

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032918\
 Data File : VX000554.D
 Acq On : 30 Mar 2018 09:50
 Operator : JC/MD
 Sample : J2094-11
 Misc : 5.00mL/MSVOA X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 30 11:11:12 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	101130	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	181428	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	180453	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	96886	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	74143	56.16	ug/l	0.00
Spiked Amount			Recovery	=	112.32%	
35) Dibromofluoromethane	5.51	113	58244	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
50) Toluene-d8	8.73	98	226485	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
62) 4-Bromofluorobenzene	11.15	95	79406	40.96	ug/l	0.00
Spiked Amount			Recovery	=	81.92%	

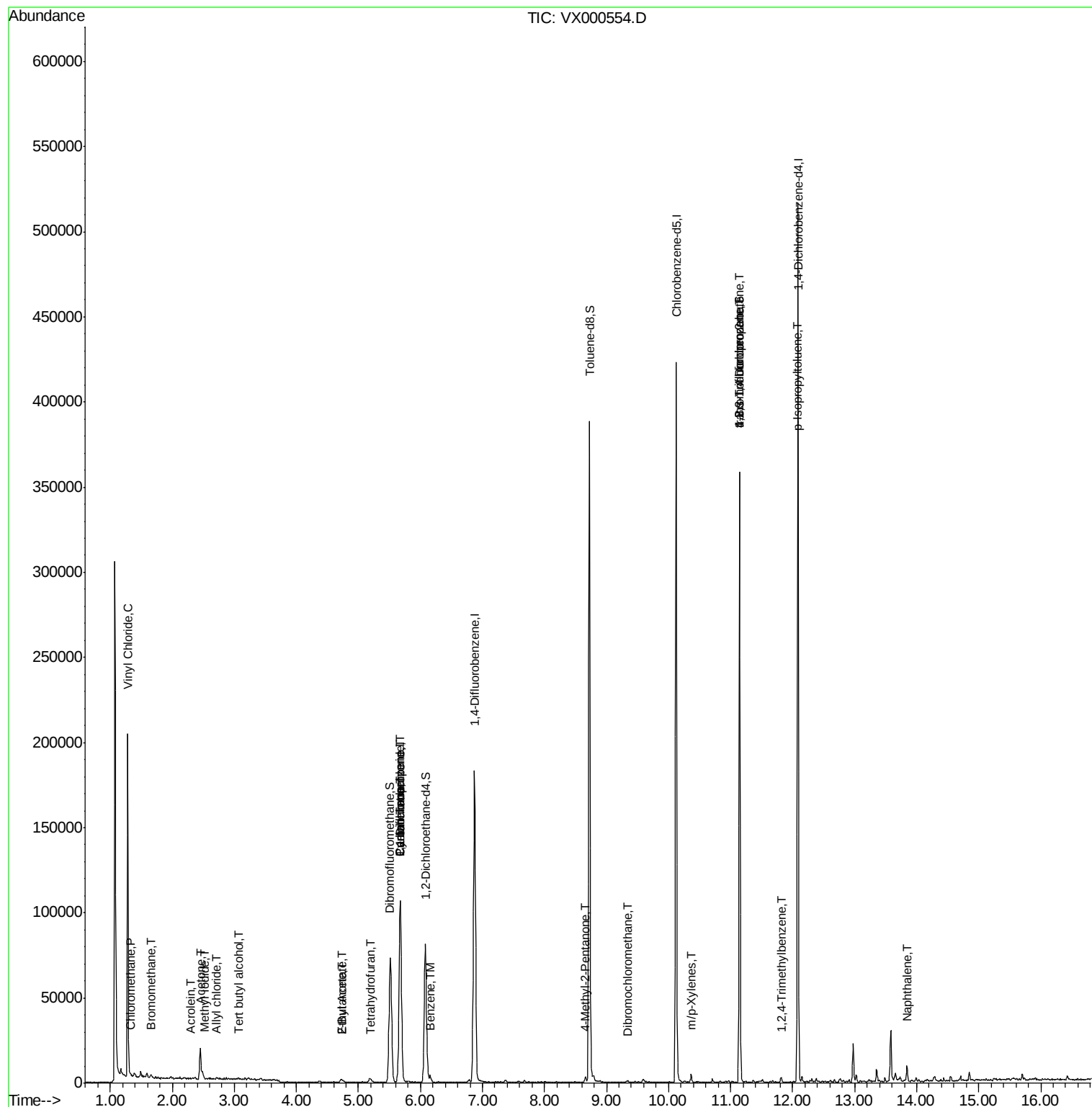
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	325	0.28	ug/l #	67
4) Vinyl Chloride	1.28	62	1585	1.28	ug/l #	44
5) Bromomethane	1.65	94	779	0.57	ug/l #	66
6) Chloroethane	1.71	64	29	Below Cal	#	44
10) Methyl Iodide	2.52	142	33	4.30	ug/l #	1
11) Tert butyl alcohol	3.07	59	1060	2.33	ug/l #	78
13) Acrolein	2.29	56	76	15.07	ug/l #	13
14) Allyl chloride	2.71	41	1277	0.56	ug/l #	45
16) Acetone	2.45	43	18368	16.73	ug/l	97
25) 2-Butanone	4.72	43	3625	2.94	ug/l #	81
29) Tetrahydrofuran	5.20	42	2236	2.94	ug/l #	31
31) Cyclohexane	5.68	56	2502	1.50	ug/l #	28
36) 1,1-Dichloropropene	5.68	75	7810	4.60	ug/l #	51
37) Ethyl Acetate	4.72	43	3625	1.56	ug/l #	69
38) Carbon Tetrachloride	5.67	117	10219	5.73	ug/l #	17
40) Benzene	6.16	78	3650	0.74	ug/l	98
51) 4-Methyl-2-Pentanone	8.66	43	2002	0.75	ug/l	94
60) Dibromochloromethane	9.34	129	67	4.15	ug/l #	12
68) m/p-Xylenes	10.36	106	1040	0.39	ug/l	89
74) N-amyl acetate	6.49	43	81	Below Cal	#	59
76) 1,2,3-Trichloropropane	11.15	75	45679	21.94	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	45679	71.03	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	1210	0.21	ug/l	91
86) p-Isopropyltoluene	12.07	119	4119	0.69	ug/l	88
95) Naphthalene	13.84	128	4500	0.57	ug/l	97

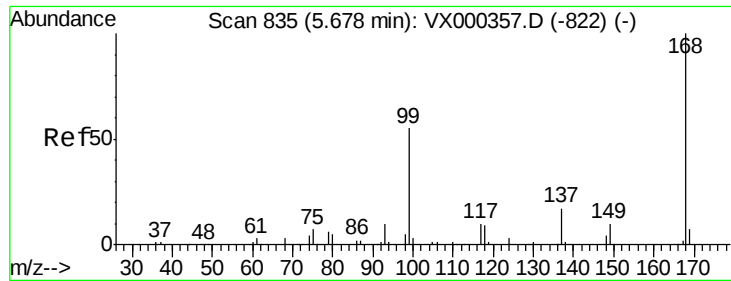
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032918\
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Instrument :
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ClientSampleId :

Quant Time: Mar 30 11:11:12 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 21 04:52:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

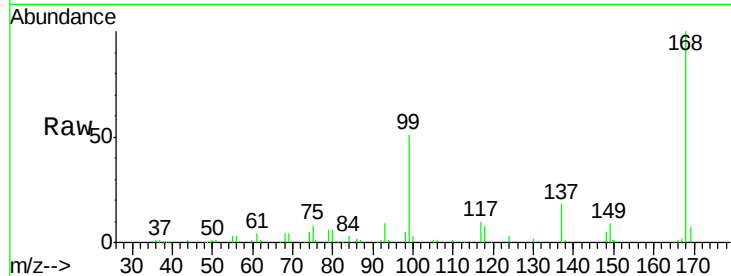
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 101130

Ion Ratio Lower Upper

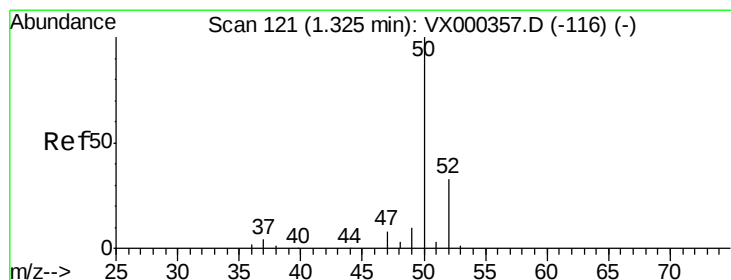
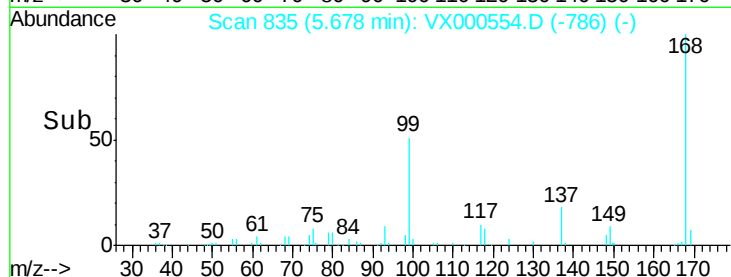
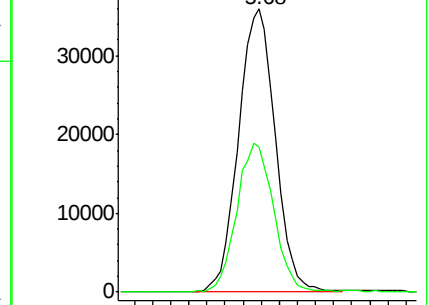
168 100

99 51.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.28 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX000554.D

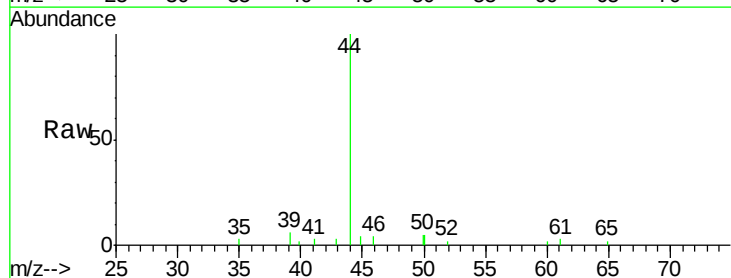
Acq: 30 Mar 2018 09:50

Tgt Ion: 50 Resp: 325

Ion Ratio Lower Upper

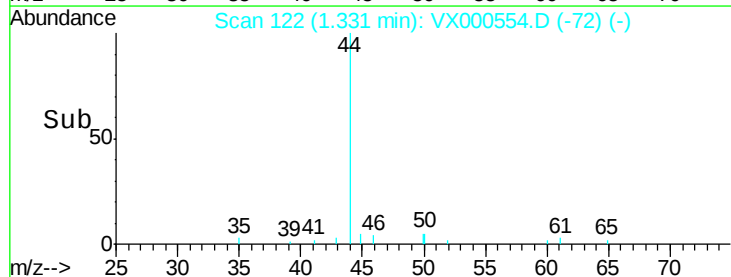
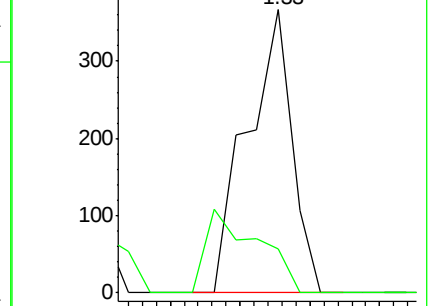
50 100

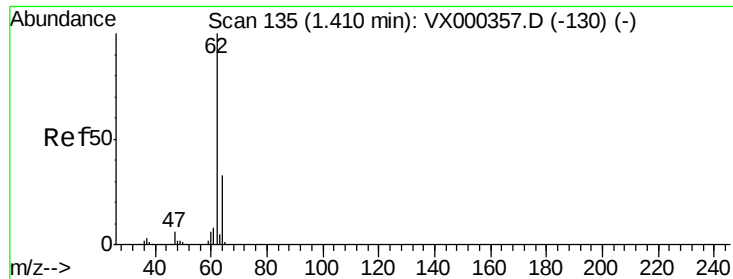
52 15.5 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 1.28 ug/l

