

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053118\
 Data File : VX002204.D
 Acq On : 01 Jun 2018 07:49
 Operator : JC/MD
 Sample : J3119-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 01 08:15:49 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	261102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	380941	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	344194	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	188682	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	223643	47.92	ug/l	0.00
Spiked Amount						
			Recovery	=	95.84%	
35) Dibromofluoromethane	5.51	113	164070	43.07	ug/l	0.00
Spiked Amount						
			Recovery	=	86.14%	
50) Toluene-d8	8.72	98	654234	47.44	ug/l	0.00
Spiked Amount						
			Recovery	=	94.88%	
62) 4-Bromofluorobenzene	11.14	95	230086	42.64	ug/l	0.00
Spiked Amount						
			Recovery	=	85.28%	

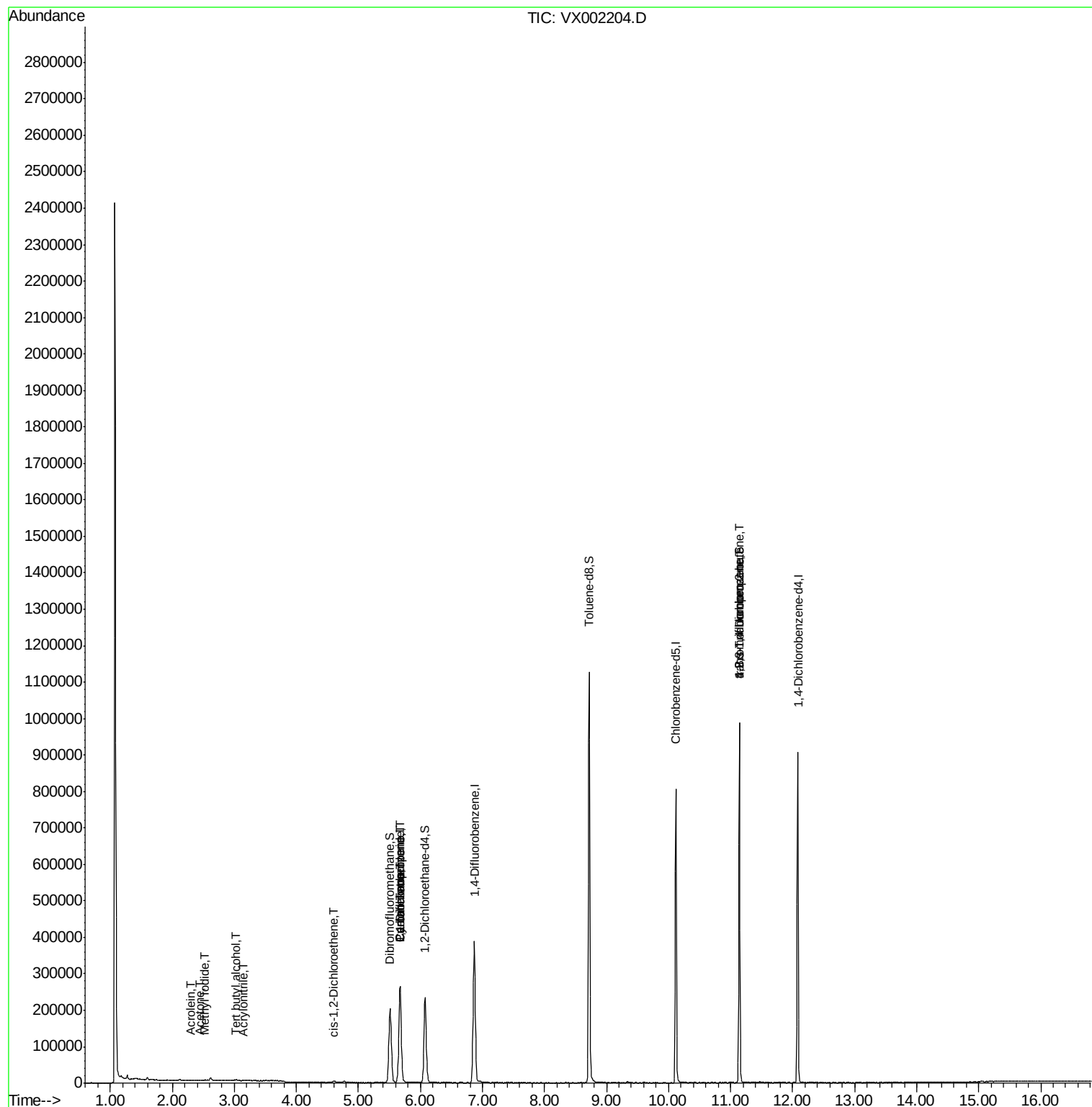
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	134	Below Cal	#	41
5) Bromomethane	1.66	94	1120	Below Cal		87
10) Methyl Iodide	2.52	142	1432	0.33	ug/l #	83
11) Tert butyl alcohol	3.03	59	1251	1.37	ug/l #	89
13) Acrolein	2.29	56	355	0.90	ug/l #	45
15) Acrylonitrile	3.14	53	401	0.21	ug/l #	57
16) Acetone	2.45	43	831	0.46	ug/l	93
18) Methyl Acetate	2.79	43	261	Below Cal		98
20) Methylene Chloride	2.85	84	427	Below Cal	#	48
21) trans-1,2-Dichloroethene	3.17	96	86	Below Cal	#	18
27) cis-1,2-Dichloroethene	4.60	96	1095	0.28	ug/l #	1
28) Bromochloromethane	5.03	49	19	Below Cal	#	14
31) Cyclohexane	5.67	56	5813	0.90	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18900	3.57	ug/l #	52
38) Carbon Tetrachloride	5.67	117	24127	3.90	ug/l #	15
41) Methacrylonitrile	5.06	41	73	Below Cal	#	1
74) N-amyl acetate	6.46	43	170	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.32	83	55	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	125617	27.72	ug/l #	32
79) 2-Chlorotoluene	11.42	91	148	Below Cal		88
81) trans-1,4-Dichloro-2-buten	11.14	75	125617	66.62	ug/l #	10

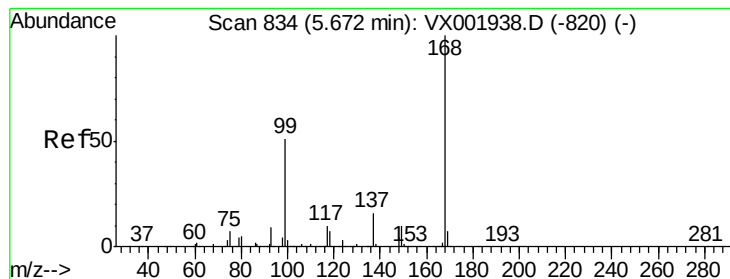
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

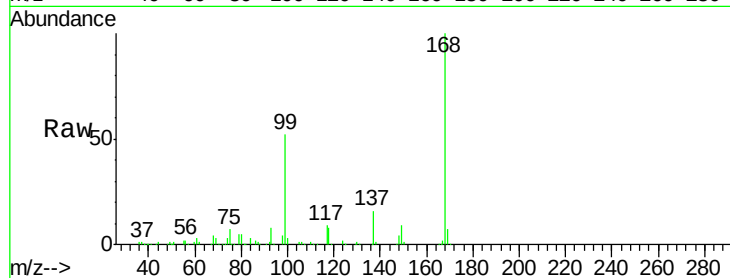
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 261102

Ion Ratio Lower Upper

168 100

99 52.3 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

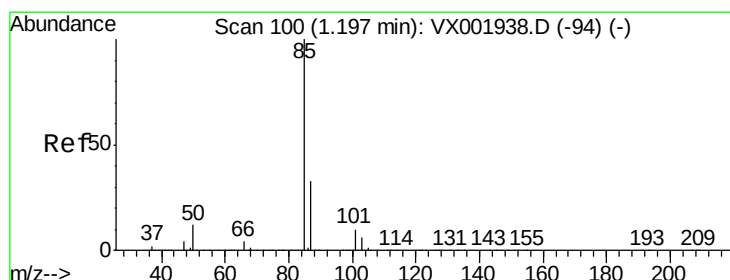
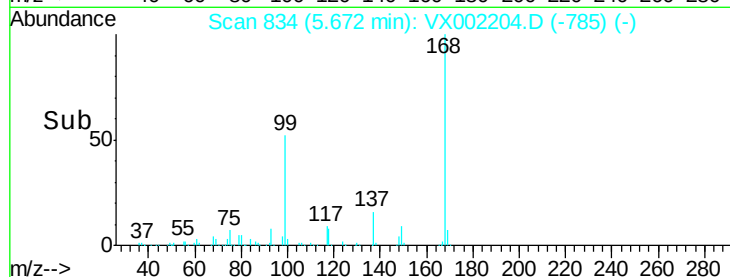
40000

20000

0

5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX002204.D

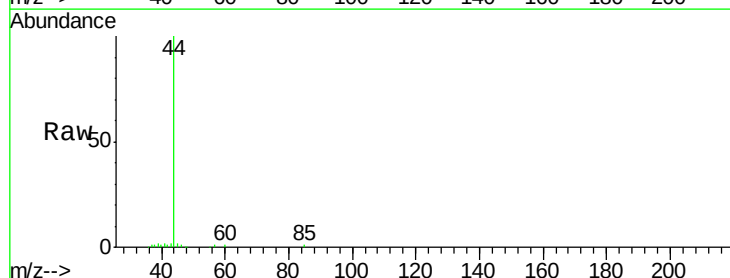
Acq: 01 Jun 2018 07:49

Tgt Ion: 85 Resp: 134

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

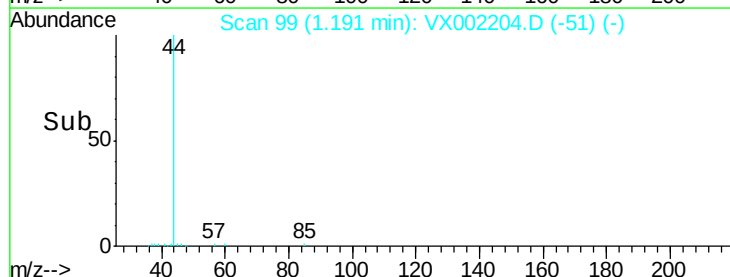
100

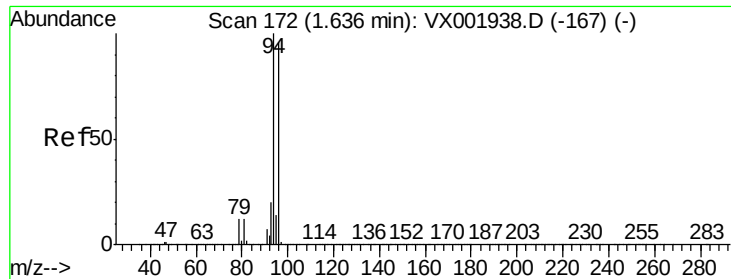
50

0

1.16 1.18 1.20 1.22

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

Instrument :

