

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052218\
 Data File : VX001894.D
 Acq On : 22 May 2018 15:36
 Operator : JC/MD
 Sample : J2988-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 01:13:26 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X051518W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 01:36:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	325492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	464230	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	403137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	216932	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	256864	58.88	ug/l	0.00
Spiked Amount			Recovery	=	117.76%	
35) Dibromofluoromethane	5.51	113	206581	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
50) Toluene-d8	8.72	98	737764	52.58	ug/l	0.00
Spiked Amount			Recovery	=	105.16%	
62) 4-Bromofluorobenzene	11.14	95	236359	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	

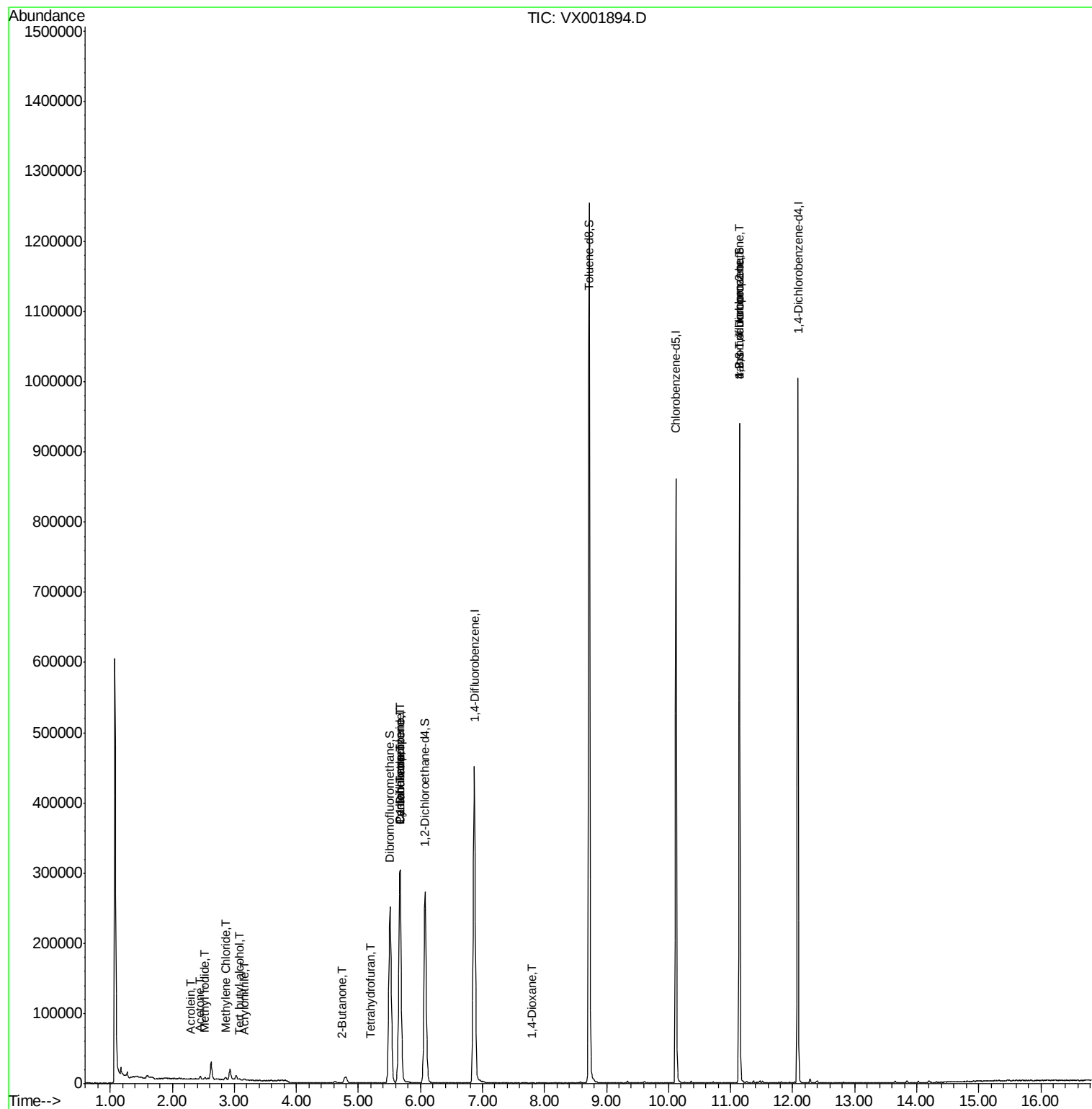
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1253	Below Cal		94
10) Methyl Iodide	2.53	142	2284	0.74	ug/l	98
11) Tert butyl alcohol	3.08	59	1331	1.72	ug/l #	72
13) Acrolein	2.30	56	321	0.58	ug/l #	15
15) Acrylonitrile	3.15	53	651	0.33	ug/l #	46
16) Acetone	2.45	43	4430	2.59	ug/l	95
20) Methylene Chloride	2.86	84	1504	0.41	ug/l	87
25) 2-Butanone	4.72	43	804	0.31	ug/l #	51
29) Tetrahydrofuran	5.19	42	632	0.37	ug/l #	48
31) Cyclohexane	5.67	56	5854	1.07	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19896	3.72	ug/l #	49
38) Carbon Tetrachloride	5.67	117	27420	4.90	ug/l #	16
49) 1,4-Dioxane	7.79	88	21	0.24	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	112708	27.32	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	112708	79.35	ug/l #	10

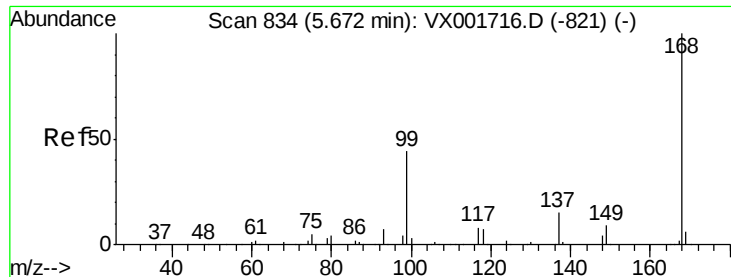
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001894.D

Acq: 22 May 2018 15:36

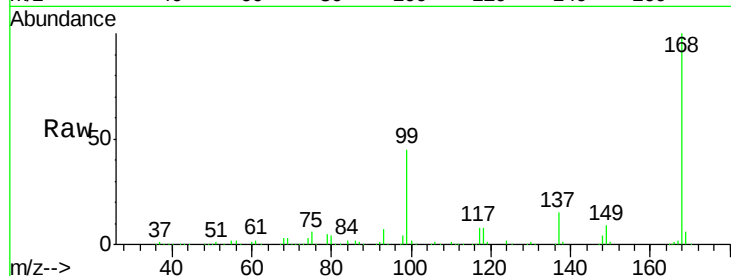
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 325492

Ion Ratio Lower Upper

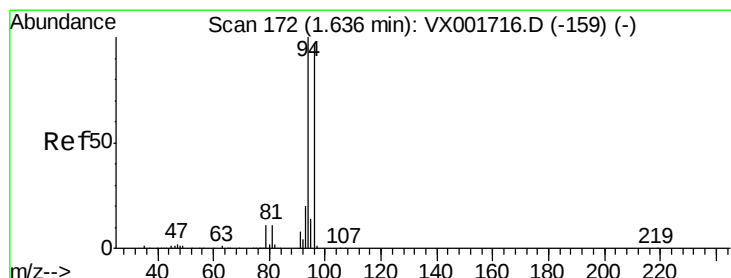
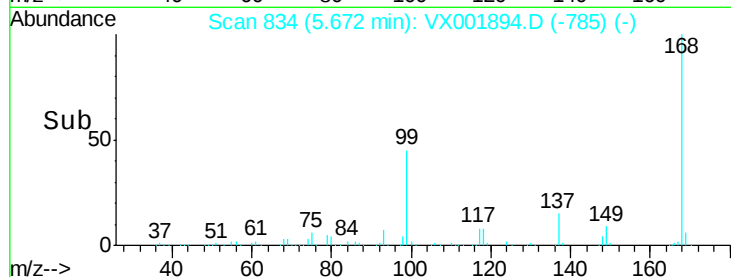
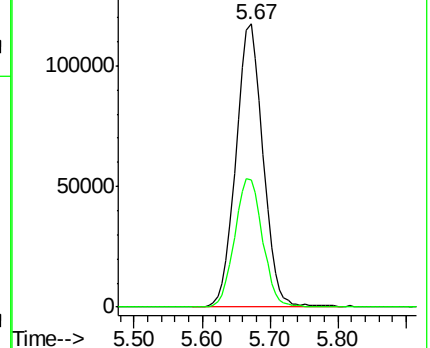
168 100