RT: 1.28 min Scan# 114

Delta R.T. -0.13 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

Instrument :

MSVOA_X

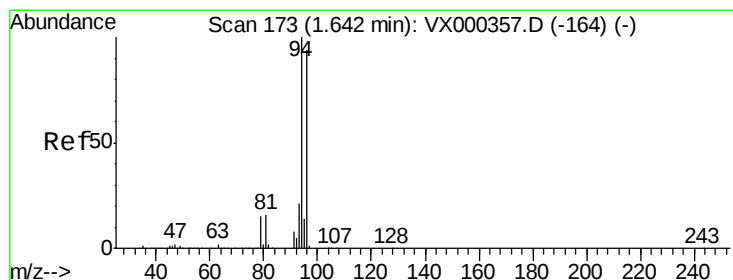
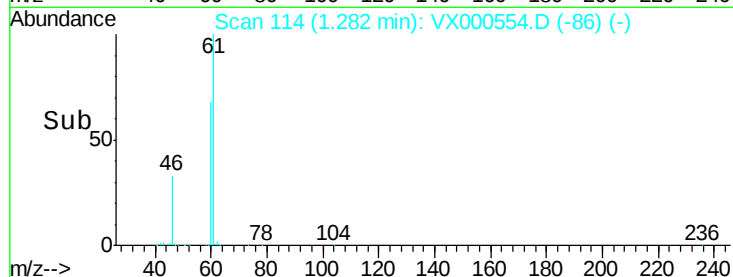
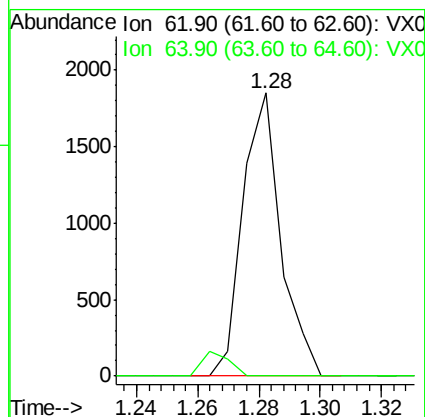
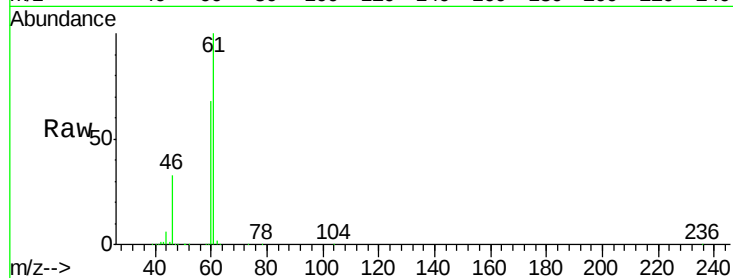
ClientSampled :

Tot Ion: 62 Resp: 1585

Ion Ratio Lower Upper

62 100

64 0.0 24.8 37.2#



#5

Bromomethane

Concen: 0.57 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000554.D

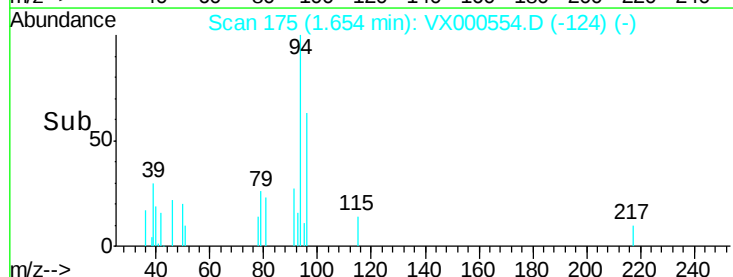
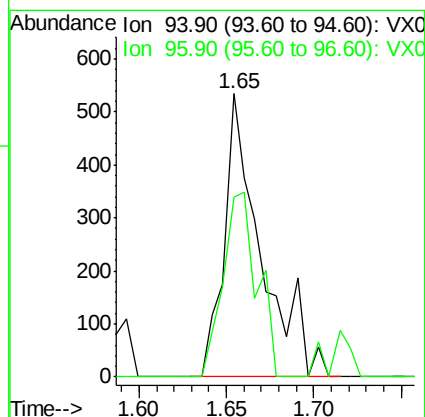
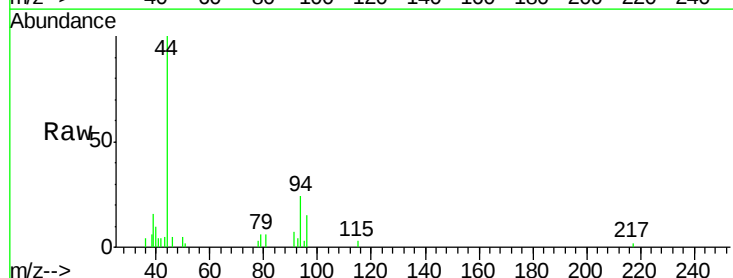
Acq: 30 Mar 2018 09:50

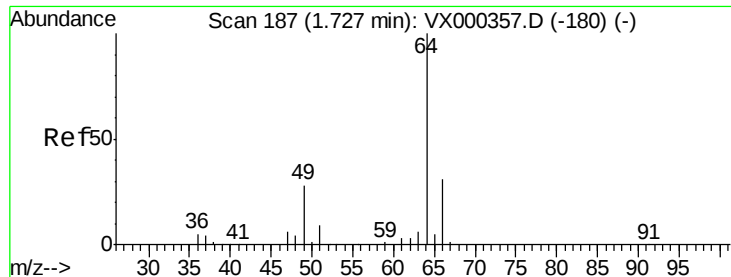
Tgt Ion: 94 Resp: 779

Ion Ratio Lower Upper

94 100

96 63.5 77.7 116.5#





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

Instrument :

MSVOA_X

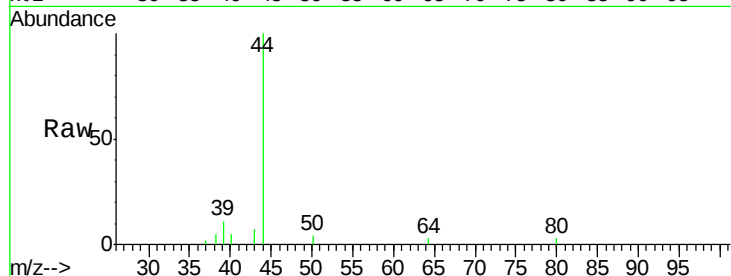
ClientSampled :

Tot Ion: 64 Resp: 29

Ion Ratio Lower Upper

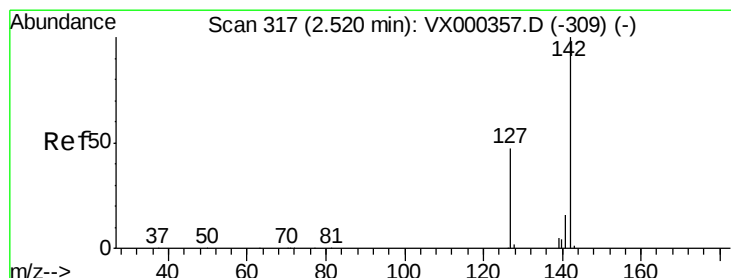
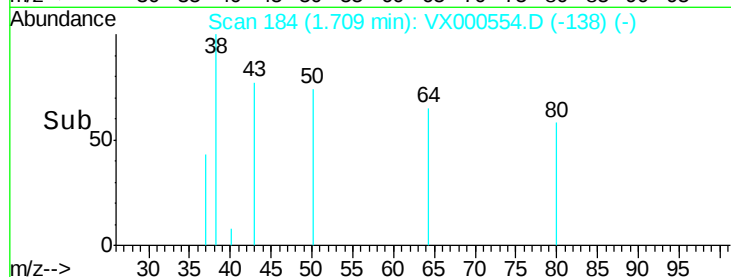
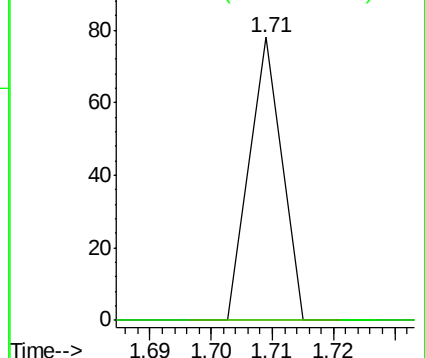
64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.30 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.00 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

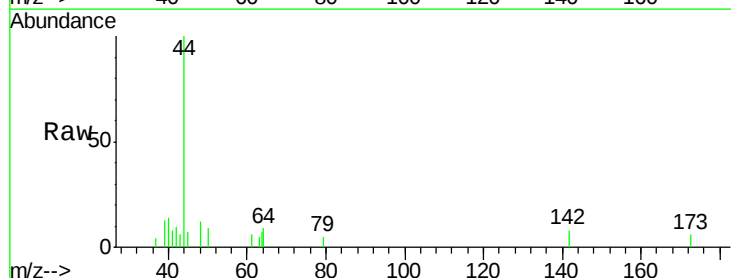
Tgt Ion:142 Resp: 33

Ion Ratio Lower Upper

142 100

127 157.6 39.2 58.8#

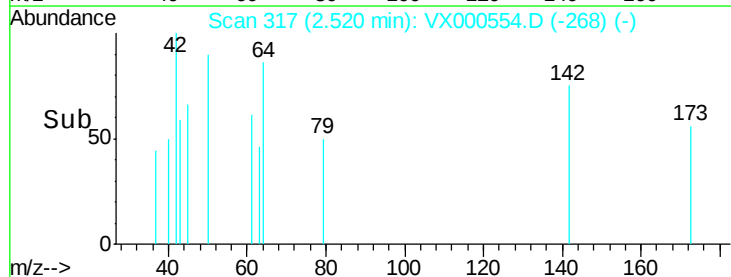
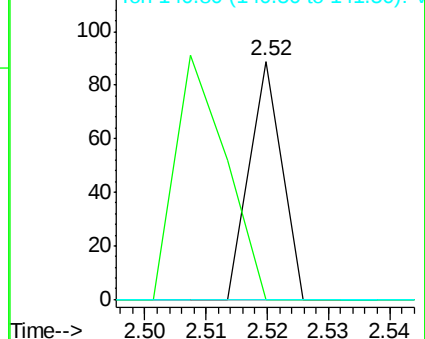
141 0.0 11.7 17.5#

