

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX060118\
 Data File : VX002220.D
 Acq On : 01 Jun 2018 19:03
 Operator : JC/MD
 Sample : J3118-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 02 03:20:24 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	246448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	354475	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	321993	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175149	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	230700	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
35) Dibromofluoromethane	5.51	113	165200	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
50) Toluene-d8	8.72	98	626892	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
62) 4-Bromofluorobenzene	11.14	95	219485	43.71	ug/l	0.00
Spiked Amount			Recovery	=	87.42%	

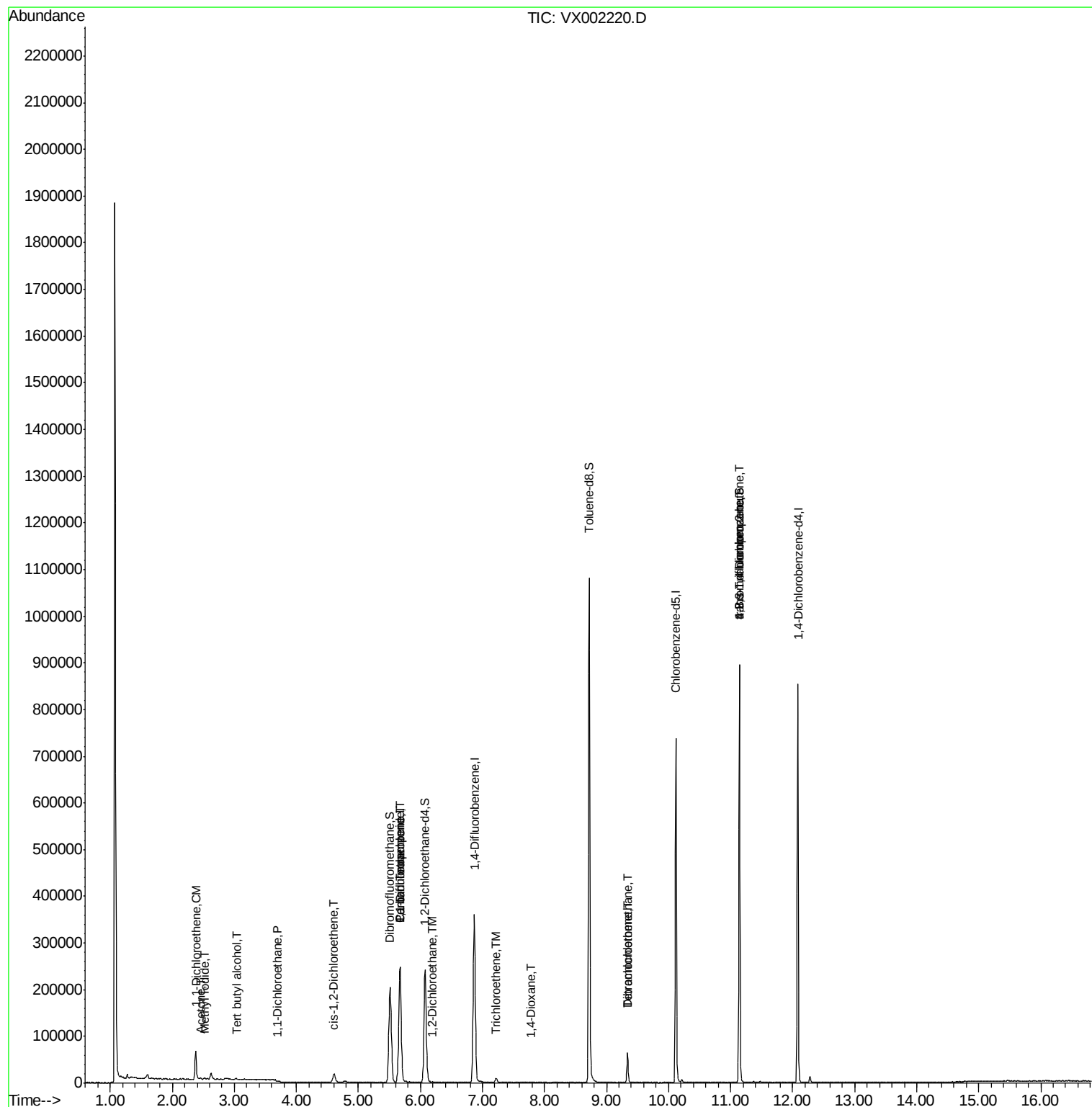
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	162	Below Cal	#	41
5) Bromomethane	1.65	94	1244	Below Cal	#	88
10) Methyl Iodide	2.52	142	2506	0.60	ug/l	96
11) Tert butyl alcohol	3.03	59	1515	1.75	ug/l	95
12) 1,1-Dichloroethene	2.38	96	19893	6.93	ug/l	88
16) Acetone	2.45	43	1988	1.17	ug/l	93
18) Methyl Acetate	2.78	43	382	Below Cal	#	55
20) Methylene Chloride	2.86	84	772	Below Cal	#	81
21) trans-1,2-Dichloroethene	3.17	96	473	Below Cal	#	54
24) 1,1-Dichloroethane	3.70	63	1526	0.26	ug/l	83
27) cis-1,2-Dichloroethene	4.61	96	9135	2.44	ug/l	72
28) Bromochloromethane	4.91	49	19	Below Cal	#	14
36) 1,1-Dichloropropene	5.67	75	17538	3.56	ug/l	51
38) Carbon Tetrachloride	5.67	117	22728	3.95	ug/l	15
41) Methacrylonitrile	5.07	41	60	Below Cal	#	1
42) 1,2-Dichloroethane	6.20	62	1177	0.20	ug/l	93
44) Trichloroethene	7.21	130	3325	0.79	ug/l	98
49) 1,4-Dioxane	7.77	88	294	3.06	ug/l	64
60) Dibromochloromethane	9.34	129	11477	2.52	ug/l	11
64) Tetrachloroethene	9.34	164	12509	2.71	ug/l	96
74) N-amyl acetate	6.48	43	199	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.35	83	26	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	116797	27.76	ug/l	33
79) 2-Chlorotoluene	11.52	91	332	Below Cal	#	76
81) trans-1,4-Dichloro-2-buten	11.14	75	116797	66.73	ug/l	10

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

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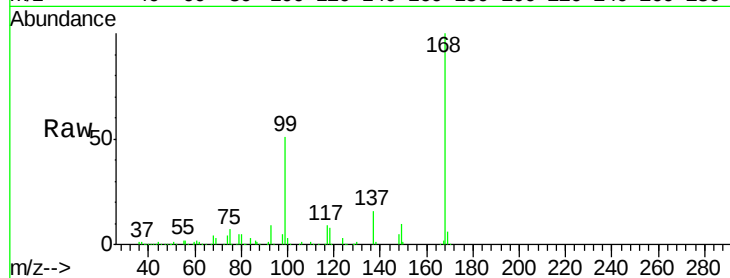


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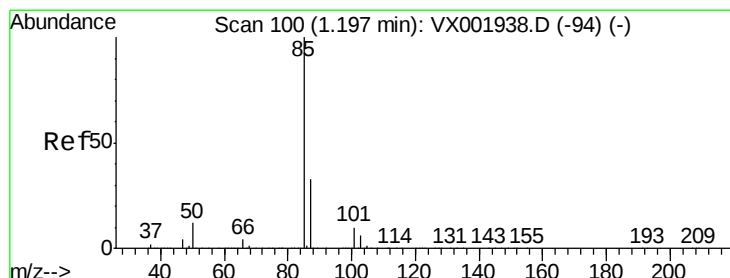
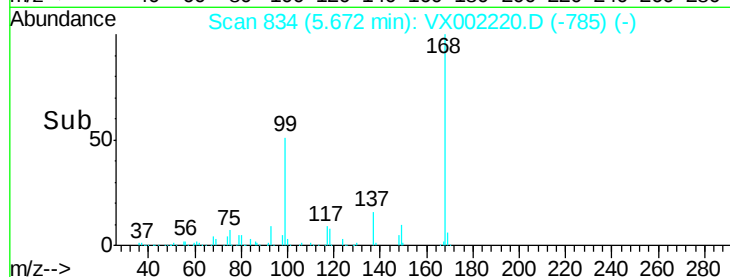
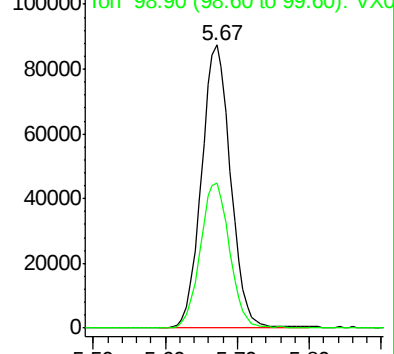
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.00 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 246448
Ion Ratio Lower Upper
168 100
99 51.1 41.0 61.4



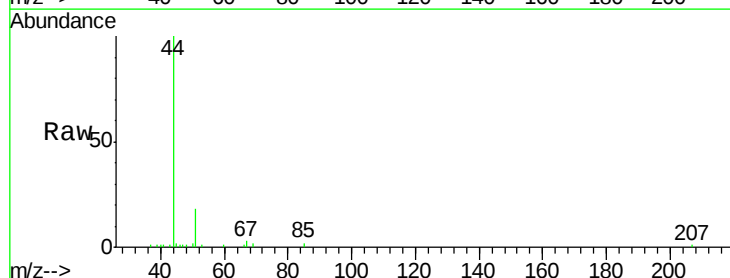
Abundance Ion 167.90 (167.60 to 168.60): V



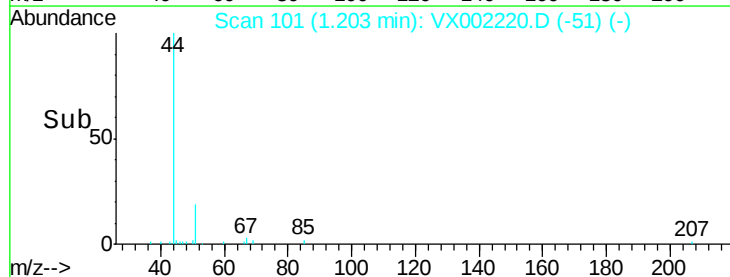
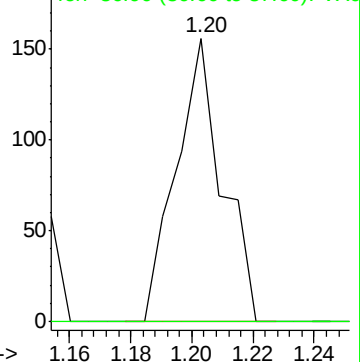
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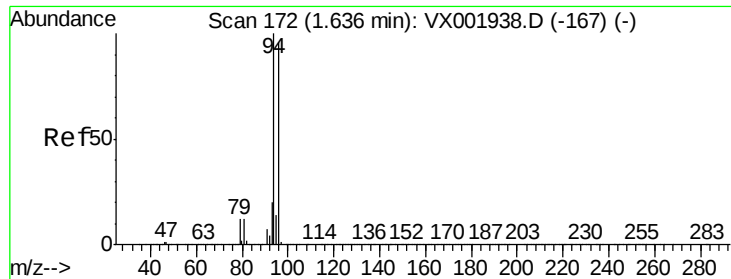
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.20 min Scan# 101
Delta R.T. 0.01 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

Tgt Ion: 85 Resp: 162
Ion Ratio Lower Upper
85 100
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