99 44.9 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001894.D

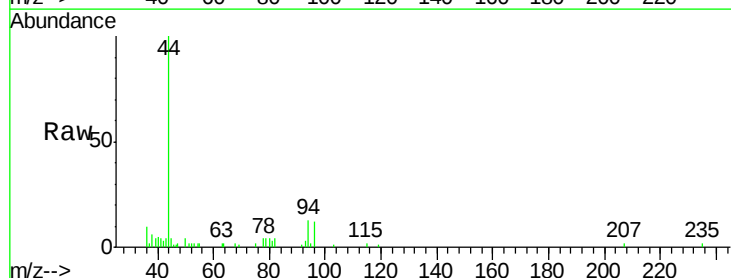
Acq: 22 May 2018 15:36

Tgt Ion: 94 Resp: 1253

Ion Ratio Lower Upper

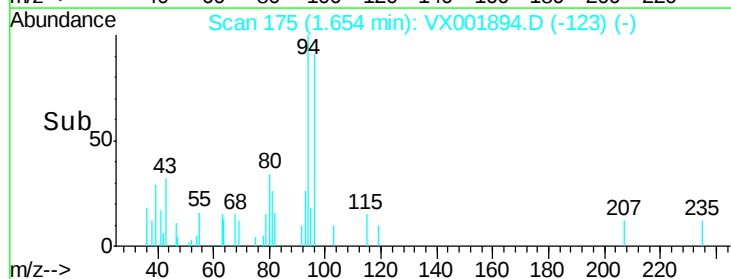
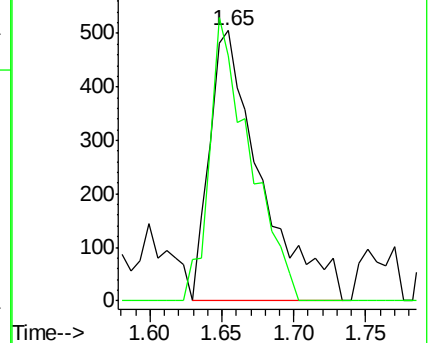
94 100

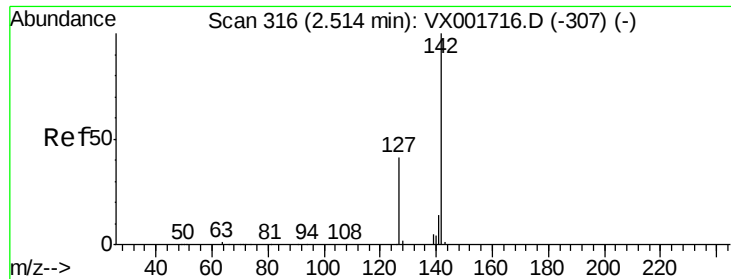
96 90.7 77.4 116.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

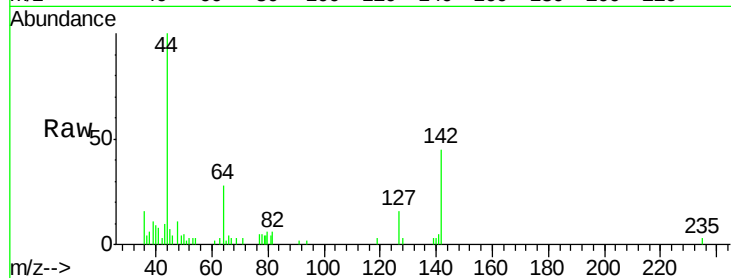




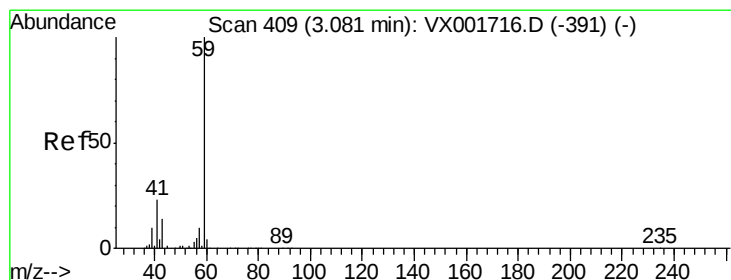
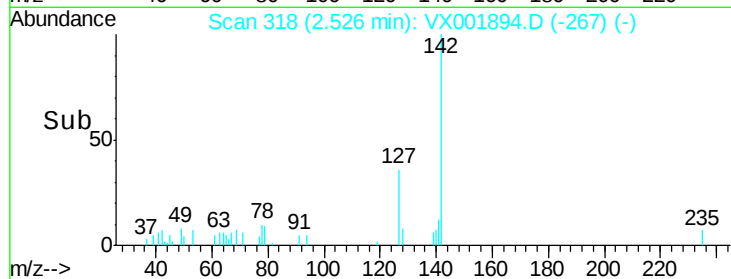
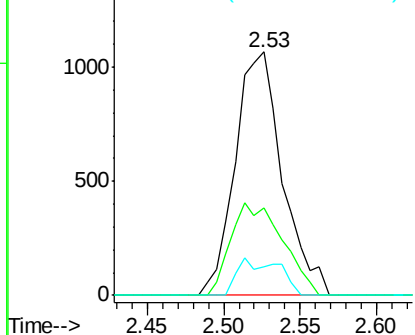
#10
Methvl Iodide
Concen: 0.74 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 2284
Ion Ratio Lower Upper
142 100
127 41.9 32.5 48.7
141 13.3 11.4 17.0

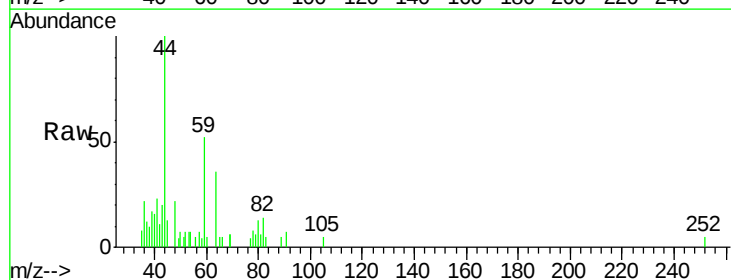


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

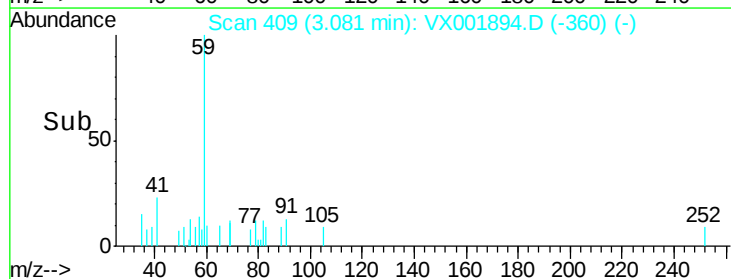
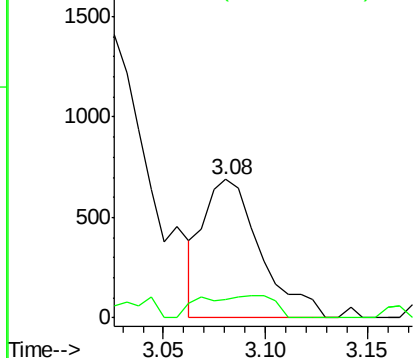


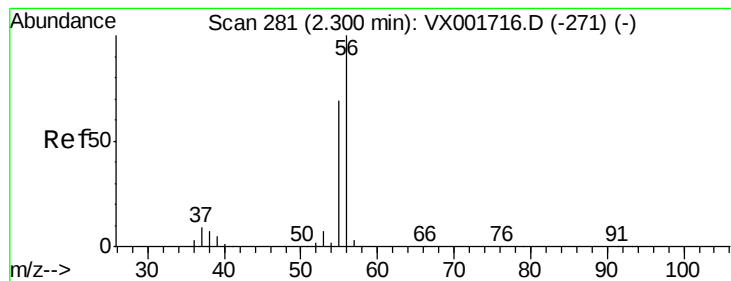
#11
Tert butyl alcohol
Concen: 1.72 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

