

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042519\
 Data File : VX009164.D
 Acq On : 25 Apr 2019 15:55
 Operator : JC/SP
 Sample : K2555-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HW-7

Quant Time: Apr 26 04:37:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	210974	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	343383	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	299236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126593	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	142662	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
35) Dibromofluoromethane	5.50	113	104797	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
50) Toluene-d8	8.71	98	426643	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
62) 4-Bromofluorobenzene	11.13	95	141819	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	

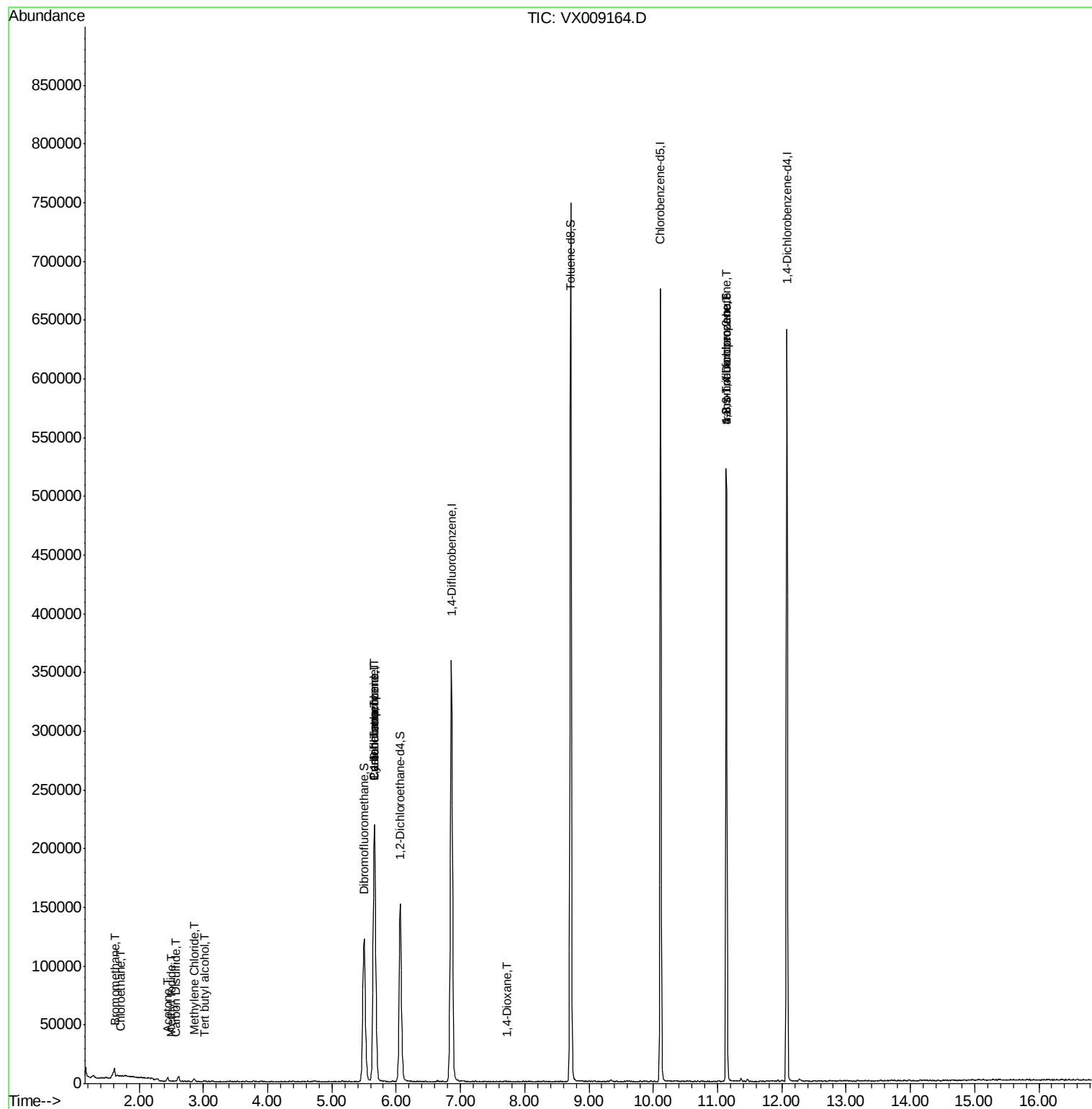
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	445	4.074	ug/l #	4
6) Chloroethane	1.71	64	362	0.212	ug/l #	44
10) Methyl Iodide	2.51	142	48	4.433	ug/l #	42
11) Tert butyl alcohol	3.03	59	388	0.588	ug/l	99
16) Acetone	2.45	43	3553	2.304	ug/l	93
17) Carbon Disulfide	2.57	76	545	1.333	ug/l #	66
20) Methylene Chloride	2.85	84	846	0.321	ug/l #	71
28) Bromochloromethane	5.01	49	43	Below Cal	#	21
31) Cyclohexane	5.67	56	4859	1.026	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17019	4.792	ug/l #	51
38) Carbon Tetrachloride	5.67	117	19897	6.609	ug/l #	17
49) 1,4-Dioxane	7.73	88	20	0.294	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	71622	23.170	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	71622	59.484	ug/l #	11

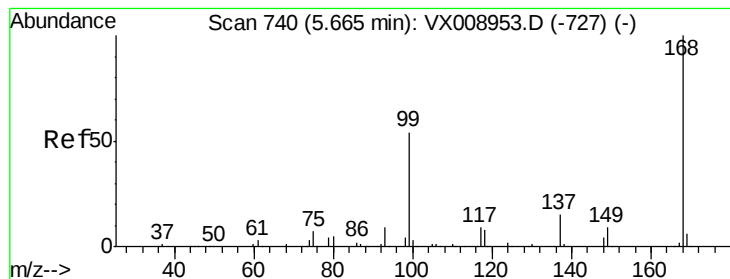
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009164.D

Acq: 25 Apr 2019 15:55

Instrument :

MSVOA_X

ClientSampleId :

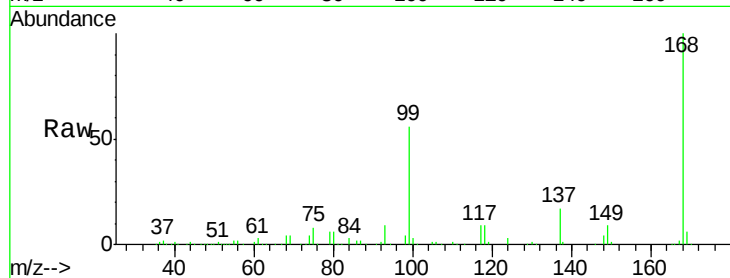
HW-7

Tot Ion:168 Resp: 210974

Ion Ratio Lower Upper

168 100

99 55.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

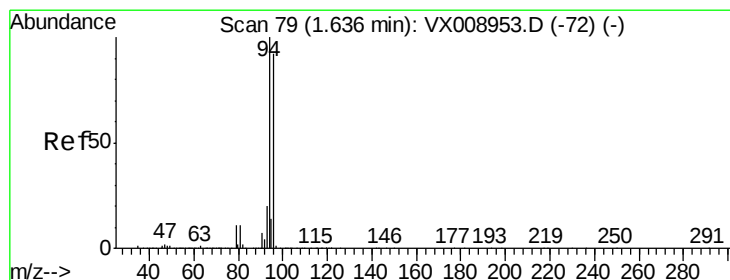
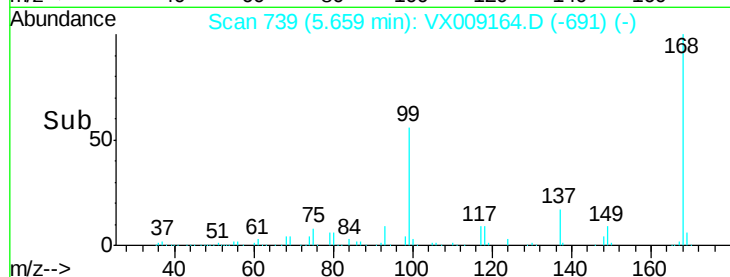
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.074 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.01 min

