

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX033118\
 Data File : VX000604.D
 Acq On : 31 Mar 2018 19:59
 Operator : JC/MD
 Sample : J2150-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 05:20:44 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	5.67	168	115404	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	192740	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	189613	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	103226	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	77810	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
35) Dibromofluoromethane	5.51	113	60896	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
50) Toluene-d8	8.73	98	239035	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	
62) 4-Bromofluorobenzene	11.15	95	86113	41.69	ug/l	0.00
Spiked Amount			Recovery	=	83.38%	

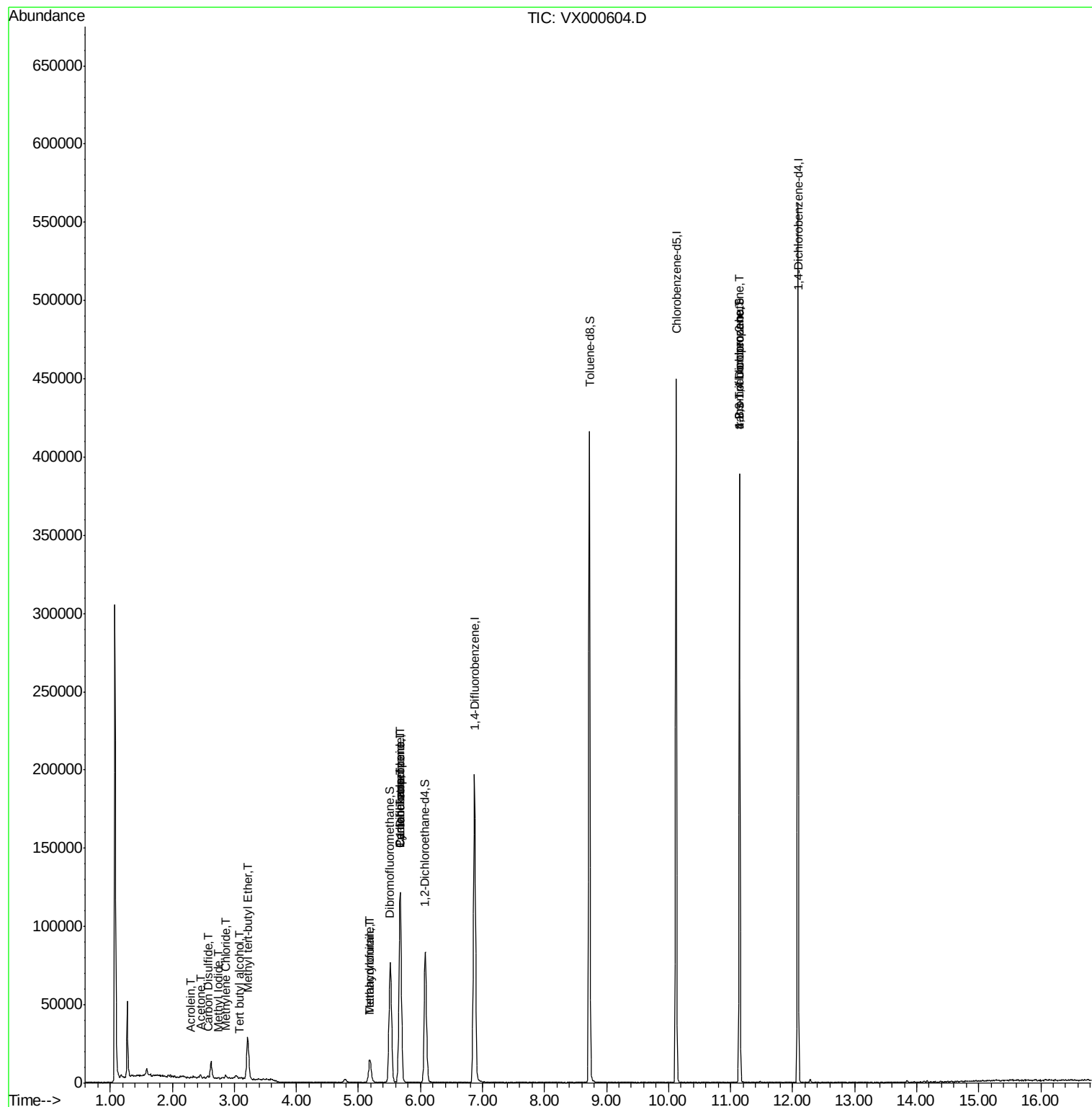
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	694	Below Cal	#	60
10) Methyl Iodide	2.74	142	22	4.290	ug/l #	37
11) Tert butyl alcohol	3.07	59	712	1.374	ug/l #	72
13) Acrolein	2.30	56	25	14.720	ug/l #	1
16) Acetone	2.45	43	2379	1.898	ug/l	100
17) Carbon Disulfide	2.57	76	977	0.309	ug/l #	76
19) Methyl tert-butyl Ether	3.21	73	28262	6.109	ug/l	97
20) Methylene Chloride	2.87	84	789	0.545	ug/l #	61
29) Tetrahydrofuran	5.18	42	12629	14.572	ug/l #	79
31) Cyclohexane	5.67	56	2873	1.512	ug/l #	22
36) 1,1-Dichloropropene	5.67	75	8671	4.803	ug/l #	52
38) Carbon Tetrachloride	5.67	117	11577	6.112	ug/l #	16
41) Methacrylonitrile	5.18	41	7912	6.085	ug/l #	49
74) N-amyl acetate	6.49	43	30	Below Cal	#	59
76) 1,2,3-Trichloropropane	11.15	75	48641	21.926	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	48641	70.986	ug/l #	9

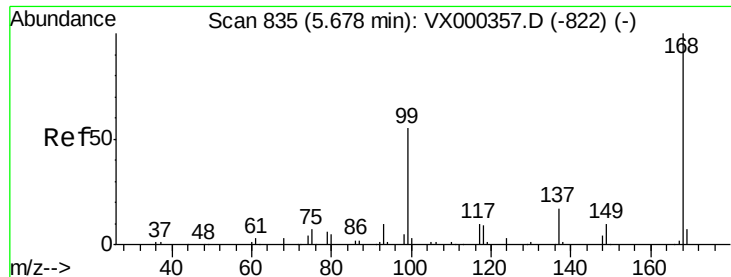
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000604.D

Acq: 31 Mar 2018 19:59

Instrument :

MSVOA_X

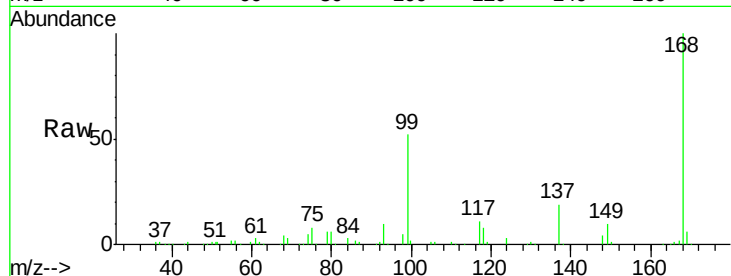
ClientSampled :

Tot Ion:168 Resp: 115404

Ion Ratio Lower Upper

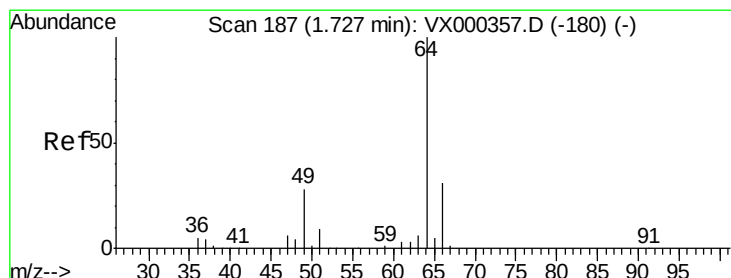
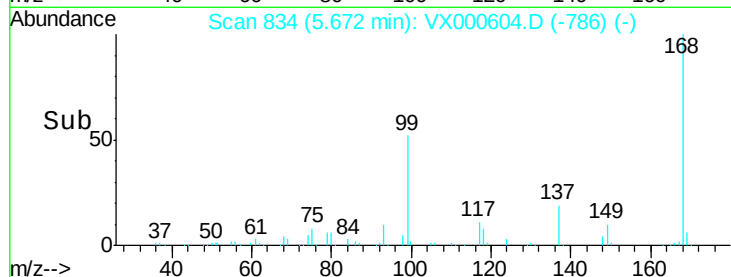
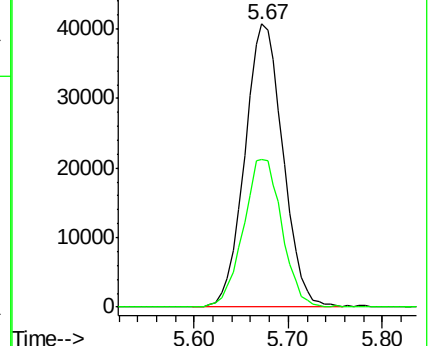
168 100

