

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061019\
 Data File : VX010211.D
 Acq On : 11 Jun 2019 05:23
 Operator : JC/SP
 Sample : K3262-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STOCK-PILE-1

Quant Time: Jun 11 06:21:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	387587	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	346769	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	164423	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	115693	45.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.98%	
35) Dibromofluoromethane	5.50	113	119088	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
50) Toluene-d8	8.71	98	456838	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	
62) 4-Bromofluorobenzene	11.13	95	153668	45.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.84%	

Target Compounds

					Qvalue	
3) Chloromethane	1.32	50	557	0.237	ug/l	# 66
5) Bromomethane	1.65	94	375	0.449	ug/l	88
6) Chloroethane	1.80	64	280	0.251	ug/l	# 70
11) Tert butyl alcohol	3.04	59	617	1.001	ug/l	# 72
13) Acrolein	2.28	56	189	1.682	ug/l	89
16) Acetone	2.45	43	11140	9.416	ug/l	90
18) Methyl Acetate	2.78	43	1781	0.684	ug/l	# 79
20) Methylene Chloride	2.86	84	3477	1.338	ug/l	# 77
25) 2-Butanone	4.70	43	1682	0.955	ug/l	# 40
29) Tetrahydrofuran	5.15	42	1366	1.234	ug/l	97
36) 1,1-Dichloropropene	5.67	75	15280	4.832	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	22321	6.236	ug/l	# 14
43) Isopropyl Acetate	6.45	43	2981	0.542	ug/l	# 80
44) Trichloroethene	7.21	130	773	0.262	ug/l	99
51) 4-Methyl-2-Pentanone	8.61	43	38258	11.642	ug/l	# 52
52) Toluene	8.78	92	2815	0.438	ug/l	98
54) cis-1,3-Dichloropropene	8.62	75	21589	5.082	ug/l	# 50
59) 2-Hexanone	9.54	43	7390	2.820	ug/l	67
76) 1,2,3-Trichloropropane	11.13	75	70881	21.552	ug/l	# 34
81) trans-1,4-Dichloro-2-buten	11.13	75	70881	47.618	ug/l	# 10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Instrument :

MSVOA_X

ClientSampled :

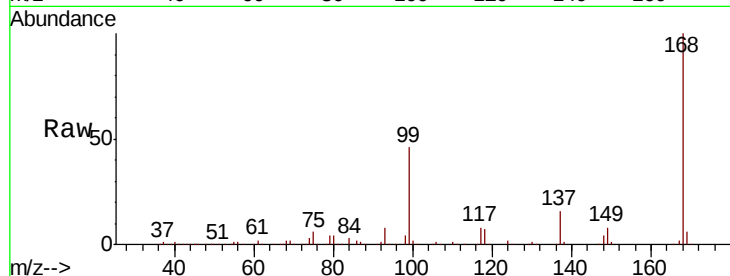
STOCK-PILE-1

Tot Ion:168 Resp: 257705

Ion Ratio Lower Upper

168 100

99 45.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

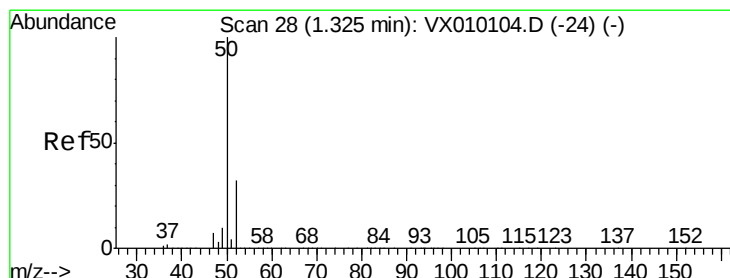
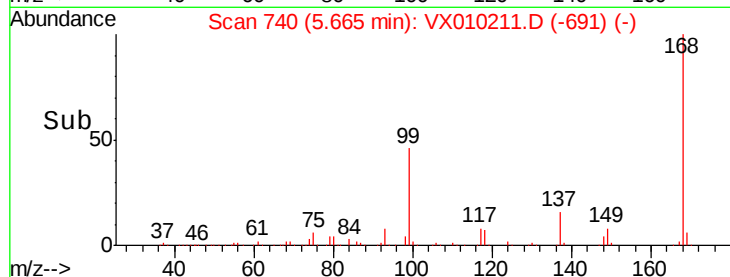
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.237 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX010211.D

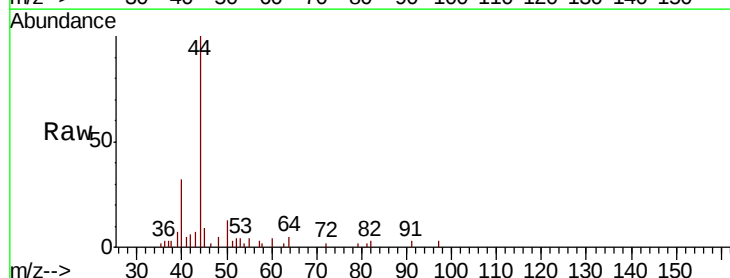
Acq: 11 Jun 2019 05:23

Tgt Ion: 50 Resp: 557

Ion Ratio Lower Upper

50 100

52 13.3 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

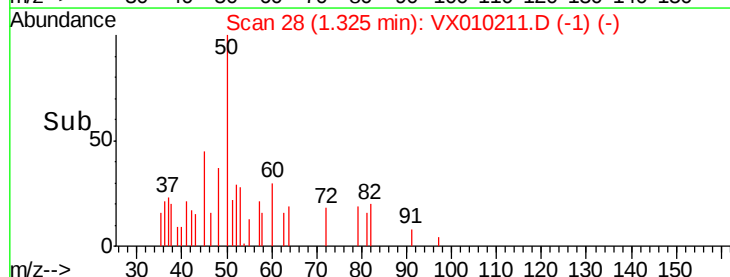
300

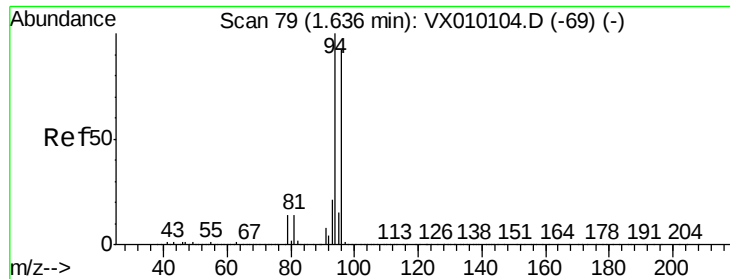
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.449 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Instrument :

MSVOA_X

ClientSampleId :

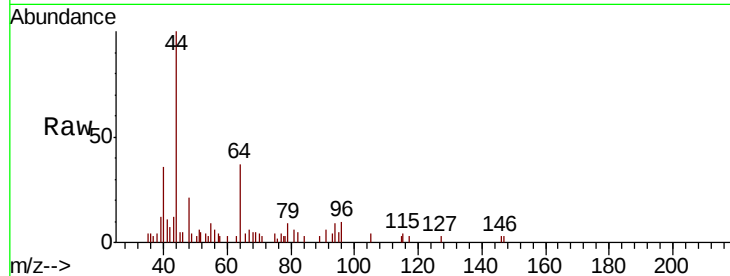
STOCK-PILE-1

Tot Ion: 94 Resp: 375

Ion Ratio Lower Upper

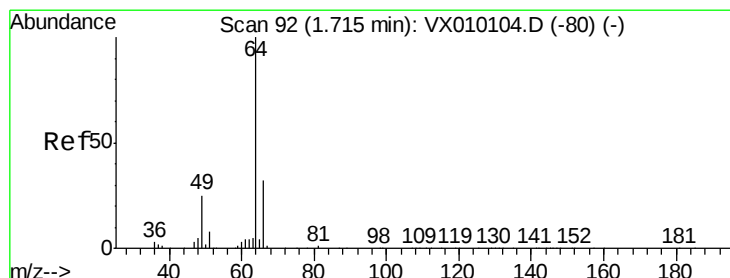
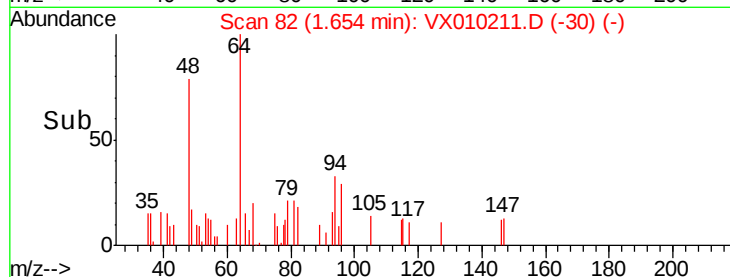
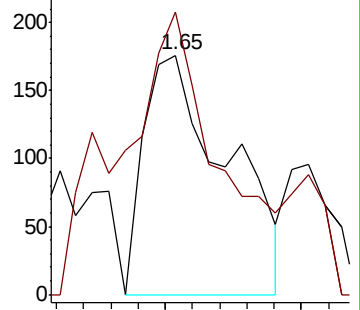
94 100