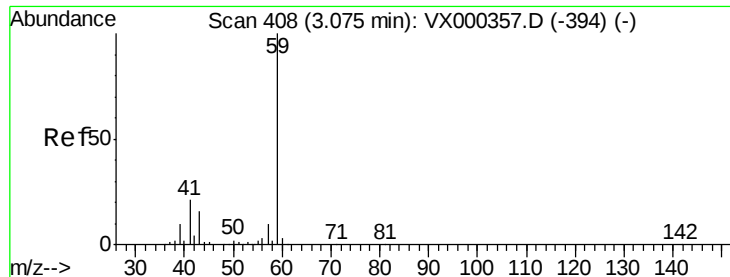


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

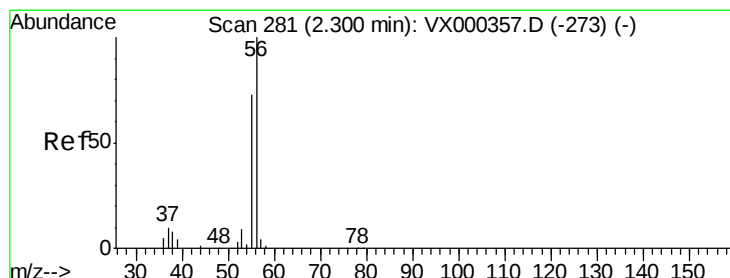
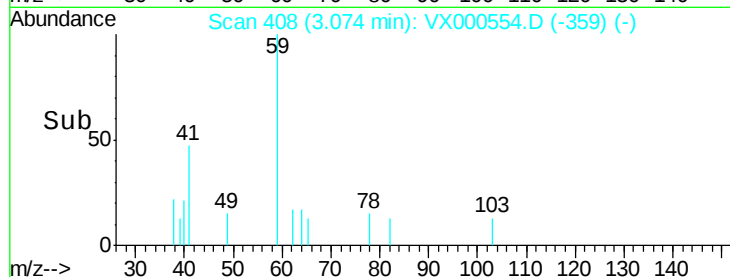
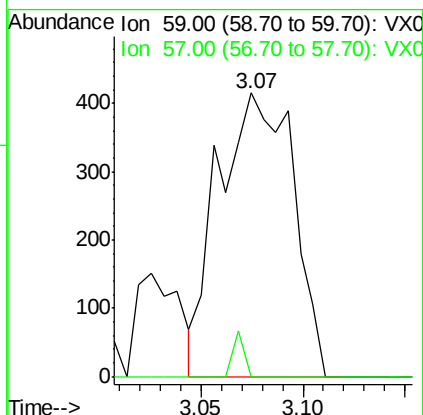
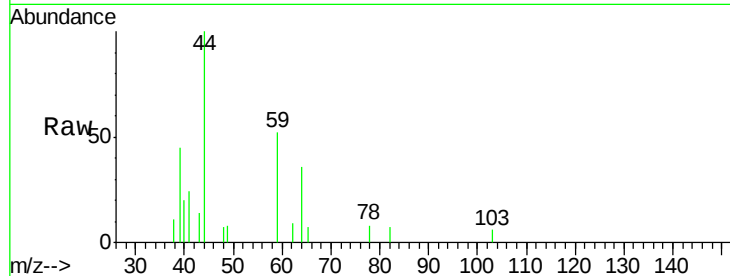




#11
Tert butyl alcohol
Concen: 2.33 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.00 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

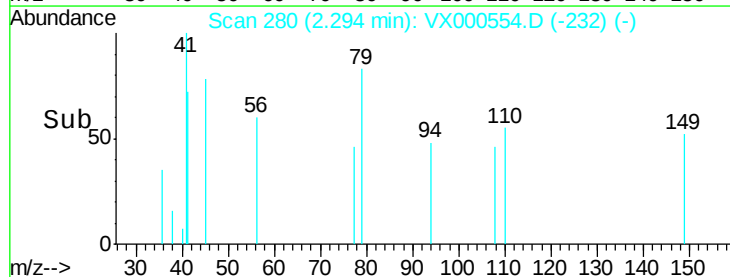
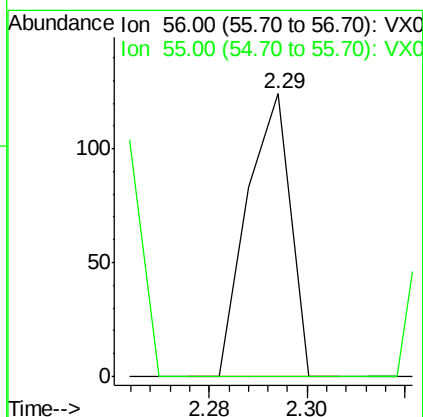
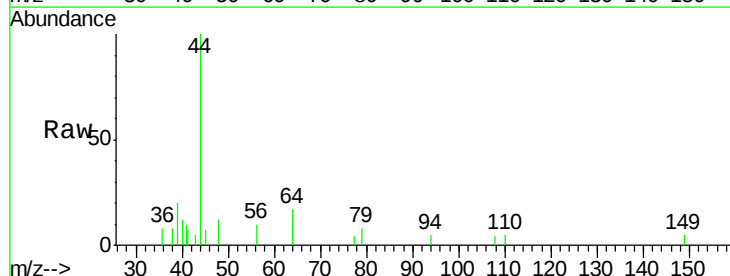
Instrument :
MSVOA_X
ClientSampled :

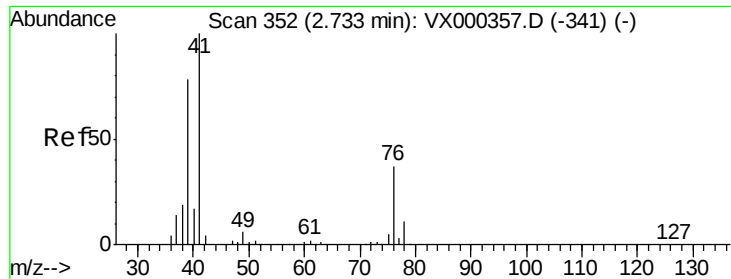
Tot Ion: 59 Resp: 1060
Ion Ratio Lower Upper
59 100
57 2.3 8.4 12.6#



#13
Acrolein
Concen: 15.07 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

Tgt Ion: 56 Resp: 76
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#

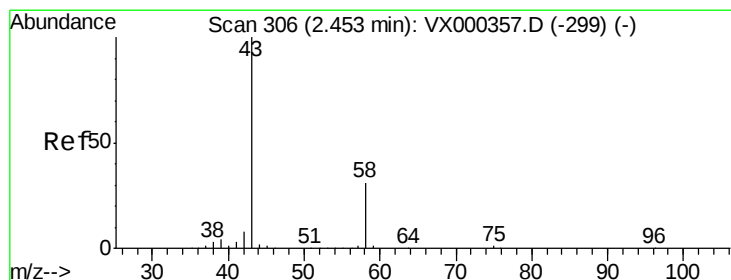
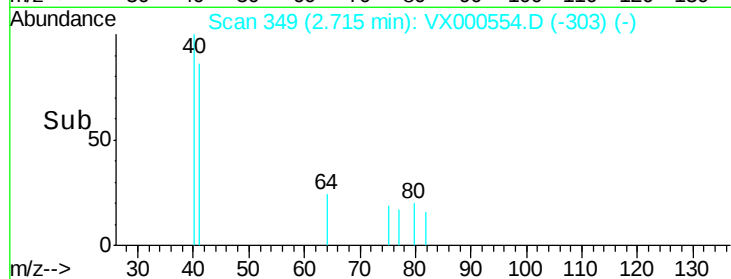
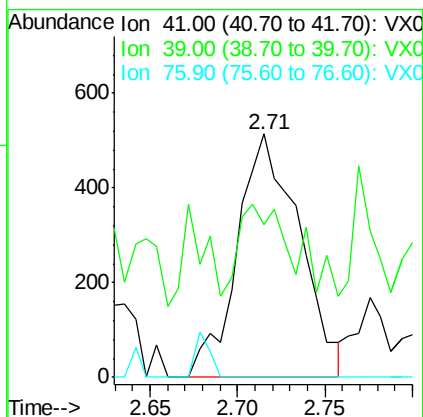
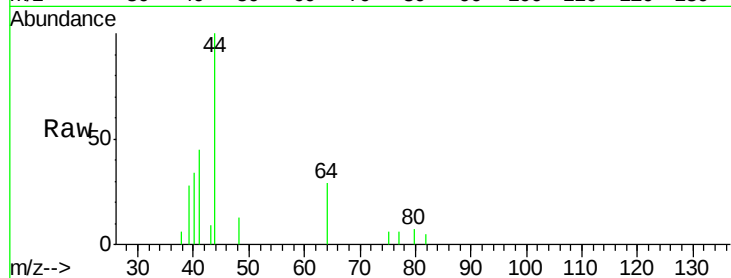




#14
Allvl chloride
Concen: 0.56 ug/l
RT: 2.71 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

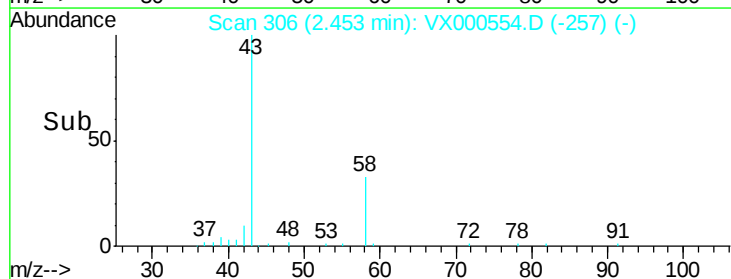
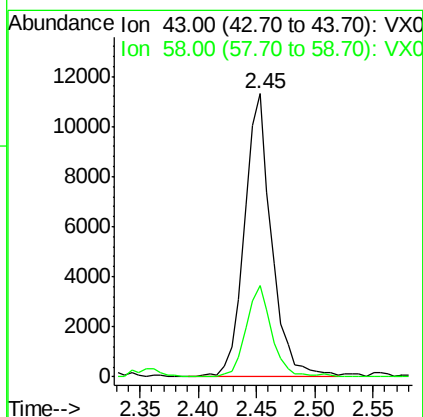
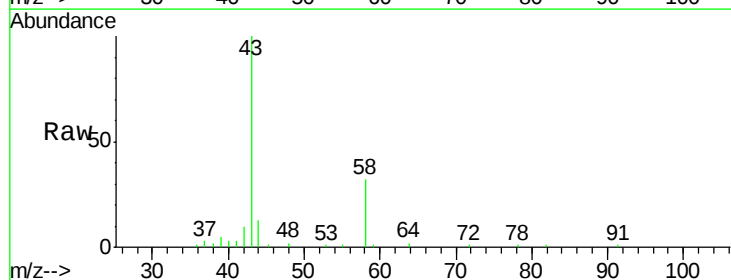
Instrument :
MSVOA_X
ClientSampled :

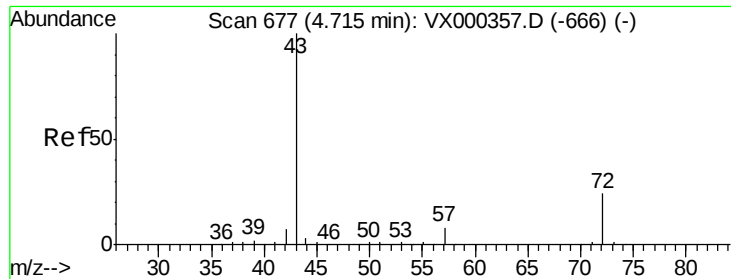
Tot Ion: 41 Resp: 1277
Ion Ratio Lower Upper
41 100
39 28.5 57.6 86.4#
76 0.0 27.3 40.9#



#16
Acetone
Concen: 16.73 ug/l
RT: 2.45 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

Tgt Ion: 43 Resp: 18368
Ion Ratio Lower Upper
43 100
58 32.4 24.7 37.1





#25

2-Butanone

Concen: 2.94 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

Instrument :

MSVOA_X

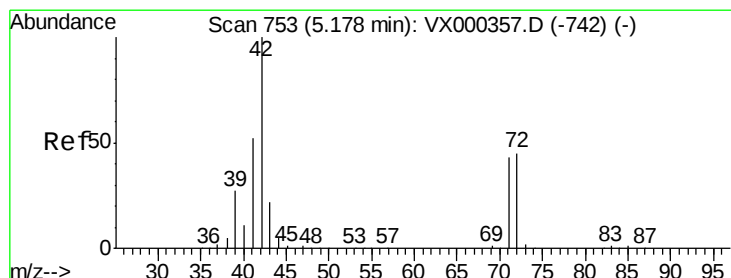
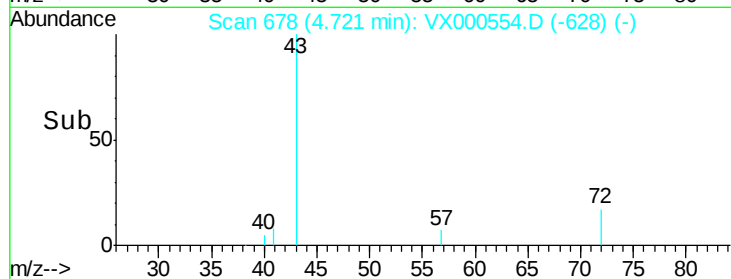
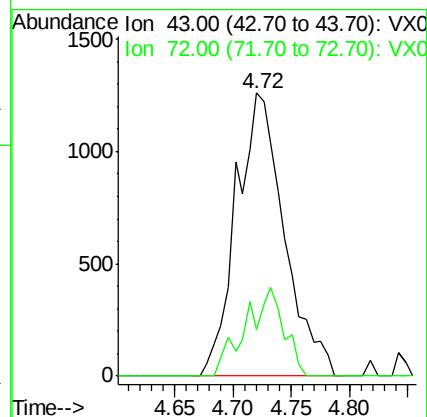
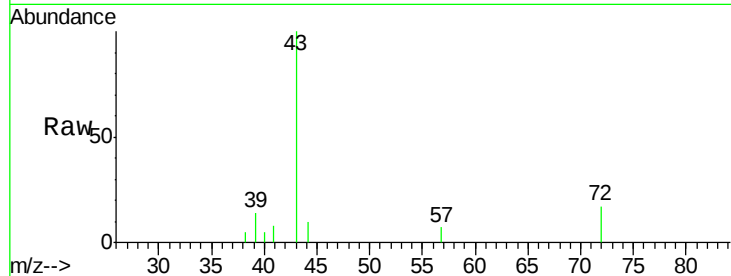
ClientSampled :