99 52.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX000604.D

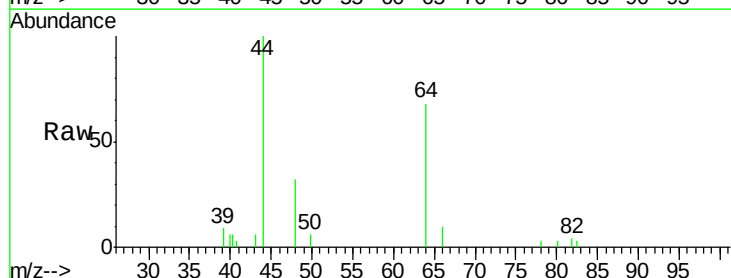
Acq: 31 Mar 2018 19:59

Tgt Ion: 64 Resp: 694

Ion Ratio Lower Upper

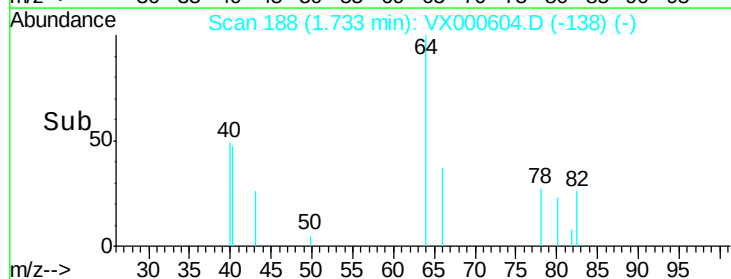
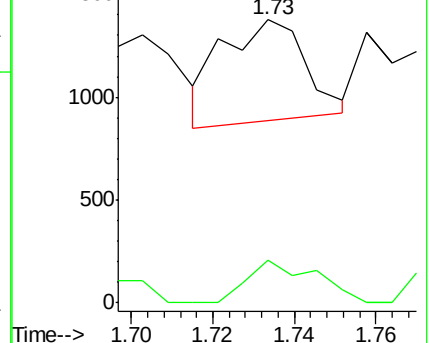
64 100

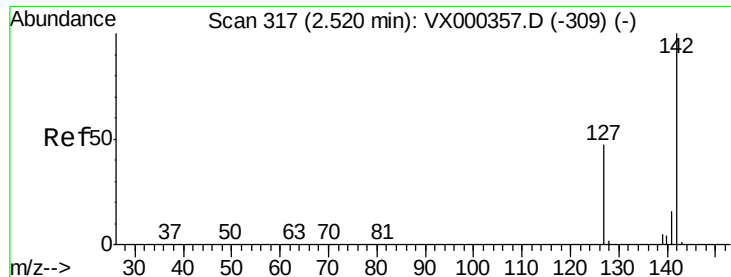
66 52.9 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

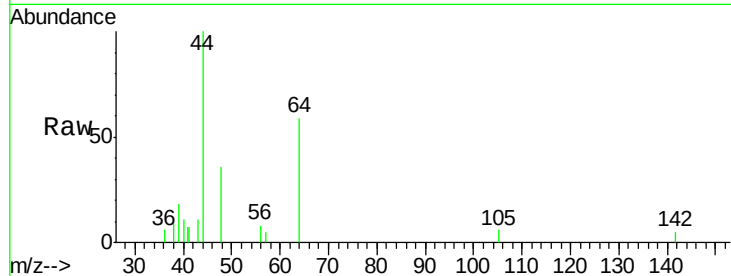




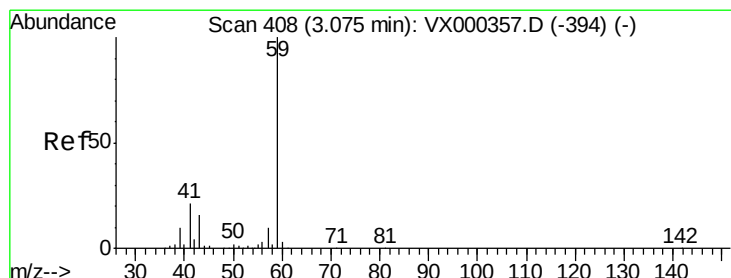
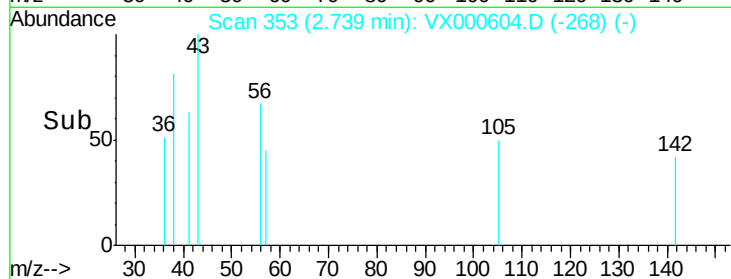
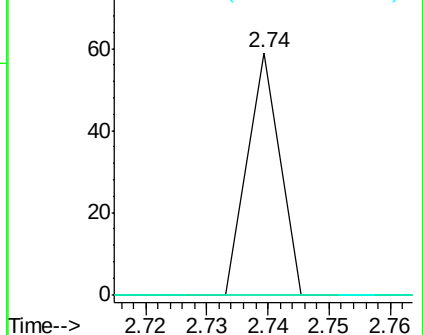
#10
Methyl Iodide
Concen: 4.290 ug/l
RT: 2.74 min Scan# 353
Delta R.T. 0.22 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 22
Ion Ratio Lower Upper
142 100
127 0.0 39.2 58.8#
141 0.0 11.7 17.5#

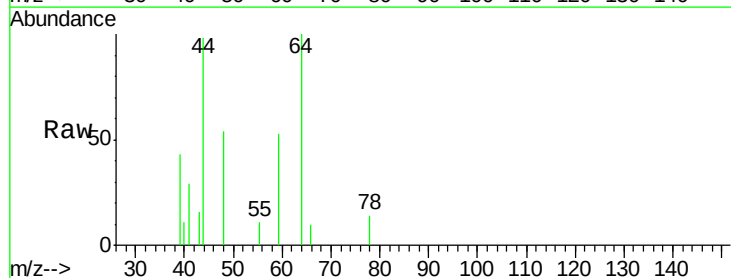


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

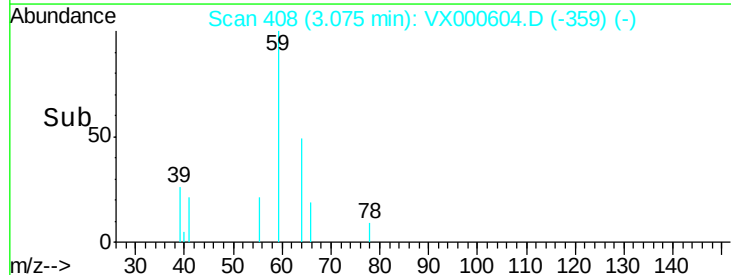
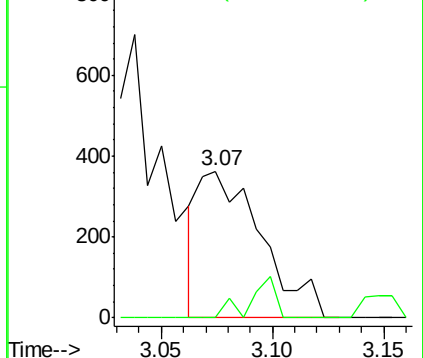


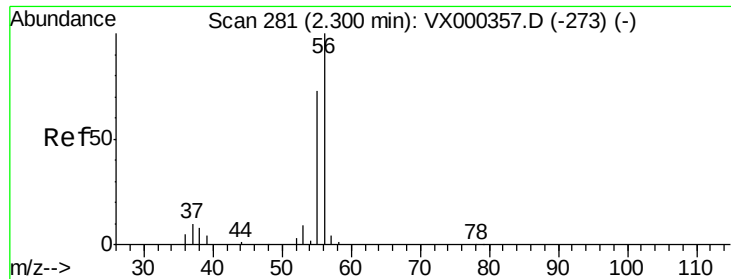
#11
Tert butyl alcohol
Concen: 1.374 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.00 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

Tgt Ion: 59 Resp: 712
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



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





#13

Acrolein

Concen: 14.720 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX000604.D

Acq: 31 Mar 2018 19:59

Instrument :