Lab File: VX009164.D

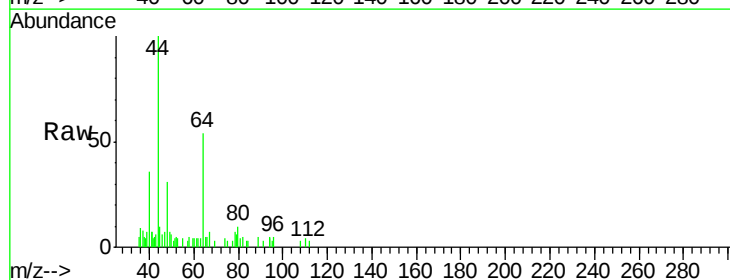
Acq: 25 Apr 2019 15:55

Tgt Ion: 94 Resp: 445

Ion Ratio Lower Upper

94 100

96 0.6 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

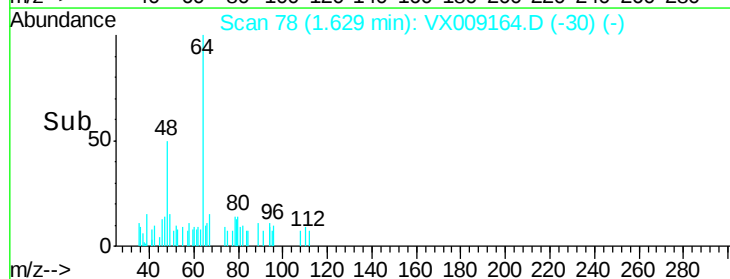
150

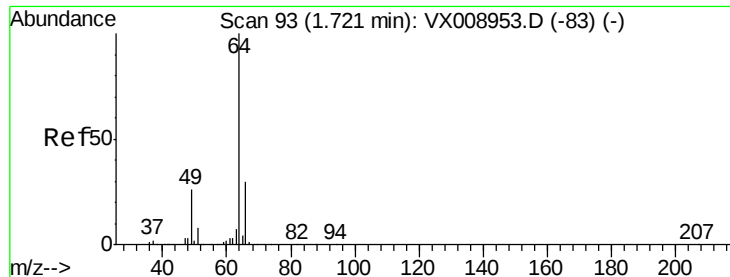
100

50

0

Time--> 1.60 1.65





#6

Chloroethane

Concen: 0.212 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.01 min

Lab File: VX009164.D

Acq: 25 Apr 2019 15:55

Instrument :

MSVOA_X

ClientSampleId :

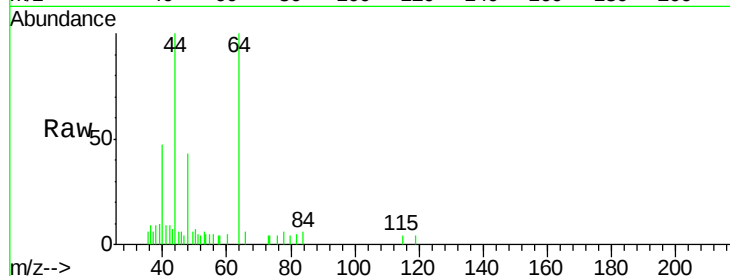
HW-7

Tot Ion: 64 Resp: 362

Ion Ratio Lower Upper

64 100

66 0.0 24.2 36.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

1.72

1.70

1.69

1.71

1.72

1.70

1.69

1.71

1.72

1.70

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1.70

1.69

1.71

1.72

1.70

1.69

1.71

1.72

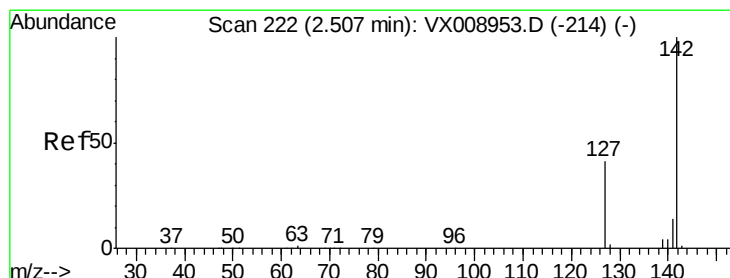
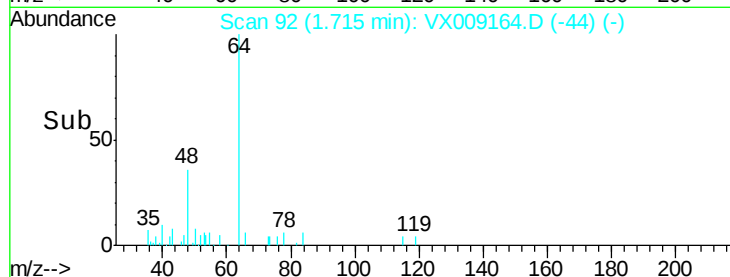
1.70