Tot Ion: 43 Resp: 3625

Ion Ratio Lower Upper

43 100

72 16.5 21.0 31.6#



#29

Tetrahydrofuran

Concen: 2.94 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.02 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

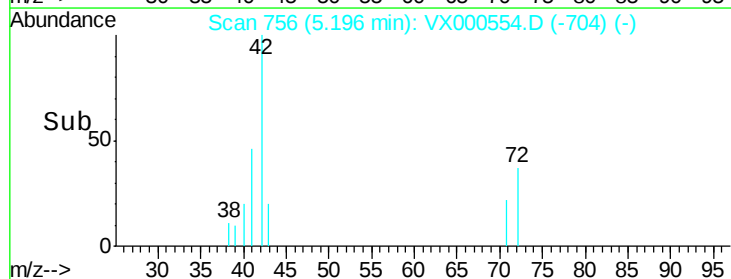
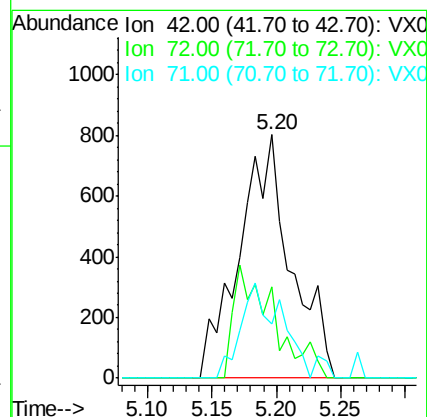
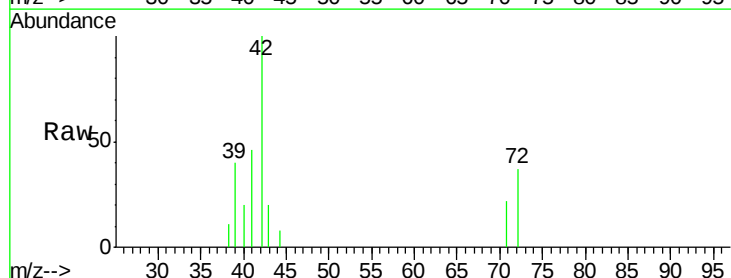
Tgt Ion: 42 Resp: 2236

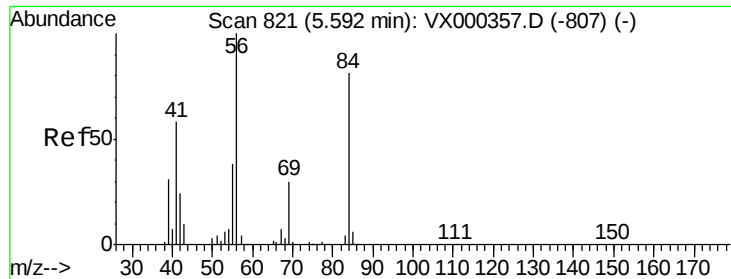
Ion Ratio Lower Upper

42 100

72 0.0 37.9 56.9#

71 0.0 34.4 51.6#

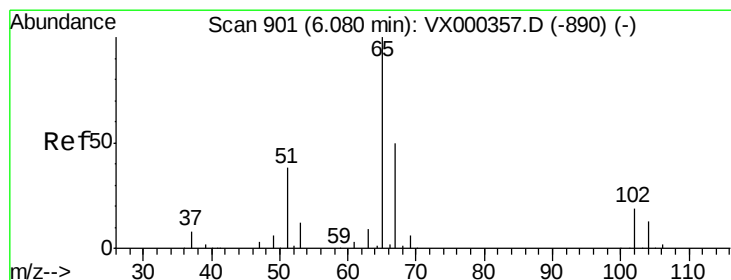
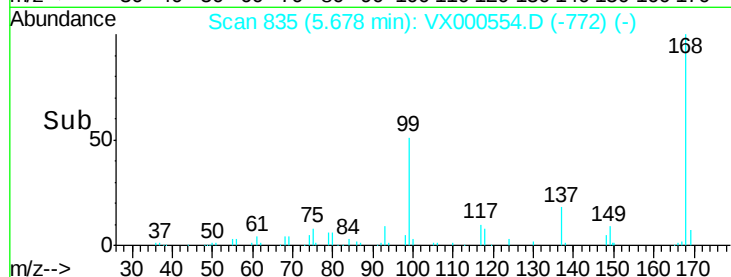
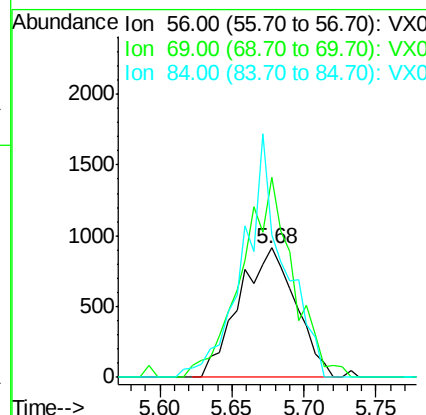
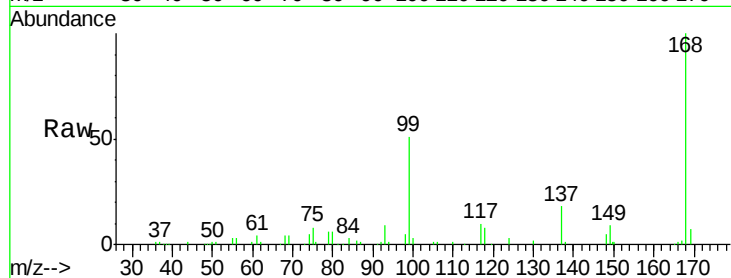




#31
Cyclohexane
Concen: 1.50 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.09 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

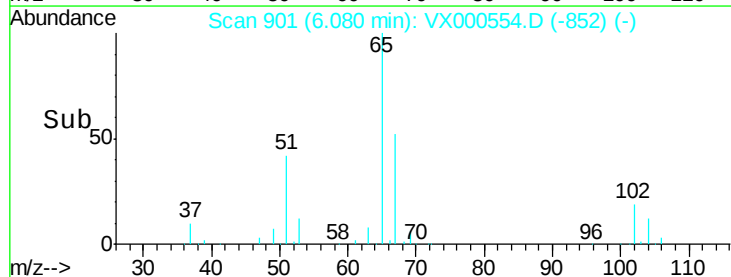
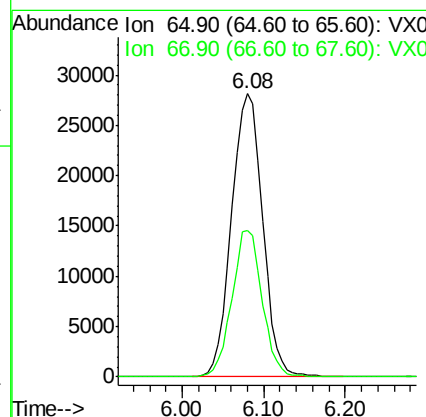
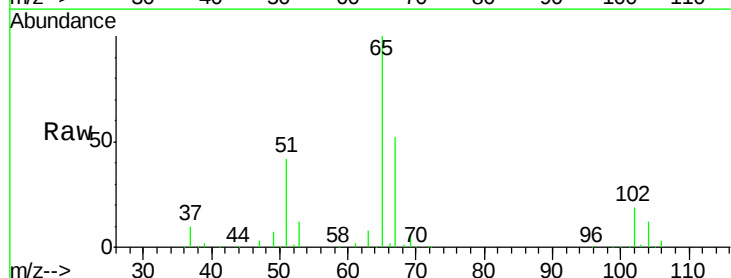
Instrument :
MSVOA_X
ClientSampled :

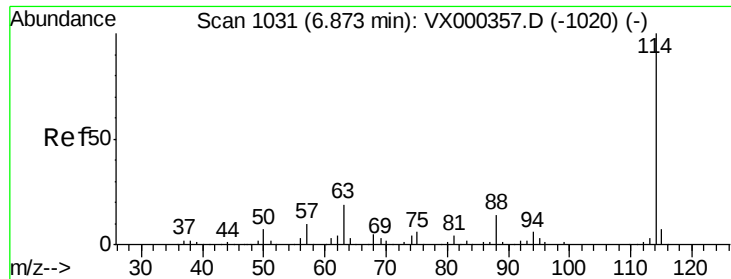
Tot Ion: 56 Resp: 2502
Ion Ratio Lower Upper
56 100
69 146.9 23.4 35.0#
84 110.4 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 56.16 ug/l
RT: 6.08 min Scan# 901
Delta R.T. 0.00 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

Tgt Ion: 65 Resp: 74143
Ion Ratio Lower Upper
65 100
67 50.1 0.0 103.2

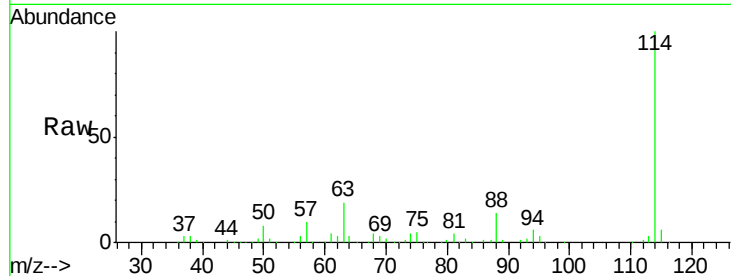




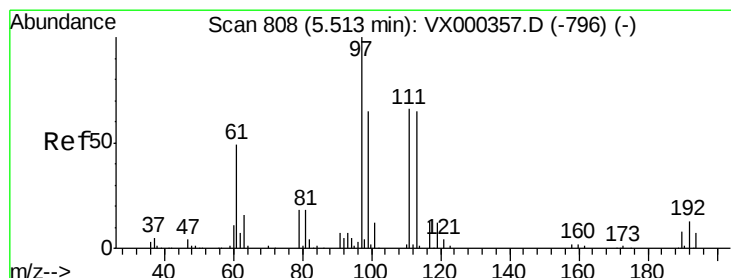
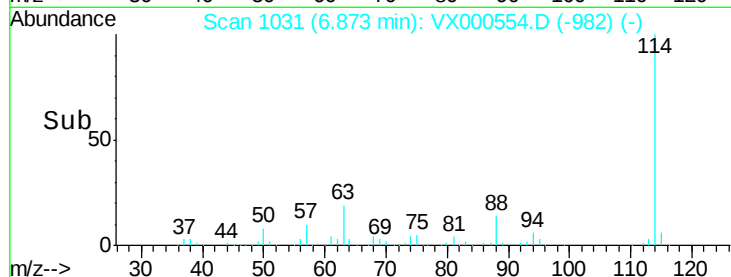
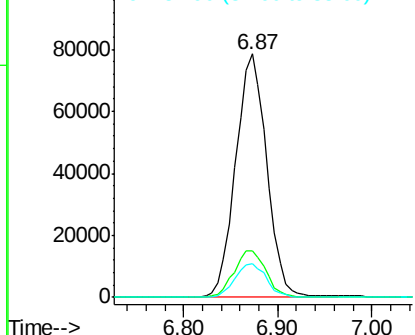
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000554.D
 Acq: 30 Mar 2018 09:50