MSVOA_X

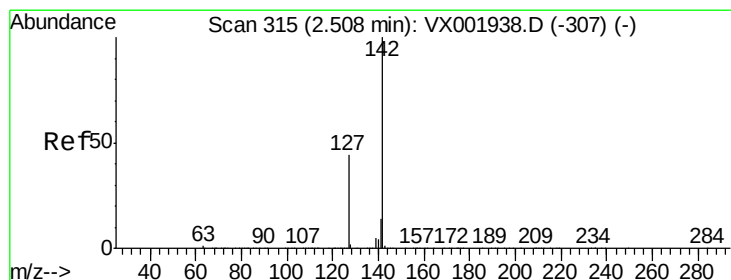
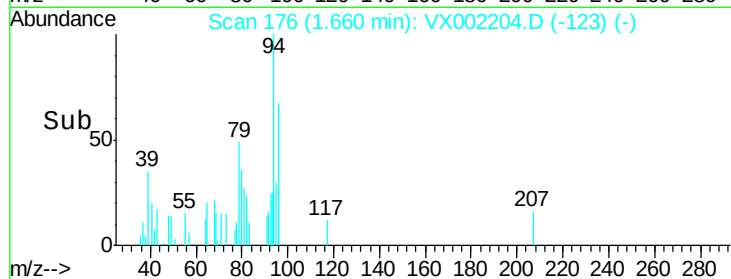
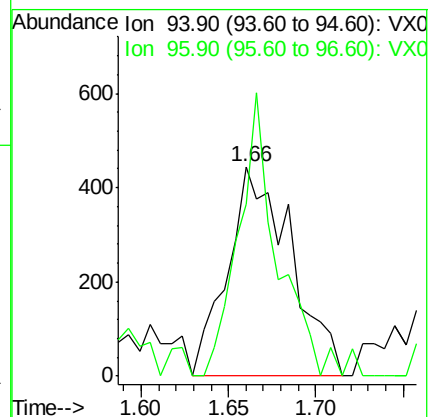
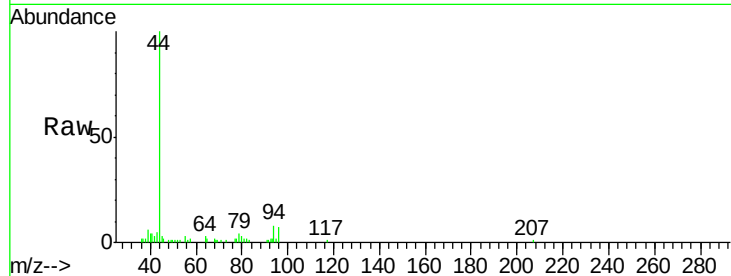
ClientSampleId :

Tot Ion: 94 Resp: 1120

Ion Ratio Lower Upper

94 100

96 82.4 75.9 113.9



#10

Methyl Iodide

Concen: 0.33 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

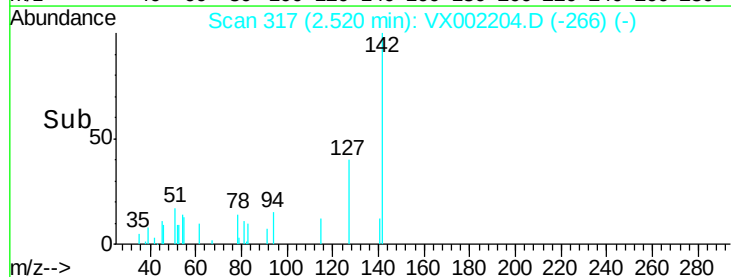
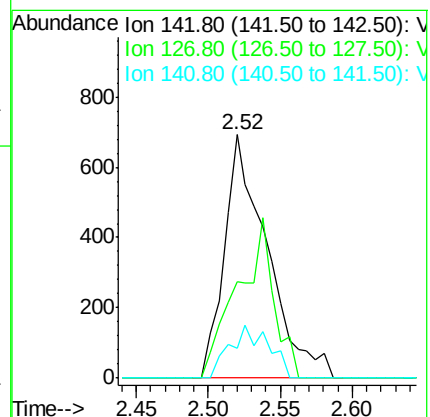
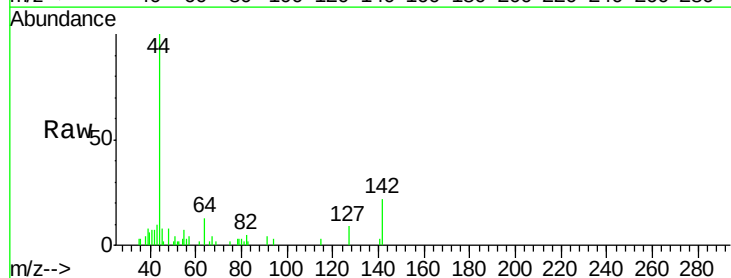
Tgt Ion: 142 Resp: 1432

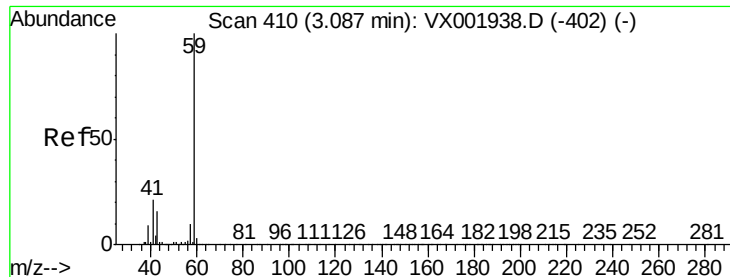
Ion Ratio Lower Upper

142 100

127 55.8 35.5 53.3#

141 19.6 11.3 16.9#



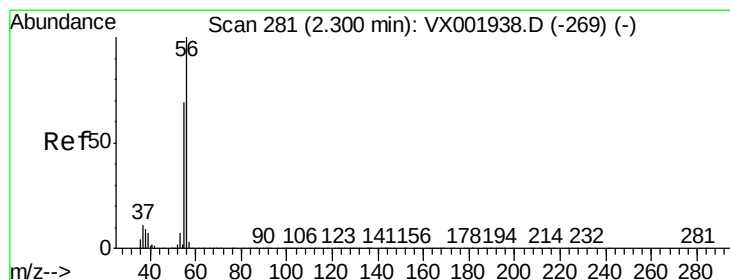
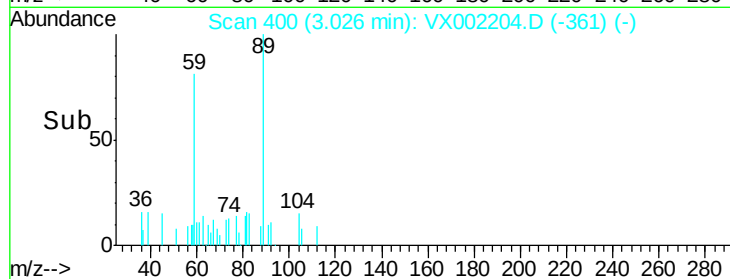
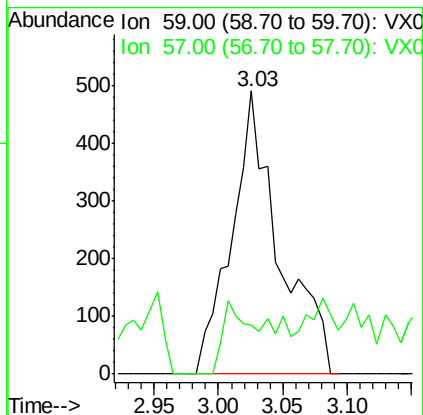
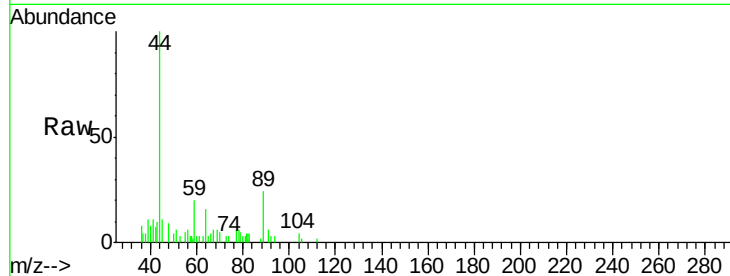


#11

Tert butyl alcohol
Concen: 1.37 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.06 min
Lab File: VX002204.D
Acq: 01 Jun 2018 07:49

Instrument :
MSVOA_X
ClientSampled :

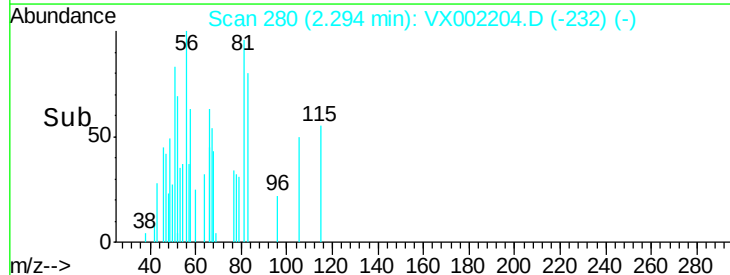
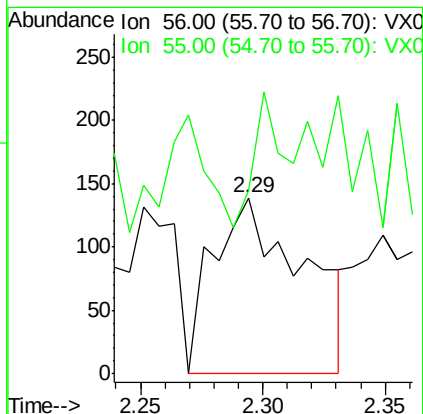
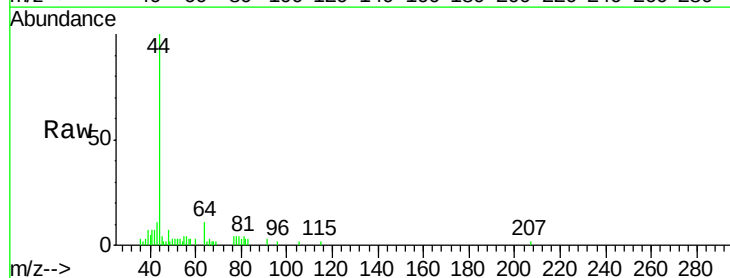
Tot Ion: 59 Resp: 1251
Ion Ratio Lower Upper
59 100
57 15.3 8.9 13.3#