MSVOA_X

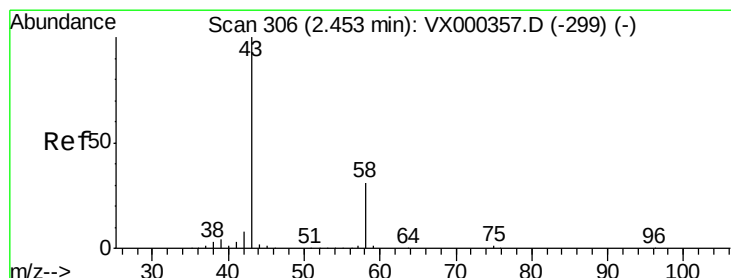
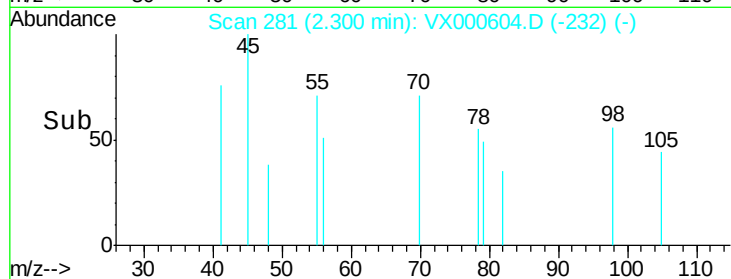
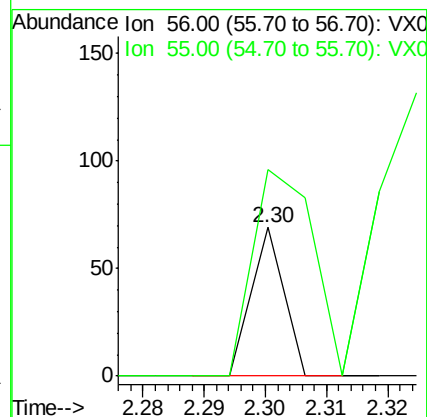
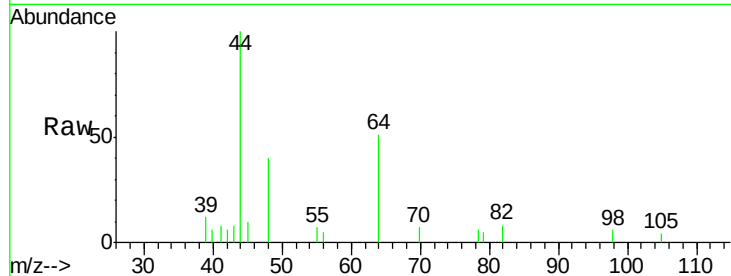
ClientSampled :

Tot Ion: 56 Resp: 25

Ion Ratio Lower Upper

56 100

55 260.0 58.8 88.2#



#16

Acetone

Concen: 1.898 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000604.D

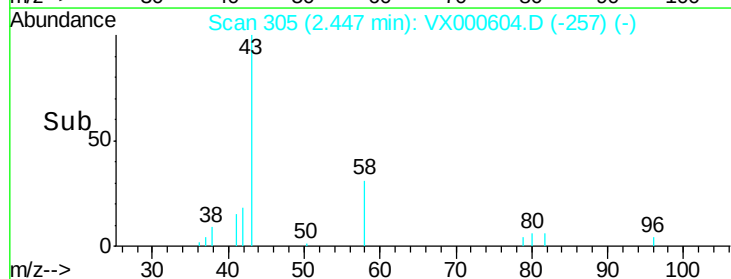
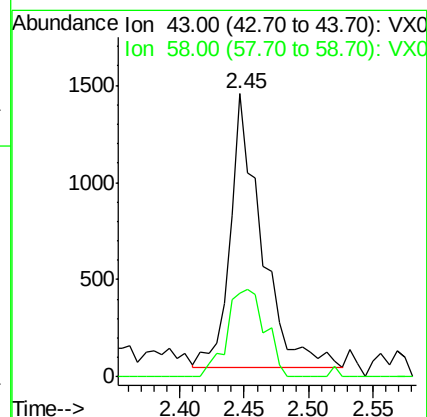
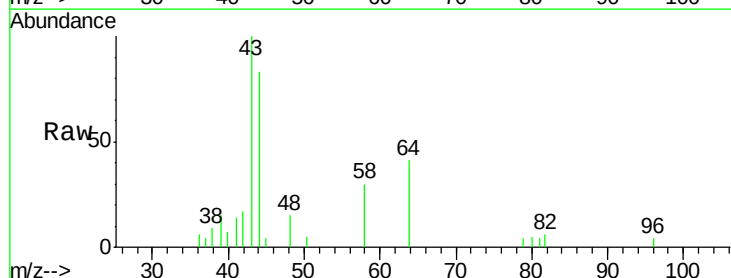
Acq: 31 Mar 2018 19:59

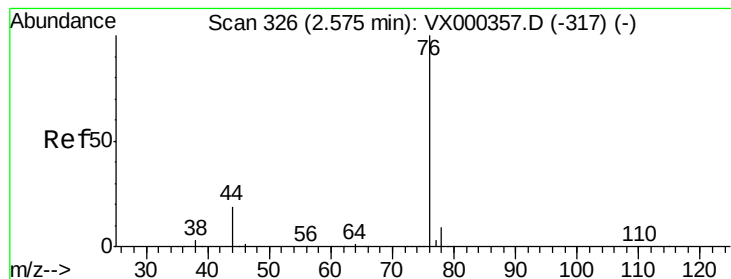
Tgt Ion: 43 Resp: 2379

Ion Ratio Lower Upper

43 100

58 30.8 24.7 37.1





#17

Carbon Disulfide

Concen: 0.309 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX000604.D

Acq: 31 Mar 2018 19:59

Instrument :

MSVOA_X

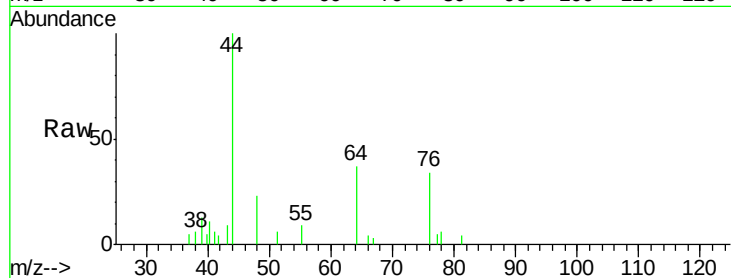
ClientSampleId :

Tot Ion: 76 Resp: 977

Ion Ratio Lower Upper

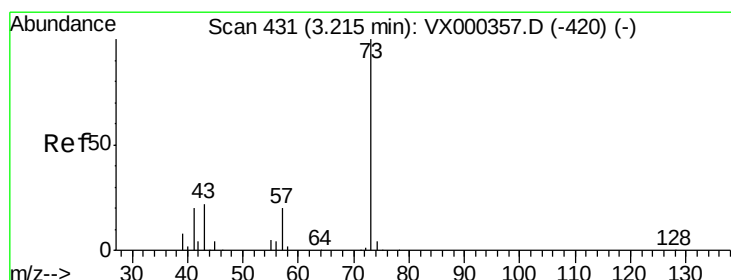
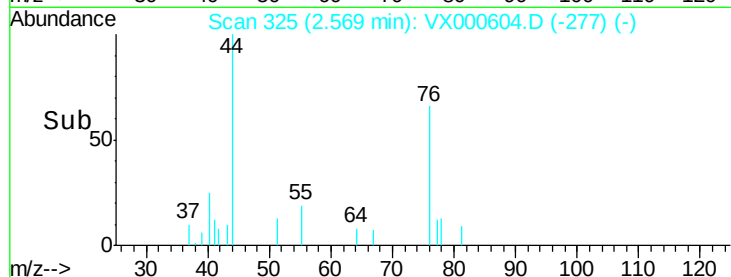
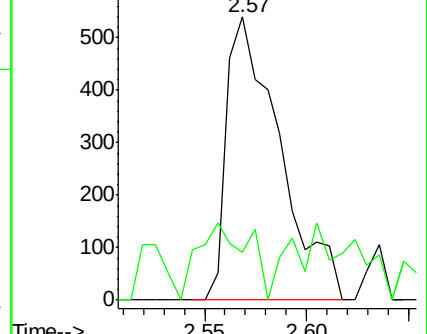
76 100