96 84.1 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.251 ug/l

RT: 1.80 min Scan# 106

Delta R.T. 0.09 min

Lab File: VX010211.D

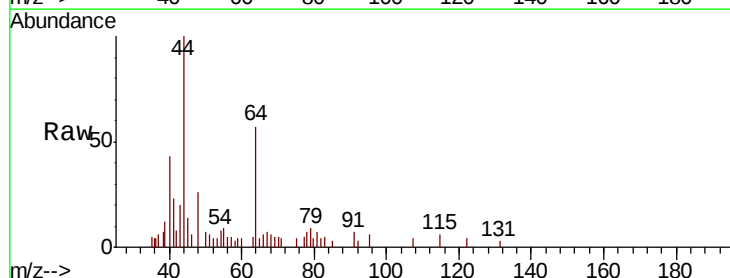
Acq: 11 Jun 2019 05:23

Tgt Ion: 64 Resp: 280

Ion Ratio Lower Upper

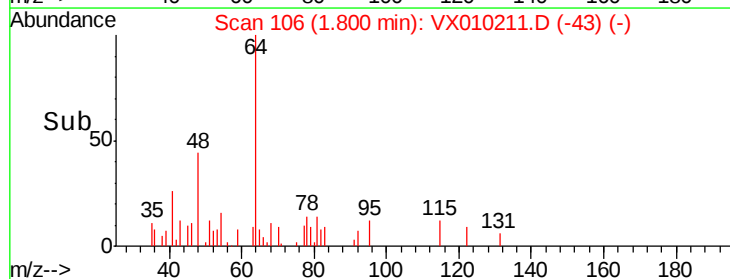
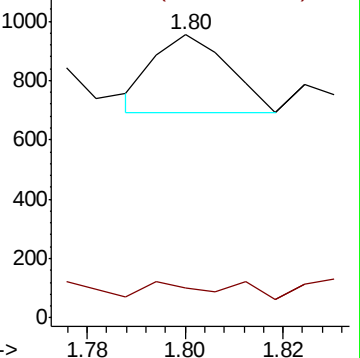
64 100

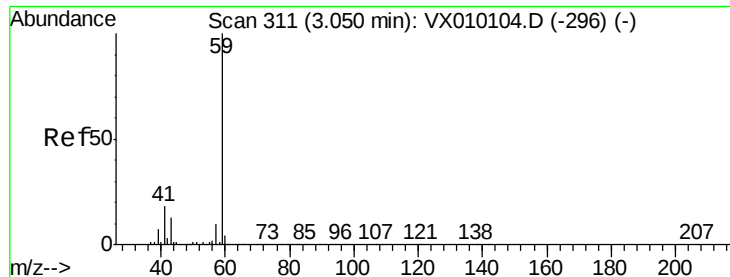
66 14.8 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



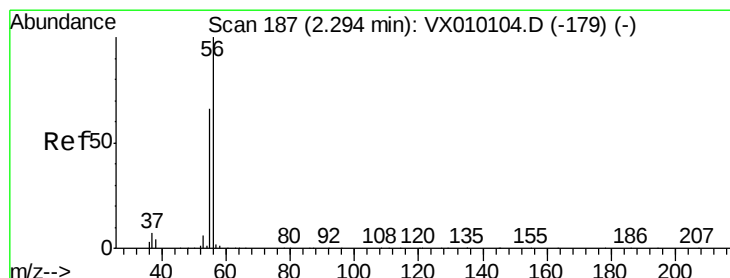
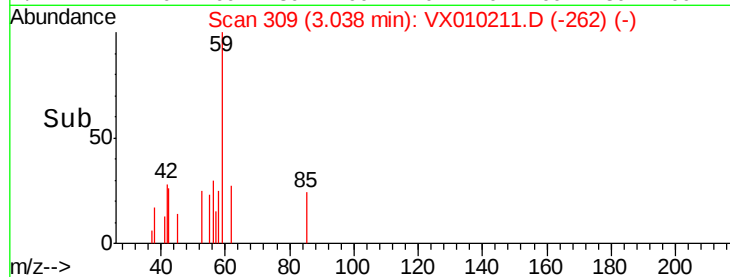
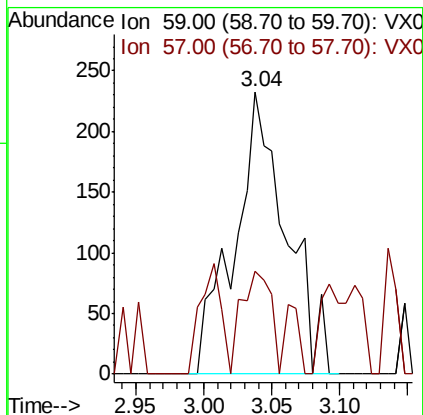
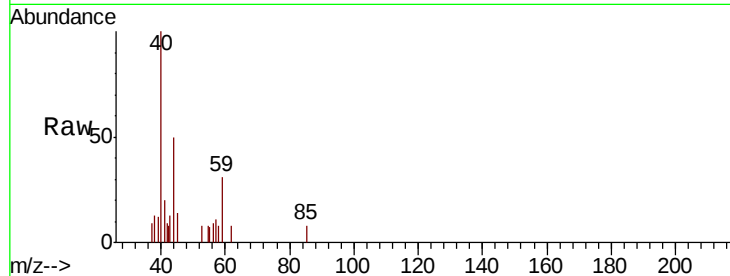


#11

Tert butyl alcohol
 Concen: 1.001 ug/l
 RT: 3.04 min Scan# 309
 Delta R.T. -0.01 min
 Lab File: VX010211.D
 Acq: 11 Jun 2019 05:23

Instrument :
 MSVOA_X
 ClientSampled :
 STOCK-PILE-1

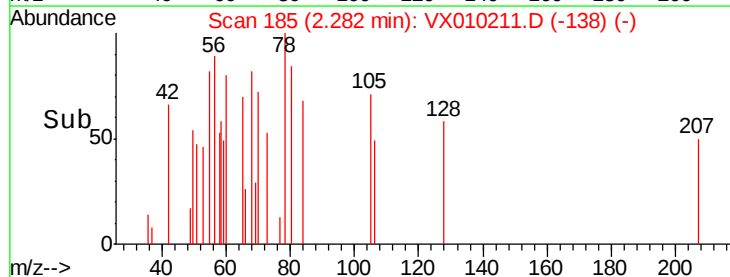
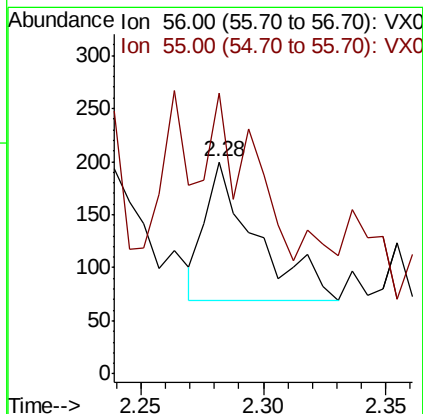
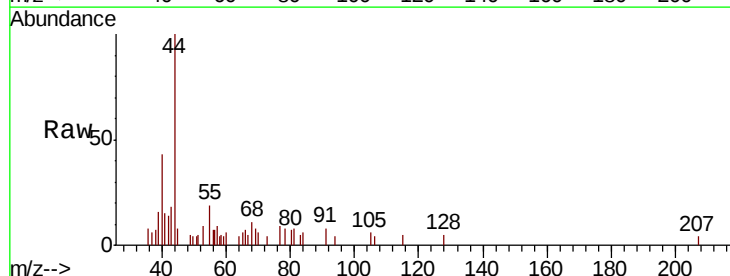
Tot Ion: 59 Resp: 617
 Ion Ratio Lower Upper
 59 100
 57 20.7 8.2 12.2#

