

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX060118\
 Data File : VX002221.D
 Acq On : 01 Jun 2018 19:29
 Operator : JC/MD
 Sample : J3151-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 02 03:20:49 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	226796	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	330735	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	292043	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	154929	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	225048	55.51	ug/l	0.00
Spiked Amount			Recovery	=	111.02%	
35) Dibromofluoromethane	5.51	113	165504	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
50) Toluene-d8	8.72	98	661164	55.22	ug/l	0.00
Spiked Amount			Recovery	=	110.44%	
62) 4-Bromofluorobenzene	11.14	95	222518	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	

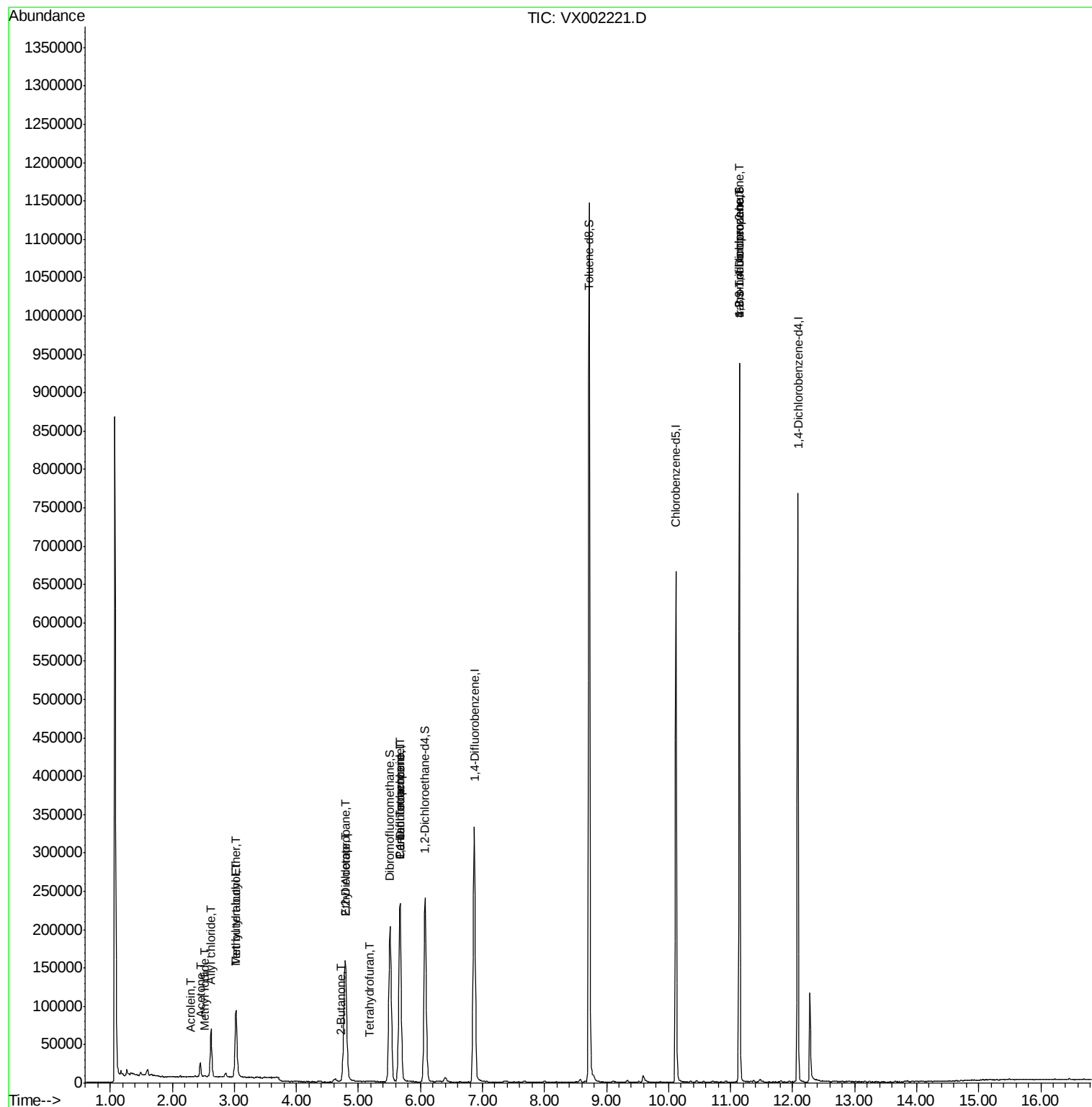
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	662	Below Cal		92
5) Bromomethane	1.62	94	73	Below Cal	#	64
10) Methyl Iodide	2.52	142	2059	0.54	ug/l #	91
11) Tert butyl alcohol	3.03	59	55163	69.32	ug/l #	74
13) Acrolein	2.30	56	395	1.15	ug/l #	46
14) Allyl chloride	2.63	41	6080	1.10	ug/l #	65
16) Acetone	2.45	43	20598	13.17	ug/l	94
18) Methyl Acetate	2.77	43	580	Below Cal	#	81
19) Methyl tert-butyl Ether	3.02	73	3224	0.32	ug/l #	86
20) Methylene Chloride	2.87	84	1988	Below Cal	#	75
21) trans-1,2-Dichloroethene	3.17	96	185	Below Cal	#	64
25) 2-Butanone	4.71	43	1187	0.41	ug/l #	68
26) 2,2-Dichloropropane	4.78	77	12163	2.24	ug/l #	53
28) Bromochloromethane	4.81	49	1477	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	565	0.30	ug/l #	51
36) 1,1-Dichloropropene	5.67	75	16700	3.63	ug/l #	51
37) Ethyl Acetate	4.79	43	10204	1.70	ug/l #	5
38) Carbon Tetrachloride	5.67	117	21427	3.99	ug/l #	14
41) Methacrylonitrile	5.06	41	84	Below Cal	#	25
74) N-amyl acetate	6.50	43	316	Below Cal	#	74
75) 1,1,2,2-Tetrachloroethane	11.33	83	91	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	121506	32.65	ug/l #	32
79) 2-Chlorotoluene	11.43	91	132	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	121506	78.48	ug/l #	10

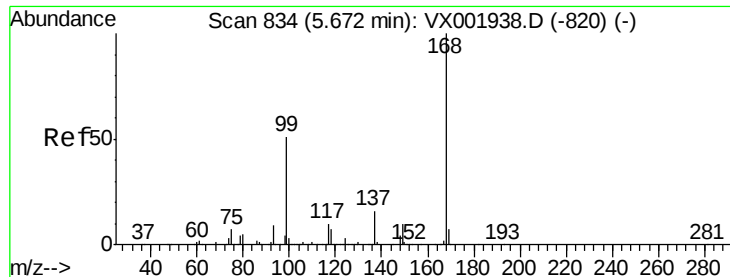
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Jun 02 03:20:49 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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

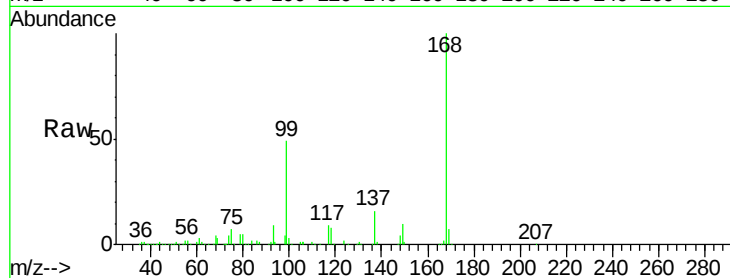
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 226796

Ion Ratio Lower Upper

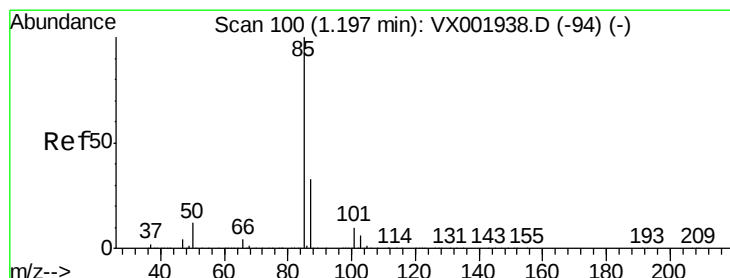
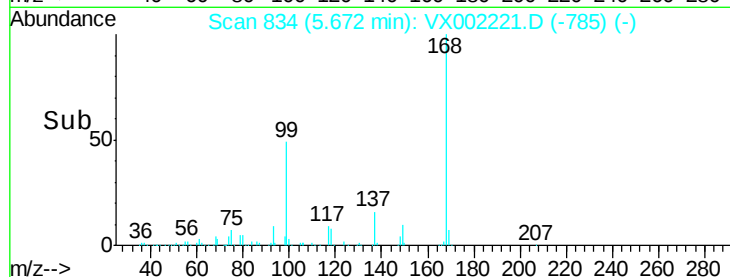
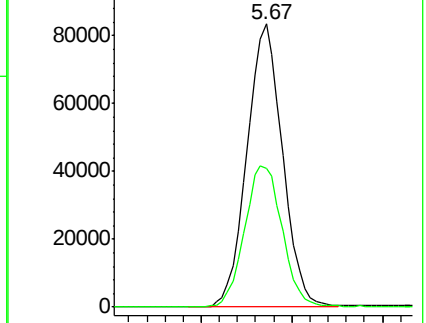
168 100

99 48.9 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002221.D

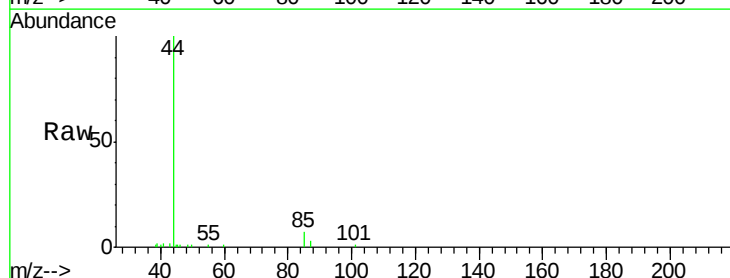
Acq: 01 Jun 2018 19:29

Tgt Ion: 85 Resp: 662

Ion Ratio Lower Upper

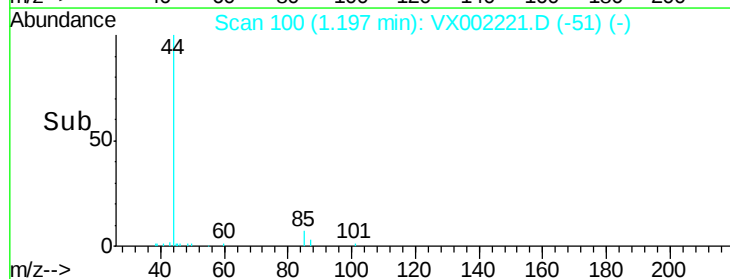
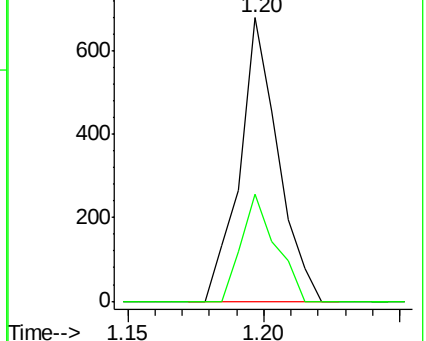
85 100

87 37.9 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 169

Delta R.T. -0.02 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

Instrument :