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:114 Resp: 181428
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.4
 88 13.8 0.0 27.0

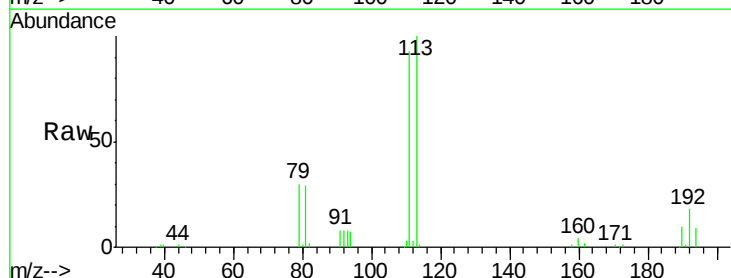


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

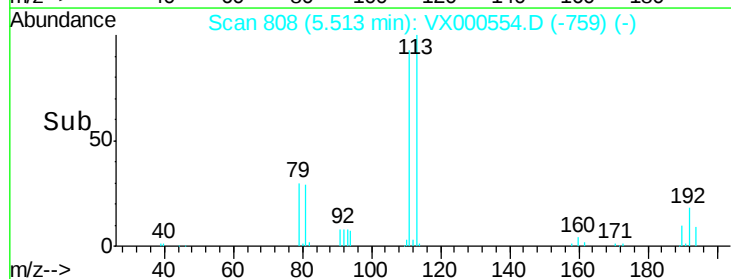
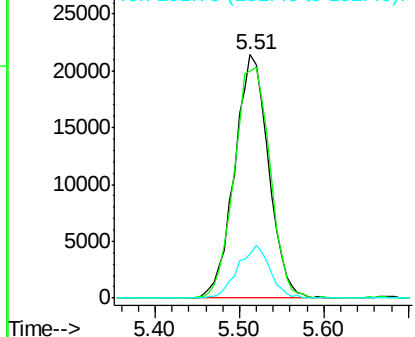


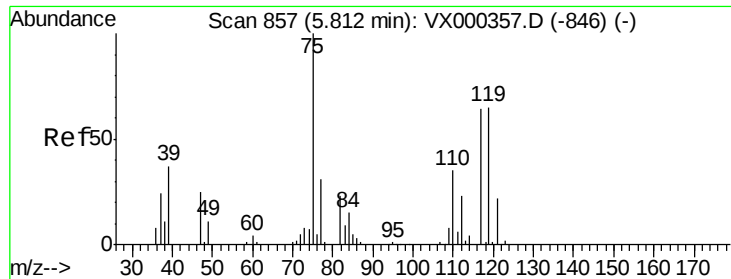
#35
 Dibromofluoromethane
 Concen: 50.95 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX000554.D
 Acq: 30 Mar 2018 09:50

Tgt Ion:113 Resp: 58244
 Ion Ratio Lower Upper
 113 100
 111 100.4 82.4 123.6
 192 20.4 15.8 23.6



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

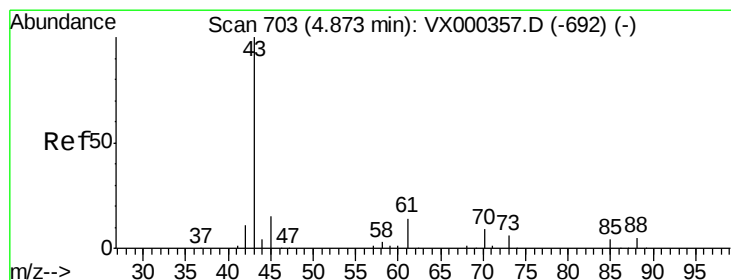
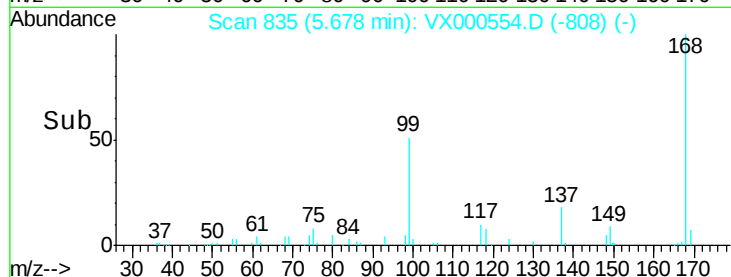
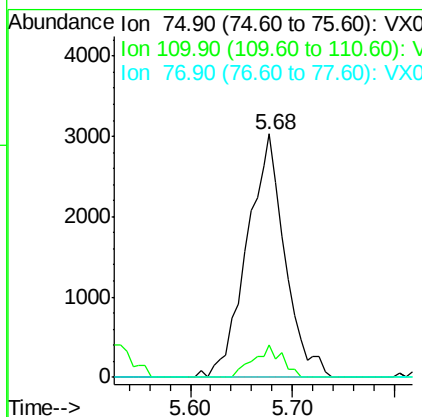
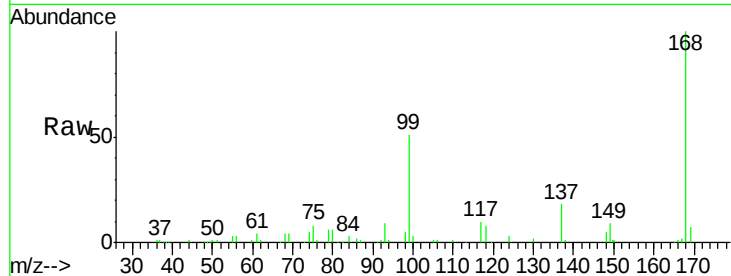




#36
 1,1-Dichloropropene
 Concen: 4.60 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.13 min
 Lab File: VX000554.D
 Acq: 30 Mar 2018 09:50

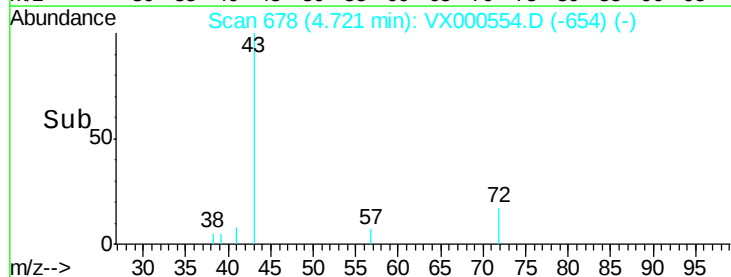
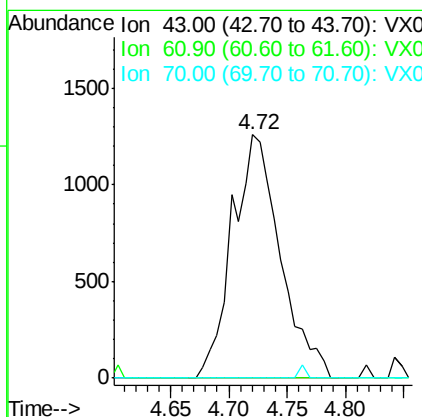
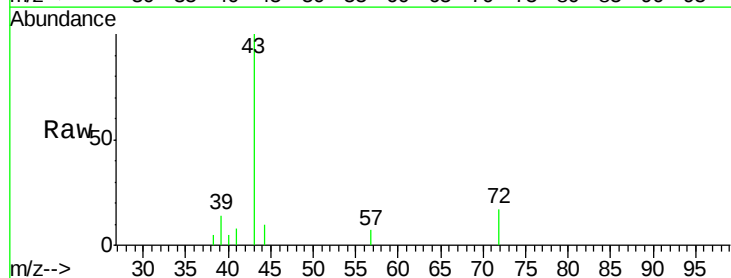
Instrument :
 MSVOA_X
 ClientSampled :

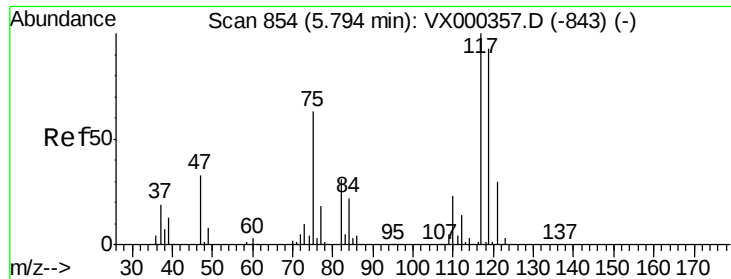
Tot Ion: 75 Resp: 7810
 Ion Ratio Lower Upper
 75 100
 110 9.9 17.9 53.7#
 77 0.0 24.0 36.0#



#37
 Ethyl Acetate
 Concen: 1.56 ug/l
 RT: 4.72 min Scan# 678
 Delta R.T. -0.15 min
 Lab File: VX000554.D
 Acq: 30 Mar 2018 09:50

Tgt Ion: 43 Resp: 3625
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.1 16.7#
 70 0.0 7.7 11.5#

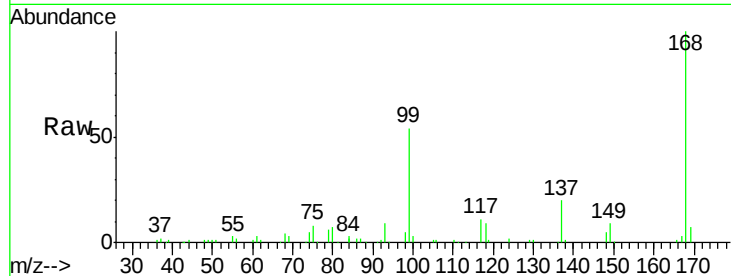




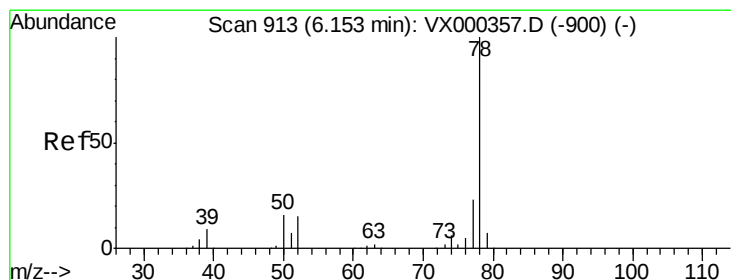
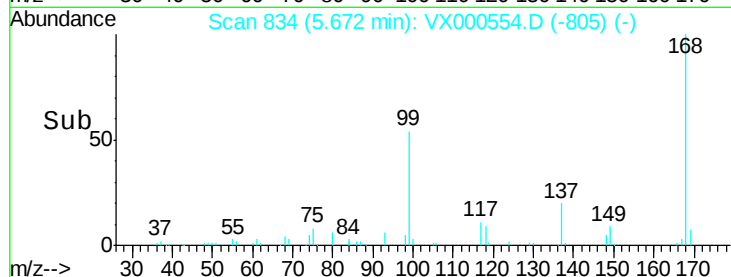
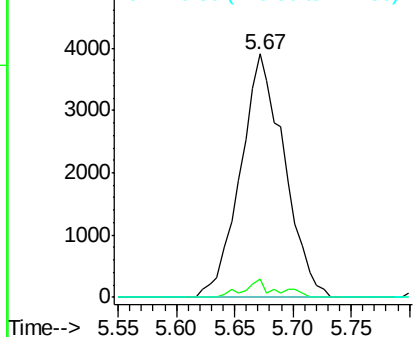
#38
Carbon Tetrachloride
Concen: 5.73 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 10219
Ion Ratio Lower Upper
117 100
119 7.5 77.4 116.2#
121 0.0 24.8 37.2#