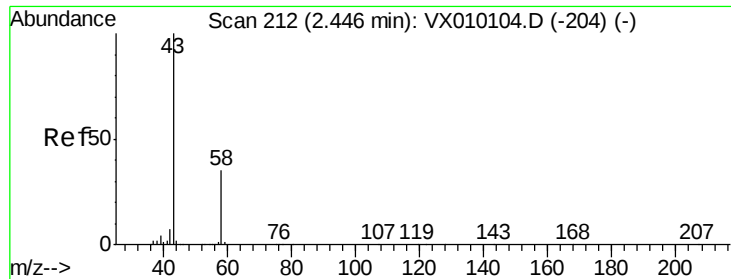


#13

Acrolein
 Concen: 1.682 ug/l
 RT: 2.28 min Scan# 185
 Delta R.T. -0.01 min
 Lab File: VX010211.D
 Acq: 11 Jun 2019 05:23

Tgt Ion: 56 Resp: 189
 Ion Ratio Lower Upper
 56 100
 55 61.9 57.0 85.4





#16

Acetone

Concen: 9.416 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Instrument :

MSVOA_X

ClientSampleId :

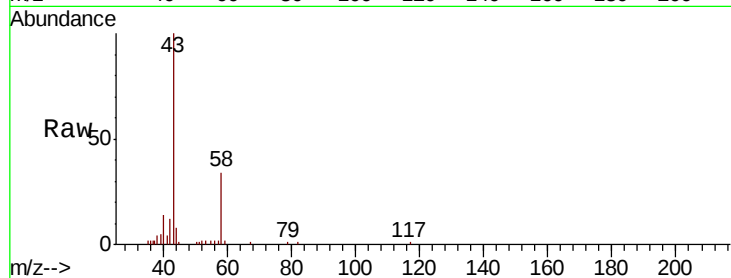
STOCK-PILE-1

Tot Ion: 43 Resp: 11140

Ion Ratio Lower Upper

43 100

58 34.2 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8000

6000

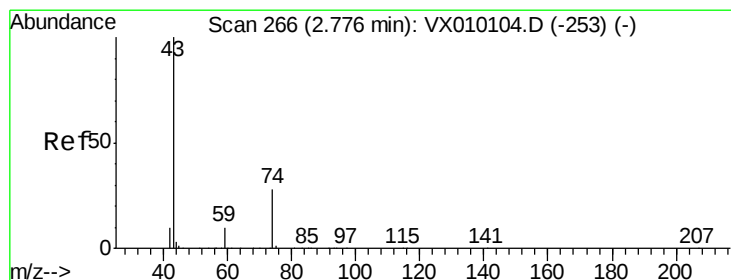
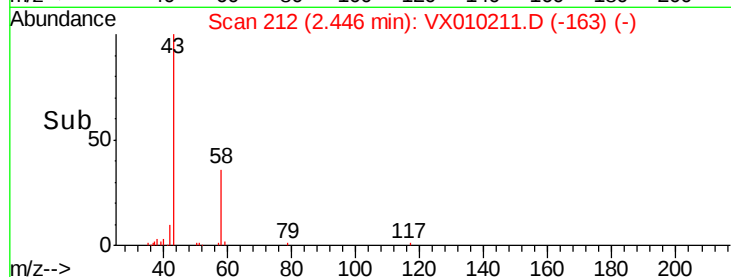
4000

2000

0

2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: 0.684 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX010211.D

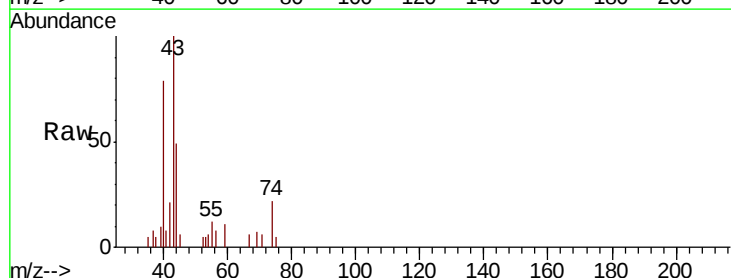
Acq: 11 Jun 2019 05:23

Tgt Ion: 43 Resp: 1781

Ion Ratio Lower Upper

43 100

74 29.1 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1200

1000

800

600

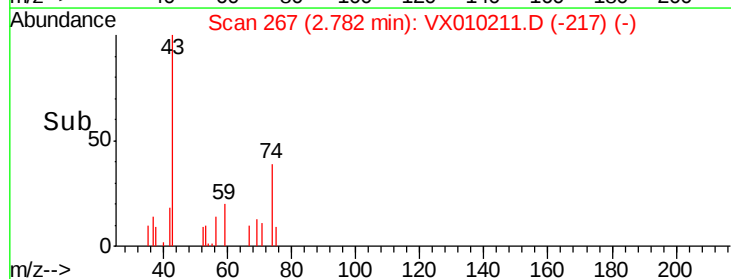
400

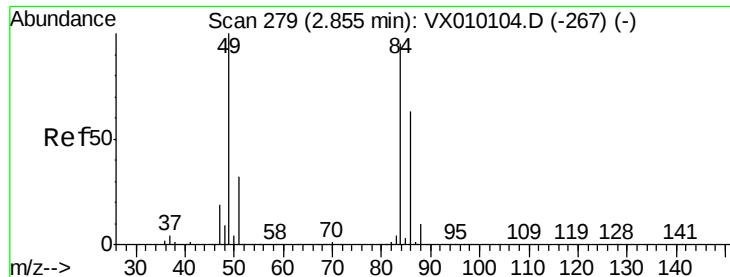
200

0

2.70 2.75 2.80

Time-->





#20

Methylene Chloride

Concen: 1.338 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Instrument :

MSVOA_X

ClientSampleId :