MSVOA_X

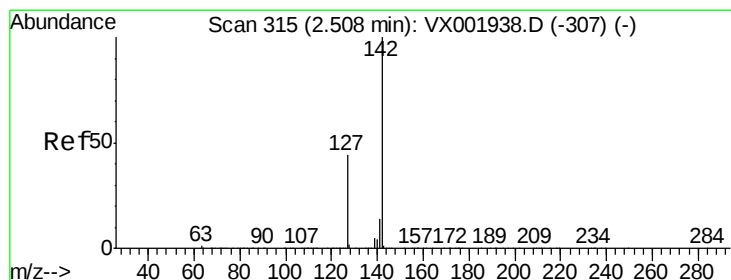
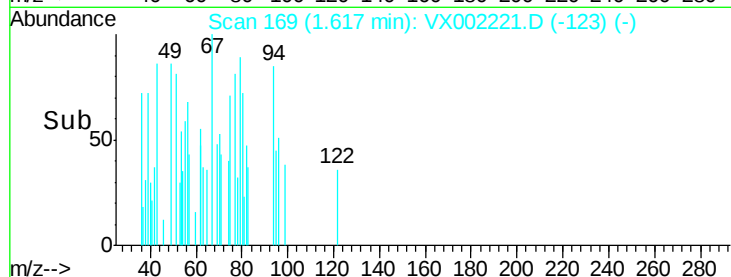
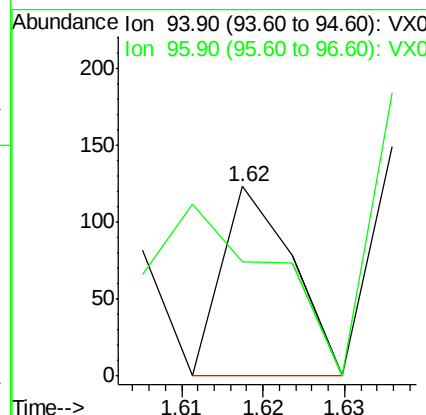
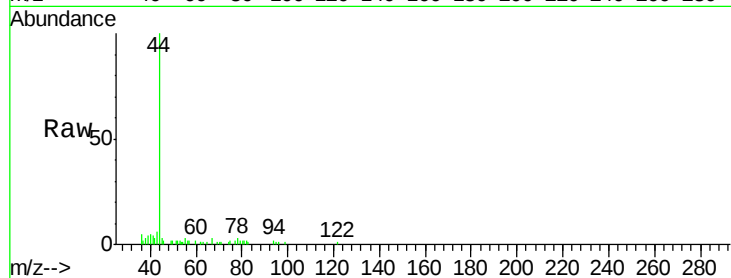
ClientSampled :

Tot Ion: 94 Resp: 73

Ion Ratio Lower Upper

94 100

96 60.2 75.9 113.9#



#10

Methyl Iodide

Concen: 0.54 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

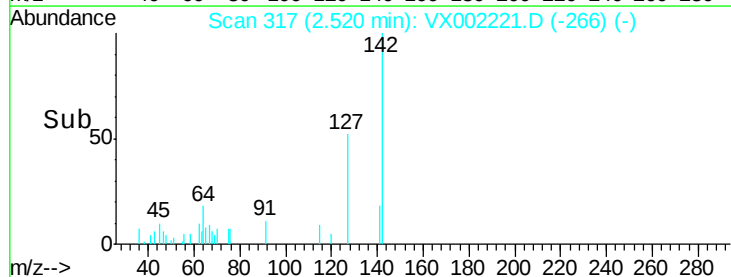
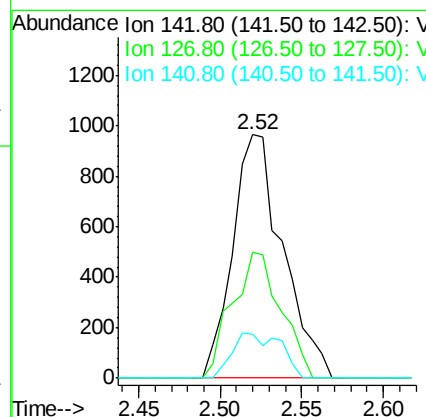
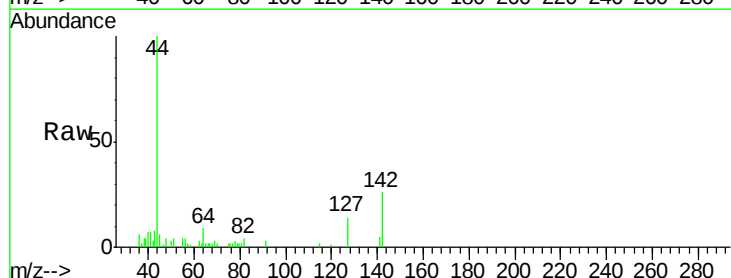
Tgt Ion: 142 Resp: 2059

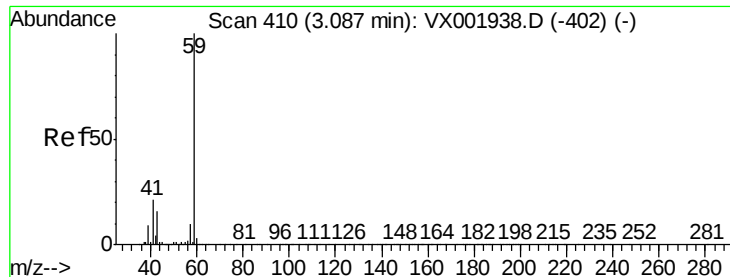
Ion Ratio Lower Upper

142 100

127 50.2 35.5 53.3

141 17.8 11.3 16.9#



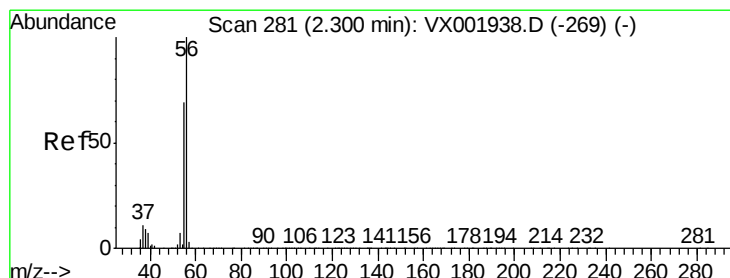
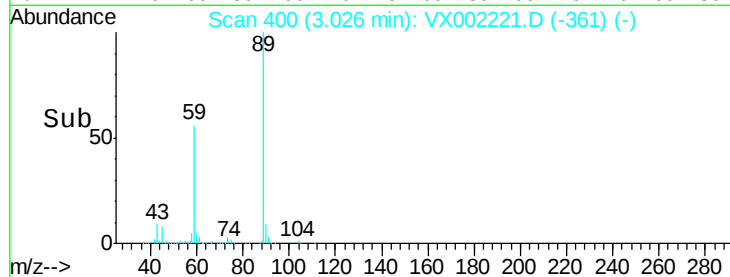
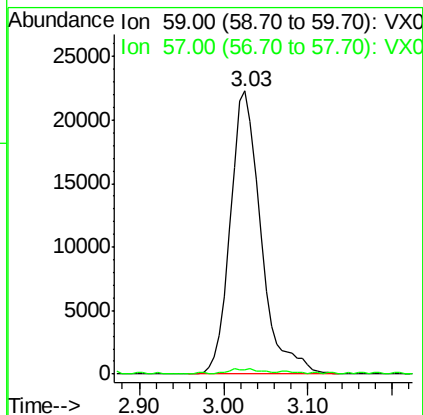
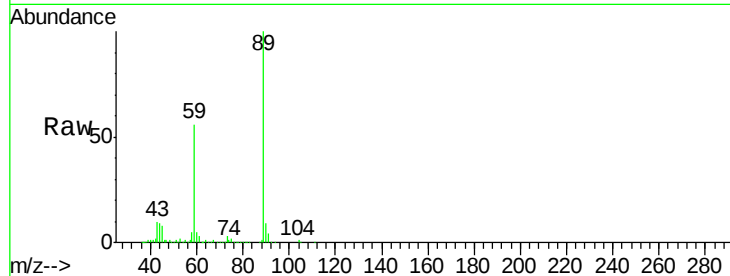


#11

Tert butyl alcohol
 Concen: 69.32 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.06 min
 Lab File: VX002221.D
 Acq: 01 Jun 2018 19:29

Instrument :
 MSVOA_X
 ClientSampleId :

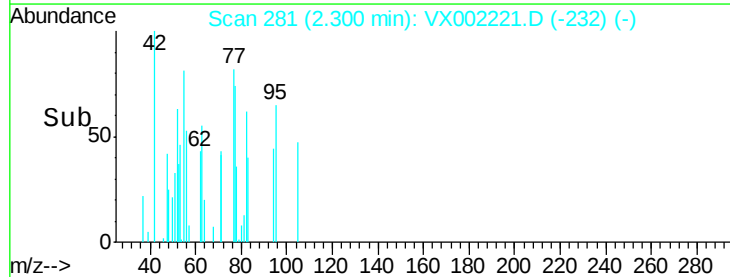
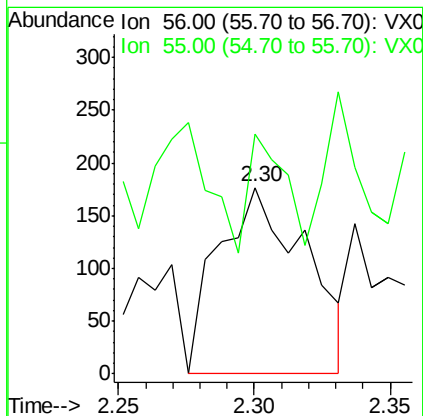
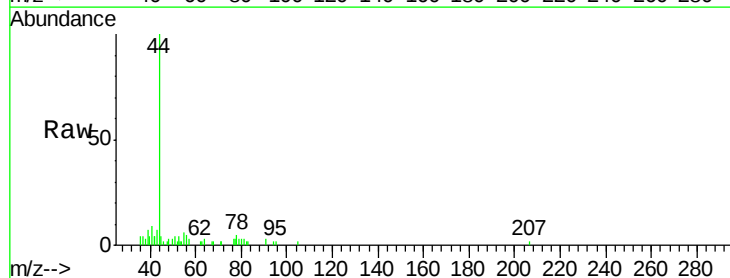
Tot Ion: 59 Resp: 55163
 Ion Ratio Lower Upper
 59 100
 57 1.4 8.9 13.3#

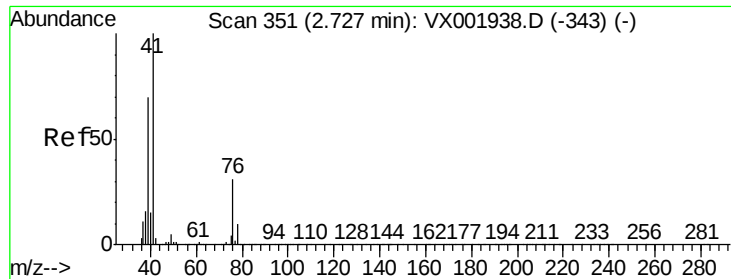


#13

Acrolein
 Concen: 1.15 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. -0.00 min
 Lab File: VX002221.D
 Acq: 01 Jun 2018 19:29