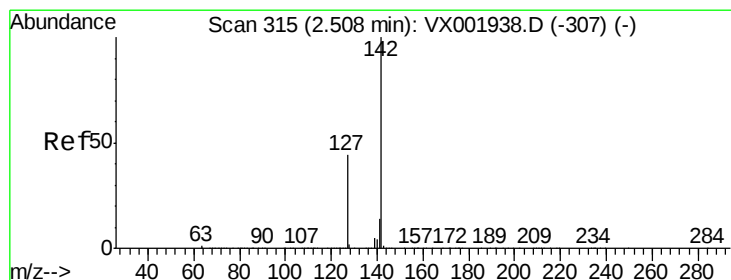
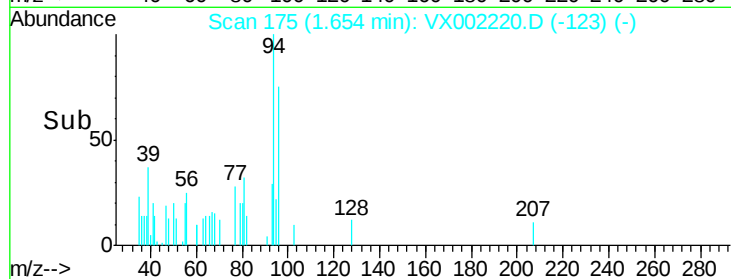
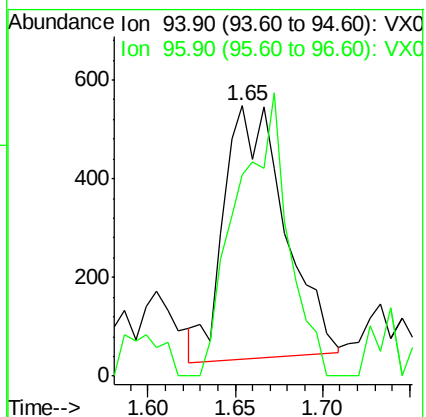
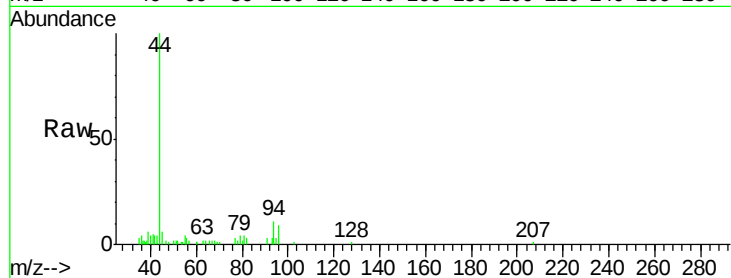
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 1244

Ion Ratio Lower Upper

94 100

96 83.6 75.9 113.9



#10

Methyl Iodide

Concen: 0.60 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

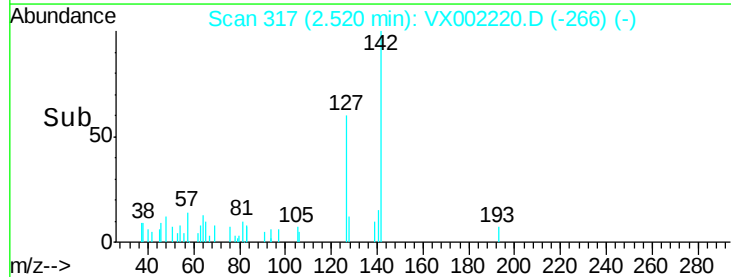
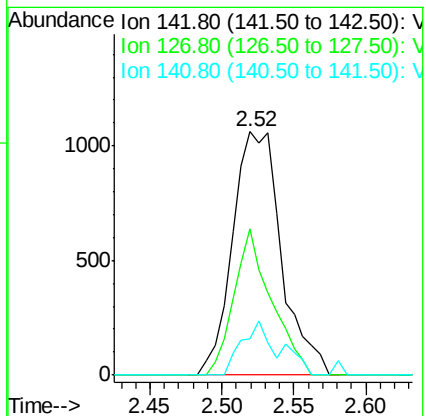
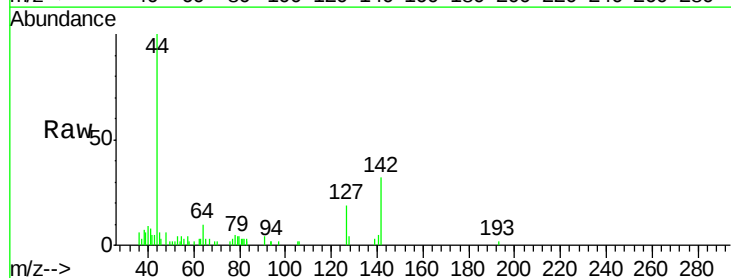
Tgt Ion: 142 Resp: 2506

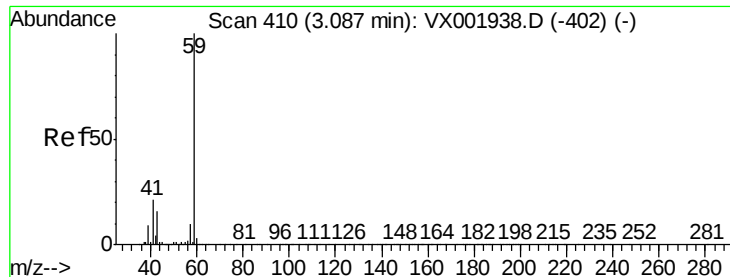
Ion Ratio Lower Upper

142 100

127 46.0 35.5 53.3

141 16.9 11.3 16.9



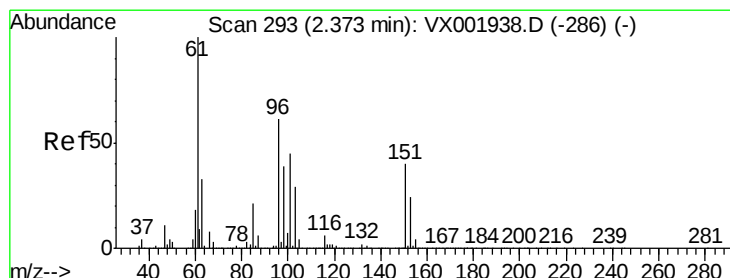
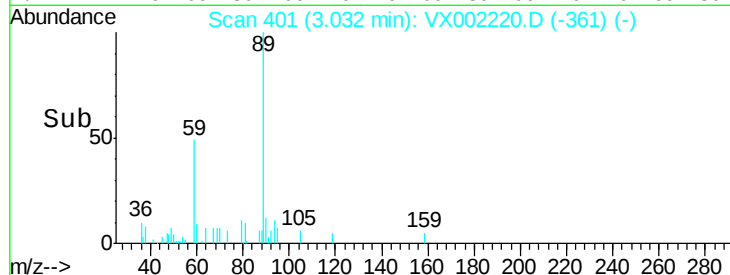
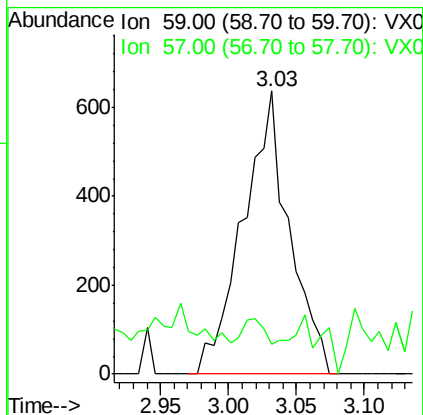
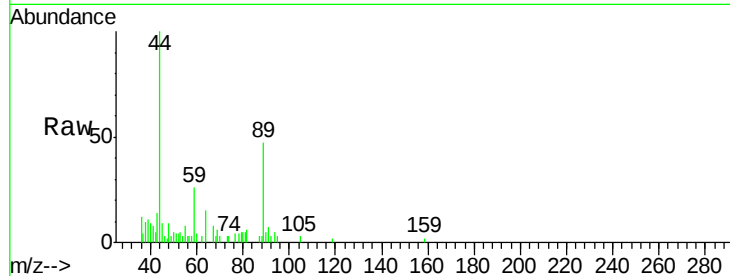


#11

Tert butyl alcohol
Concen: 1.75 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.06 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

Instrument :
MSVOA_X
ClientSampled :

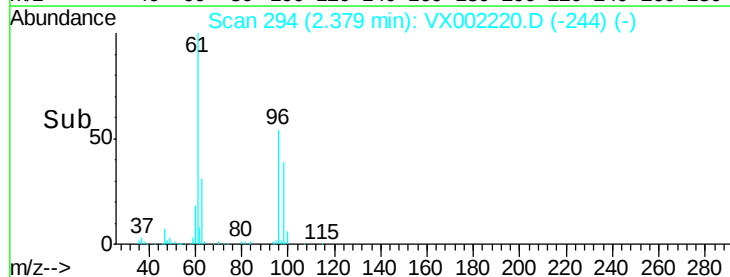
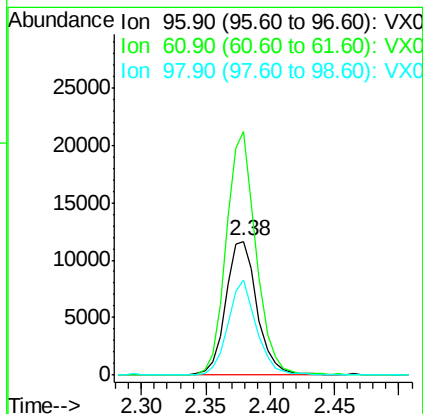
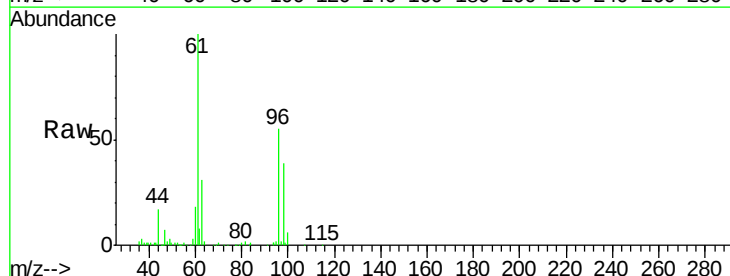
Tot Ion: 59 Resp: 1515
Ion Ratio Lower Upper
59 100
57 9.2 8.9 13.3

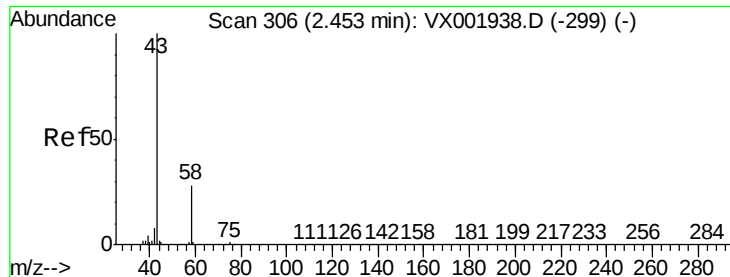


#12

1,1-Dichloroethene
Concen: 6.93 ug/l
RT: 2.38 min Scan# 294
Delta R.T. 0.01 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

Tgt Ion: 96 Resp: 19893
Ion Ratio Lower Upper
96 100
61 181.8 131.7 197.5
98 71.5 51.6 77.4





#16

Acetone

Concen: 1.17 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

Instrument :