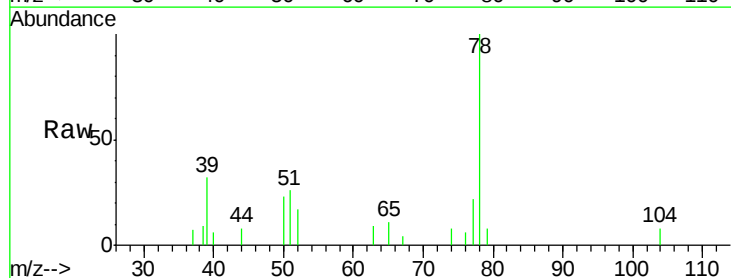


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

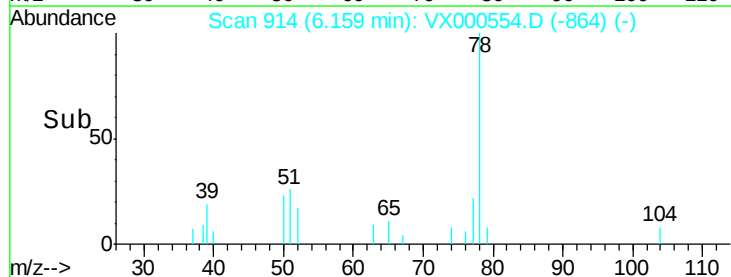
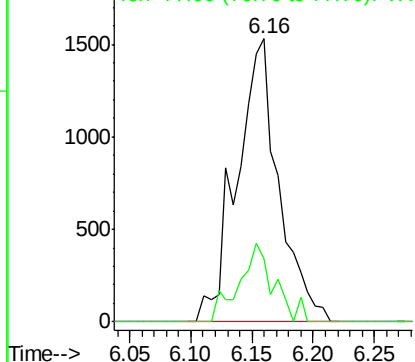


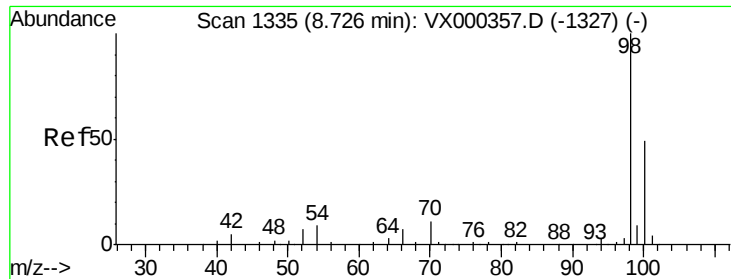
#40
Benzene
Concen: 0.74 ug/l
RT: 6.16 min Scan# 914
Delta R.T. 0.01 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

Tgt Ion: 78 Resp: 3650
Ion Ratio Lower Upper
78 100
77 22.4 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 47.84 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

Instrument :

MSVOA_X

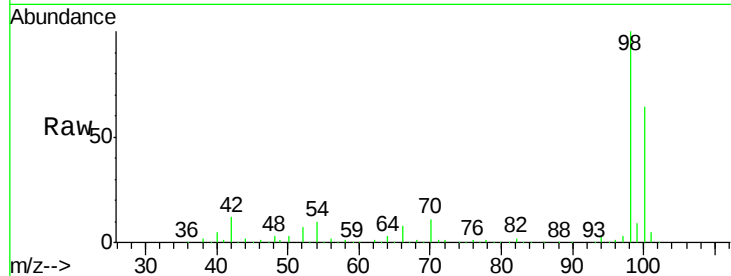
ClientSampleId :

Tot Ion: 98 Resp: 226485

Ion Ratio Lower Upper

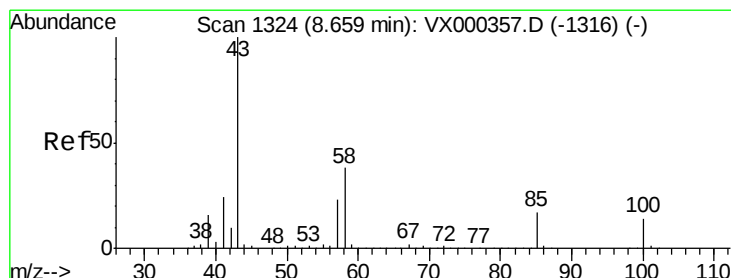
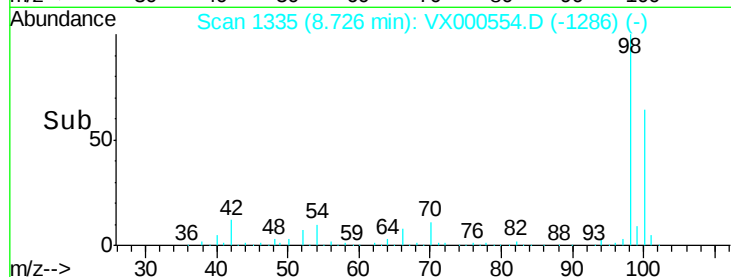
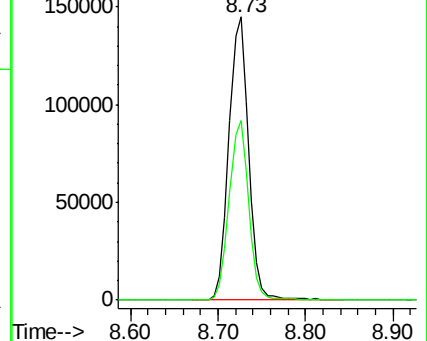
98 100

100 62.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.75 ug/l

RT: 8.66 min Scan# 1325

Delta R.T. 0.01 min

Lab File: VX000554.D

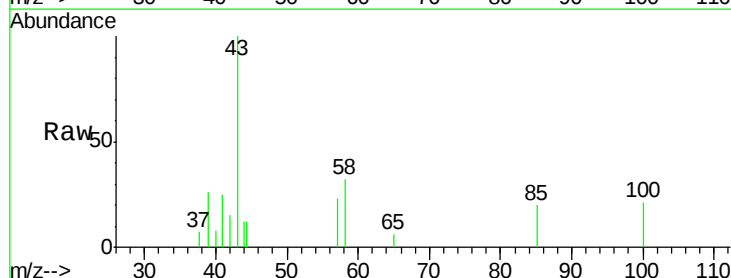
Acq: 30 Mar 2018 09:50

Tgt Ion: 43 Resp: 2002

Ion Ratio Lower Upper

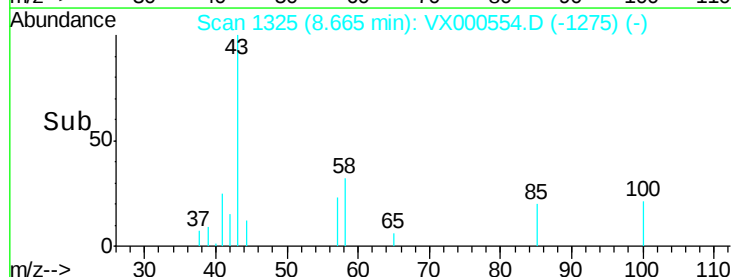
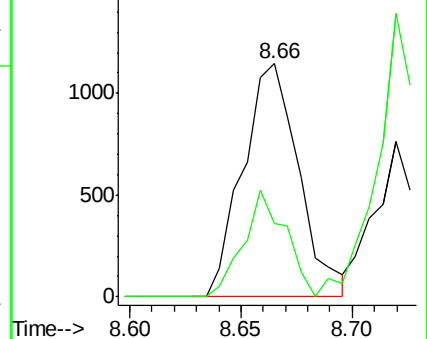
43 100

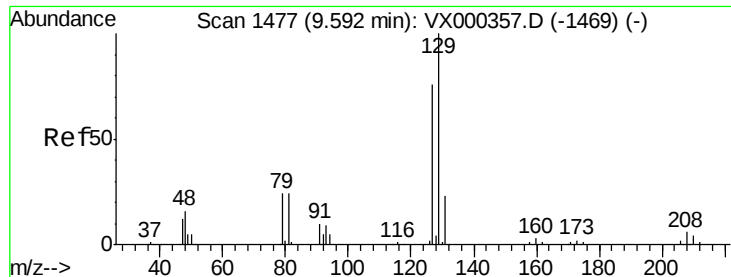
58 34.3 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#60

Dibromochloromethane

Concen: 4.15 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.26 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

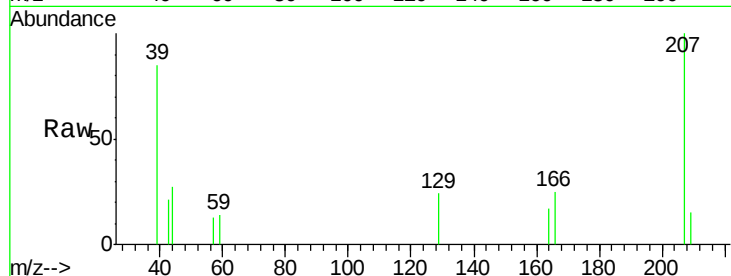
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 67

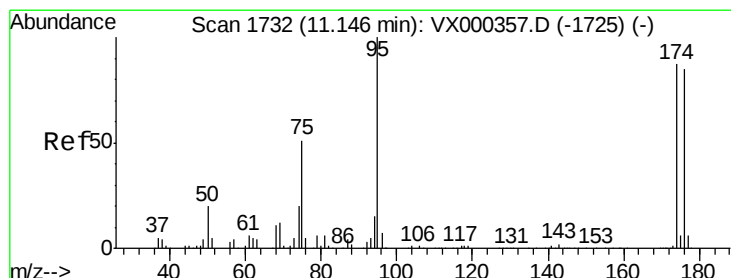
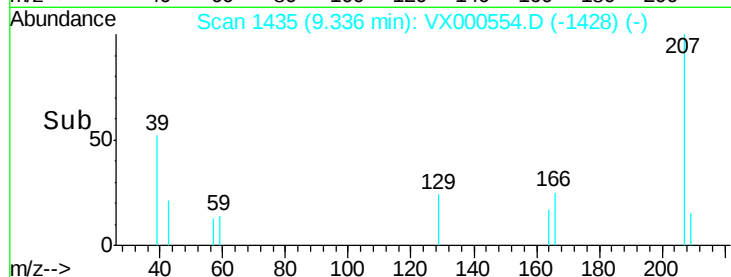
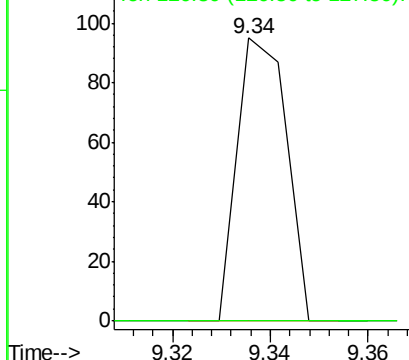
Ion Ratio Lower Upper

129 100

127 0.0 37.9 113.6#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 40.96 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

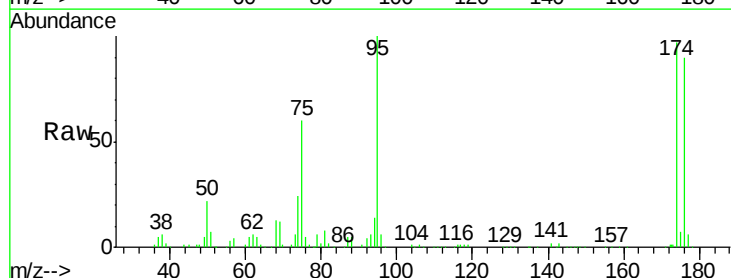
Tgt Ion: 95 Resp: 79406

Ion Ratio Lower Upper

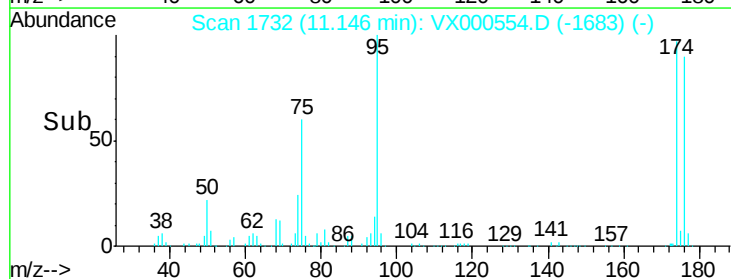
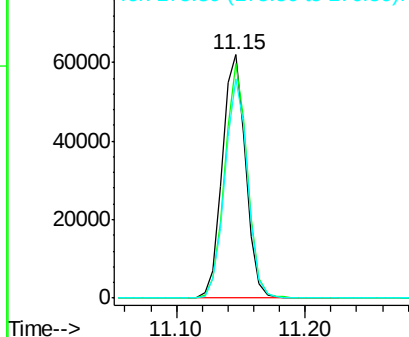
95 100