STOCK-PILE-1

Tot Ion: 84 Resp: 3477

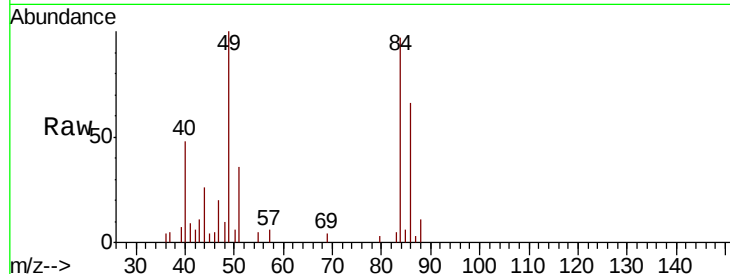
Ion Ratio Lower Upper

84 100

49 103.4 115.8 173.6#

51 37.4 34.4 51.6

86 67.8 49.7 74.5



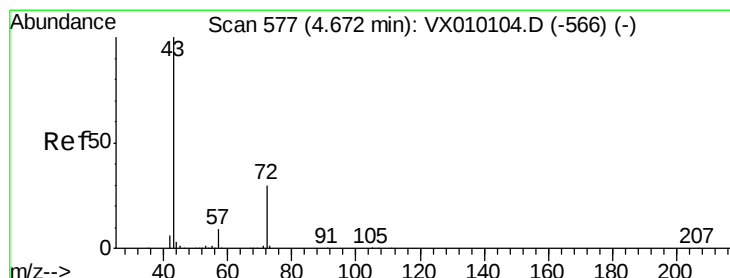
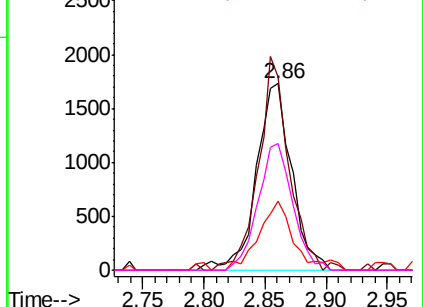
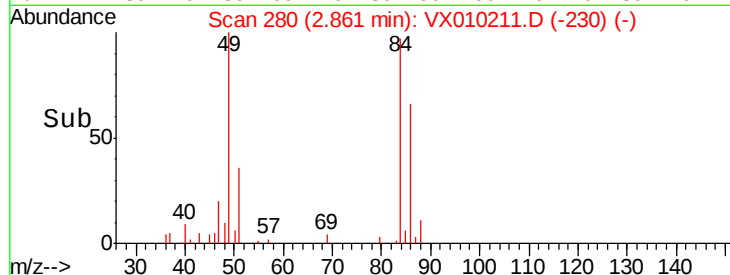
Abundance

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



#25

2-Butanone

Concen: 0.955 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX010211.D

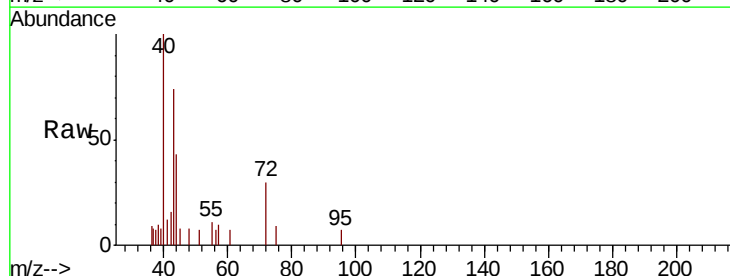
Acq: 11 Jun 2019 05:23

Tgt Ion: 43 Resp: 1682

Ion Ratio Lower Upper

43 100

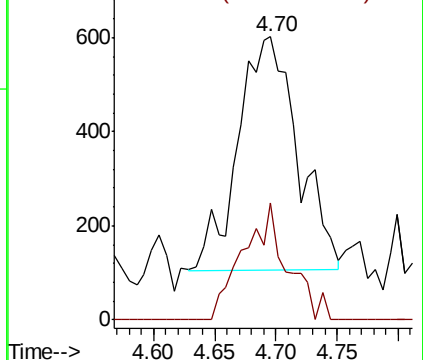
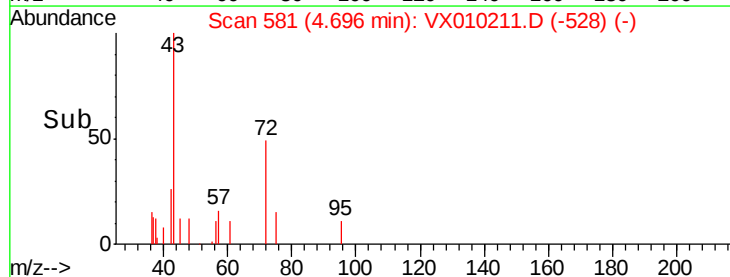
72 50.3 17.5 26.3#

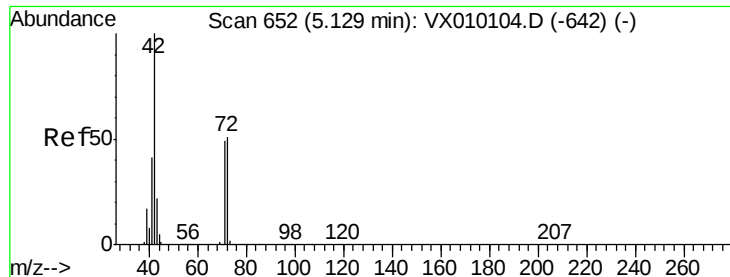


Abundance

Ion 43.00 (42.70 to 43.30): VX0

Ion 72.00 (71.70 to 72.30): VX0

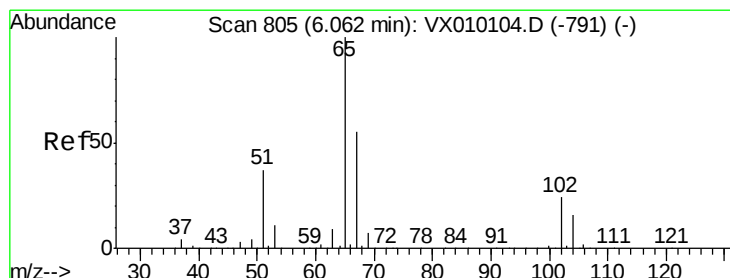
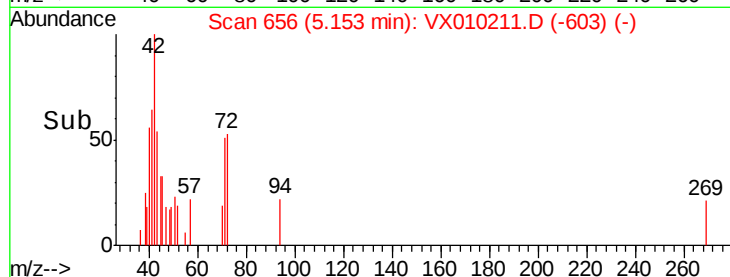
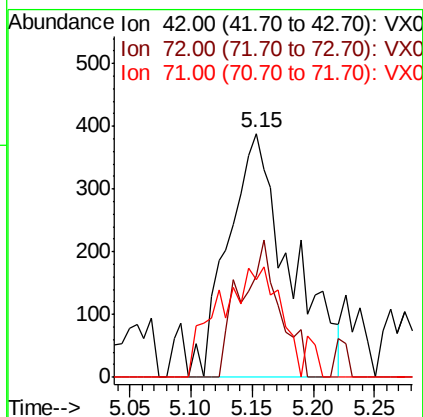
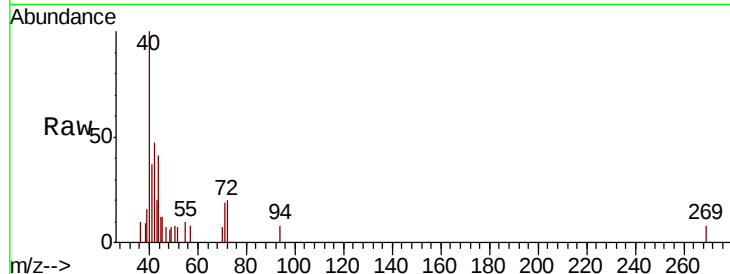




#29
Tetrahydrofuran
Concen: 1.234 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.02 min
Lab File: VX010211.D
Acq: 11 Jun 2019 05:23