MSVOA_X

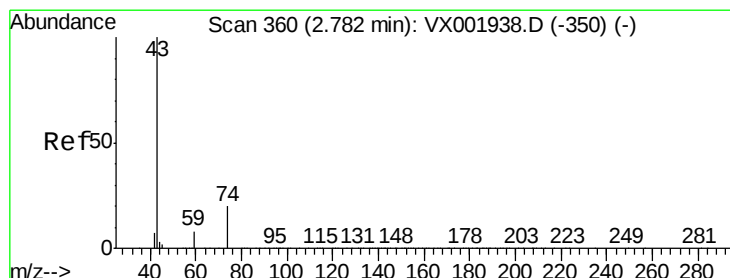
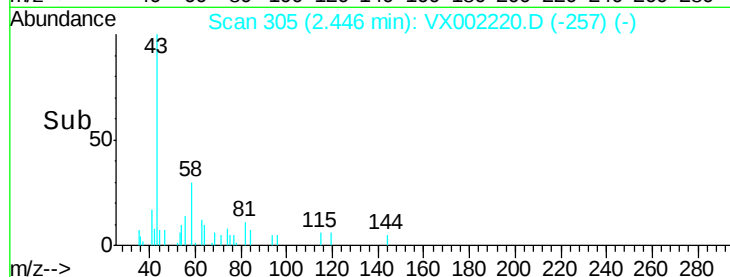
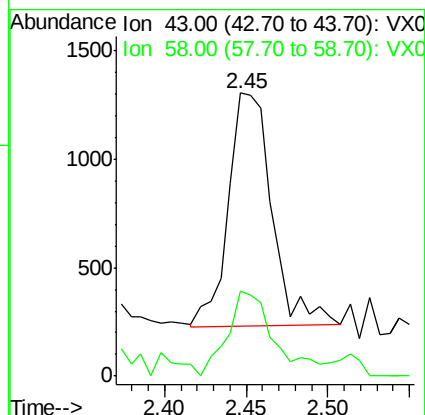
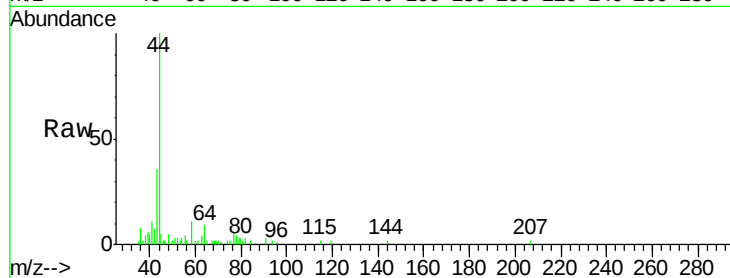
ClientSampled :

Tot Ion: 43 Resp: 1988

Ion Ratio Lower Upper

43 100

58 31.5 22.3 33.5



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002220.D

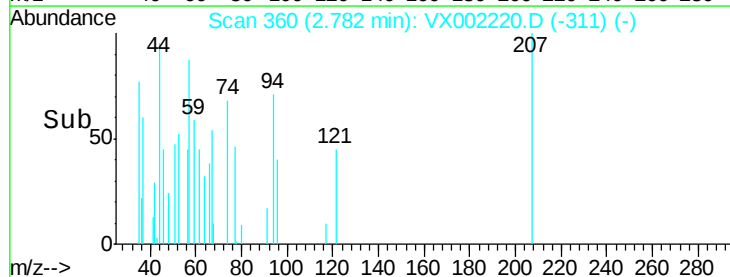
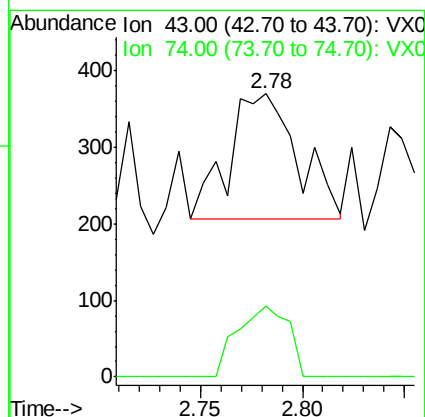
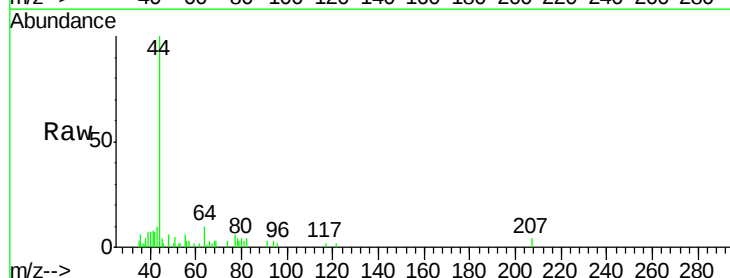
Acq: 01 Jun 2018 19:03

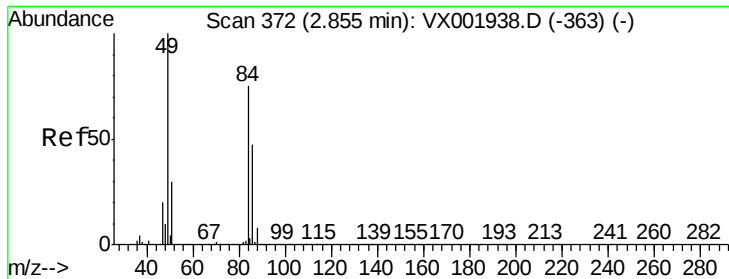
Tgt Ion: 43 Resp: 382

Ion Ratio Lower Upper

43 100

74 41.9 16.8 25.2#



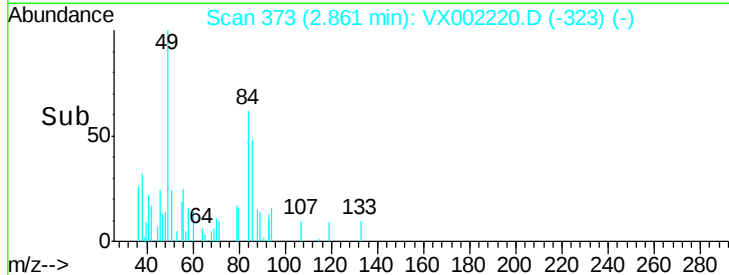
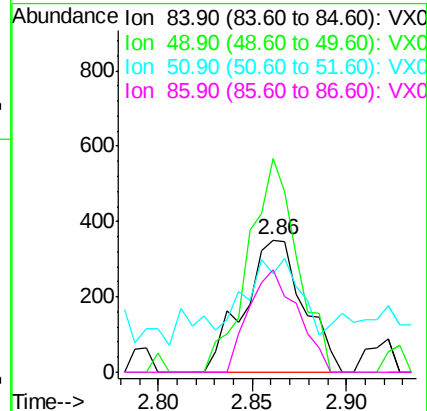
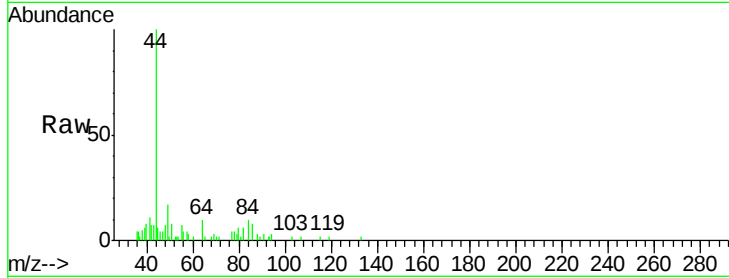


#20

Methvlene Chloride
 Concen: Below Cal
 RT: 2.86 min Scan# 373
 Delta R.T. 0.01 min
 Lab File: VX002220.D
 Acq: 01 Jun 2018 19:03

Instrument :
 MSVOA_X
 ClientSampled :

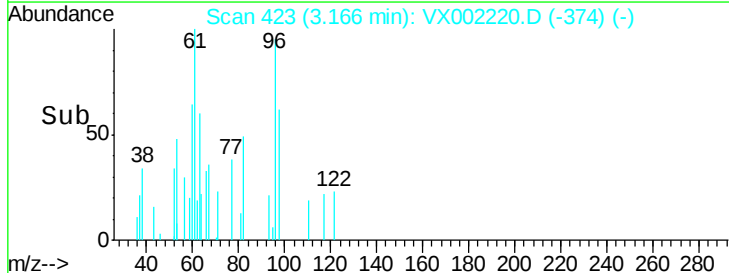
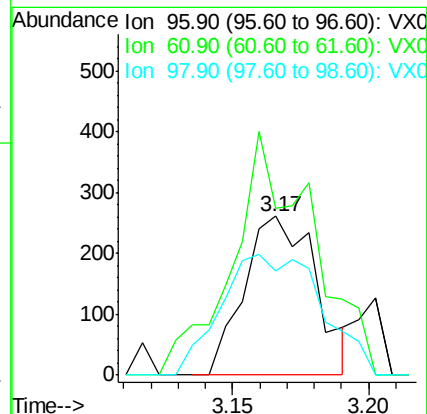
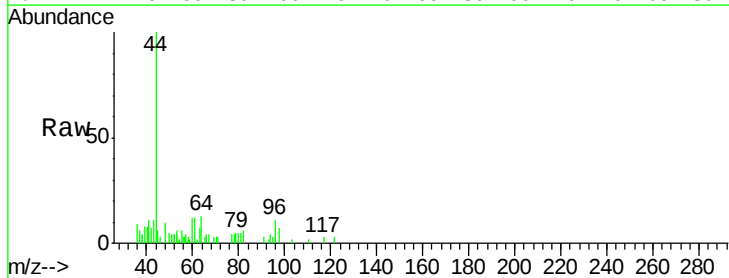
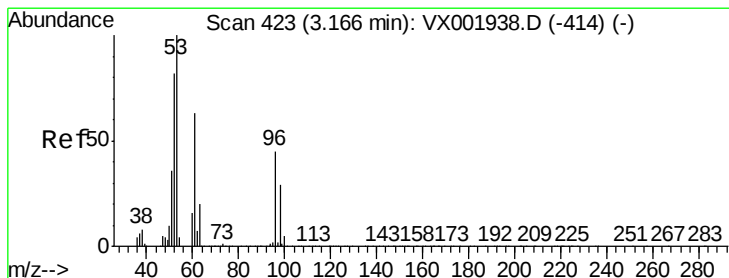
Tot Ion: 84 Resp: 772
 Ion Ratio Lower Upper
 84 100
 49 162.0 107.2 160.8#
 51 39.1 32.4 48.6
 86 78.0 50.4 75.6#

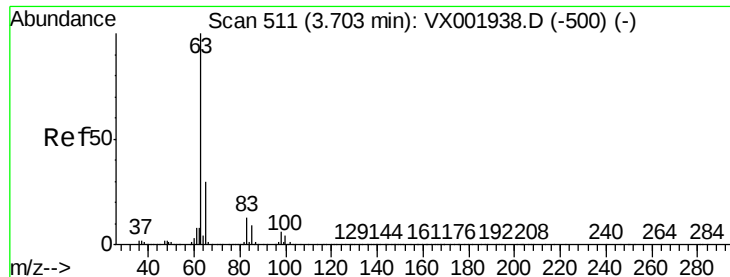


#21

trans-1,2-Dichloroethene
 Concen: Below Cal
 RT: 3.17 min Scan# 423
 Delta R.T. -0.00 min
 Lab File: VX002220.D
 Acq: 01 Jun 2018 19:03

Tgt Ion: 96 Resp: 473
 Ion Ratio Lower Upper
 96 100
 61 73.2 113.3 169.9#
 98 46.4 51.7 77.5#





