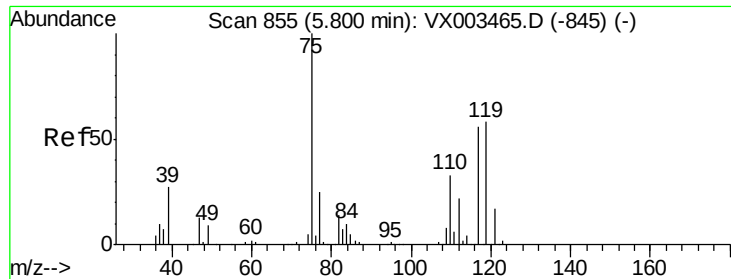


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

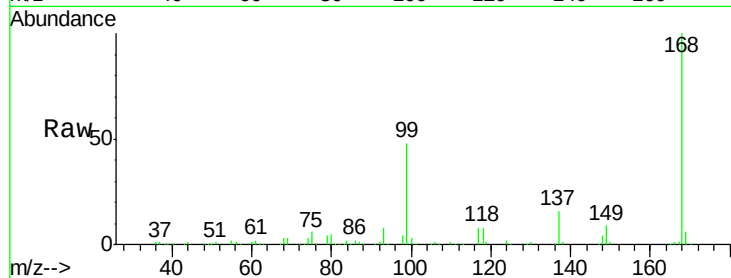




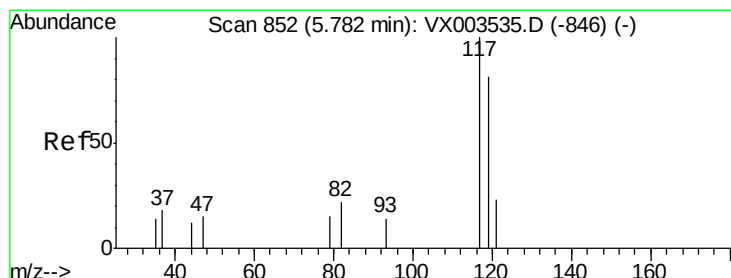
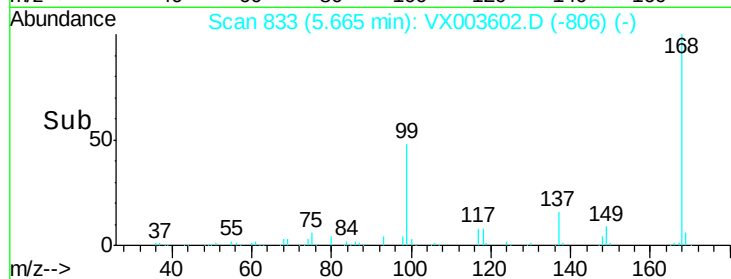
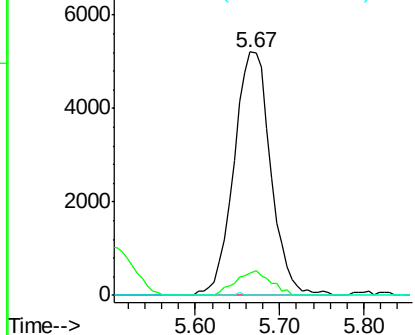
#36
 1,1-Dichloropropene
 Concen: 3.933 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003602.D
 Acq: 23 Jul 2018 14:16