1.69

1.71

1.72

1.70



#10

Methyl Iodide

Concen: 4.433 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009164.D

Acq: 25 Apr 2019 15:55

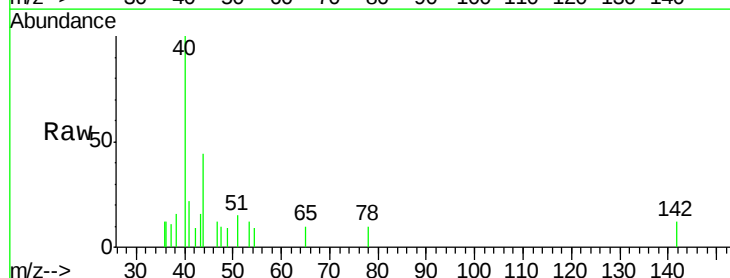
Tgt Ion: 142 Resp: 48

Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.51

2.52

2.50

2.48

2.51

2.52

2.50

2.48

2.51

2.52

2.50

2.48

2.51

2.52

2.50

2.48

2.51

2.52

2.50

2.48

2.51

2.52

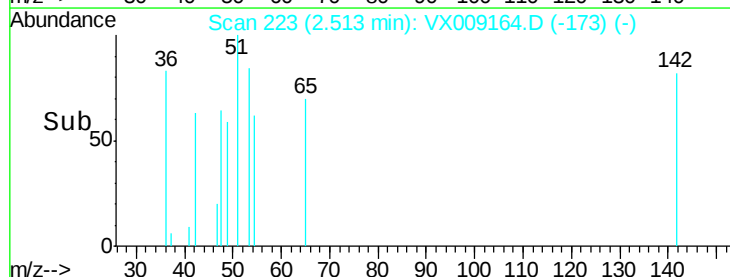
2.50

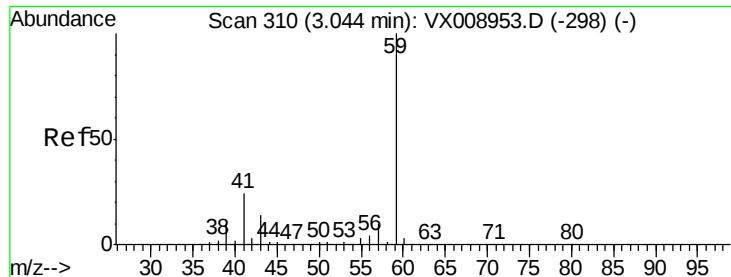
2.48

2.51

2.52

2.50

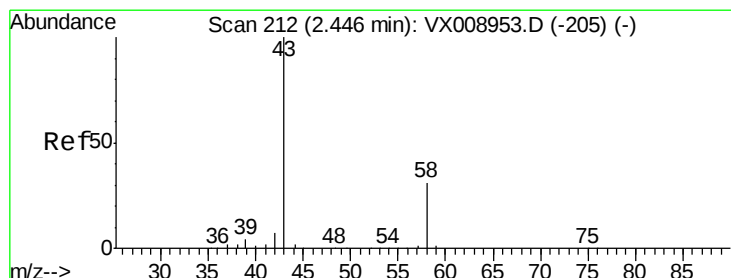
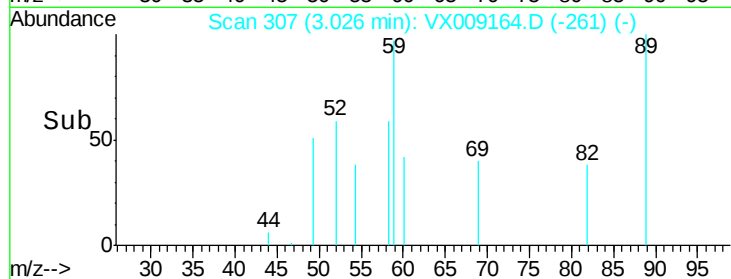
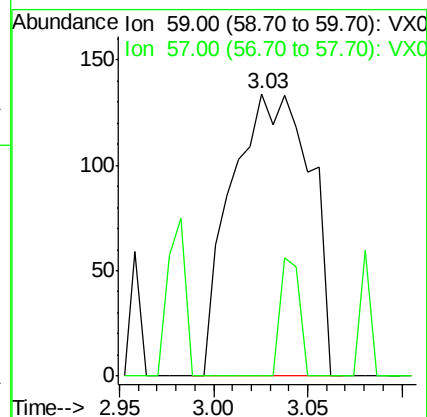
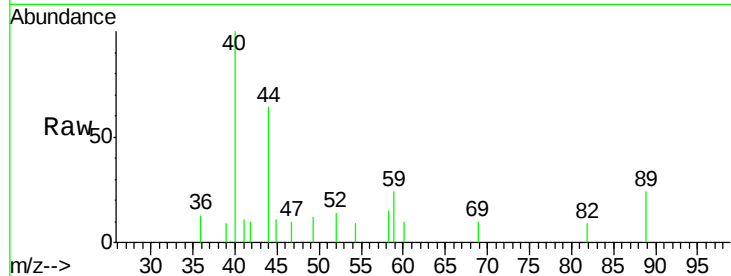




#11
Tert butyl alcohol
Concen: 0.588 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009164.D
Acq: 25 Apr 2019 15:55

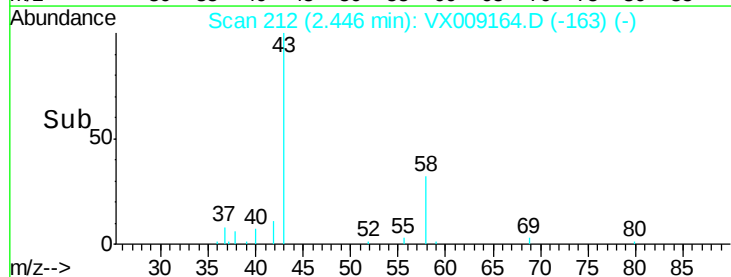
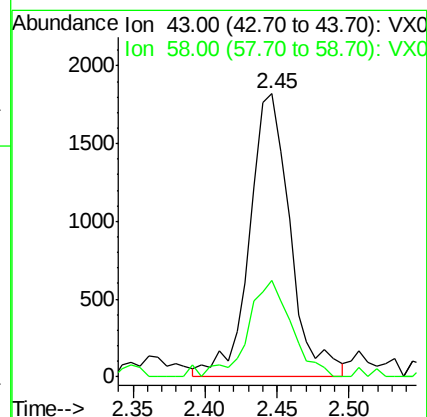
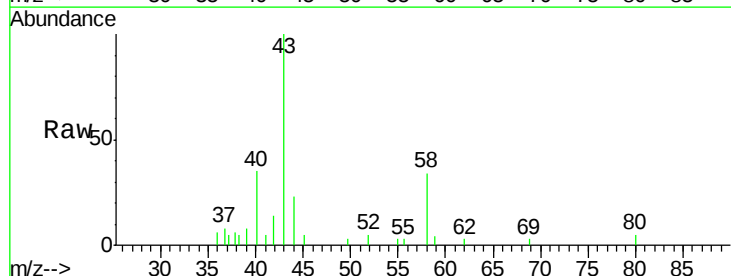
Instrument :
MSVOA_X
ClientSampled :
HW-7

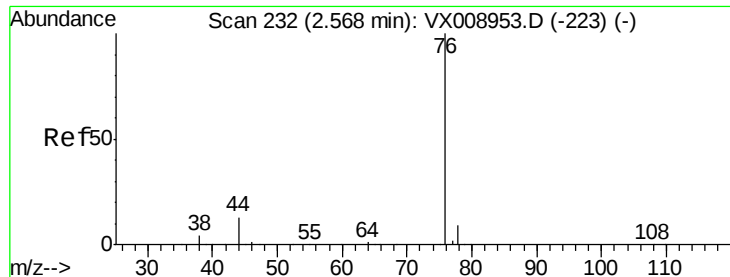
Tot Ion: 59 Resp: 388
Ion Ratio Lower Upper
59 100
57 10.3 8.4 12.6



#16
Acetone
Concen: 2.304 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX009164.D
Acq: 25 Apr 2019 15:55

Tgt Ion: 43 Resp: 3553
Ion Ratio Lower Upper
43 100
58 35.1 24.8 37.2





#17

Carbon Disulfide

Concen: 1.333 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009164.D

Acq: 25 Apr 2019 15:55

Instrument :

MSVOA_X

ClientSampleId :

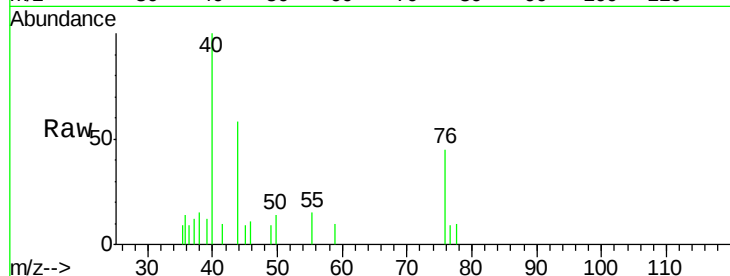
HW-7

Tot Ion: 76 Resp: 545

Ion Ratio Lower Upper

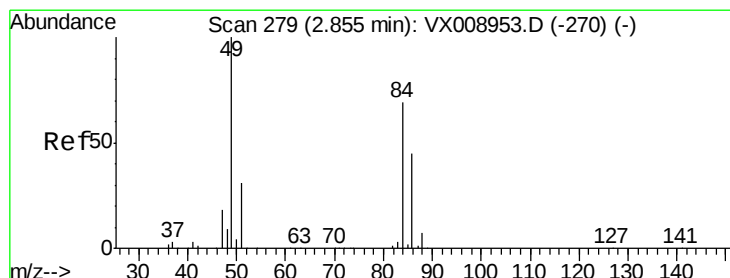
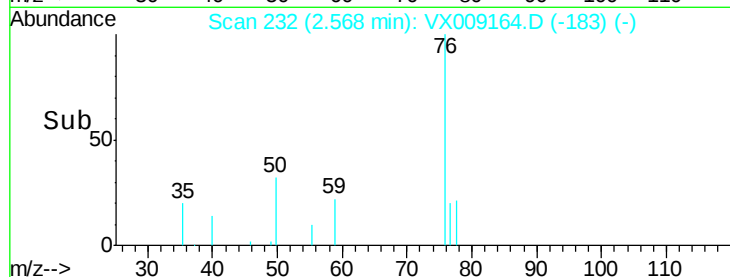
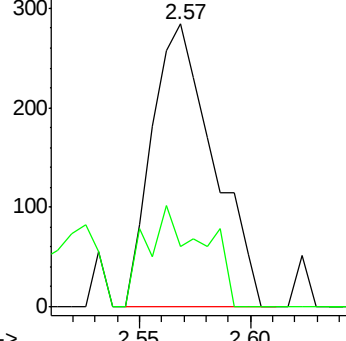
76 100

