

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW031119\
 Data File : VW009084.D
 Acq On : 11 Mar 2019 14:11
 Operator : SY/VA
 Sample : K1823-02
 Misc : 2.28G/5ML/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 STOCK-PILE-1

Quant Time: Mar 12 08:11:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	266281	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	405304	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	282483	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	77936	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	159423	59.51	ug/l	0.00
Spiked Amount			Recovery	=	119.02%	
35) Dibromofluoromethane	7.88	113	128991	52.86	ug/l	0.00
Spiked Amount			Recovery	=	105.72%	
50) Toluene-d8	10.32	98	459228	45.82	ug/l	0.00
Spiked Amount			Recovery	=	91.64%	
62) 4-Bromofluorobenzene	12.62	95	98165	24.88	ug/l	0.00
Spiked Amount			Recovery	=	49.76%	

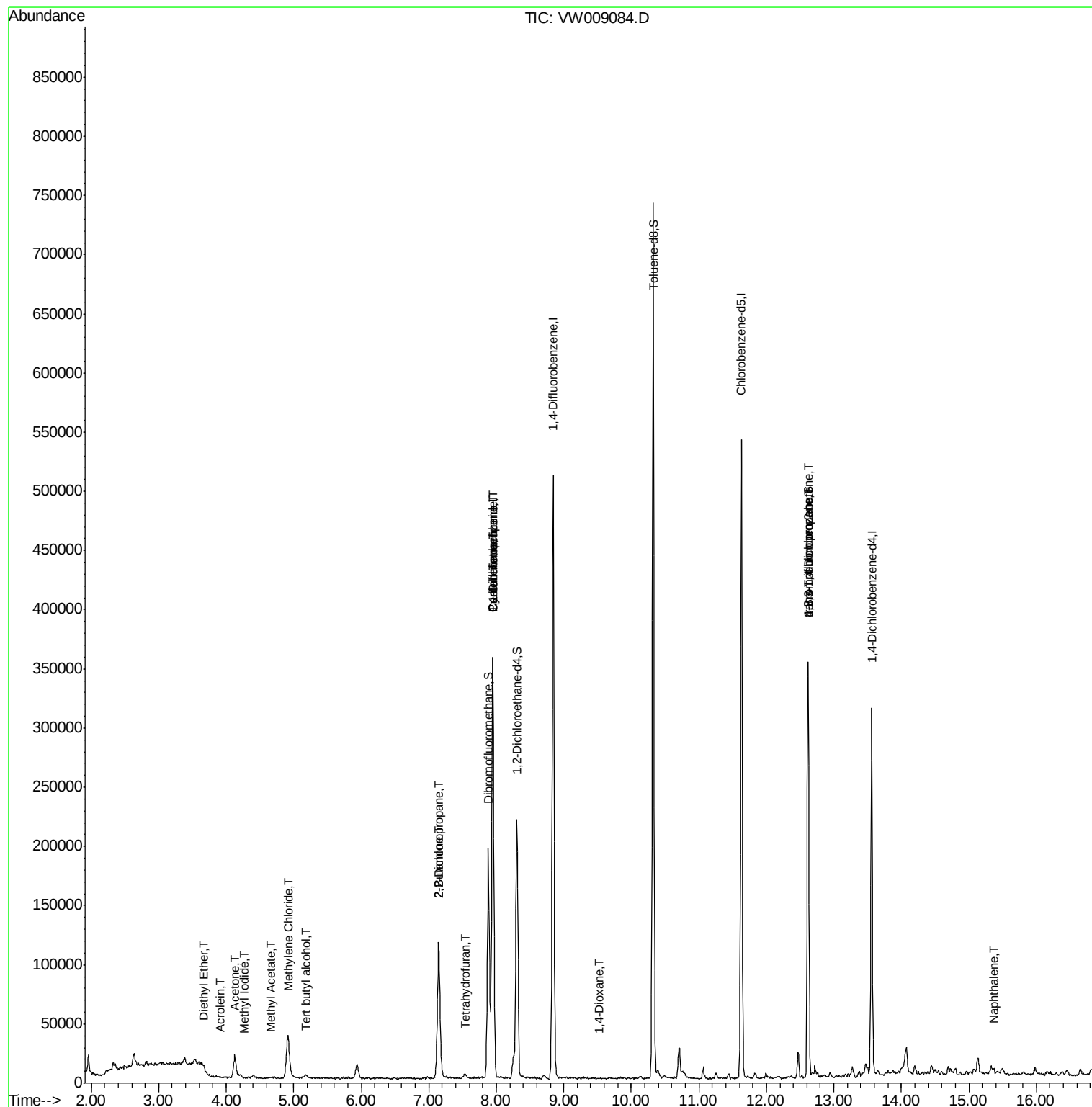
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	2134	1.567	ug/l	92
10) Methyl Iodide	4.26	142	49	3.203	ug/l #	40
11) Tert butyl alcohol	5.18	59	4525	22.041	ug/l #	92
13) Acrolein	3.90	56	344	1.523	ug/l #	32
16) Acetone	4.12	43	34095	56.397	ug/l	96
18) Methyl Acetate	4.67	43	2054	1.478	ug/l	99
20) Methylene Chloride	4.92	84	27493	4.757	ug/l	91
25) 2-Butanone	7.15	43	9858	11.799	ug/l #	82
26) 2,2-Dichloropropane	7.15	77	7644	1.728	ug/l #	54
29) Tetrahydrofuran	7.54	42	2836	5.386	ug/l	97
31) Cyclohexane	7.95	56	7200	1.441	ug/l #	42
36) 1,1-Dichloropropene	7.95	75	20590	4.859	ug/l #	51
38) Carbon Tetrachloride	7.95	117	26262	6.000	ug/l #	17
49) 1,4-Dioxane	9.53	88	24	1.083	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	54170	87.973	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	54170	196.772	ug/l #	5
95) Naphthalene	15.37	128	3349	1.281	ug/l	96

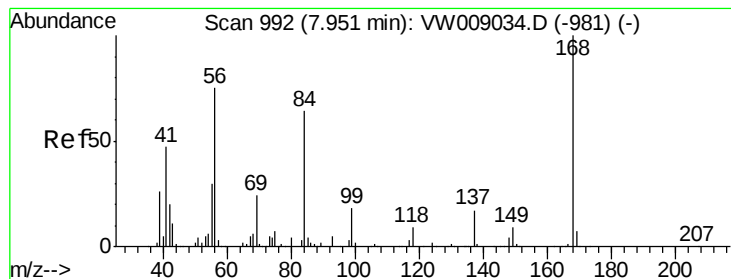
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW031119\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

Instrument :

MSVOA_W

ClientSampleId :

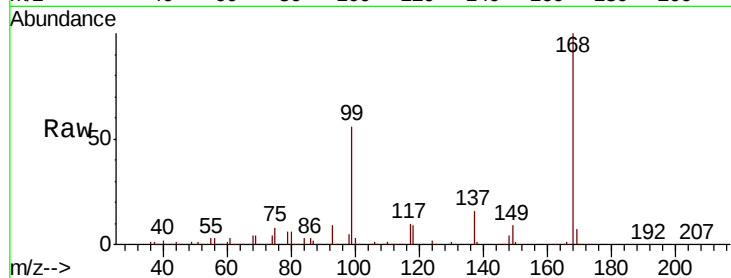
STOCK-PILE-1

Tgt Ion:168 Resp: 266281

Ion Ratio Lower Upper

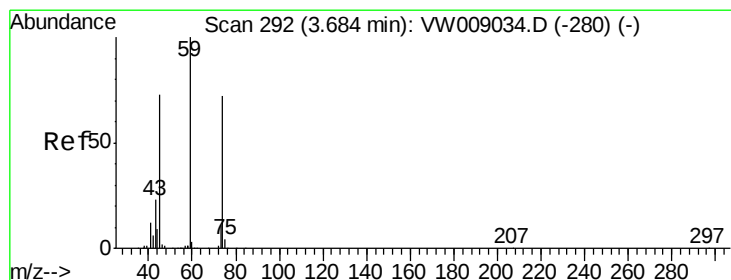
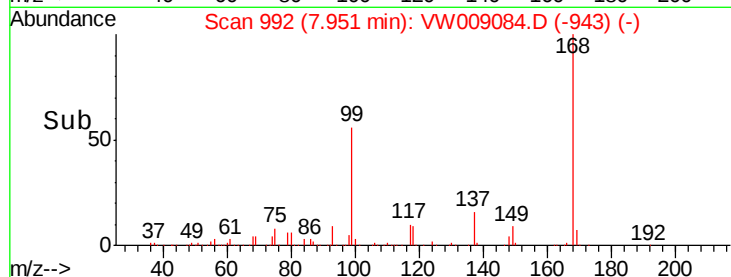
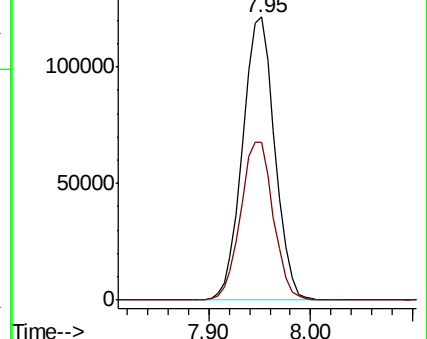
168 100

99 56.0 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.567 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW009084.D