Instrument :
 MSVOA_X
 ClientSampled :
 MH-6

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.1	54.4#
77	0.1	24.3	36.5#

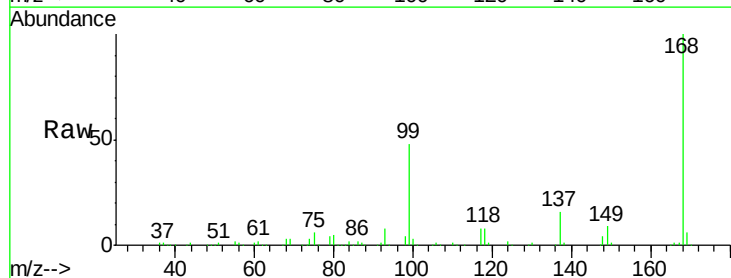


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

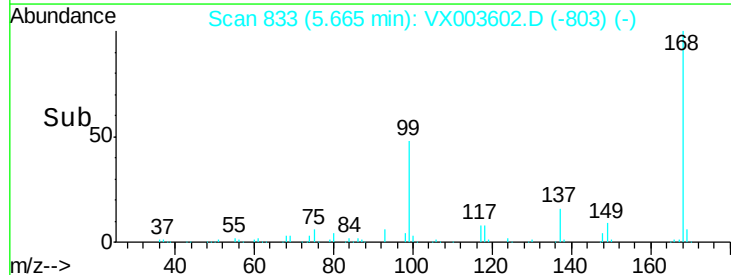
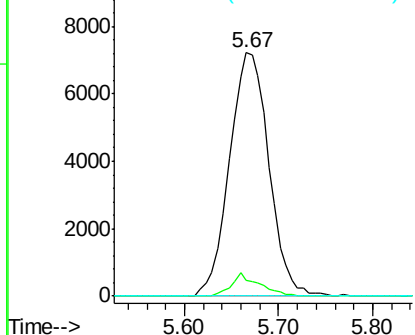


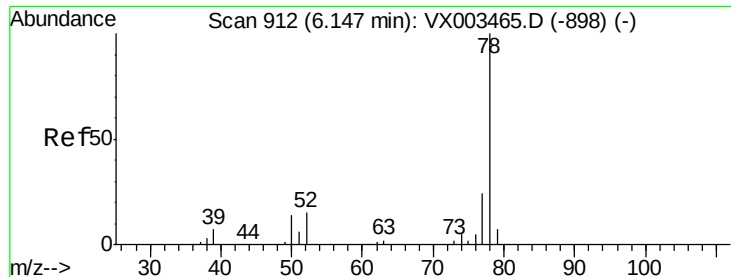
#38
 Carbon Tetrachloride
 Concen: 5.491 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003602.D
 Acq: 23 Jul 2018 14:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	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





#40

Benzene

Concen: 0.312 ug/l

RT: 6.14 min Scan# 911

Delta R.T. -0.01 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

Instrument :

MSVOA_X

ClientSampleId :

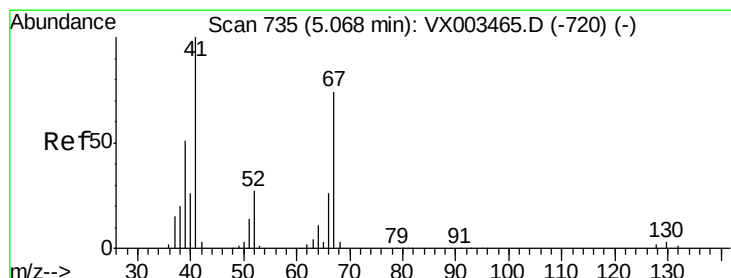
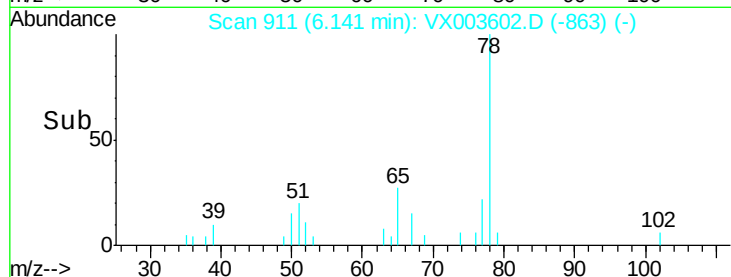
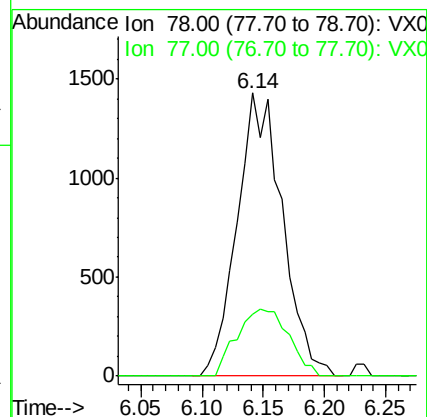
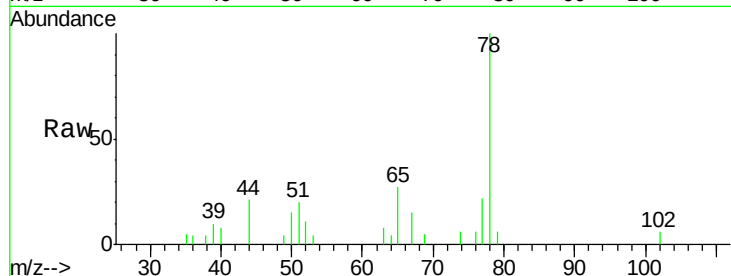
MH-6