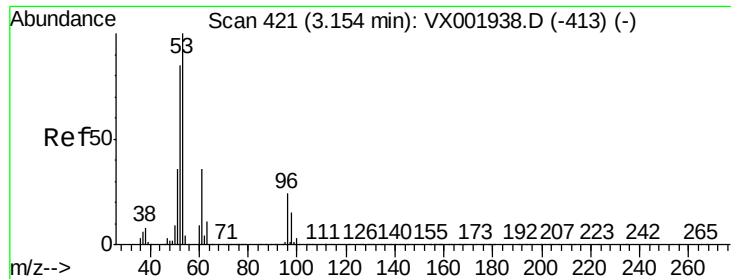


#13

Acrolein
Concen: 0.90 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX002204.D
Acq: 01 Jun 2018 07:49

Tgt Ion: 56 Resp: 355
Ion Ratio Lower Upper
56 100
55 25.6 56.8 85.2#

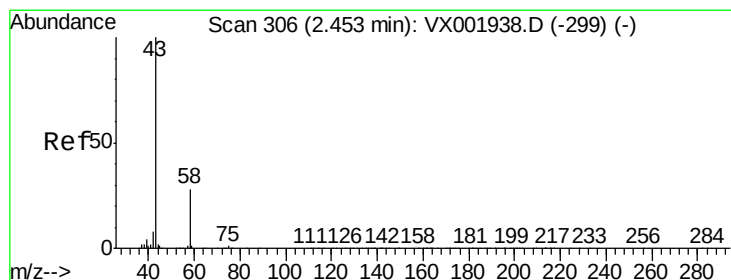
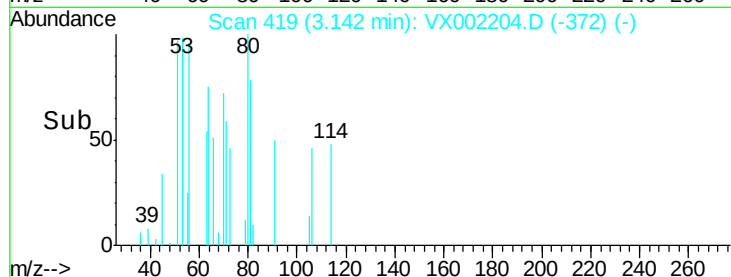
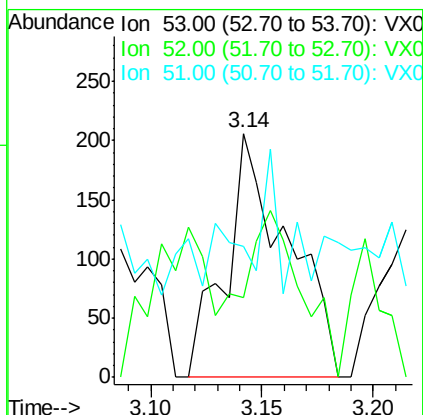
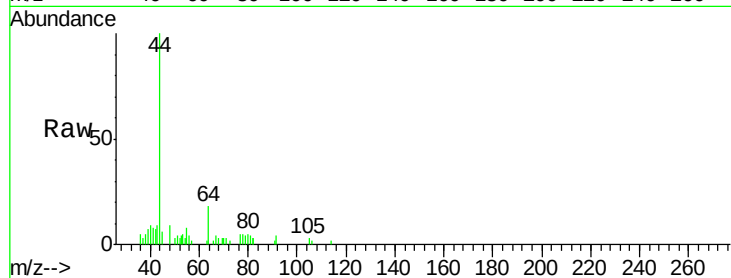




#15
 Acrylonitrile
 Concen: 0.21 ug/l
 RT: 3.14 min Scan# 419
 Delta R.T. -0.01 min
 Lab File: VX002204.D
 Acq: 01 Jun 2018 07:49

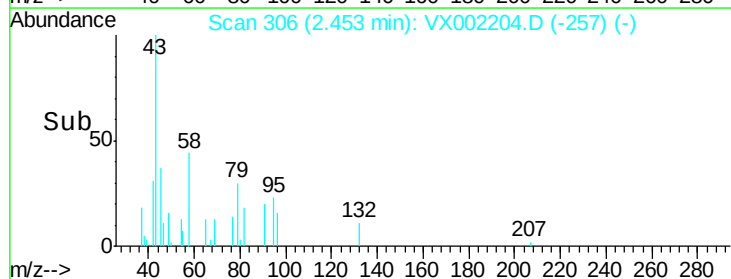
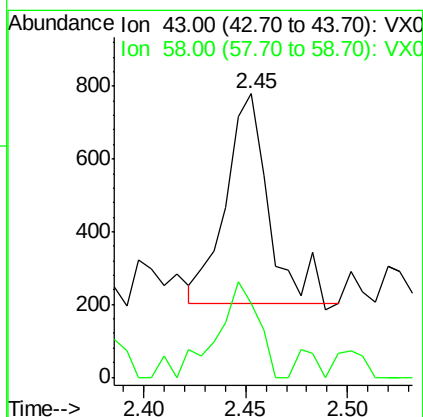
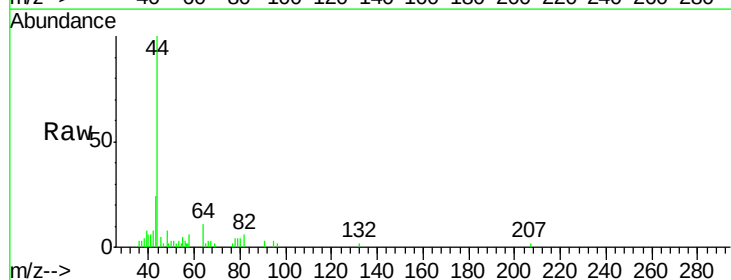
Instrument :
 MSVOA_X
 ClientSampled :

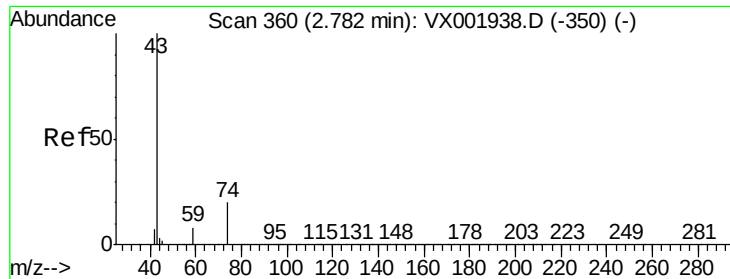
Tot Ion: 53 Resp: 401
 Ion Ratio Lower Upper
 53 100
 52 51.9 66.4 99.6#
 51 0.0 29.3 43.9#



#16
 Acetone
 Concen: 0.46 ug/l
 RT: 2.45 min Scan# 306
 Delta R.T. -0.00 min
 Lab File: VX002204.D
 Acq: 01 Jun 2018 07:49

Tgt Ion: 43 Resp: 831
 Ion Ratio Lower Upper
 43 100
 58 24.2 22.3 33.5

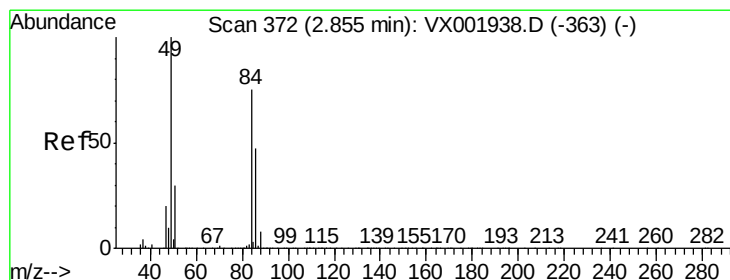
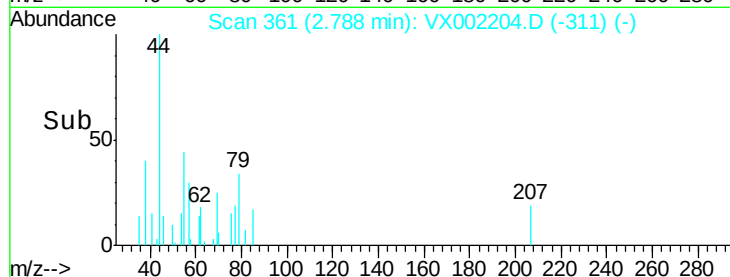
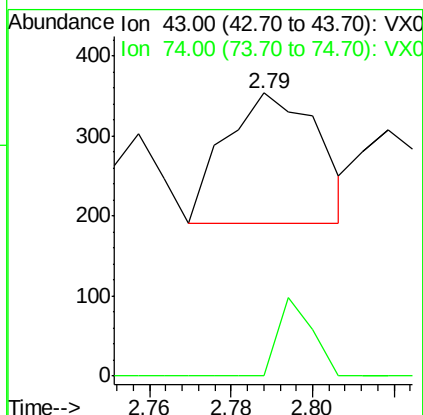
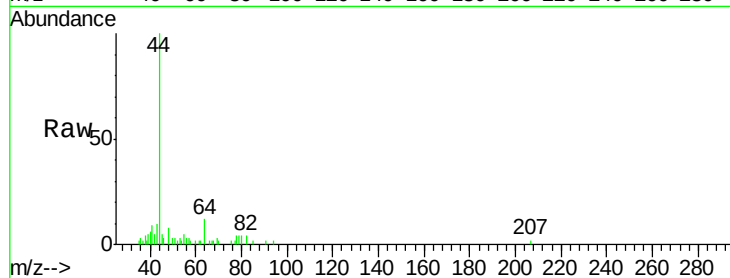




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002204.D
Acq: 01 Jun 2018 07:49