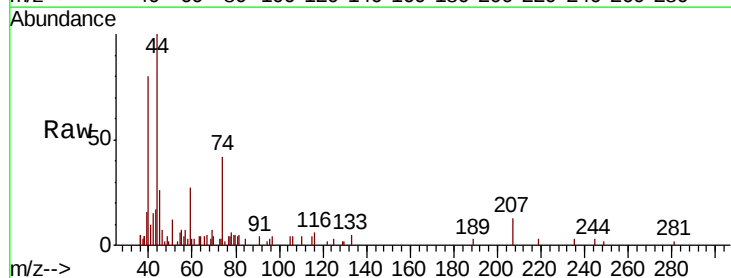
Acq: 11 Mar 2019 14:11

Tgt Ion: 74 Resp: 2134

Ion Ratio Lower Upper

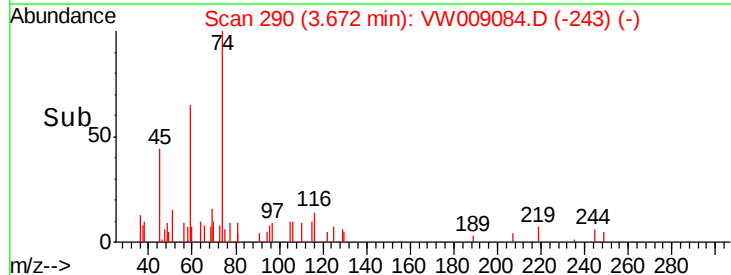
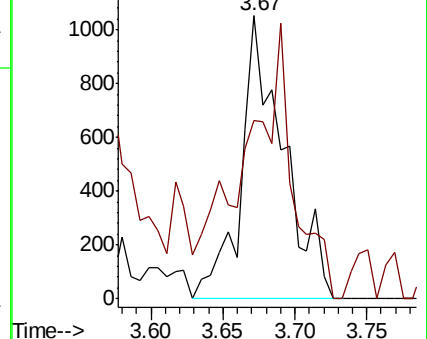
74 100

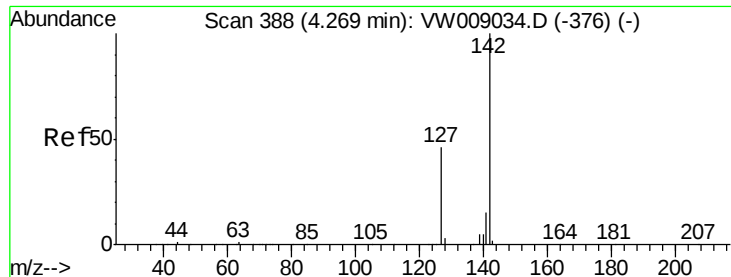
45 112.9 52.3 157.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

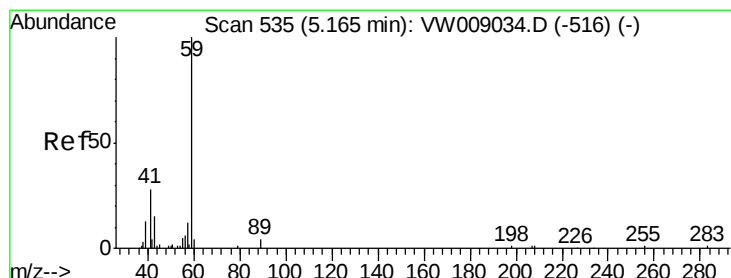
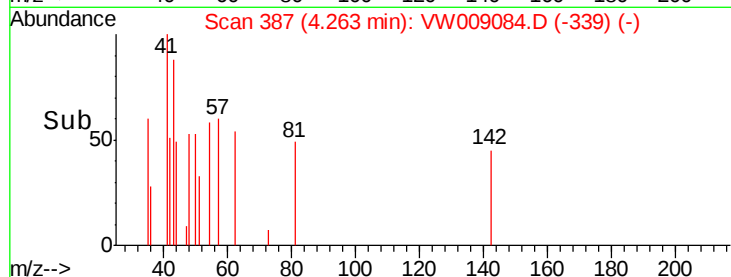
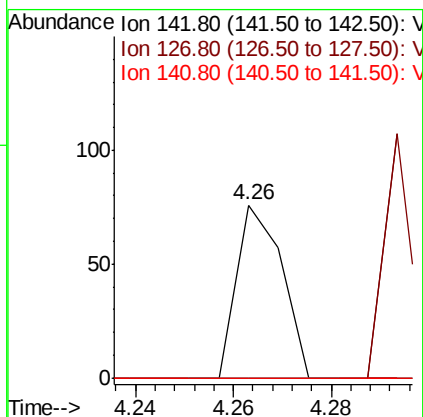
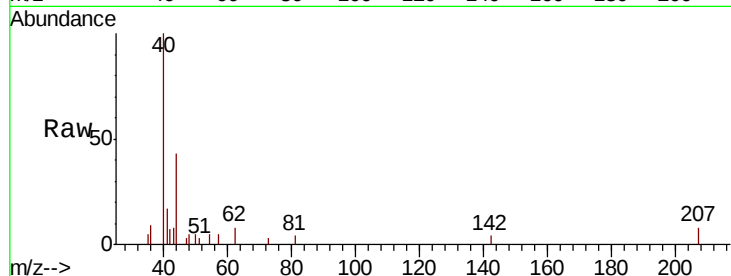




#10
Methyl Iodide
Concen: 3.203 ug/l
RT: 4.26 min Scan# 387
Delta R.T. -0.01 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

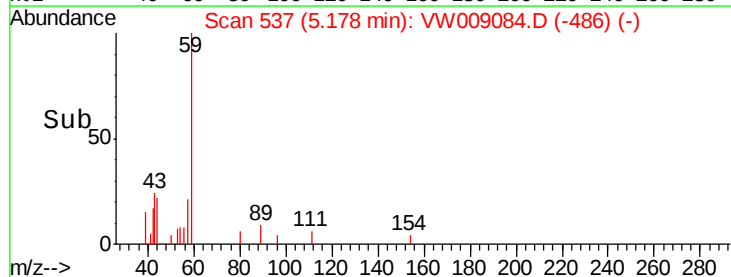
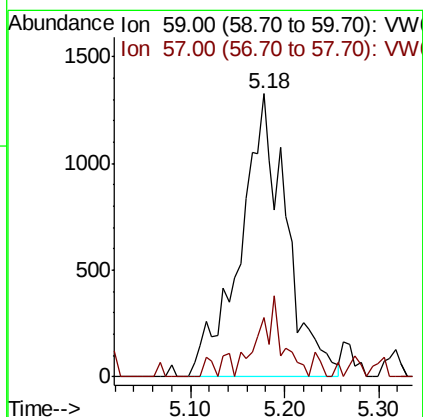
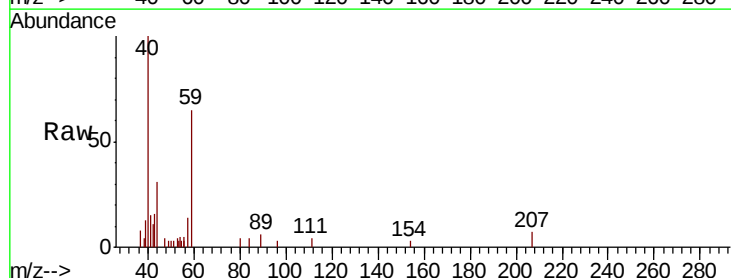
Instrument :
MSVOA_W
ClientSampled :
STOCK-PILE-1

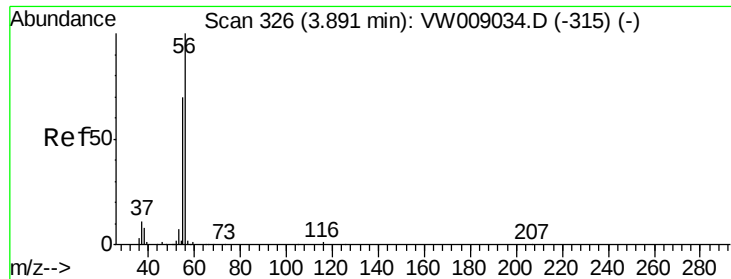
Tgt Ion:142 Resp: 49
Ion Ratio Lower Upper
142 100
127 0.0 35.8 53.6#
141 0.0 11.8 17.8#



#11
Tert butyl alcohol
Concen: 22.041 ug/l
RT: 5.18 min Scan# 537
Delta R.T. 0.01 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