#24

1,1-Dichloroethane

Concen: 0.26 ug/l

RT: 3.70 min Scan# 510

Delta R.T. -0.01 min

Lab File: VX002220.D

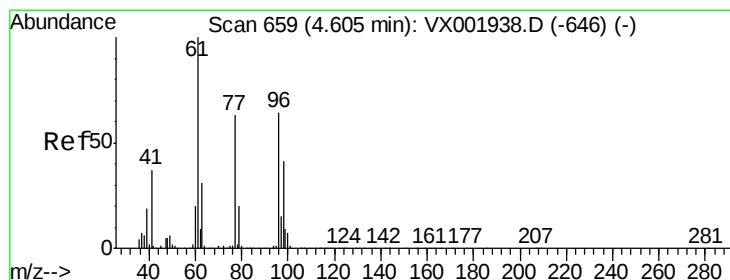
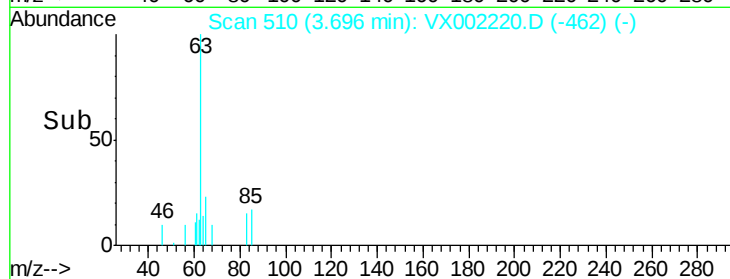
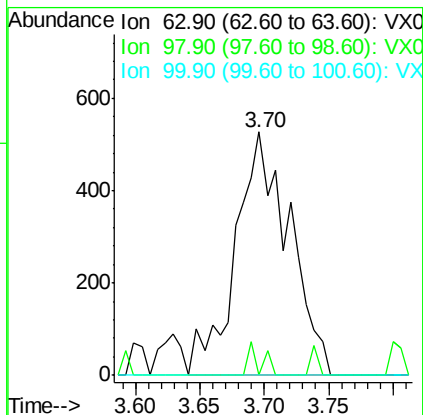
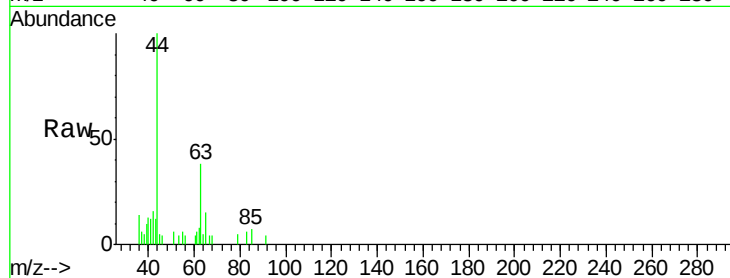
Acq: 01 Jun 2018 19:03

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	63	Resp:	1526
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.8#
100	0.0	2.1	6.5#



#27

cis-1,2-Dichloroethene

Concen: 2.44 ug/l

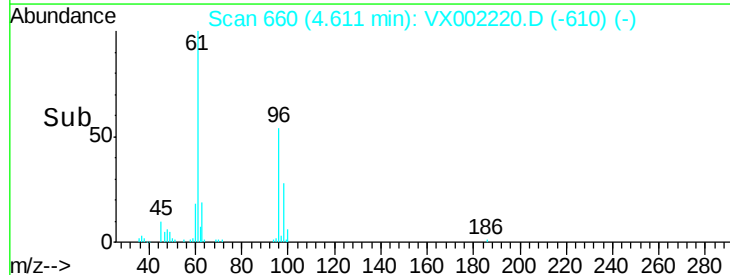
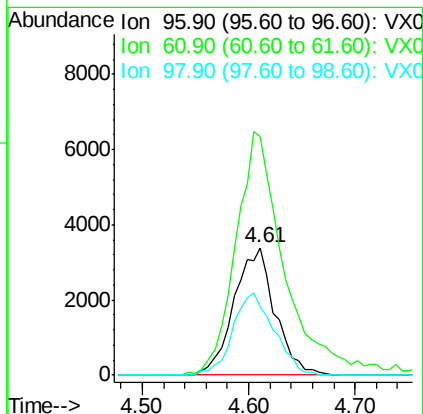
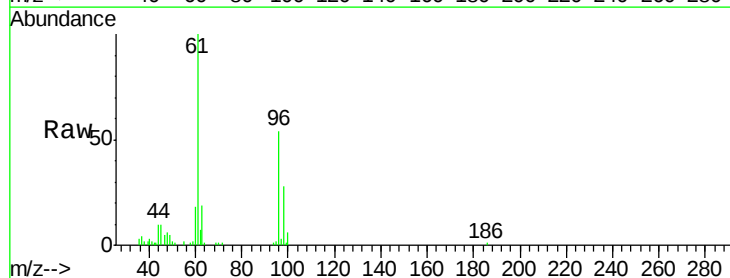
RT: 4.61 min Scan# 660

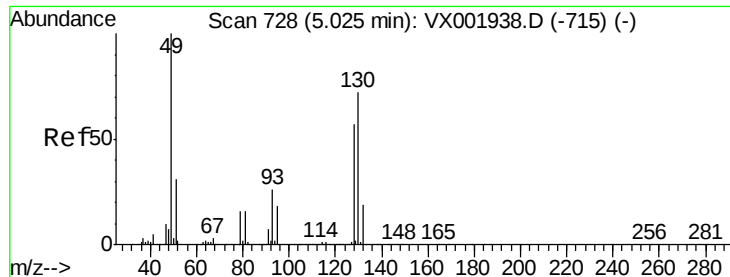
Delta R.T. 0.01 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

Tgt Ion:	96	Resp:	9135
Ion	Ratio	Lower	Upper
96	100		
61	227.3	0.0	348.4
98	64.9	0.0	128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 4.91 min Scan# 709

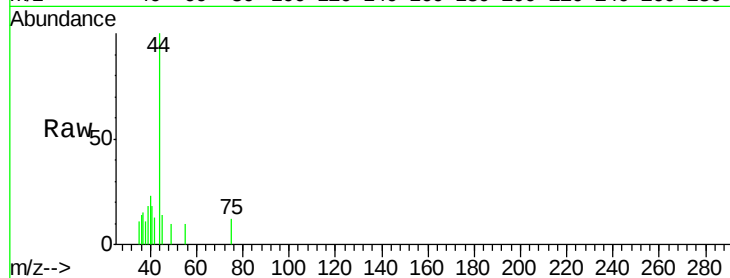
Delta R.T. -0.12 min

Lab File: VX002220.D

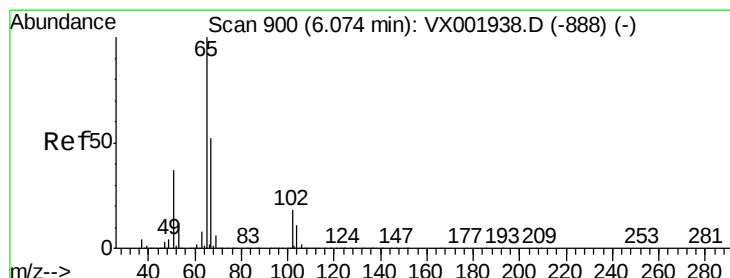
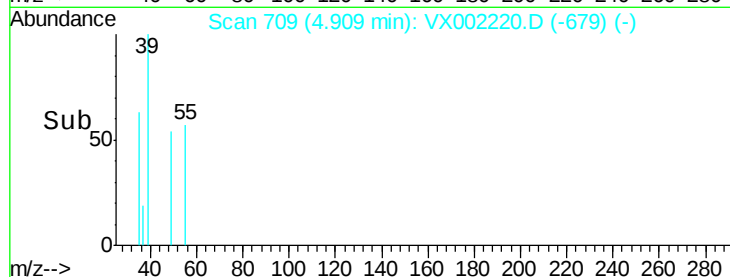
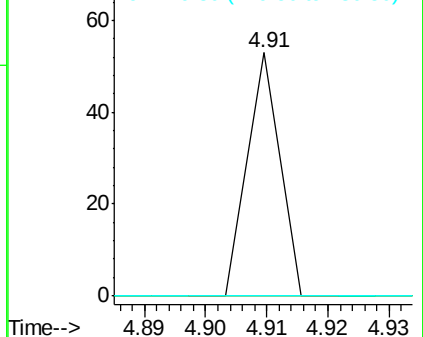
Acq: 01 Jun 2018 19:03

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
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 52.37 ug/l

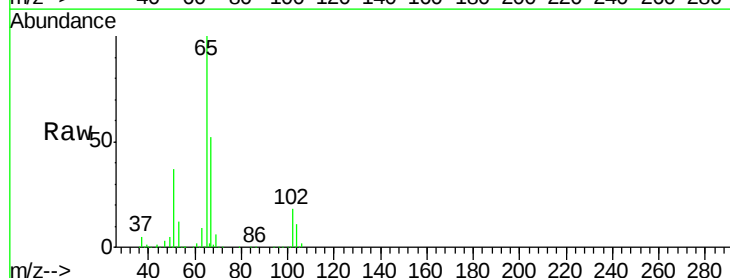
RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

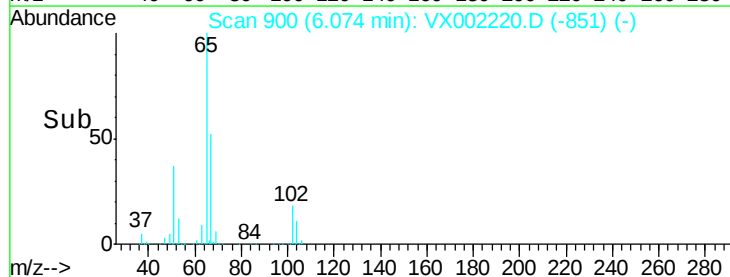
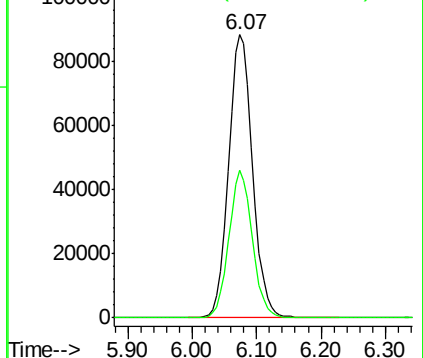
Lab File: VX002220.D

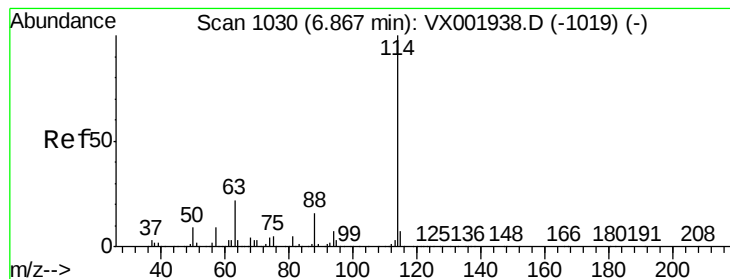
Acq: 01 Jun 2018 19:03

Tgt Ion: 65 Resp: 230700
Ion Ratio Lower Upper
65 100
67 50.9 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

Instrument :

MSVOA_X

ClientSampleId :

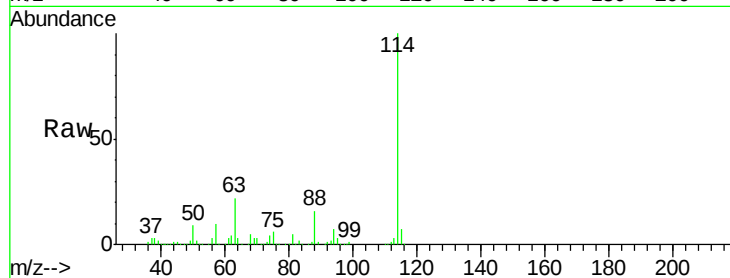
Tot Ion:114 Resp: 354475

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.2

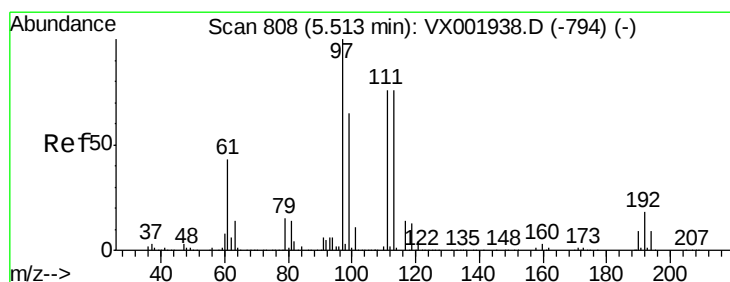
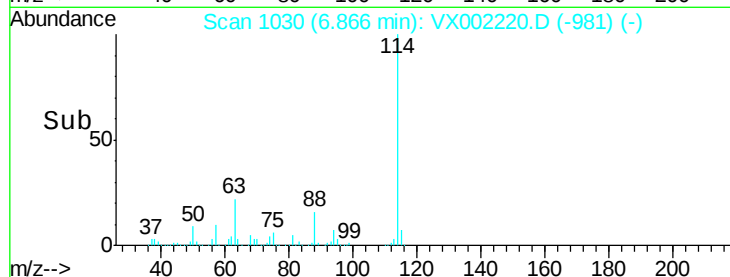
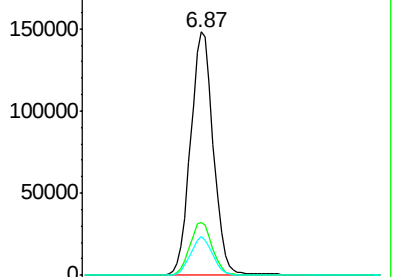
88 15.8 0.0 31.6