Tgt Ion: 59 Resp: 1331
Ion Ratio Lower Upper
59 100
57 21.2 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.58 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX001894.D

Acq: 22 May 2018 15:36

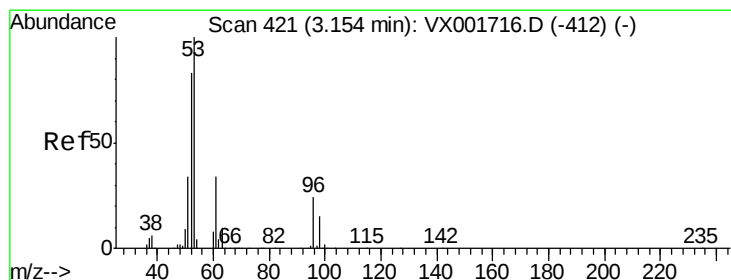
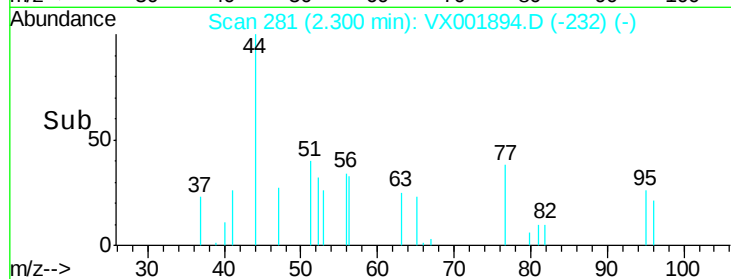
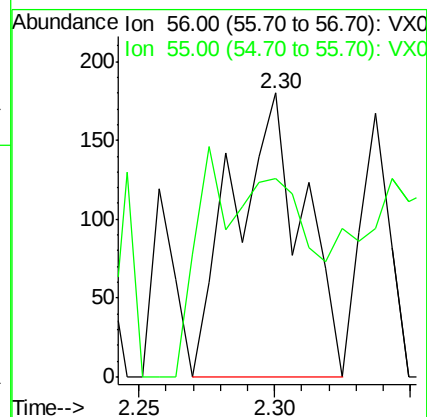
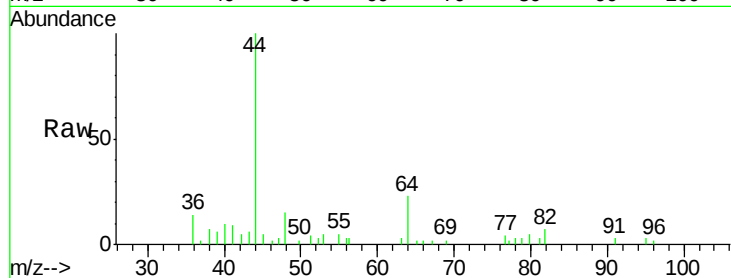
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 321

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.2#



#15

Acrylonitrile

Concen: 0.33 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX001894.D

Acq: 22 May 2018 15:36

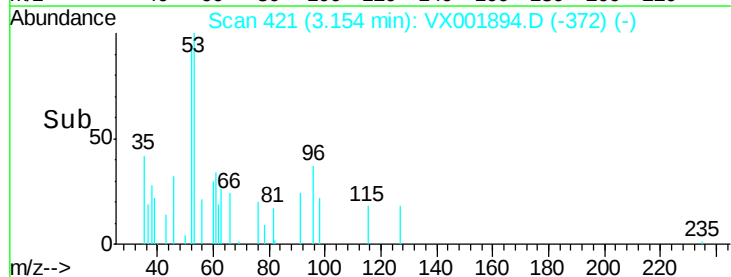
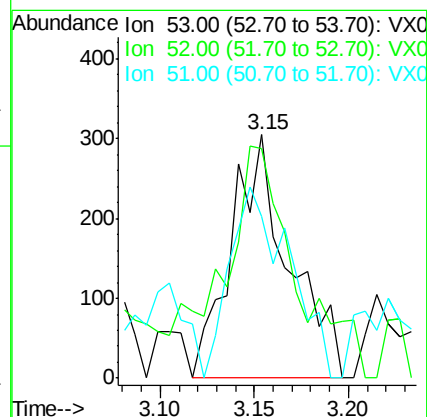
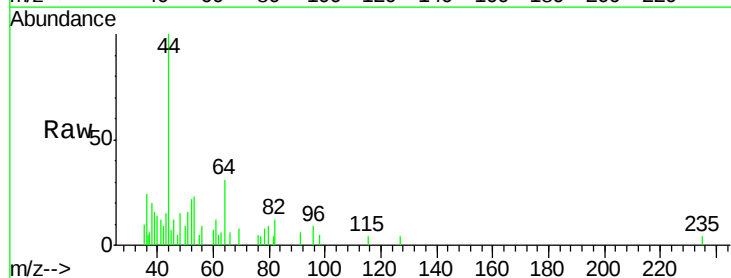
Tgt Ion: 53 Resp: 651

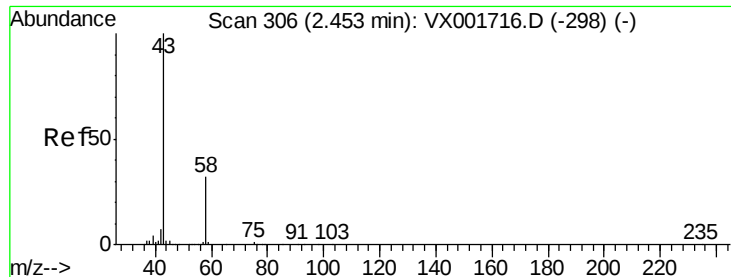
Ion Ratio Lower Upper

53 100

52 120.4 65.6 98.4#

51 80.6 28.1 42.1#





#16

Acetone

Concen: 2.59 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001894.D

Acq: 22 May 2018 15:36

Instrument :

MSVOA_X

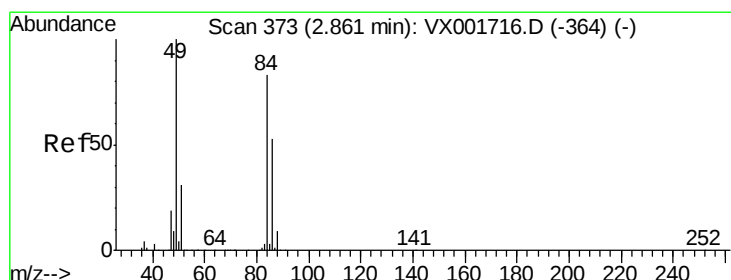
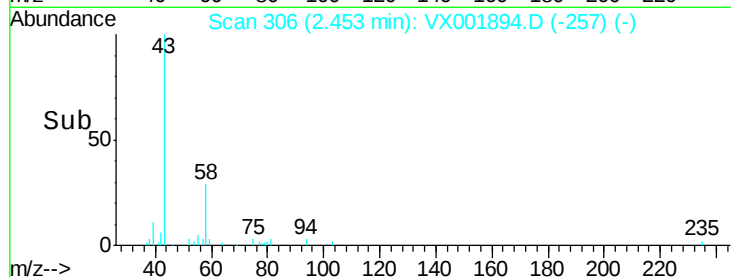
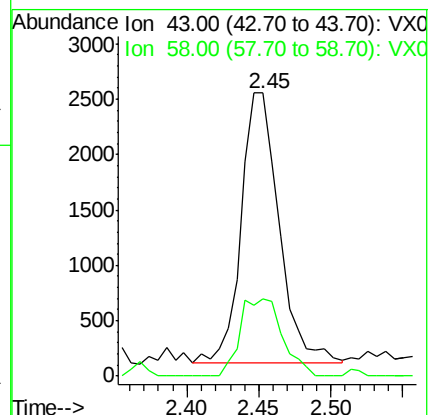
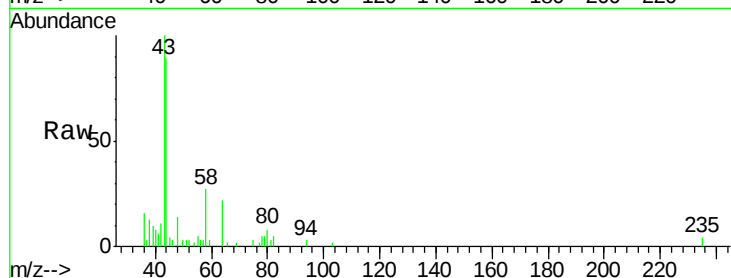
ClientSampleId :