Tgt Ion: 59 Resp: 4525
Ion Ratio Lower Upper
59 100
57 7.6 8.6 12.8#

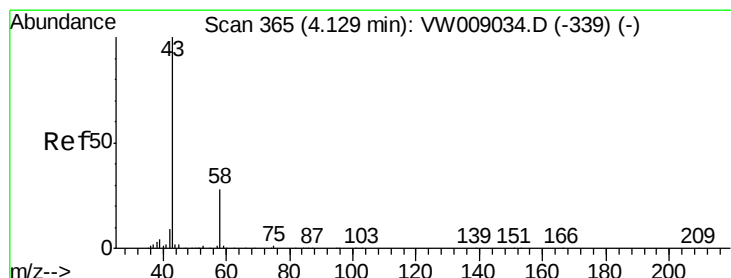
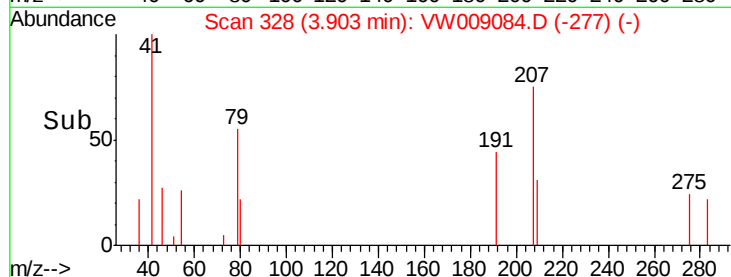
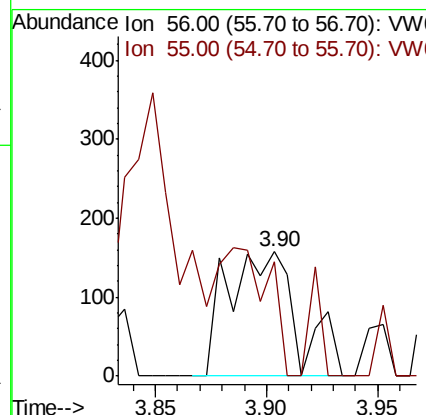
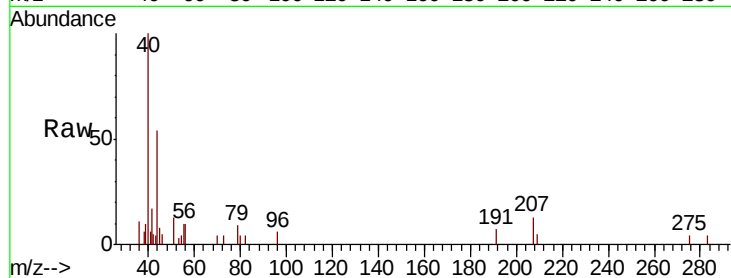




#13
Acrolein
Concen: 1.523 ug/l
RT: 3.90 min Scan# 328
Delta R.T. 0.01 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

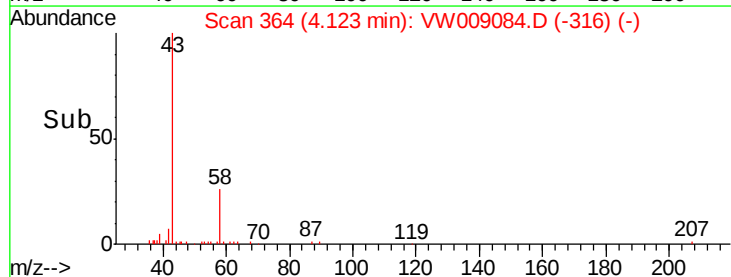
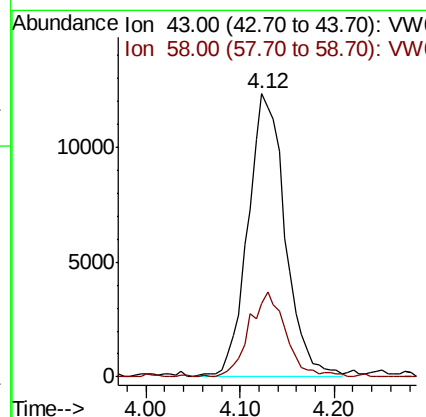
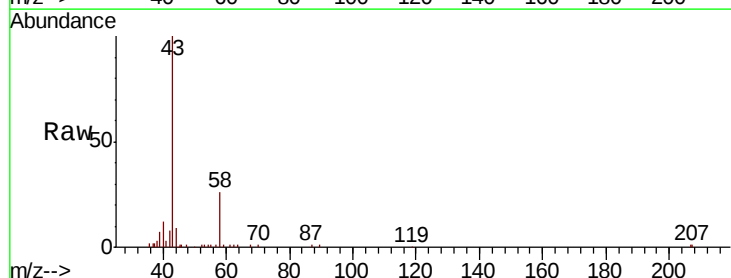
Instrument :
MSVOA_W
ClientSampleId :
STOCK-PILE-1

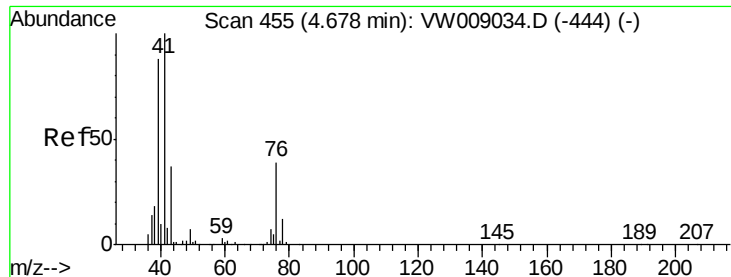
Tgt Ion: 56 Resp: 344
Ion Ratio Lower Upper
56 100
55 14.8 56.6 84.8#



#16
Acetone
Concen: 56.397 ug/l
RT: 4.12 min Scan# 364
Delta R.T. -0.01 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

Tgt Ion: 43 Resp: 34095
Ion Ratio Lower Upper
43 100
58 26.2 22.5 33.7

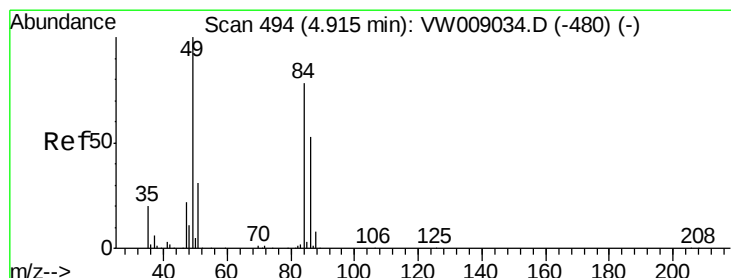
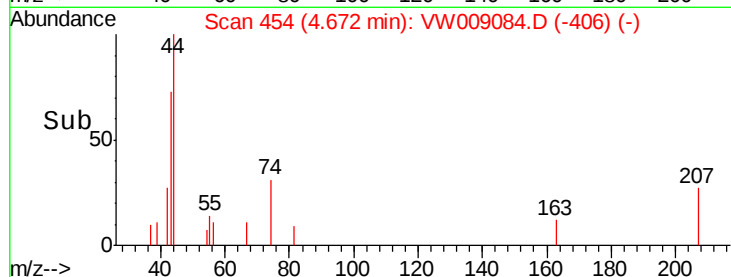
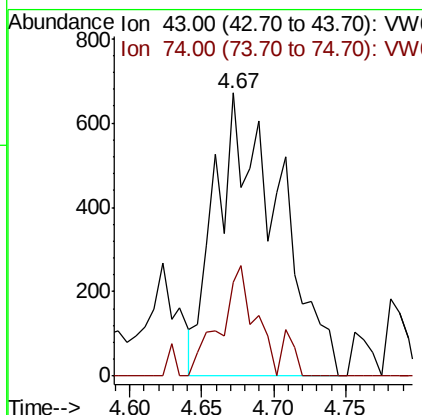
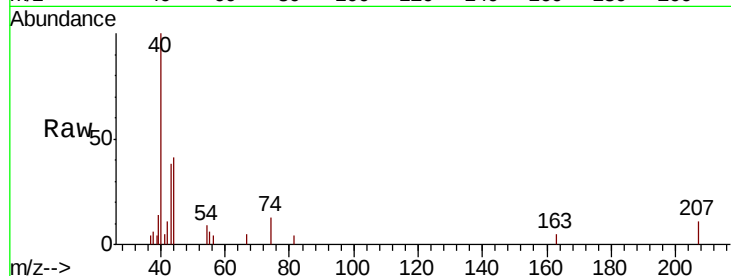




#18
Methyl Acetate
Concen: 1.478 ug/l
RT: 4.67 min Scan# 454
Delta R.T. -0.01 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

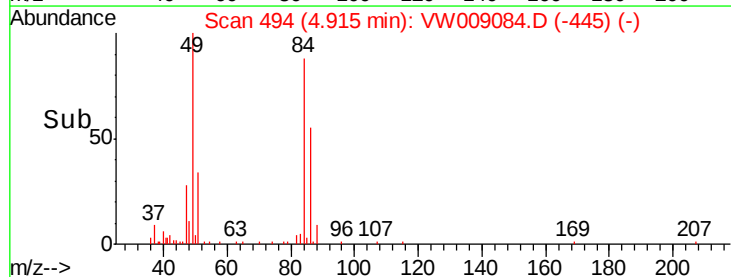
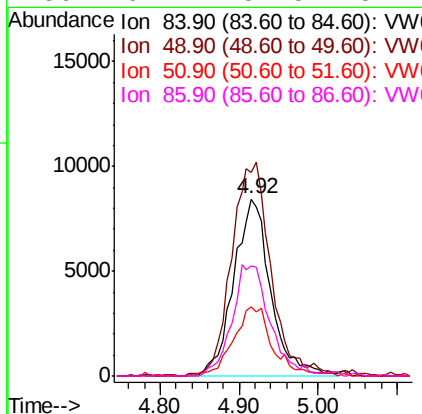
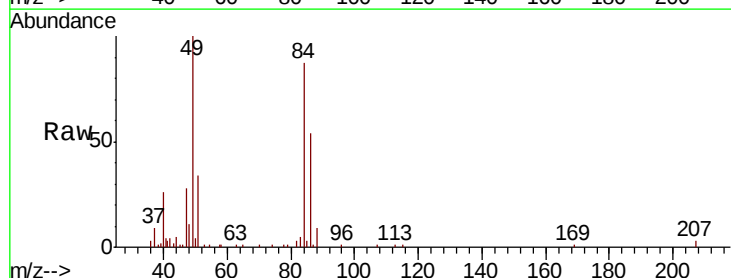
Instrument :
MSVOA_W
ClientSampleId :
STOCK-PILE-1