78 0.2 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 6.109 ug/l

RT: 3.21 min Scan# 431

Delta R.T. -0.00 min

Lab File: VX000604.D

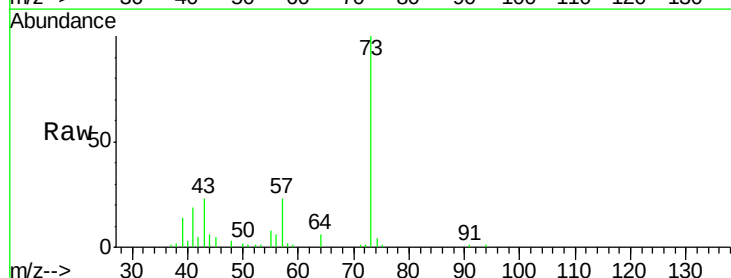
Acq: 31 Mar 2018 19:59

Tgt Ion: 73 Resp: 28262

Ion Ratio Lower Upper

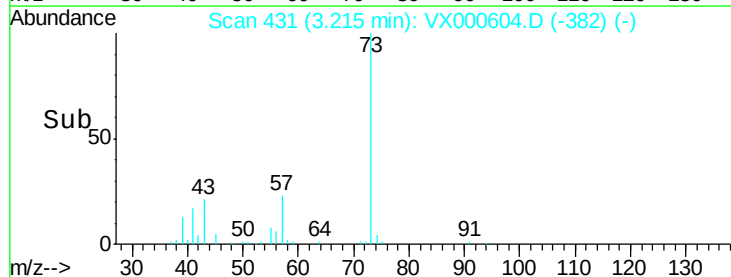
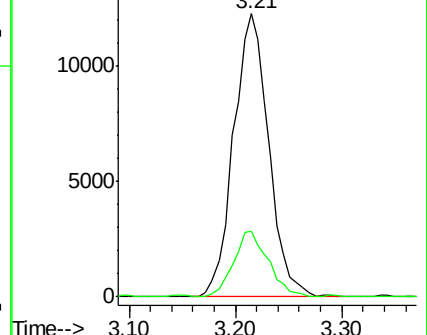
73 100

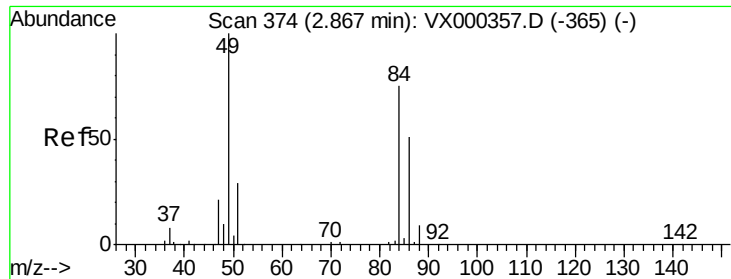
57 23.0 17.2 25.8



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

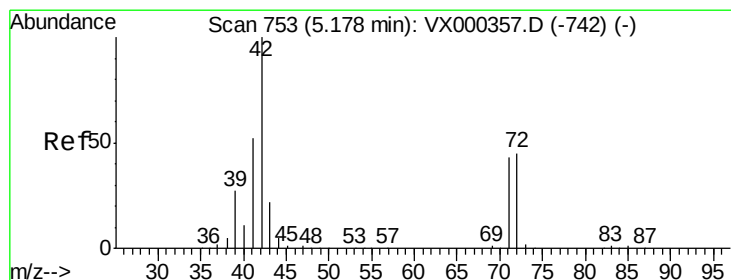
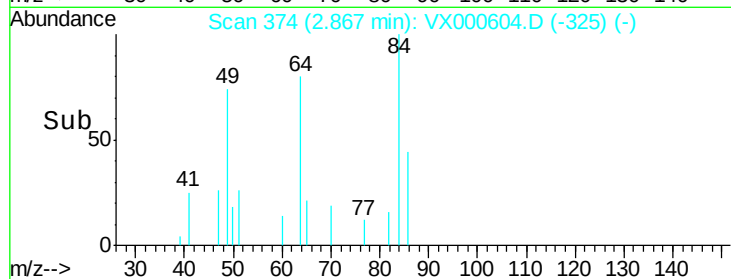
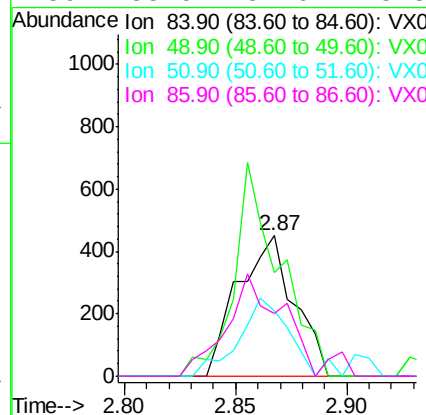
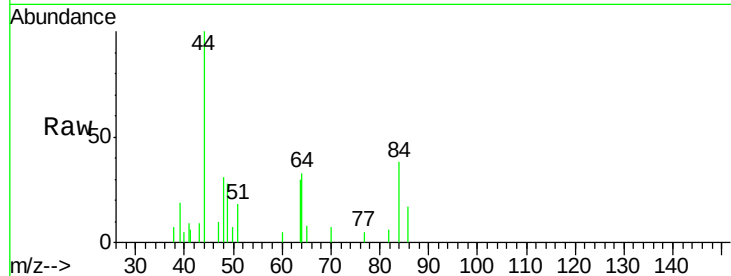




#20
Methylene Chloride
Concen: 0.545 ug/l
RT: 2.87 min Scan# 374
Delta R.T. -0.00 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

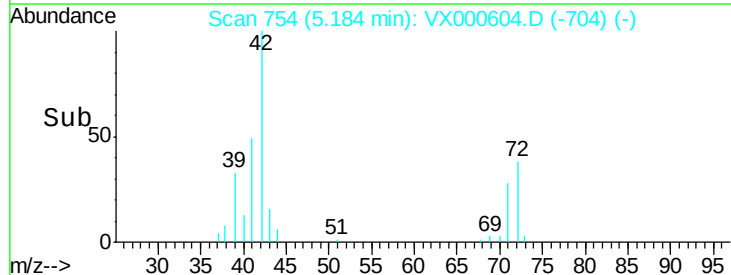
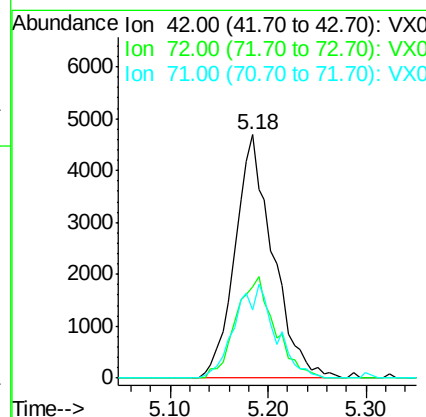
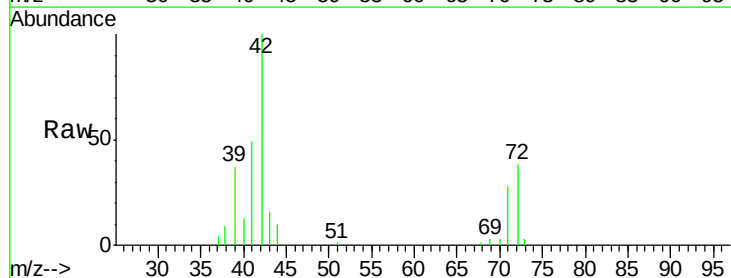
Instrument :
MSVOA_X
ClientSampled :

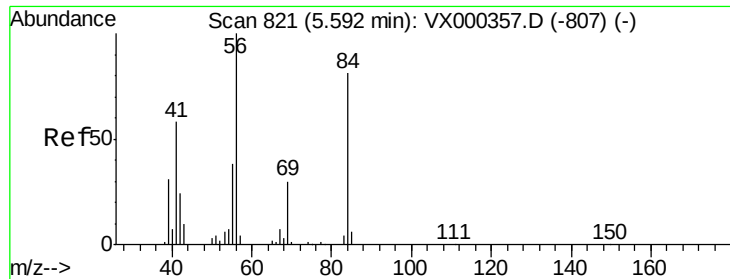
Tot Ion: 84 Resp: 789
Ion Ratio Lower Upper
84 100
49 73.6 100.6 151.0#
51 46.8 31.6 47.4
86 33.0 52.6 78.8#



#29
Tetrahydrofuran
Concen: 14.572 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.01 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

Tgt Ion: 42 Resp: 12629
Ion Ratio Lower Upper
42 100
72 42.8 37.9 56.9
71 20.3 34.4 51.6#