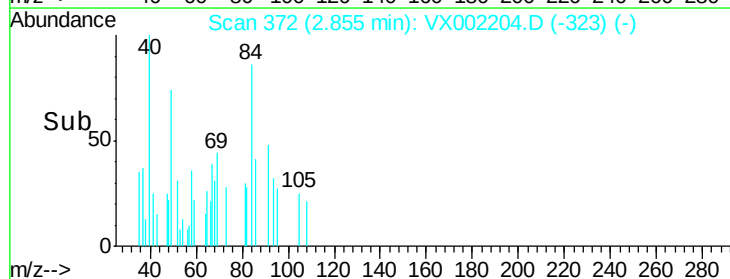
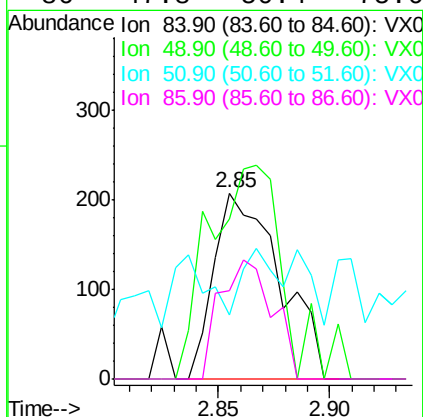
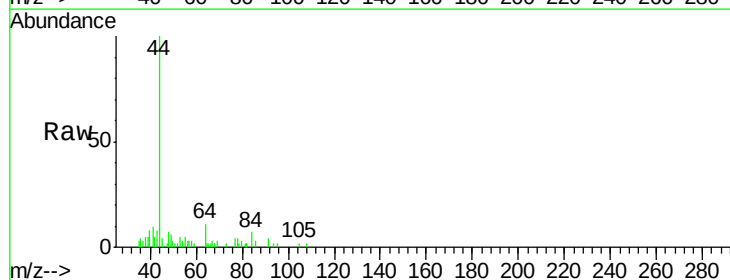
Instrument :
MSVOA_X
ClientSampled :

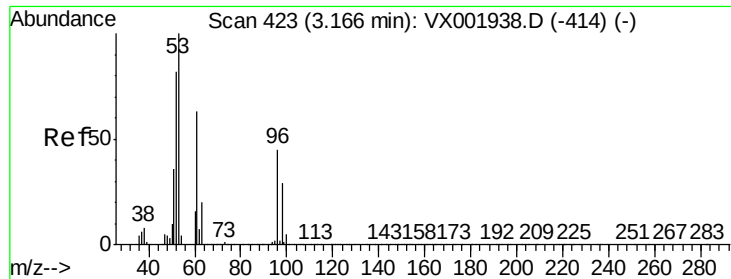
Tot Ion: 43 Resp: 261
Ion Ratio Lower Upper
43 100
74 21.8 16.8 25.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX002204.D
Acq: 01 Jun 2018 07:49

Tgt Ion: 84 Resp: 427
Ion Ratio Lower Upper
84 100
49 59.9 107.2 160.8#
51 0.0 32.4 48.6#
86 47.8 50.4 75.6#





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

Instrument :

MSVOA_X

ClientSampleId :

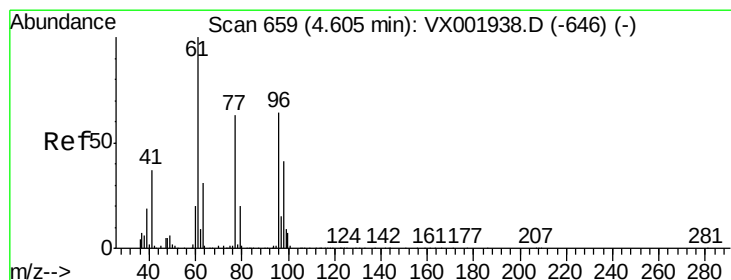
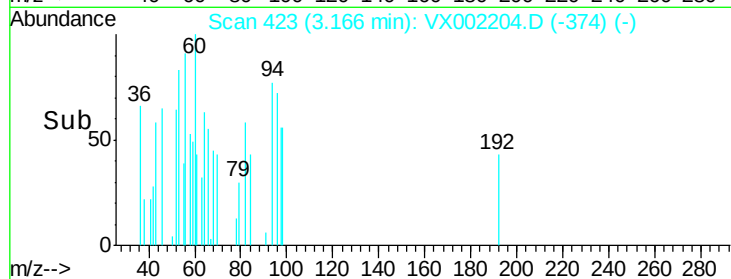
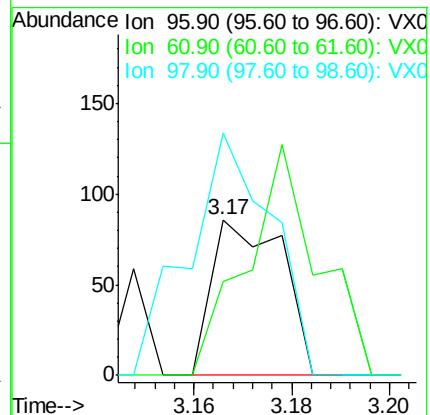
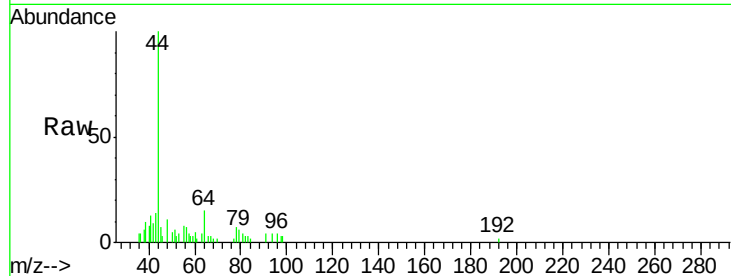
Tot Ion: 96 Resp: 86

Ion Ratio Lower Upper

96 100

61 60.5 113.3 169.9#

98 155.8 51.7 77.5#



#27

cis-1,2-Dichloroethene

Concen: 0.28 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

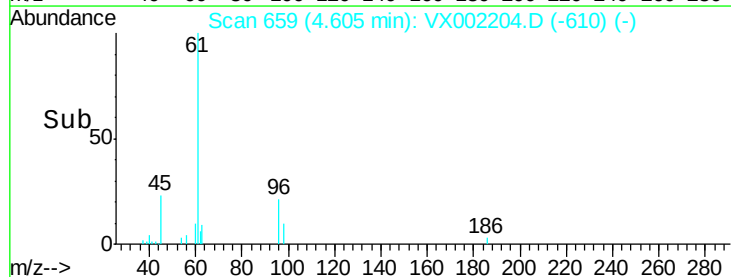
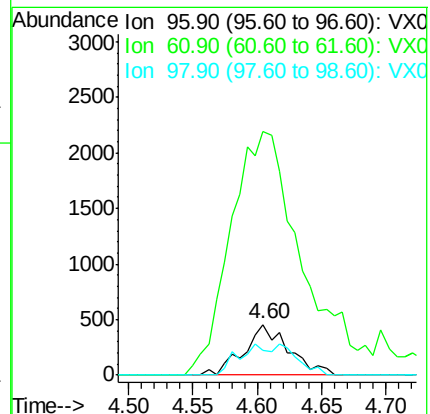
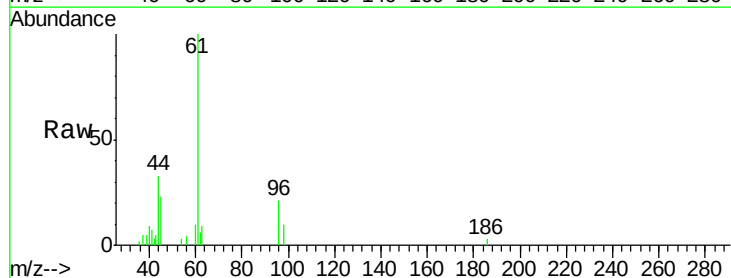
Tgt Ion: 96 Resp: 1095

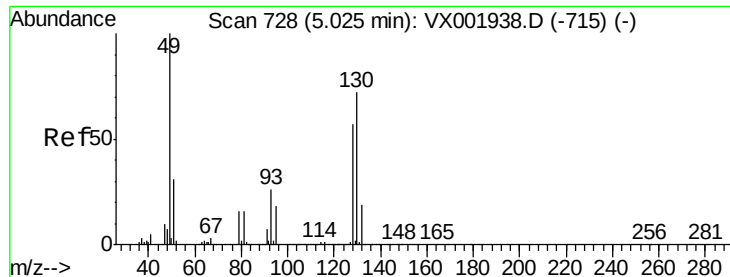
Ion Ratio Lower Upper

96 100

61 757.4 0.0 348.4#

98 43.9 0.0 128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

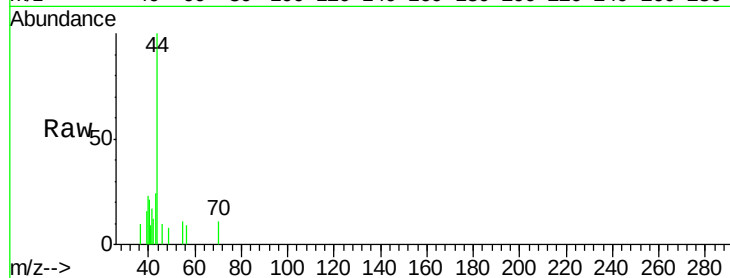
Delta R.T. 0.01 min

Lab File: VX002204.D

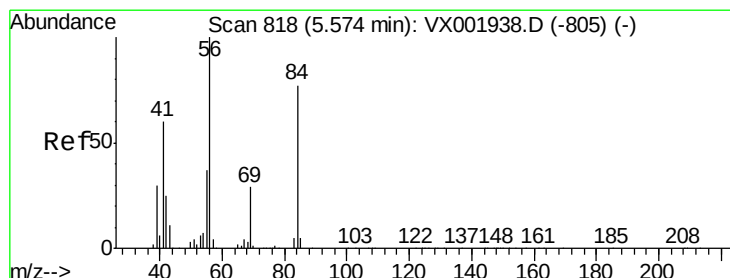
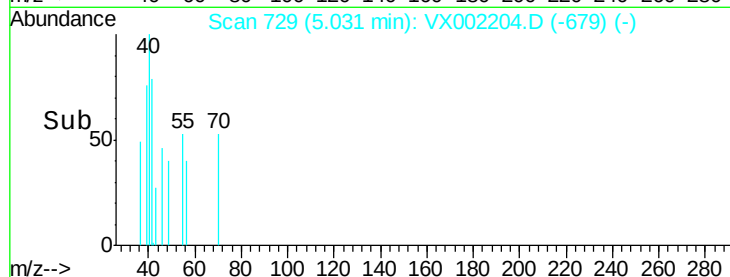
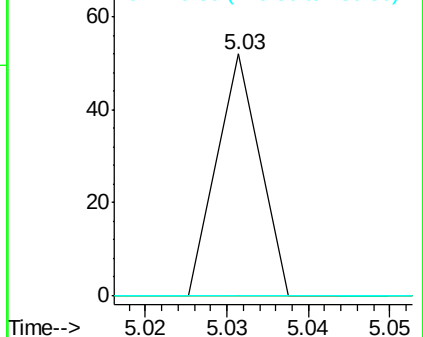
Acq: 01 Jun 2018 07:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	49	Resp:	19
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#