Tgt Ion: 56 Resp: 395
 Ion Ratio Lower Upper
 56 100
 55 26.3 56.8 85.2#





#14

Allvl chloride

Concen: 1.10 ug/l

RT: 2.63 min Scan# 335

Delta R.T. -0.10 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

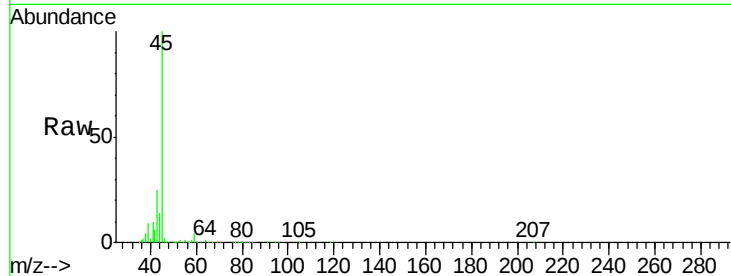
Tot Ion: 41 Resp: 6080

Ion Ratio Lower Upper

41 100

39 89.3 54.3 81.5#

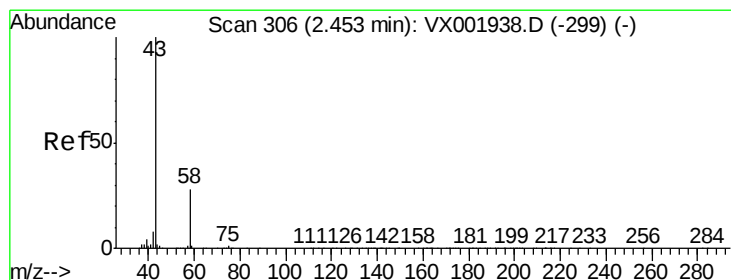
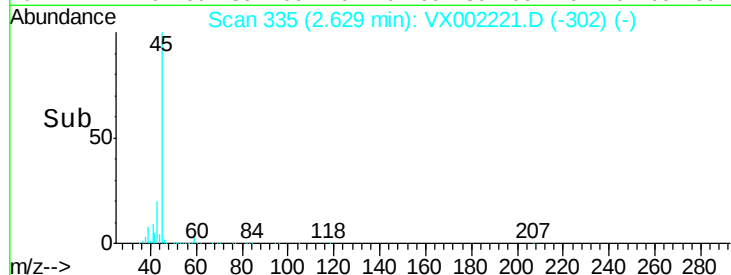
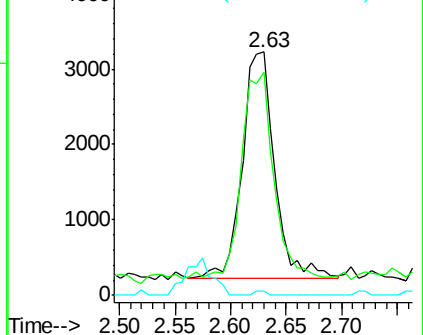
76 0.6 24.2 36.4#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



#16

Acetone

Concen: 13.17 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002221.D

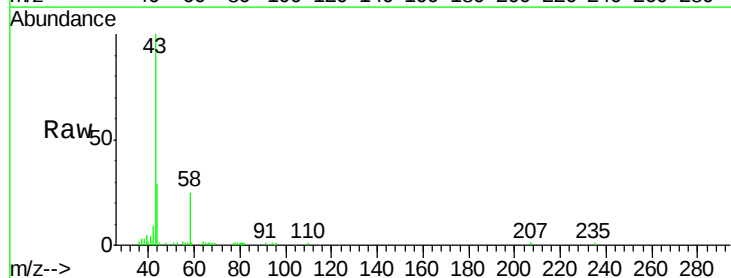
Acq: 01 Jun 2018 19:29

Tgt Ion: 43 Resp: 20598

Ion Ratio Lower Upper

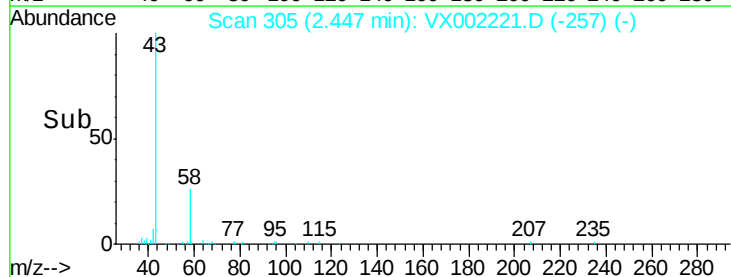
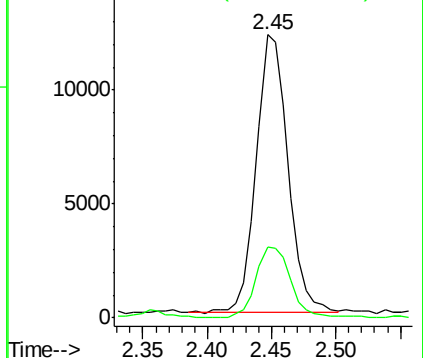
43 100

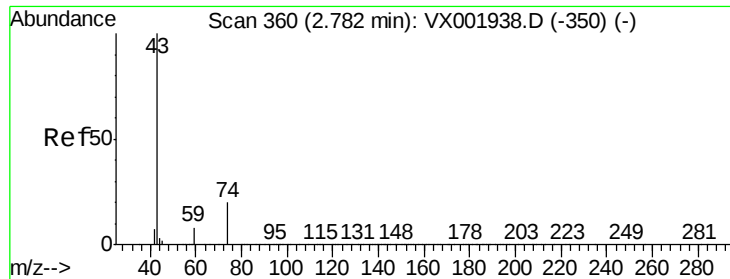
58 25.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

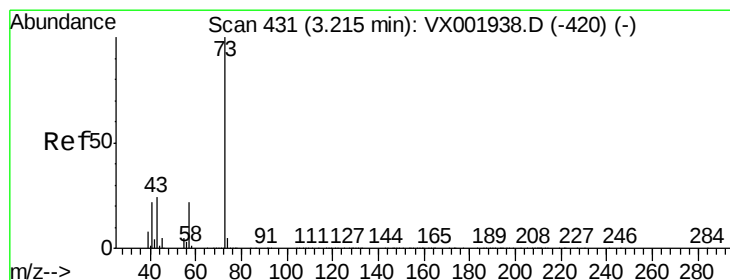
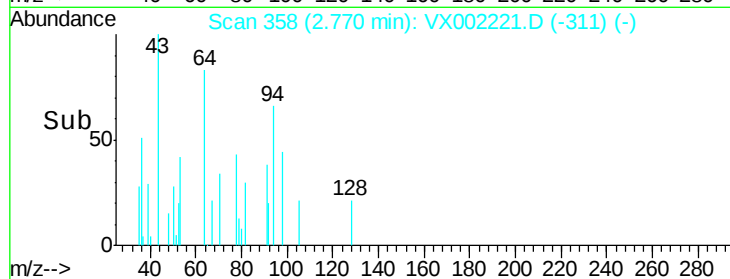
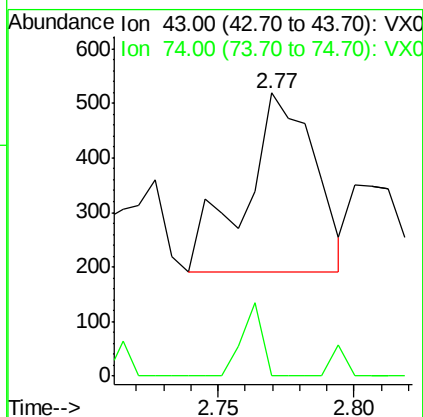
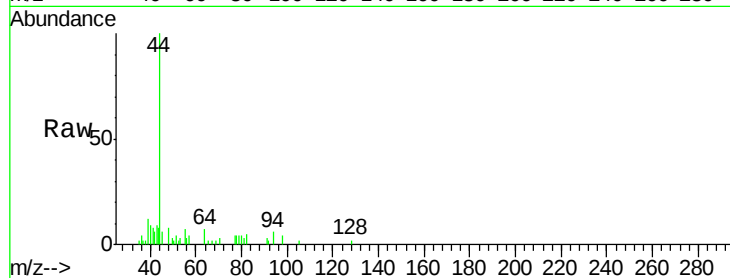




#18
Methyl Acetate
Concen: Below Cal
RT: 2.77 min Scan# 358
Delta R.T. -0.01 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

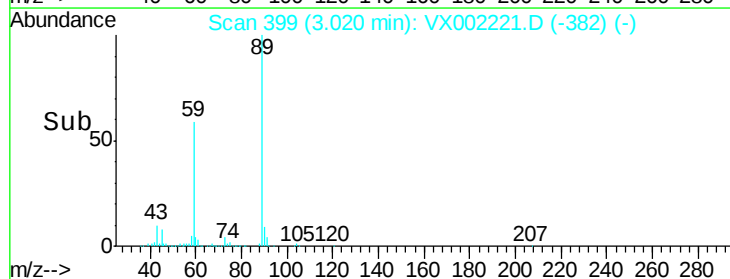
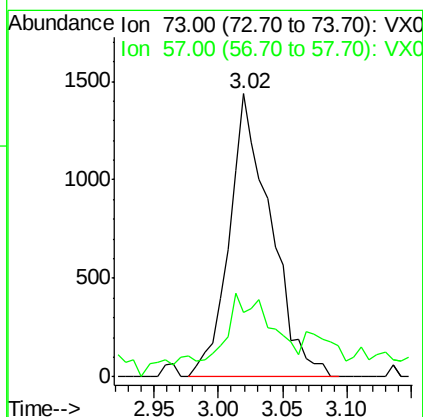
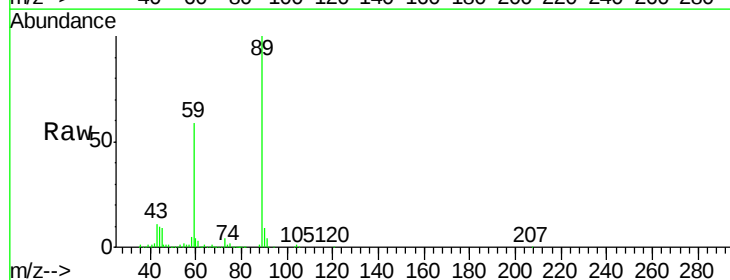
Instrument :
MSVOA_X
ClientSampled :

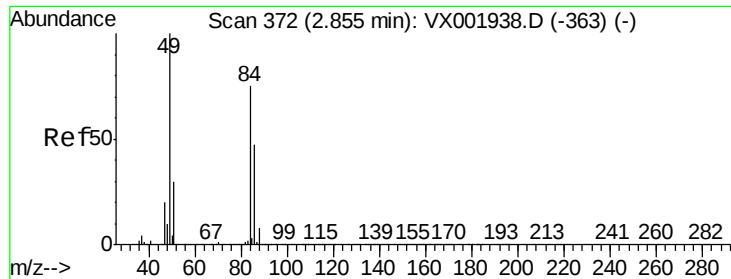
Tot Ion: 43 Resp: 580
Ion Ratio Lower Upper
43 100
74 11.9 16.8 25.2#



#19
Methyl tert-butyl Ether
Concen: 0.32 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.20 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