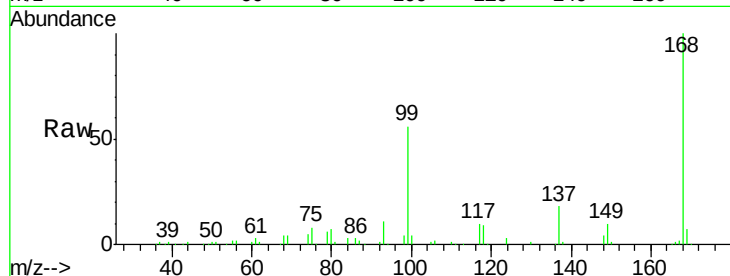




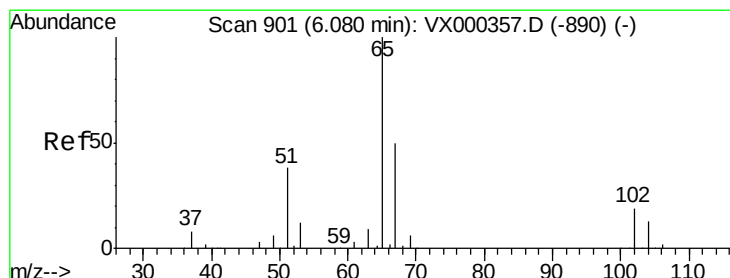
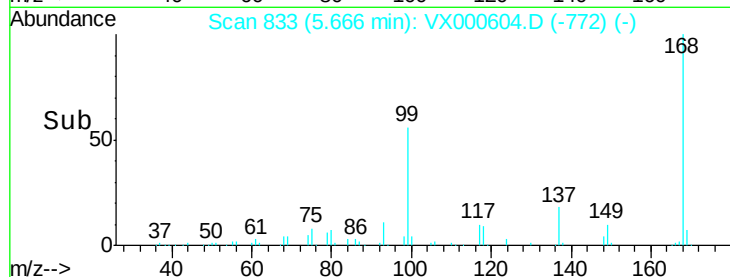
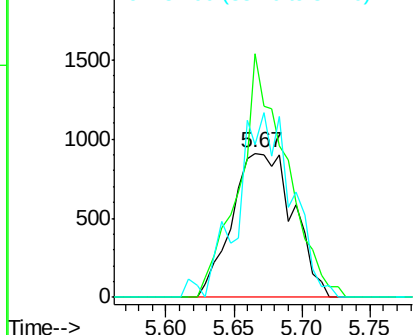
#31
Cyclohexane
Concen: 1.512 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.07 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 2873
Ion Ratio Lower Upper
56 100
69 168.6 23.4 35.0#
84 105.8 71.0 106.4

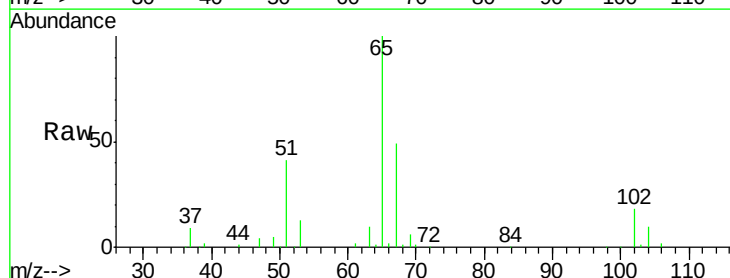


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

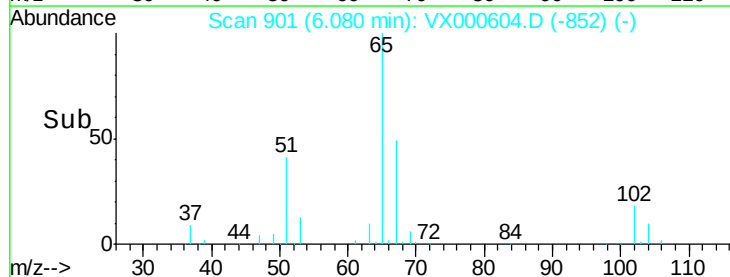
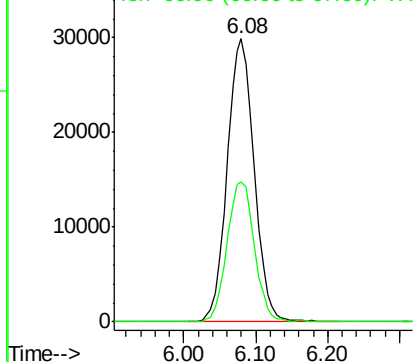


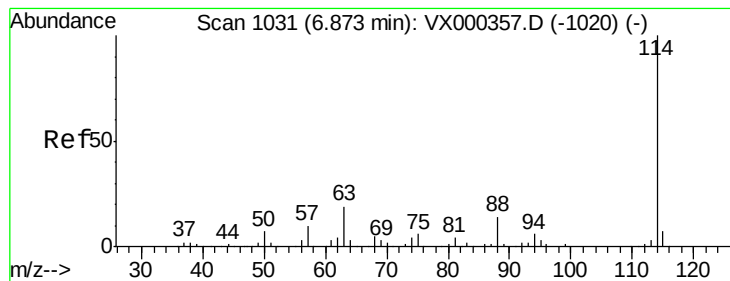
#33
1,2-Dichloroethane-d4
Concen: 51.652 ug/l
RT: 6.08 min Scan# 901
Delta R.T. 0.00 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

Tgt Ion: 65 Resp: 77810
Ion Ratio Lower Upper
65 100
67 50.0 0.0 103.2



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# 1031

Delta R.T. -0.00 min

Lab File: VX000604.D

Acq: 31 Mar 2018 19:59

Instrument :

MSVOA_X

ClientSampleId :

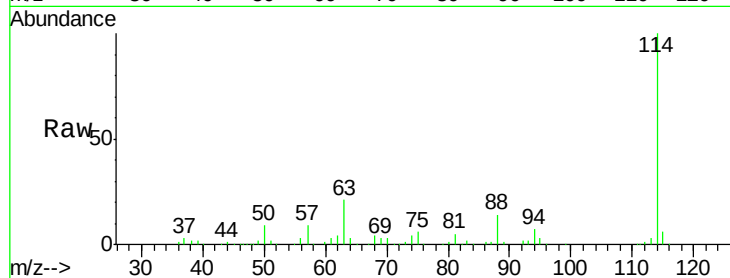
Tot Ion:114 Resp: 192740

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.4

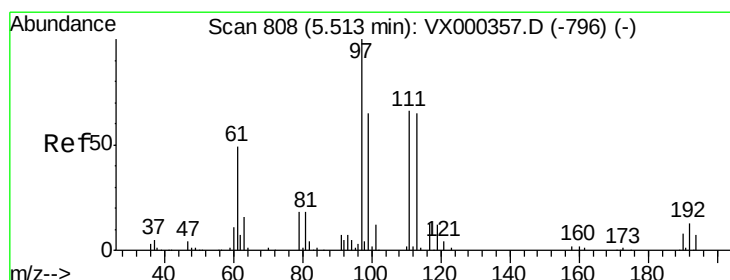
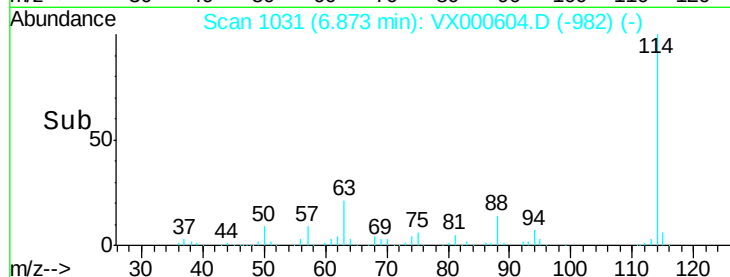
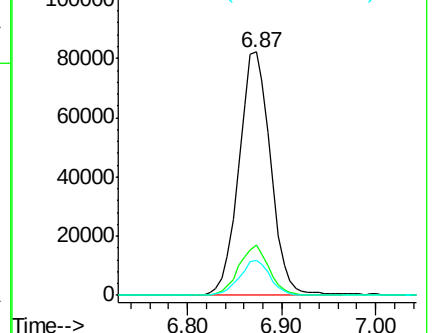
88 14.2 0.0 27.0



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: 50.144 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000604.D

Acq: 31 Mar 2018 19:59

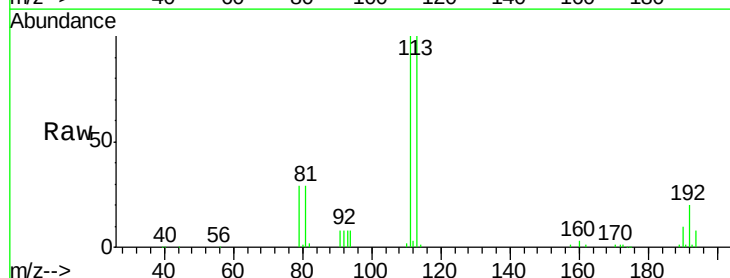
Tgt Ion:113 Resp: 60896

Ion Ratio Lower Upper

113 100

111 102.0 82.4 123.6

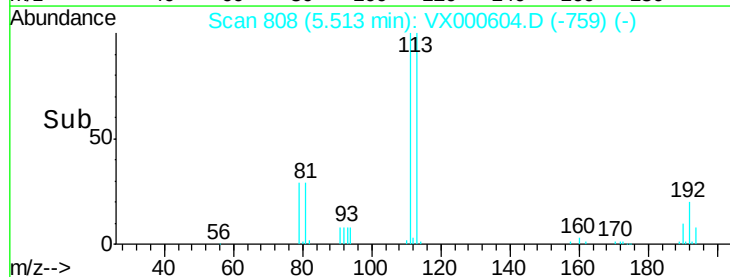
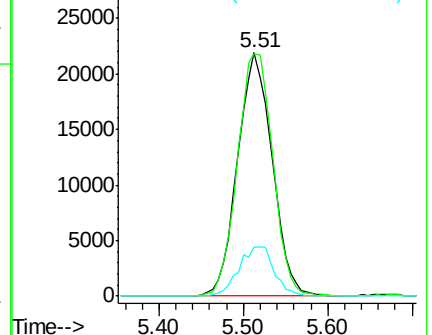
192 20.6 15.8 23.6