Tgt Ion: 78 Resp: 3675

Ion Ratio Lower Upper

78 100

77 21.8 19.1 28.7



#41

Methacrylonitrile

Concen: 0.920 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.10 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

Tgt Ion: 41 Resp: 1999

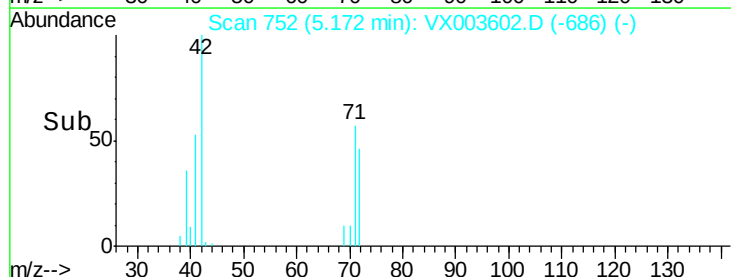
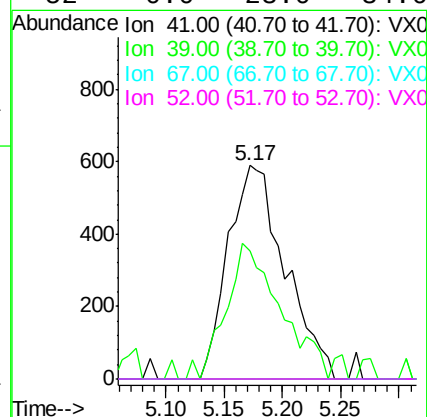
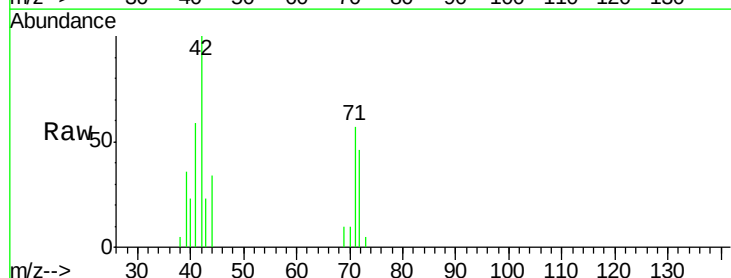
Ion Ratio Lower Upper

