

Data Path : W:\HPCHEM1\MSVOA X\DATA\WX060118\
 Data File : VX002226.D
 Acq On : 01 Jun 2018 21:43
 Operator : JC/MD
 Sample : J3151-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 02 03:22:40 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	218206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	317705	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	284923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	154923	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	204495	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	
35) Dibromofluoromethane	5.51	113	147984	46.58	ug/l	0.00
Spiked Amount			Recovery	=	93.16%	
50) Toluene-d8	8.72	98	586085	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	11.14	95	199245	44.27	ug/l	0.00
Spiked Amount			Recovery	=	88.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	147	Below Cal	#	41
10) Methyl Iodide	2.52	142	1486	0.40	ug/l	# 94
11) Tert butyl alcohol	3.03	59	1082	1.41	ug/l	# 42
12) 1,1-Dichloroethene	2.38	96	835	0.33	ug/l	95
13) Acrolein	2.27	56	157	0.47	ug/l	# 43
16) Acetone	2.45	43	1536	1.02	ug/l	100
18) Methyl Acetate	2.73	43	162	Below Cal	#	55
19) Methyl tert-butyl Ether	3.21	73	2152	0.22	ug/l	91
20) Methylene Chloride	2.86	84	736	Below Cal		92
21) trans-1,2-Dichloroethene	3.16	96	342	Below Cal	#	69
25) 2-Butanone	4.71	43	589	0.21	ug/l	# 53
27) cis-1,2-Dichloroethene	4.61	96	4242	1.28	ug/l	# 1
28) Bromochloromethane	5.06	49	39	Below Cal	#	14
29) Tetrahydrofuran	5.19	42	361	0.20	ug/l	# 62
30) Chloroform	5.22	83	1605	0.28	ug/l	92
31) Cyclohexane	5.66	56	5011	0.93	ug/l	# 18
36) 1,1-Dichloropropene	5.67	75	15808	3.58	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	20710	4.02	ug/l	# 15
41) Methacrylonitrile	5.09	41	40	Below Cal	#	2
44) Trichloroethene	7.22	130	23457	6.22	ug/l	98
60) Dibromochloromethane	9.34	129	4959	1.22	ug/l	# 11
64) Tetrachloroethene	9.34	164	5199	1.27	ug/l	95
74) N-amyl acetate	6.49	43	349	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.15	83	283	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.14	75	107320	28.84	ug/l	# 33
79) 2-Chlorotoluene	11.43	91	118	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	107320	69.32	ug/l	# 10

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

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Instrument :

MSVOA_X

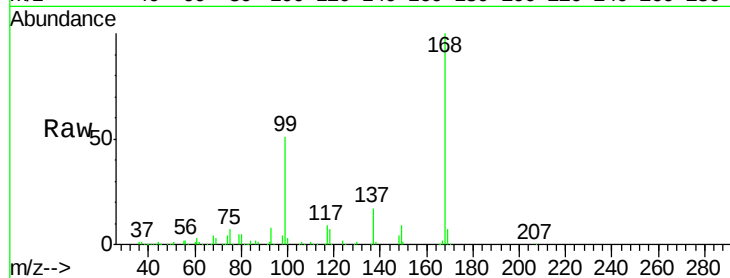
ClientSampled :

Tot Ion:168 Resp: 218206

Ion Ratio Lower Upper

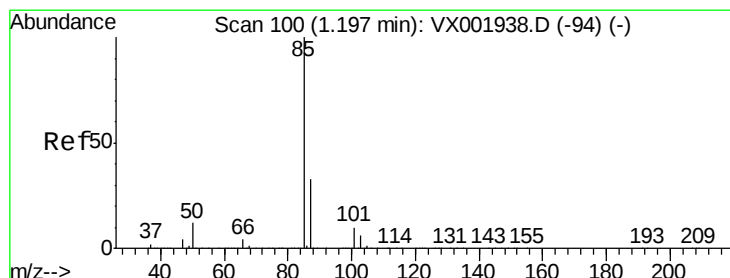
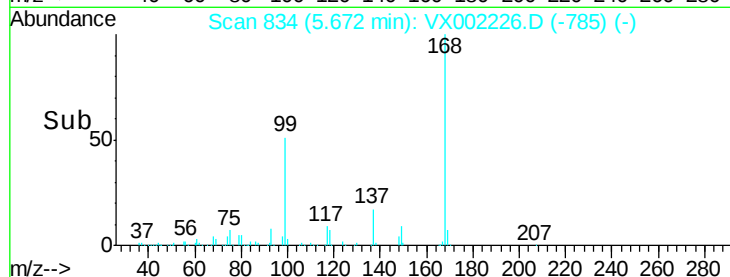
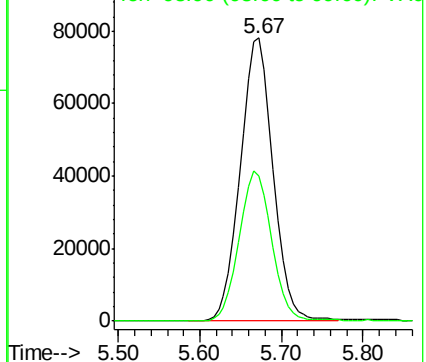
168 100

99 51.2 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: VX002226.D

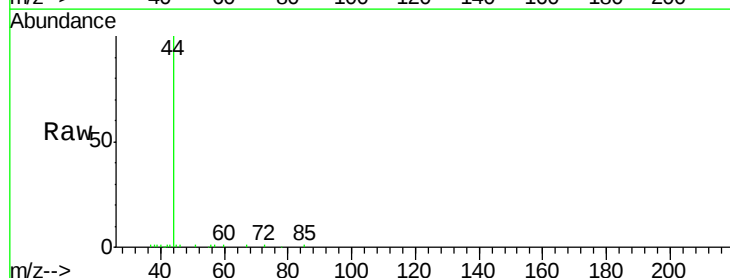
Acq: 01 Jun 2018 21:43

Tgt Ion: 85 Resp: 147

Ion Ratio Lower Upper

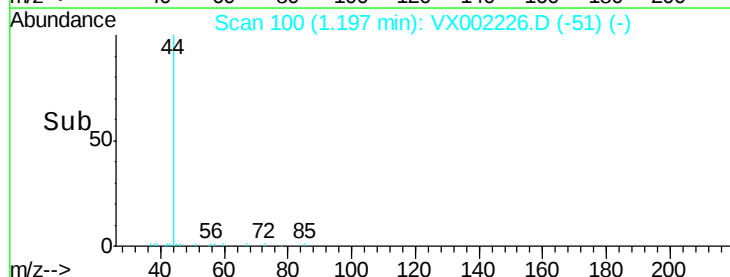
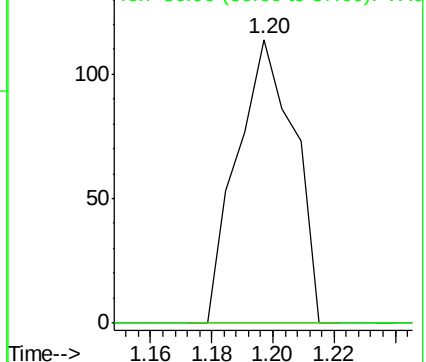
85 100

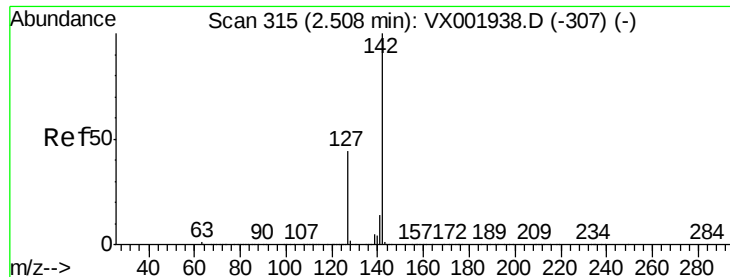
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

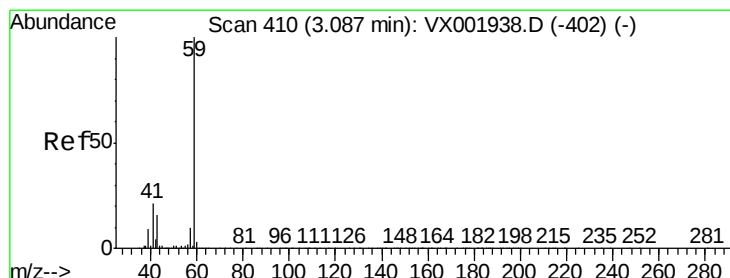
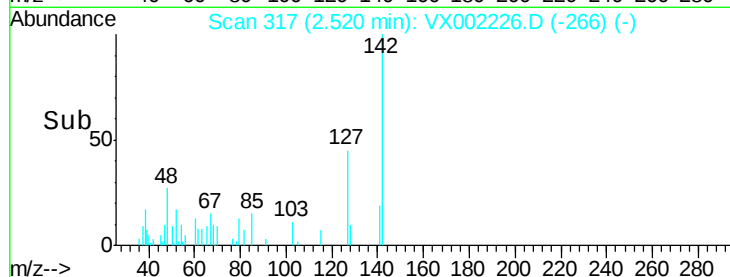
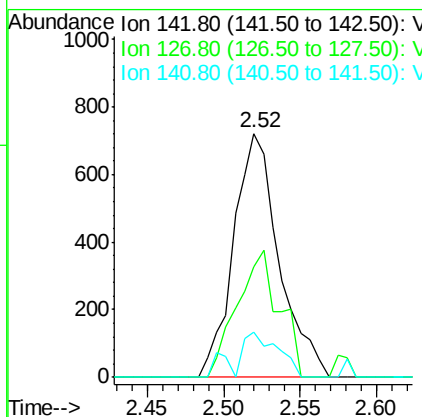
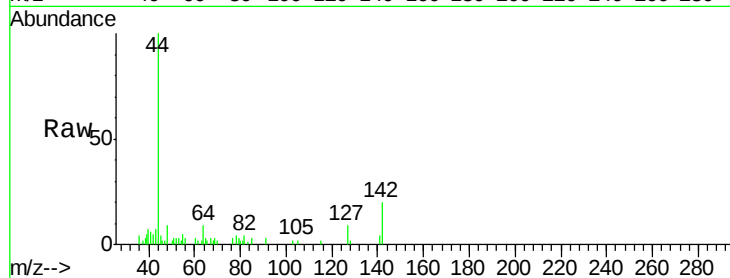




#10
Methvl Iodide
Concen: 0.40 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

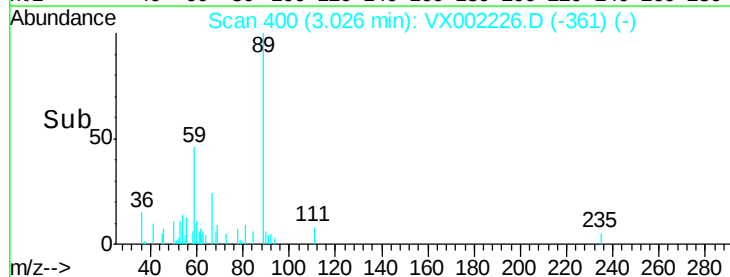
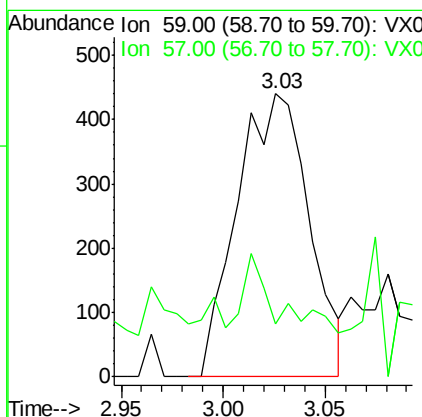
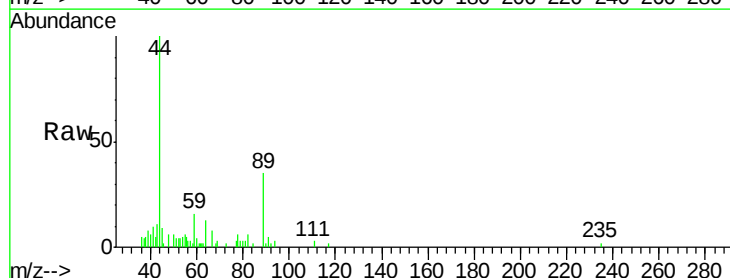
Instrument :
MSVOA_X
ClientSampleId :