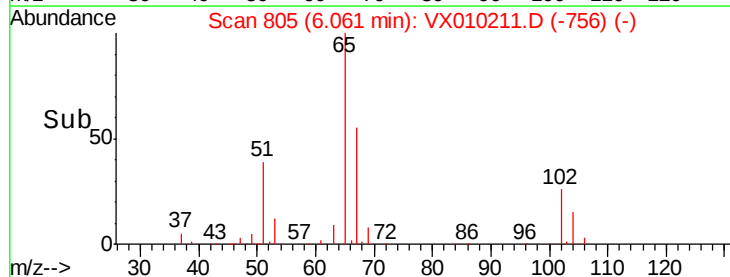
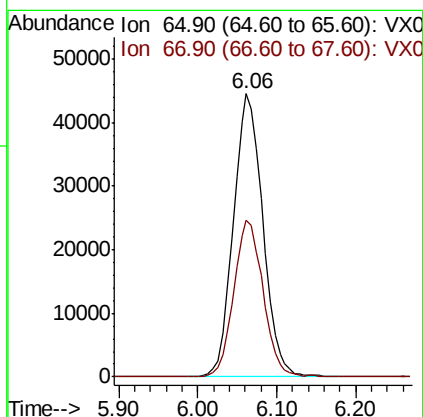
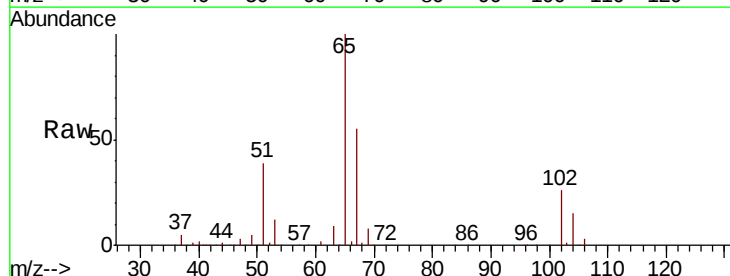
Instrument :
MSVOA_X
ClientSampled :
STOCK-PILE-1

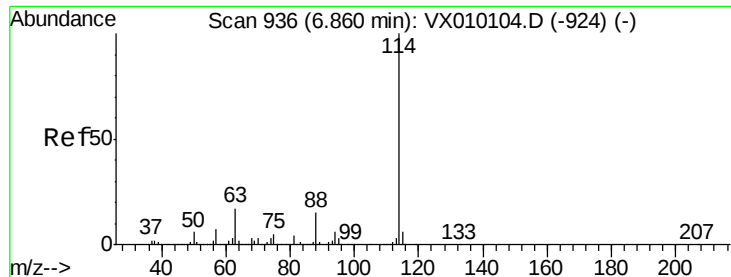
Tot Ion: 42 Resp: 1366
Ion Ratio Lower Upper
42 100
72 35.9 29.2 43.8
71 31.6 27.6 41.4



#33
1,2-Dichloroethane-d4
Concen: 45.992 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010211.D
Acq: 11 Jun 2019 05:23

Tgt Ion: 65 Resp: 115693
Ion Ratio Lower Upper
65 100
67 54.9 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Instrument :

MSVOA_X

ClientSampleId :

STOCK-PILE-1

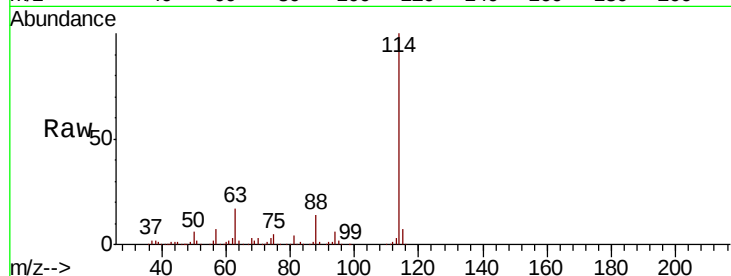
Tot Ion:114 Resp: 387587

Ion Ratio Lower Upper

114 100

63 16.8 0.0 47.4

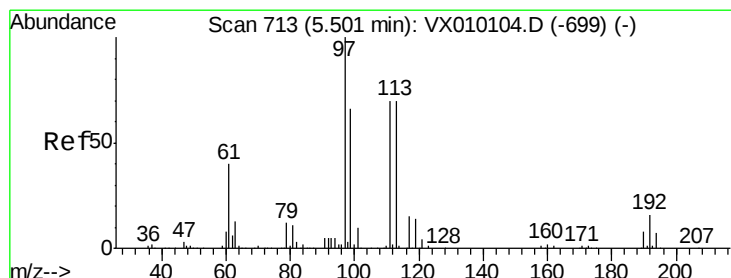
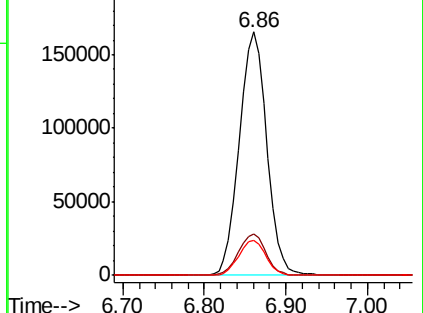
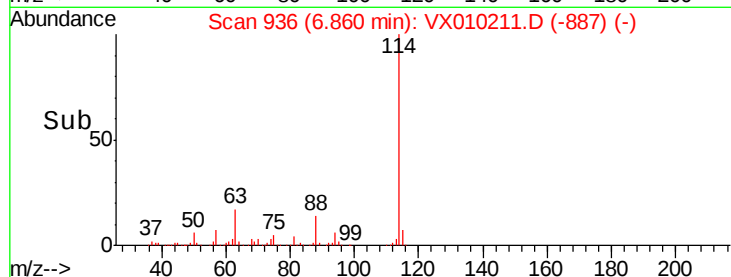
88 14.3 0.0 33.0



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: 49.812 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

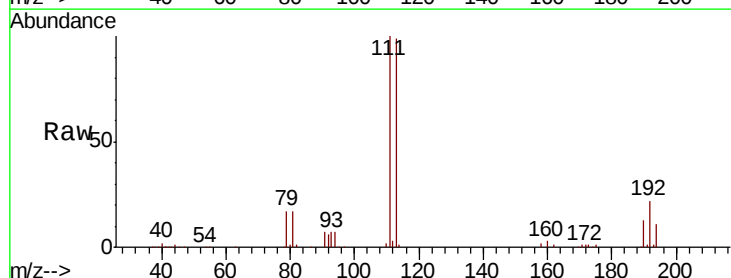
Tgt Ion:113 Resp: 119088

Ion Ratio Lower Upper

113 100

111 101.4 82.2 123.2

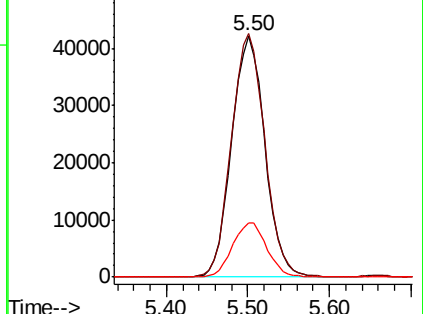
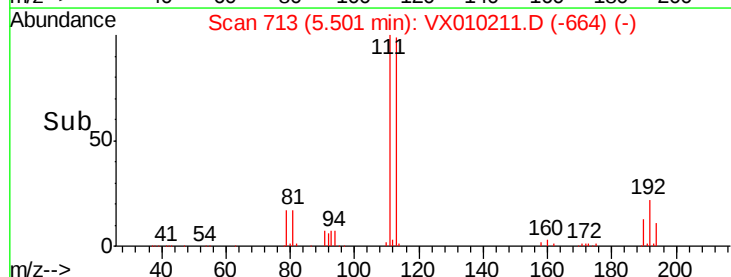
192 23.3 17.1 25.7