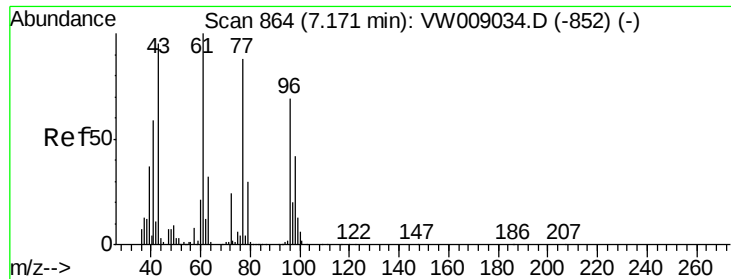
Tgt Ion: 43 Resp: 2054
Ion Ratio Lower Upper
43 100
74 21.5 17.6 26.4



#20
Methylene Chloride
Concen: 4.757 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

Tgt Ion: 84 Resp: 27493
Ion Ratio Lower Upper
84 100
49 113.3 102.4 153.6
51 39.0 31.6 47.4
86 62.2 54.5 81.7





#25

2-Butanone

Concen: 11.799 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

Instrument :

MSVOA_W

ClientSampleId :

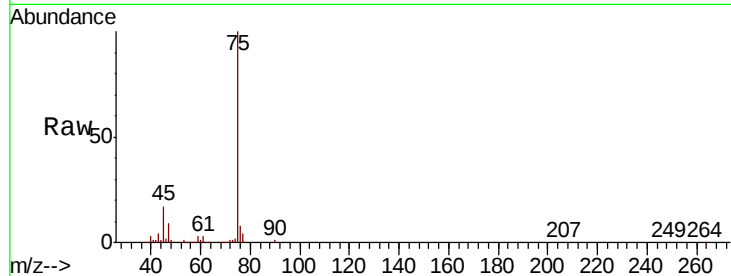
STOCK-PILE-1

Tgt Ion: 43 Resp: 9858

Ion Ratio Lower Upper

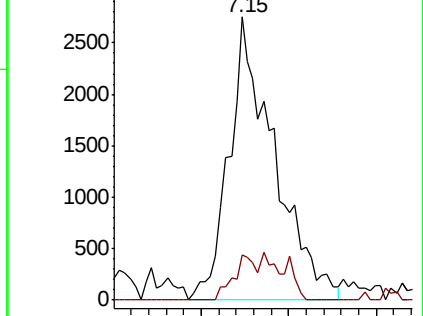
43 100

72 16.1 20.0 30.0#

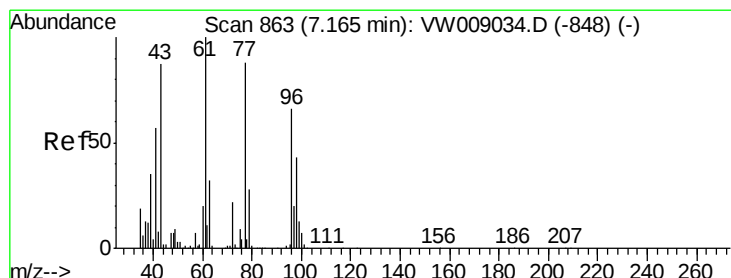
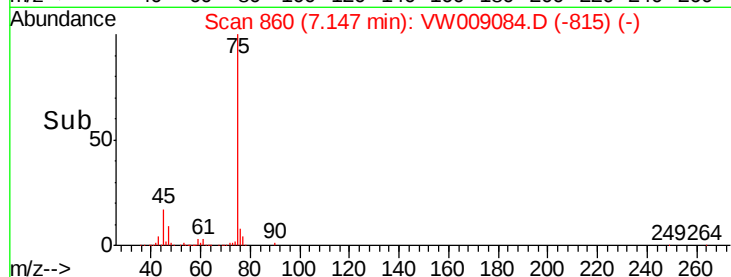


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



Time-->



#26

2,2-Dichloropropane

Concen: 1.728 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009084.D

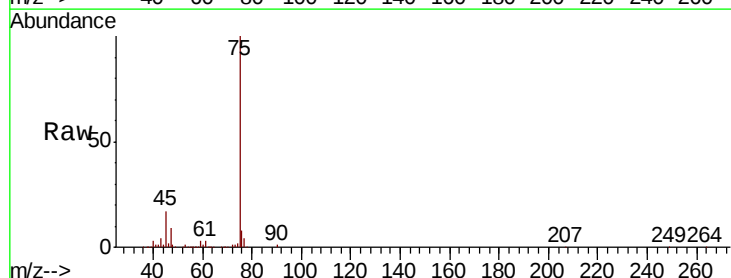
Acq: 11 Mar 2019 14:11

Tgt Ion: 77 Resp: 7644

Ion Ratio Lower Upper

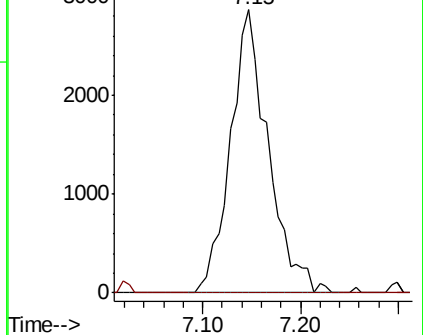
77 100

97 0.0 10.9 32.9#

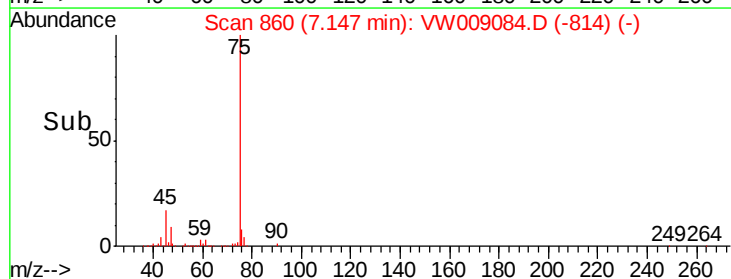


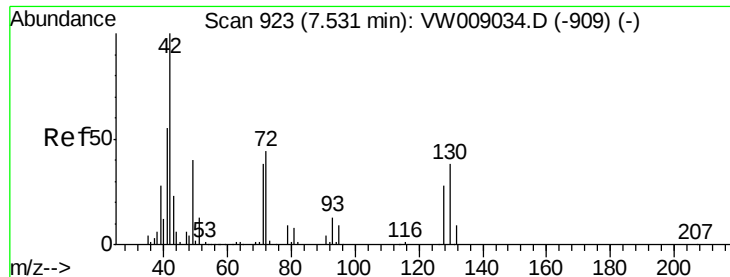
Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



Time-->

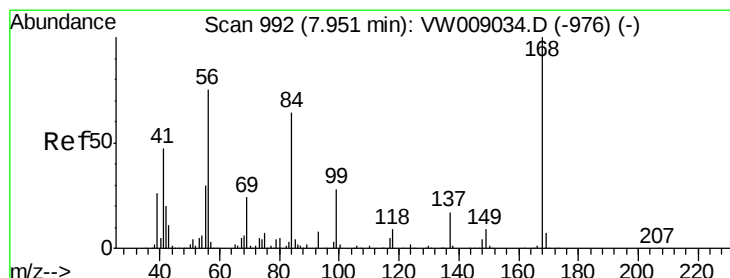
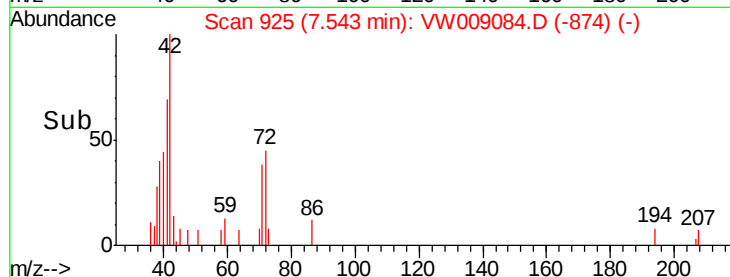
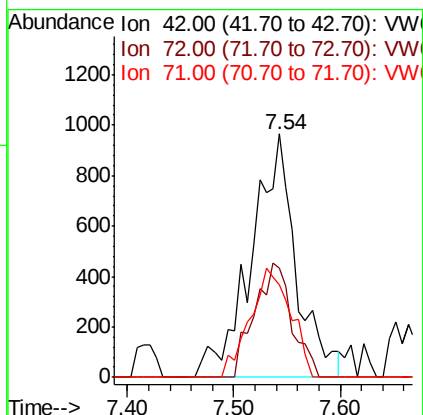
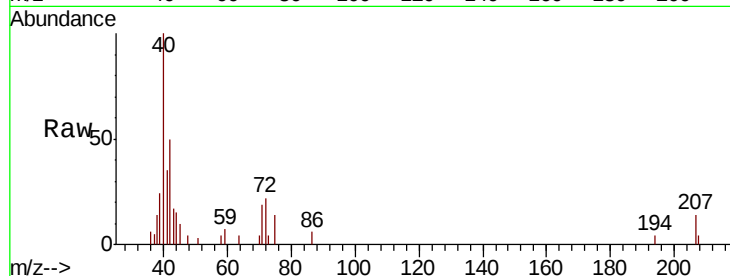




#29
Tetrahydrofuran
Concen: 5.386 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