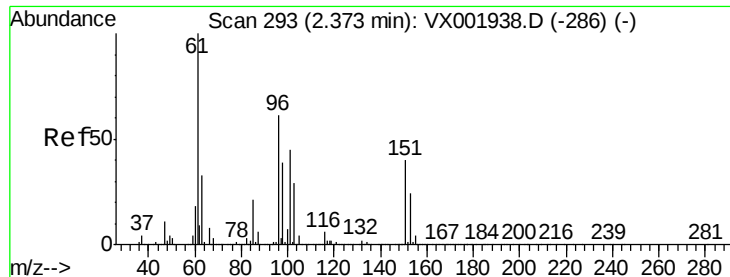
Tot Ion:142 Resp: 1486
Ion Ratio Lower Upper
142 100
127 48.2 35.5 53.3
141 17.3 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.41 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.06 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

Tgt Ion: 59 Resp: 1082
Ion Ratio Lower Upper
59 100
57 33.1 8.9 13.3#





#12

1,1-Dichloroethene

Concen: 0.33 ug/l

RT: 2.38 min Scan# 294

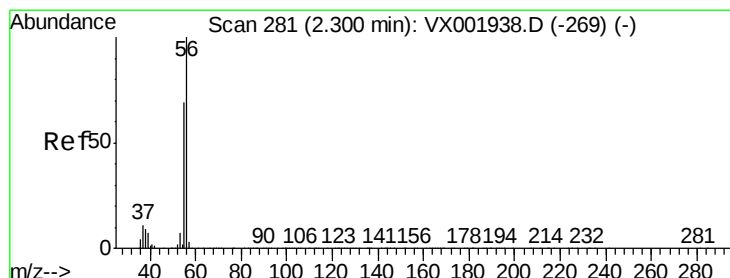
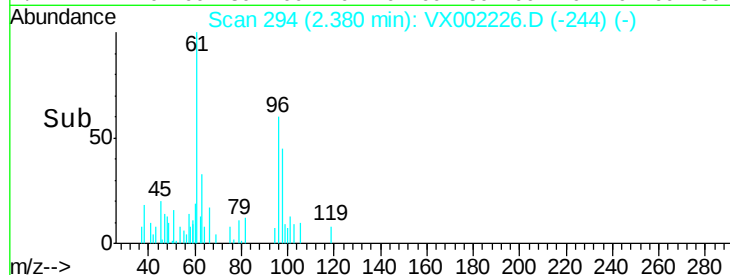
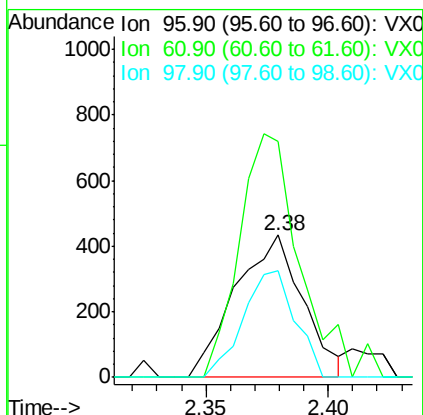
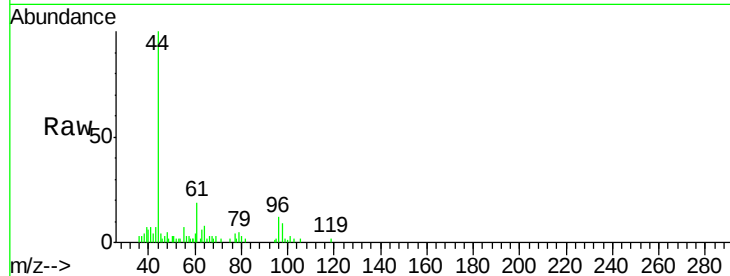
Delta R.T. 0.01 min

Lab File: VX002226.D

Acq: 01 Jun 2018 21:43

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	96	Resp:	835
Ion	Ratio	Lower	Upper
96	100		
61	166.3	131.7	197.5
98	75.1	51.6	77.4



#13

Acrolein

Concen: 0.47 ug/l

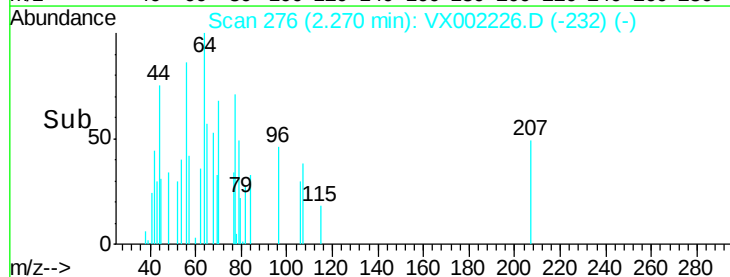
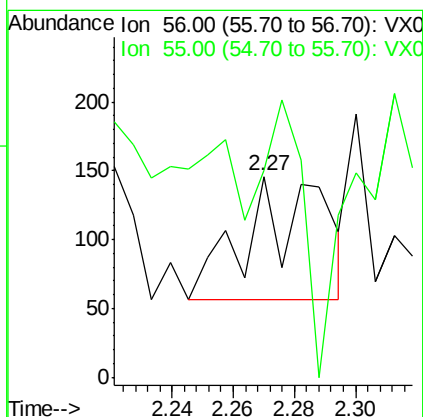
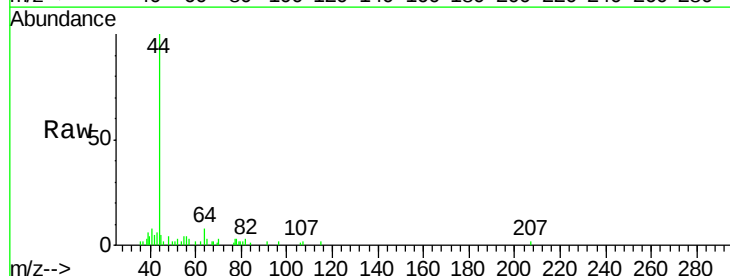
RT: 2.27 min Scan# 276

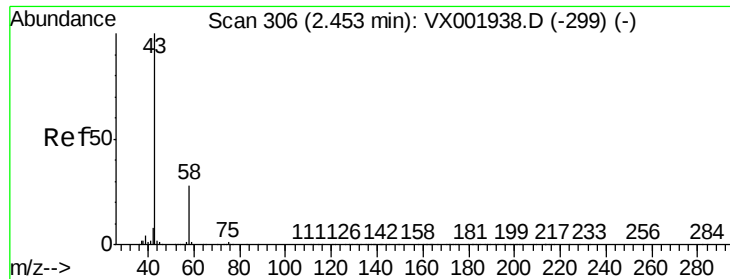
Delta R.T. -0.03 min

Lab File: VX002226.D

Acq: 01 Jun 2018 21:43

Tgt Ion:	56	Resp:	157
Ion	Ratio	Lower	Upper
56	100		
55	118.5	56.8	85.2#

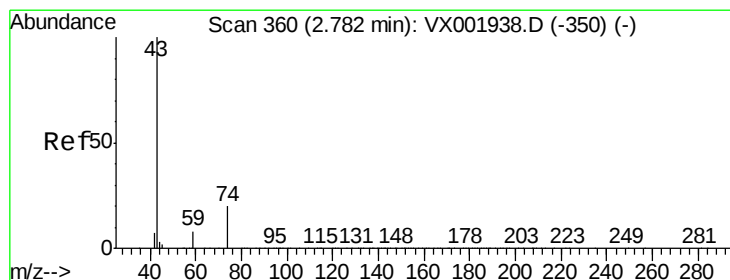
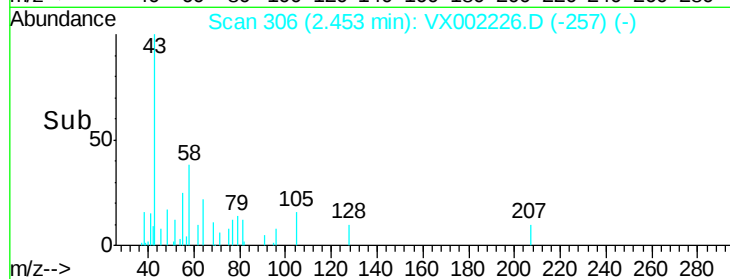
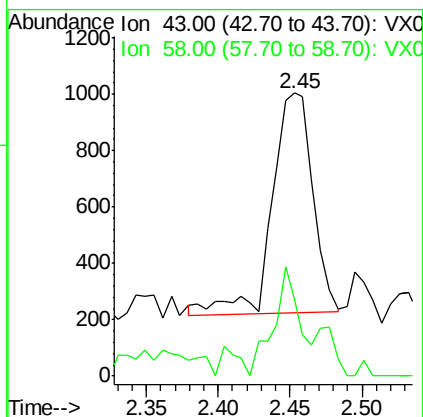
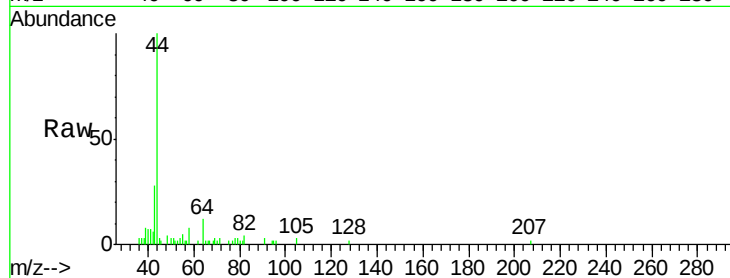




#16
Acetone
Concen: 1.02 ug/l
RT: 2.45 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

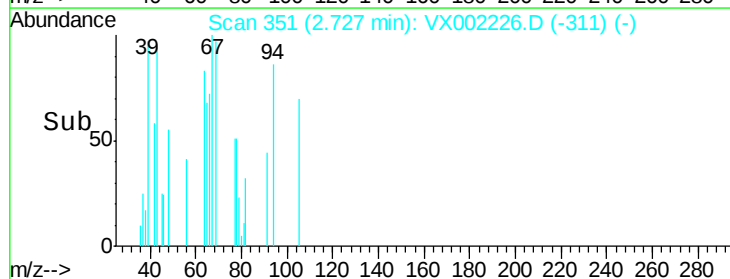
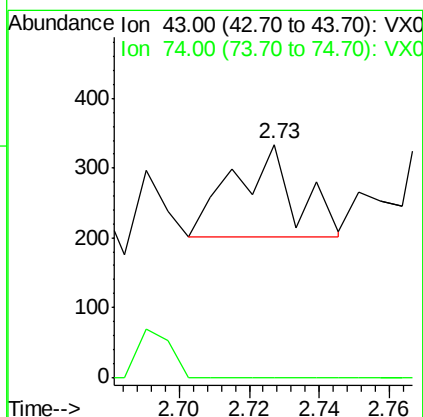
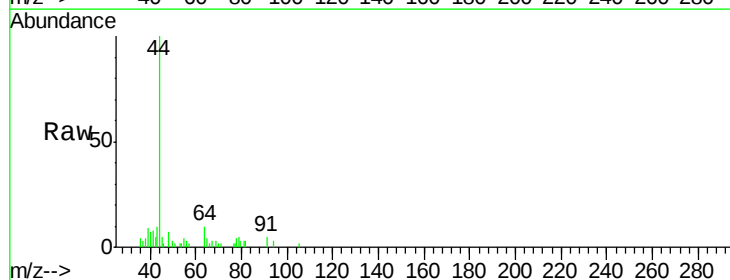
Instrument :
MSVOA_X
ClientSampled :

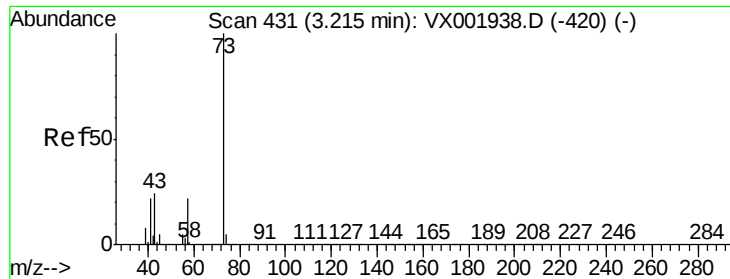
Tot Ion: 43 Resp: 1536
Ion Ratio Lower Upper
43 100
58 28.2 22.3 33.5