Tot Ion: 43 Resp: 4430

Ion Ratio Lower Upper

43 100

58 28.6 25.3 37.9



#20

Methylene Chloride

Concen: 0.41 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001894.D

Acq: 22 May 2018 15:36

Tgt Ion: 84 Resp: 1504

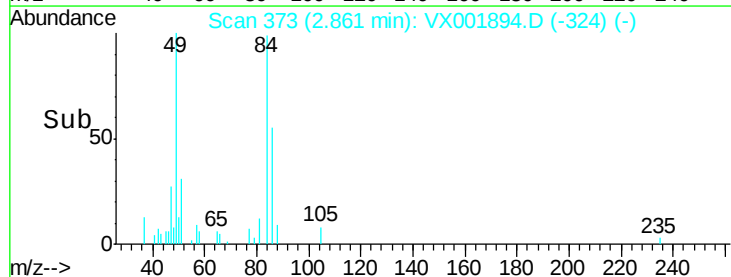
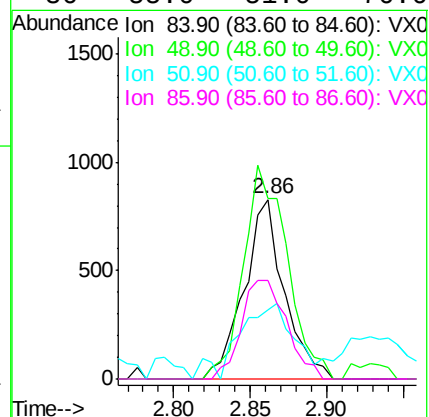
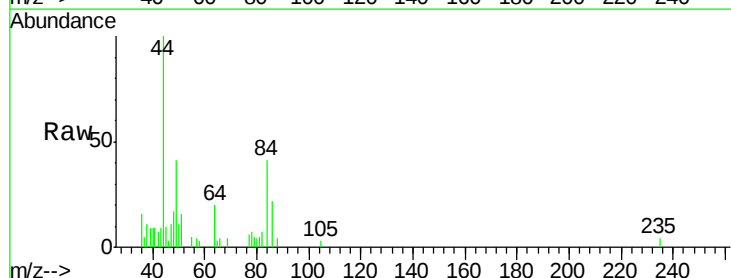
Ion Ratio Lower Upper

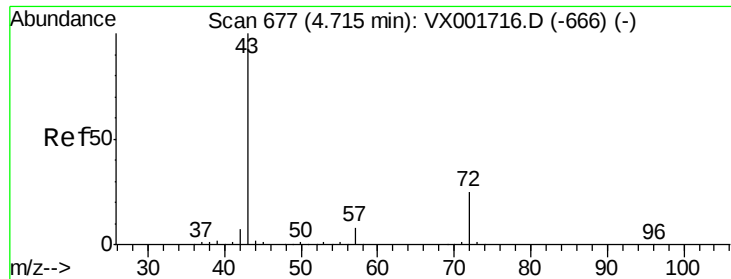
84 100

49 100.6 96.3 144.5

51 38.3 29.8 44.6

86 55.0 51.0 76.6

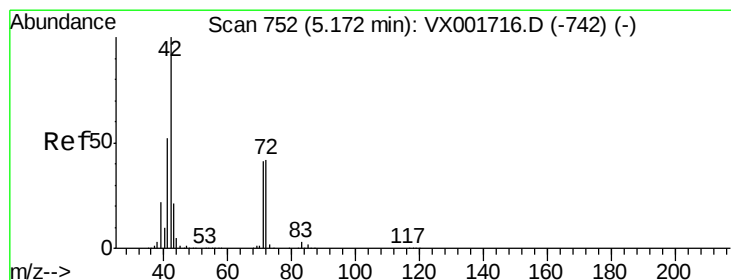
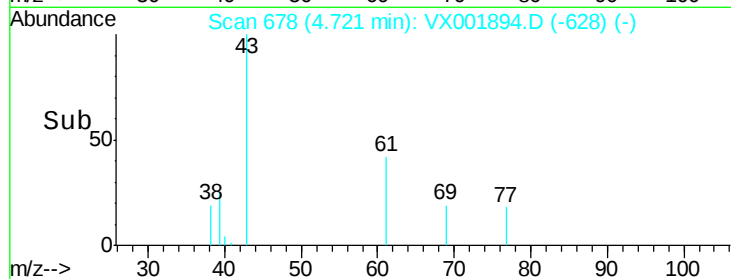
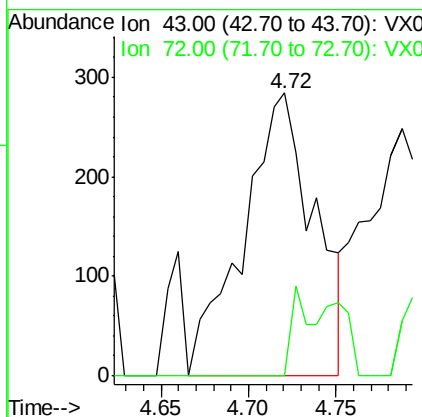
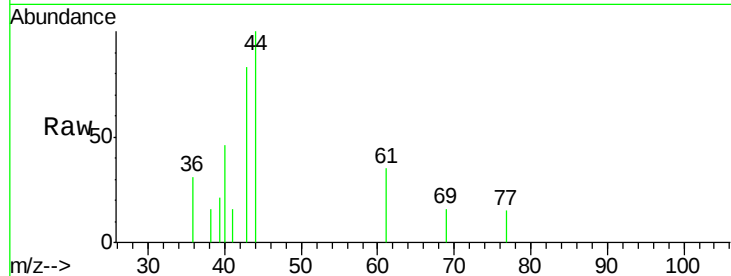




#25
2-Butanone
Concen: 0.31 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

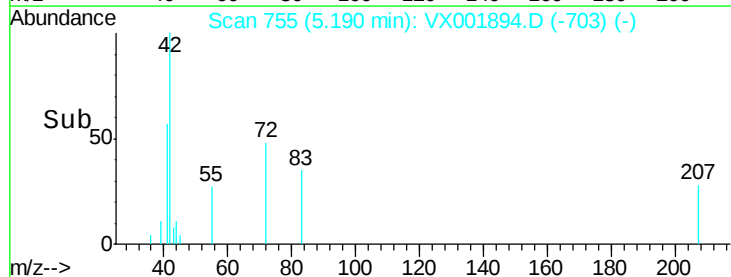
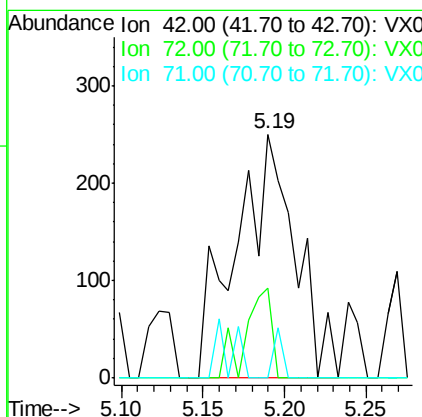
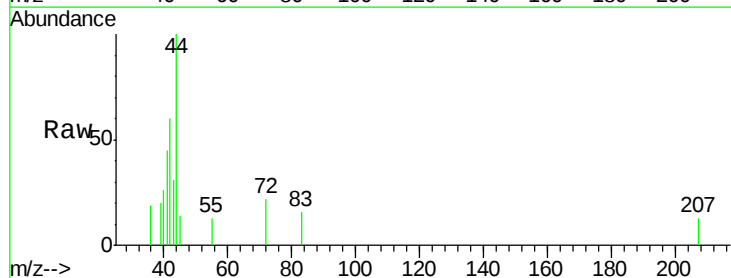
Instrument :
MSVOA_X
ClientSampled :

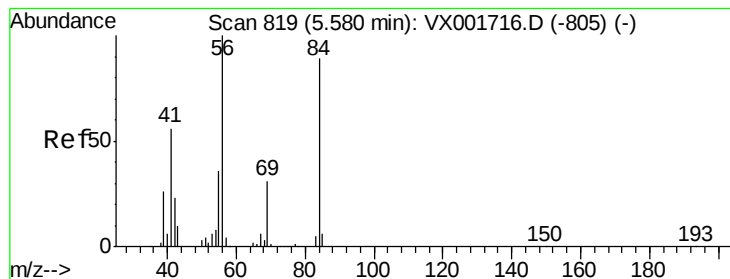
Tot Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#