Abundance Ion 48.90 (48.60 to 49.60): VX0



#31

Cyclohexane

Concen: 0.90 ug/l

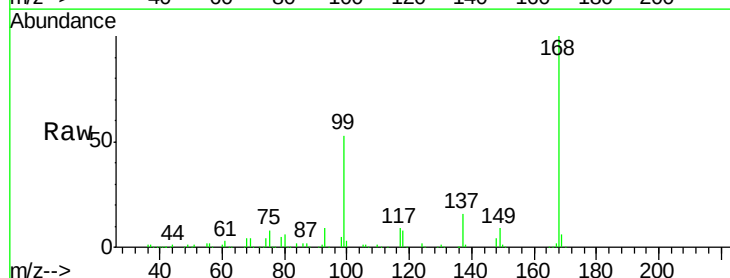
RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

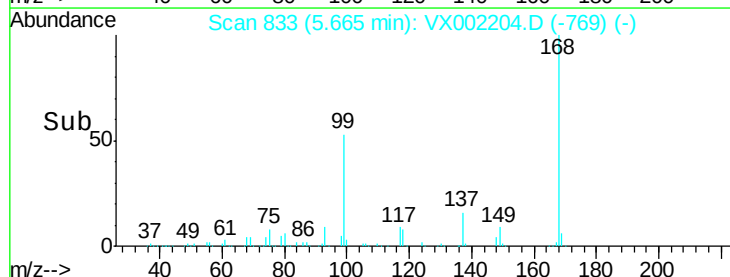
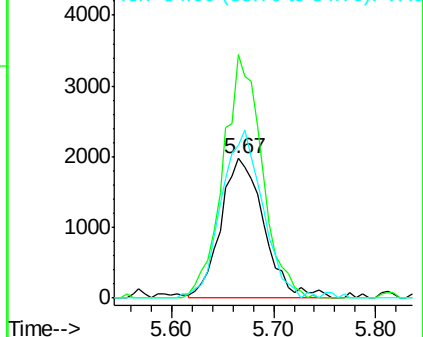
Lab File: VX002204.D

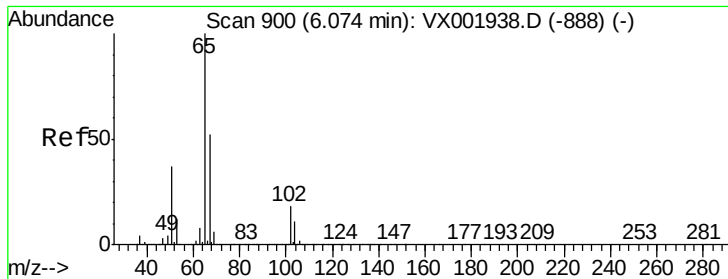
Acq: 01 Jun 2018 07:49

Tgt Ion:	56	Resp:	5813
Ion	Ratio	Lower	Upper
56	100		
69	174.6	23.1	34.7#
84	109.7	62.0	93.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

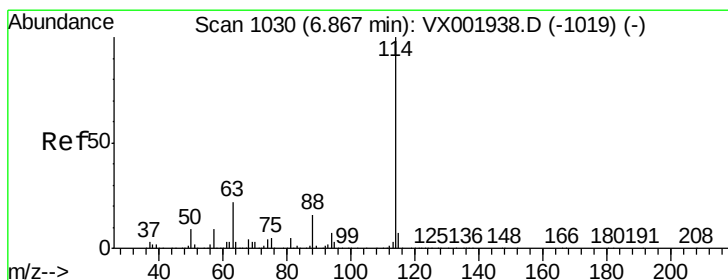
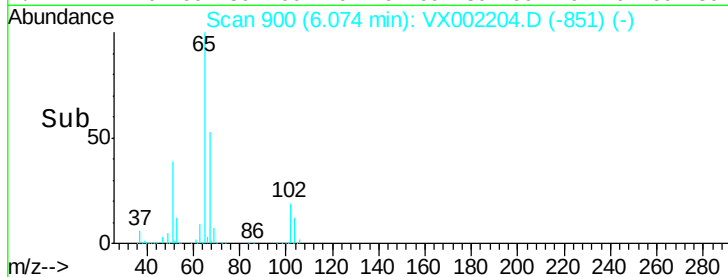
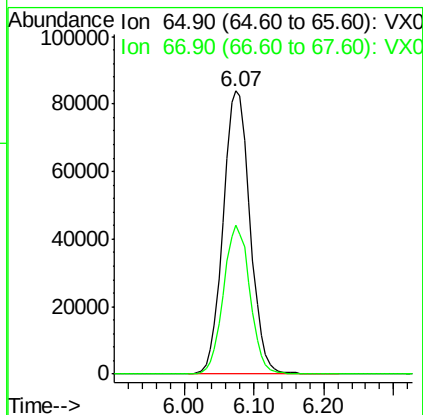
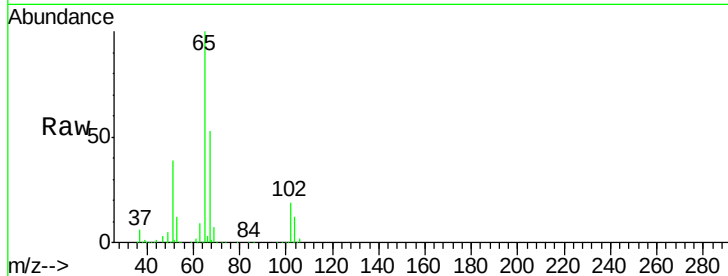




#33
 1,2-Dichloroethane-d4
 Concen: 47.92 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002204.D
 Acq: 01 Jun 2018 07:49

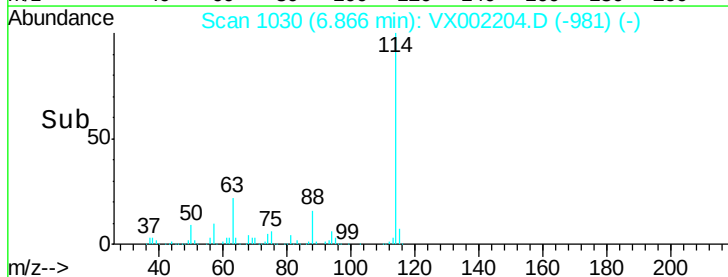
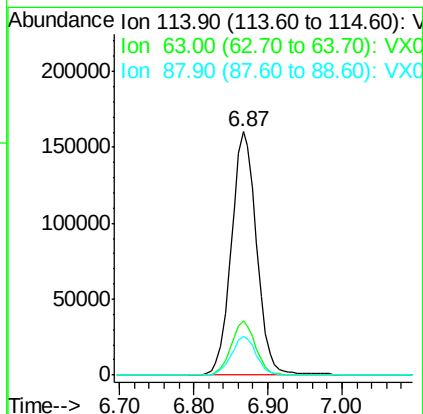
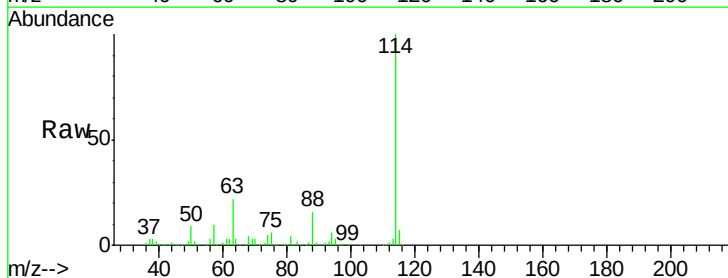
Instrument :
 MSVOA_X
 ClientSampleId :

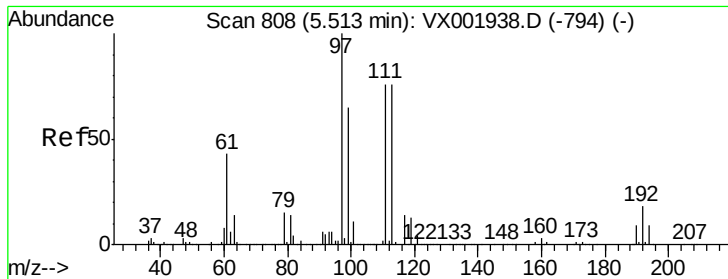
Tot Ion: 65 Resp: 223643
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002204.D
 Acq: 01 Jun 2018 07:49

Tgt Ion: 114 Resp: 380941
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.2
 88 15.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 43.07 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

Instrument :

MSVOA_X

ClientSampleId :

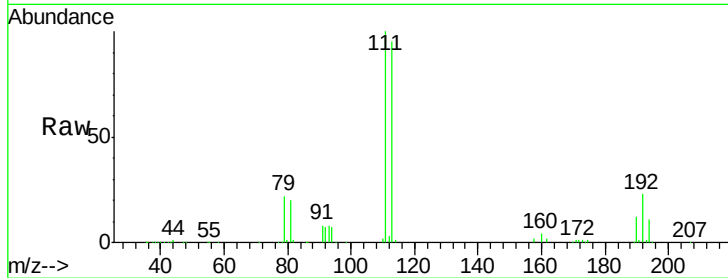
Tot Ion:113 Resp: 164070

Ion Ratio Lower Upper

113 100

111 102.7 82.0 123.0

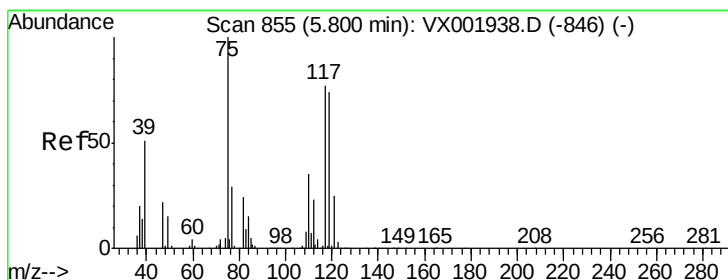
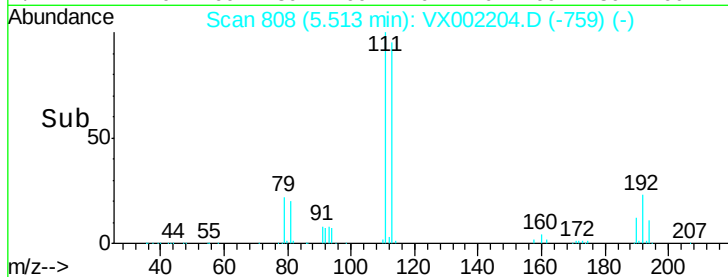
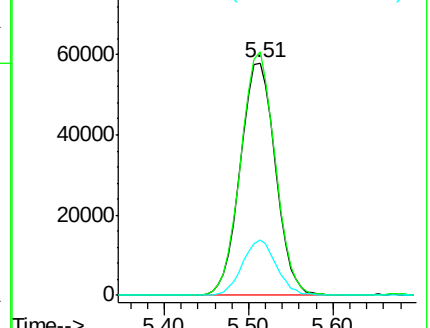
192 23.0 18.9 28.3