#18
Methyl Acetate
Concen: Below Cal
RT: 2.73 min Scan# 351
Delta R.T. -0.05 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

Tgt Ion: 43 Resp: 162
Ion Ratio Lower Upper
43 100
74 0.0 16.8 25.2#



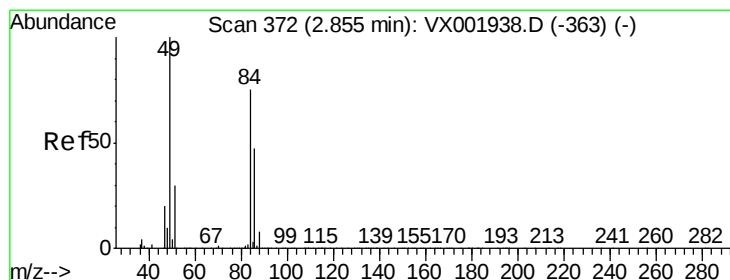
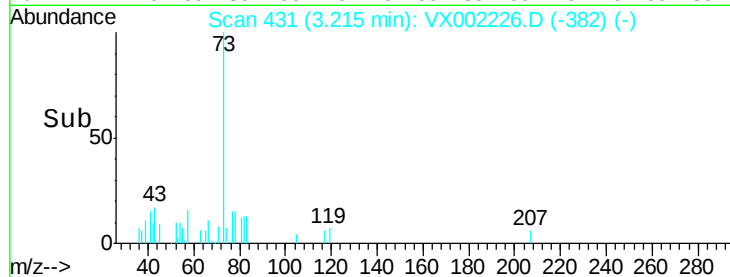
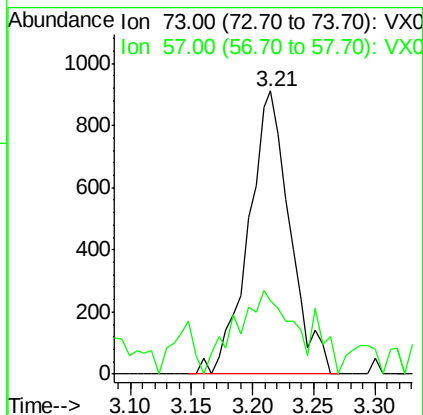
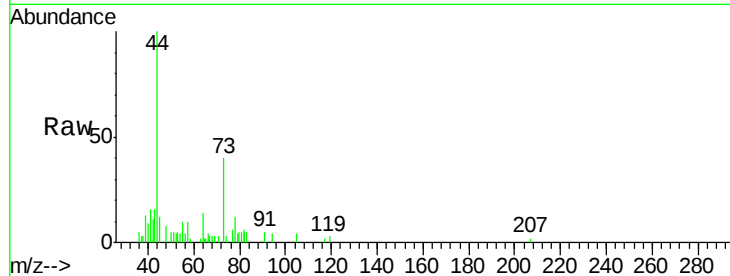


#19

Methyl tert-butyl Ether
 Concen: 0.22 ug/l
 RT: 3.21 min Scan# 431
 Delta R.T. 0.00 min
 Lab File: VX002226.D
 Acq: 01 Jun 2018 21:43

Instrument :
 MSVOA_X
 ClientSampleId :

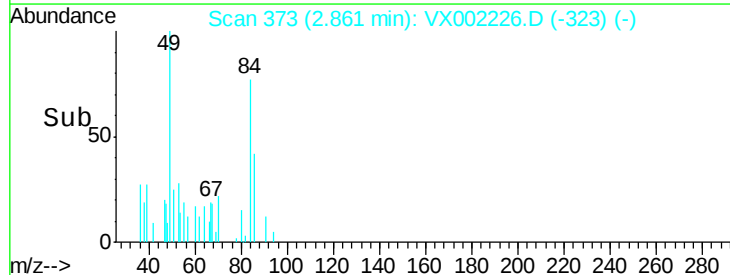
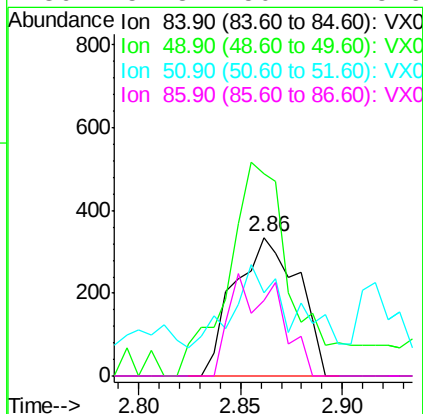
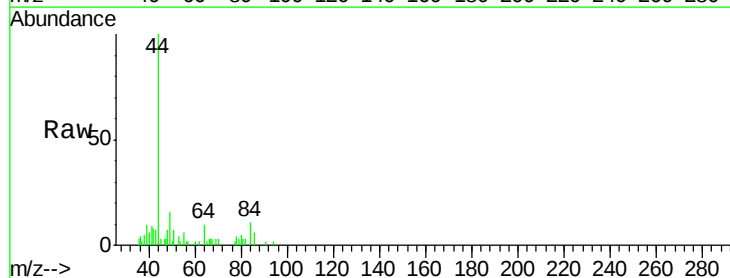
Tot Ion: 73 Resp: 2152
 Ion Ratio Lower Upper
 73 100
 57 25.8 17.4 26.0

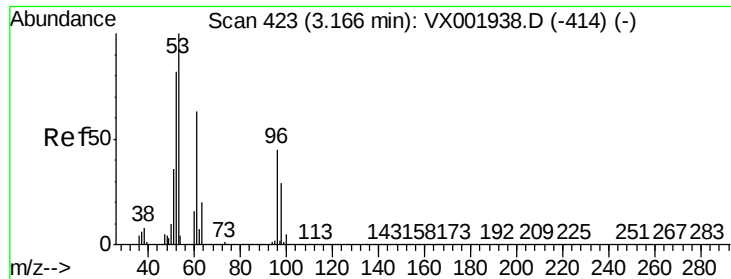


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.86 min Scan# 373
 Delta R.T. 0.01 min
 Lab File: VX002226.D
 Acq: 01 Jun 2018 21:43

Tgt Ion: 84 Resp: 736
 Ion Ratio Lower Upper
 84 100
 49 122.9 107.2 160.8
 51 39.6 32.4 48.6
 86 54.8 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

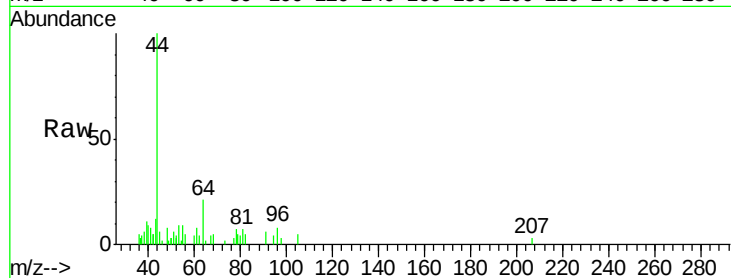
Lab File: VX002226.D

Acq: 01 Jun 2018 21:43

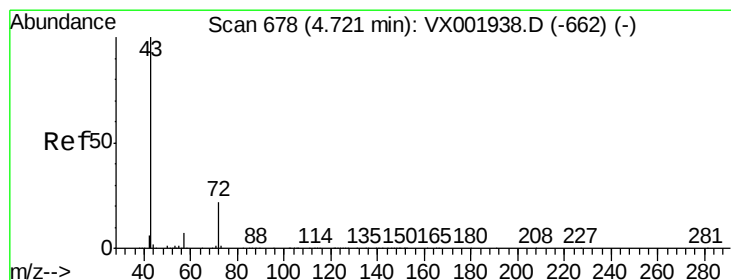
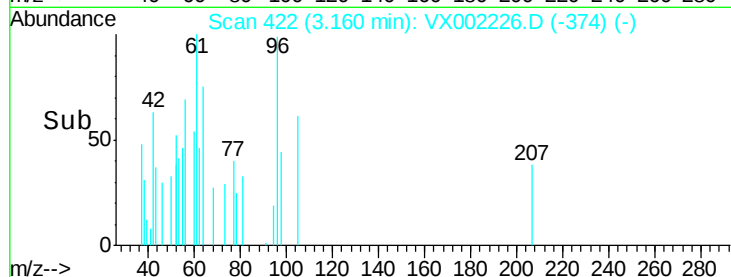
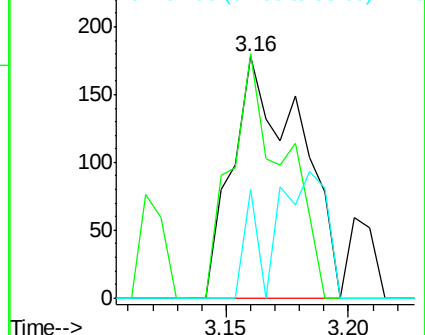
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 342

Ion	Ratio	Lower	Upper
96	100		
61	101.1	113.3	169.9#
98	44.9	51.7	77.5#



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.21 ug/l

RT: 4.71 min Scan# 676

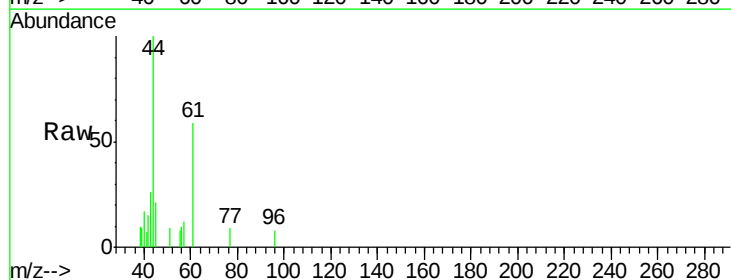
Delta R.T. -0.01 min

Lab File: VX002226.D

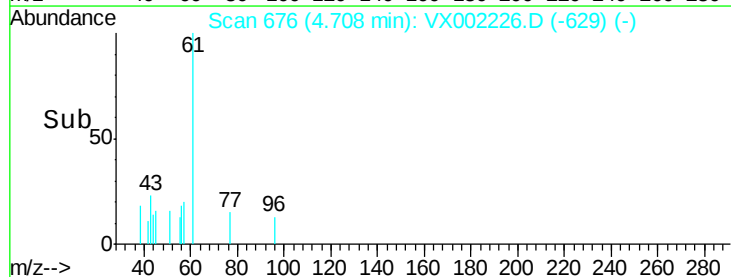
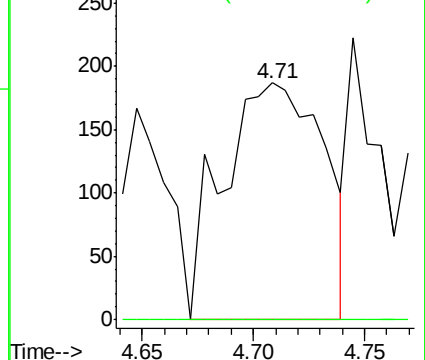
Acq: 01 Jun 2018 21:43

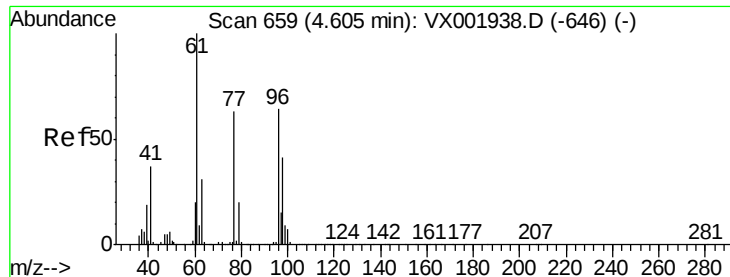
Tgt Ion: 43 Resp: 589

Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.9	26.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