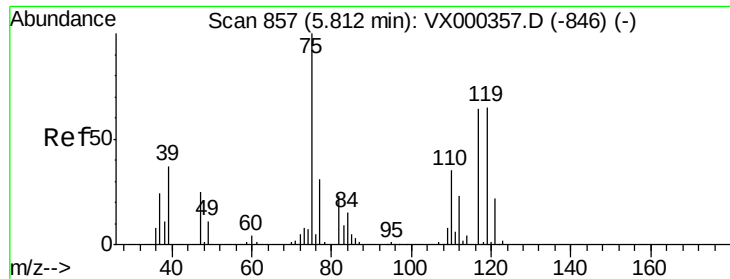


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

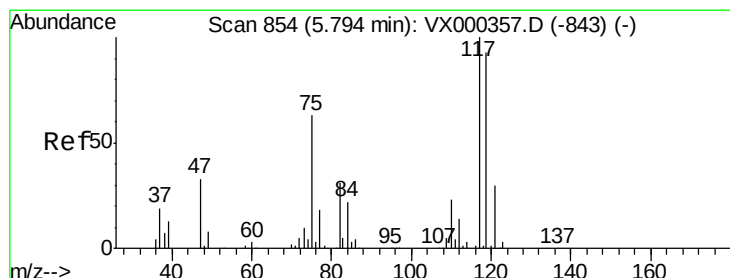
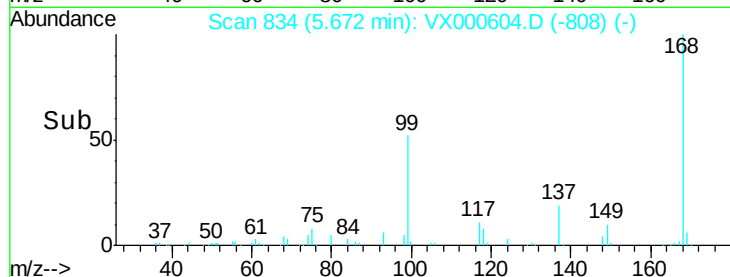
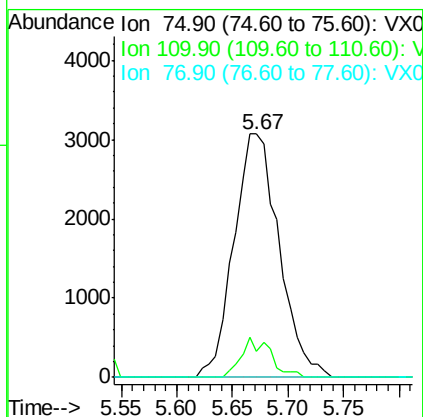
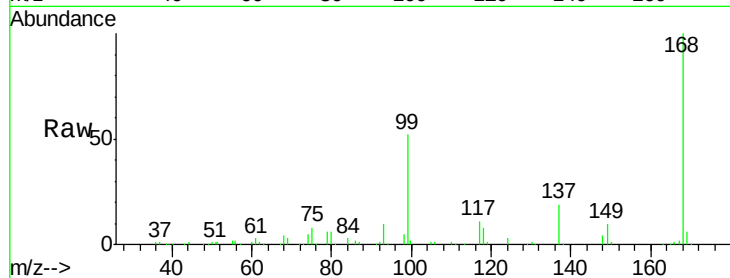




#36
 1,1-Dichloropropene
 Concen: 4.803 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.14 min
 Lab File: VX000604.D
 Acq: 31 Mar 2018 19:59

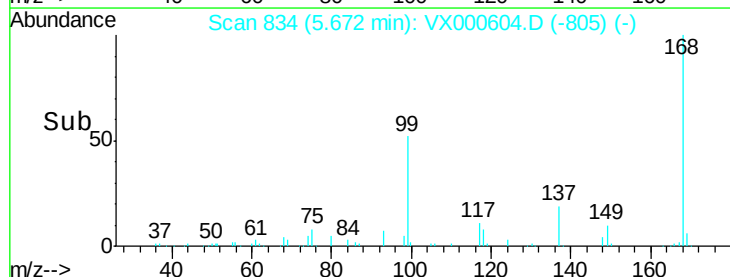
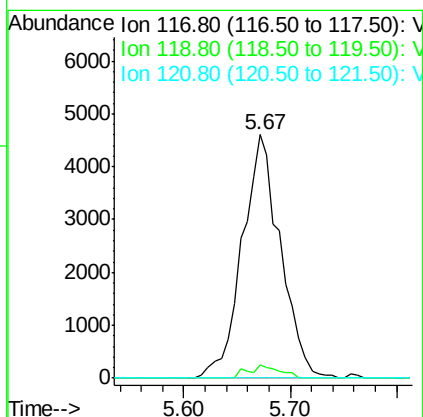
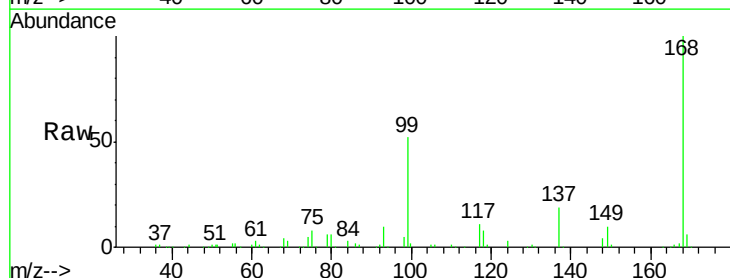
Instrument :
 MSVOA_X
 ClientSampleId :

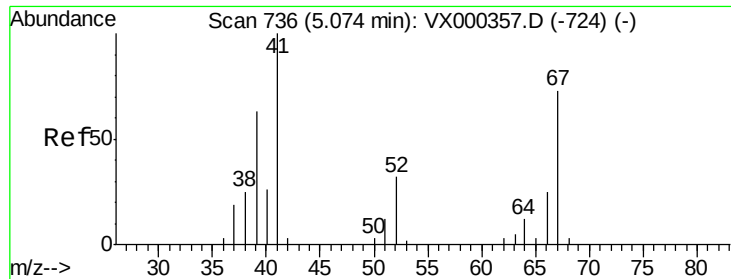
Tot Ion: 75 Resp: 8671
 Ion Ratio Lower Upper
 75 100
 110 10.7 17.9 53.7#
 77 0.0 24.0 36.0#



#38
 Carbon Tetrachloride
 Concen: 6.112 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000604.D
 Acq: 31 Mar 2018 19:59

Tgt Ion: 117 Resp: 11577
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.4 116.2#
 121 0.0 24.8 37.2#

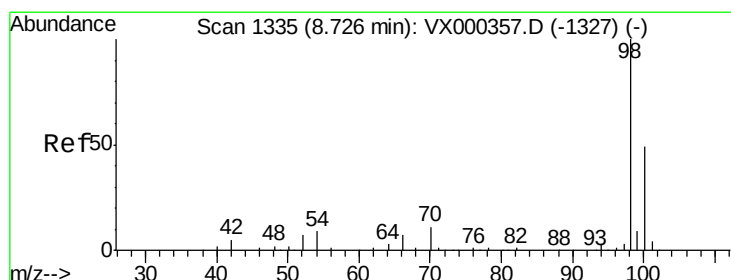
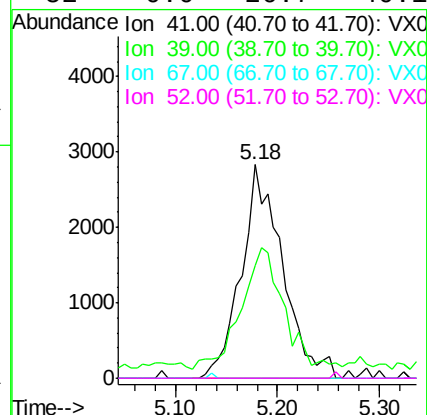
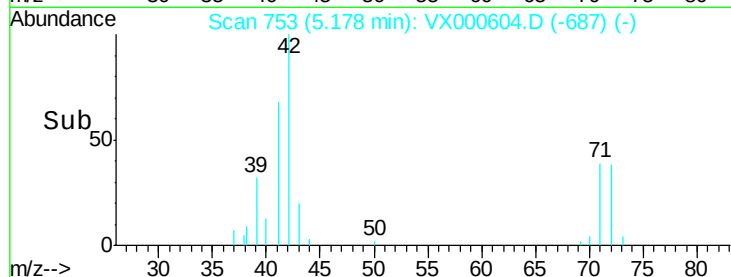
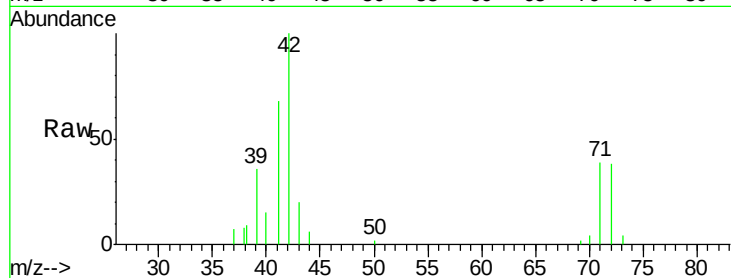




