

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX033118\
 Data File : VX000616.D
 Acq On : 01 Apr 2018 01:56
 Operator : JC/MD
 Sample : J2150-02DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 05:26:09 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	109170	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	182621	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	177871	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	95430	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	71687	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
35) Dibromofluoromethane	5.51	113	56382	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
50) Toluene-d8	8.72	98	227997	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
62) 4-Bromofluorobenzene	11.15	95	78303	40.26	ug/l	0.00
Spiked Amount			Recovery	=	80.52%	

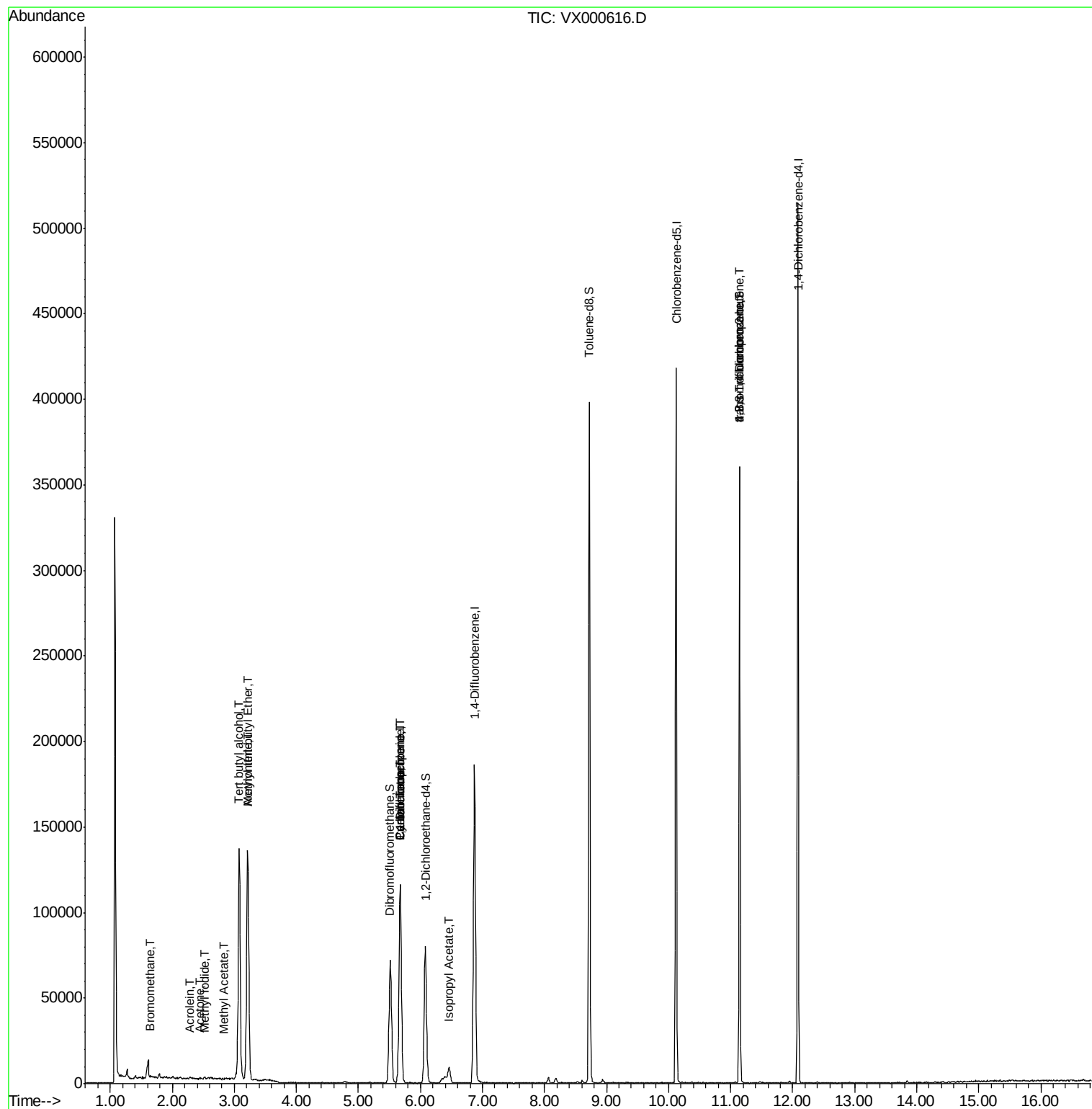
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	612	0.428	ug/l #	44
6) Chloroethane	1.73	64	302	Below Cal	#	44
10) Methyl Iodide	2.52	142	221	4.427	ug/l #	65
11) Tert butyl alcohol	3.07	59	167902	342.528	ug/l	100
13) Acrolein	2.29	56	64	14.963	ug/l #	13
15) Acrylonitrile	3.21	53	2210	2.226	ug/l #	26
16) Acetone	2.45	43	1202	1.014	ug/l	90
18) Methyl Acetate	2.82	43	572	0.230	ug/l #	51
19) Methyl tert-butyl Ether	3.21	73	152857	34.928	ug/l	100
31) Cyclohexane	5.67	56	2722	1.514	ug/l #	55
36) 1,1-Dichloropropene	5.68	75	8959	5.237	ug/l #	51
38) Carbon Tetrachloride	5.67	117	10506	5.854	ug/l #	15
43) Isopropyl Acetate	6.46	43	3256	0.936	ug/l #	43
74) N-amyl acetate	6.46	43	3256	Below Cal	#	59
76) 1,2,3-Trichloropropane	11.15	75	45527	22.199	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	45527	71.869	ug/l #	9

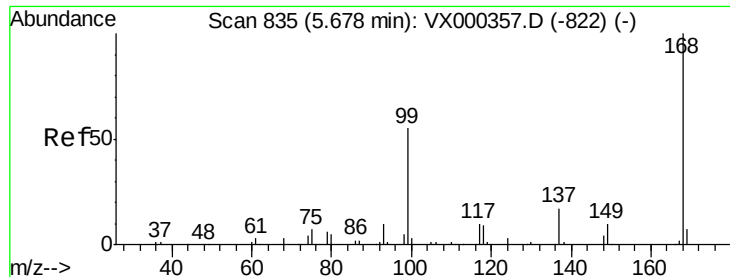
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

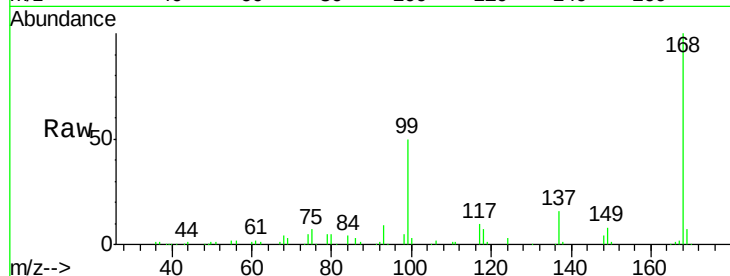
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 109170

Ion Ratio Lower Upper

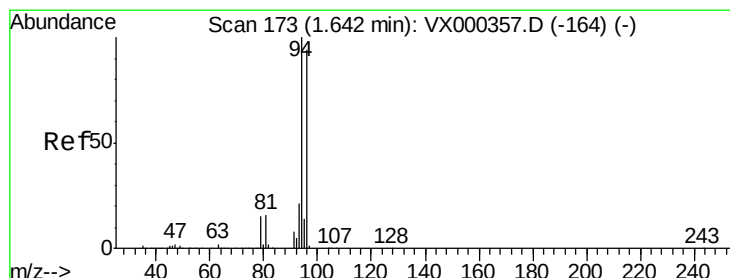
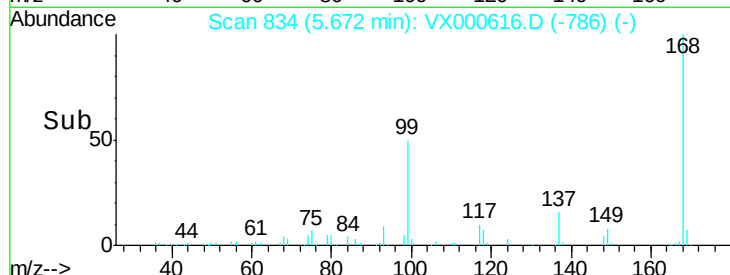
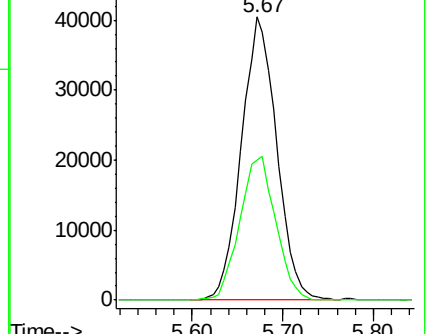
168 100