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: 3.57 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

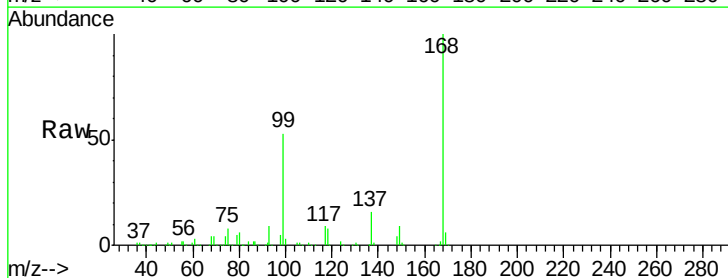
Tgt Ion: 75 Resp: 18900

Ion Ratio Lower Upper

75 100

110 10.3 17.4 52.2#

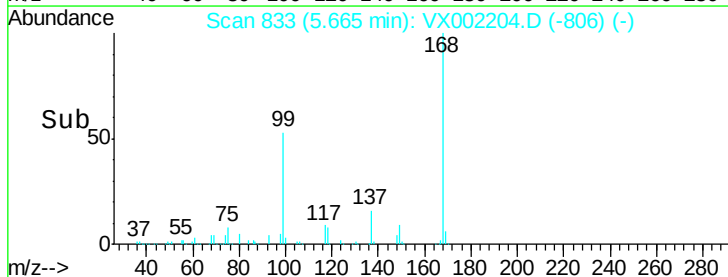
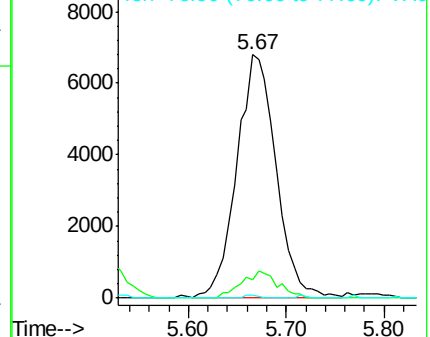
77 0.4 24.4 36.6#

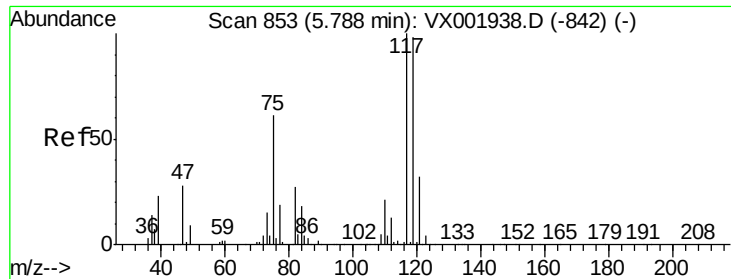


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 3.90 ua/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

Instrument :
MSVOA_X
ClientSampled :

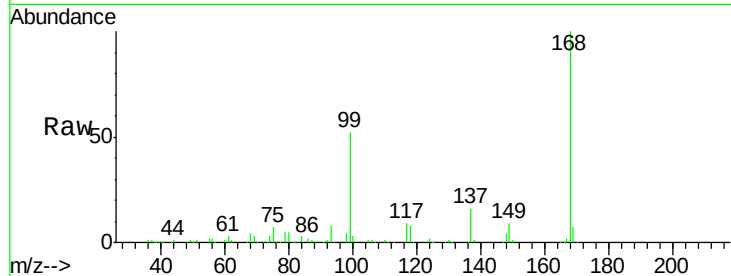
Tot Ion:117 Resp: 24127

Ion Ratio Lower Upper

117 100

119 5.6 78.5 117.7#

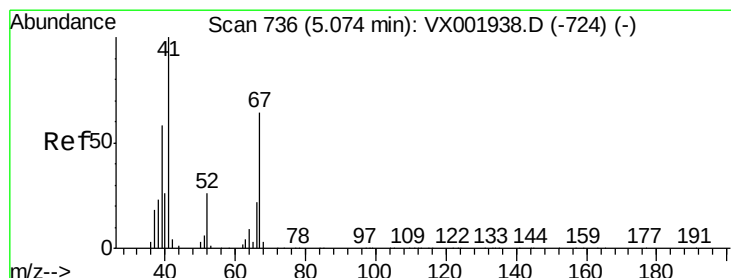
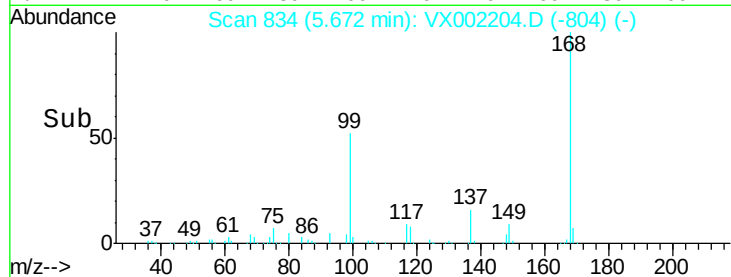
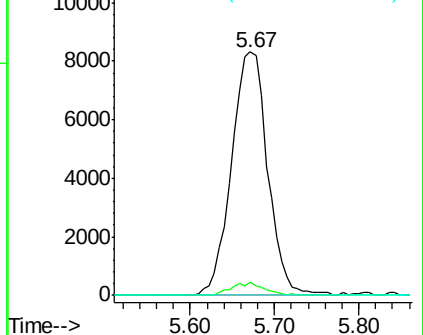
121 0.0 25.5 38.3#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 5.06 min Scan# 734

Delta R.T. -0.01 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

Tgt Ion: 41 Resp: 73

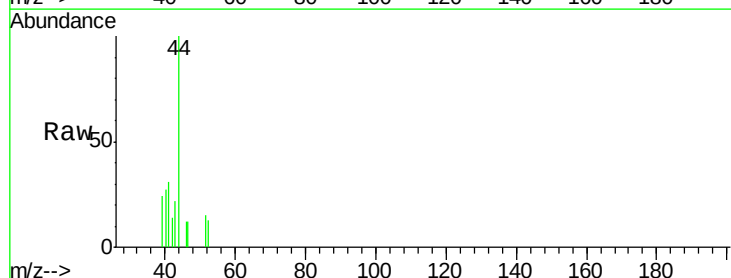
Ion Ratio Lower Upper

41 100

39 276.7 46.0 69.0#

67 0.0 50.6 75.8#

52 0.0 21.9 32.9#

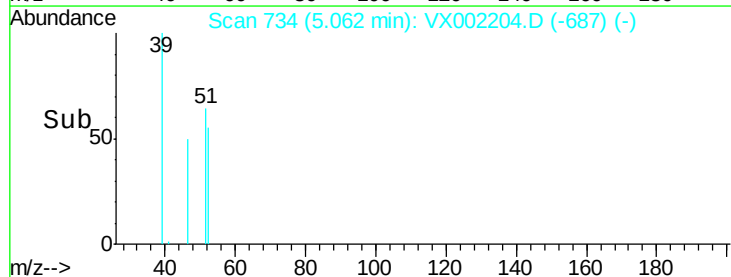
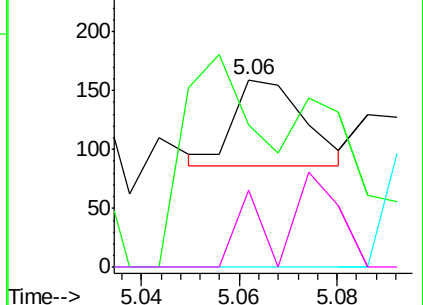


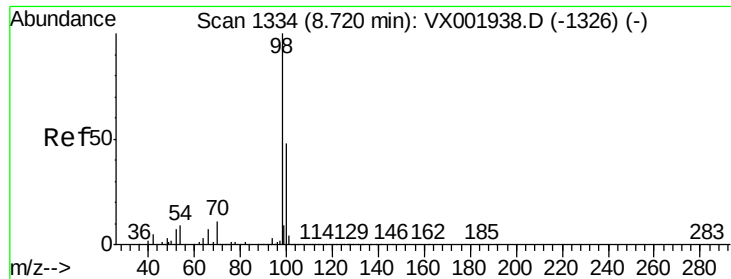
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