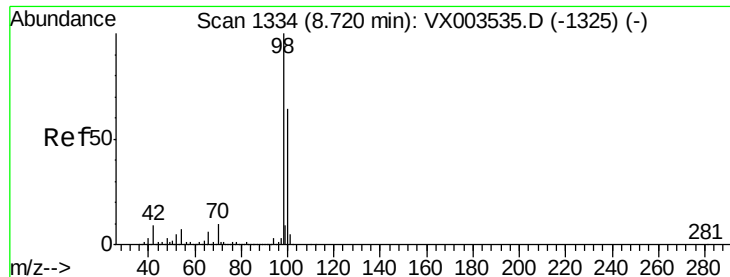
41 100

39 60.9 45.8 68.6

67 0.0 51.3 76.9#

52 0.0 23.0 34.6#

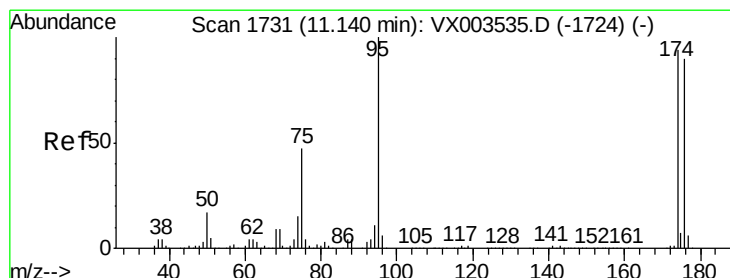
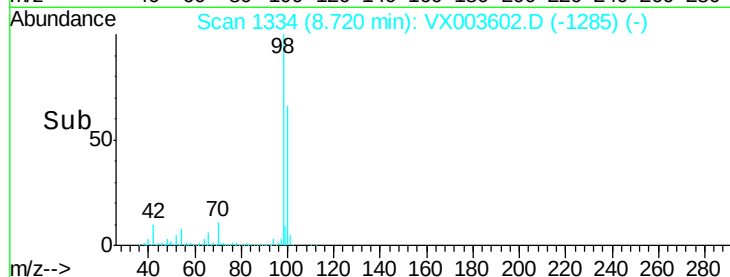
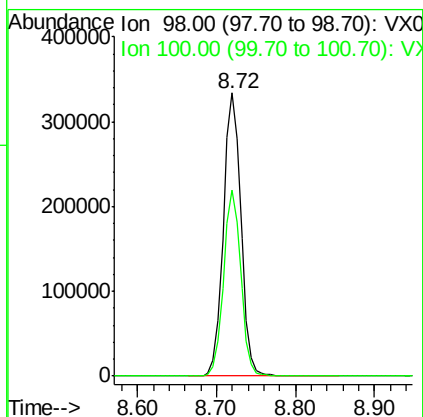
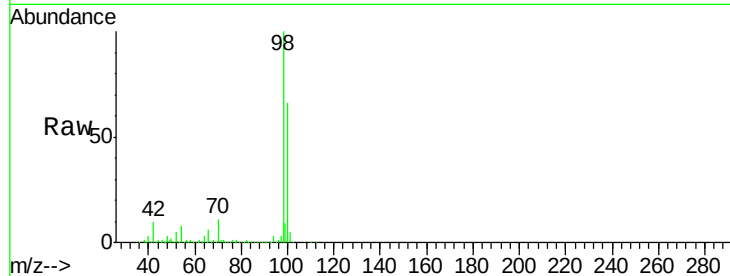




#50
Toluene-d8
Concen: 49.986 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003602.D
Acq: 23 Jul 2018 14:16

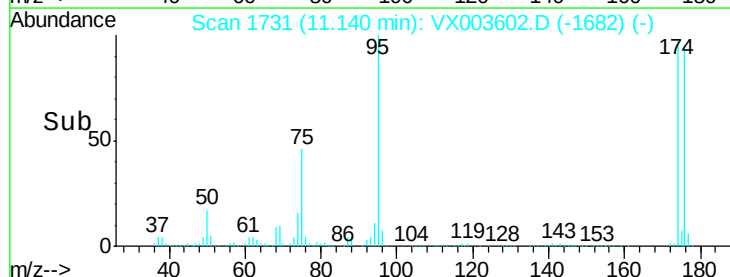
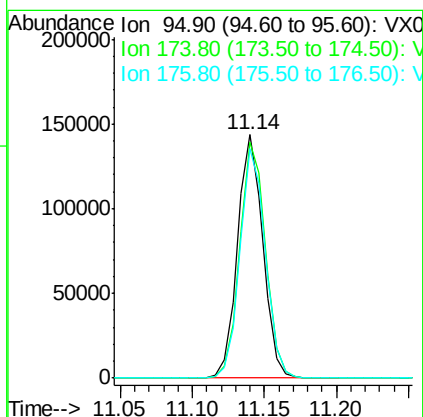
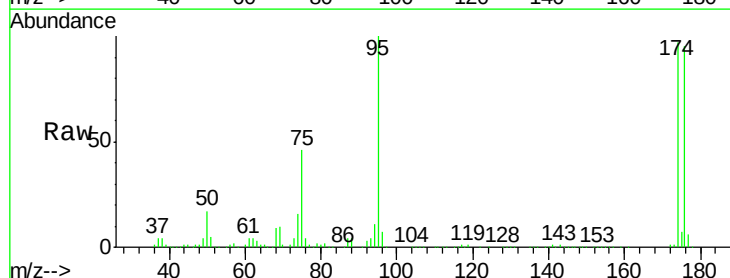
Instrument :
MSVOA_X
ClientSampleId :
MH-6