99 49.6 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.428 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000616.D

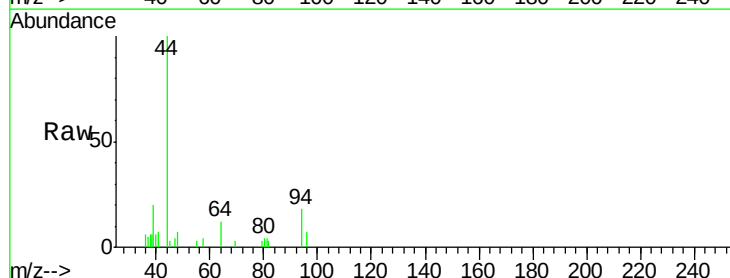
Acq: 01 Apr 2018 01:56

Tgt Ion: 94 Resp: 612

Ion Ratio Lower Upper

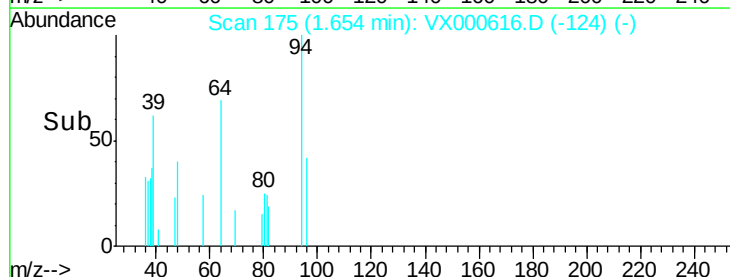
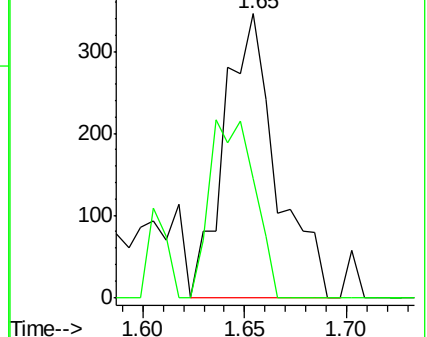
94 100

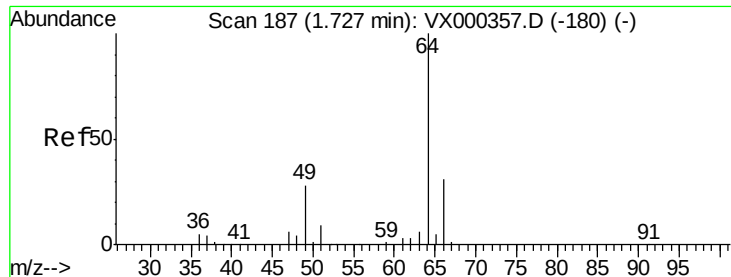
96 41.9 77.7 116.5#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Instrument :

MSVOA_X

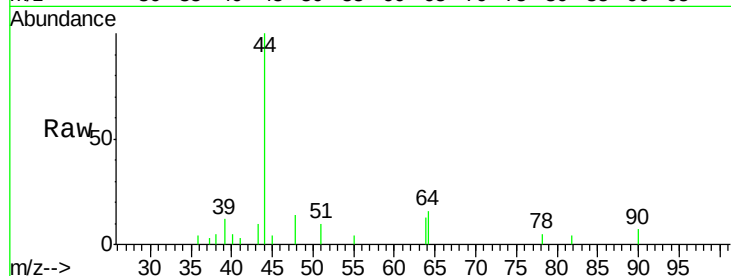
ClientSampled :

Tot Ion: 64 Resp: 302

Ion Ratio Lower Upper

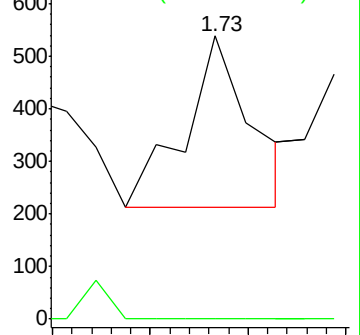
64 100

66 0.0 24.8 37.2#

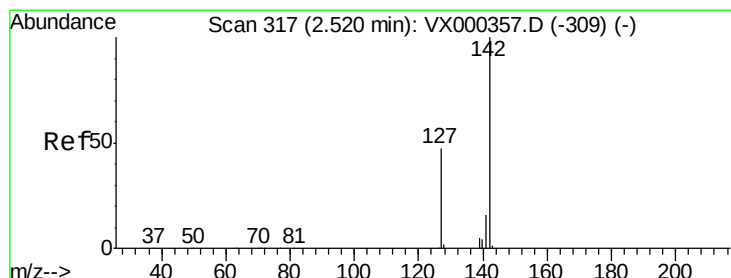
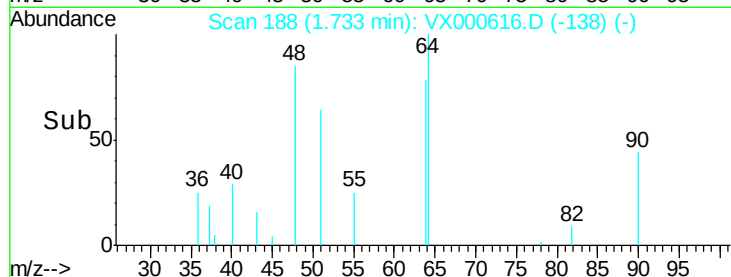


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time--> 1.70 1.72 1.74



#10

Methyl Iodide

Concen: 4.427 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.00 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

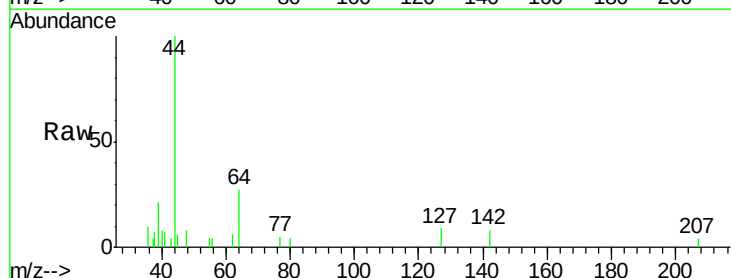
Tgt Ion: 142 Resp: 221

Ion Ratio Lower Upper

142 100

127 72.4 39.2 58.8#

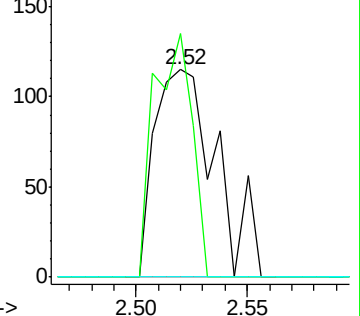
141 0.0 11.7 17.5#



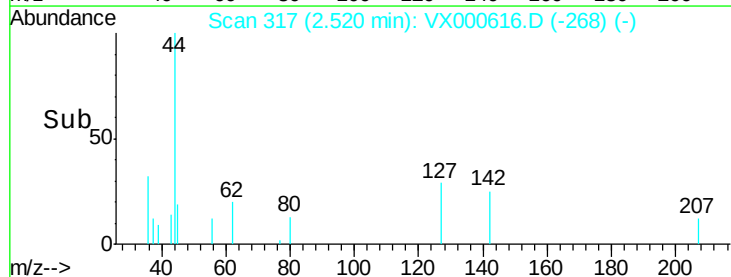
Abundance Ion 141.80 (141.50 to 142.50): V

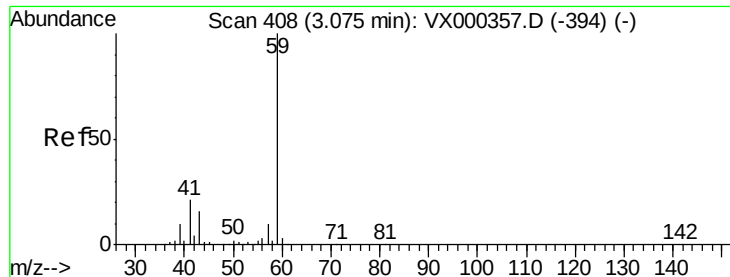
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time--> 2.50 2.55