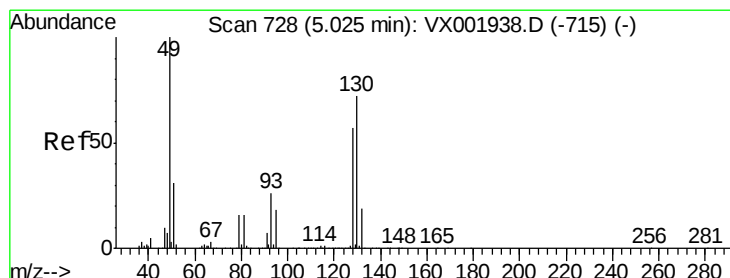
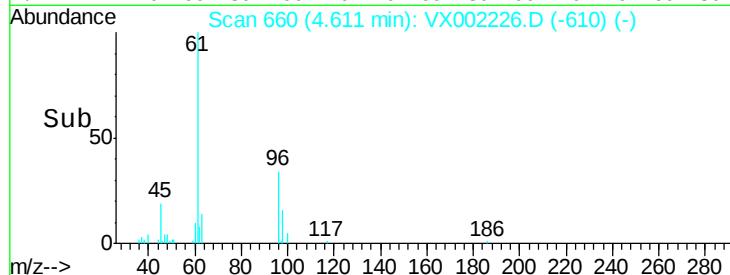
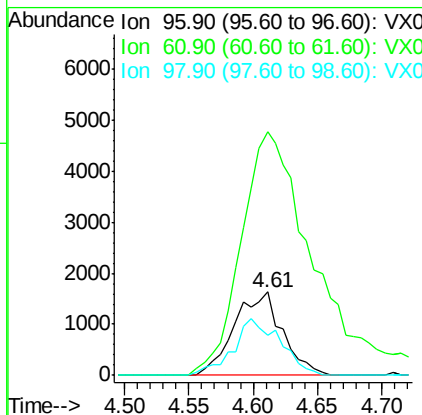
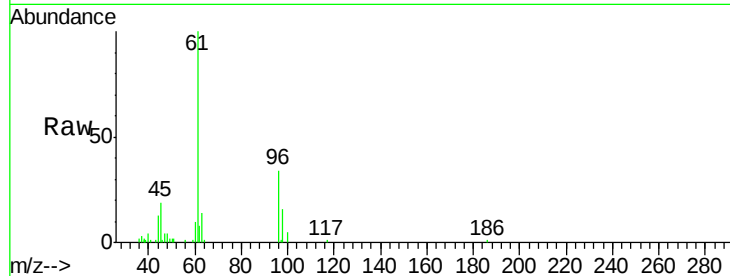


#27

cis-1,2-Dichloroethene
 Concen: 1.28 ug/l
 RT: 4.61 min Scan# 660
 Delta R.T. 0.01 min
 Lab File: VX002226.D
 Acq: 01 Jun 2018 21:43

Instrument :
 MSVOA_X
 ClientSampleId :

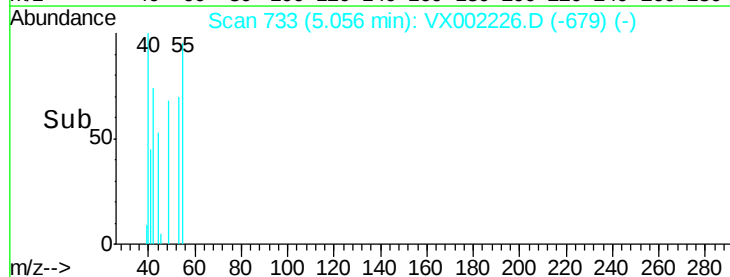
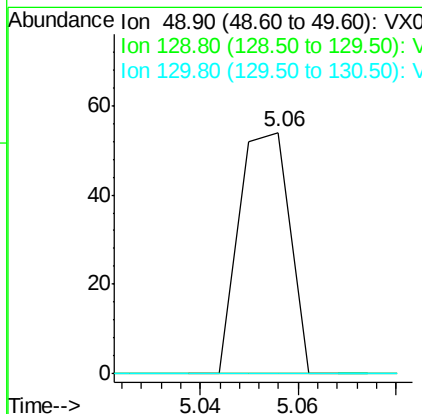
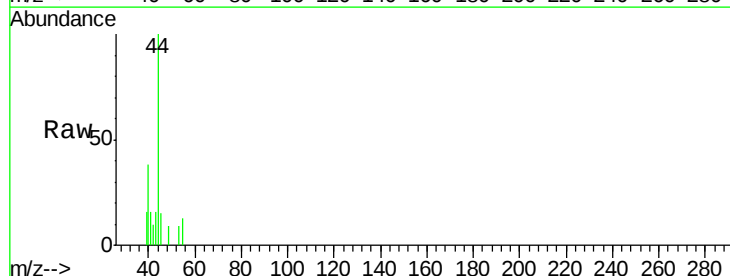
Tot Ion	Ratio	Lower	Upper
96	100		
61	440.4	0.0	348.4#
98	67.2	0.0	128.6

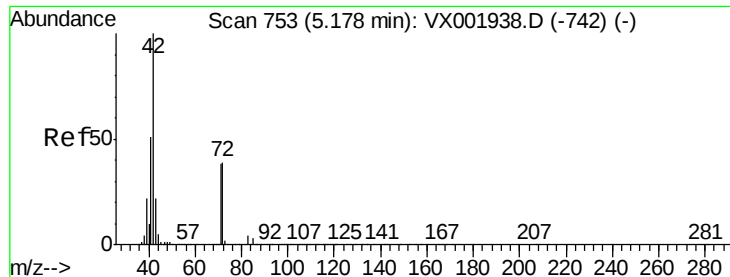


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.06 min Scan# 733
 Delta R.T. 0.03 min
 Lab File: VX002226.D
 Acq: 01 Jun 2018 21:43

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#





#29

Tetrahydrofuran

Concen: 0.20 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX002226.D

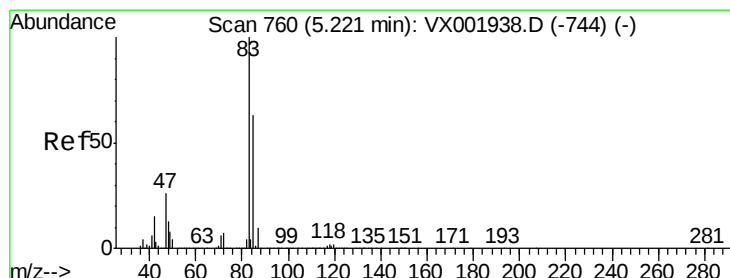
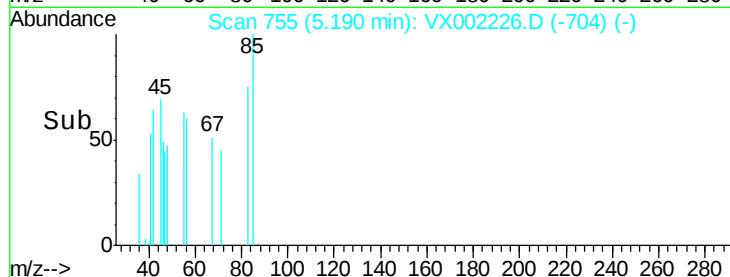
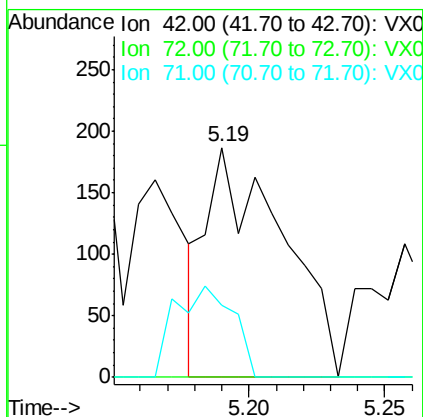
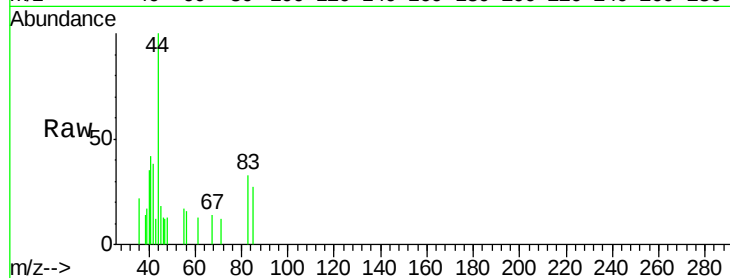
Acq: 01 Jun 2018 21:43

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	42	Resp:	361
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.0#
71	30.5	29.5	44.3



#30

Chloroform

Concen: 0.28 ug/l

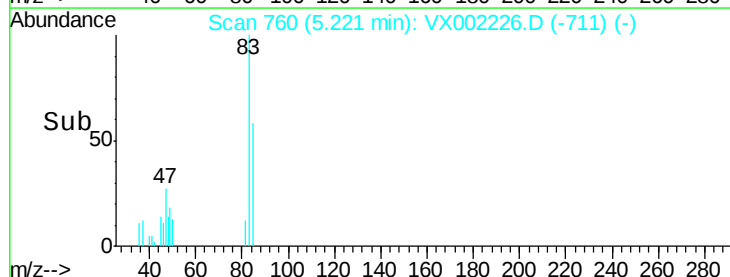
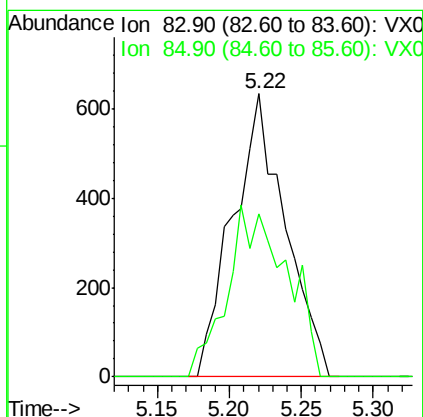
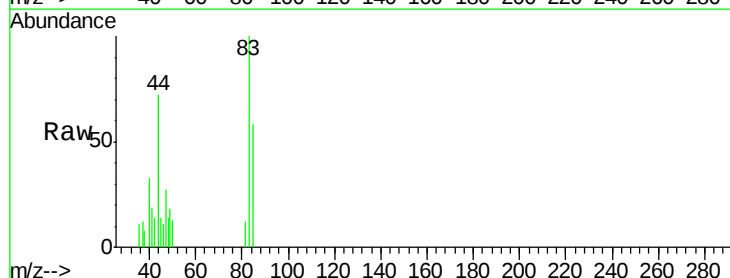
RT: 5.22 min Scan# 760

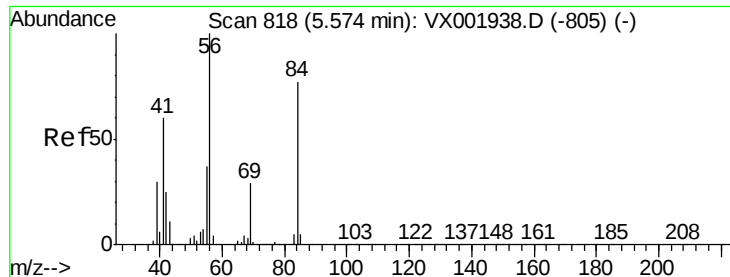
Delta R.T. 0.00 min

Lab File: VX002226.D

Acq: 01 Jun 2018 21:43

Tgt Ion:	83	Resp:	1605
Ion	Ratio	Lower	Upper
83	100		
85	57.5	50.9	76.3

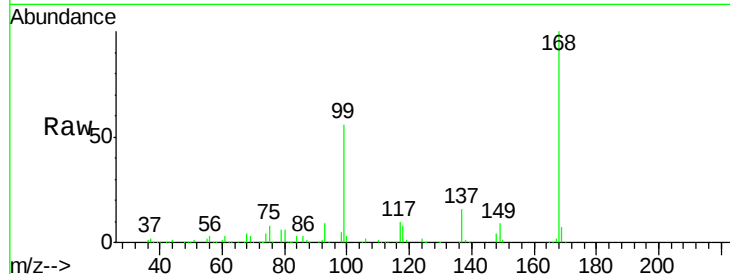




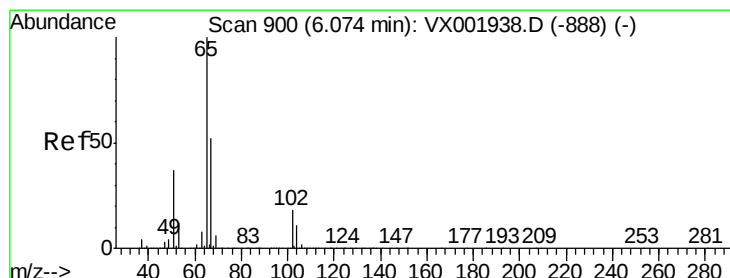
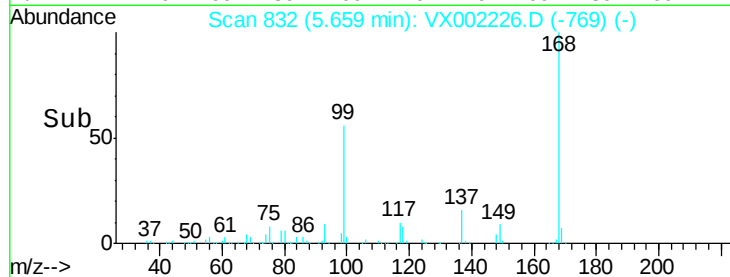
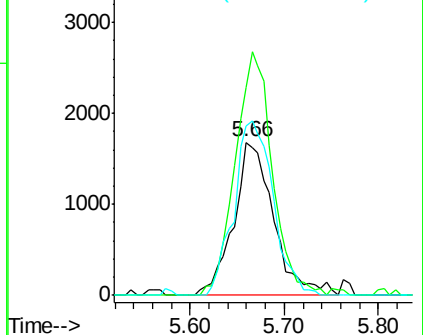
#31
Cyclohexane
Concen: 0.93 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.09 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 5011
Ion Ratio Lower Upper
56 100
69 135.1 23.1 34.7#
84 110.1 62.0 93.0#