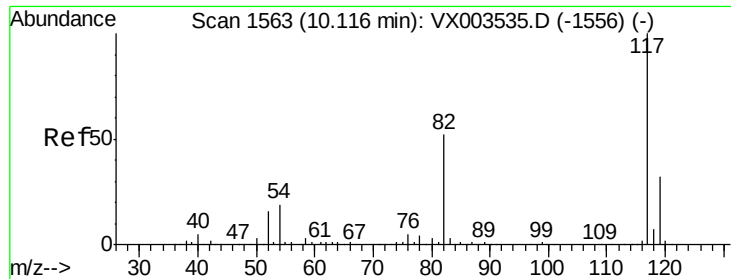
Tgt Ion: 98 Resp: 517871
Ion Ratio Lower Upper
98 100
100 64.3 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 46.704 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003602.D
Acq: 23 Jul 2018 14:16

Tgt Ion: 95 Resp: 176583
Ion Ratio Lower Upper
95 100
174 97.8 0.0 187.4
176 94.0 0.0 181.0

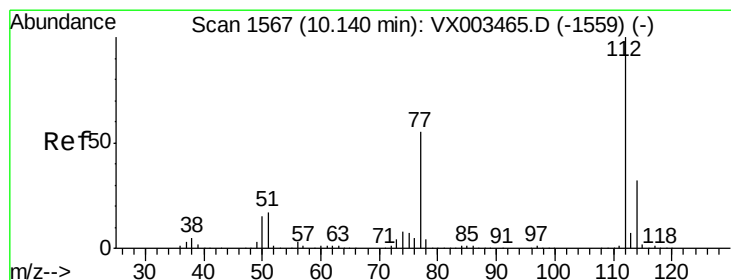
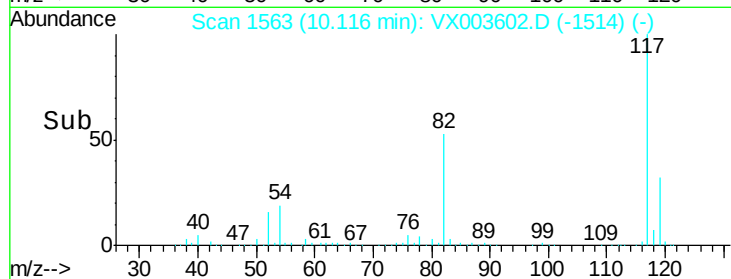
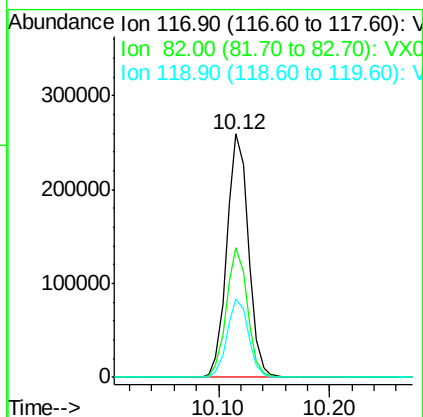
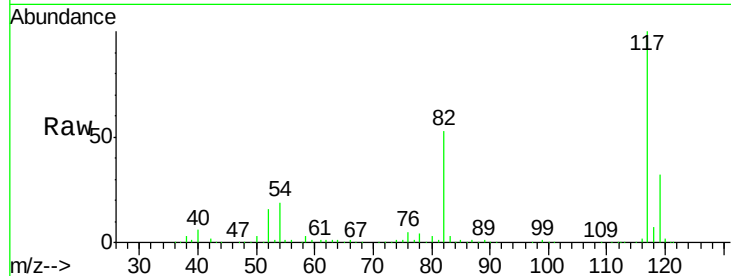




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003602.D
Acq: 23 Jul 2018 14:16