78 21.1 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.321 ug/l

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX009164.D

Acq: 25 Apr 2019 15:55

Tgt Ion: 84 Resp: 846

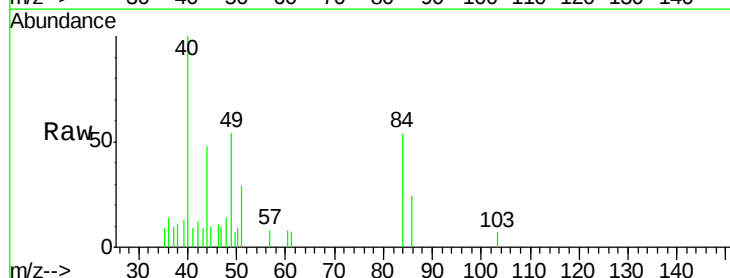
Ion Ratio Lower Upper

84 100

49 100.0 115.4 173.0#

51 53.0 35.8 53.6

86 43.6 52.1 78.1#

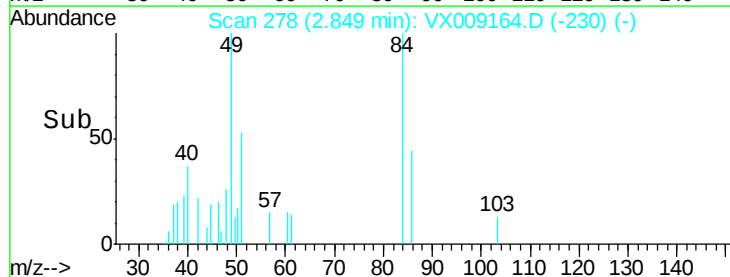
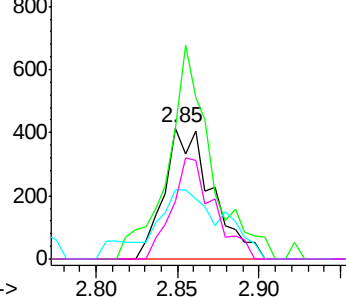


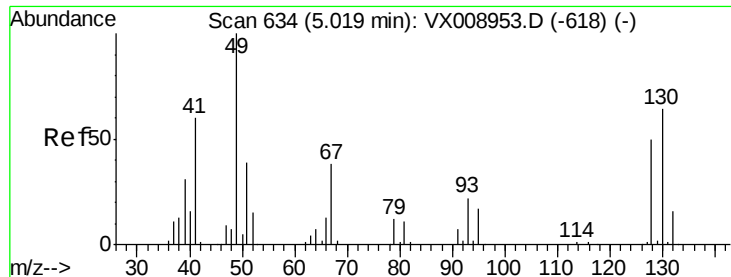
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009164.D

Acq: 25 Apr 2019 15:55

Instrument :

MSVOA_X

ClientSampleId :

HW-7

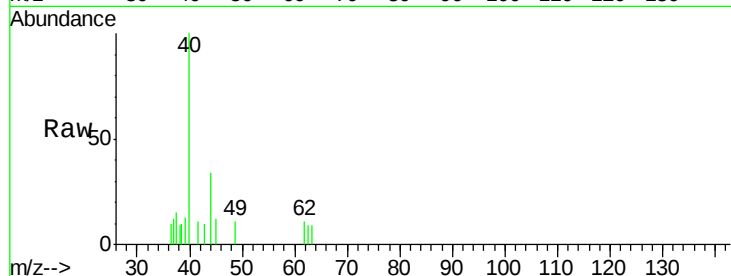
Tot Ion: 49 Resp: 43

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

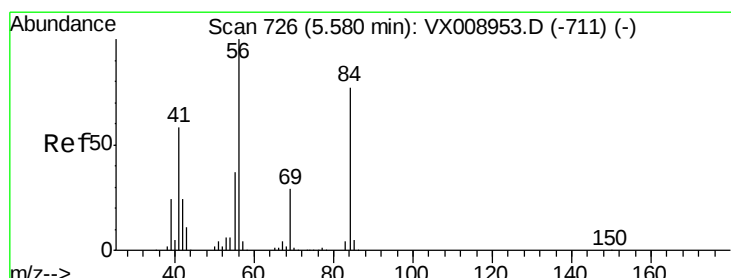
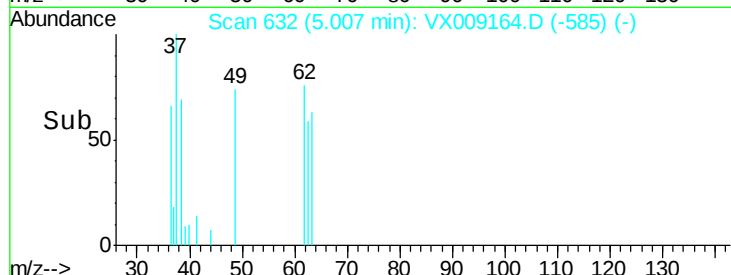
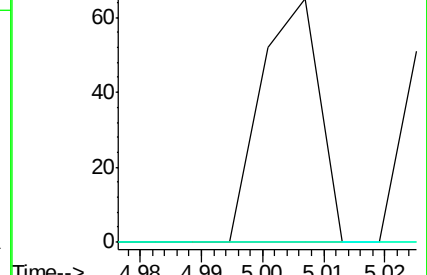
130 0.0 50.4 75.6#



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



#31

Cyclohexane

Concen: 1.026 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009164.D

Acq: 25 Apr 2019 15:55

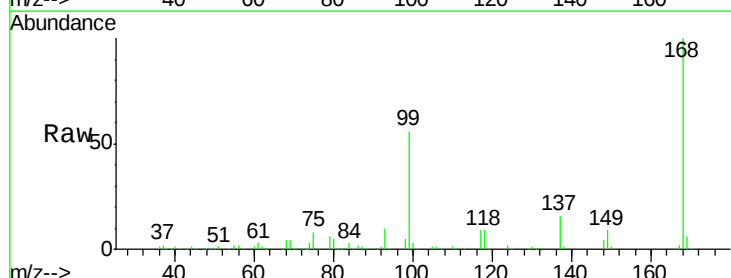
Tgt Ion: 56 Resp: 4859

Ion Ratio Lower Upper

56 100

69 168.1 23.3 34.9#

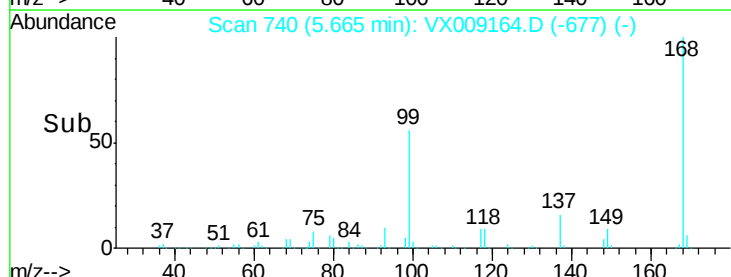
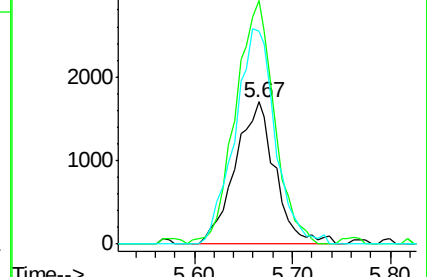
84 149.4 61.7 92.5#