#29
Tetrahydrofuran
Concen: 0.37 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.02 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

Tgt Ion: 42 Resp: 632
Ion Ratio Lower Upper
42 100
72 16.5 35.4 53.2#
71 3.0 33.2 49.8#





#31

Cyclohexane

Concen: 1.07 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001894.D

Acq: 22 May 2018 15:36

Instrument :
MSVOA_X
ClientSampled :

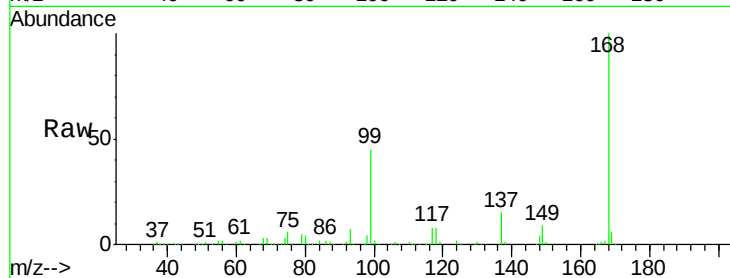
Tot Ion: 56 Resp: 5854

Ion Ratio Lower Upper

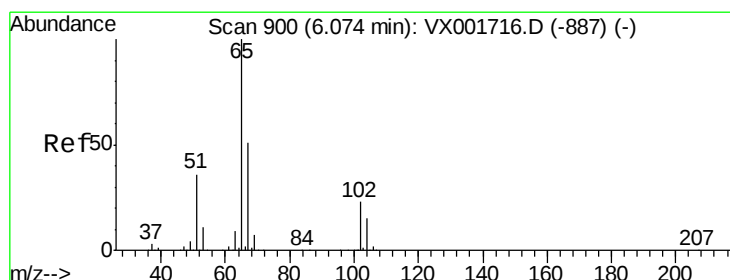
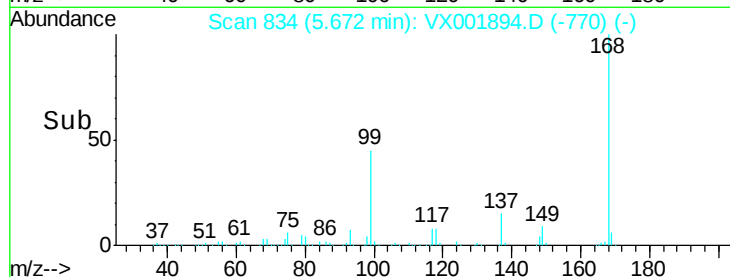
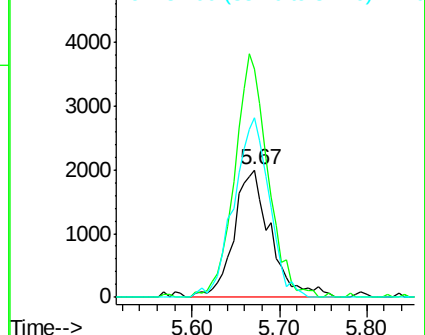
56 100

69 179.2 25.0 37.6#

84 141.1 71.0 106.4#



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: 58.88 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001894.D

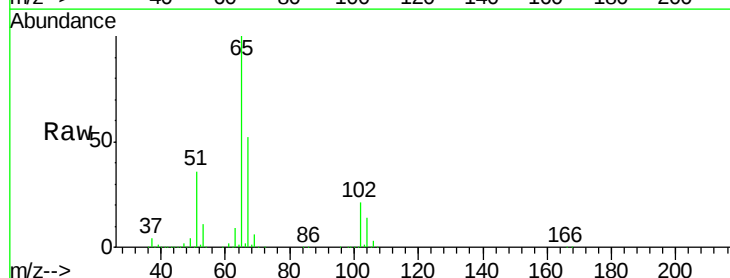
Acq: 22 May 2018 15:36

Tgt Ion: 65 Resp: 256864

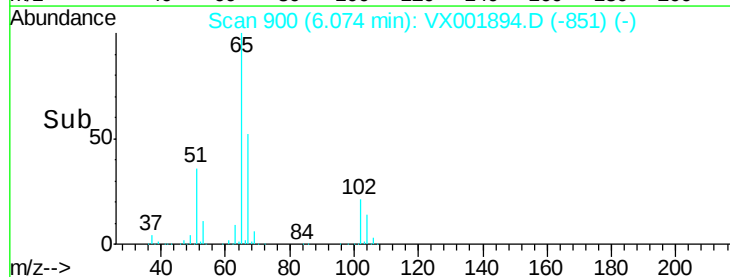
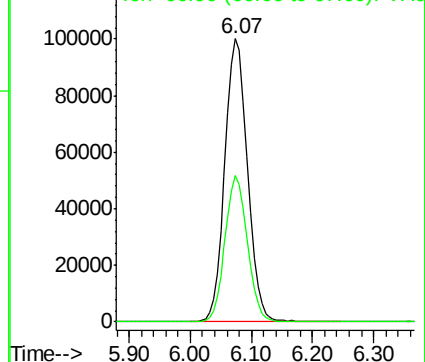
Ion Ratio Lower Upper

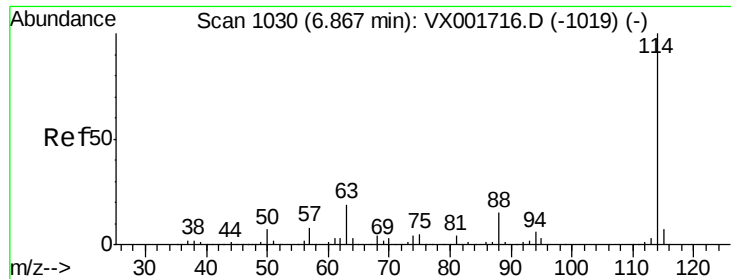
65 100

67 51.0 0.0 102.8



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

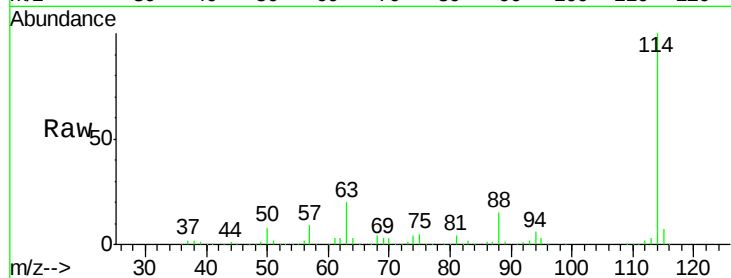




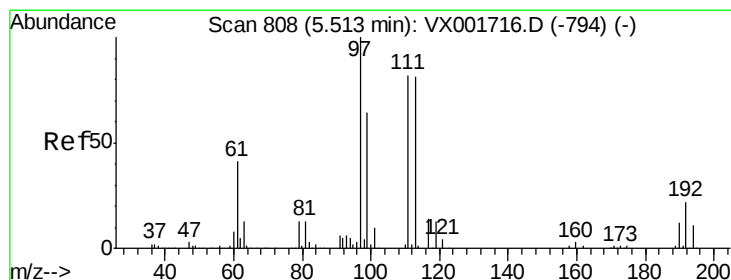
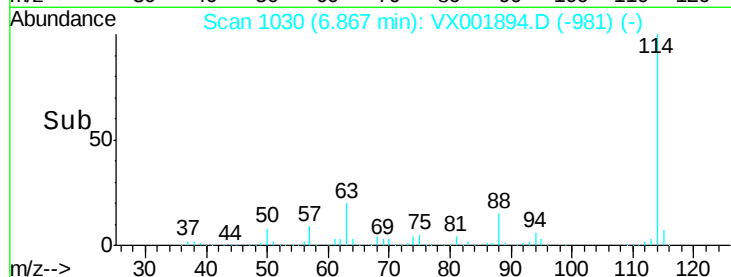
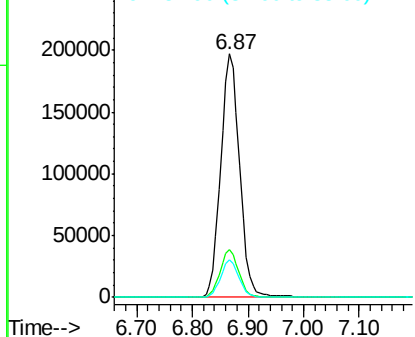
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 464230
Ion Ratio Lower Upper
114 100
63 19.7 0.0 37.0
88 15.4 0.0 29.8