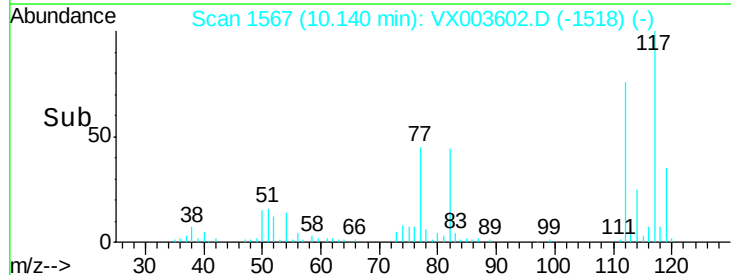
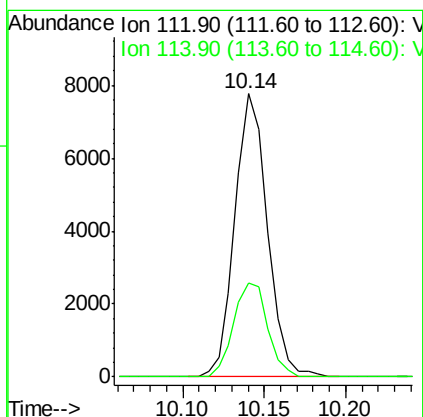
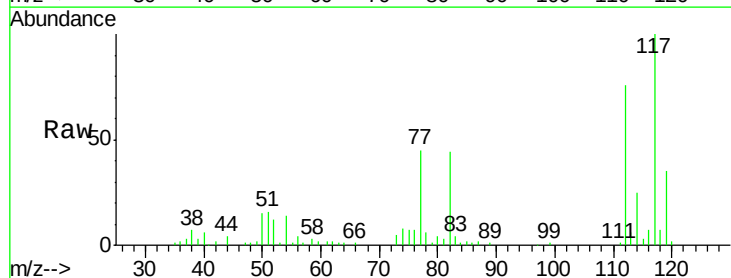
Instrument :
MSVOA_X
ClientSampleId :
MH-6

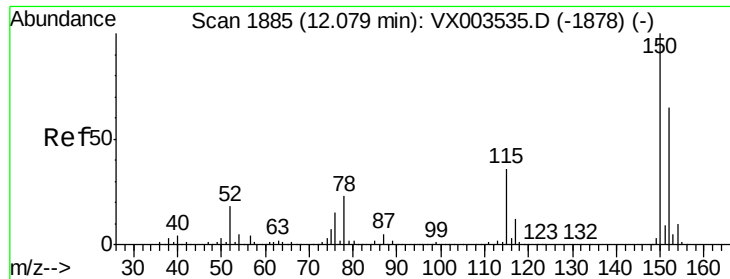
Tgt Ion:117 Resp: 348123
Ion Ratio Lower Upper
117 100
82 53.4 45.0 67.4
119 32.3 25.8 38.6



#65
Chlorobenzene
Concen: 1.203 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX003602.D
Acq: 23 Jul 2018 14:16

Tgt Ion:112 Resp: 10792
Ion Ratio Lower Upper
112 100
114 33.0 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

Instrument :

MSVOA_X

ClientSampled :

MH-6

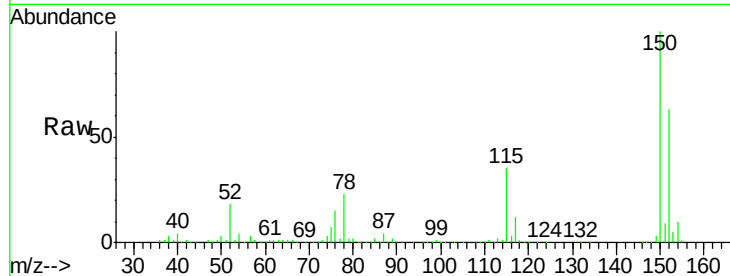
Tgt Ion:152 Resp: 186934

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

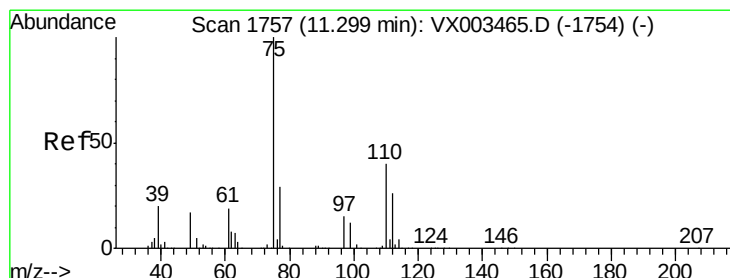
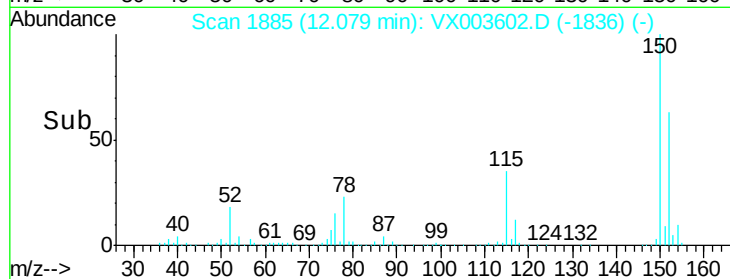
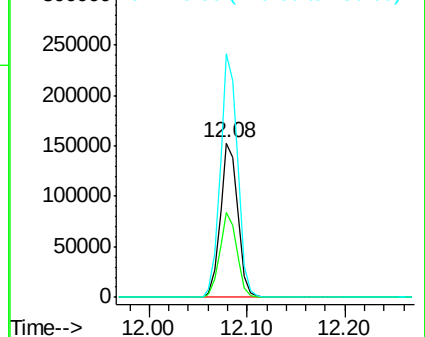
150 157.3 0.0 347.2