#41
Methacrylonitrile
Concen: 6.085 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.10 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

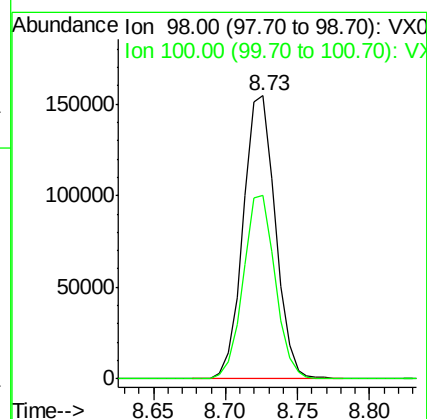
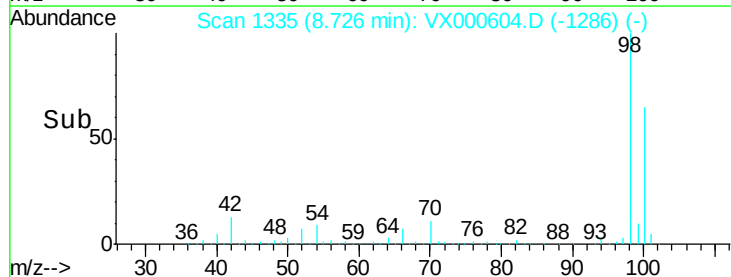
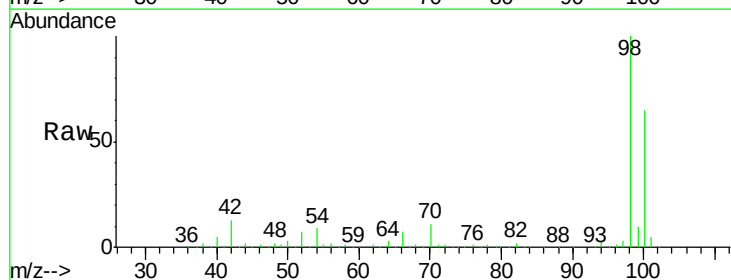
Instrument :
MSVOA_X
ClientSampleId :

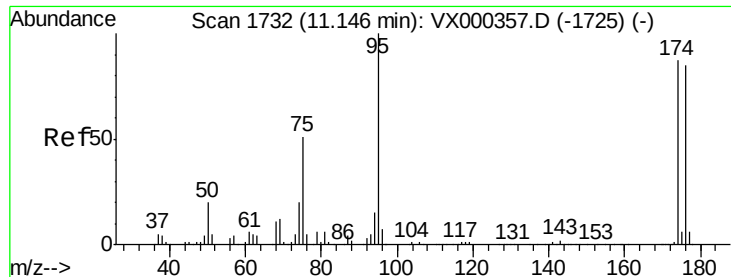
Tot Ion: 41 Resp: 7912
Ion Ratio Lower Upper
41 100
39 58.7 45.7 68.5
67 0.0 57.8 86.8#
52 0.0 26.7 40.1#



#50
Toluene-d8
Concen: 47.525 ug/l
RT: 8.73 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

Tgt Ion: 98 Resp: 239035
Ion Ratio Lower Upper
98 100
100 64.7 51.2 76.8





#62

4-Bromofluorobenzene

Concen: 41.687 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000604.D

Acq: 31 Mar 2018 19:59

Instrument :

MSVOA_X

ClientSampleId :

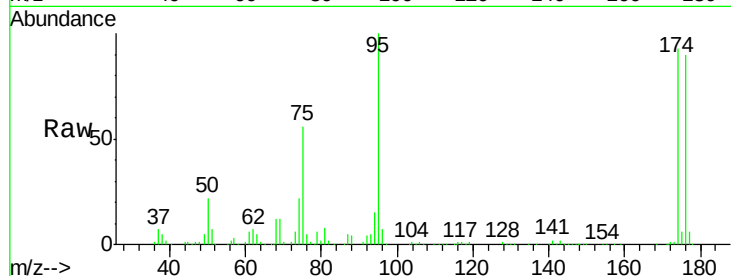
Tot Ion: 95 Resp: 86113

Ion Ratio Lower Upper

95 100

174 91.3 0.0 173.6

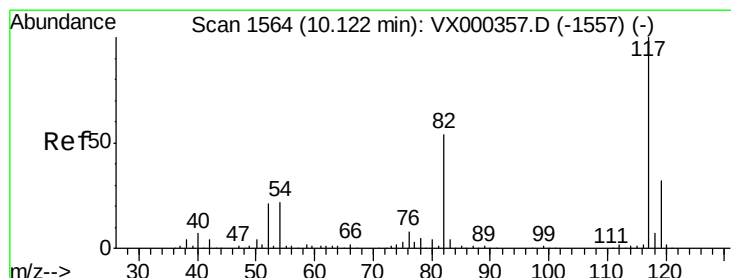
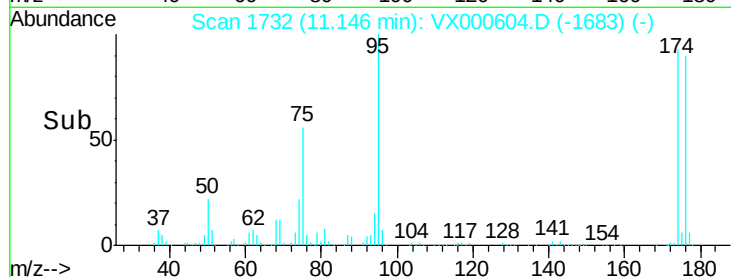
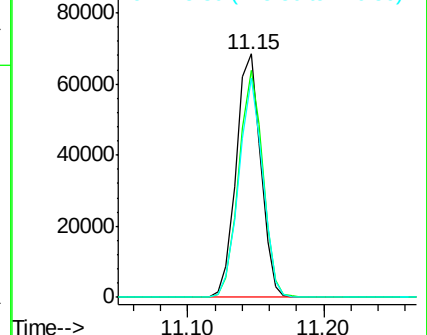
176 87.2 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX000604.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000604.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000604.D (-1683) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000604.D

Acq: 31 Mar 2018 19:59

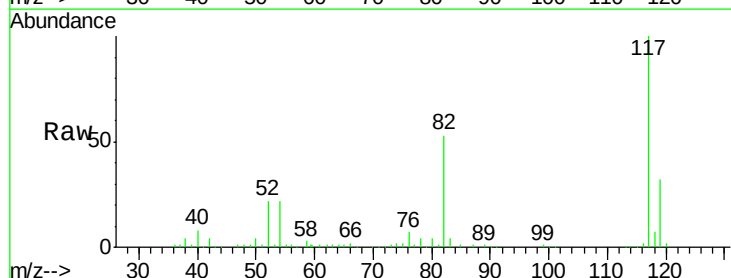
Tgt Ion: 117 Resp: 189613

Ion Ratio Lower Upper

117 100

82 53.5 43.8 65.8

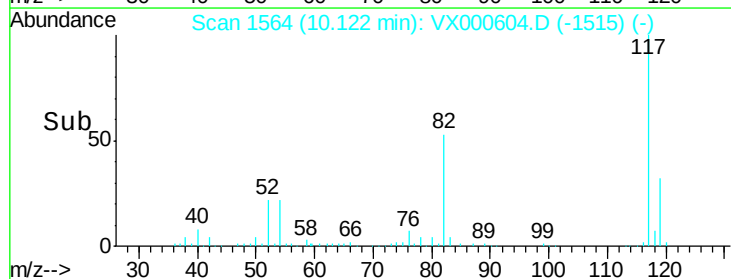
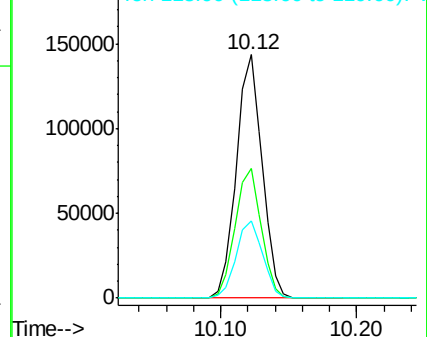
119 32.0 24.9 37.3