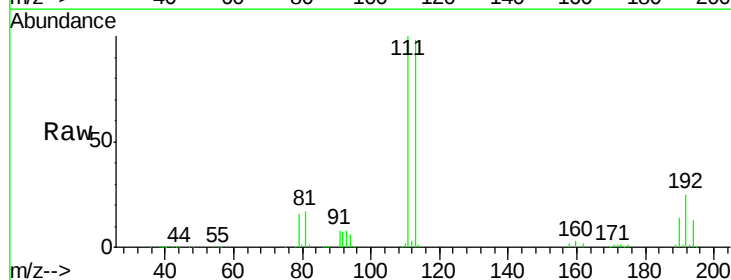


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

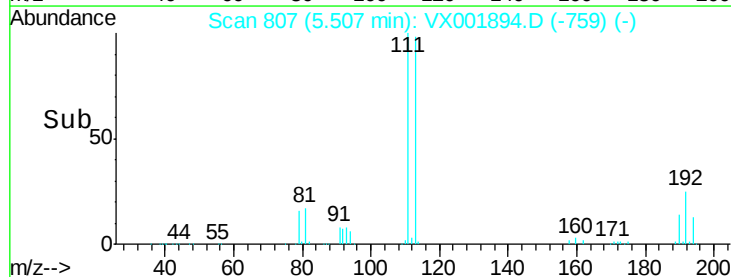
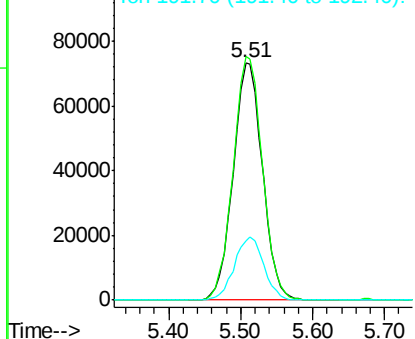


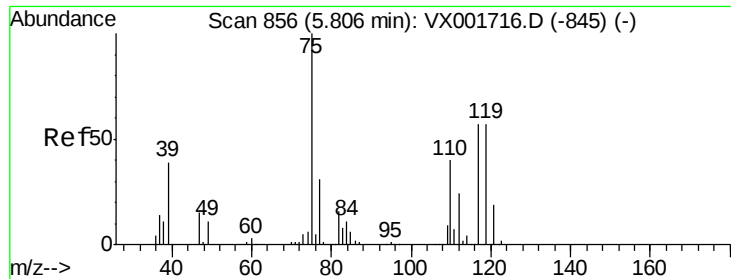
#35
Dibromofluoromethane
Concen: 52.73 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.01 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

Tgt Ion:113 Resp: 206581
Ion Ratio Lower Upper
113 100
111 102.6 82.0 123.0
192 26.8 21.6 32.4



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

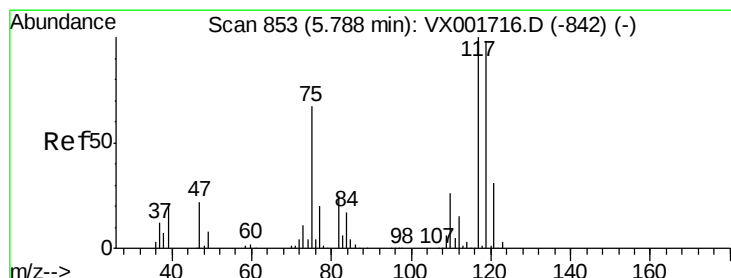
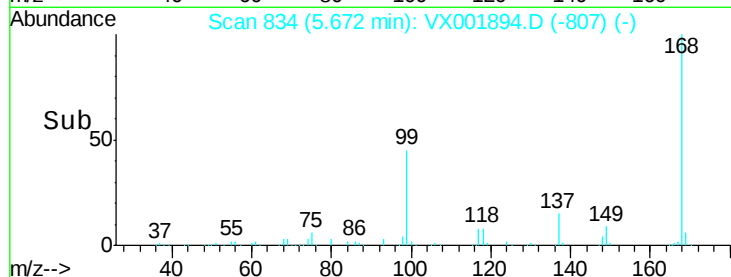
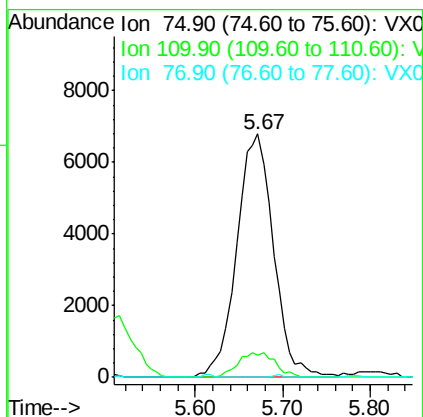
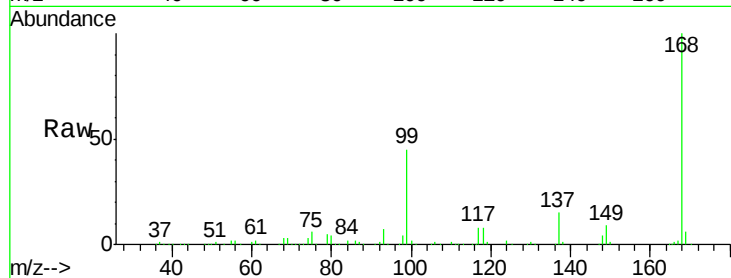




#36
 1,1-Dichloropropene
 Concen: 3.72 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX001894.D
 Acq: 22 May 2018 15:36

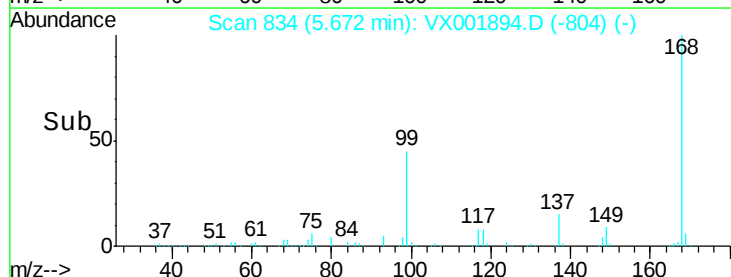
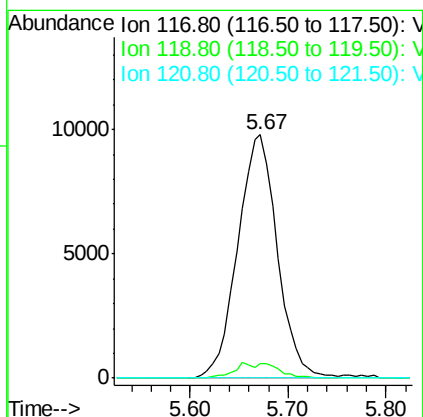
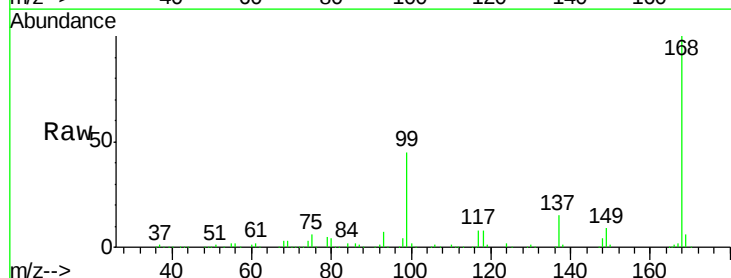
Instrument :
 MSVOA_X
 ClientSampleId :

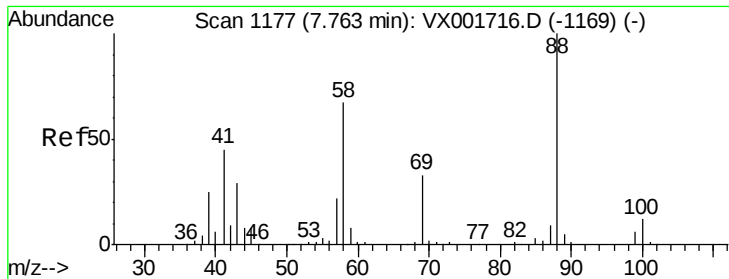
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	19.1	57.1#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 4.90 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX001894.D
 Acq: 22 May 2018 15:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	77.6	116.4#
121	0.0	24.6	36.8#