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: 46.60 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

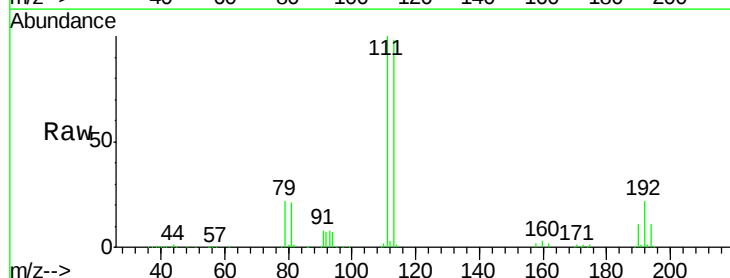
Tgt Ion:113 Resp: 165200

Ion Ratio Lower Upper

113 100

111 102.4 82.0 123.0

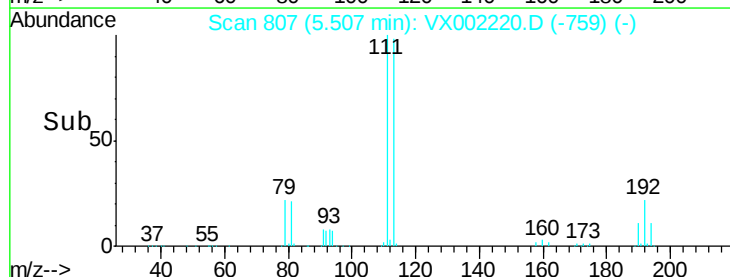
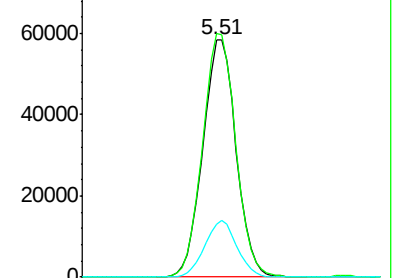
192 23.2 18.9 28.3

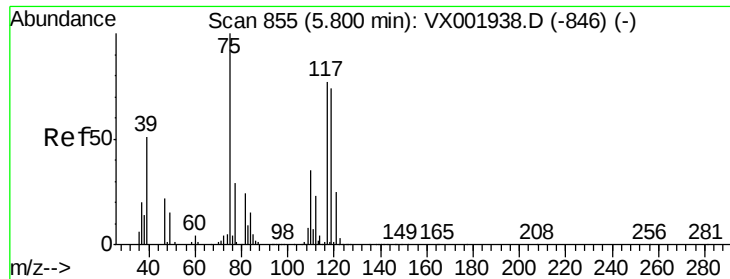


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.56 ug/l

RT: 5.67 min Scan# 833

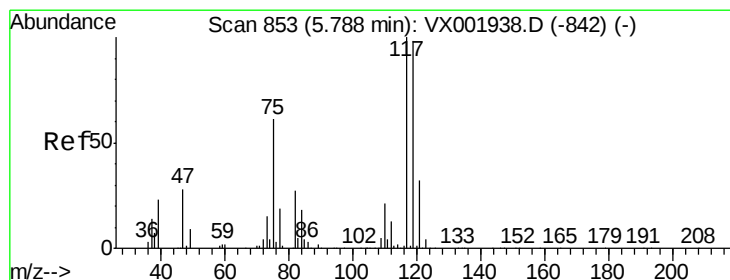
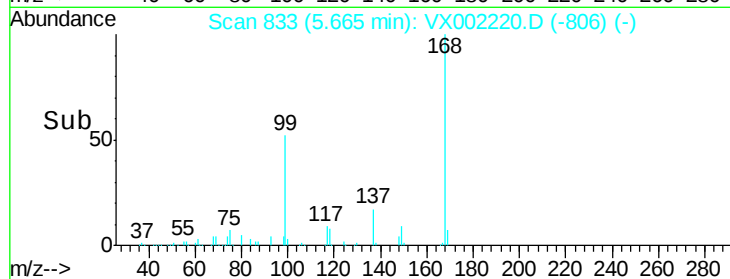
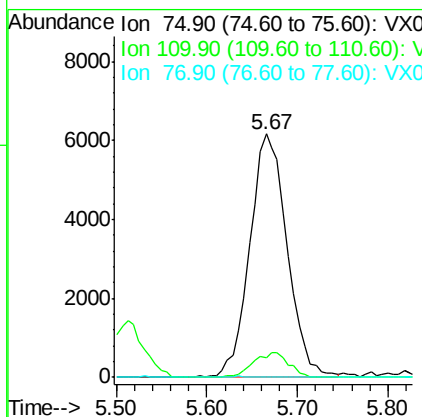
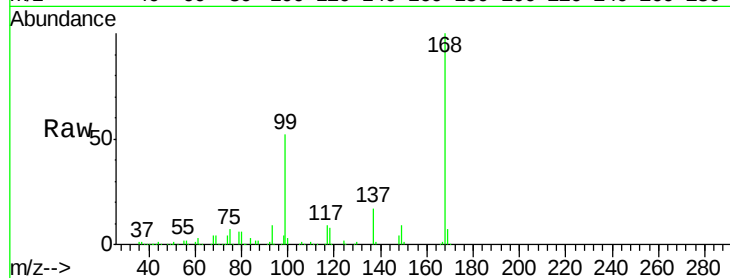
Delta R.T. -0.13 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	17538
Ion	Ratio	Lower	Upper
75	100		
110	9.8	17.4	52.2#
77	0.0	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 3.95 ug/l

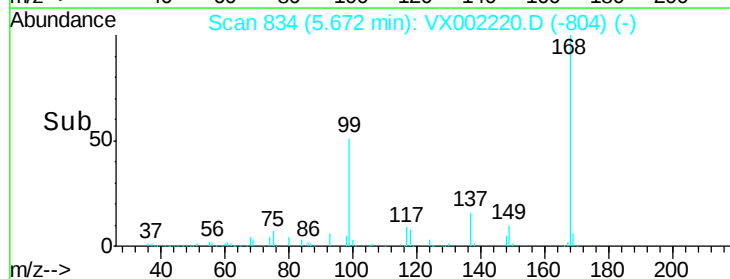
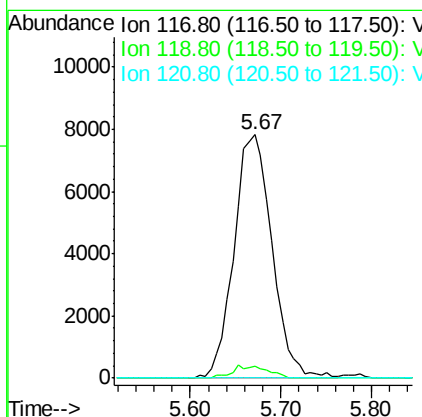
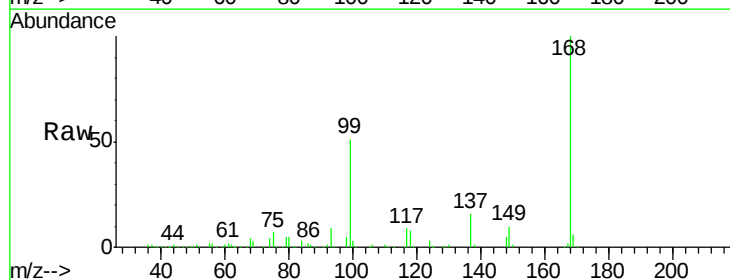
RT: 5.67 min Scan# 834

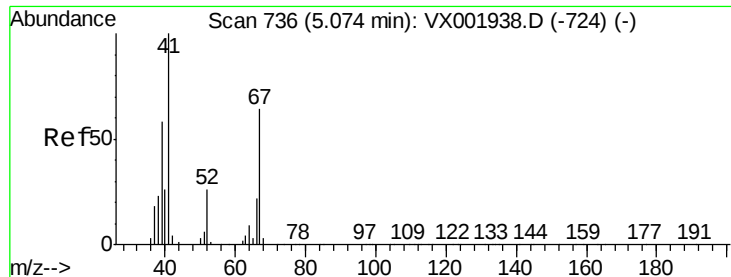
Delta R.T. -0.12 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

Tgt Ion:	117	Resp:	22728
Ion	Ratio	Lower	Upper
117	100		
119	4.6	78.5	117.7#
121	0.0	25.5	38.3#

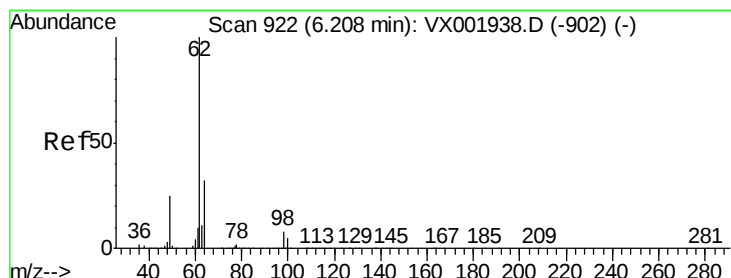
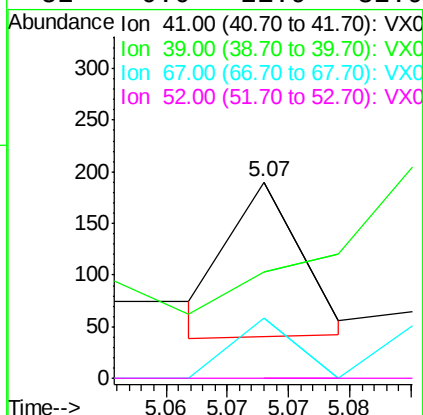
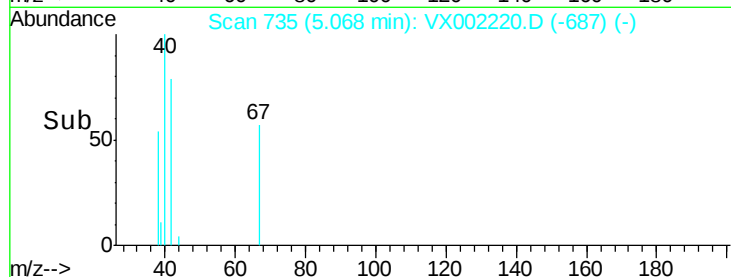
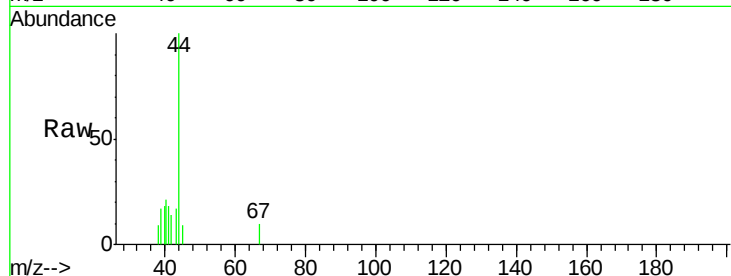




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.07 min Scan# 735
Delta R.T. -0.01 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