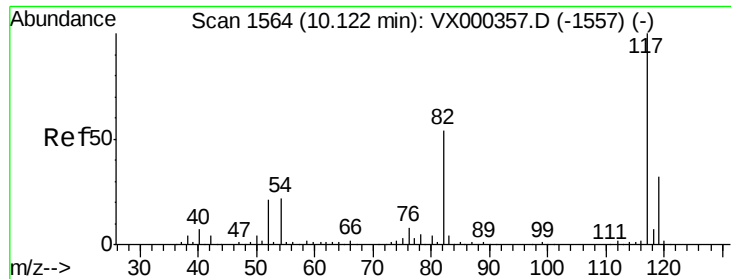
174 93.1 0.0 173.6

176 88.0 0.0 164.6



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

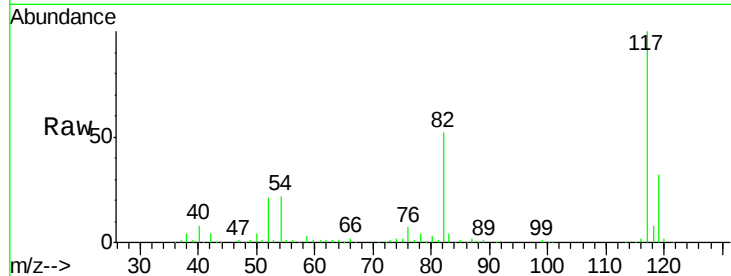




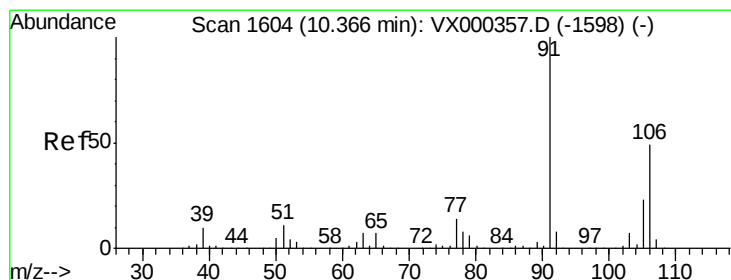
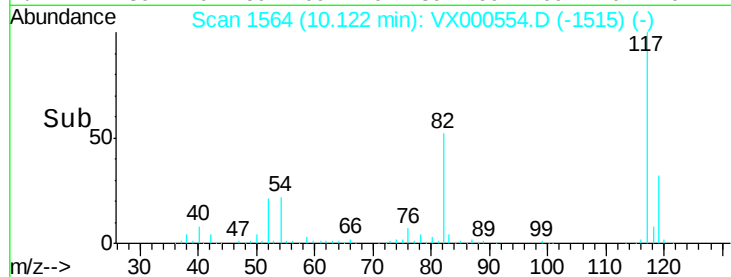
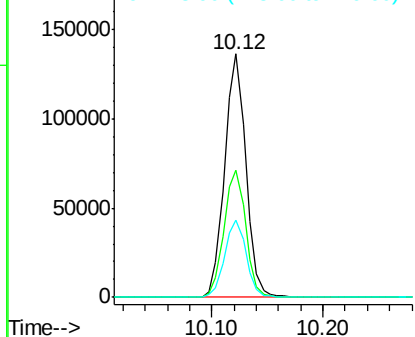
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 180453
Ion Ratio Lower Upper
117 100
82 52.1 43.8 65.8
119 31.7 24.9 37.3

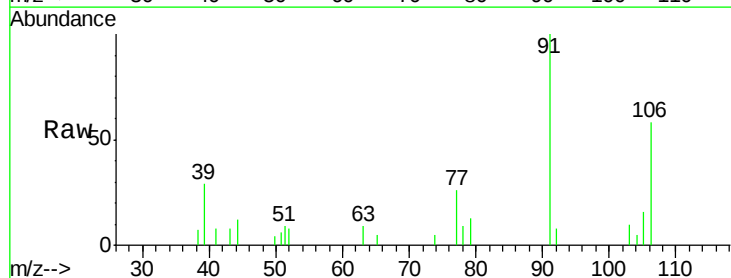


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

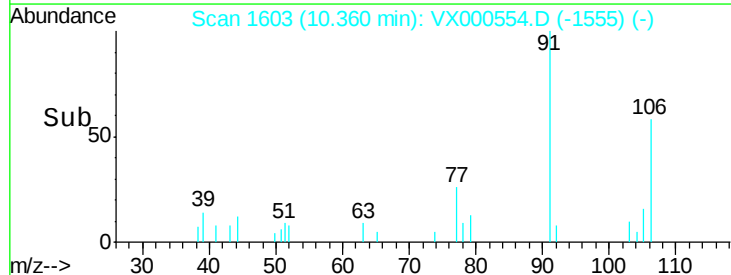
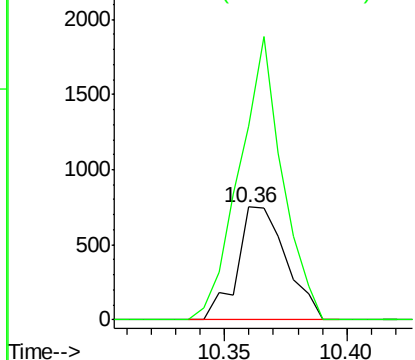


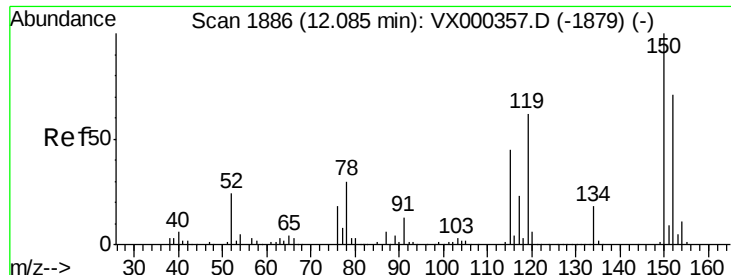
#68
m/p-Xylenes
Concen: 0.39 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

Tgt Ion:106 Resp: 1040
Ion Ratio Lower Upper
106 100
91 221.9 163.4 245.2



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

Instrument :

MSVOA_X

ClientSampleId :

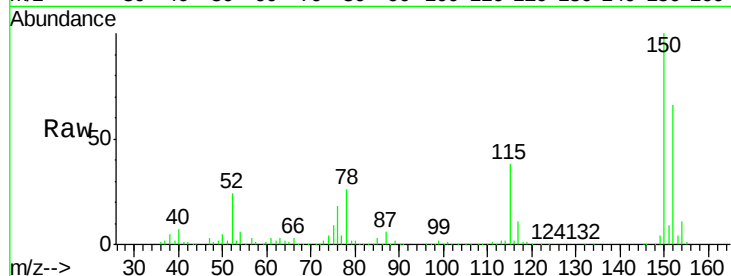
Tot Ion:152 Resp: 96886

Ion Ratio Lower Upper

152 100

115 56.9 39.8 119.3

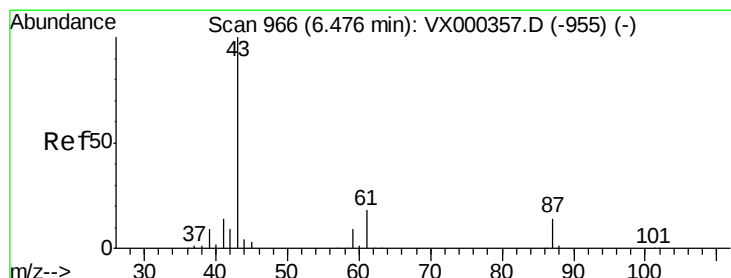
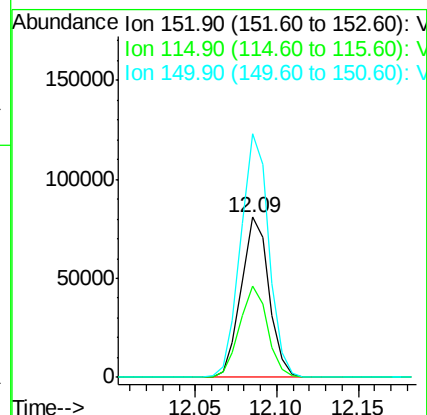
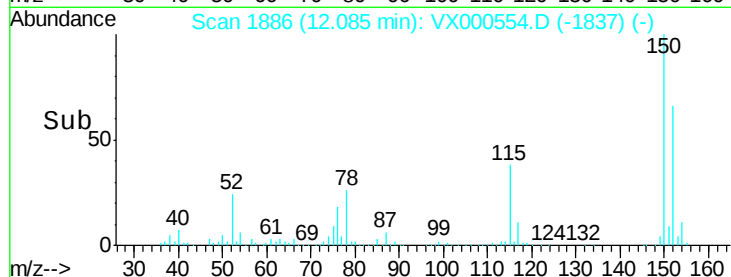
150 153.5 0.0 344.4



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



#74

N-amil acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

Tgt Ion: 43 Resp: 81

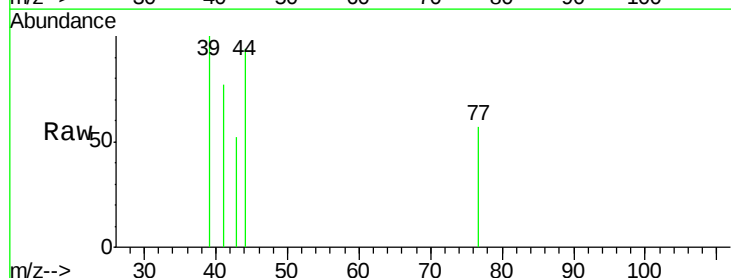
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 0.0 14.4 21.6#

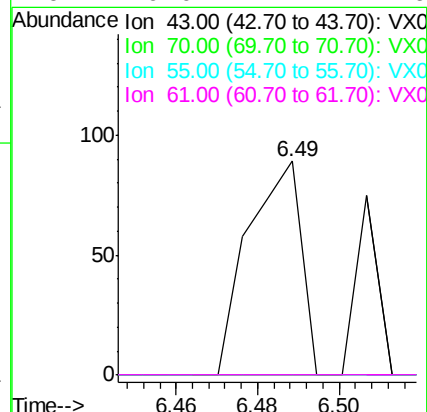
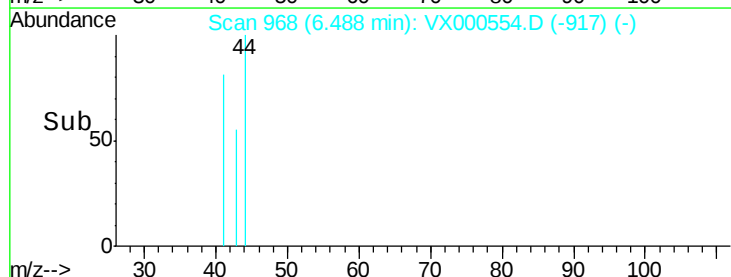


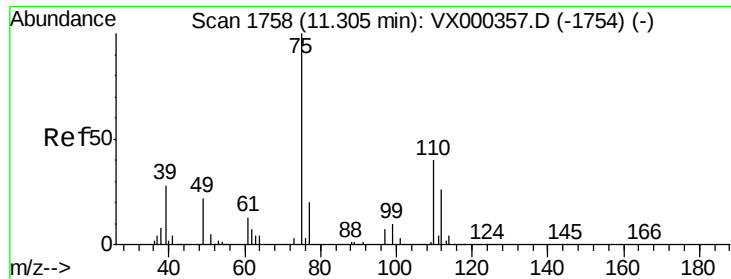
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.94 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