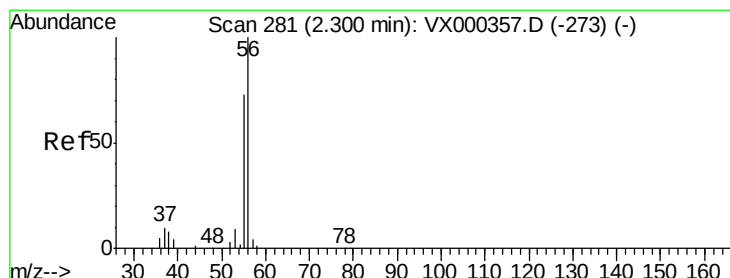
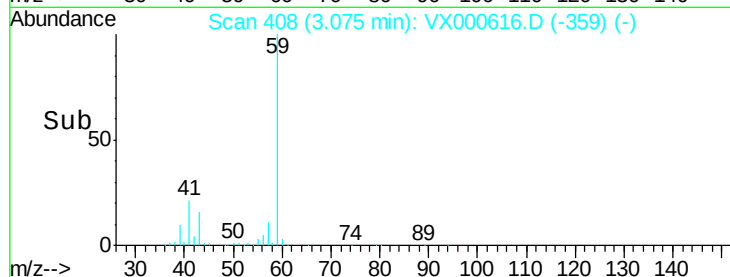
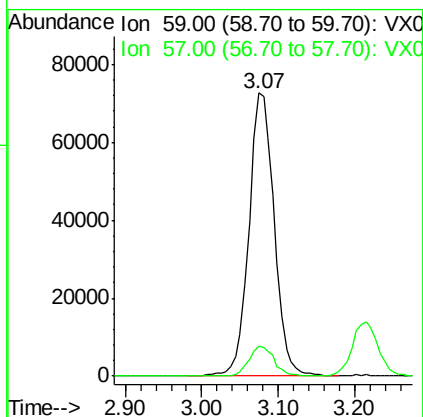
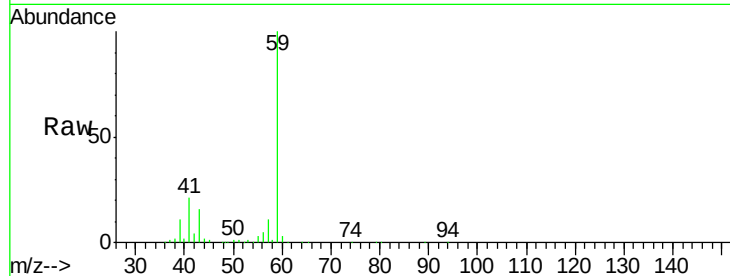




#11
Tert butyl alcohol
Concen: 342.528 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.00 min
Lab File: VX000616.D
Acq: 01 Apr 2018 01:56

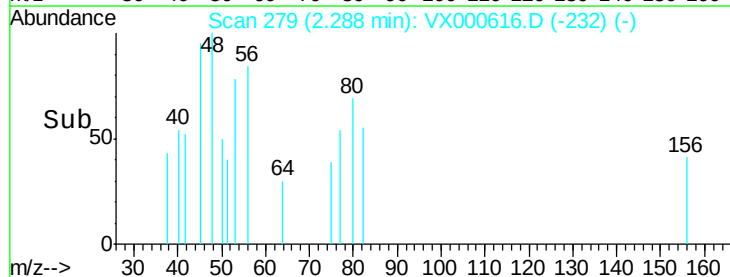
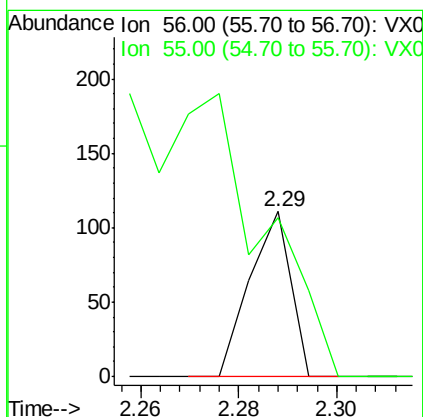
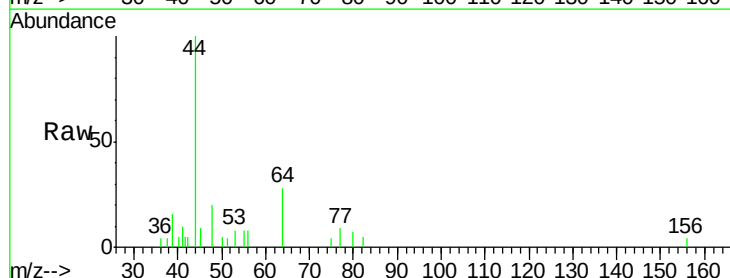
Instrument :
MSVOA_X
ClientSampleId :

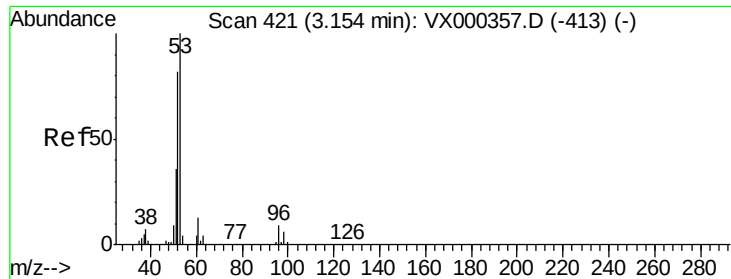
Tot Ion: 59 Resp: 167902
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6



#13
Acrolein
Concen: 14.963 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX000616.D
Acq: 01 Apr 2018 01:56

Tgt Ion: 56 Resp: 64
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#





#15

Acrylonitrile

Concen: 2.226 ug/l

RT: 3.21 min Scan# 431

Delta R.T. 0.06 min

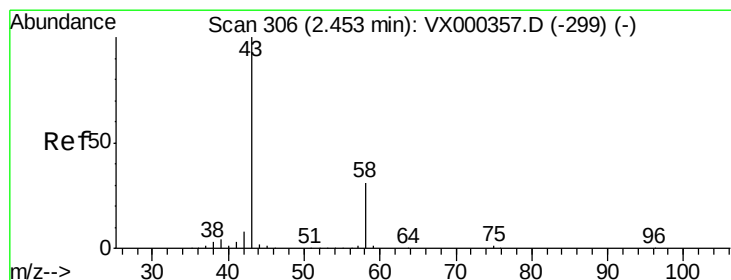
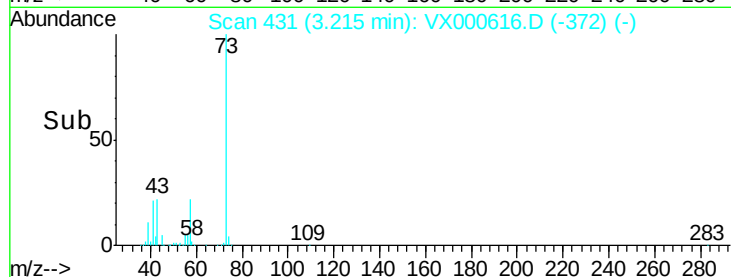
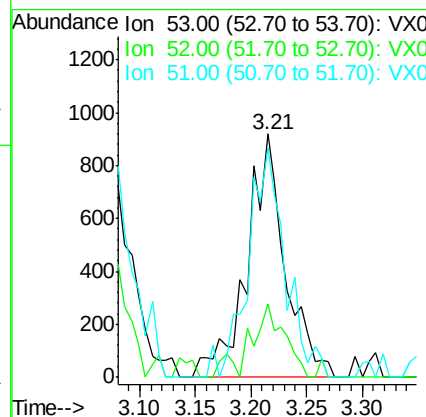
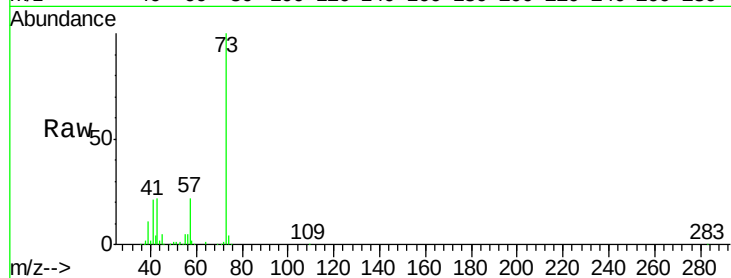
Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 53 Resp: 2210