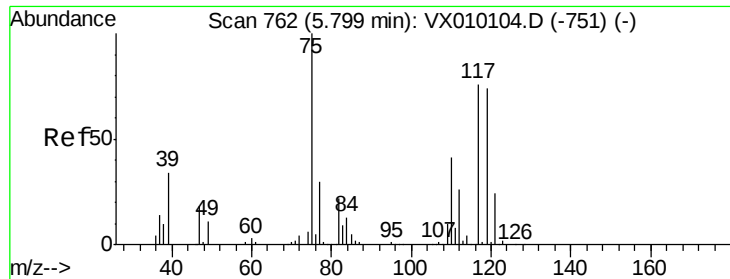


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

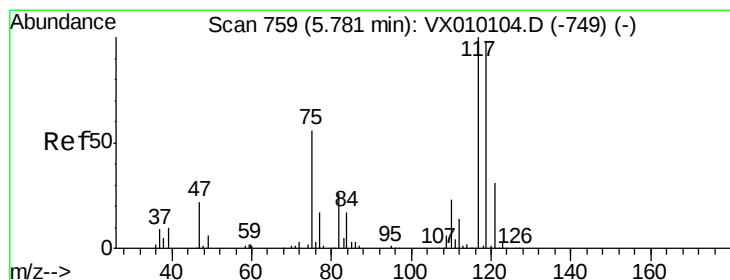
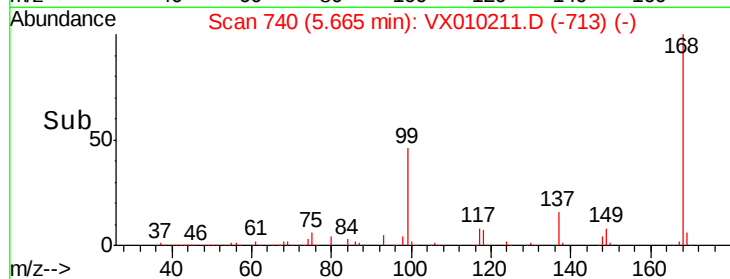
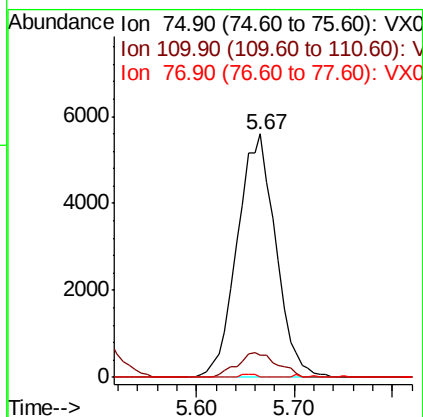
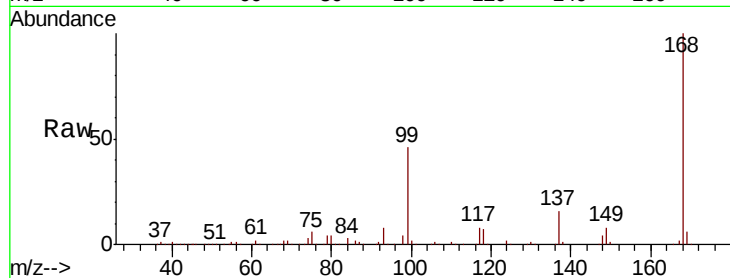




#36
 1,1-Dichloropropene
 Concen: 4.832 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX010211.D
 Acq: 11 Jun 2019 05:23

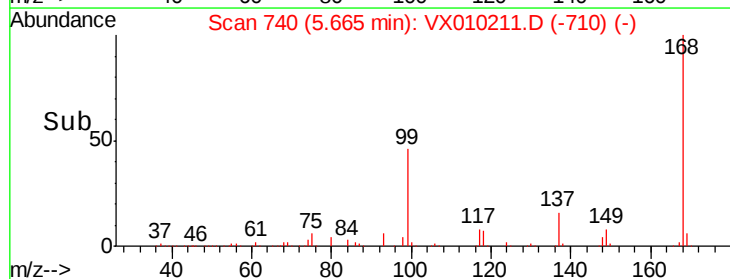
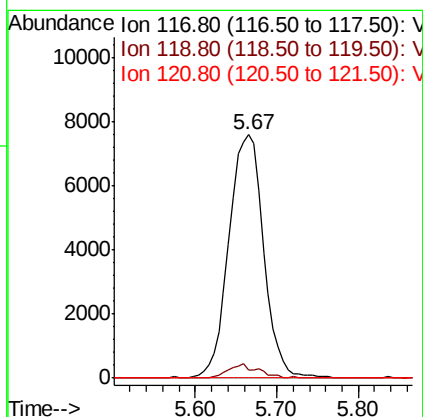
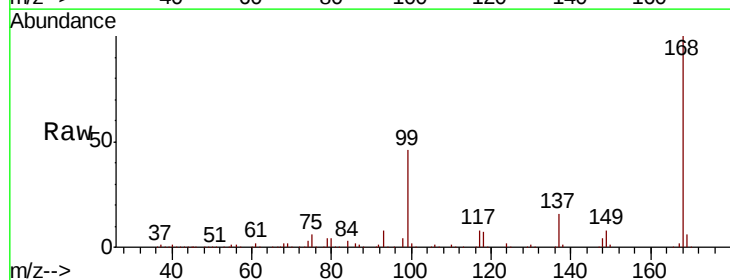
Instrument :
 MSVOA_X
 ClientSampleId :
 STOCK-PILE-1

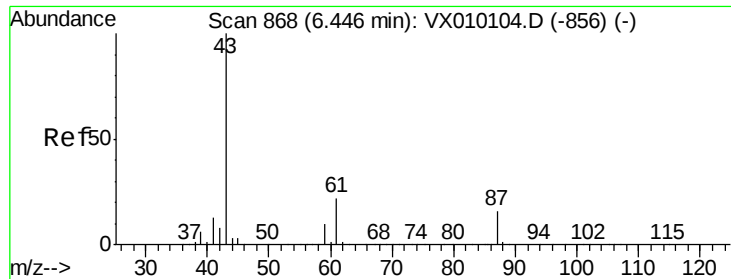
Tot Ion	75	Resp	15280
Ion Ratio	100	Lower	Upper
75	100		
110	10.4	16.7	50.1#
77	0.4	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.236 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX010211.D
 Acq: 11 Jun 2019 05:23

Tgt Ion	117	Resp	22321
Ion Ratio	100	Lower	Upper
117	100		
119	3.3	77.3	115.9#
121	0.0	25.4	38.0#





#43

Isopropyl Acetate

Concen: 0.542 ug/l

RT: 6.45 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Instrument :

MSVOA_X

ClientSampleId :

STOCK-PILE-1

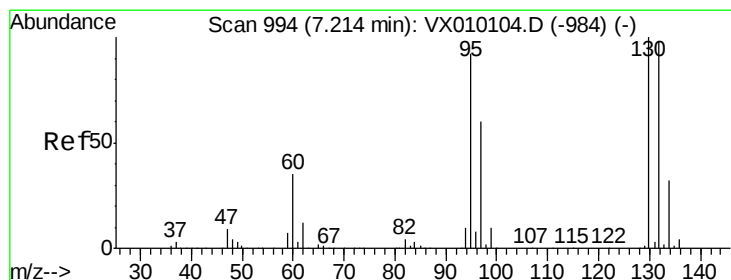
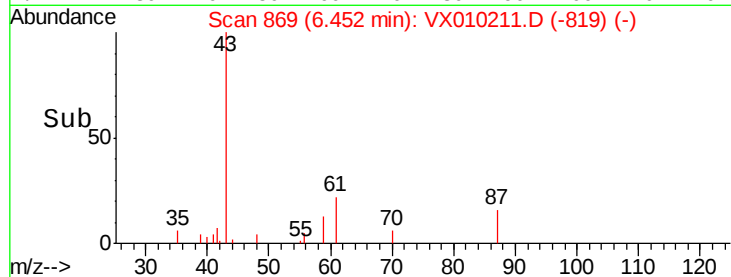
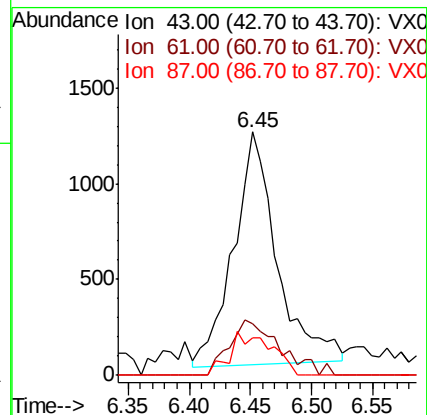
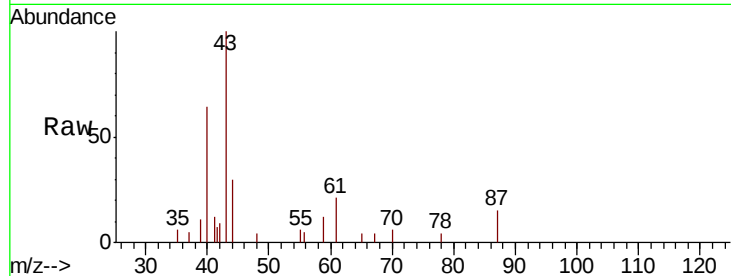
Tot Ion: 43 Resp: 2981