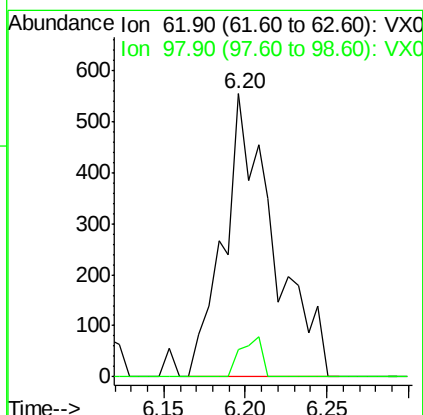
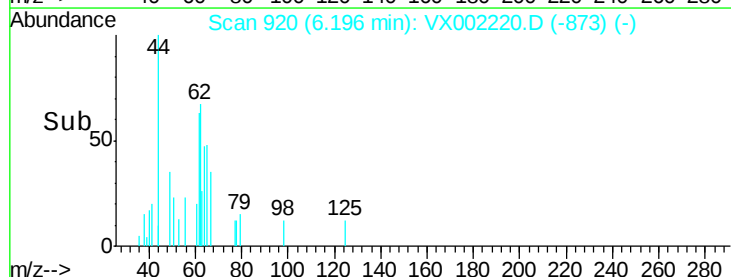
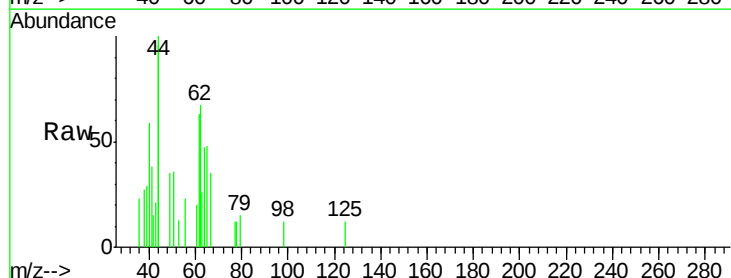
Instrument :
MSVOA_X
ClientSampled :

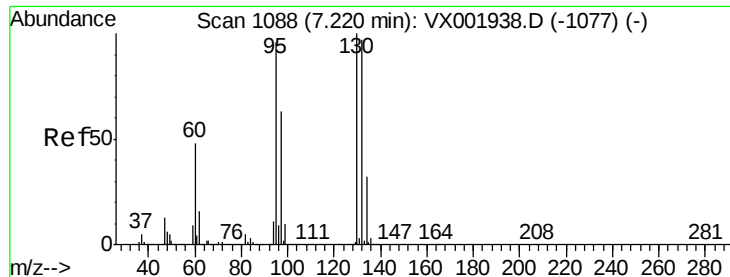
Tot Ion:	41	Resp:	60
Ion	Ratio	Lower	Upper
41	100		
39	243.3	46.0	69.0#
67	68.3	50.6	75.8
52	0.0	21.9	32.9#



#42
1,2-Dichloroethane
Concen: 0.20 ug/l
RT: 6.20 min Scan# 920
Delta R.T. -0.01 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

Tgt Ion:	62	Resp:	1177
Ion	Ratio	Lower	Upper
62	100		
98	6.0	0.0	17.0





#44

Trichloroethene

Concen: 0.79 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.01 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

Instrument :

MSVOA_X

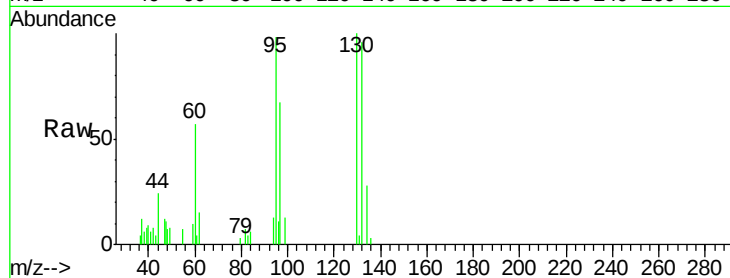
ClientSampleId :

Tot Ion:130 Resp: 3325

Ion Ratio Lower Upper

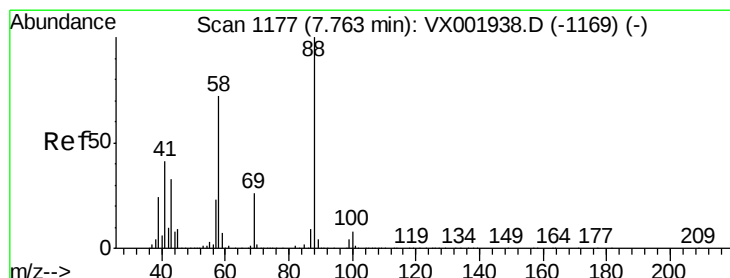
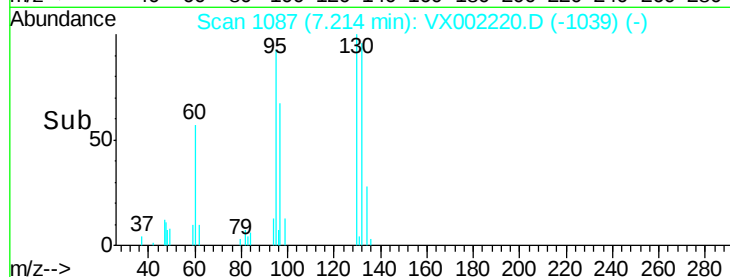
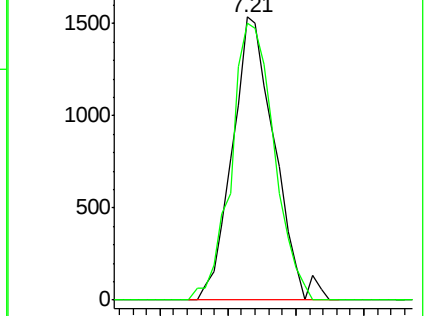
130 100

95 97.7 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 3.06 ug/l

RT: 7.77 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

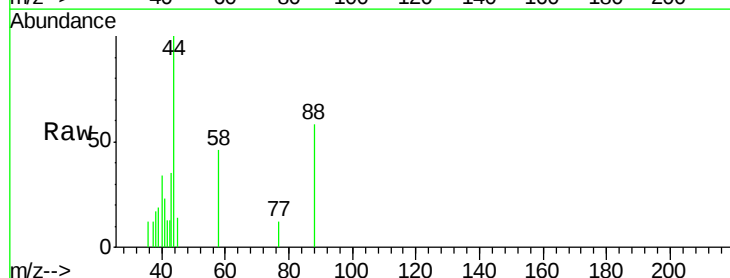
Tgt Ion: 88 Resp: 294

Ion Ratio Lower Upper

88 100

43 31.0 29.8 44.8

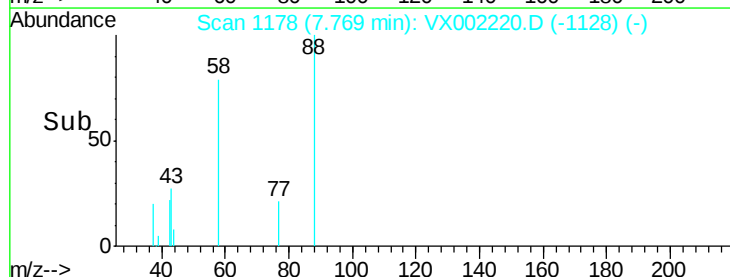
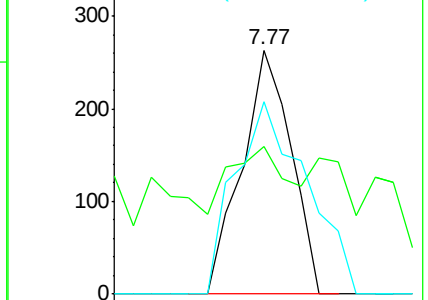
58 114.3 58.7 88.1#

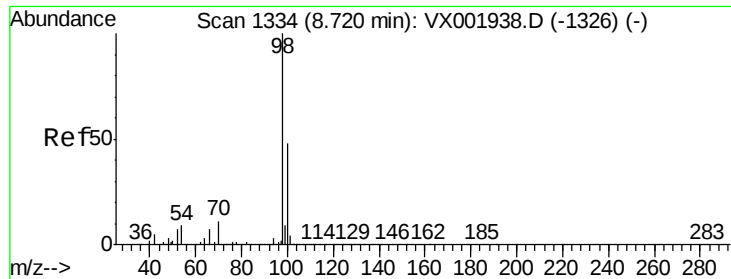


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

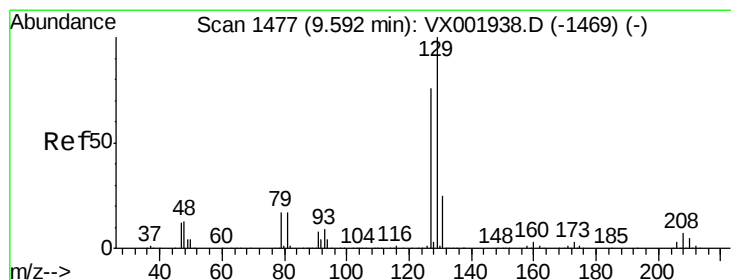
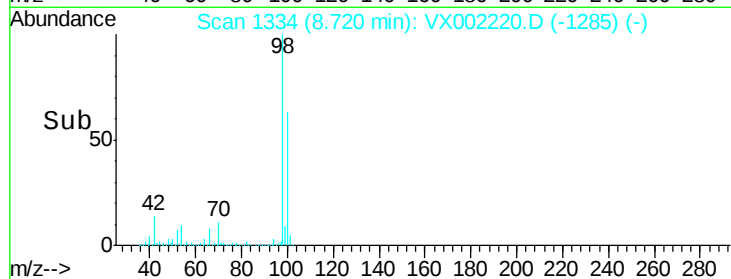
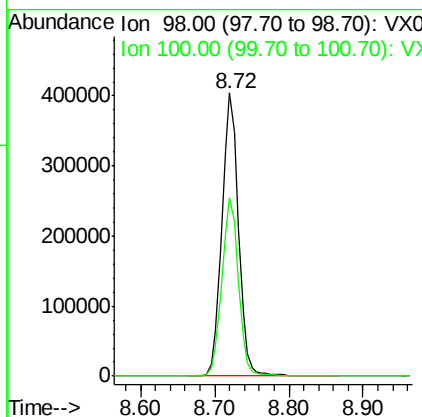
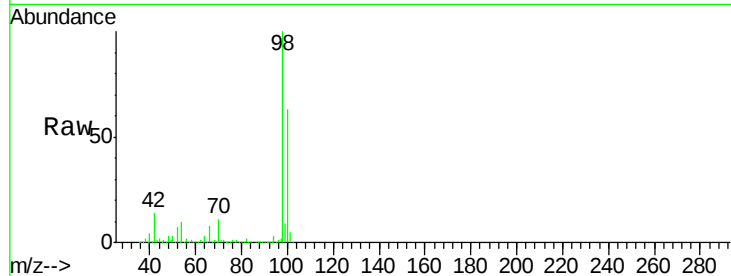




#50
Toluene-d8
Concen: 48.85 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

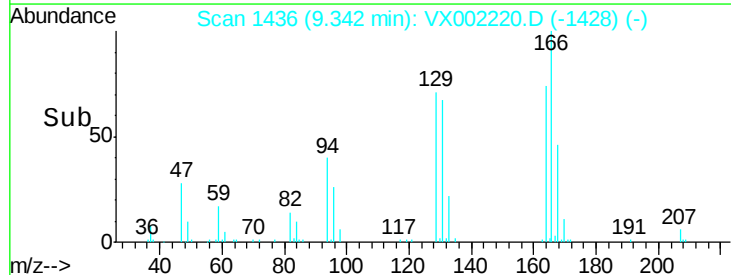
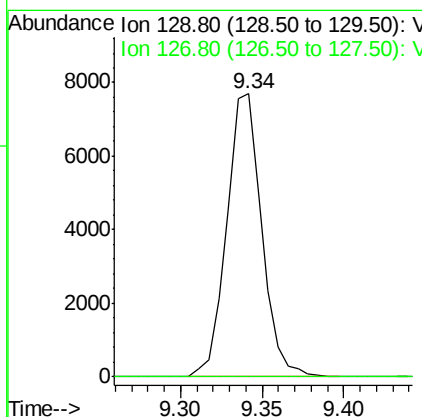
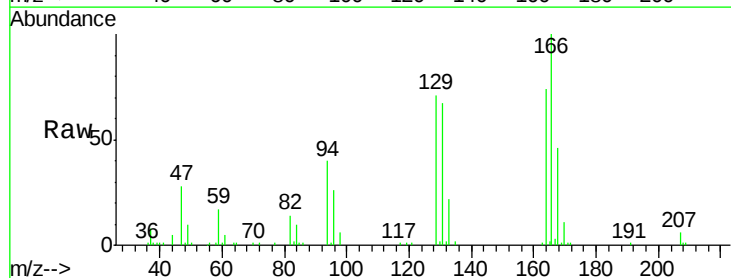
Instrument :
MSVOA_X
ClientSampled :