Ion	Ratio	Lower	Upper
53	100		
52	23.6	66.6	99.8#
51	91.6	29.3	43.9#



#16

Acetone

Concen: 1.014 ug/l

RT: 2.45 min Scan# 306

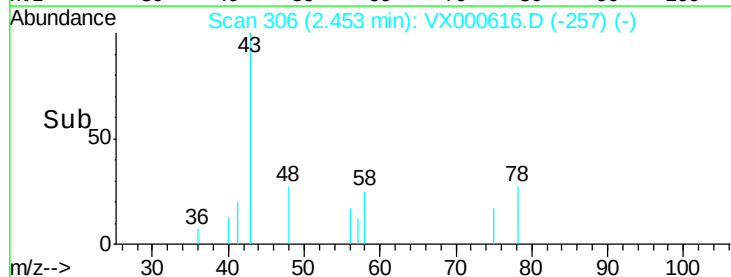
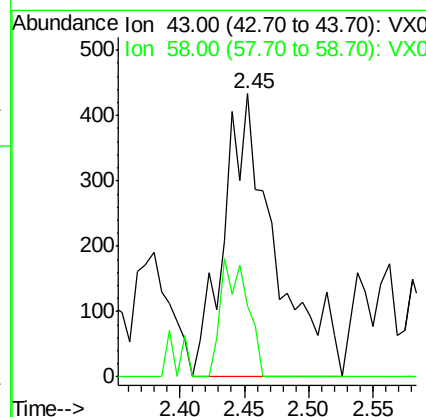
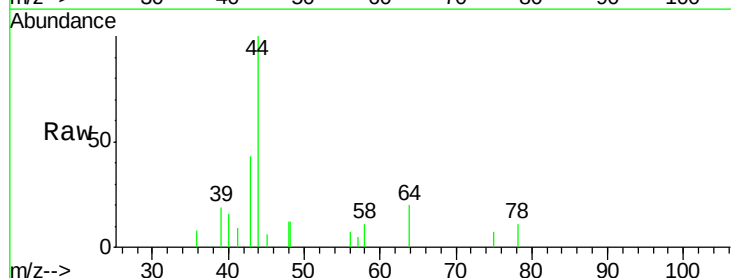
Delta R.T. -0.00 min

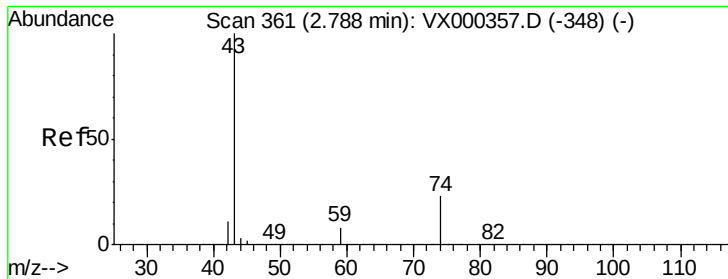
Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Tgt Ion: 43 Resp: 1202

Ion	Ratio	Lower	Upper
43	100		
58	25.2	24.7	37.1





#18

Methyl Acetate

Concen: 0.230 ug/l

RT: 2.82 min Scan# 367

Delta R.T. 0.04 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Instrument :

MSVOA_X

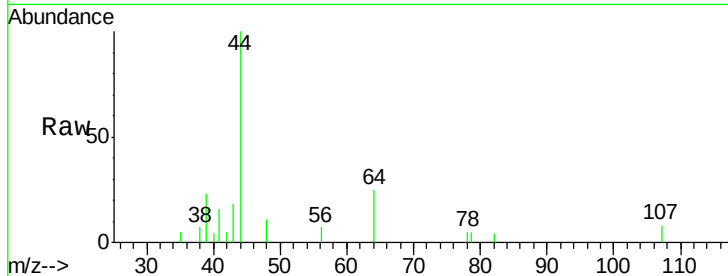
ClientSampled :

Tot Ion: 43 Resp: 572

Ion Ratio Lower Upper

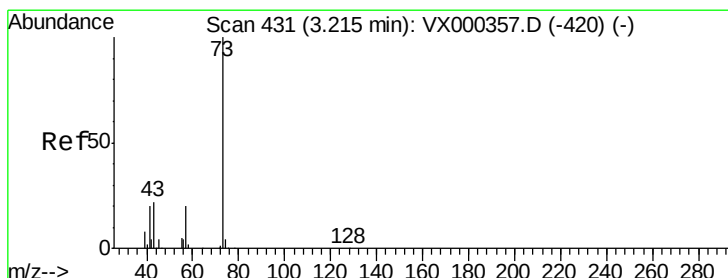
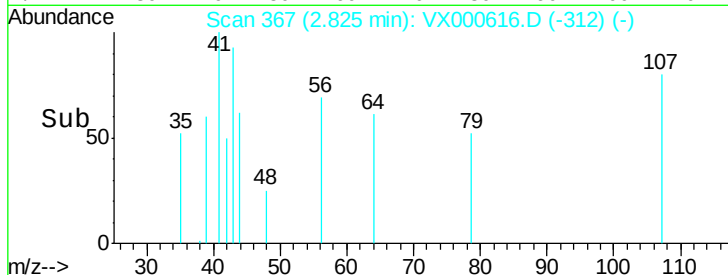
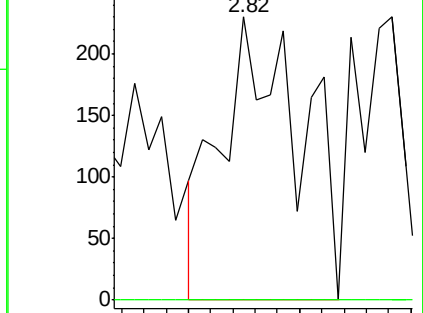
43 100

74 0.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#19

Methyl tert-butyl Ether

Concen: 34.928 ug/l

RT: 3.21 min Scan# 431

Delta R.T. -0.00 min

Lab File: VX000616.D

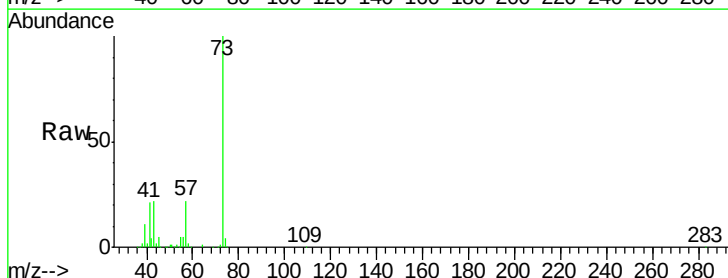
Acq: 01 Apr 2018 01:56

Tgt Ion: 73 Resp: 152857

Ion Ratio Lower Upper

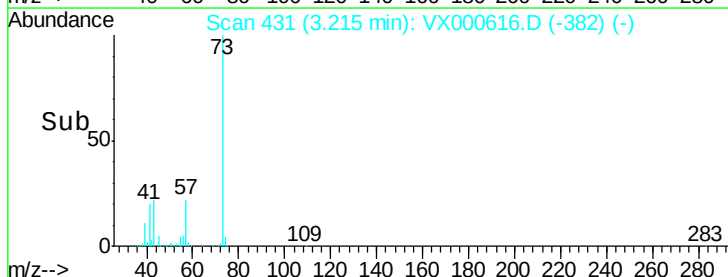
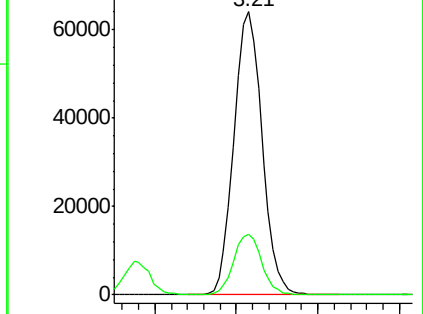
73 100