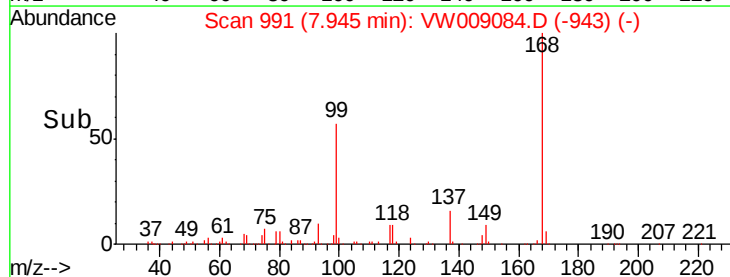
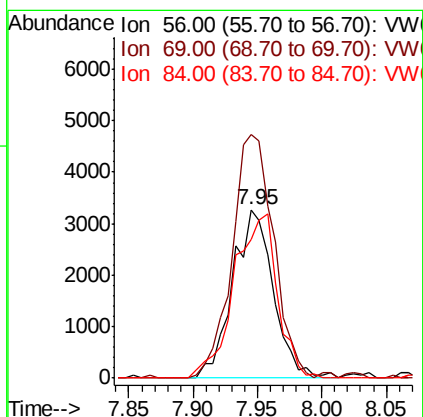
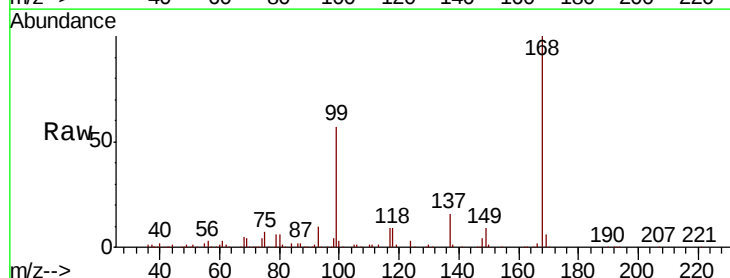
Instrument :
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ClientSampleId :
STOCK-PILE-1

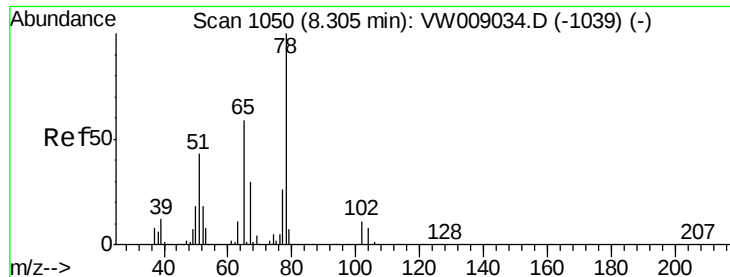
Tgt Ion: 42 Resp: 2836
Ion Ratio Lower Upper
42 100
72 39.2 32.2 48.4
71 40.7 30.7 46.1



#31
Cyclohexane
Concen: 1.441 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

Tgt Ion: 56 Resp: 7200
Ion Ratio Lower Upper
56 100
69 144.8 25.5 38.3#
84 82.2 68.6 103.0

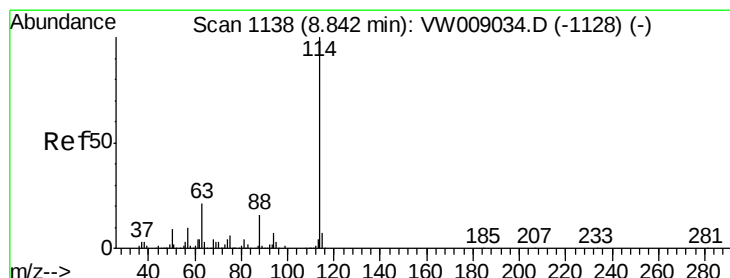
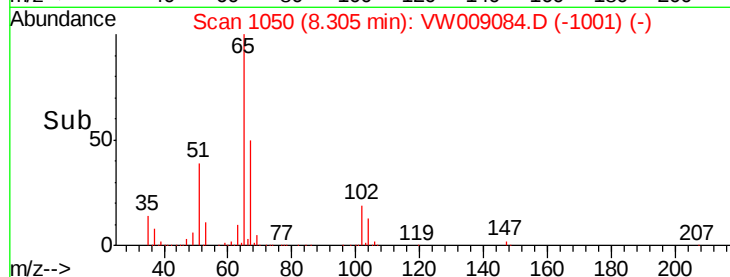
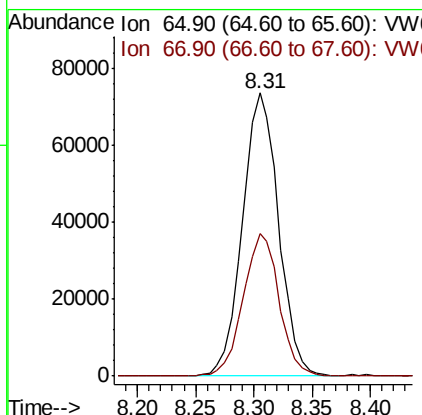
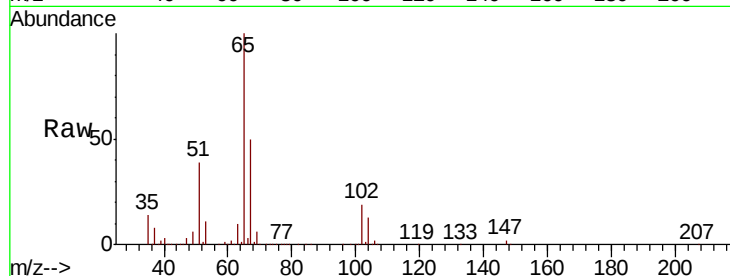




#33
 1,2-Dichloroethane-d4
 Concen: 59.507 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW009084.D
 Acq: 11 Mar 2019 14:11

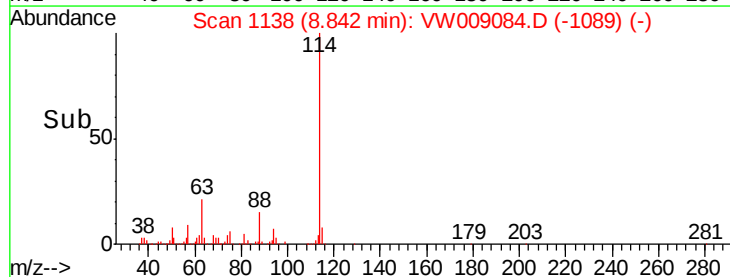
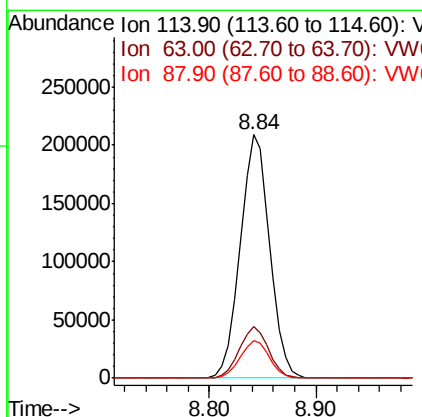
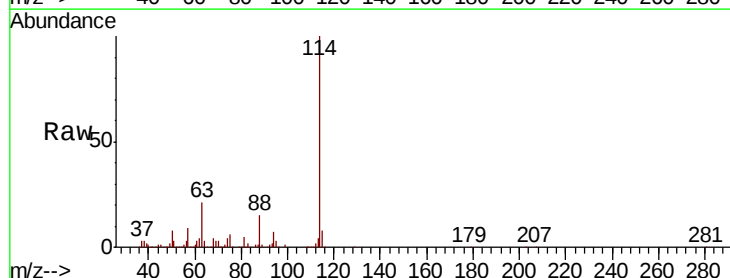
Instrument :
 MSVOA_W
 ClientSampleId :
 STOCK-PILE-1

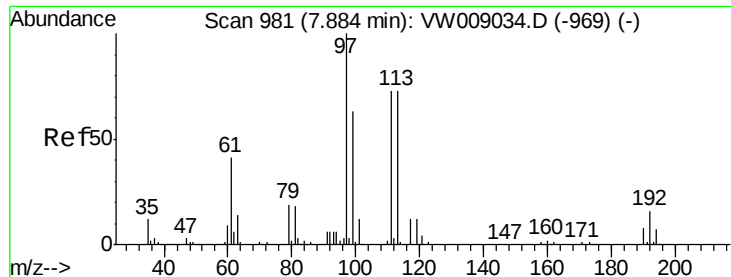
Tgt Ion: 65 Resp: 159423
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW009084.D
 Acq: 11 Mar 2019 14:11

Tgt Ion: 114 Resp: 405304
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 41.2
 88 15.2 0.0 31.2