Ion Ratio Lower Upper

43 100

61 27.9 14.6 21.8#

87 17.8 8.7 13.1#



#44

Trichloroethene

Concen: 0.262 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010211.D

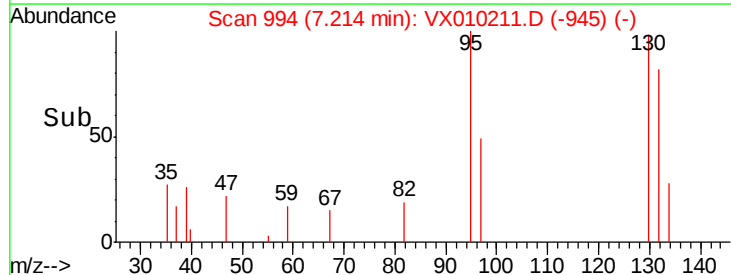
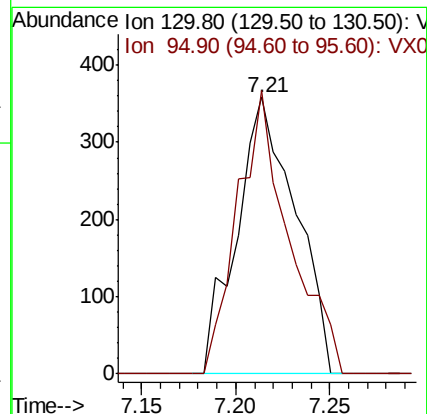
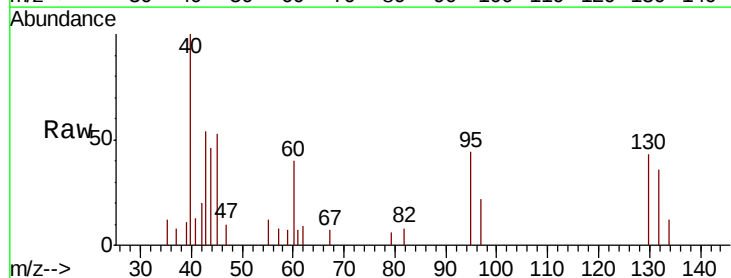
Acq: 11 Jun 2019 05:23

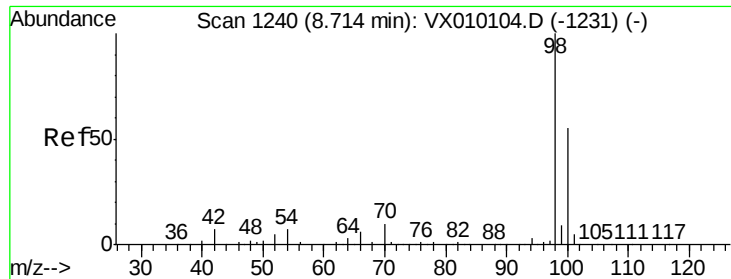
Tgt Ion:130 Resp: 773

Ion Ratio Lower Upper

130 100

95 102.5 0.0 207.4





#50

Toluene-d8

Concen: 50.986 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Instrument :

MSVOA_X

ClientSampleId :

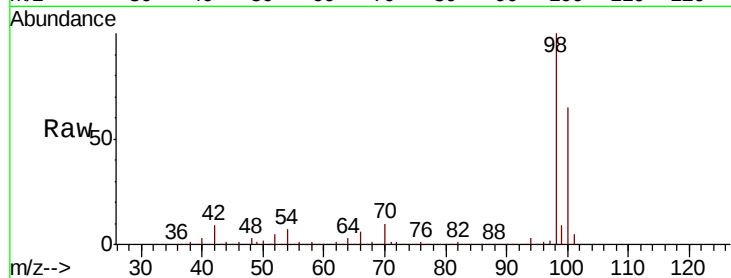
STOCK-PILE-1

Tot Ion: 98 Resp: 456838

Ion Ratio Lower Upper

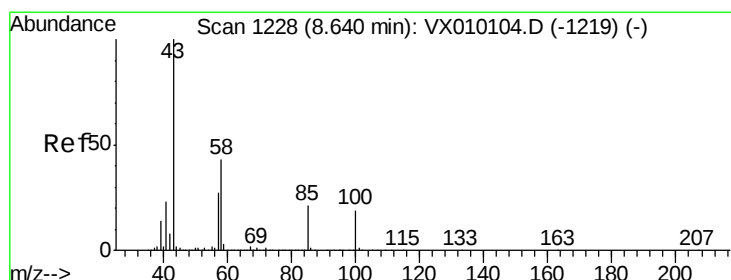
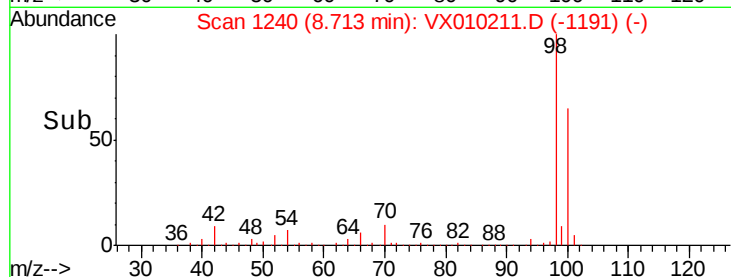
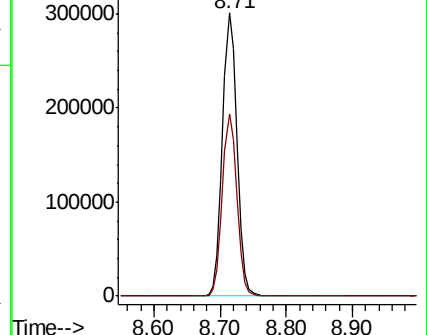
98 100

100 64.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 11.642 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX010211.D

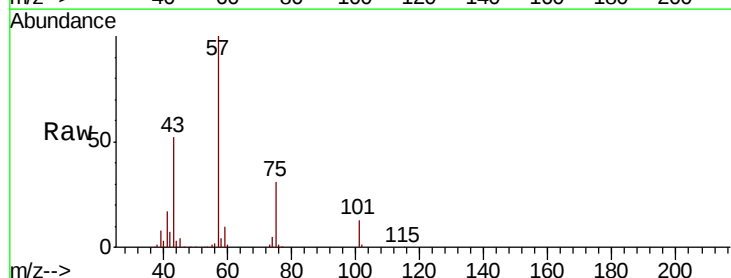
Acq: 11 Jun 2019 05:23

Tgt Ion: 43 Resp: 38258

Ion Ratio Lower Upper

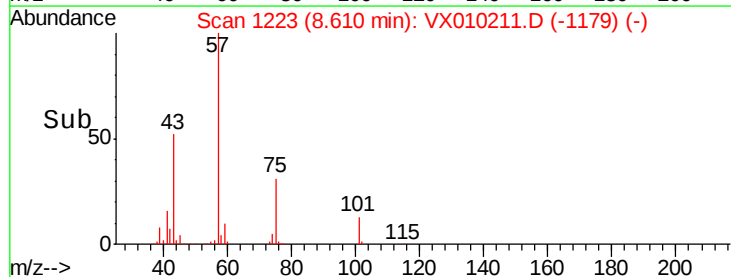
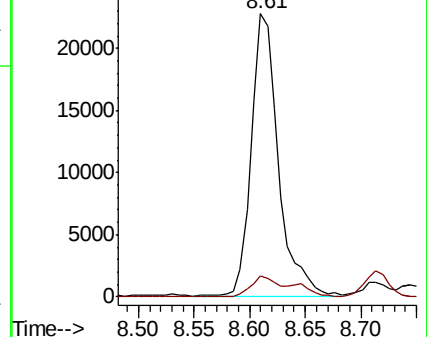
43 100