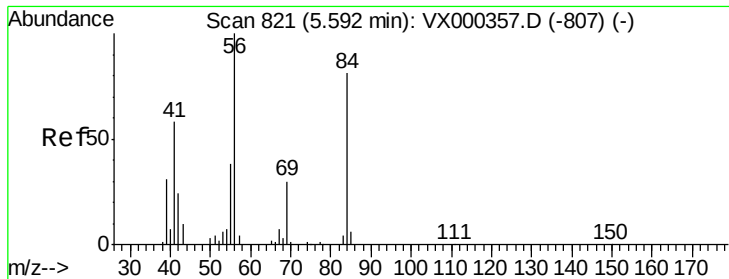
57 21.6 17.2 25.8



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

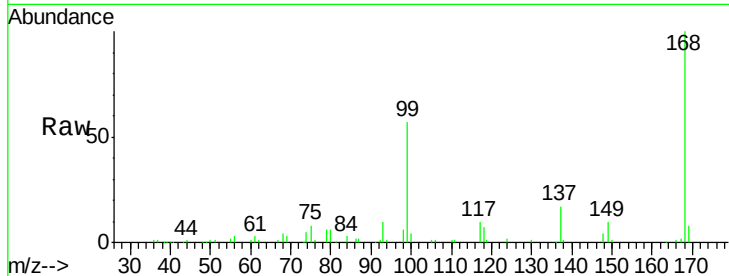




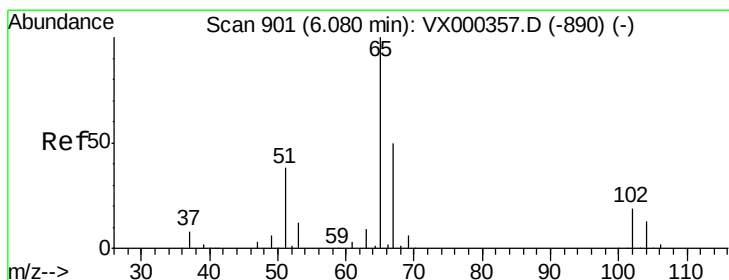
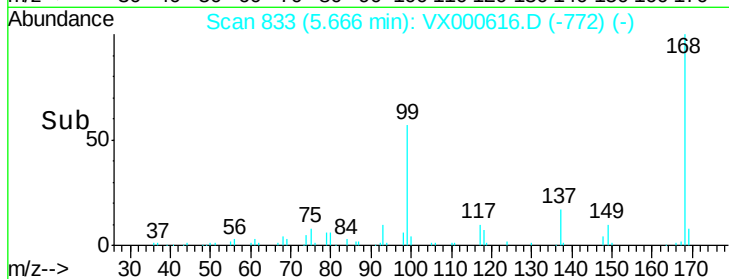
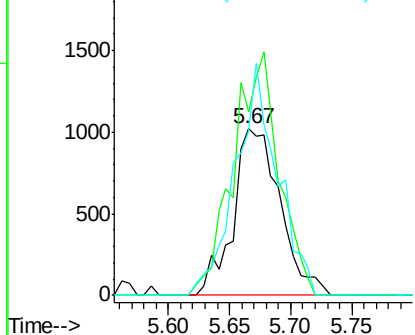
#31
Cyclohexane
Concen: 1.514 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.07 min
Lab File: VX000616.D
Acq: 01 Apr 2018 01:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 2722
Ion Ratio Lower Upper
56 100
69 109.9 23.4 35.0#
84 98.7 71.0 106.4

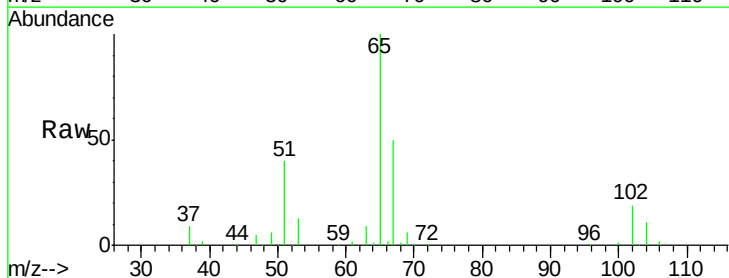


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

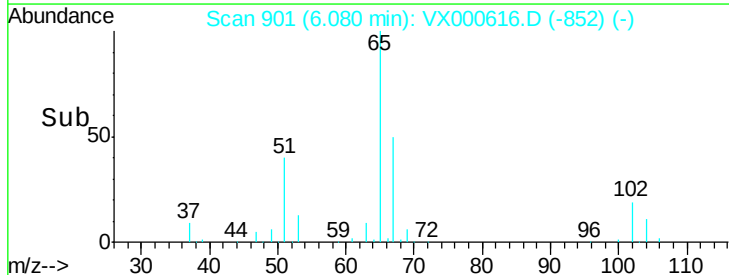
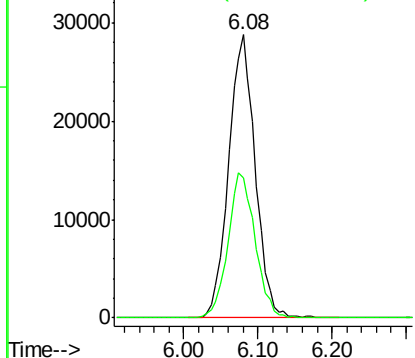


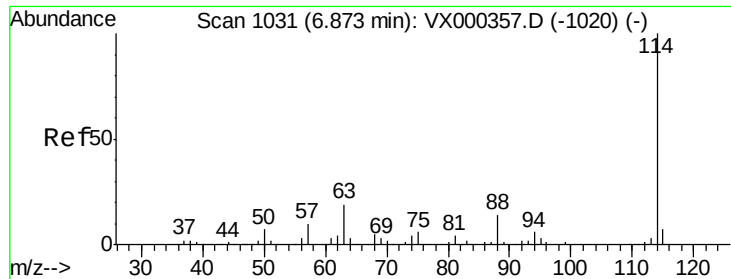
#33
1,2-Dichloroethane-d4
Concen: 50.305 ug/l
RT: 6.08 min Scan# 901
Delta R.T. 0.00 min
Lab File: VX000616.D
Acq: 01 Apr 2018 01:56

Tgt Ion: 65 Resp: 71687
Ion Ratio Lower Upper
65 100
67 52.2 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: VX000616.D

Acq: 01 Apr 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

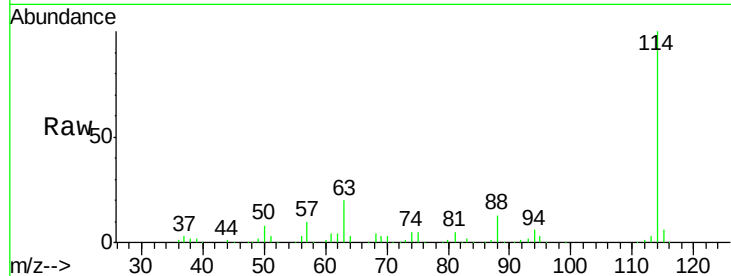
Tot Ion:114 Resp: 182621

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.4

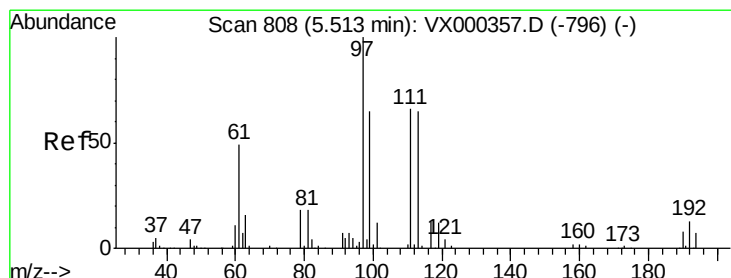
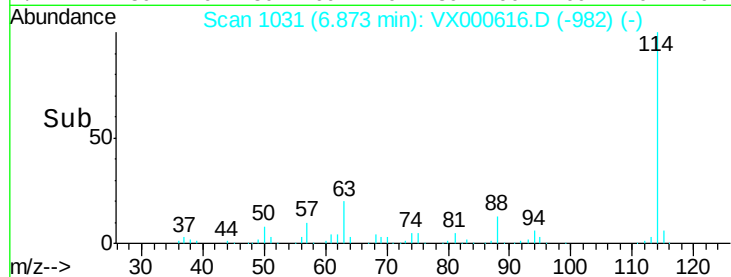
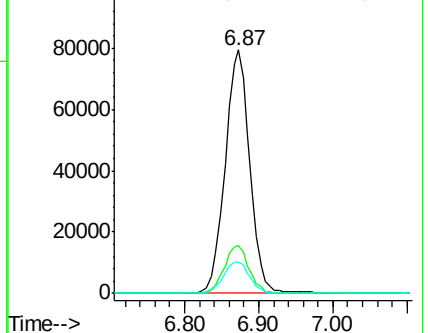
88 12.8 0.0 27.0



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: 48.999 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

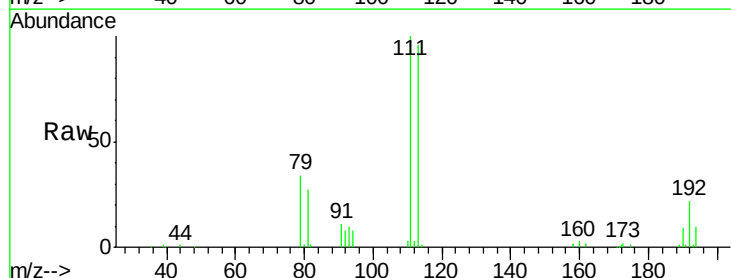
Tgt Ion:113 Resp: 56382

Ion Ratio Lower Upper

113 100

111 101.0 82.4 123.6

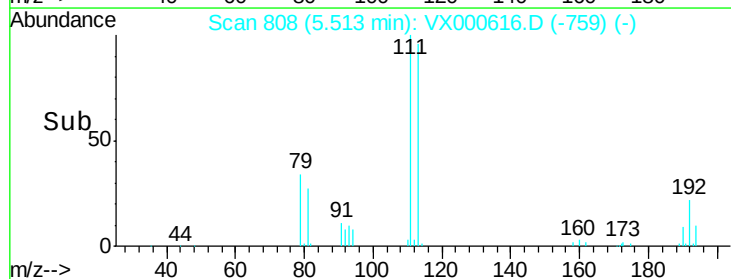
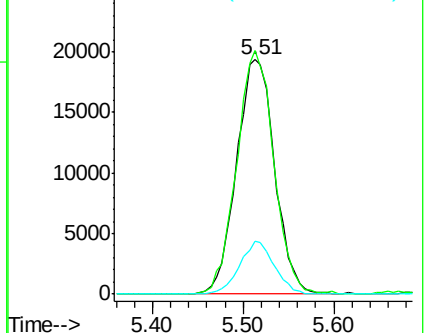
192 20.5 15.8 23.6