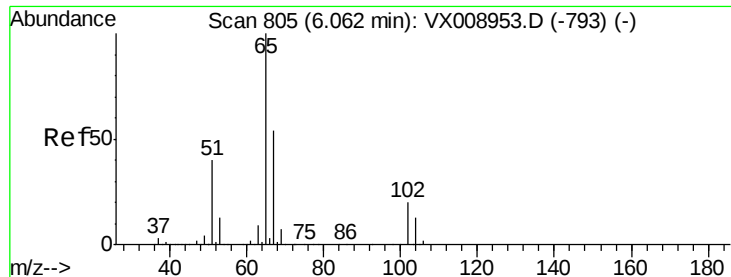


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

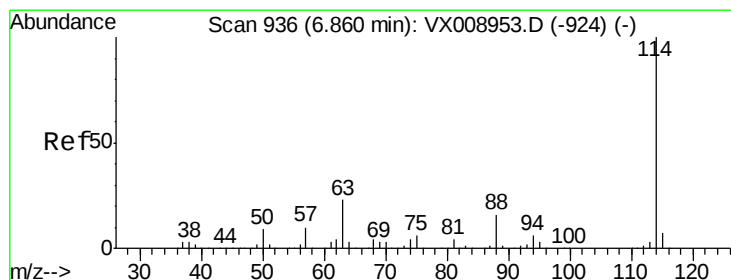
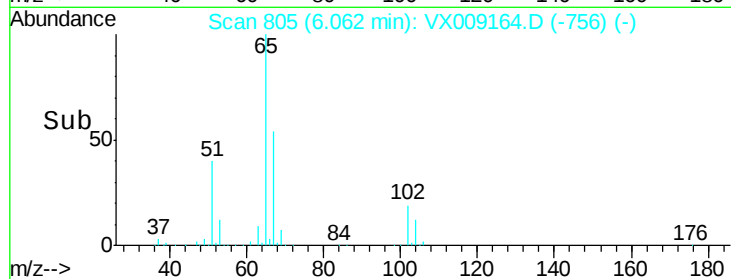
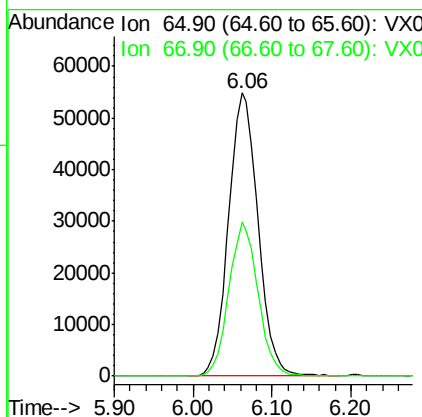
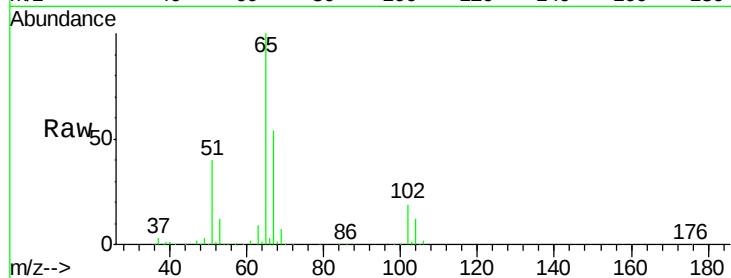




#33
 1,2-Dichloroethane-d4
 Concen: 47.982 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009164.D
 Acq: 25 Apr 2019 15:55

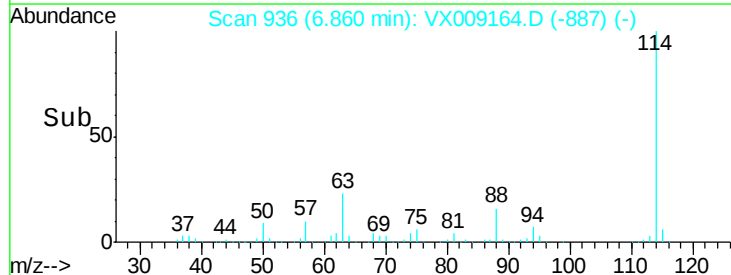
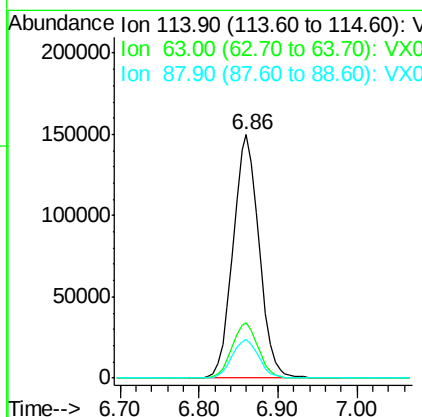
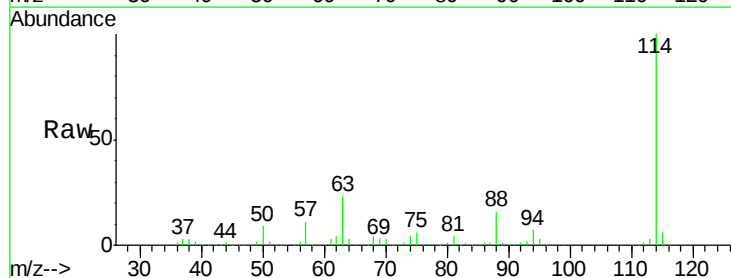
Instrument :
 MSVOA_X
 ClientSampled :
 HW-7

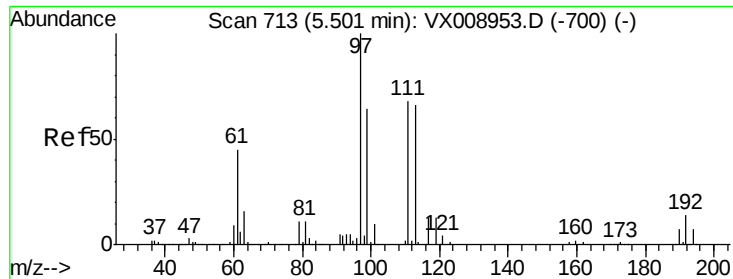
Tot Ion: 65 Resp: 142662
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009164.D
 Acq: 25 Apr 2019 15:55

Tgt Ion: 114 Resp: 343383
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 46.0
 88 16.1 0.0 32.6

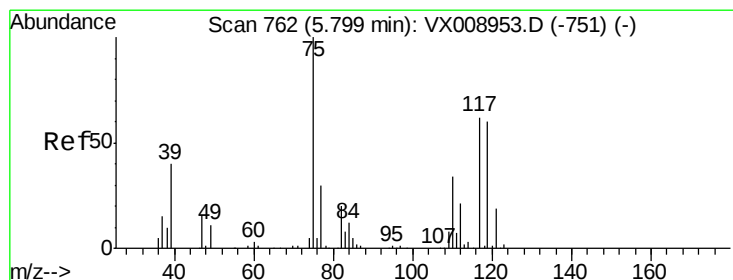
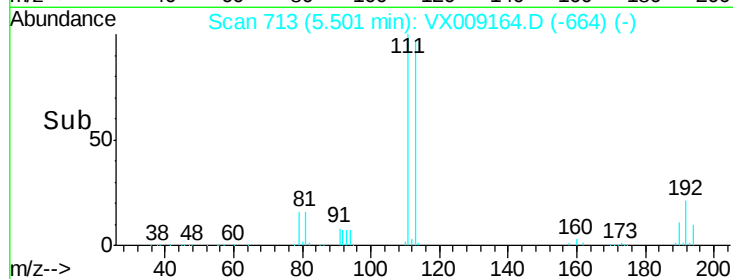
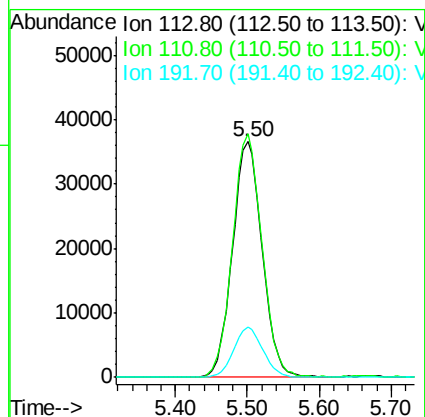
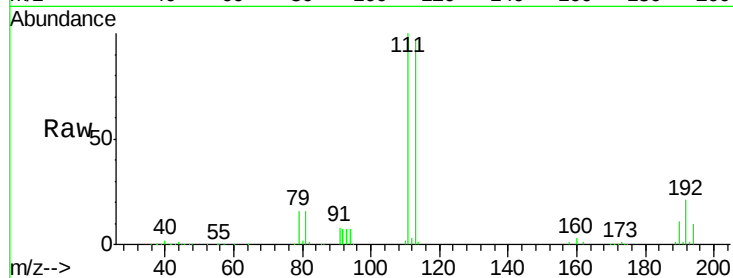