Tgt Ion: 73 Resp: 3224
Ion Ratio Lower Upper
73 100
57 15.2 17.4 26.0#

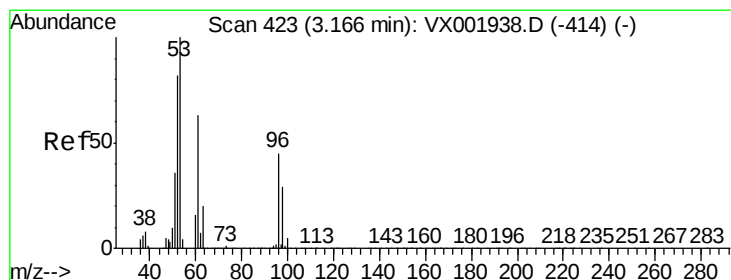
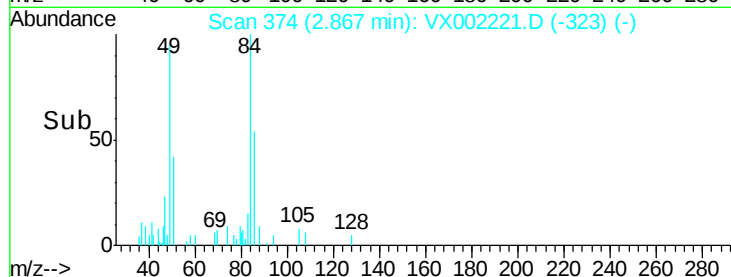
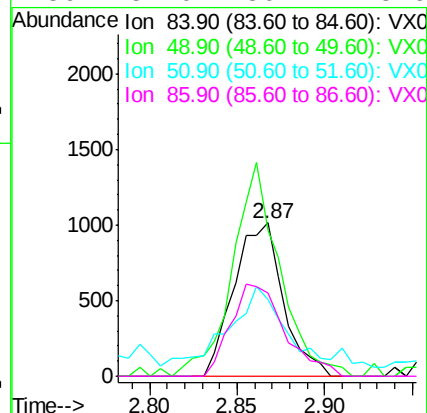
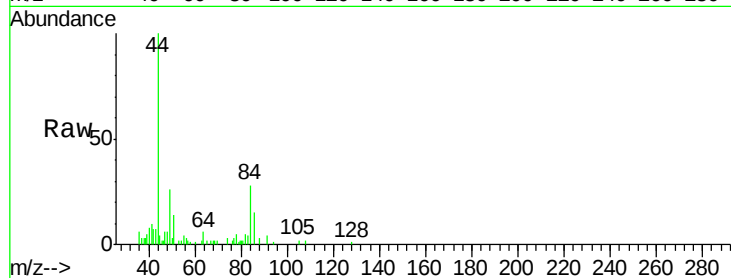




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

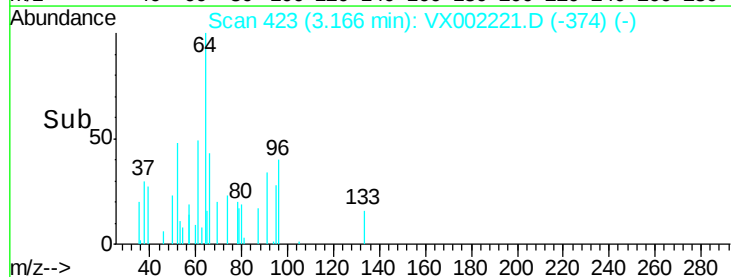
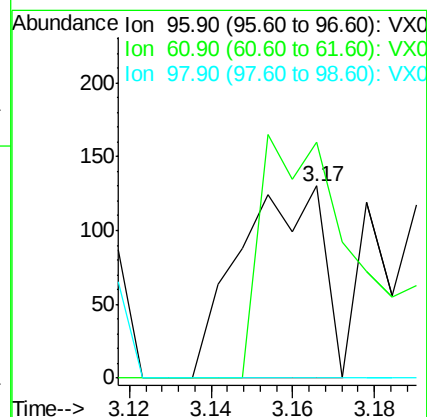
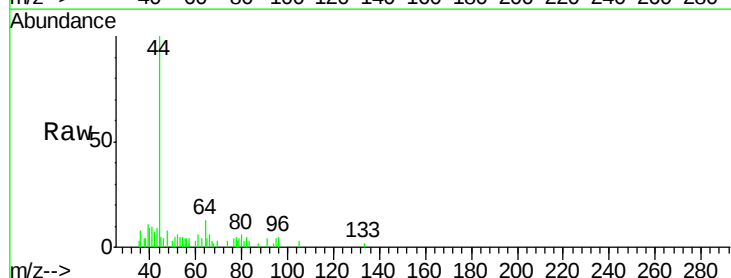
Instrument :
MSVOA_X
ClientSampleId :

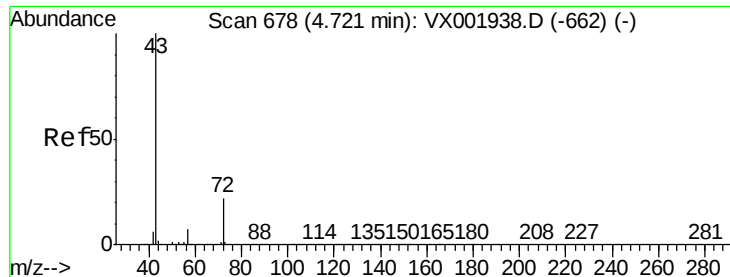
Tot Ion: 84 Resp: 1988
Ion Ratio Lower Upper
84 100
49 89.4 107.2 160.8#
51 37.7 32.4 48.6
86 54.0 50.4 75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

Tgt Ion: 96 Resp: 185
Ion Ratio Lower Upper
96 100
61 123.1 113.3 169.9
98 0.0 51.7 77.5#





#25

2-Butanone

Concen: 0.41 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

Instrument :

MSVOA_X

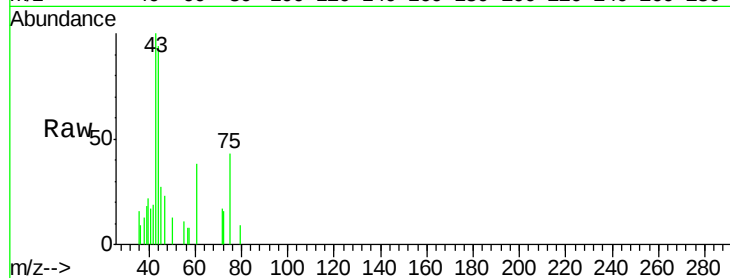
ClientSampled :

Tot Ion: 43 Resp: 1187

Ion Ratio Lower Upper

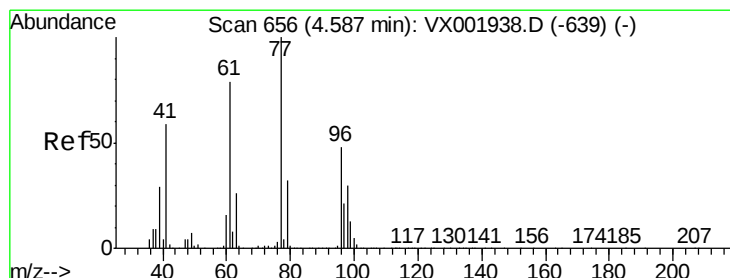
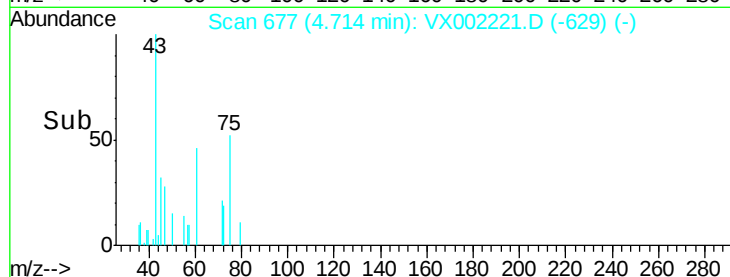
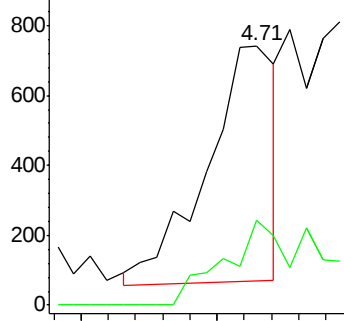
43 100

72 37.7 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 2.24 ug/l

RT: 4.78 min Scan# 688

Delta R.T. 0.20 min

Lab File: VX002221.D

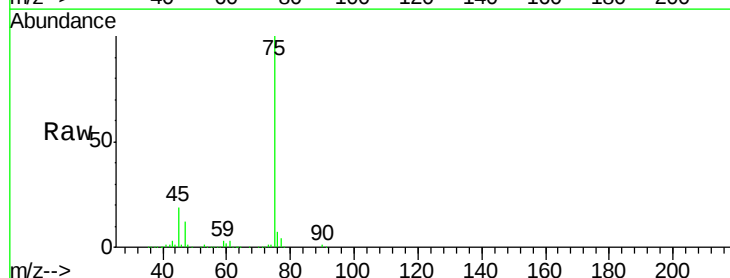
Acq: 01 Jun 2018 19:29

Tgt Ion: 77 Resp: 12163

Ion Ratio Lower Upper

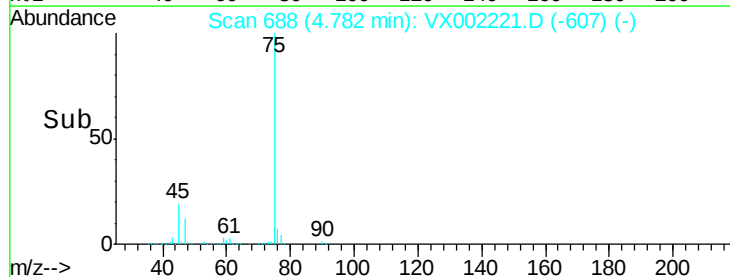
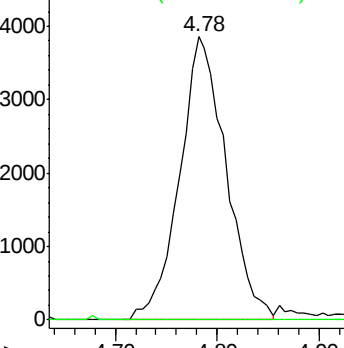
77 100

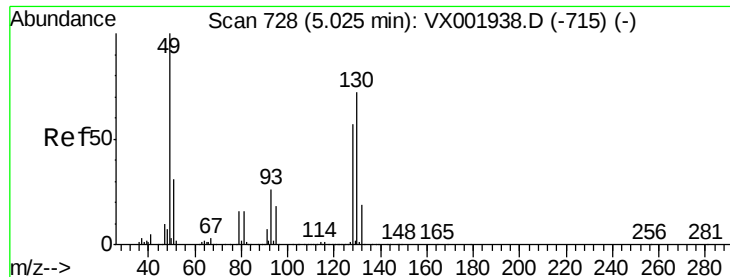
97 0.0 11.2 33.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 4.81 min Scan# 692