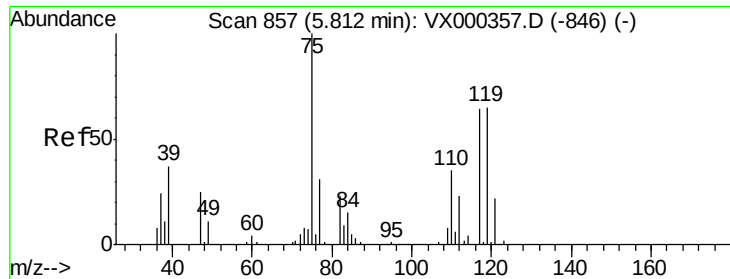


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

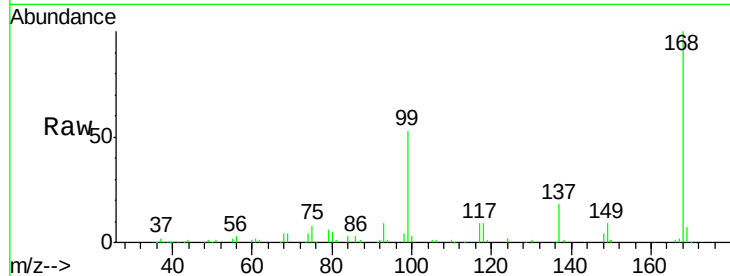




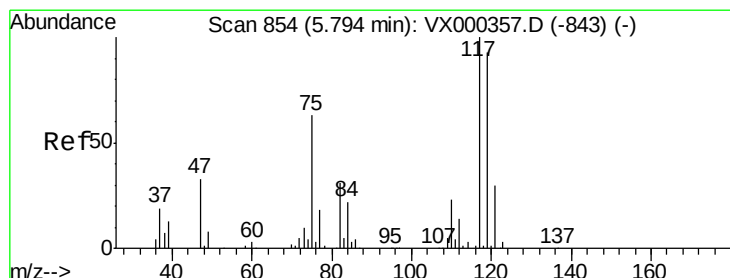
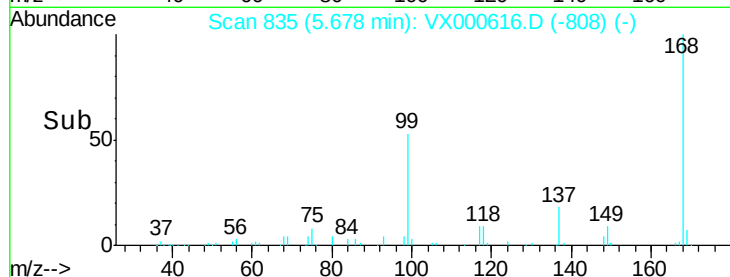
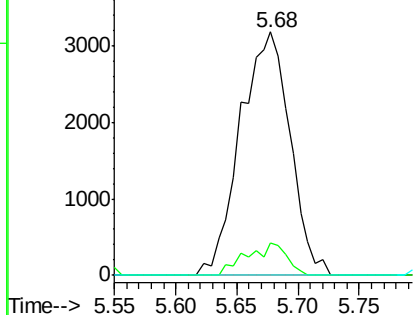
#36
 1,1-Dichloropropene
 Concen: 5.237 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.13 min
 Lab File: VX000616.D
 Acq: 01 Apr 2018 01:56

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 8959
 Ion Ratio Lower Upper
 75 100
 110 10.6 17.9 53.7#
 77 0.0 24.0 36.0#

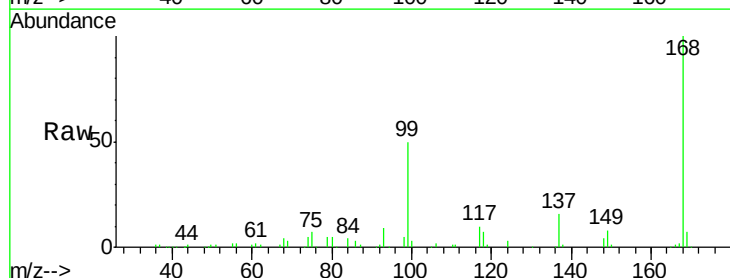


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

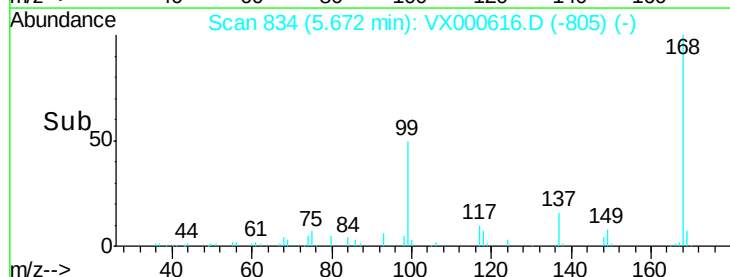
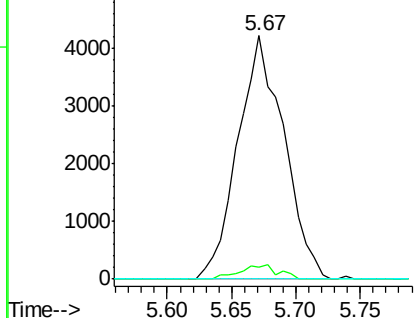


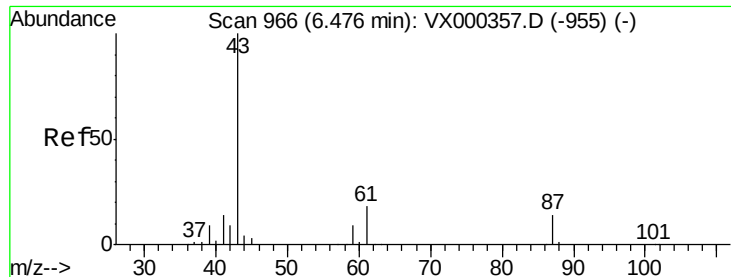
#38
 Carbon Tetrachloride
 Concen: 5.854 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000616.D
 Acq: 01 Apr 2018 01:56

Tgt Ion: 117 Resp: 10506
 Ion Ratio Lower Upper
 117 100
 119 4.9 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





#43

Isopropyl Acetate

Concen: 0.936 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

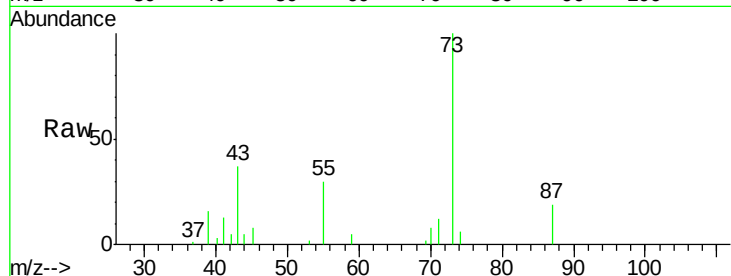
Tot Ion: 43 Resp: 3256

Ion Ratio Lower Upper

43 100

61 0.0 14.4 21.6#

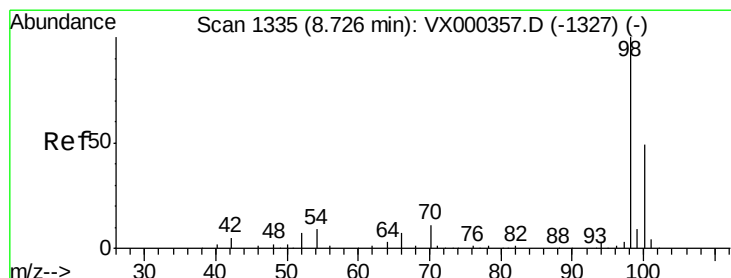
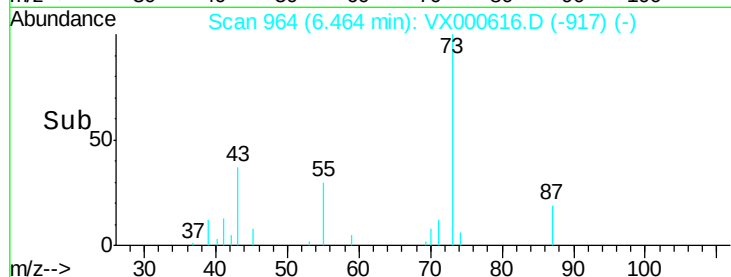
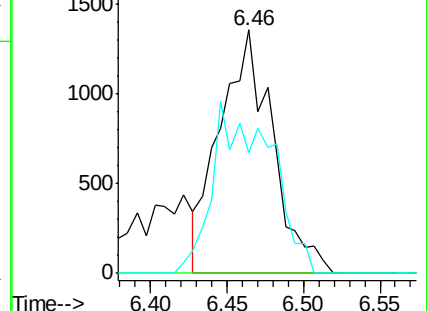
87 45.1 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 47.842 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VX000616.D