#35
 Dibromofluoromethane
 Concen: 47.554 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009164.D
 Acq: 25 Apr 2019 15:55

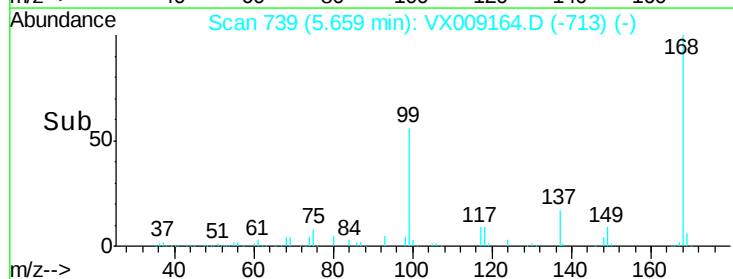
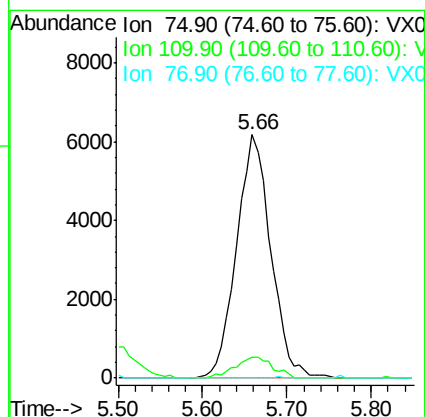
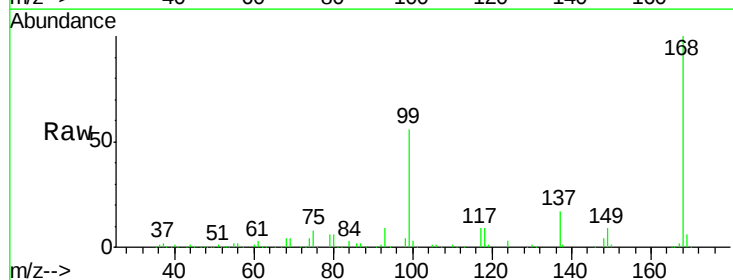
Instrument :
 MSVOA_X
 ClientSampleId :
 HW-7

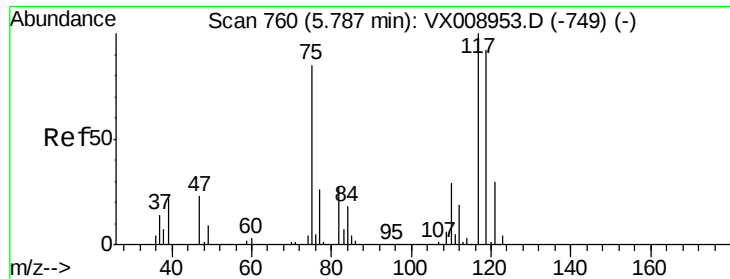
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.9	124.3
192	20.9	17.4	26.0



#36
 1,1-Dichloropropene
 Concen: 4.792 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009164.D
 Acq: 25 Apr 2019 15:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.9	50.7#
77	0.0	25.0	37.4#

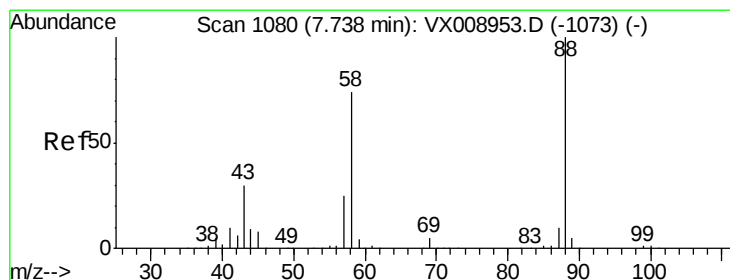
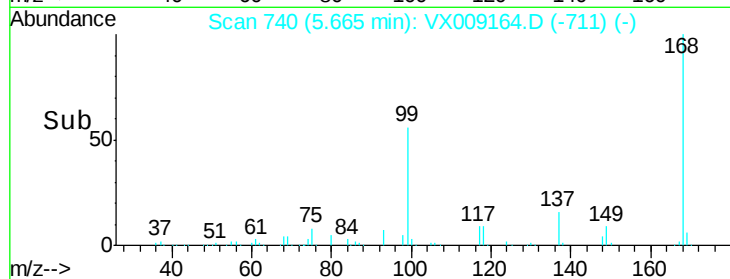
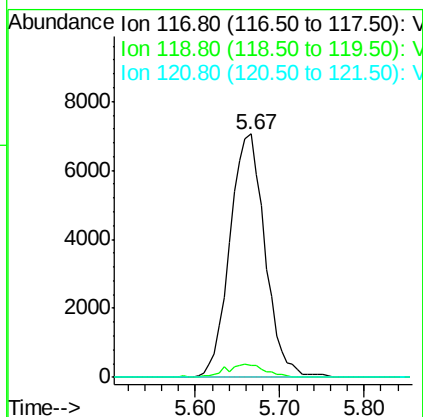
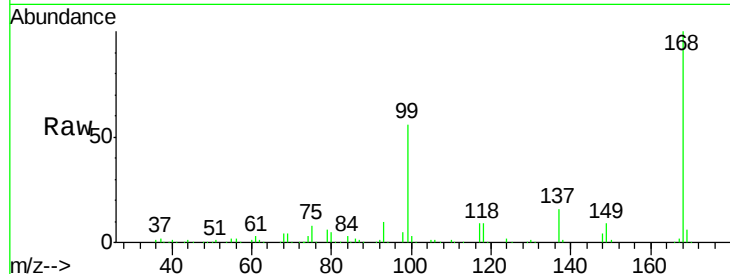




#38
Carbon Tetrachloride
Concen: 6.609 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009164.D
Acq: 25 Apr 2019 15:55

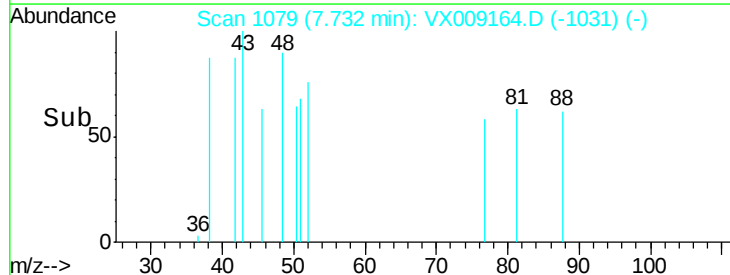
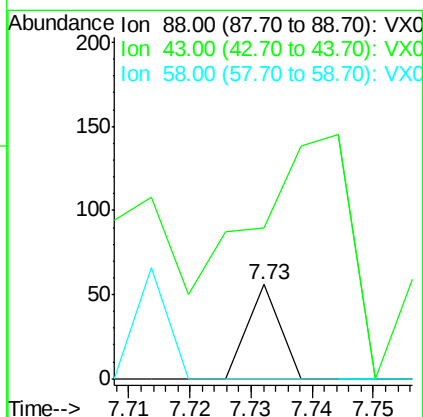
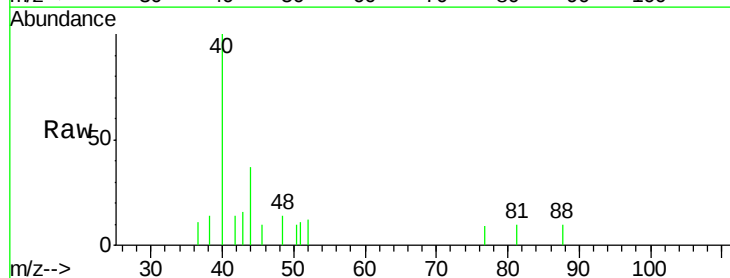
Instrument :
MSVOA_X
ClientSampled :
HW-7