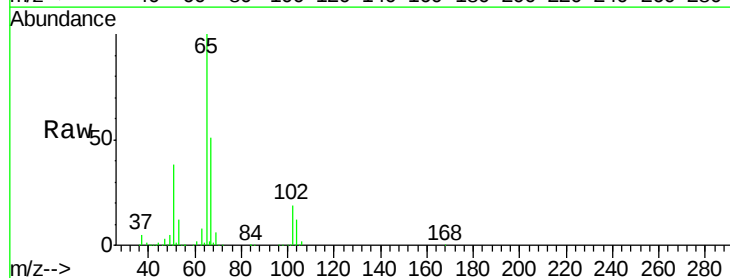


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

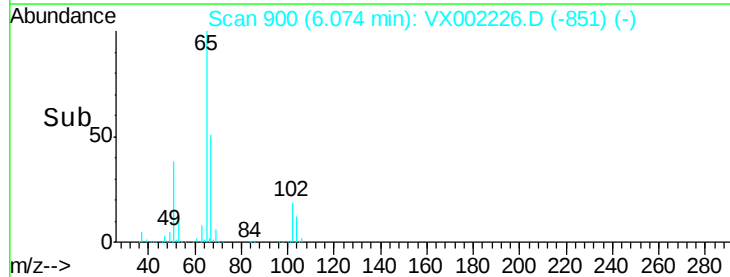
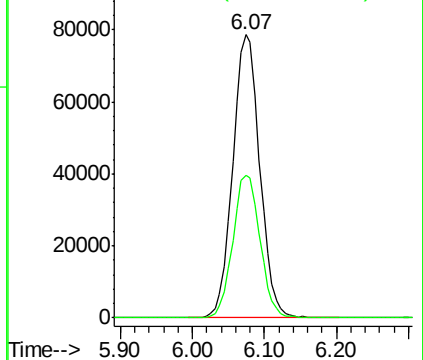


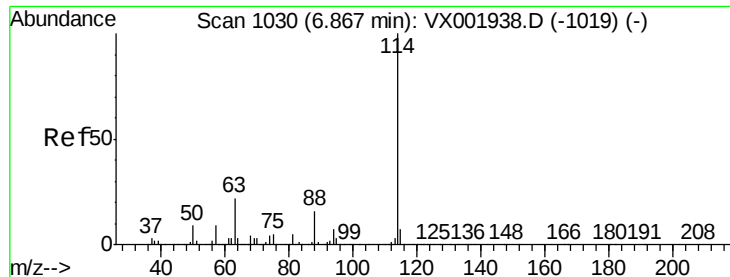
#33
1,2-Dichloroethane-d4
Concen: 52.43 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

Tgt Ion: 65 Resp: 204495
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: VX002226.D

Acq: 01 Jun 2018 21:43

Instrument :

MSVOA_X

ClientSampleId :

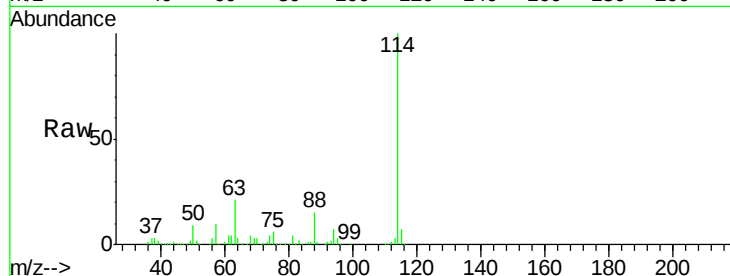
Tot Ion:114 Resp: 317705

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.2

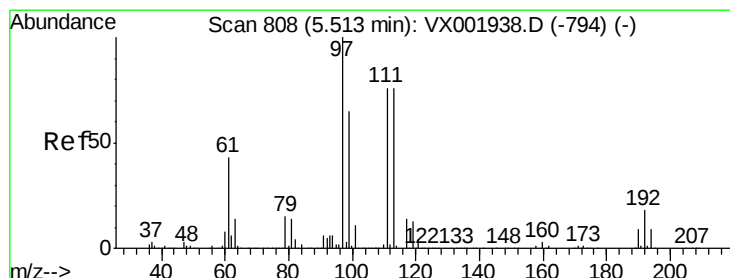
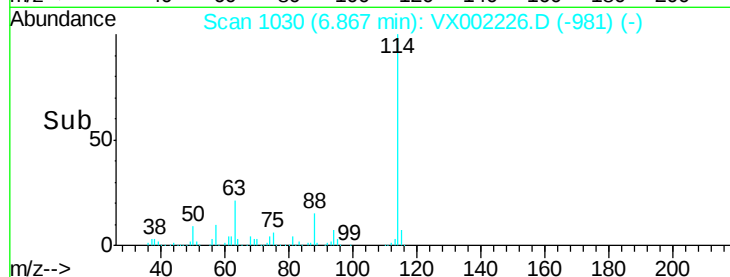
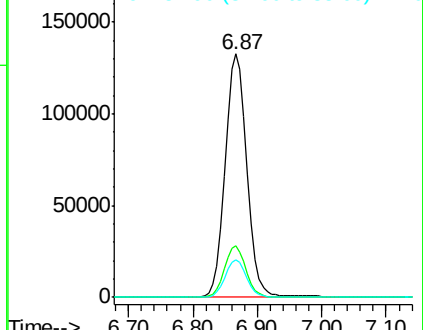
88 15.2 0.0 31.6



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: 46.58 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002226.D

Acq: 01 Jun 2018 21:43

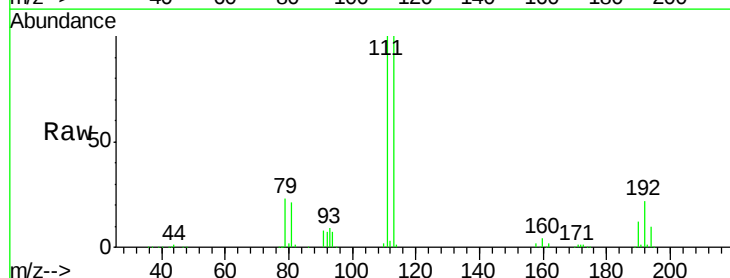
Tgt Ion:113 Resp: 147984

Ion Ratio Lower Upper

113 100

111 101.0 82.0 123.0

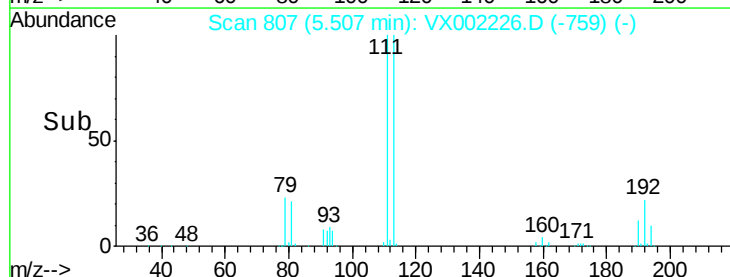
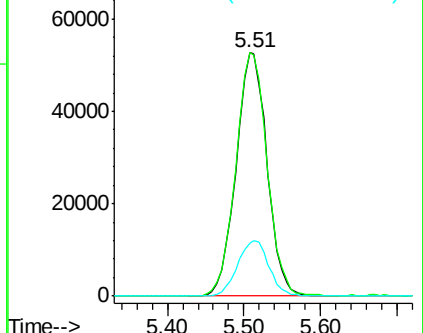
192 22.9 18.9 28.3

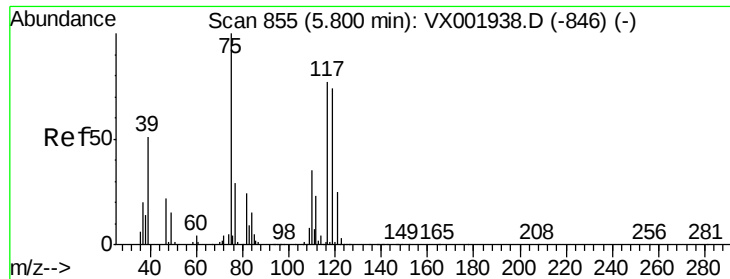


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

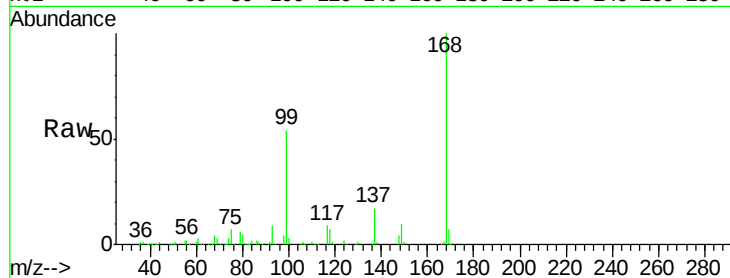




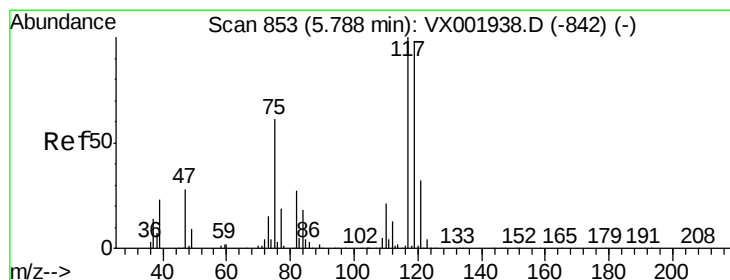
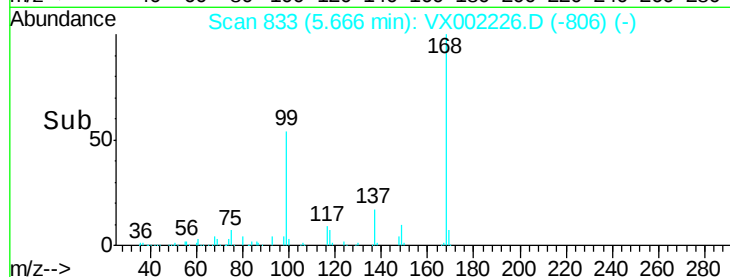
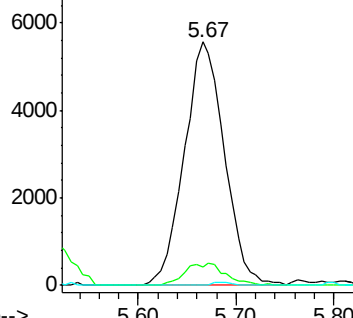
#36
 1,1-Dichloropropene
 Concen: 3.58 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002226.D
 Acq: 01 Jun 2018 21:43

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	75	Resp	15808
Ion Ratio	Lower	Upper	
75	100		
110	9.3	17.4	52.2#
77	0.6	24.4	36.6#