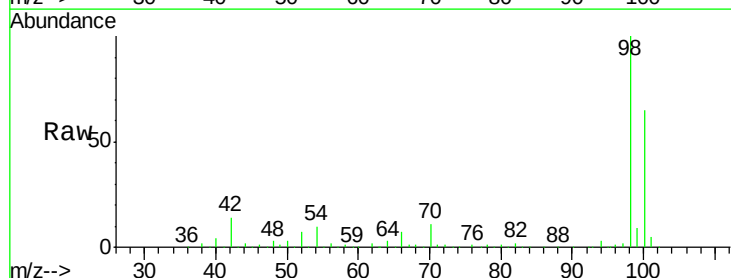
Acq: 01 Apr 2018 01:56

Tgt Ion: 98 Resp: 227997

Ion Ratio Lower Upper

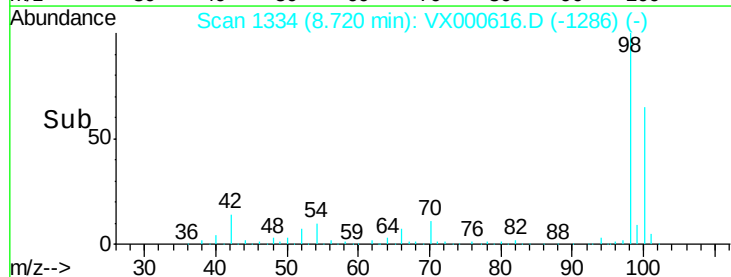
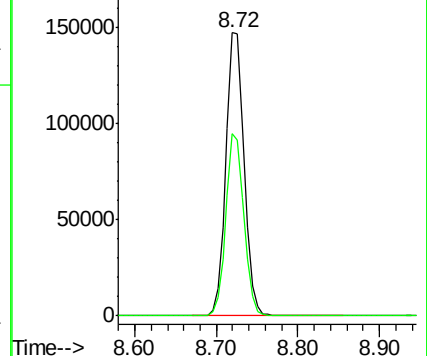
98 100

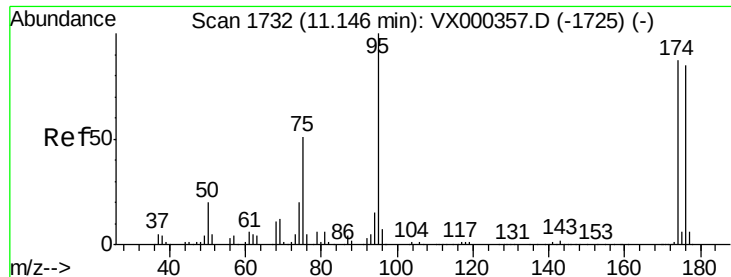
100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 40.257 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

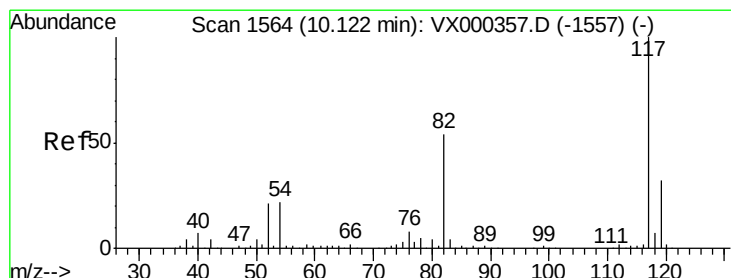
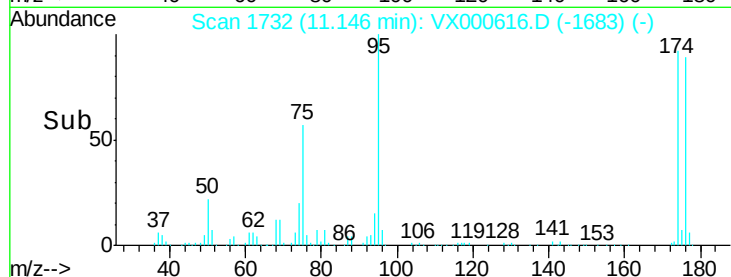
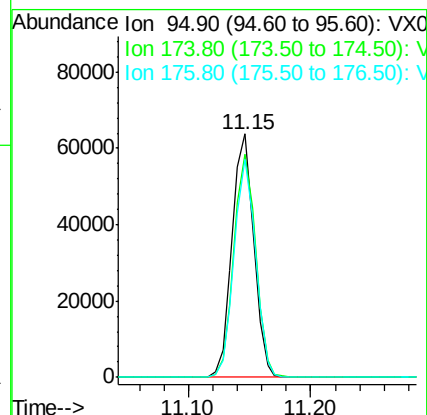
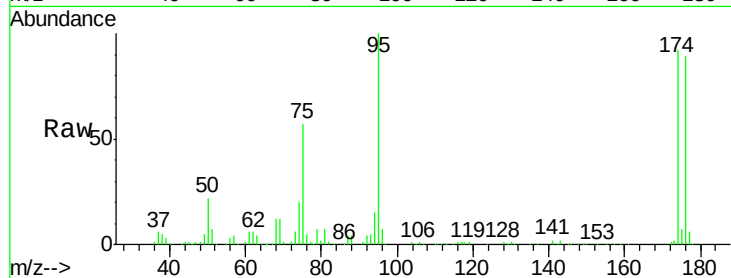
Tot Ion: 95 Resp: 78303

Ion Ratio Lower Upper

95 100

174 92.2 0.0 173.6

176 88.2 0.0 164.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

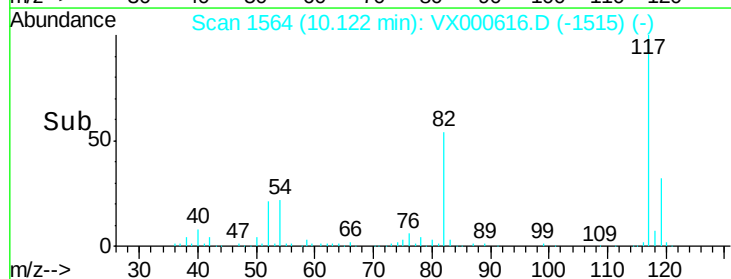
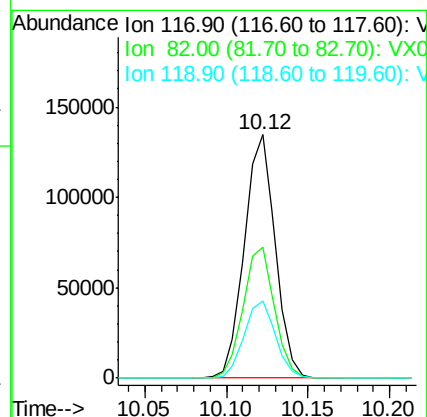
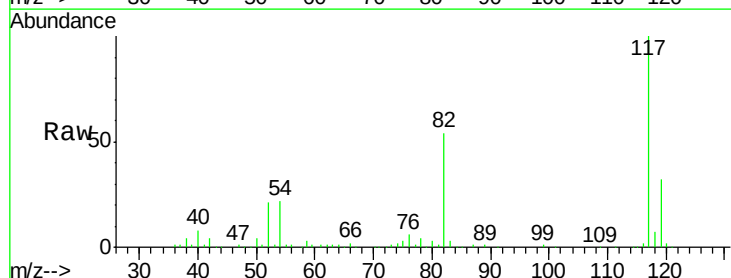
Tgt Ion: 117 Resp: 177871