#35

Dibromofluoromethane

Concen: 52.859 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

Instrument :
MSVOA_W
ClientSampleId :
STOCK-PILE-1

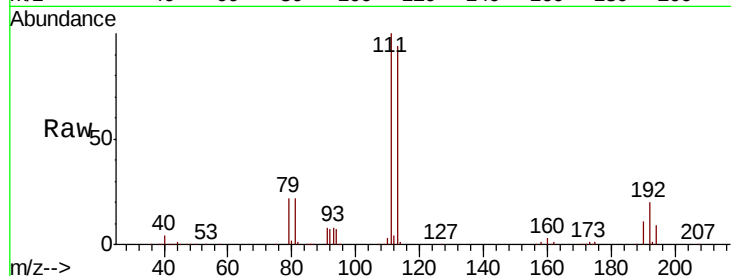
Tgt Ion:113 Resp: 128991

Ion Ratio Lower Upper

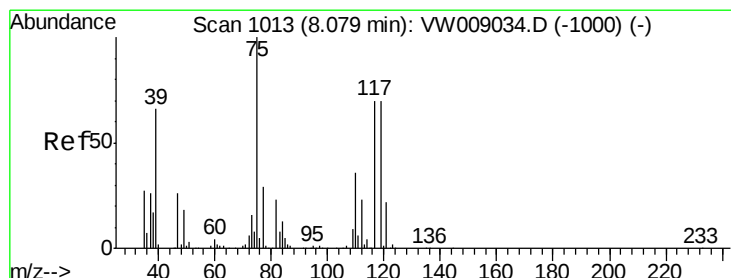
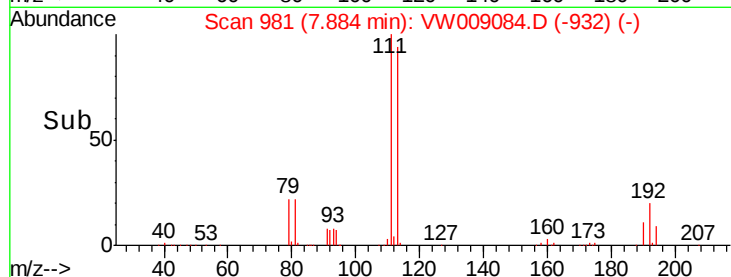
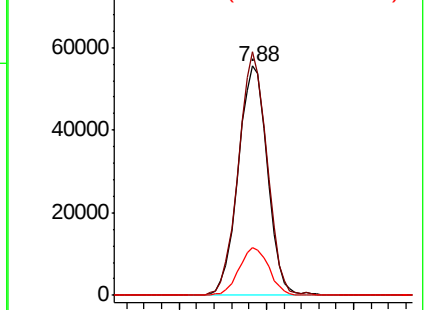
113 100

111 103.7 81.0 121.4

192 21.2 17.1 25.7



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: 4.859 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

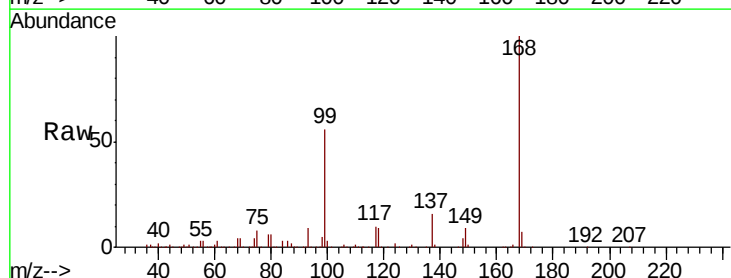
Tgt Ion: 75 Resp: 20590

Ion Ratio Lower Upper

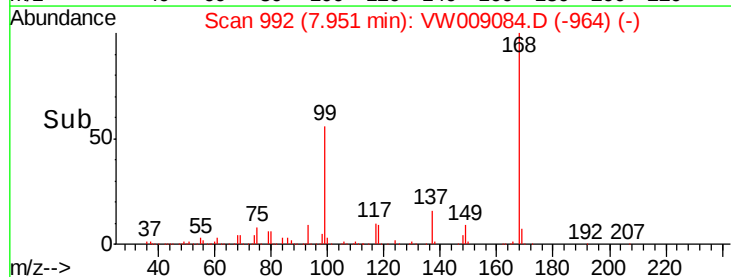
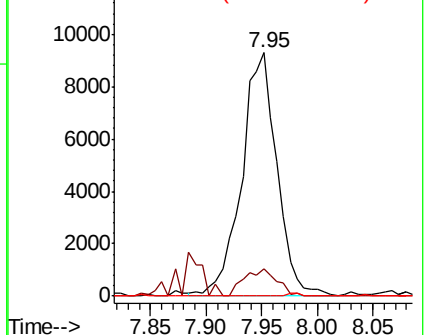
75 100

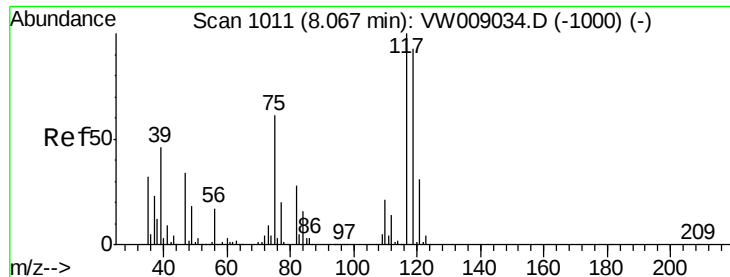
110 10.4 17.6 52.9#

77 0.0 25.1 37.7#



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





#38

Carbon Tetrachloride

Concen: 6.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

Instrument :

MSVOA_W

ClientSampleId :

STOCK-PILE-1

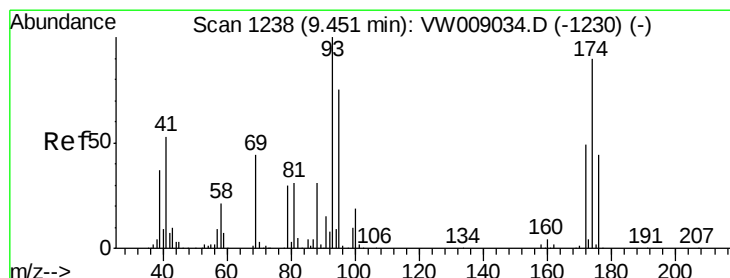
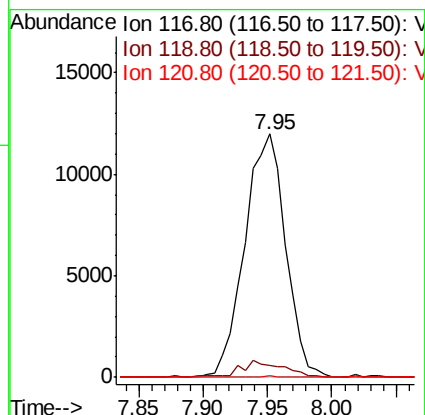
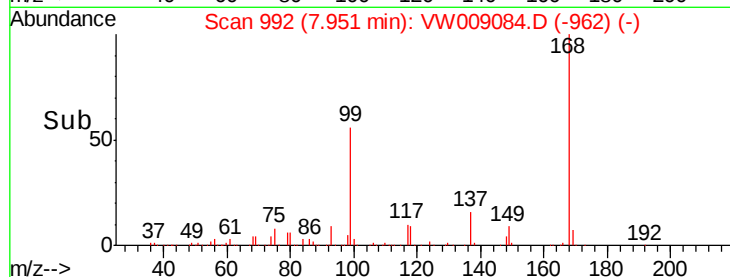
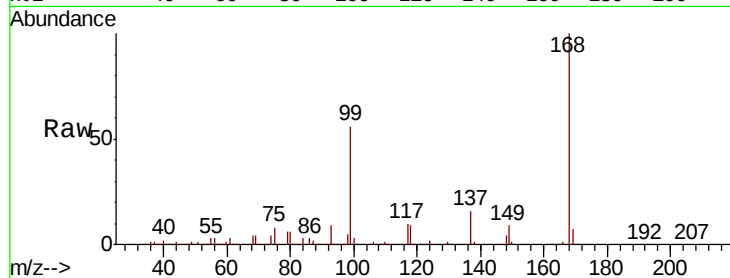
Tgt Ion:117 Resp: 26262

Ion Ratio Lower Upper

117 100

119 4.7 74.6 112.0#

121 0.8 24.7 37.1#



#49

1,4-Dioxane

Concen: 1.083 ug/l

RT: 9.53 min Scan# 1251

Delta R.T. 0.08 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

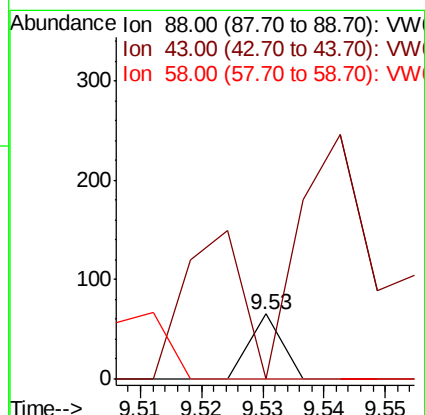
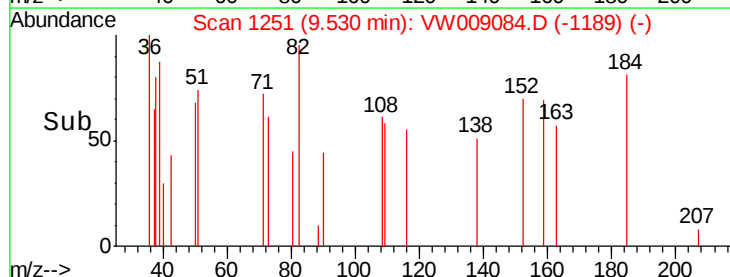
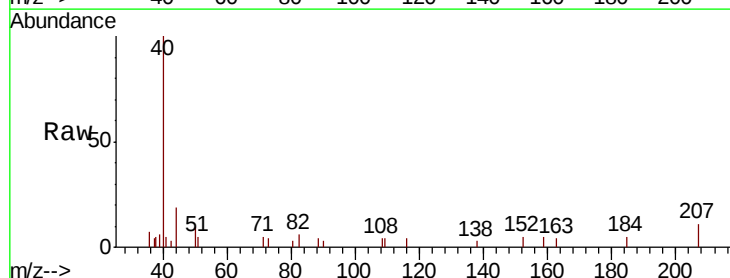
Tgt Ion: 88 Resp: 24