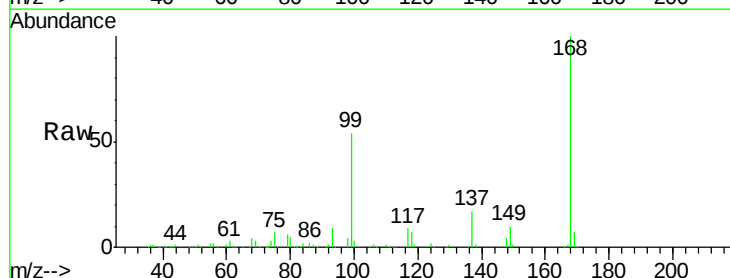


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

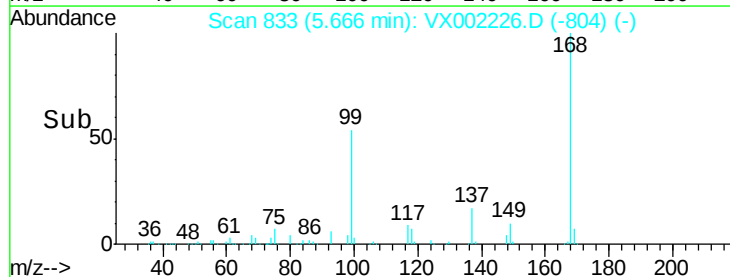
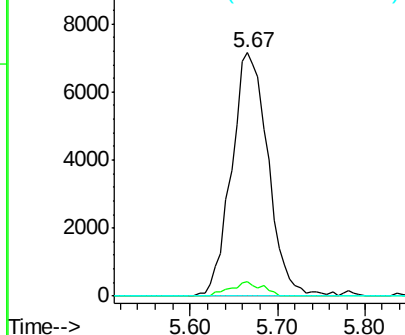


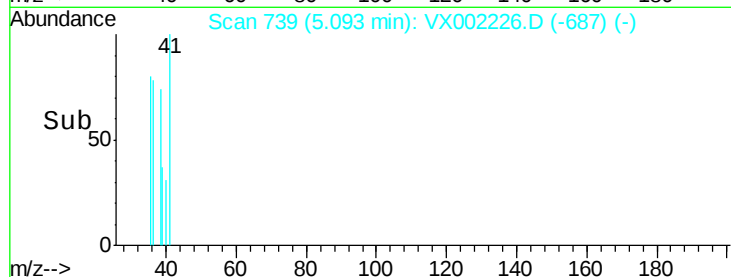
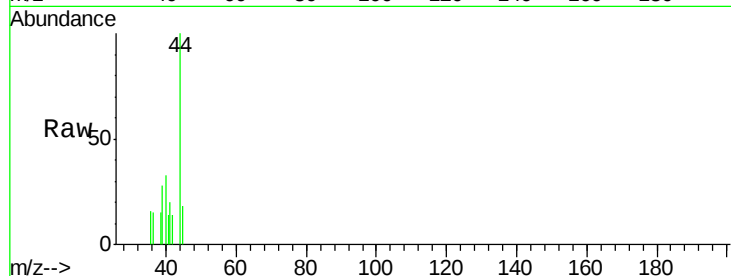
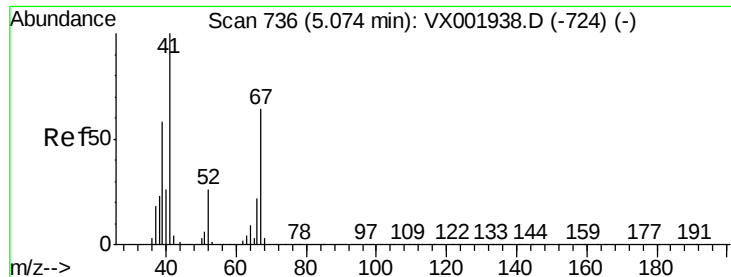
#38
 Carbon Tetrachloride
 Concen: 4.02 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002226.D
 Acq: 01 Jun 2018 21:43

Tgt Ion	117	Resp	20710
Ion Ratio	Lower	Upper	
117	100		
119	5.7	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

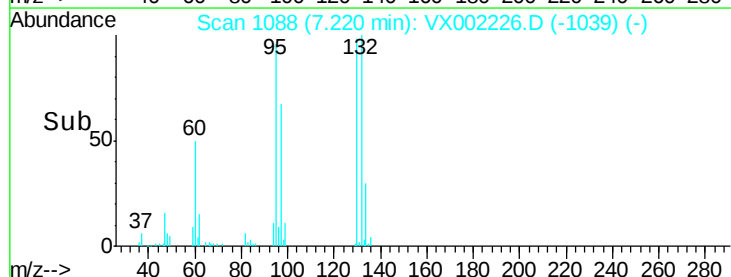
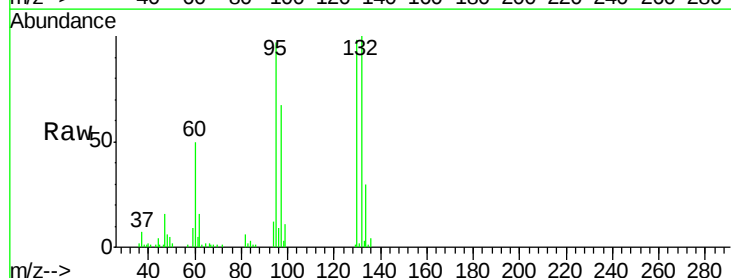
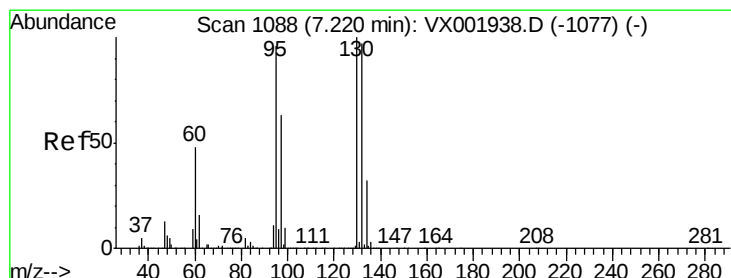
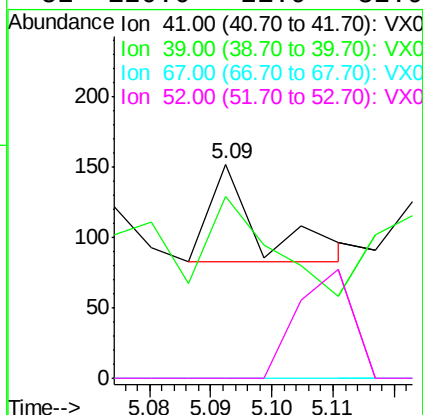




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.09 min Scan# 739
Delta R.T. 0.02 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

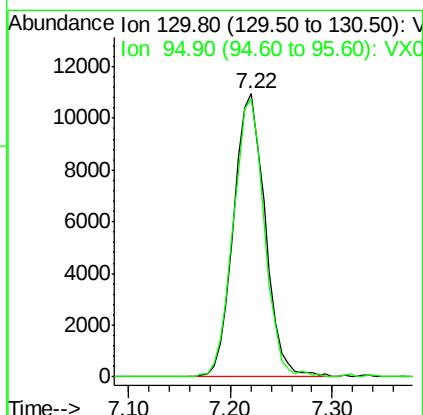
Instrument :
MSVOA_X
ClientSampleId :

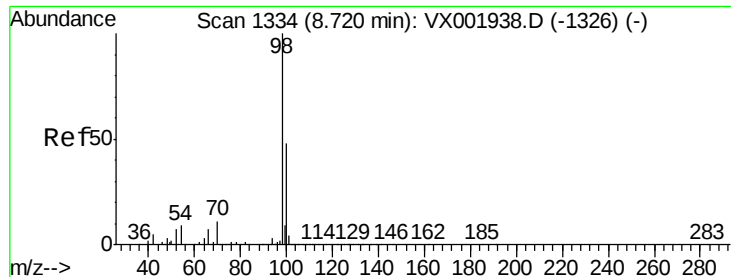
Tot Ion:	41	Resp:	40
Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.0	69.0#
67	0.0	50.6	75.8#
52	120.0	21.9	32.9#



#44
Trichloroethene
Concen: 6.22 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

Tgt Ion:	130	Resp:	23457
Ion	Ratio	Lower	Upper
130	100		
95	98.4	0.0	192.0

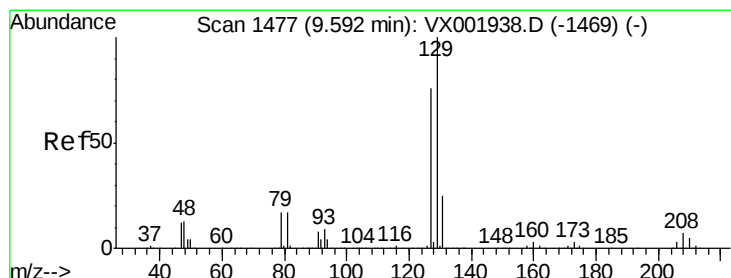
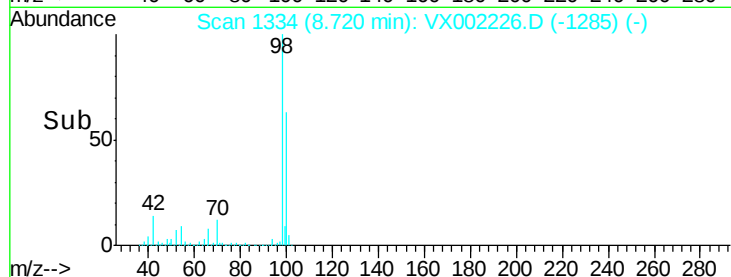
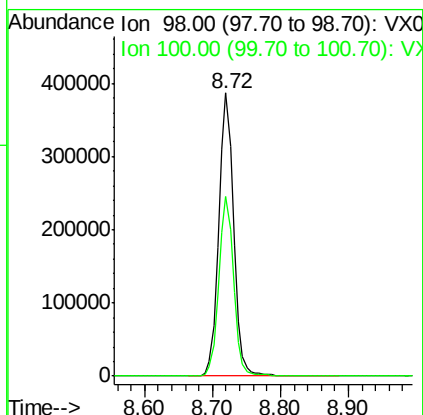
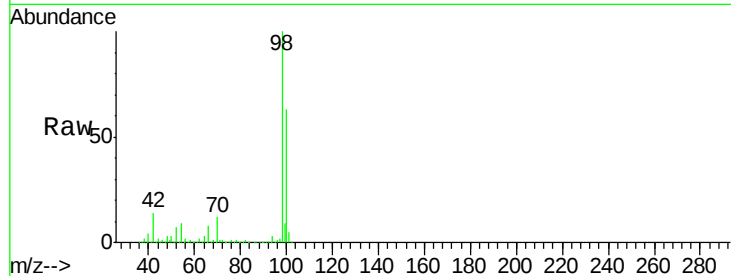




#50
Toluene-d8
Concen: 50.95 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

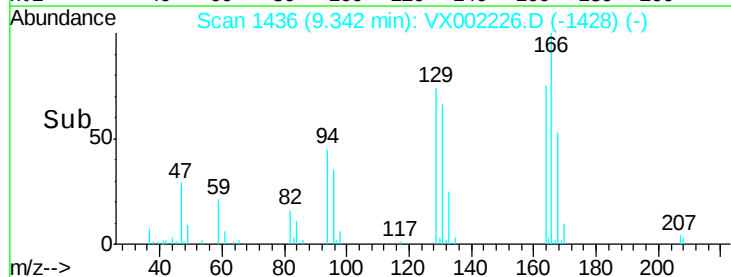
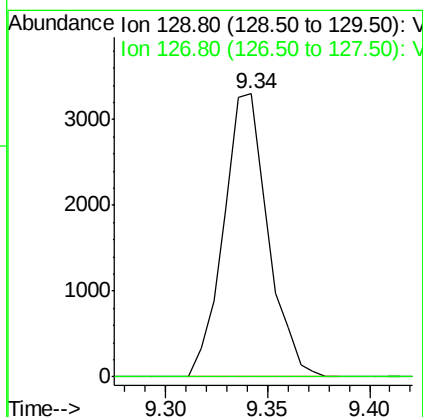
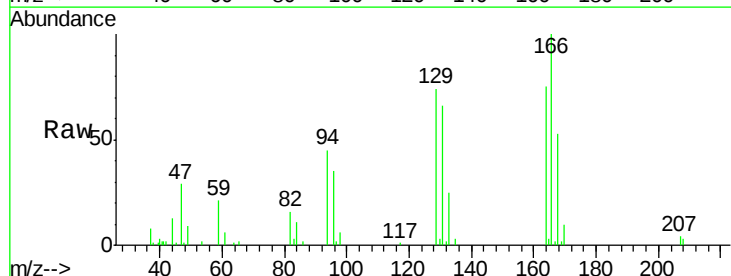
Instrument :
MSVOA_X
ClientSampled :