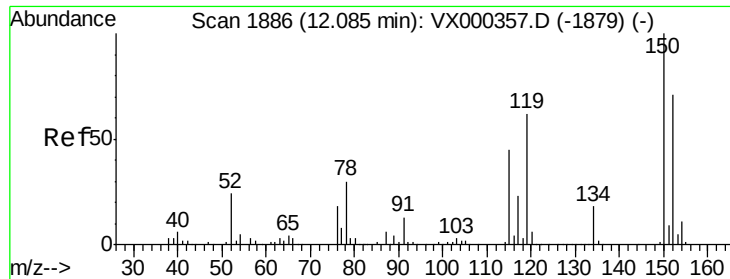
Ion Ratio Lower Upper

117 100

82 53.6 43.8 65.8

119 31.9 24.9 37.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

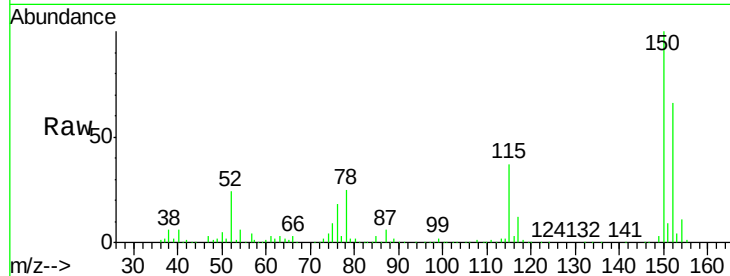
Tot Ion:152 Resp: 95430

Ion Ratio Lower Upper

152 100

115 56.5 39.8 119.3

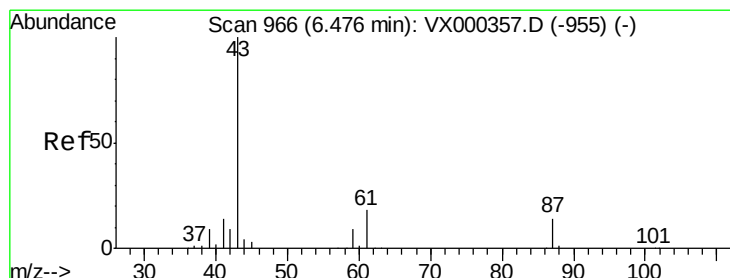
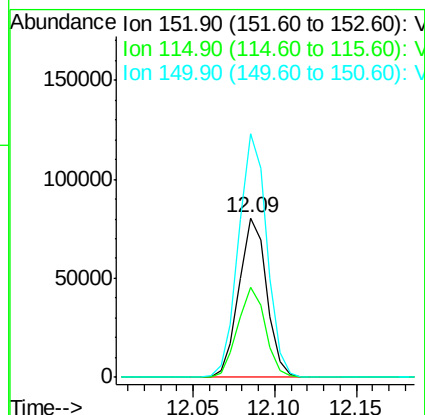
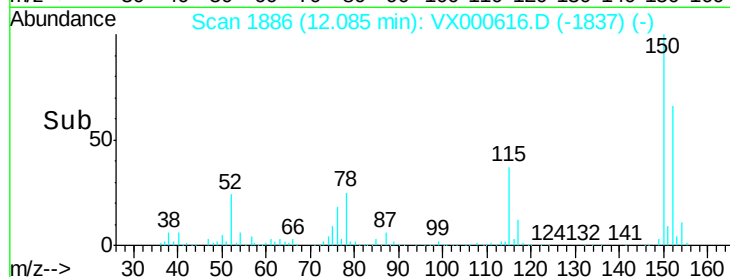
150 156.1 0.0 344.4



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-ethyl acetate

Concen: Below Cal

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Tgt Ion: 43 Resp: 3256

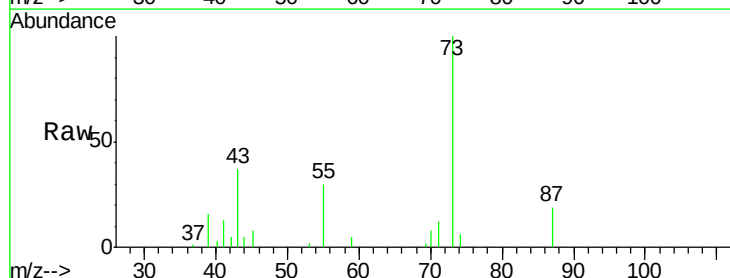
Ion Ratio Lower Upper

43 100

70 19.9 0.0 0.0#

55 93.5 0.0 0.0#

61 0.0 14.4 21.6#

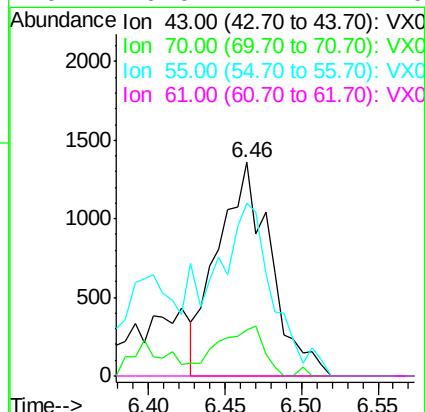
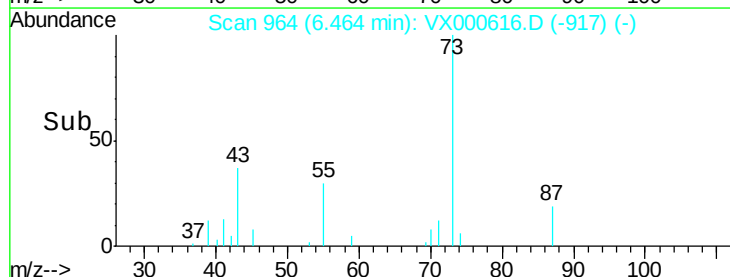


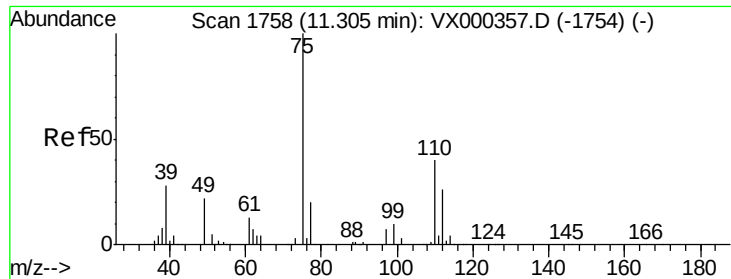
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.199 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Instrument :

MSVOA_X

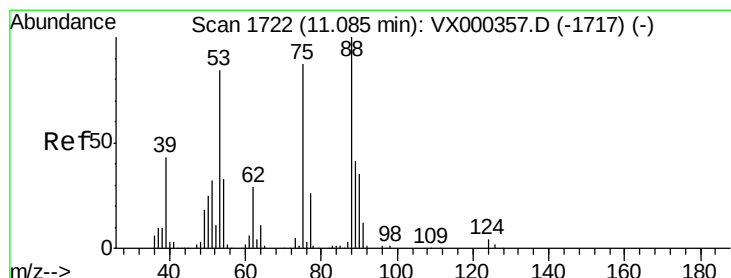
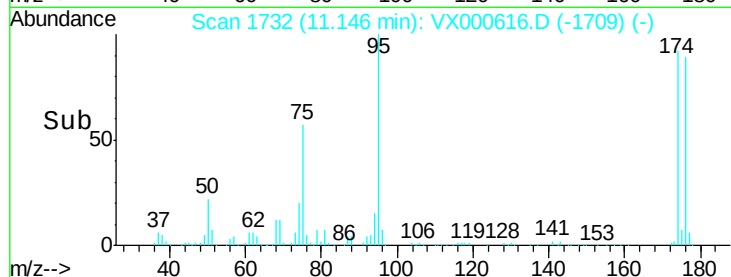
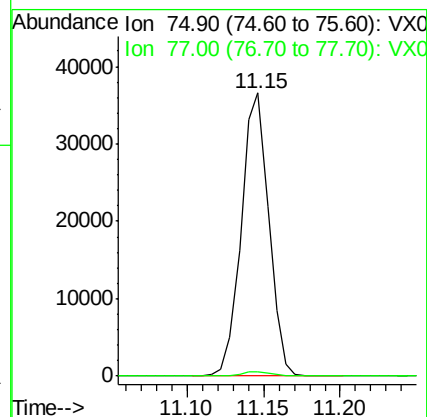
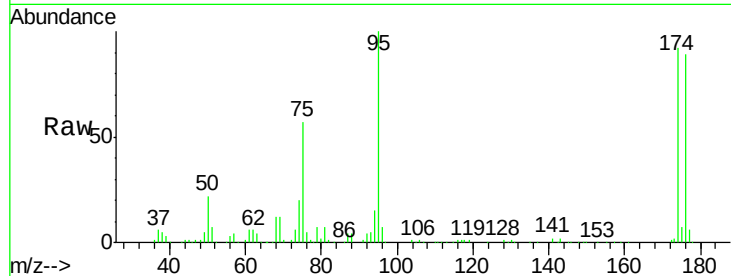
ClientSampleId :

Tot Ion: 75 Resp: 45527

Ion Ratio Lower Upper

75 100

77 1.5 21.4 64.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.869 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000616.D

Acq: 01 Apr 2018 01:56

Tgt Ion: 75 Resp: 45527

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

89 0.0 39.4 59.0#