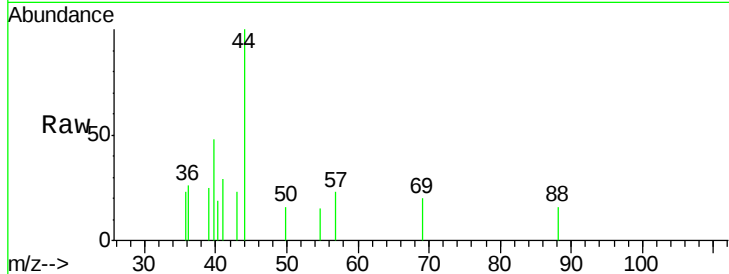




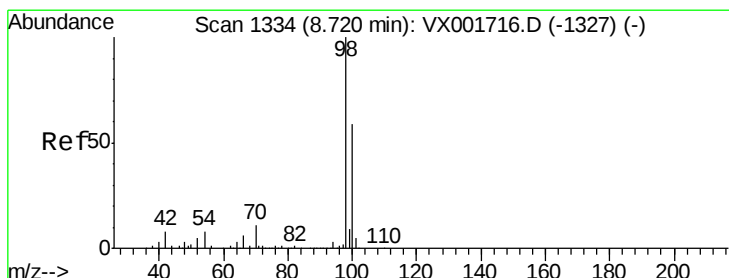
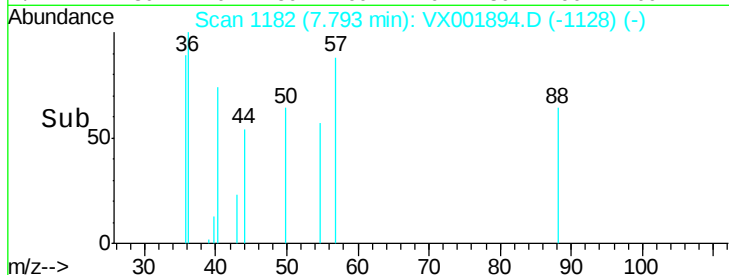
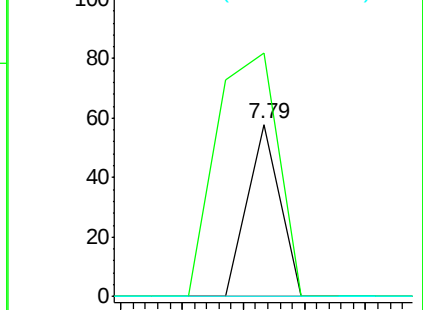
#49
1,4-Dioxane
Concen: 0.24 ug/l
RT: 7.79 min Scan# 1182
Delta R.T. 0.03 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 271.4 27.3 40.9#
58 0.0 55.9 83.9#

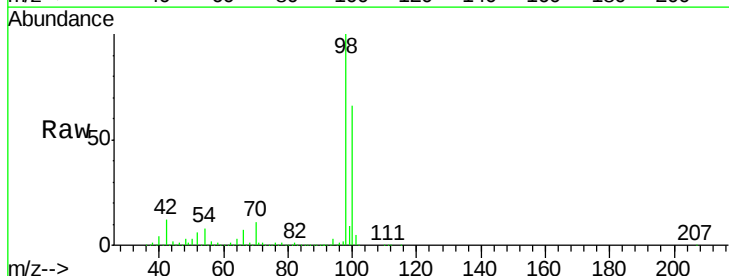


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

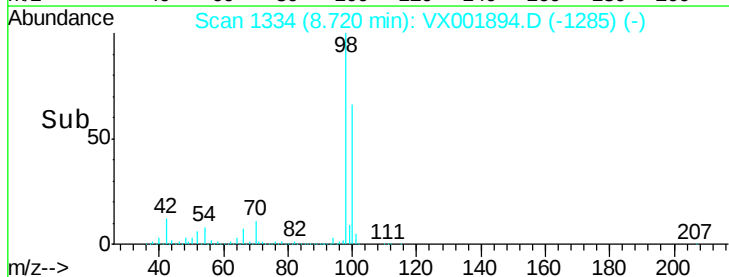
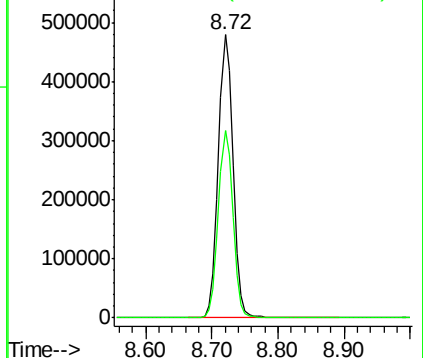


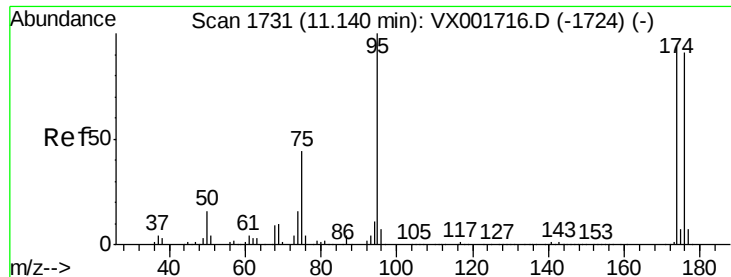
#50
Toluene-d8
Concen: 52.58 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

Tgt Ion: 98 Resp: 737764
Ion Ratio Lower Upper
98 100
100 65.9 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

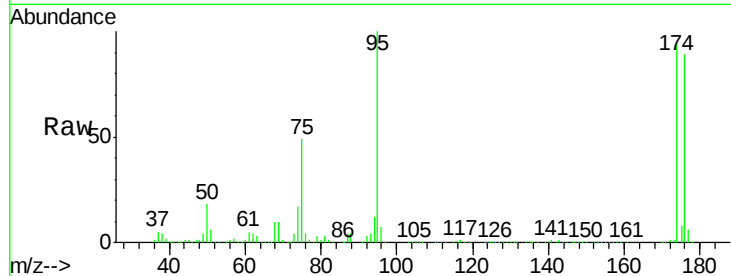




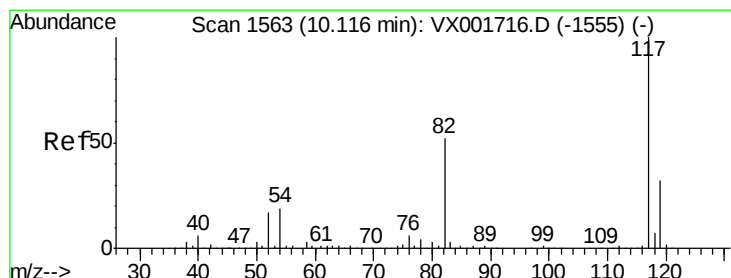
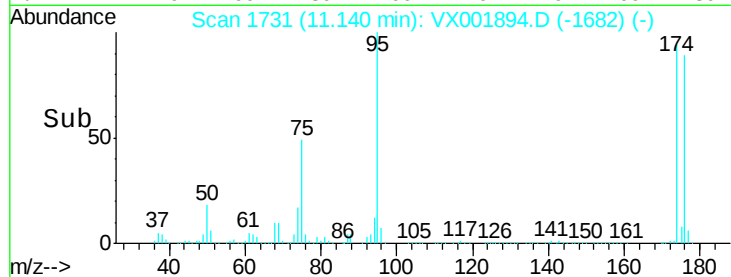
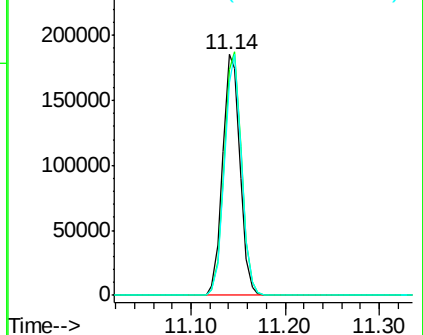
#62
4-Bromofluorobenzene
Concen: 46.79 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 236359
Ion Ratio Lower Upper
95 100
174 100.6 0.0 201.8
176 97.9 0.0 196.8