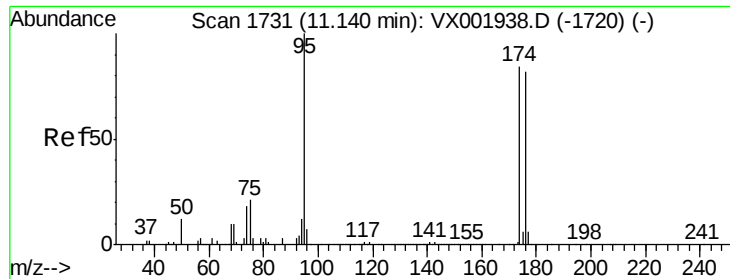
Tot Ion: 98 Resp: 626892
Ion Ratio Lower Upper
98 100
100 63.1 51.5 77.3



#60
Dibromochloromethane
Concen: 2.52 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.25 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

Tgt Ion:129 Resp: 11477
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#





#62

4-Bromofluorobenzene

Concen: 43.71 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

Instrument :

MSVOA_X

ClientSampleId :

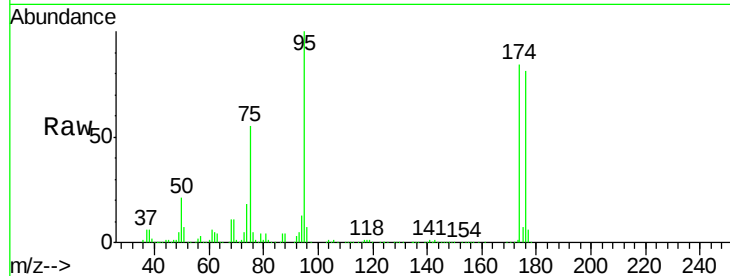
Tot Ion: 95 Resp: 219485

Ion Ratio Lower Upper

95 100

174 92.0 0.0 178.8

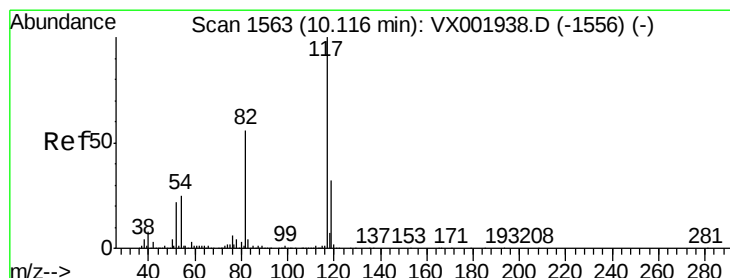
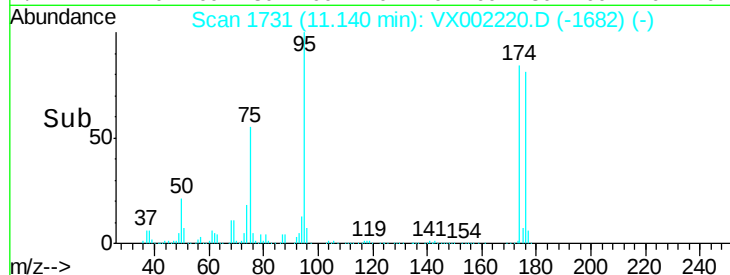
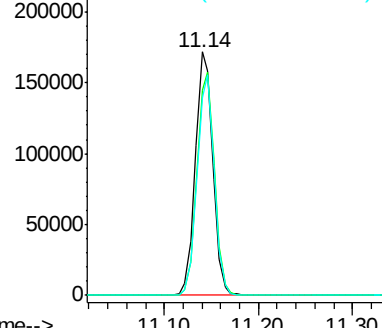
176 89.0 0.0 175.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

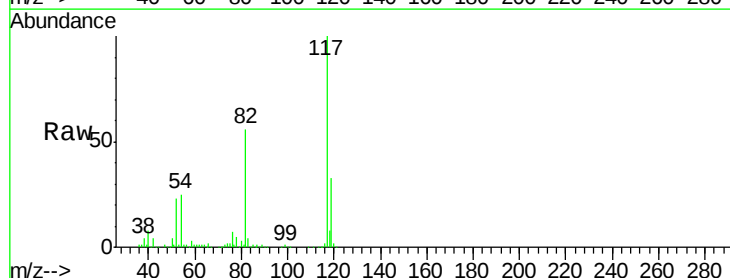
Tgt Ion: 117 Resp: 321993

Ion Ratio Lower Upper

117 100

82 56.3 44.8 67.2

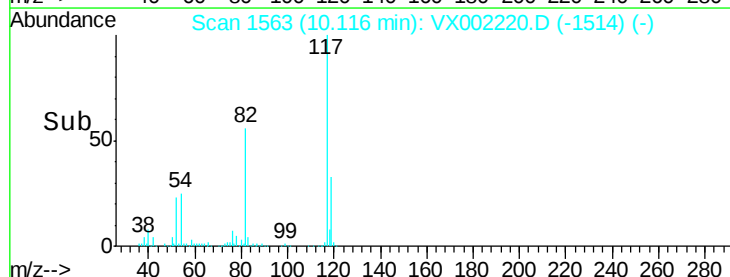
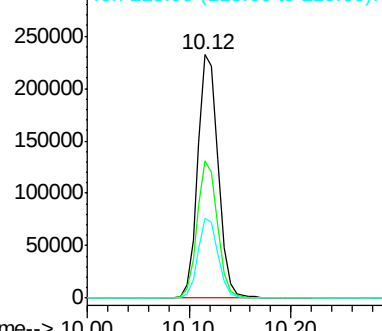
119 32.9 25.5 38.3

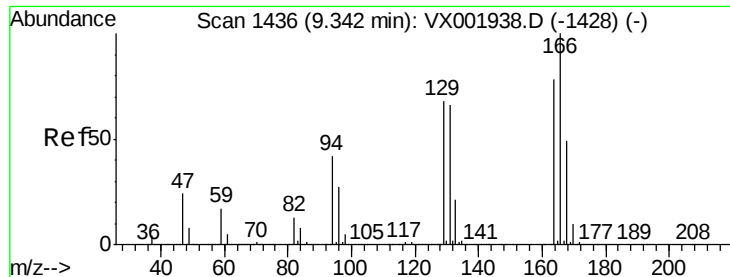


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

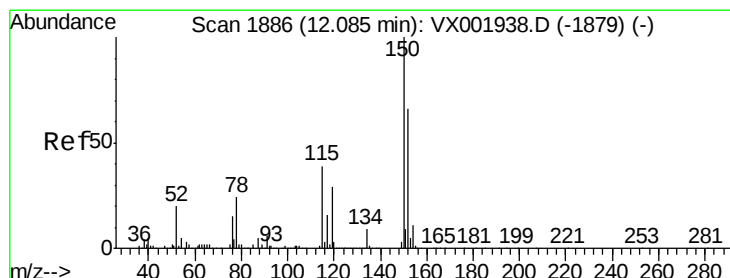
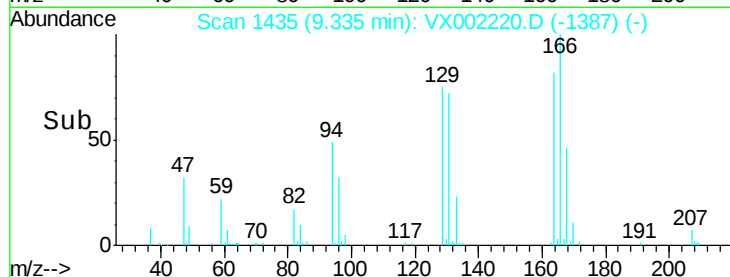
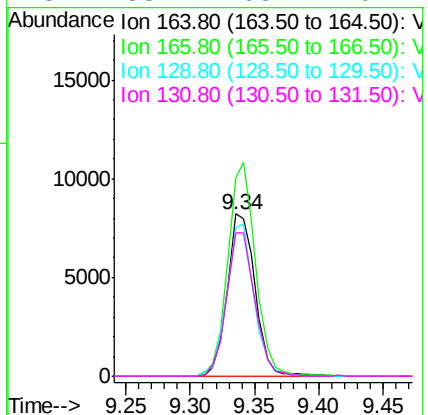
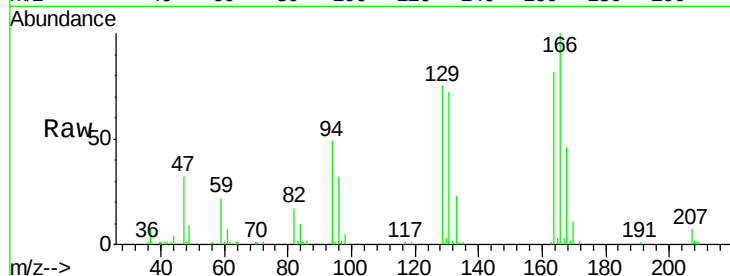




#64
Tetrachloroethene
Concen: 2.71 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.01 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

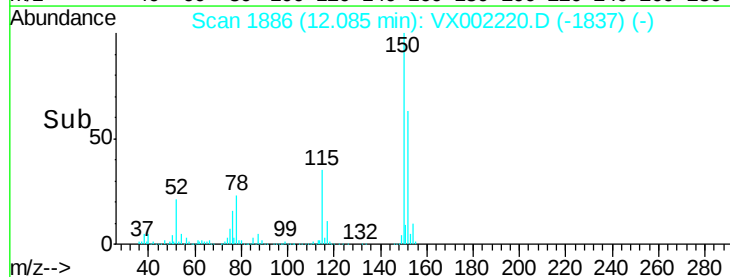
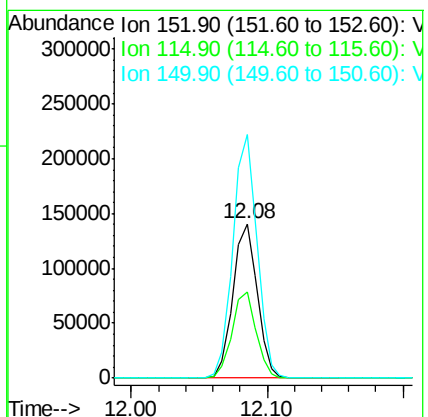
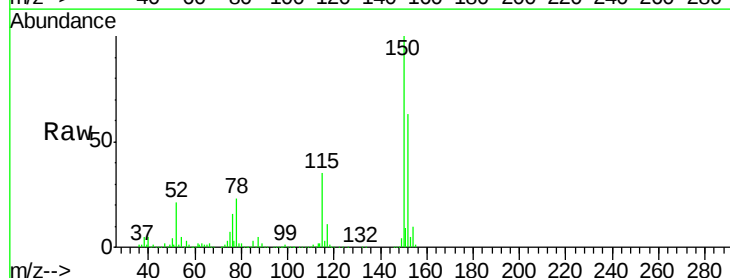
Instrument :
MSVOA_X
ClientSampleId :