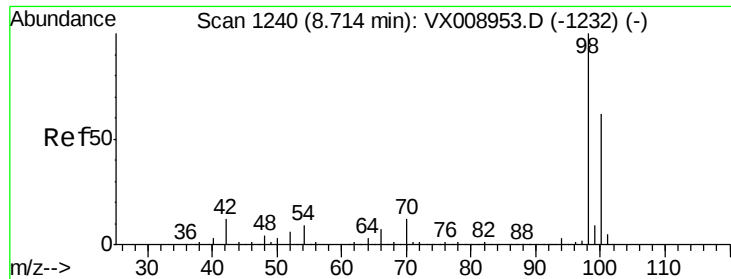
Tot Ion: 117 Resp: 19897
Ion Ratio Lower Upper
117 100
119 5.0 73.8 110.8#
121 0.0 23.6 35.4#



#49
1,4-Dioxane
Concen: 0.294 ug/l
RT: 7.73 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VX009164.D
Acq: 25 Apr 2019 15:55

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 695.0 29.3 43.9#
58 0.0 62.6 93.8#

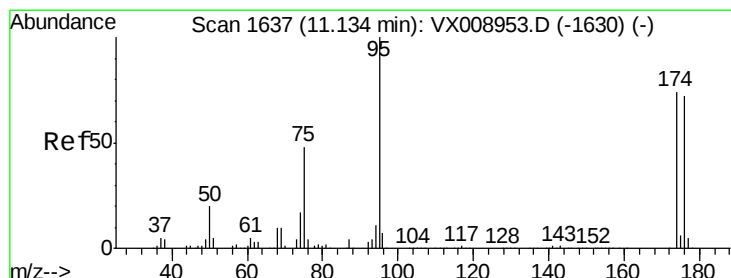
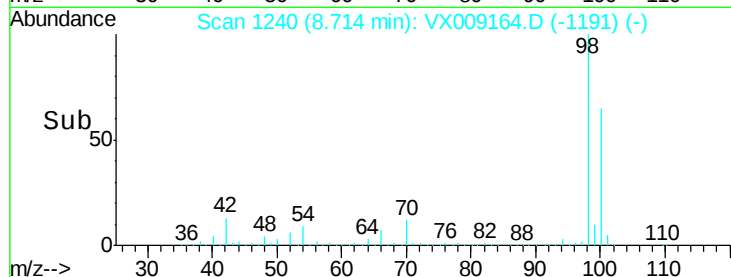
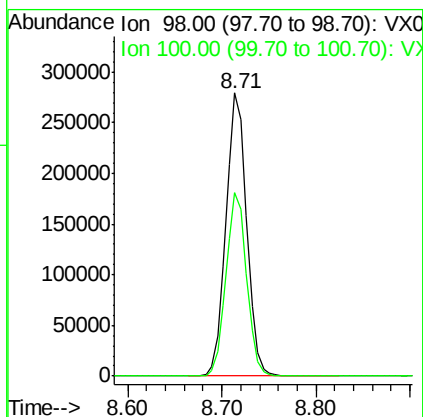
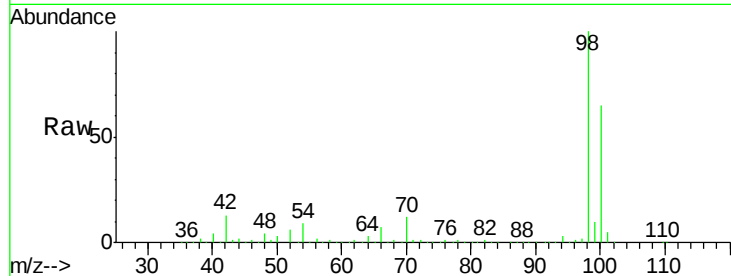




#50
Toluene-d8
Concen: 48.545 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009164.D
Acq: 25 Apr 2019 15:55

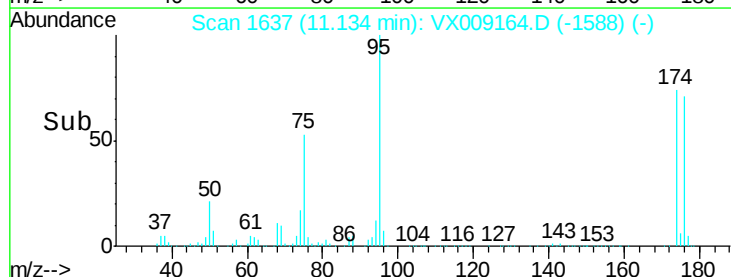
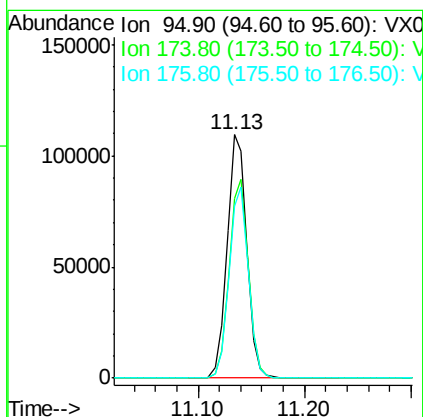
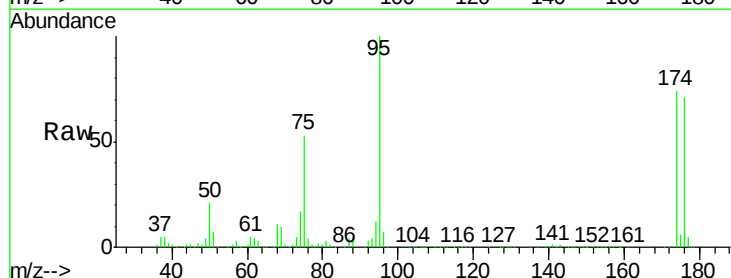
Instrument :
MSVOA_X
ClientSampleId :
HW-7

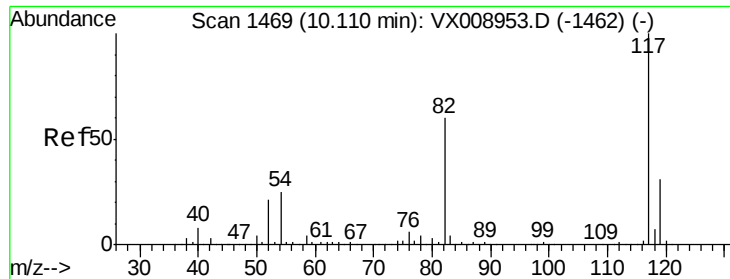
Tot Ion: 98 Resp: 426643
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 45.712 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009164.D
Acq: 25 Apr 2019 15:55

Tgt Ion: 95 Resp: 141819
Ion Ratio Lower Upper
95 100
174 80.4 0.0 159.6
176 77.5 0.0 154.8