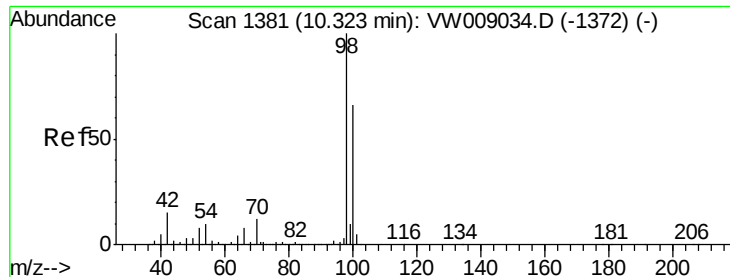
Ion Ratio Lower Upper

88 100

43 408.3 29.0 43.4#

58 0.0 59.2 88.8#





#50

Toluene-d8

Concen: 45.819 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

Instrument :

MSVOA_W

ClientSampleId :

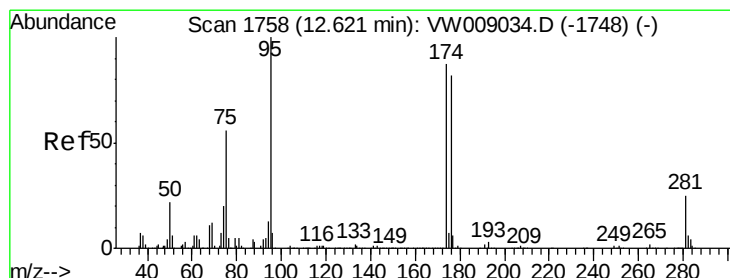
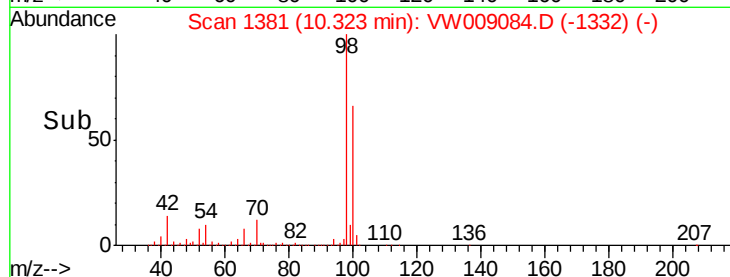
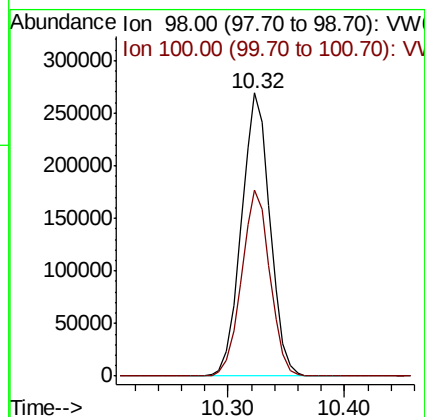
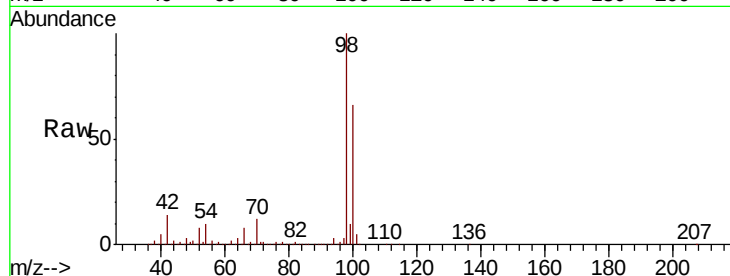
STOCK-PILE-1

Tgt Ion: 98 Resp: 459228

Ion Ratio Lower Upper

98 100

100 65.3 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 24.880 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

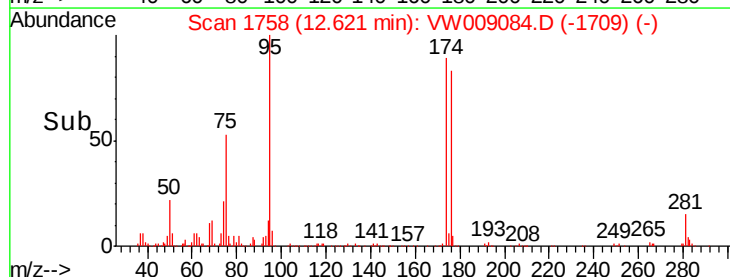
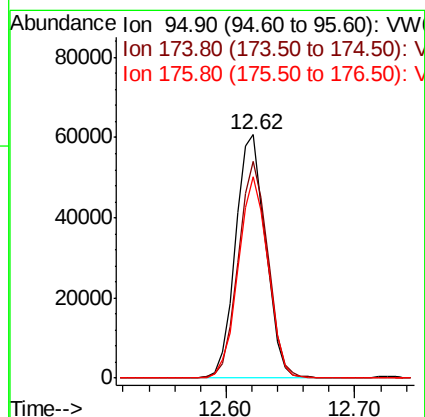
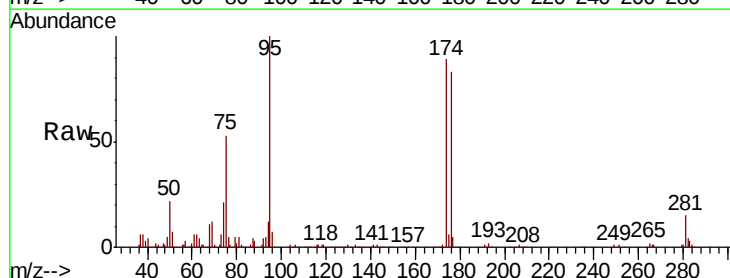
Tgt Ion: 95 Resp: 98165

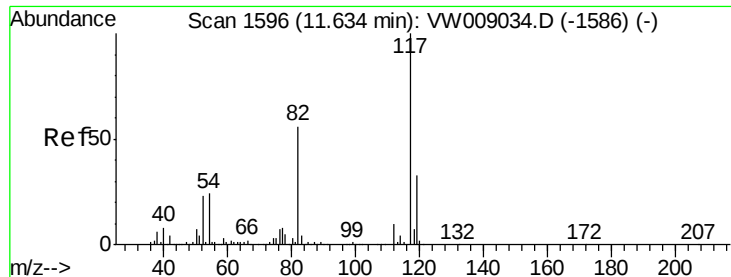
Ion Ratio Lower Upper

95 100

174 88.2 0.0 167.0

176 81.7 0.0 159.4

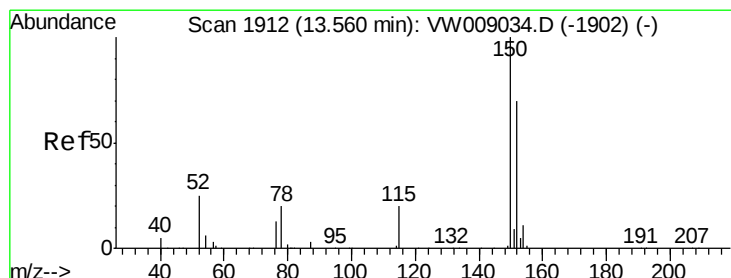
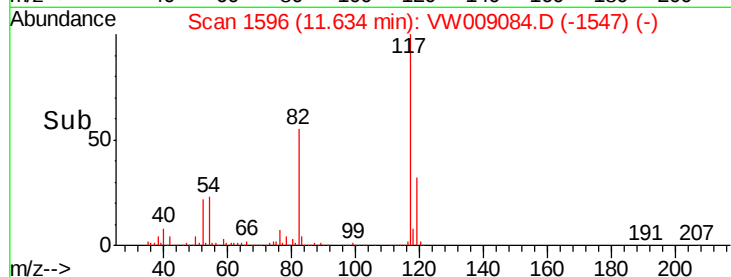
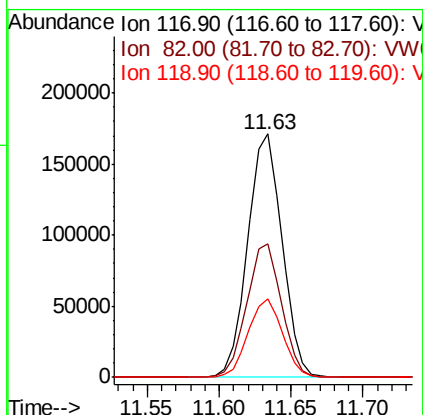
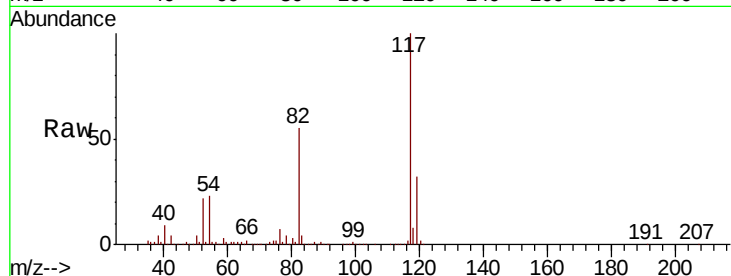