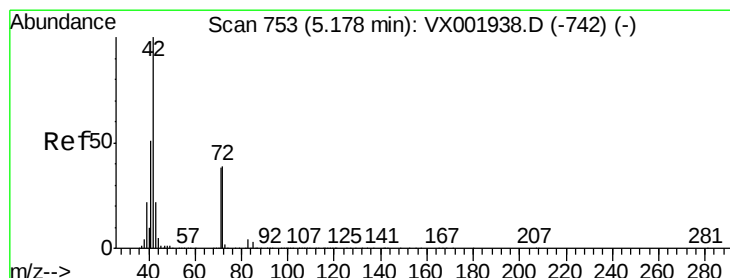
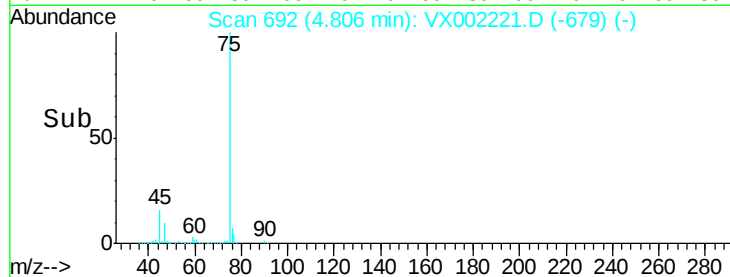
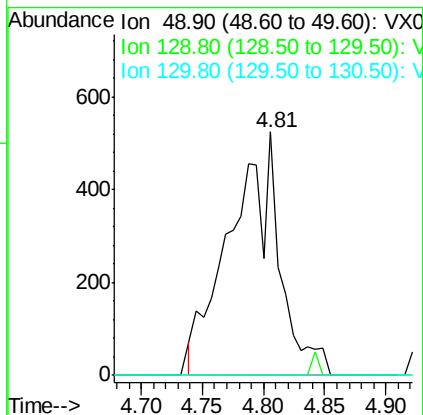
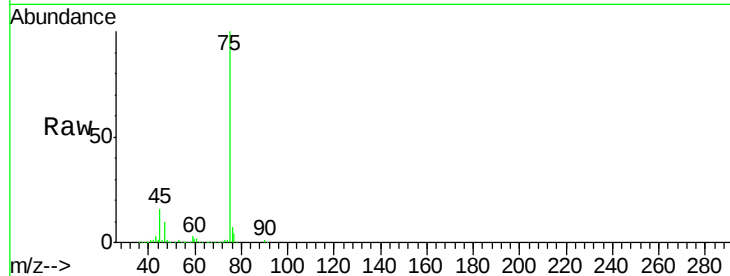
Delta R.T. -0.22 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	49	Resp:	1477
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#



#29

Tetrahydrofuran

Concen: 0.30 ug/l

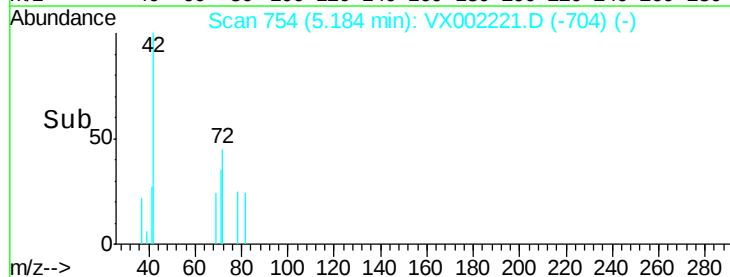
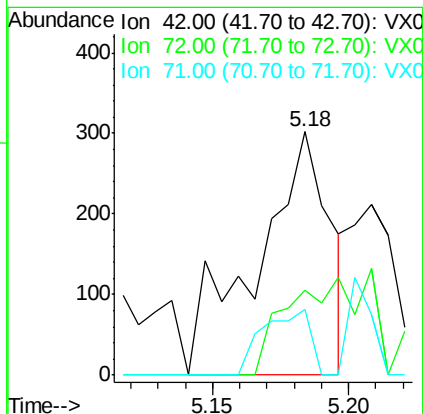
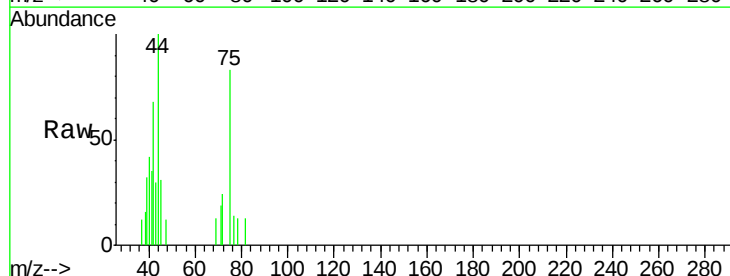
RT: 5.18 min Scan# 754

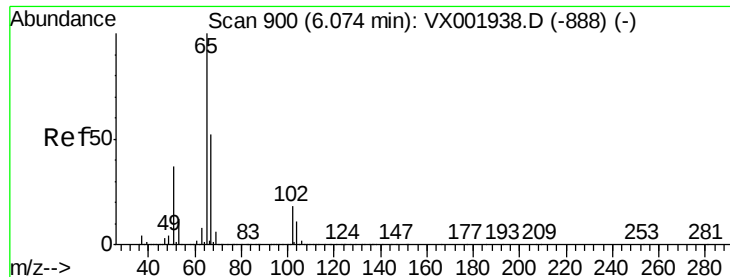
Delta R.T. 0.01 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

Tgt Ion:	42	Resp:	565
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.0#
71	17.5	29.5	44.3#

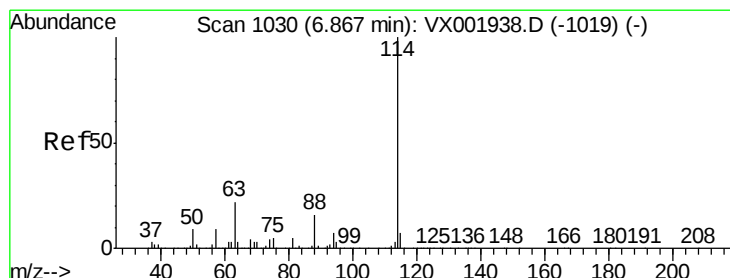
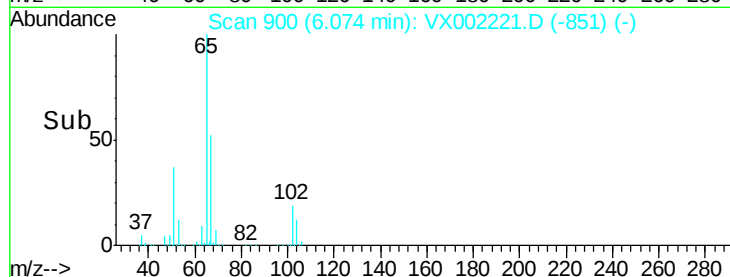
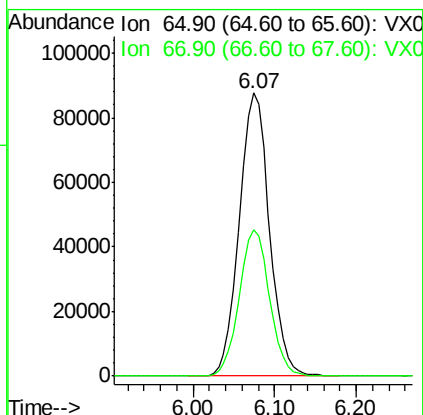
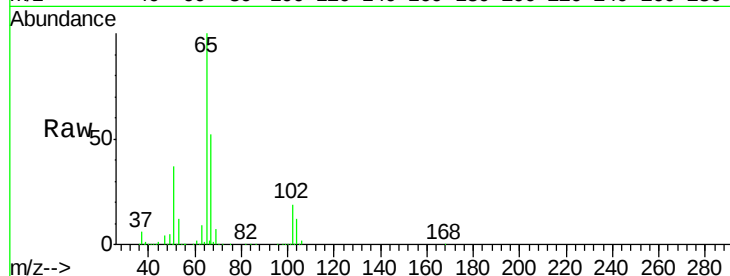




#33
 1,2-Dichloroethane-d4
 Concen: 55.51 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002221.D
 Acq: 01 Jun 2018 19:29

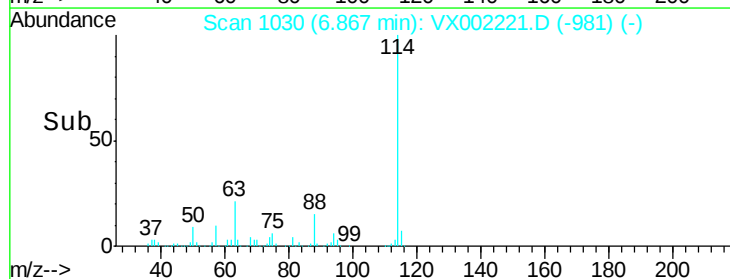
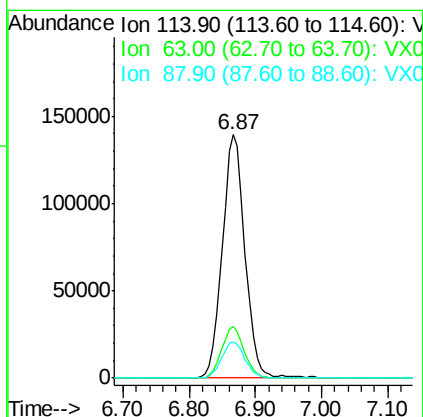
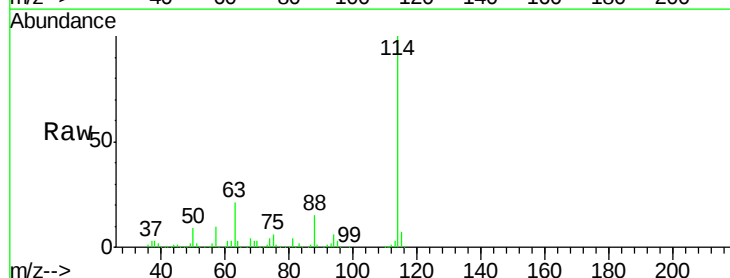
Instrument :
 MSVOA_X
 ClientSampleId :

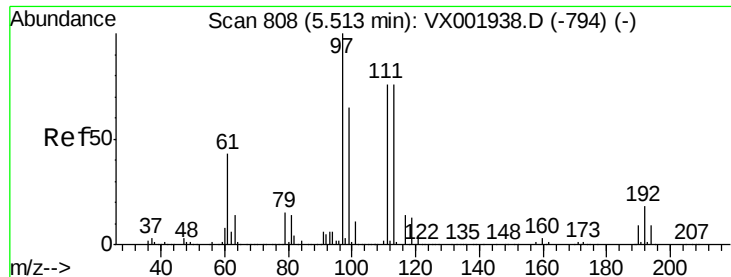
Tot Ion: 65 Resp: 225048
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002221.D
 Acq: 01 Jun 2018 19:29

Tgt Ion: 114 Resp: 330735
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.2
 88 14.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 50.04 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