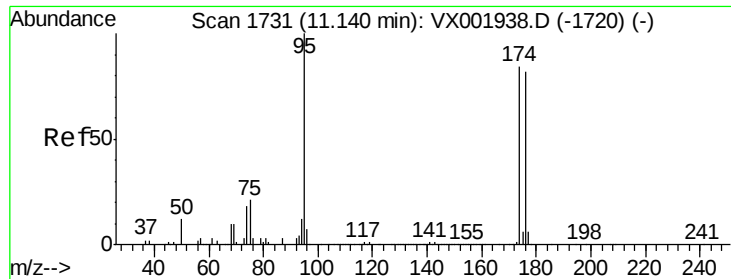
Tot Ion: 98 Resp: 586085
Ion Ratio Lower Upper
98 100
100 63.3 51.5 77.3



#60
Dibromochloromethane
Concen: 1.22 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.25 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

Tgt Ion: 129 Resp: 4959
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#

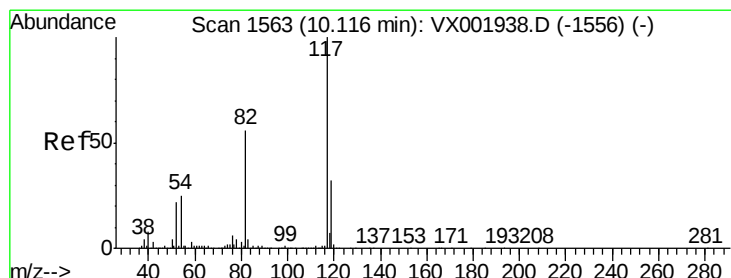
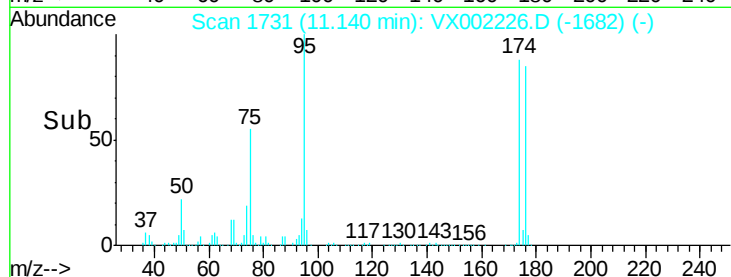
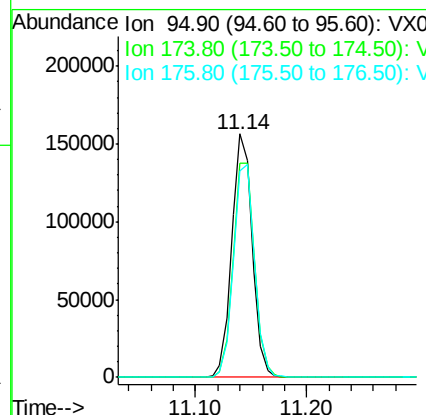
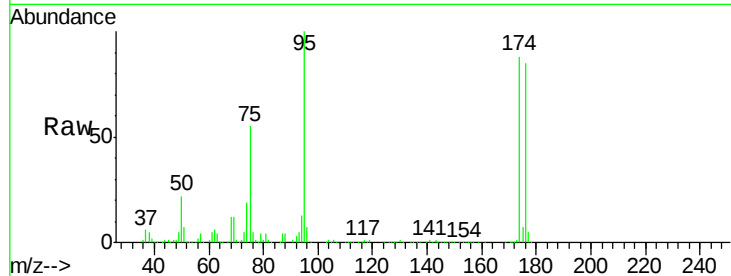




#62
4-Bromofluorobenzene
Concen: 44.27 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

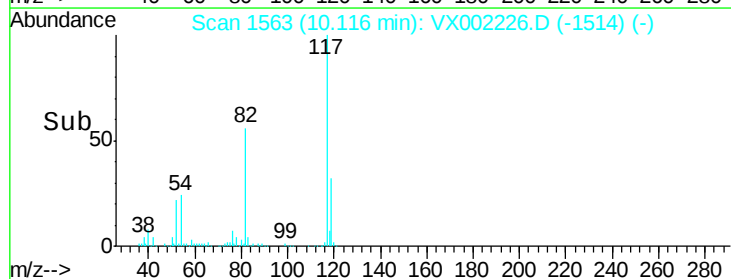
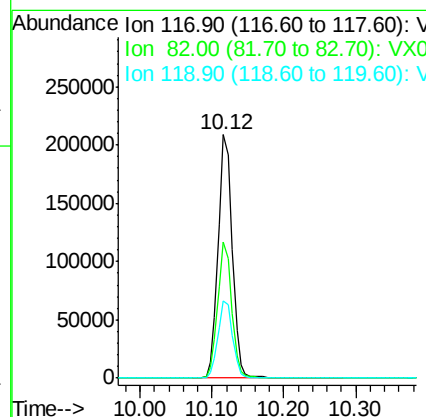
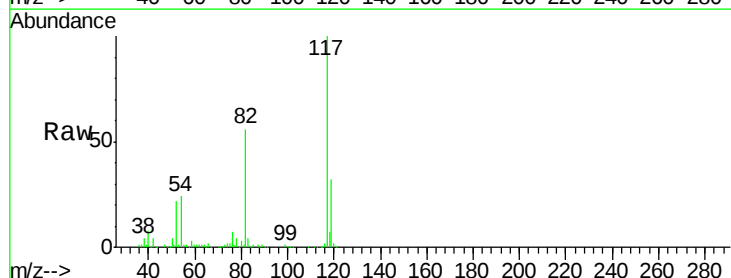
Instrument :
MSVOA_X
ClientSampleId :

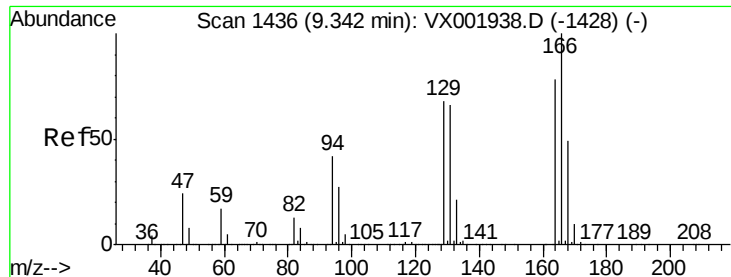
Tot Ion	Ratio	Lower	Upper
95	100		
174	91.8	0.0	178.8
176	89.9	0.0	175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.7	44.8	67.2
119	31.8	25.5	38.3

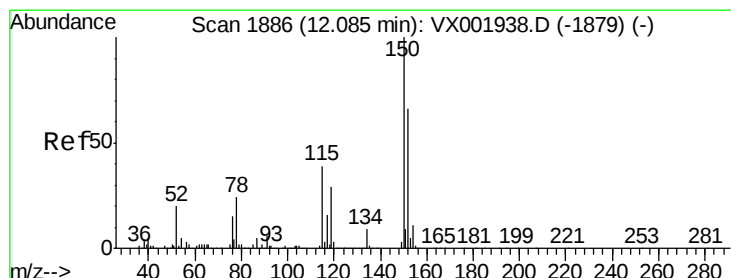
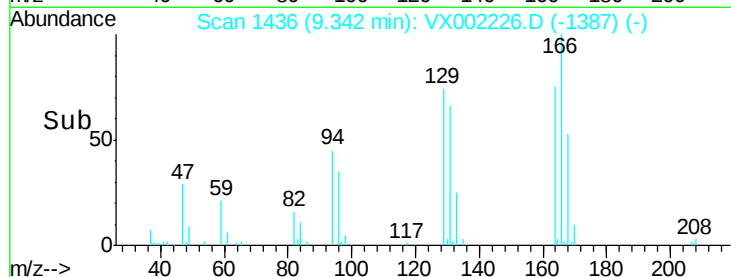
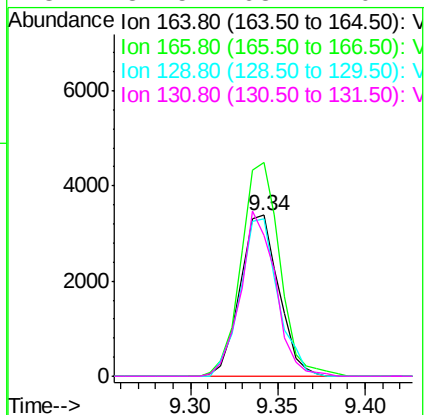
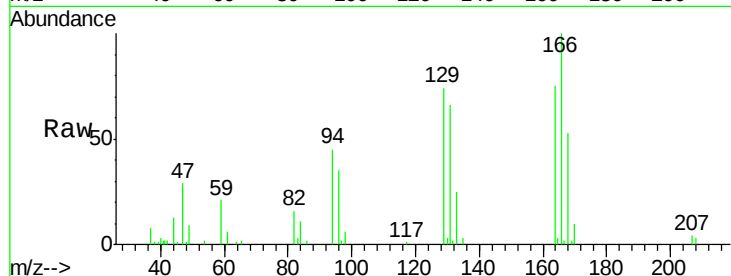




#64
Tetrachloroethene
Concen: 1.27 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.00 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

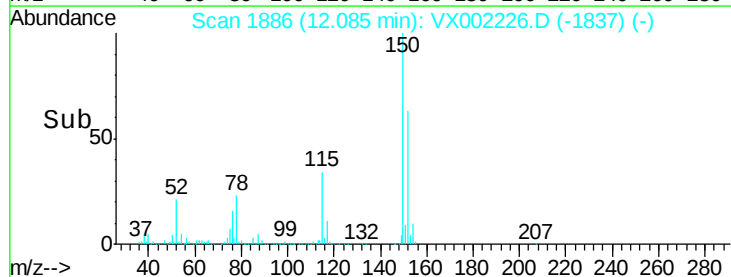
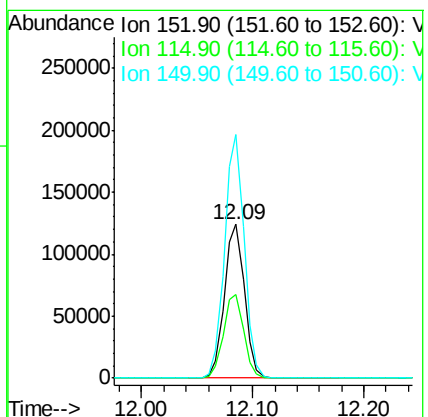
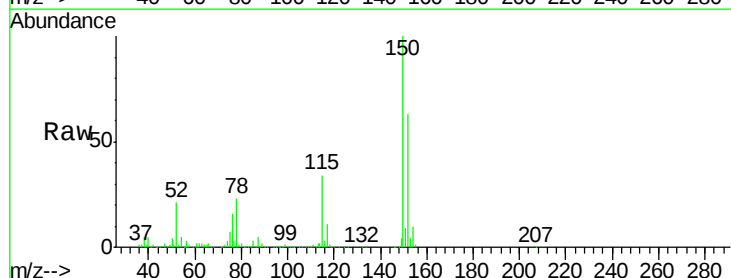
Instrument :
MSVOA_X
ClientSampleId :

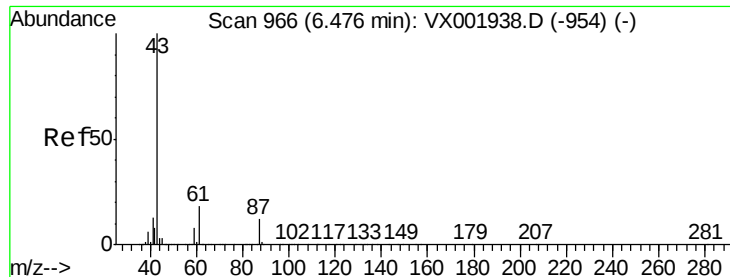
Tot Ion:164 Resp: 5199
Ion Ratio Lower Upper
164 100
166 132.8 102.7 154.1
129 97.7 70.3 105.5
131 87.5 68.2 102.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002226.D
Acq: 01 Jun 2018 21:43