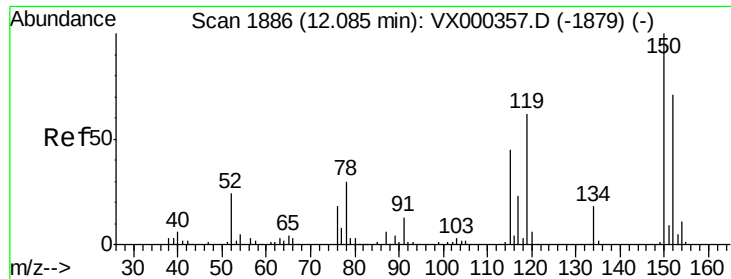


Abundance Ion 116.90 (116.60 to 117.60): VX000604.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000604.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000604.D (-1515) (-)



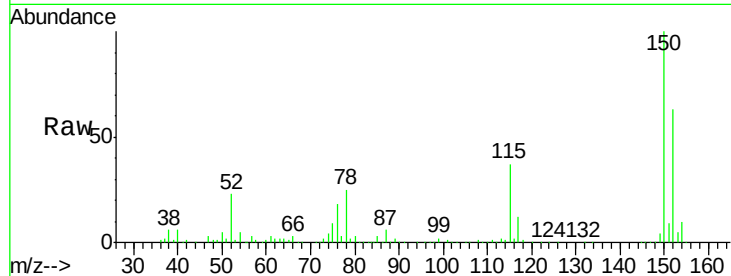


#72

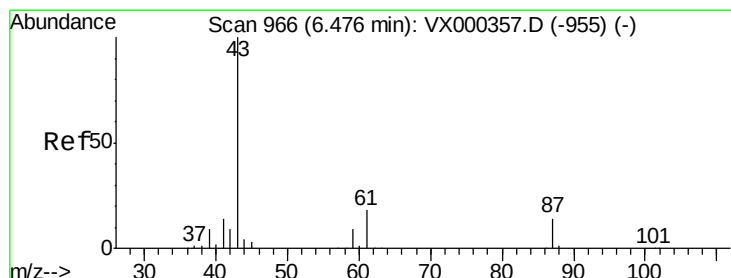
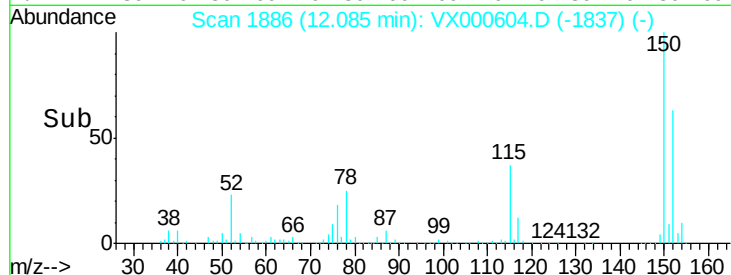
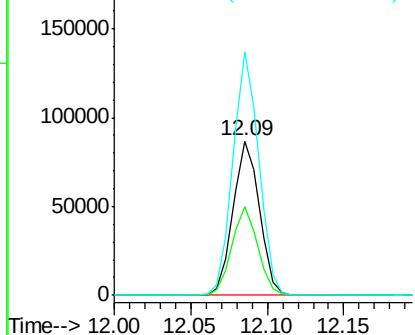
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 103226
Ion Ratio Lower Upper
152 100
115 56.5 39.8 119.3
150 155.6 0.0 344.4



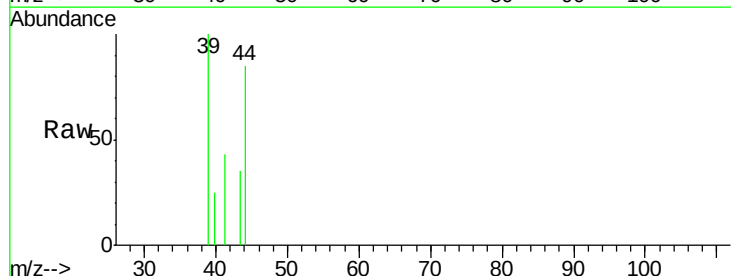
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



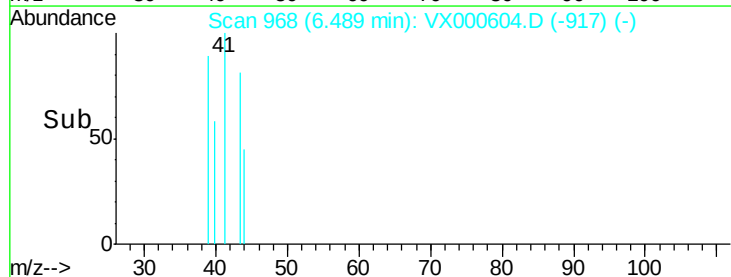
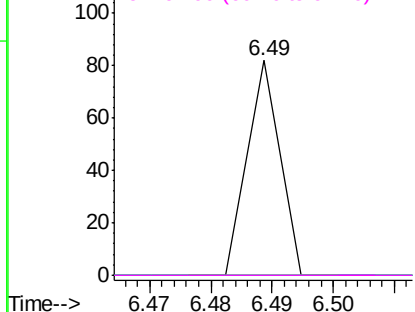
#74

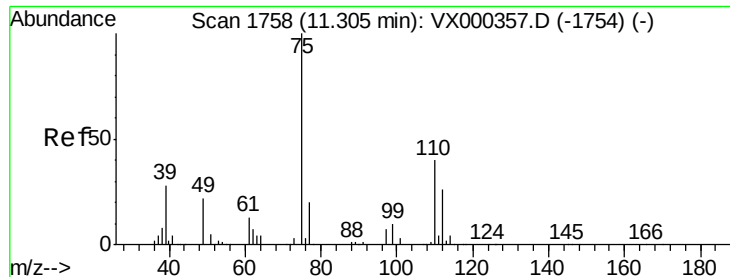
N-amil acetate
Concen: Below Cal
RT: 6.49 min Scan# 968
Delta R.T. 0.01 min
Lab File: VX000604.D
Acq: 31 Mar 2018 19:59

Tgt Ion: 43 Resp: 30
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: 21.926 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000604.D

Acq: 31 Mar 2018 19:59

Instrument :

MSVOA_X

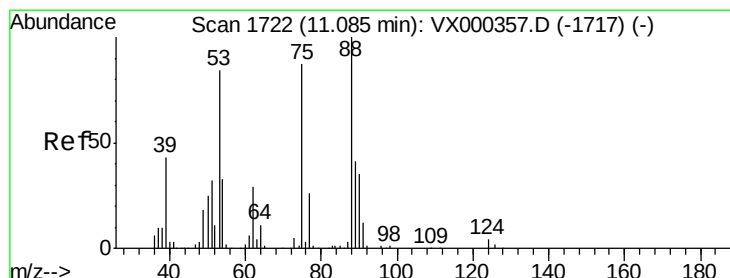
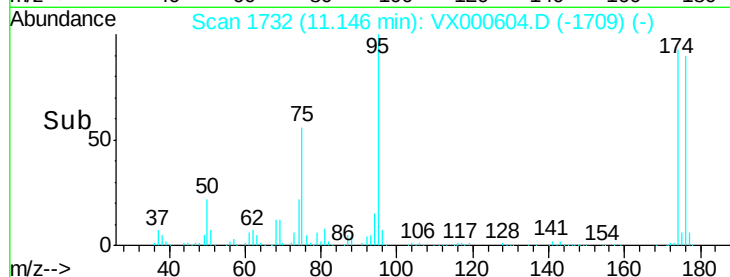
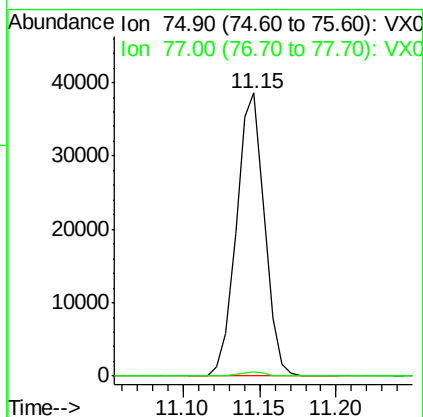
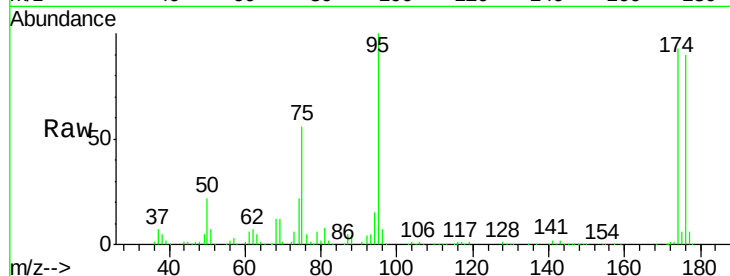
ClientSampleId :

Tot Ion: 75 Resp: 48641

Ion Ratio Lower Upper

75 100

77 1.6 21.4 64.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.986 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000604.D

Acq: 31 Mar 2018 19:59

Tgt Ion: 75 Resp: 48641

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

89 0.2 39.4 59.0#