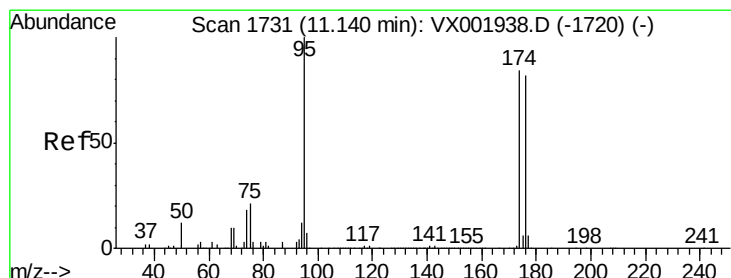
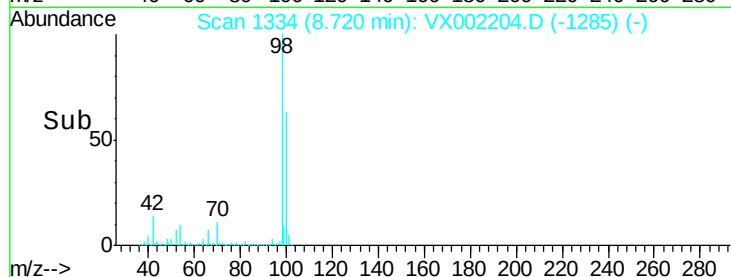
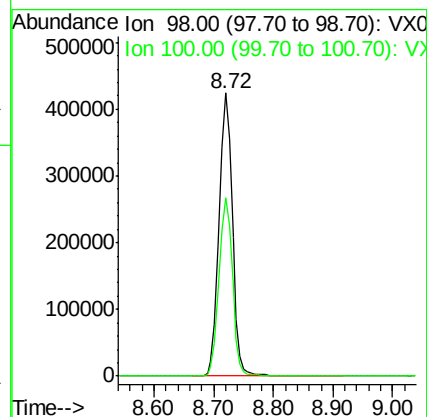
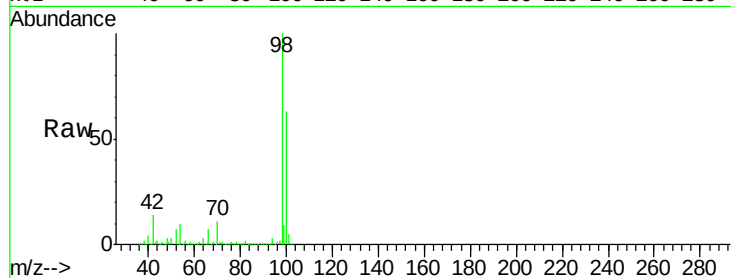




#50
Toluene-d8
Concen: 47.44 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002204.D
Acq: 01 Jun 2018 07:49

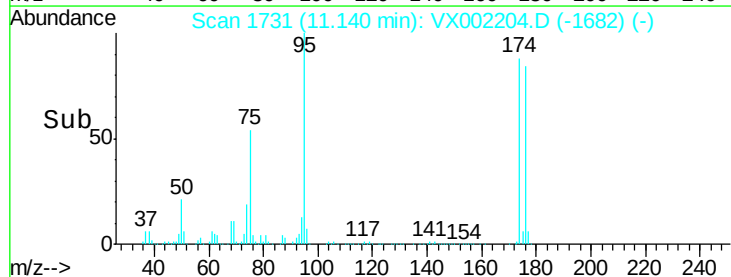
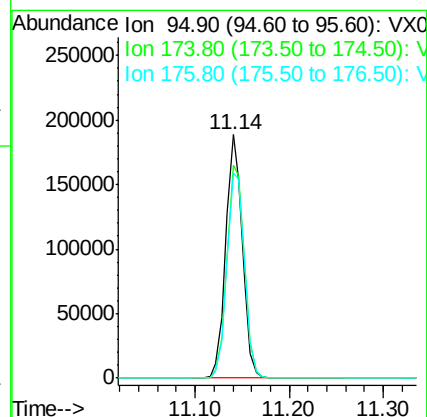
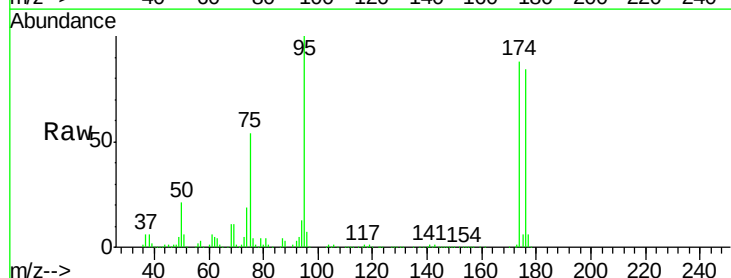
Instrument :
MSVOA_X
ClientSampleId :

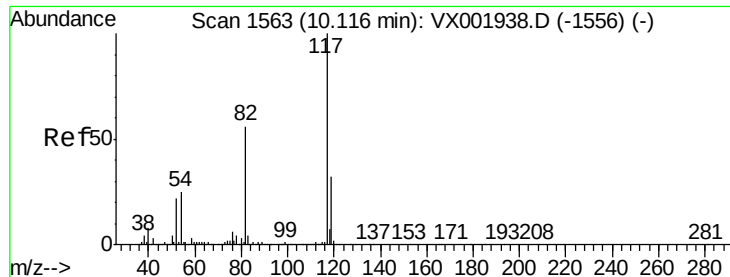
Tot Ion: 98 Resp: 654234
Ion Ratio Lower Upper
98 100
100 63.5 51.5 77.3



#62
4-Bromofluorobenzene
Concen: 42.64 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002204.D
Acq: 01 Jun 2018 07:49

Tgt Ion: 95 Resp: 230086
Ion Ratio Lower Upper
95 100
174 91.7 0.0 178.8
176 89.6 0.0 175.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

Instrument :

MSVOA_X

ClientSampleId :

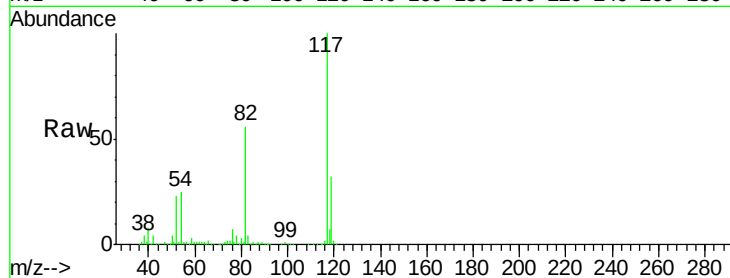
Tot Ion:117 Resp: 344194

Ion Ratio Lower Upper

117 100

82 55.7 44.8 67.2

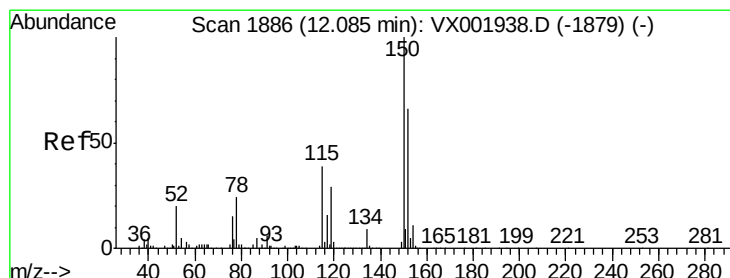
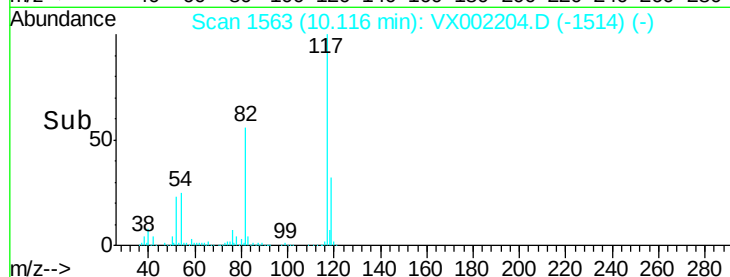
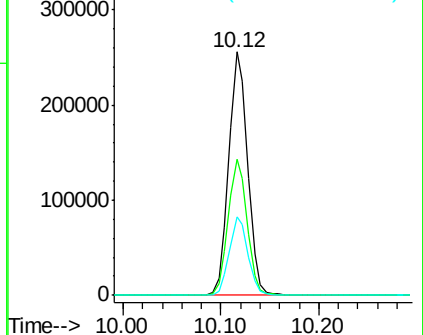
119 32.2 25.5 38.3



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

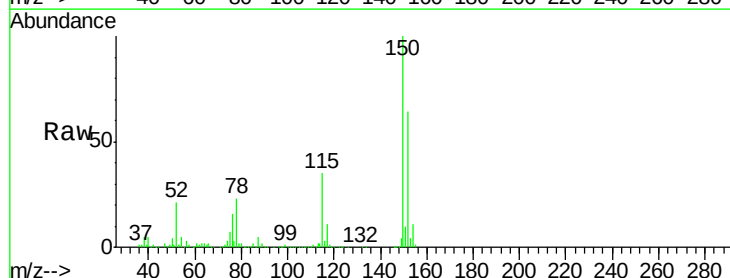
Tgt Ion:152 Resp: 188682

Ion Ratio Lower Upper

152 100

115 55.9 42.3 126.8

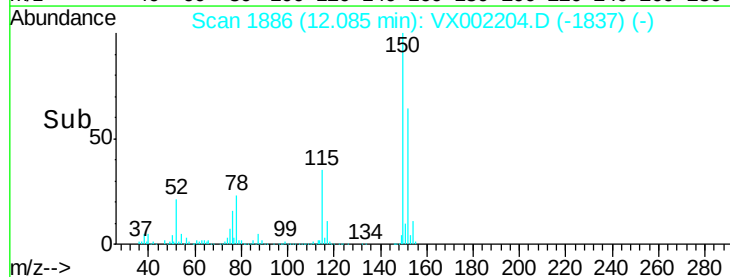
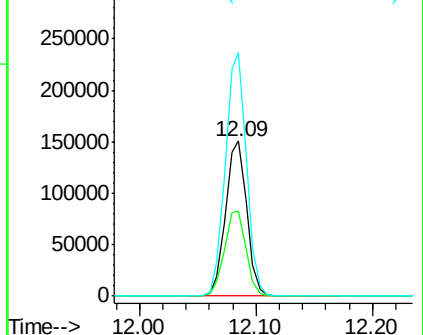
150 157.0 0.0 351.0

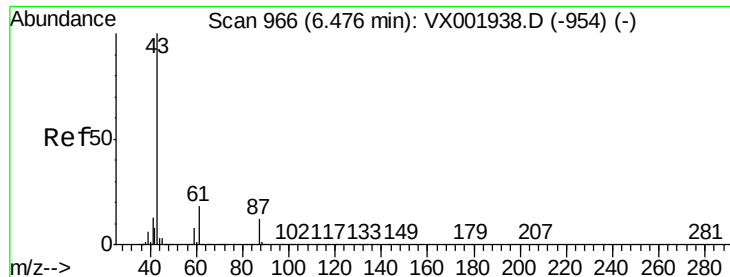


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 170

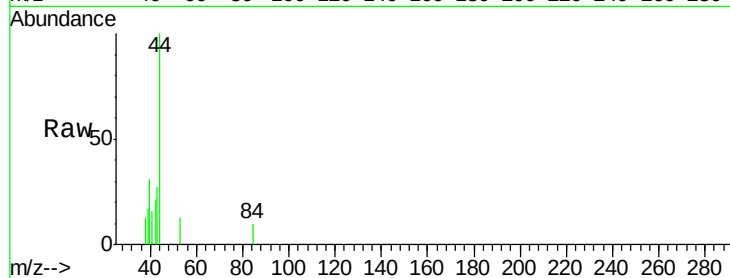
Ion Ratio Lower Upper

43 100

70 0.0 0.1 0.1#

55 0.0 0.1 0.1#

61 0.0 14.5 21.7#



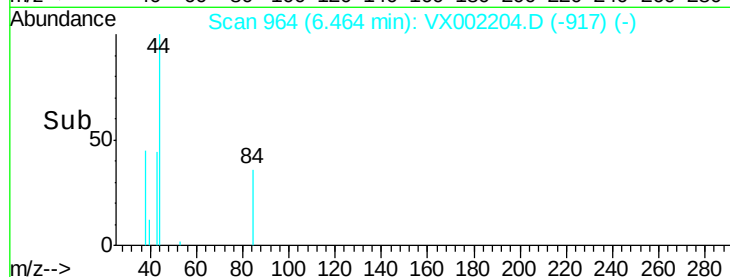
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