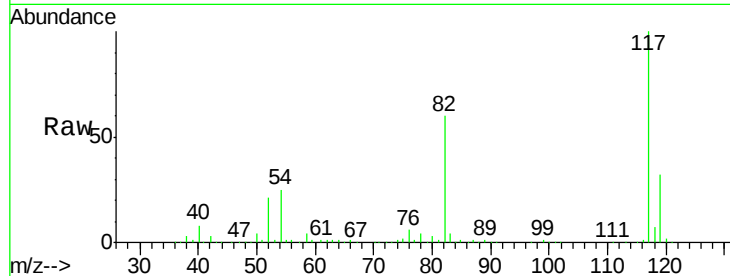




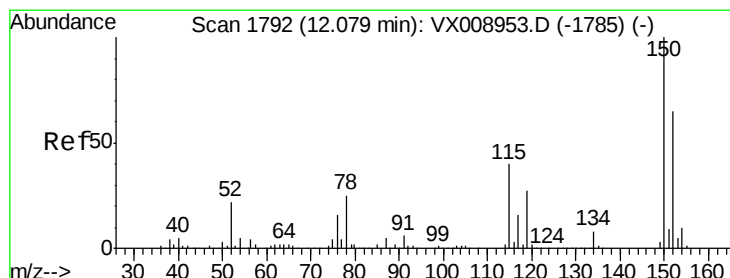
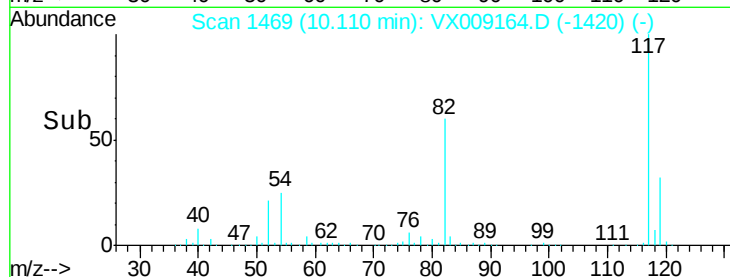
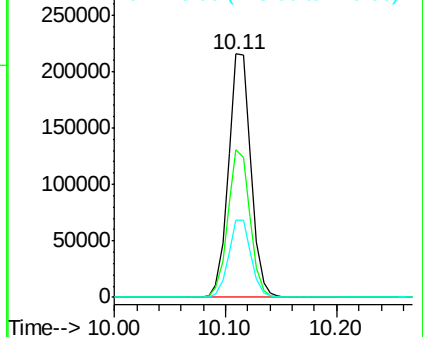
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009164.D
Acq: 25 Apr 2019 15:55

Instrument :
MSVOA_X
ClientSampled :
HW-7

Tot Ion:117 Resp: 299236
Ion Ratio Lower Upper
117 100
82 60.4 48.2 72.4
119 31.7 25.0 37.6

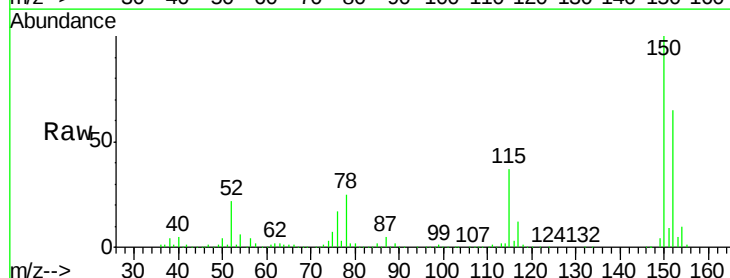


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

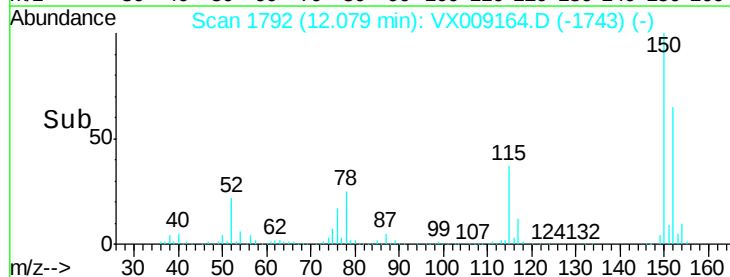
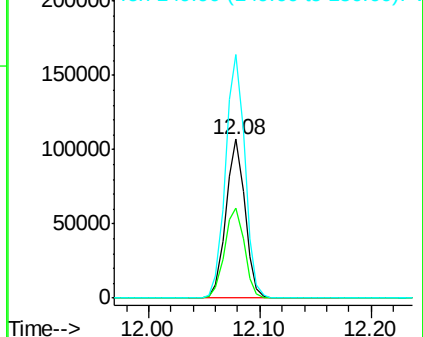


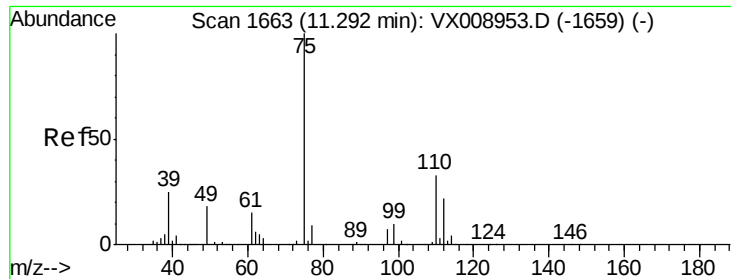
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009164.D
Acq: 25 Apr 2019 15:55

Tgt Ion:152 Resp: 126593
Ion Ratio Lower Upper
152 100
115 59.4 41.4 124.2
150 156.2 0.0 349.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.170 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009164.D

Acq: 25 Apr 2019 15:55

Instrument :

MSVOA_X

ClientSampleId :

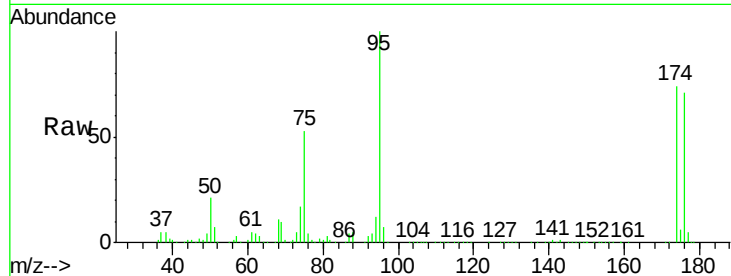
HW-7

Tot Ion: 75 Resp: 71622

Ion Ratio Lower Upper

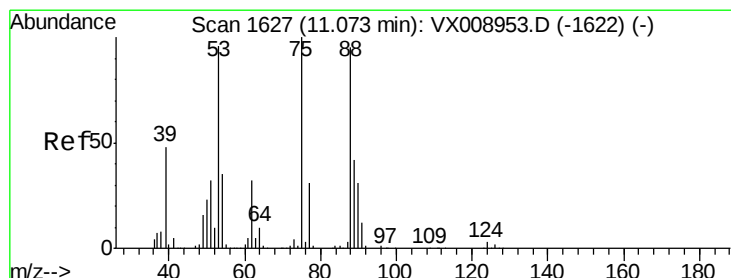
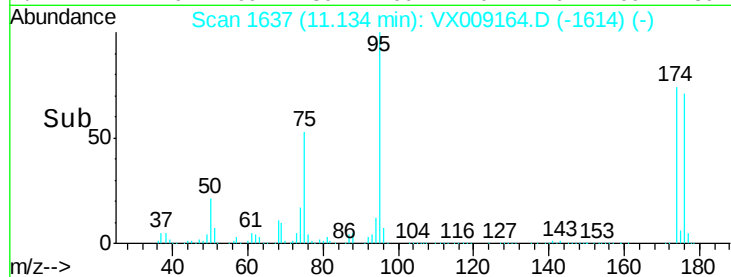
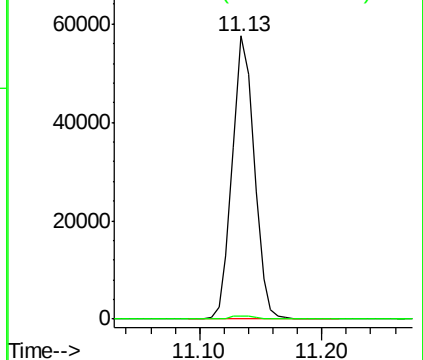
75 100

77 1.3 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 59.484 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009164.D

Acq: 25 Apr 2019 15:55

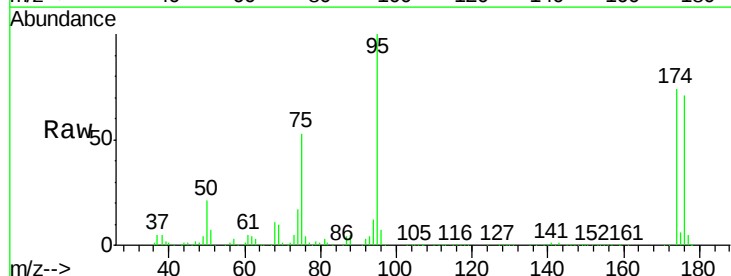
Tgt Ion: 75 Resp: 71622

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 36.0 54.0#



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