Tgt Ion:152 Resp: 154923
Ion Ratio Lower Upper
152 100
115 55.1 42.3 126.8
150 154.7 0.0 351.0





#74

N-amvl acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX002226.D

Acq: 01 Jun 2018 21:43

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 349

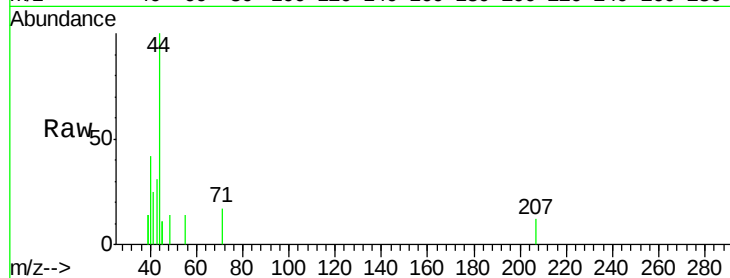
Ion Ratio Lower Upper

43 100

70 6.0 0.1 0.1#

55 35.0 0.1 0.1#

61 0.0 14.5 21.7#

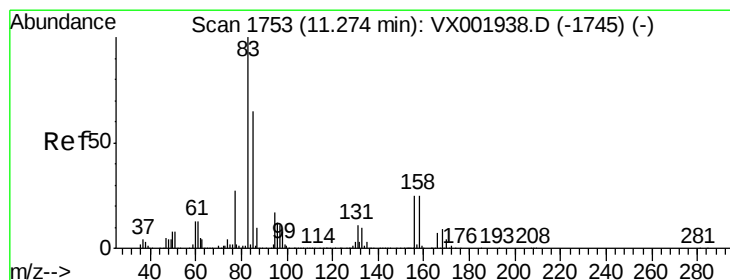
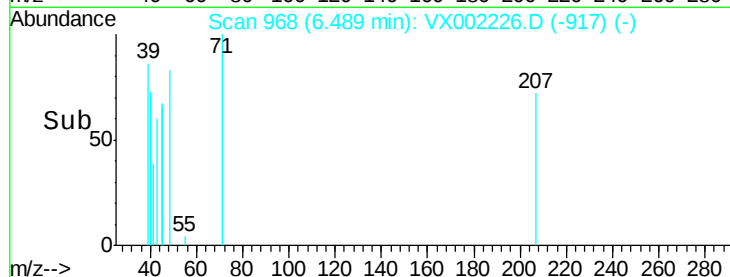
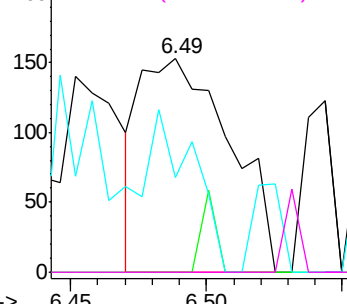


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.15 min Scan# 1732

Delta R.T. -0.13 min

Lab File: VX002226.D

Acq: 01 Jun 2018 21:43

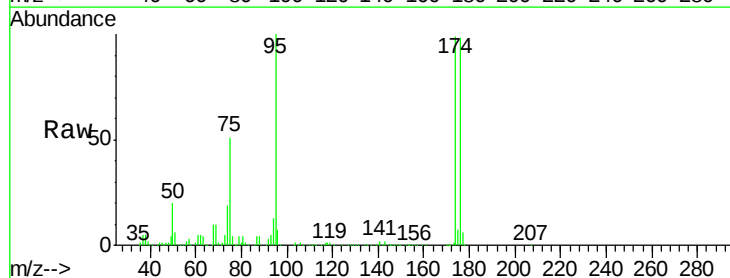
Tgt Ion: 83 Resp: 283

Ion Ratio Lower Upper

83 100

131 134.3 5.7 17.0#

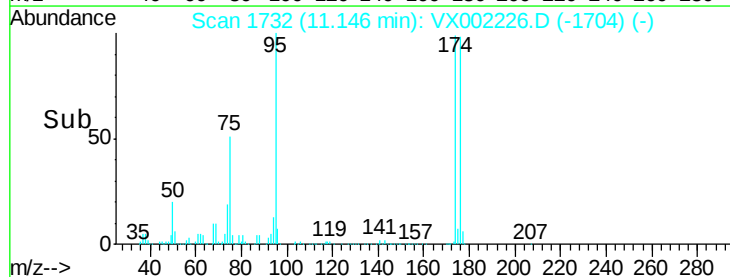
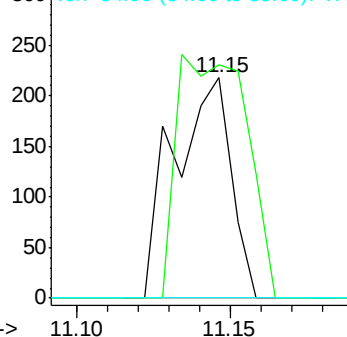
85 0.0 32.6 97.7#

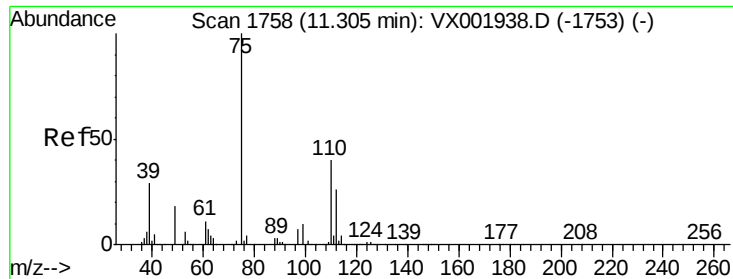


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

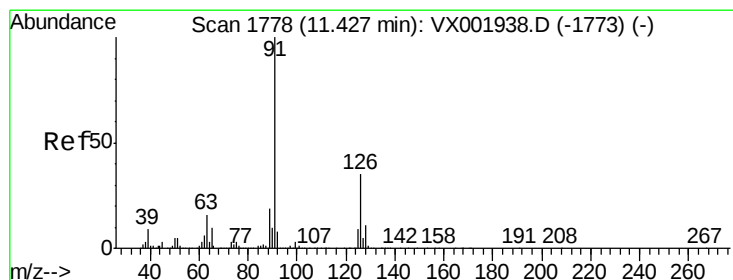
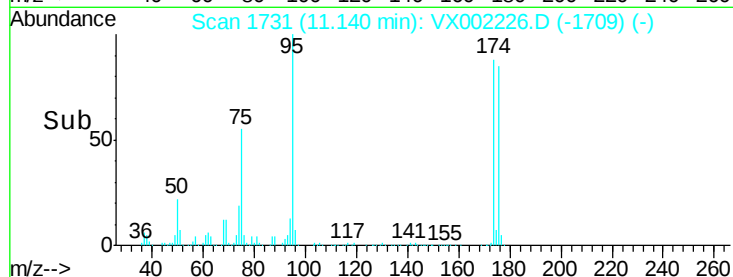
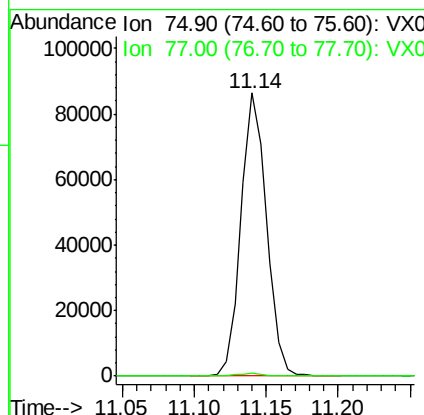
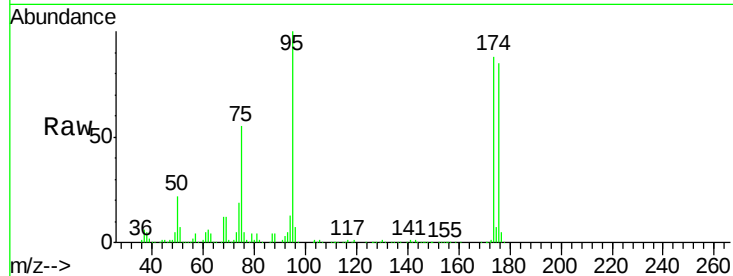




#76
 1,2,3-Trichloropropane
 Concen: 28.84 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002226.D
 Acq: 01 Jun 2018 21:43

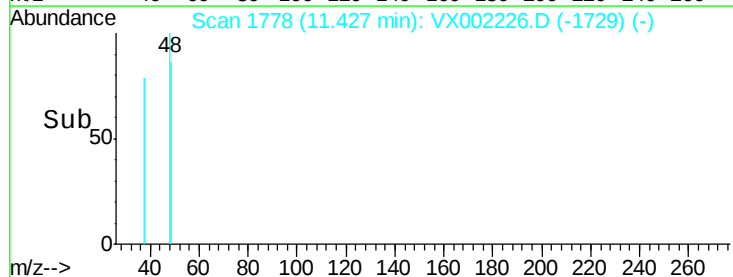
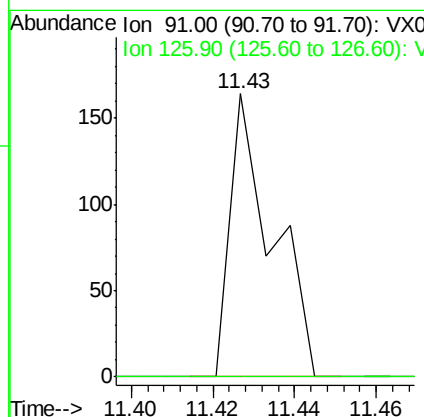
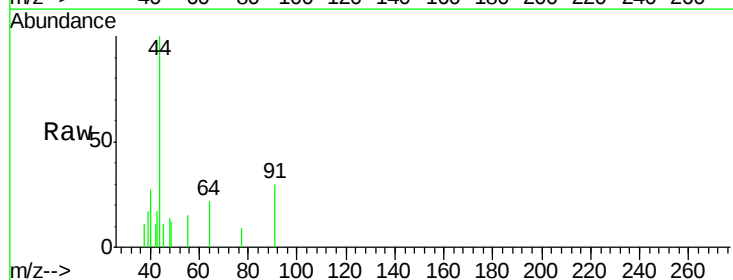
Instrument :
 MSVOA_X
 ClientSampleId :

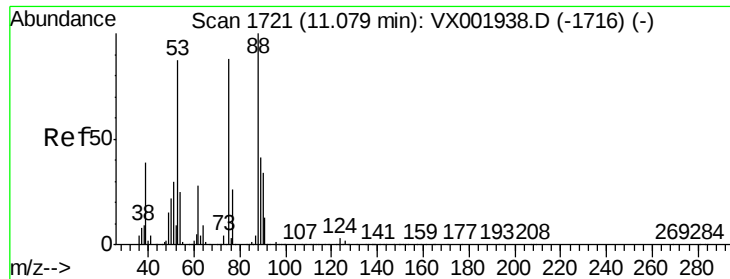
Tot Ion: 75 Resp: 107320
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.43 min Scan# 1778
 Delta R.T. 0.00 min
 Lab File: VX002226.D
 Acq: 01 Jun 2018 21:43

Tgt Ion: 91 Resp: 118
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.4 52.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 69.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002226.D

Acq: 01 Jun 2018 21:43

Instrument :

MSVOA_X

ClientSampleId :

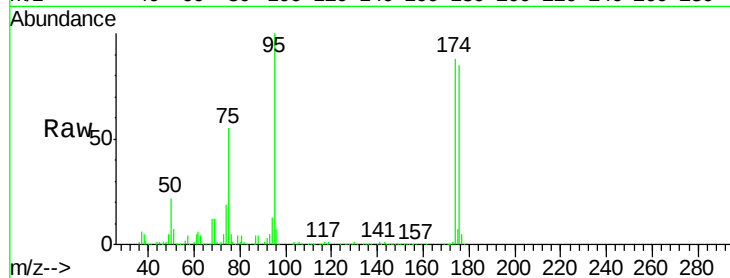
Tot Ion: 75 Resp: 107320

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