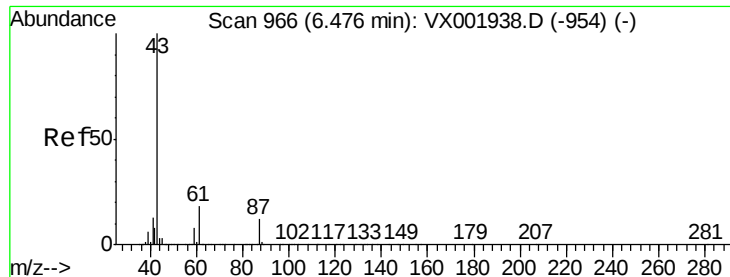
Tot Ion	Ratio	Lower	Upper
164	100		
166	122.5	102.7	154.1
129	92.0	70.3	105.5
131	88.1	68.2	102.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002220.D
Acq: 01 Jun 2018 19:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	42.3	126.8
150	156.8	0.0	351.0





#74

N-amvl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 199

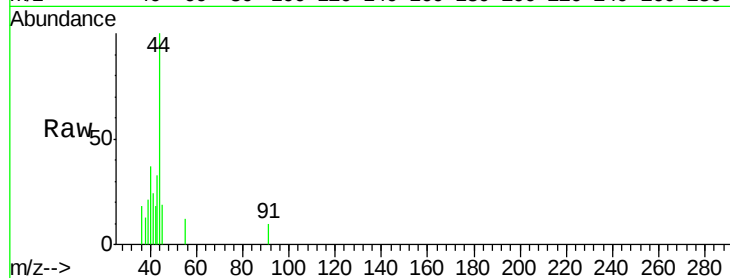
Ion Ratio Lower Upper

43 100

70 0.0 0.1 0.1#

55 68.8 0.1 0.1#

61 0.0 14.5 21.7#

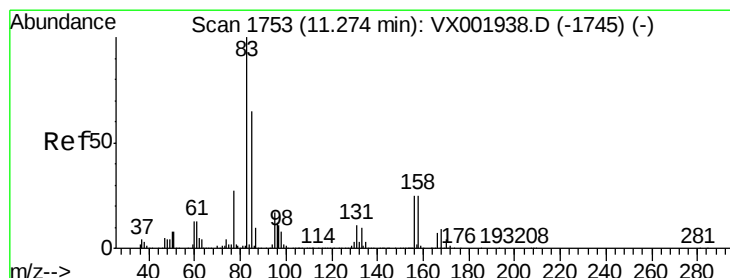
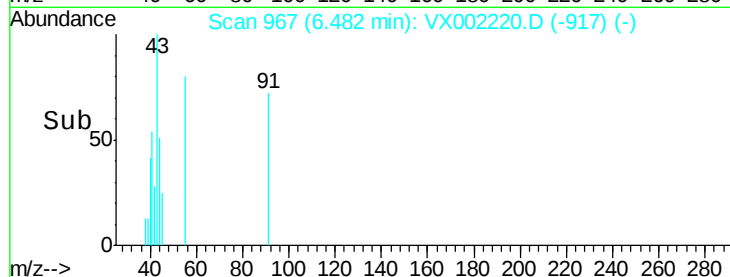
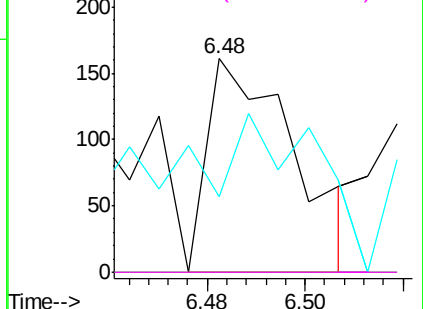


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.35 min Scan# 1766

Delta R.T. 0.08 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

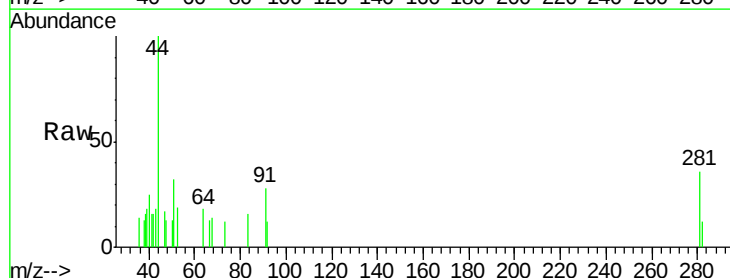
Tgt Ion: 83 Resp: 26

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

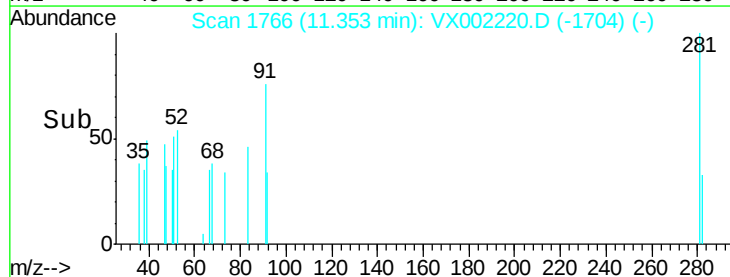
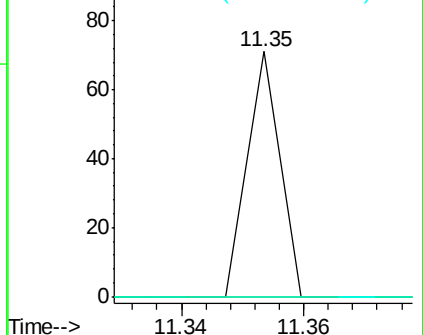
85 0.0 32.6 97.7#

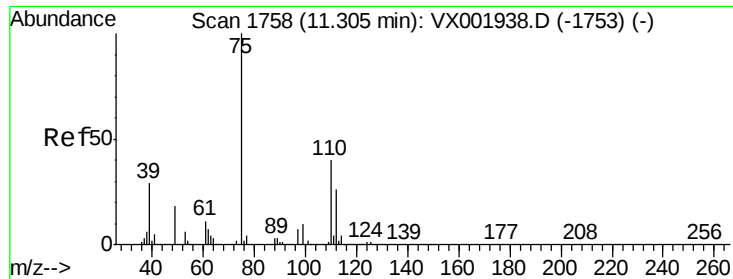


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

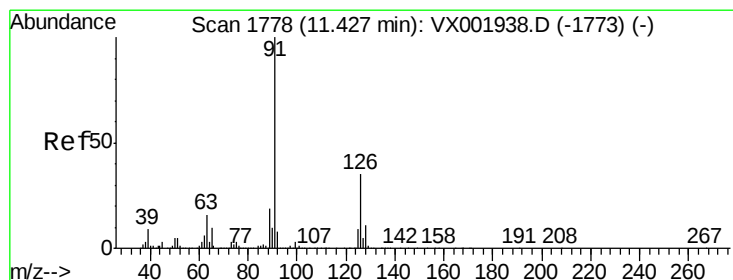
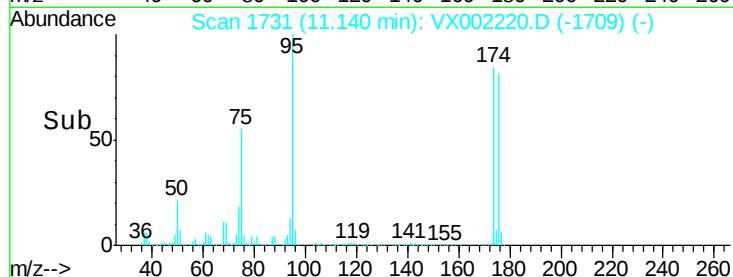
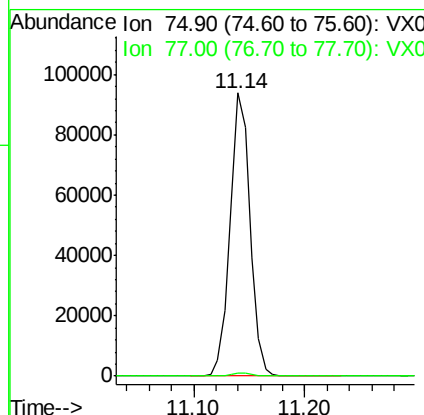
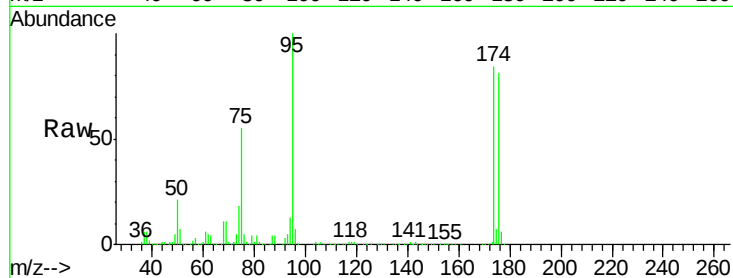




#76
 1,2,3-Trichloropropane
 Concen: 27.76 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002220.D
 Acq: 01 Jun 2018 19:03

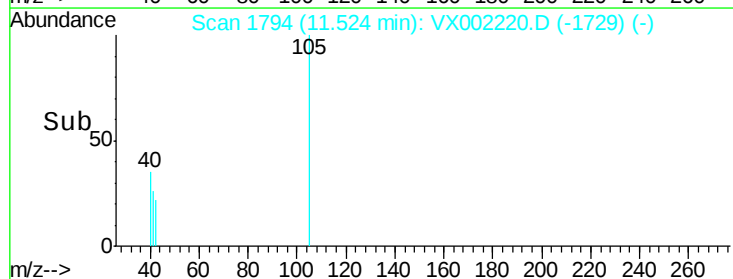
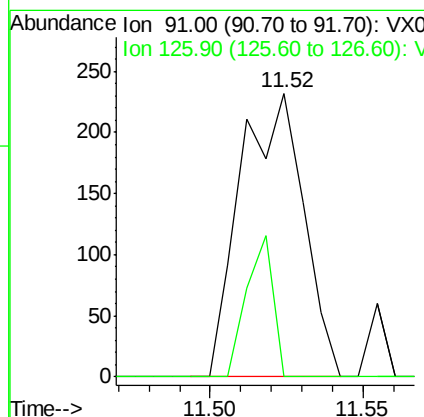
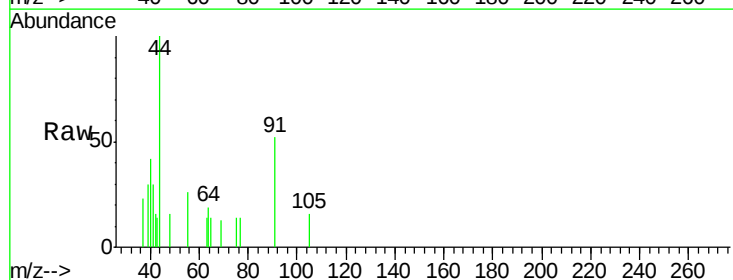
Instrument :
 MSVOA_X
 ClientSampleId :

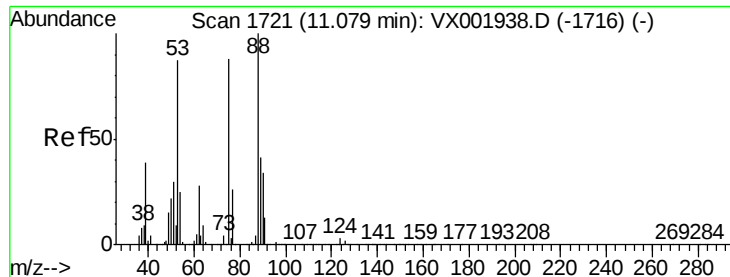
Tot Ion: 75 Resp: 116797
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.52 min Scan# 1794
 Delta R.T. 0.10 min
 Lab File: VX002220.D
 Acq: 01 Jun 2018 19:03

Tgt Ion: 91 Resp: 332
 Ion Ratio Lower Upper
 91 100
 126 20.8 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 66.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002220.D

Acq: 01 Jun 2018 19:03

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 116797

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#