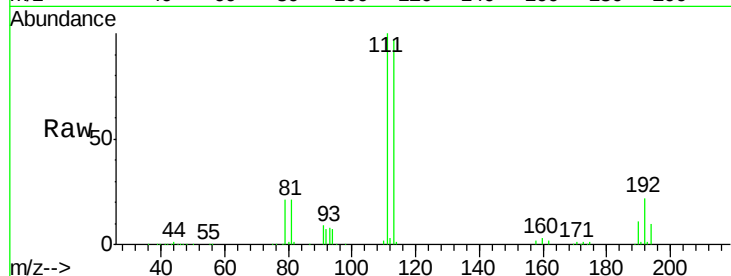
Tot Ion:113 Resp: 165504

Ion Ratio Lower Upper

113 100

111 102.8 82.0 123.0

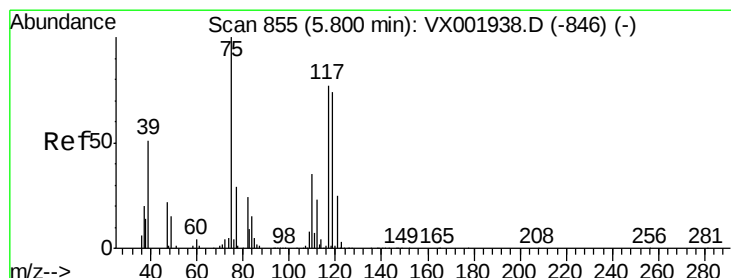
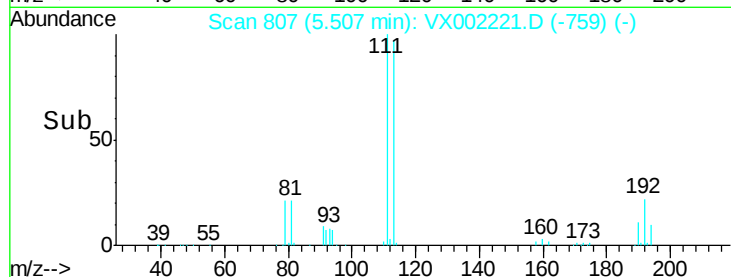
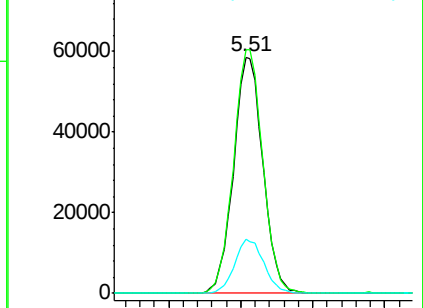
192 22.8 18.9 28.3



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: 3.63 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

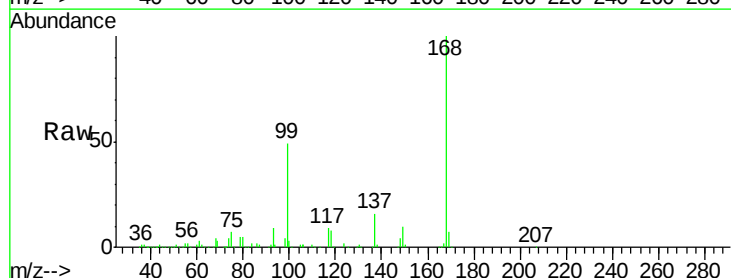
Tgt Ion: 75 Resp: 16700

Ion Ratio Lower Upper

75 100

110 9.6 17.4 52.2#

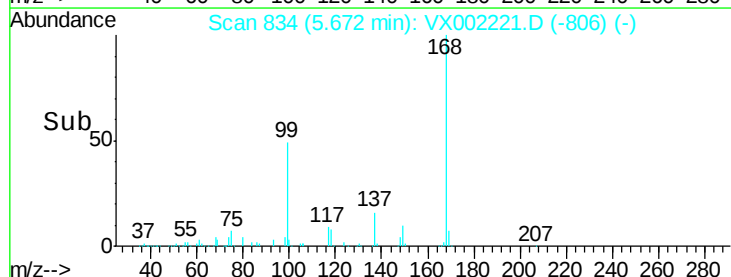
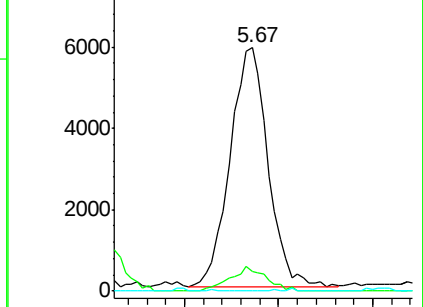
77 0.0 24.4 36.6#

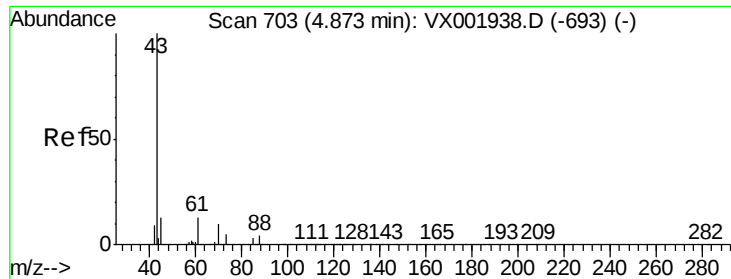


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

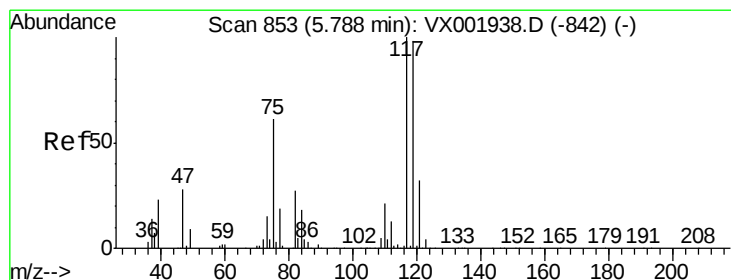
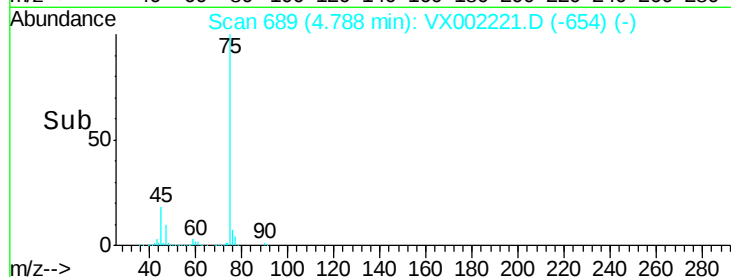
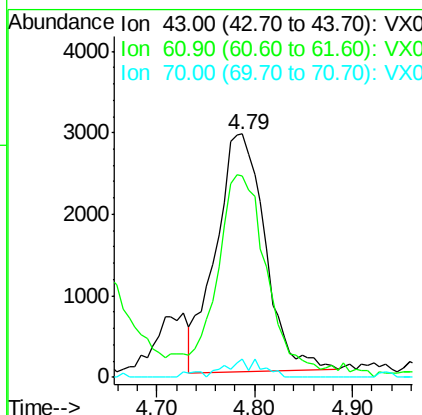
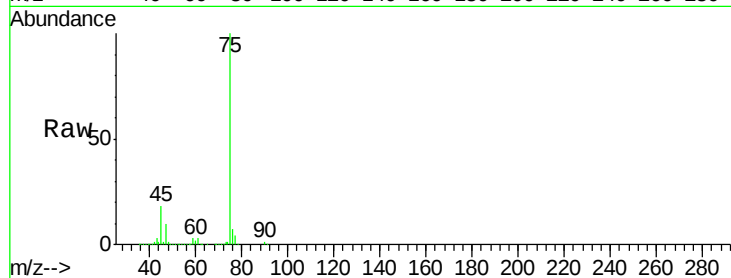




#37
Ethyl Acetate
Concen: 1.70 ug/l
RT: 4.79 min Scan# 689
Delta R.T. -0.09 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

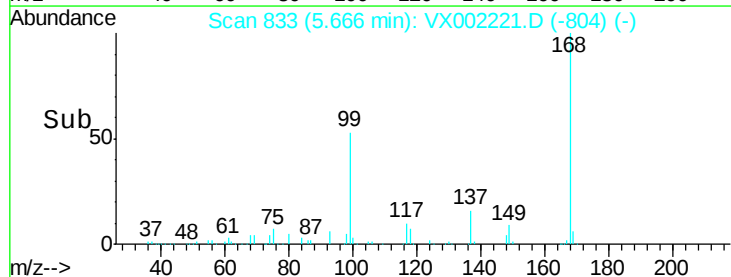
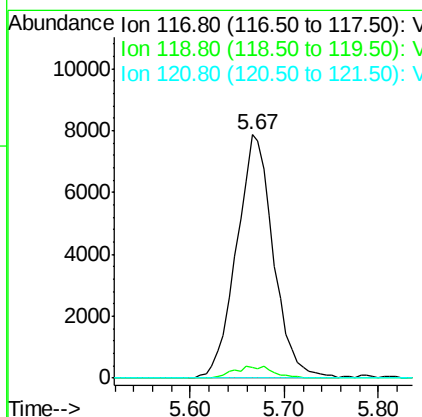
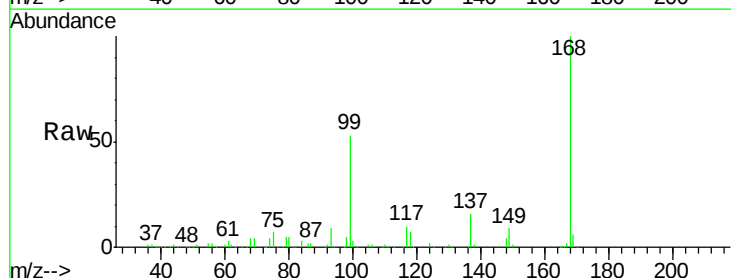
Instrument :
MSVOA_X
ClientSampleId :

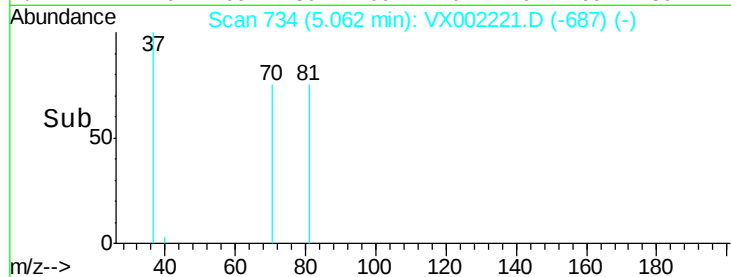
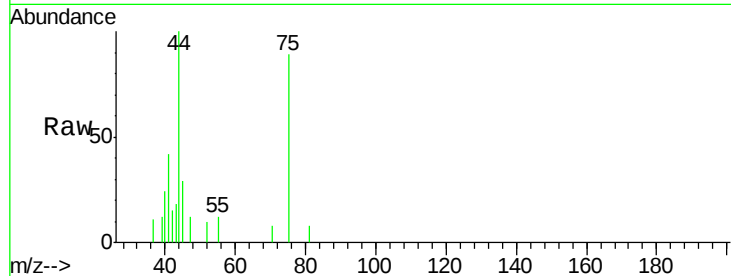
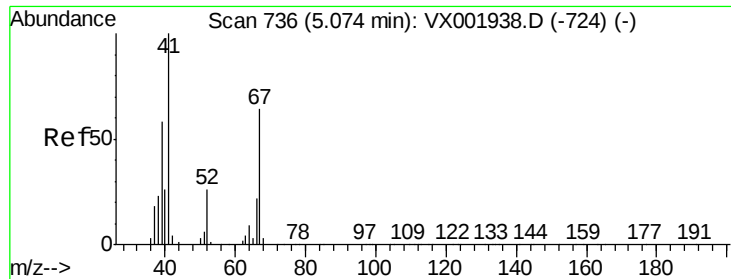
Tot Ion: 43 Resp: 10204
Ion Ratio Lower Upper
43 100
61 75.6 10.2 15.2#
70 5.3 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 3.99 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