Instrument :

MSVOA_X

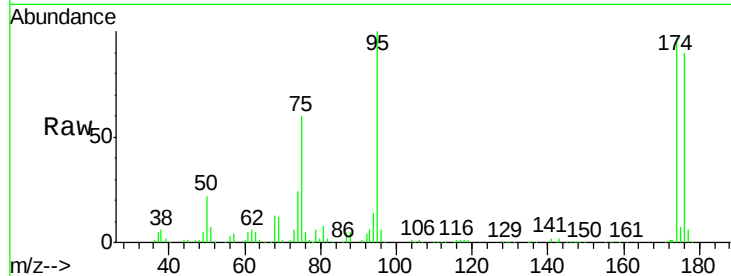
ClientSampleId :

Tot Ion: 75 Resp: 45679

Ion Ratio Lower Upper

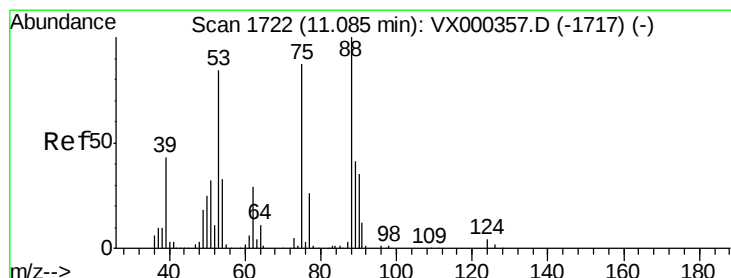
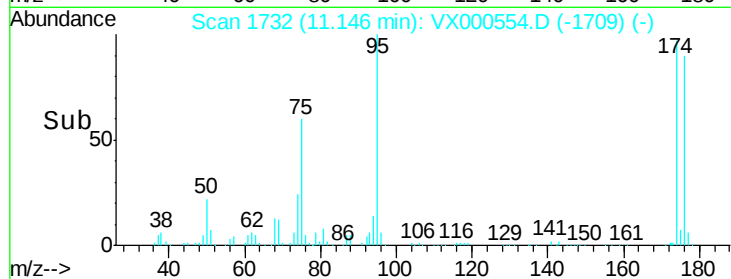
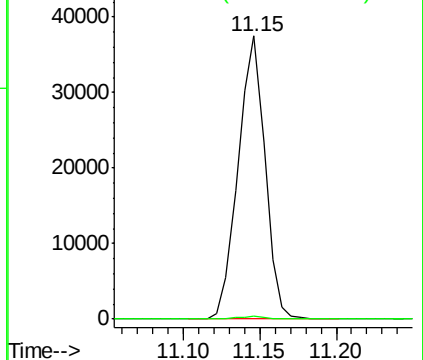
75 100

77 1.1 21.4 64.2#



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: 71.03 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000554.D

Acq: 30 Mar 2018 09:50

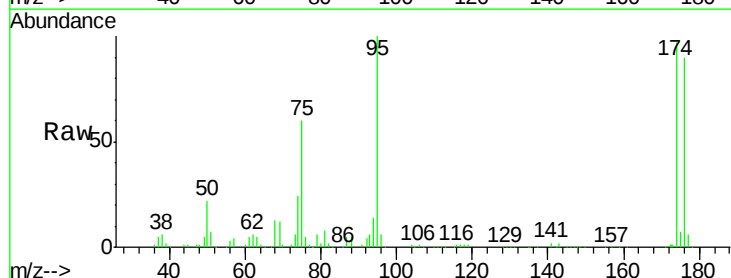
Tgt Ion: 75 Resp: 45679

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

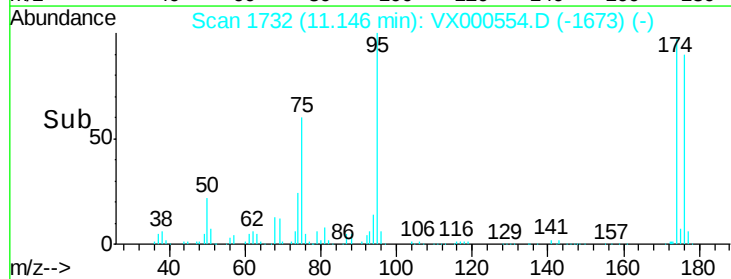
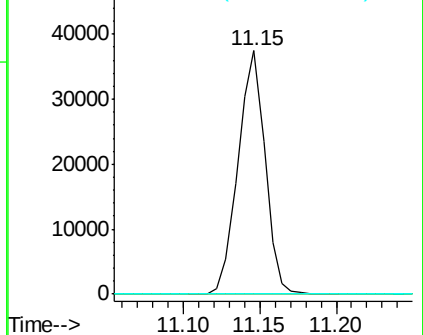
89 0.0 39.4 59.0#

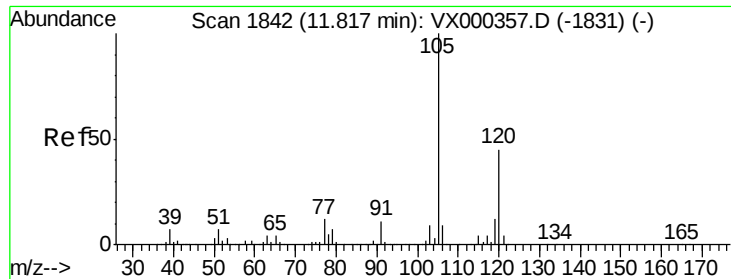


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

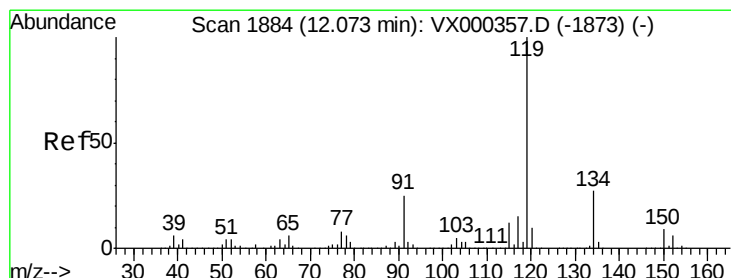
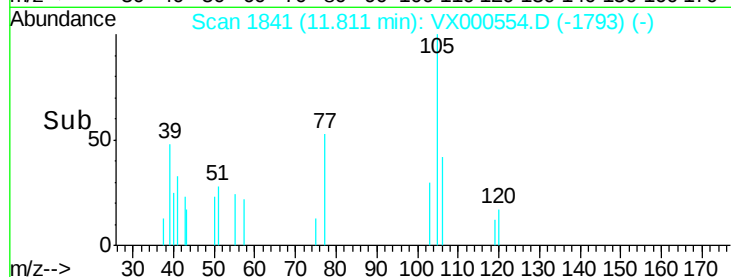
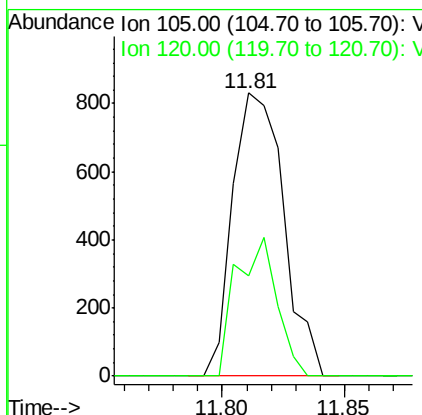
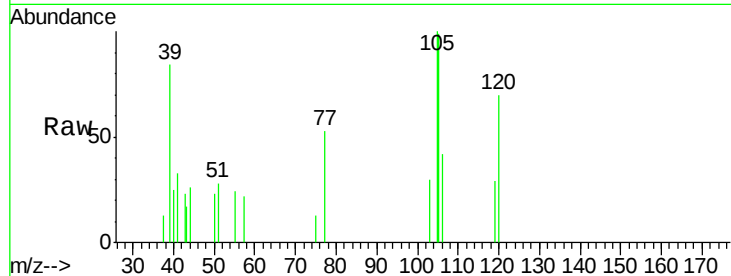




#84
 1,2,4-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: VX000554.D
 Acq: 30 Mar 2018 09:50

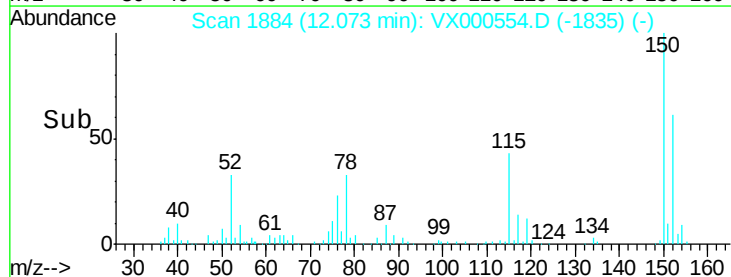
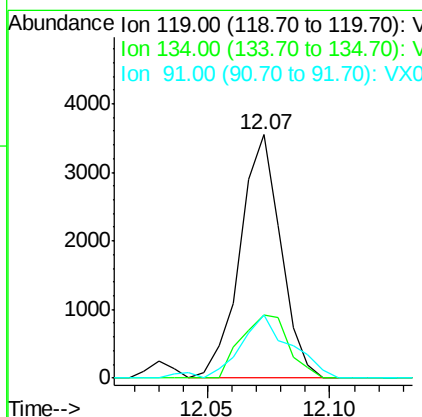
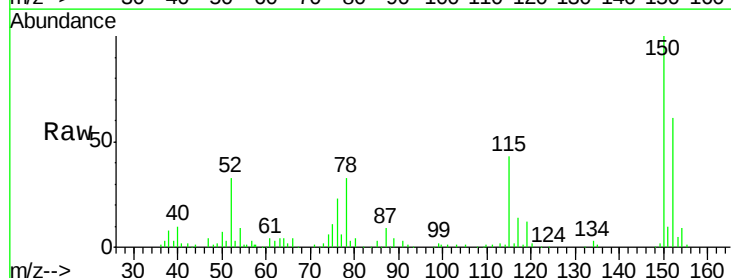
Instrument :
 MSVOA_X
 ClientSampled :

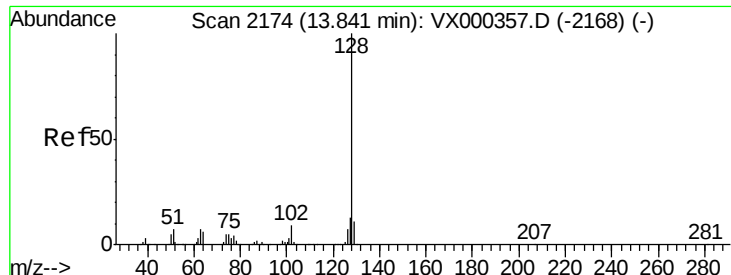
Tot Ion:105 Resp: 1210
 Ion Ratio Lower Upper
 105 100
 120 38.8 22.4 67.3



#86
 p-Isopropyltoluene
 Concen: 0.69 ug/l
 RT: 12.07 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VX000554.D
 Acq: 30 Mar 2018 09:50

Tgt Ion:119 Resp: 4119
 Ion Ratio Lower Upper
 119 100
 134 30.2 13.3 39.9
 91 32.4 12.0 36.1

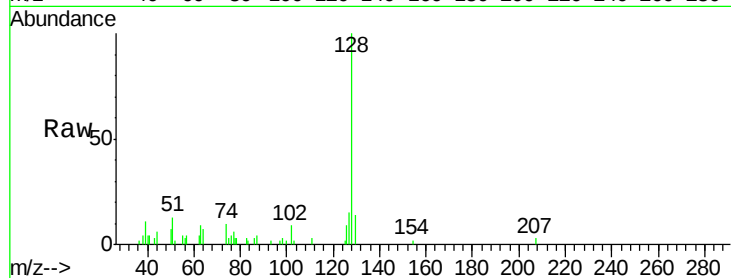




#95
Naphthalene
Concen: 0.57 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX000554.D
Acq: 30 Mar 2018 09:50

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.6	15.8
129	10.3	8.9	13.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