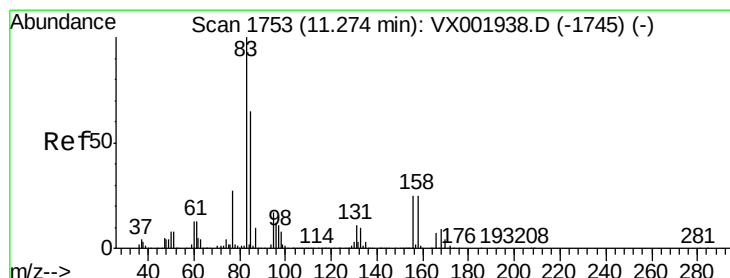
Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Time-->



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.32 min Scan# 1760

Delta R.T. 0.04 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

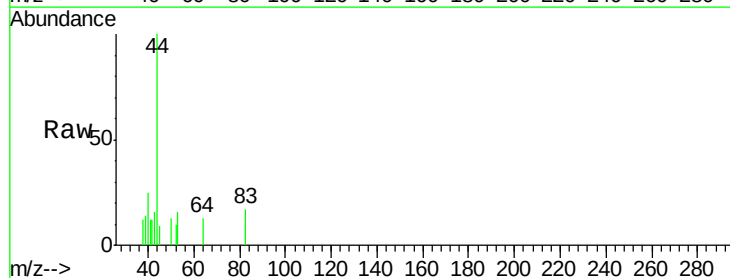
Tgt Ion: 83 Resp: 55

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

85 0.0 32.6 97.7#

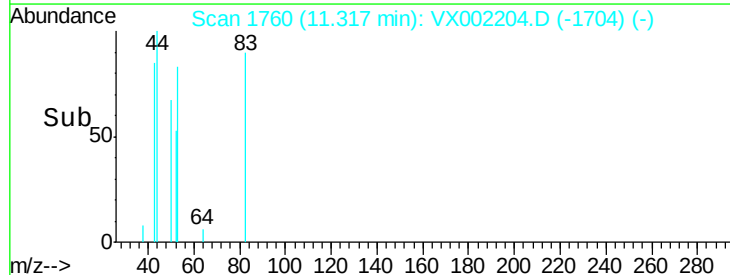


Abundance Ion 82.90 (82.60 to 83.60): VX0

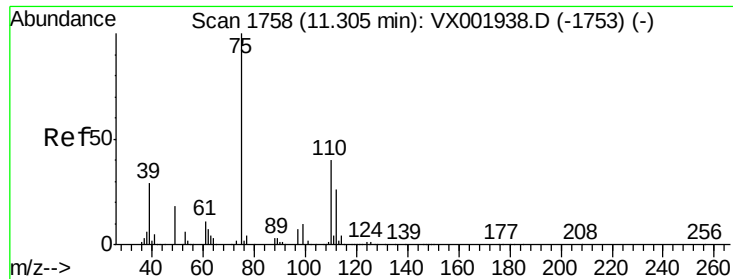
Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 27.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

Instrument :

MSVOA_X

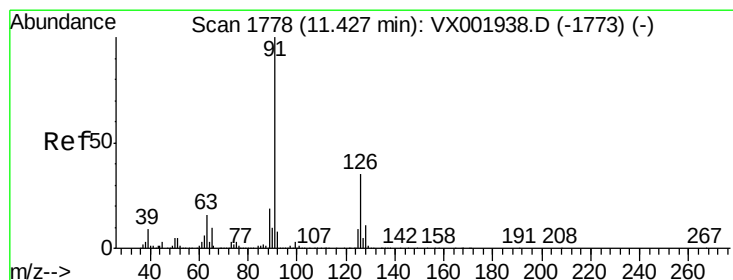
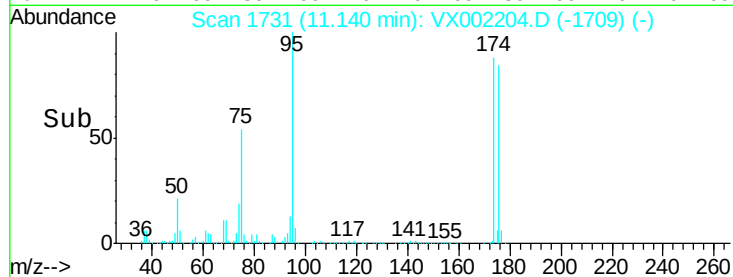
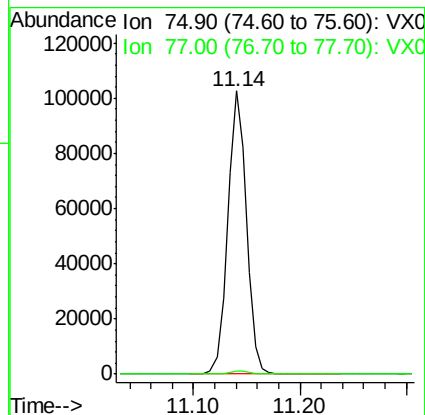
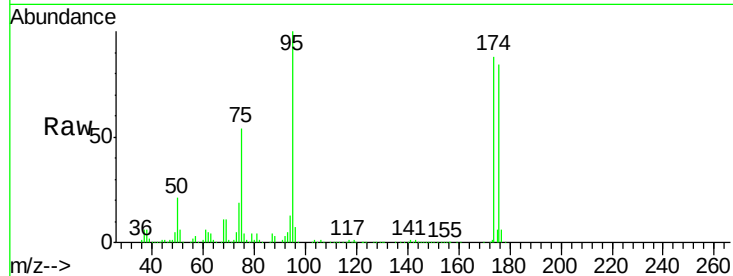
ClientSampled :

Tot Ion: 75 Resp: 125617

Ion Ratio Lower Upper

75 100

77 1.1 22.8 68.3#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.42 min Scan# 1777

Delta R.T. -0.01 min

Lab File: VX002204.D

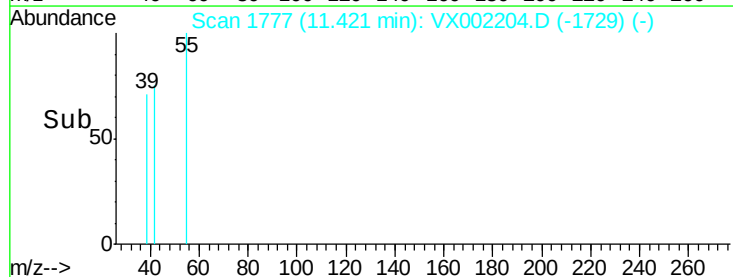
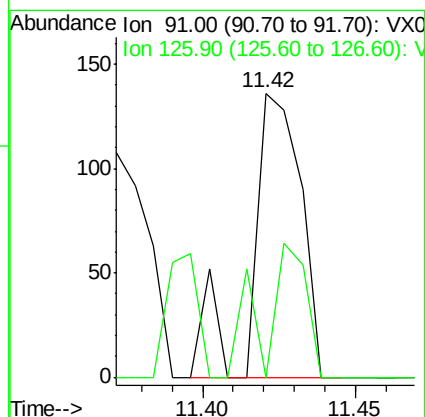
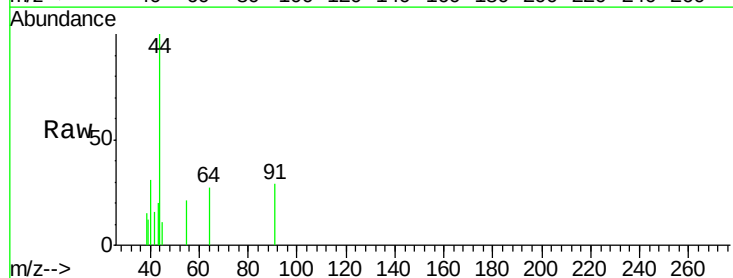
Acq: 01 Jun 2018 07:49

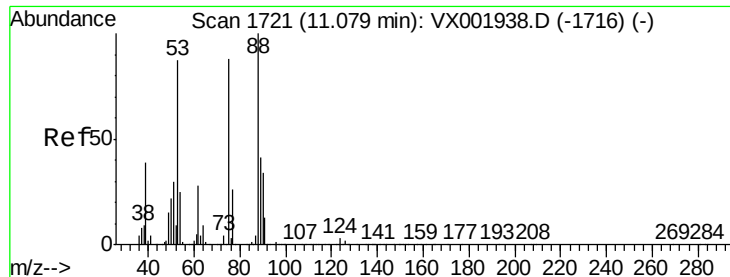
Tgt Ion: 91 Resp: 148

Ion Ratio Lower Upper

91 100

126 41.9 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 66.62 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002204.D

Acq: 01 Jun 2018 07:49

Instrument :

MSVOA_X

ClientSampleId :

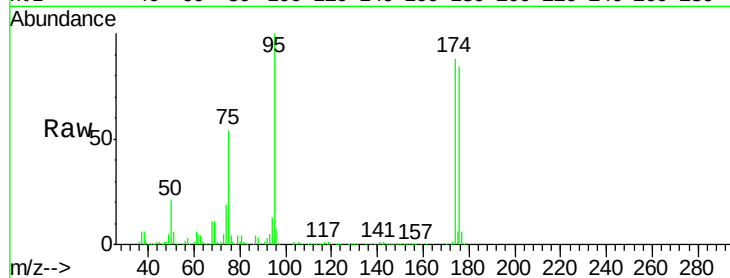
Tot Ion: 75 Resp: 125617

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