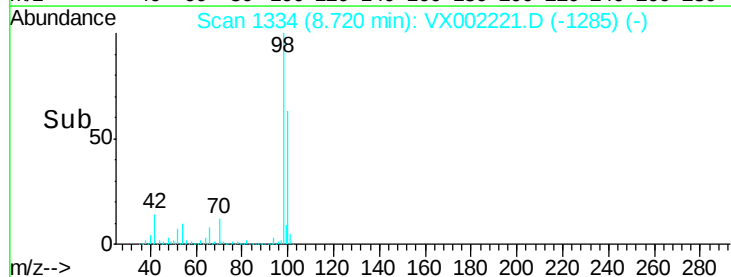
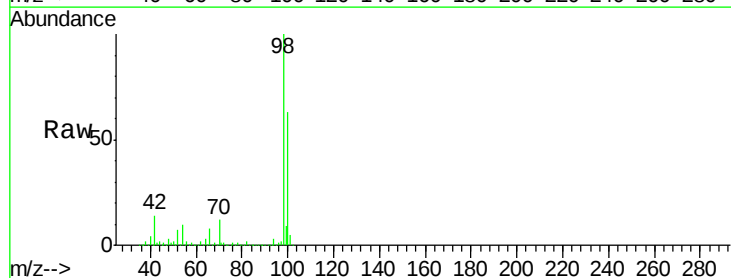
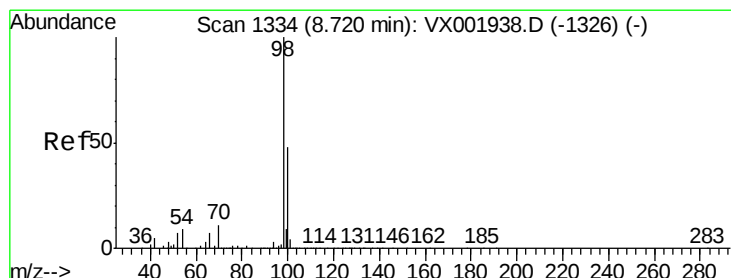
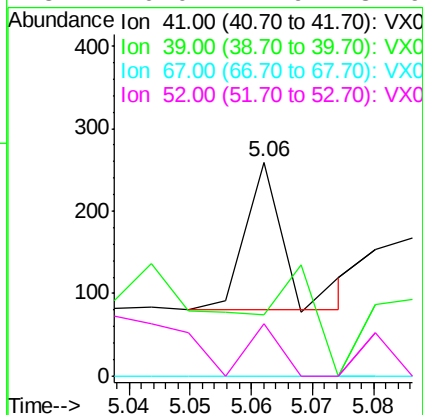
Tgt Ion: 117 Resp: 21427
Ion Ratio Lower Upper
117 100
119 4.2 78.5 117.7#
121 0.0 25.5 38.3#





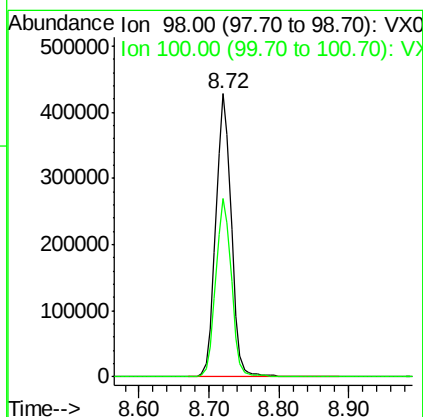
#41
Methacrylonitrile
Concen: Below Cal
RT: 5.06 min Scan# 734
Delta R.T. -0.01 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

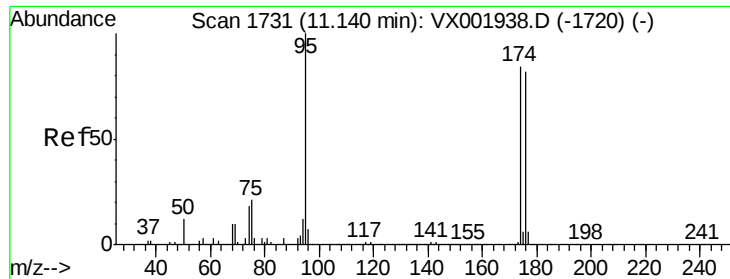
Tot Ion:	41	Resp:	84
Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.0	69.0#
67	0.0	50.6	75.8#
52	0.0	21.9	32.9#



#50
Toluene-d8
Concen: 55.22 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

Tgt Ion:	98	Resp:	661164
Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.5	77.3





#62

4-Bromofluorobenzene

Concen: 47.50 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

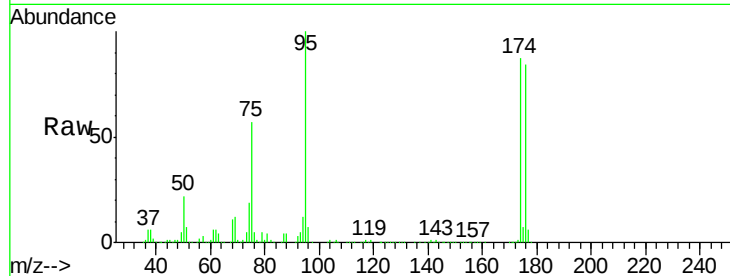
Tot Ion: 95 Resp: 222518

Ion Ratio Lower Upper

95 100

174 92.7 0.0 178.8

176 89.4 0.0 175.6

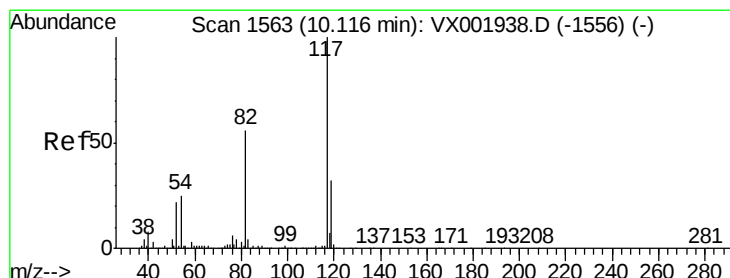
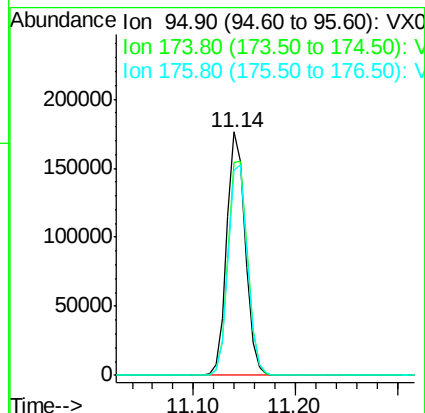
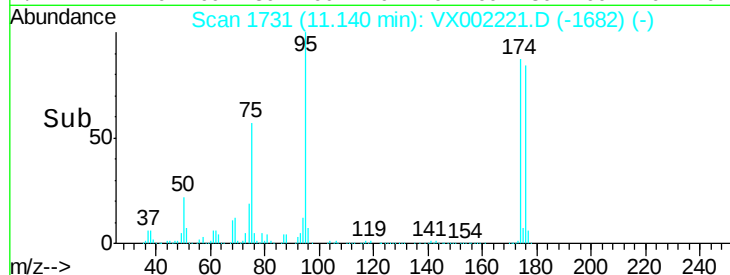


Abundance Ion 94.90 (94.60 to 95.60): VX001938.D (-1720) (-)

Ion 173.80 (173.50 to 174.50): VX001938.D (-1720) (-)

Ion 175.80 (175.50 to 176.50): VX001938.D (-1720) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

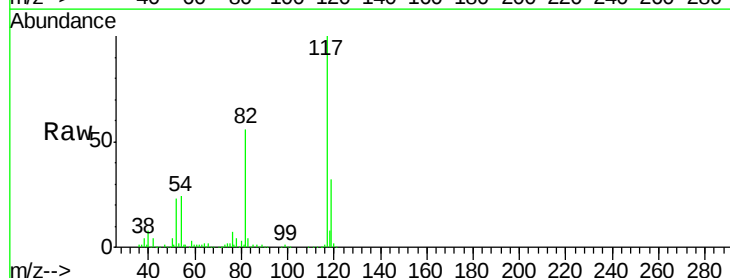
Tgt Ion: 117 Resp: 292043

Ion Ratio Lower Upper

117 100

82 56.1 44.8 67.2

119 32.0 25.5 38.3

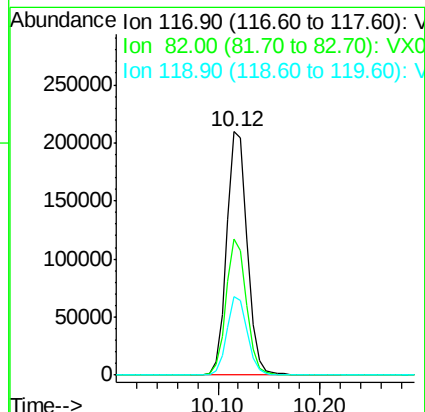
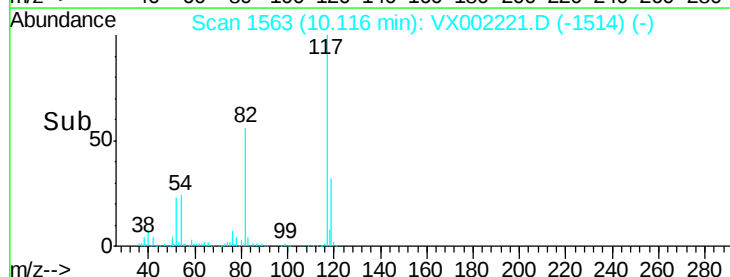


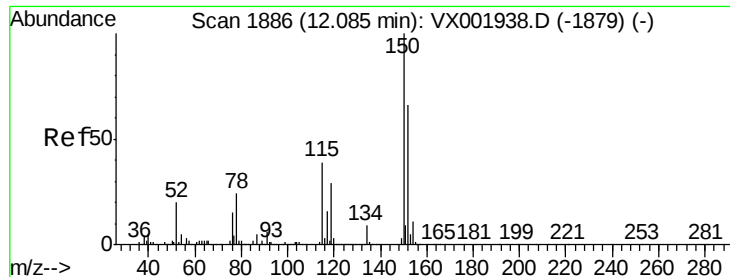
Abundance Ion 116.90 (116.60 to 117.60): VX001938.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX001938.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX001938.D (-1556) (-)

Time-->



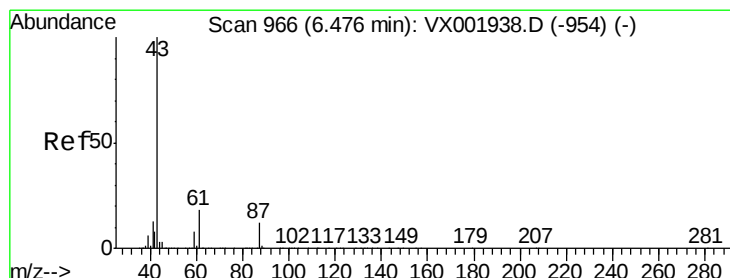
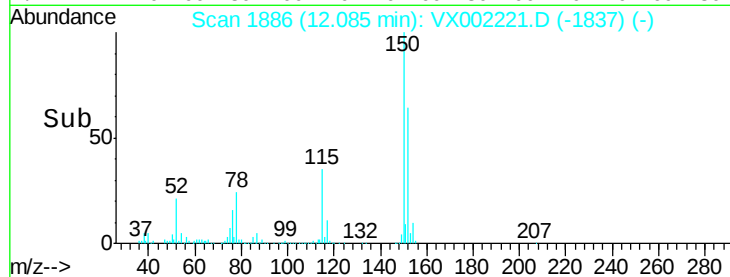
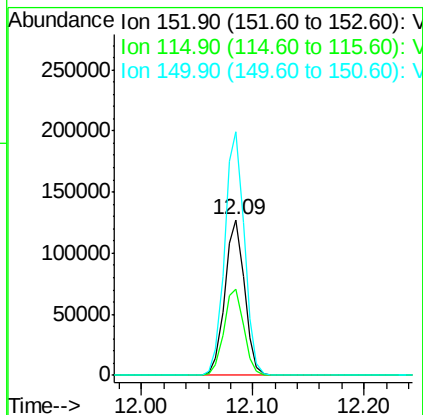
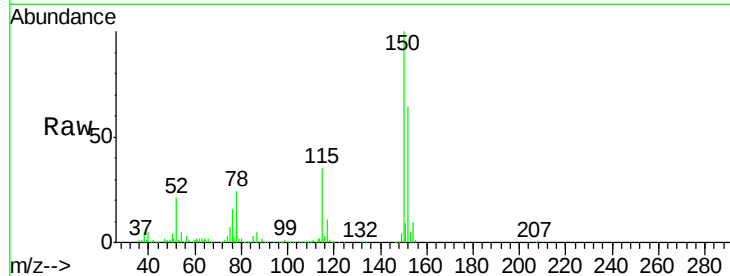