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

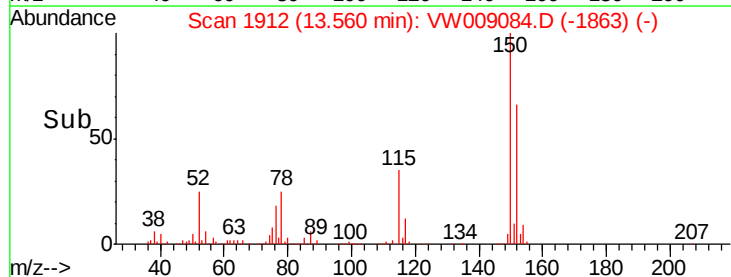
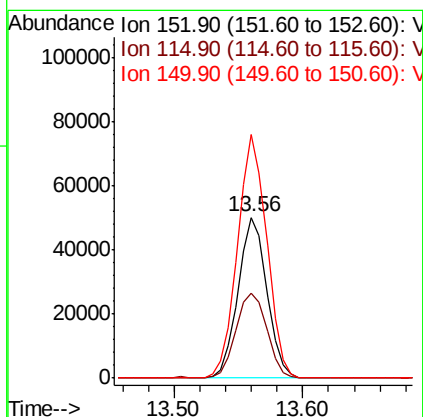
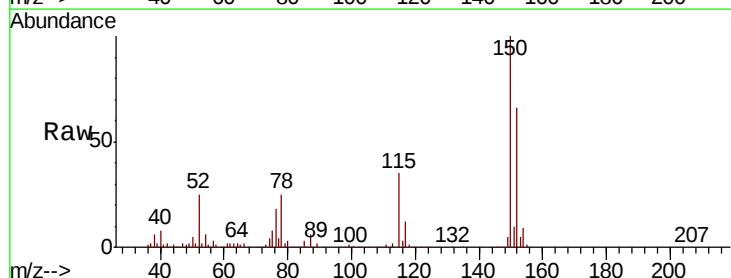
Instrument :
MSVOA_W
ClientSampleId :
STOCK-PILE-1

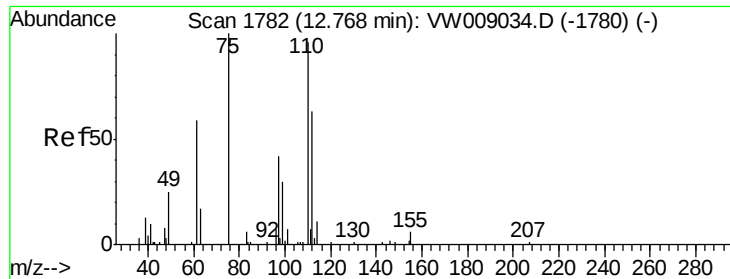
Tgt Ion:117 Resp: 282483
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.6
119 32.1 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW009084.D
Acq: 11 Mar 2019 14:11

Tgt Ion:152 Resp: 77936
Ion Ratio Lower Upper
152 100
115 56.9 28.9 86.7
150 153.7 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 87.973 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

Instrument :

MSVOA_W

ClientSampleId :

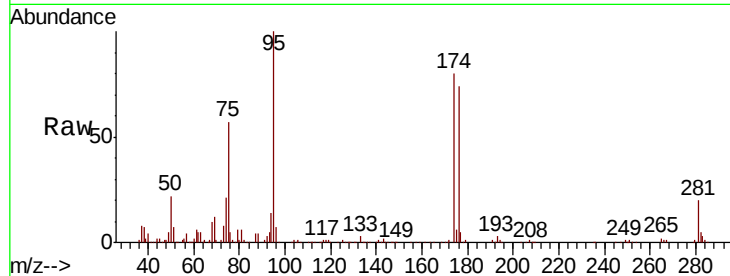
STOCK-PILE-1

Tgt Ion: 75 Resp: 54170

Ion Ratio Lower Upper

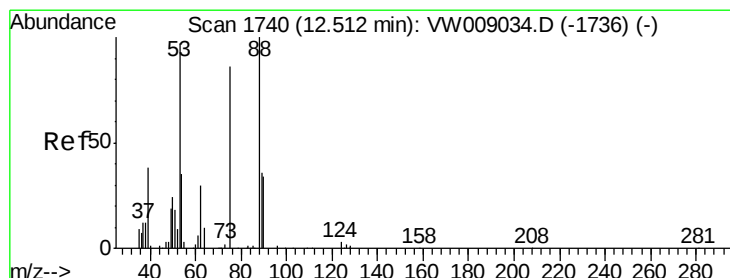
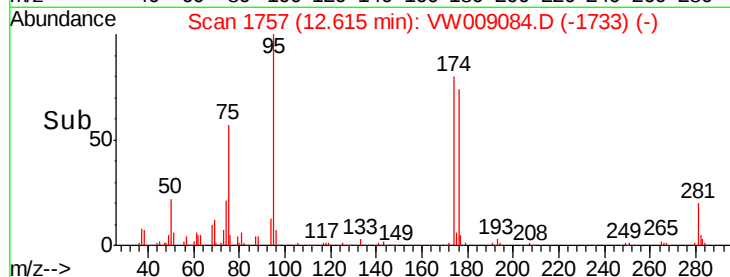
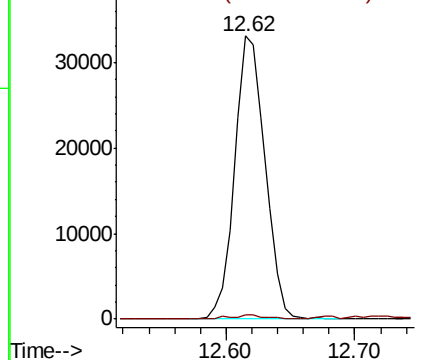
75 100

77 1.8 186.7 560.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 196.772 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009084.D

Acq: 11 Mar 2019 14:11

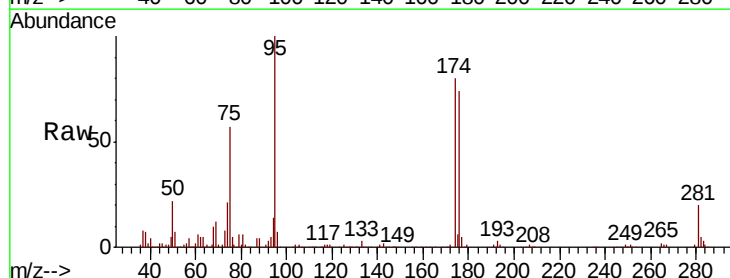
Tgt Ion: 75 Resp: 54170

Ion Ratio Lower Upper

75 100

53 0.5 90.5 135.7#

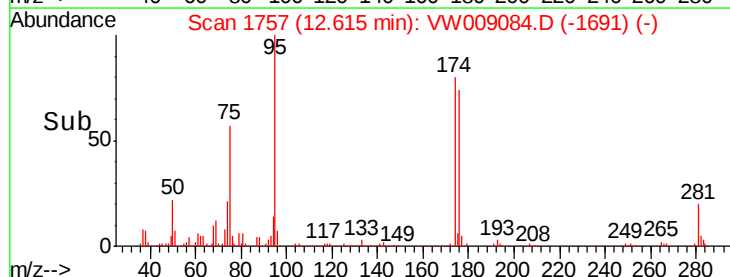
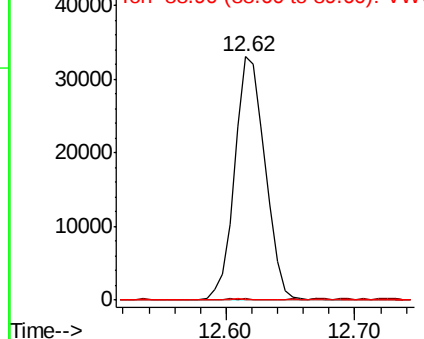
89 0.2 37.5 56.3#

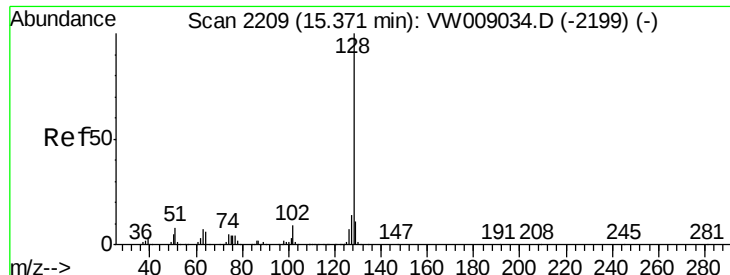


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#95

Naphthalene

Concen: 1.281 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW009084.D

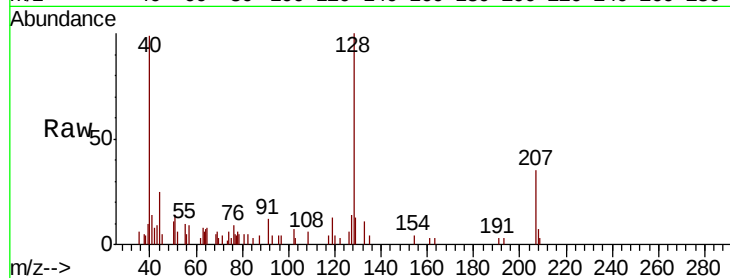
Acq: 11 Mar 2019 14:11

Instrument :

MSVOA_W

ClientSampleId :

STOCK-PILE-1



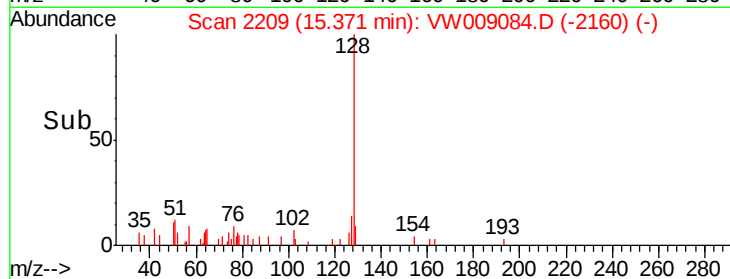
Tgt Ion:128 Resp: 3349

Ion Ratio Lower Upper

128 100

127 15.1 11.0 16.6

129 13.1 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