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: 24.372 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003602.D

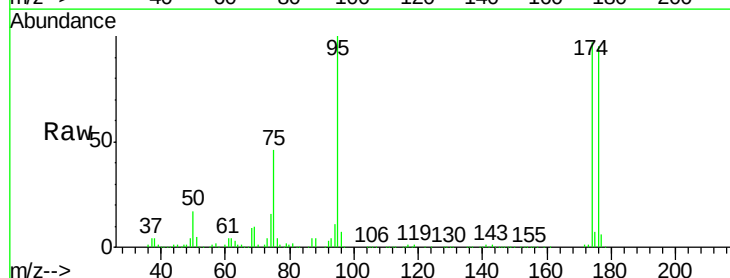
Acq: 23 Jul 2018 14:16

Tgt Ion: 75 Resp: 81846

Ion Ratio Lower Upper

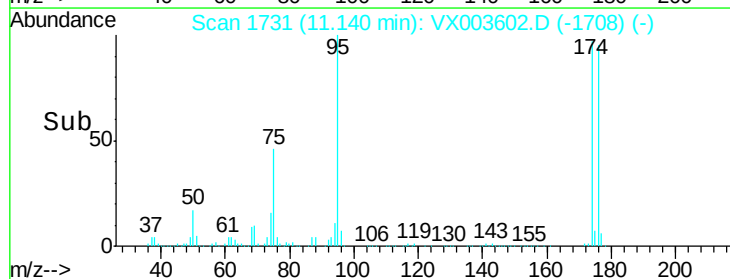
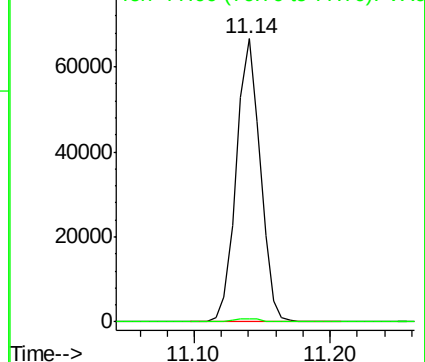
75 100

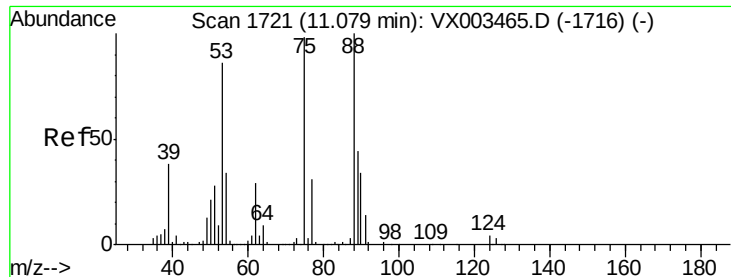
77 1.3 22.8 68.3#



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: 68.309 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003602.D

Acq: 23 Jul 2018 14:16

Instrument :

MSVOA_X

ClientSampleId :

MH-6

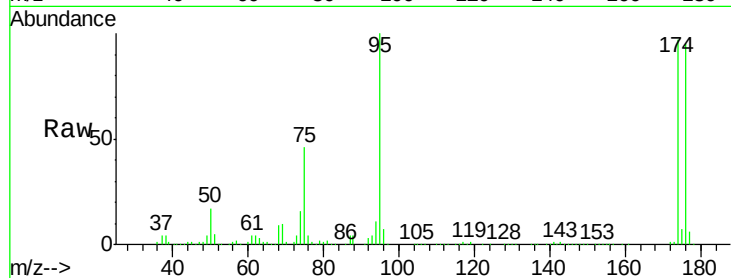
Tgt Ion: 75 Resp: 81846

Ion Ratio Lower Upper

75 100

53 0.1 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