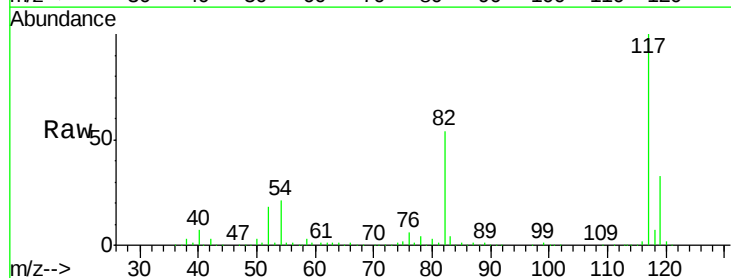


Abundance Ion 94.90 (94.60 to 95.60): VX
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

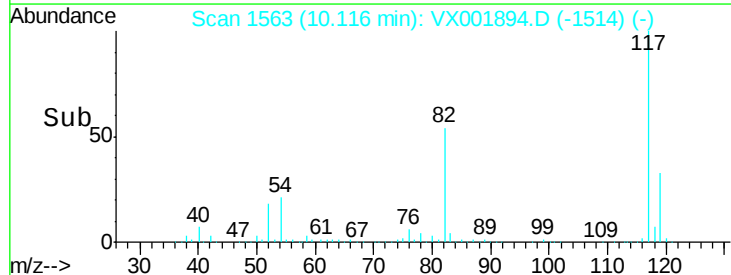
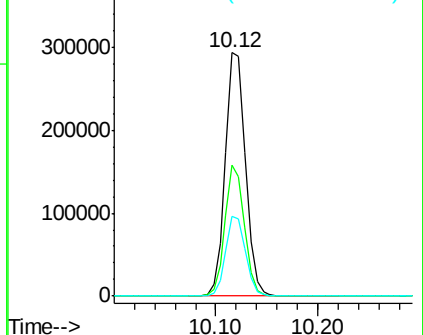


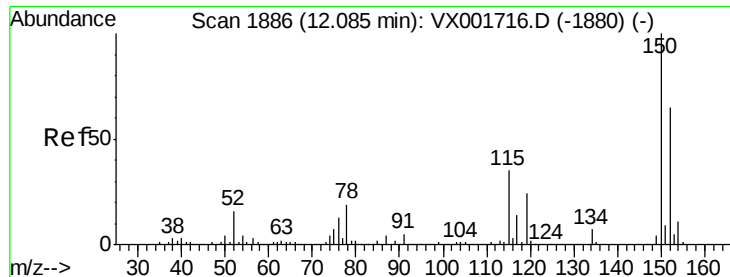
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX001894.D
Acq: 22 May 2018 15:36

Tgt Ion: 117 Resp: 403137
Ion Ratio Lower Upper
117 100
82 53.6 41.4 62.2
119 32.7 25.6 38.4



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001894.D

Acq: 22 May 2018 15:36

Instrument :

MSVOA_X

ClientSampleId :

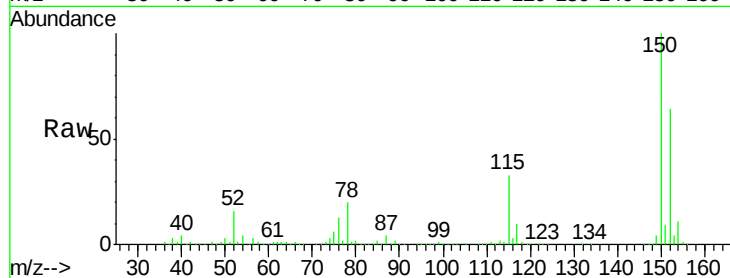
Tot Ion:152 Resp: 216932

Ion Ratio Lower Upper

152 100

115 52.3 37.4 112.2

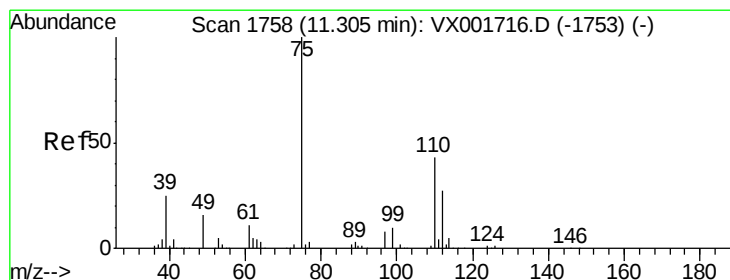
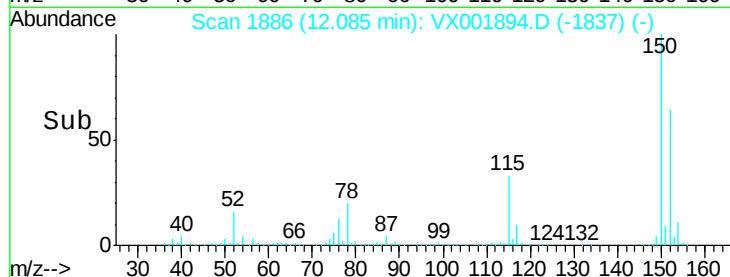
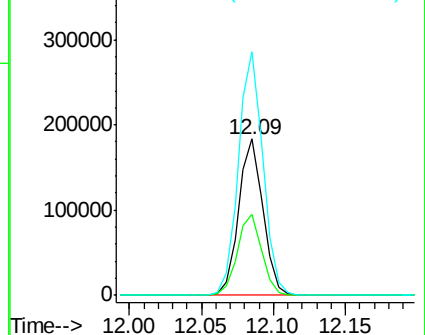
150 156.7 0.0 344.8



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: 27.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001894.D

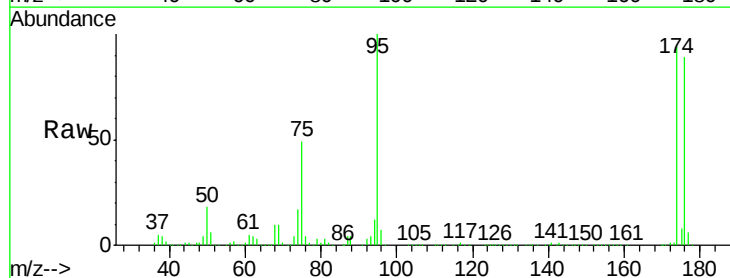
Acq: 22 May 2018 15:36

Tgt Ion: 75 Resp: 112708

Ion Ratio Lower Upper

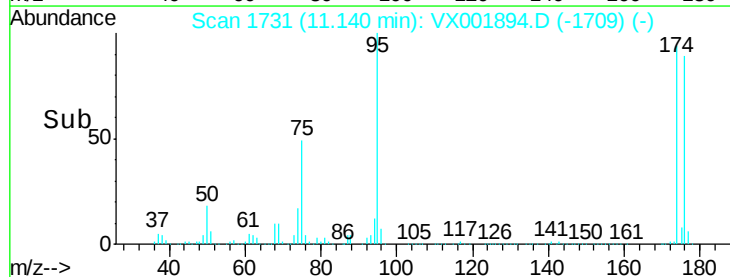
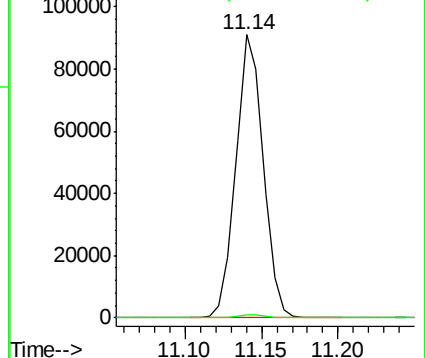
75 100

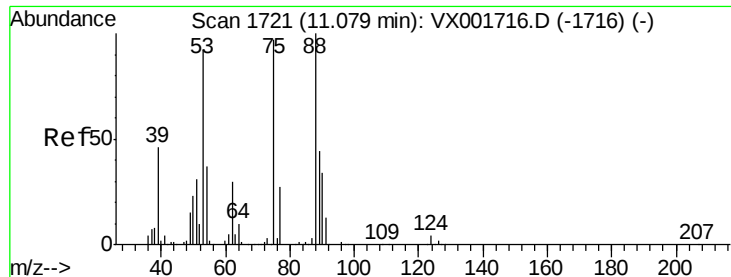
77 1.3 18.9 56.7#



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: 79.35 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001894.D
 Acq: 22 May 2018 15:36

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 112708
 Ion Ratio Lower Upper
 75 100
 53 0.3 79.4 119.2#
 89 0.0 38.8 58.2#