#72

1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

Instrument :
MSVOA_X
ClientSampleId :

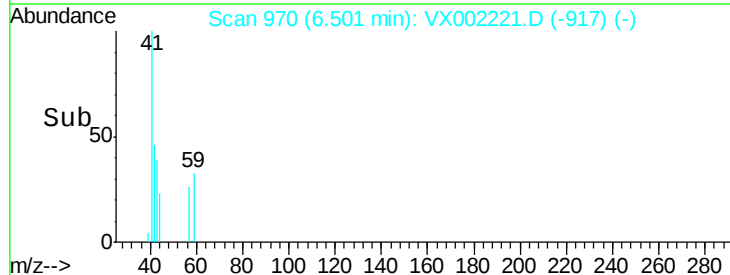
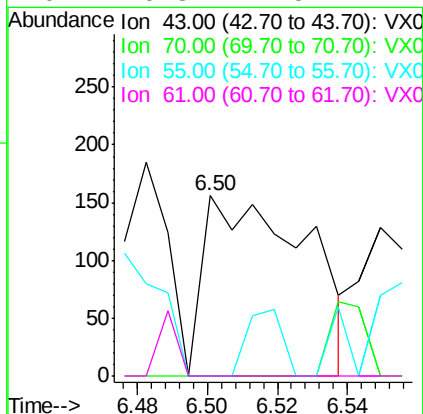
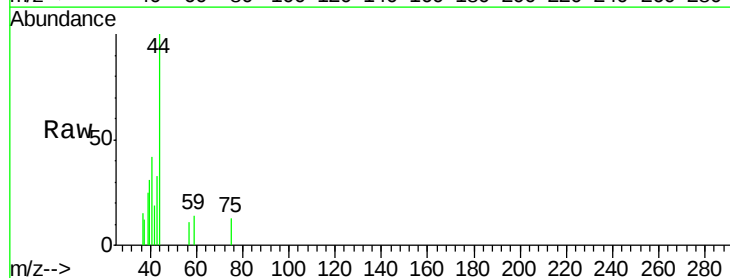
Tot Ion	Ratio	Lower	Upper
152	100		
115	56.5	42.3	126.8
150	157.1	0.0	351.0

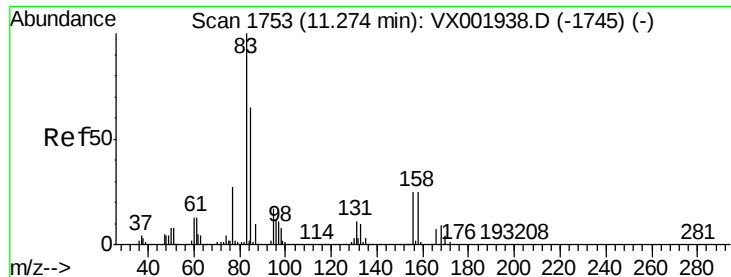


#74

N-ethyl acetate
Concen: Below Cal
RT: 6.50 min Scan# 970
Delta R.T. 0.02 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.1	0.1#
55	0.0	0.1	0.1#
61	6.3	14.5	21.7#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.33 min Scan# 1762

Delta R.T. 0.06 min

Lab File: VX002221.D

Acq: 01 Jun 2018 19:29

Instrument :

MSVOA_X

ClientSampleId :

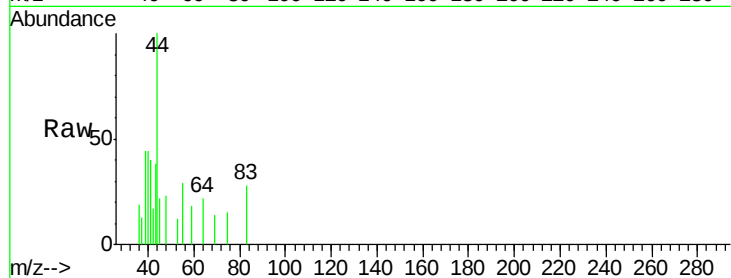
Tot Ion: 83 Resp: 91

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

150

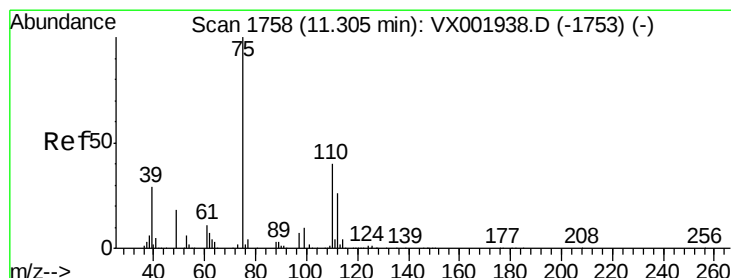
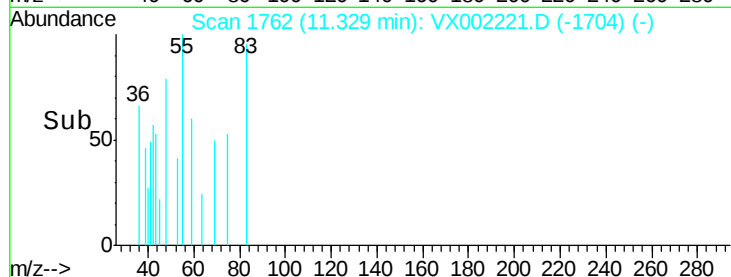
100

50

0

11.32 11.34

Time-->



#76

1,2,3-Trichloropropane

Concen: 32.65 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002221.D

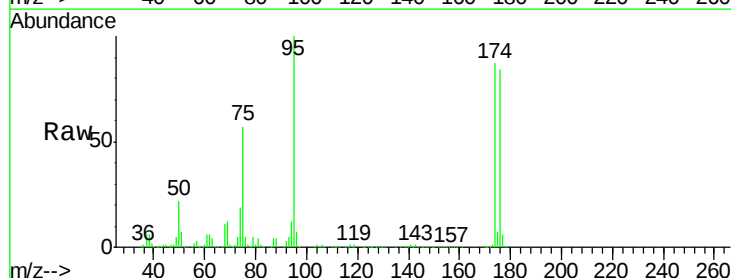
Acq: 01 Jun 2018 19:29

Tgt Ion: 75 Resp: 121506

Ion Ratio Lower Upper

75 100

77 1.0 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

120000

100000

80000

60000

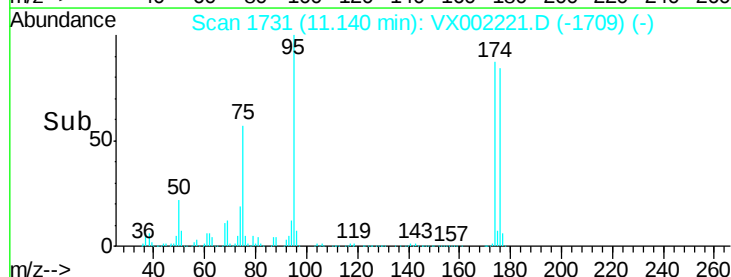
40000

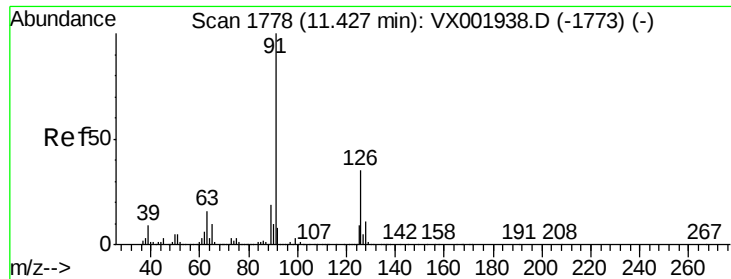
20000

0

11.10 11.20

Time-->

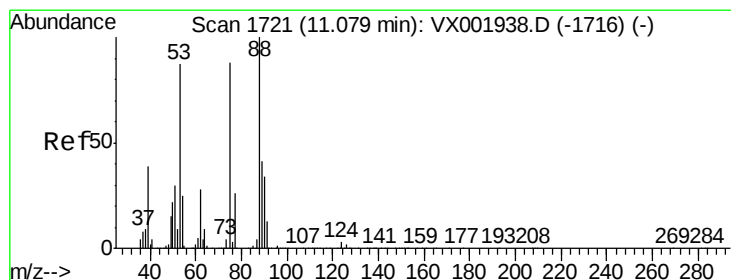
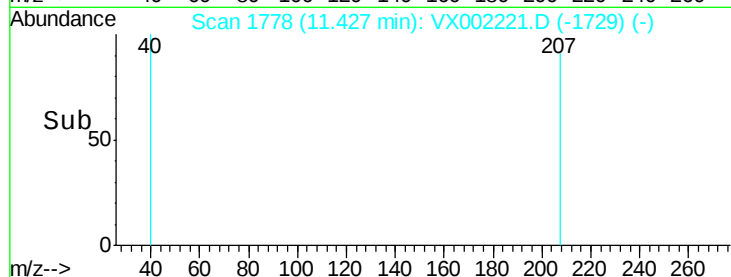
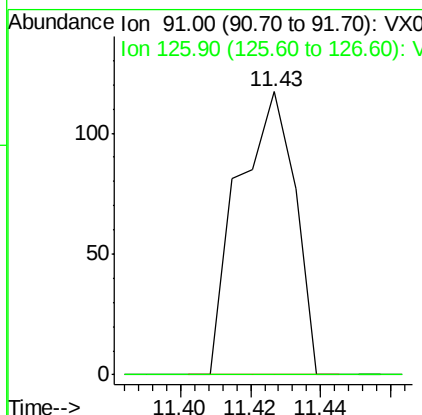
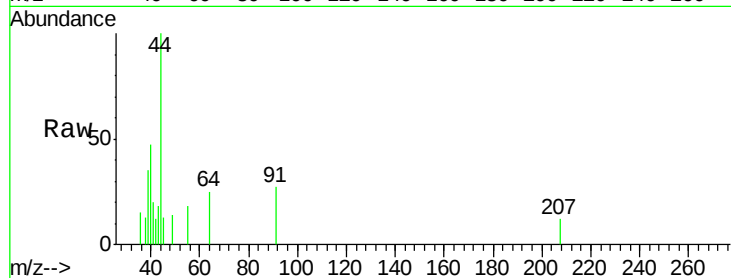




#79
2-Chlorotoluene
Concen: Below Cal
RT: 11.43 min Scan# 1778
Delta R.T. 0.00 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 91 Resp: 132
Ion Ratio Lower Upper
91 100
126 0.0 17.4 52.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.48 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002221.D
Acq: 01 Jun 2018 19:29

Tgt Ion: 75 Resp: 121506
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 39.4 59.2#