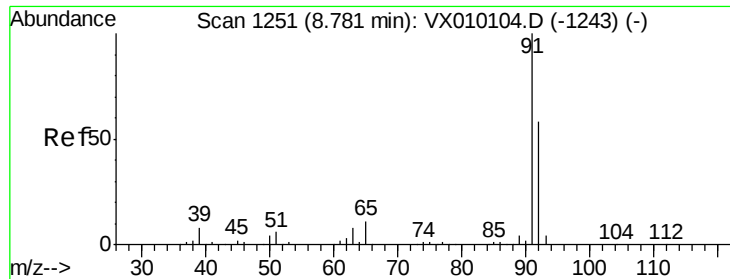
58 7.7 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

Toluene

Concen: 0.438 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Instrument :

MSVOA_X

ClientSampleId :

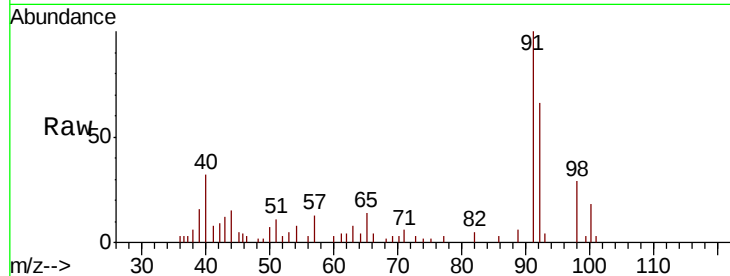
STOCK-PILE-1

Tot Ion: 92 Resp: 2815

Ion Ratio Lower Upper

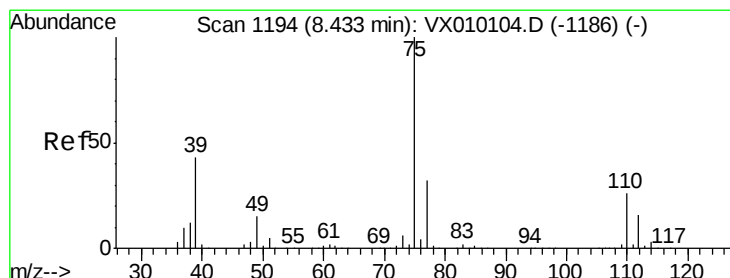
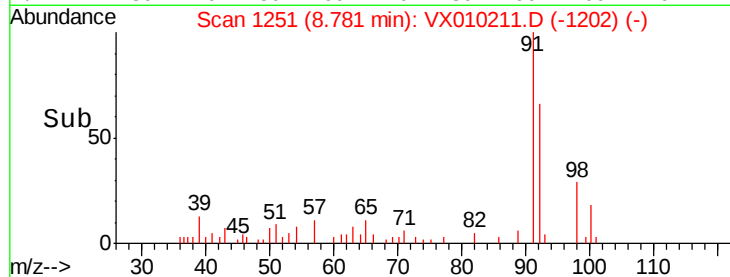
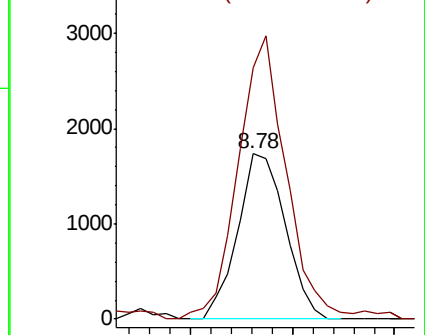
92 100

91 171.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 5.082 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

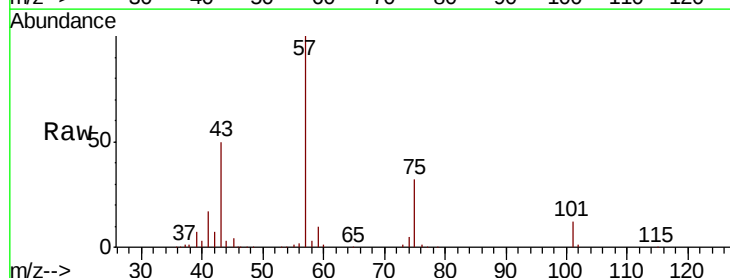
Tgt Ion: 75 Resp: 21589

Ion Ratio Lower Upper

75 100

77 0.9 24.8 37.2#

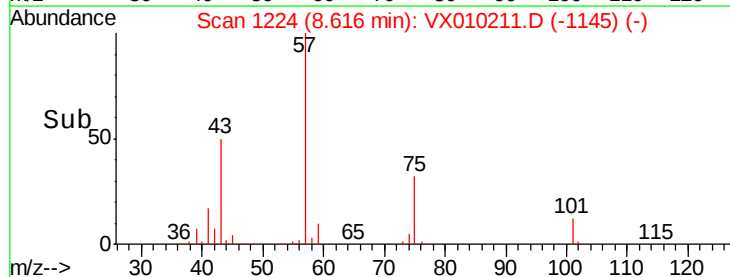
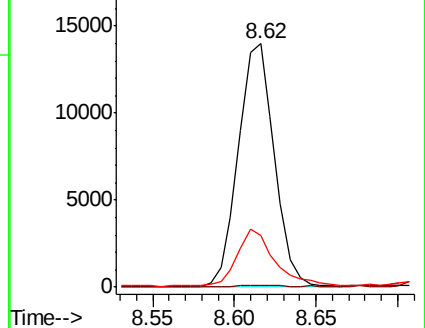
39 20.4 43.4 65.0#

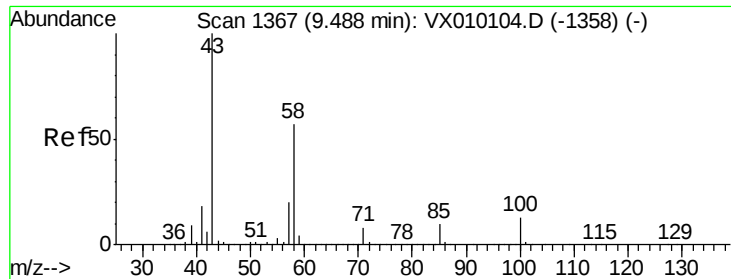


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

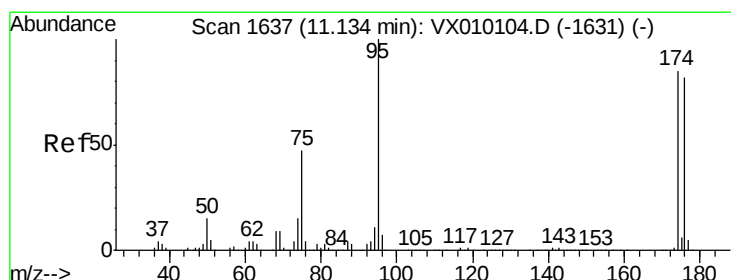
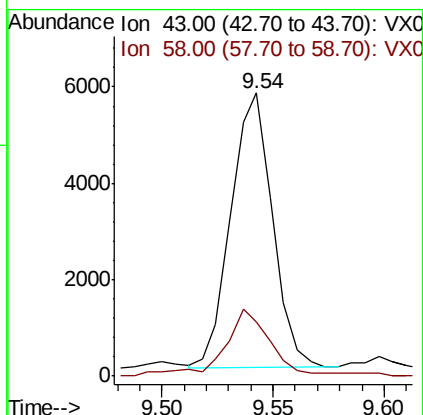
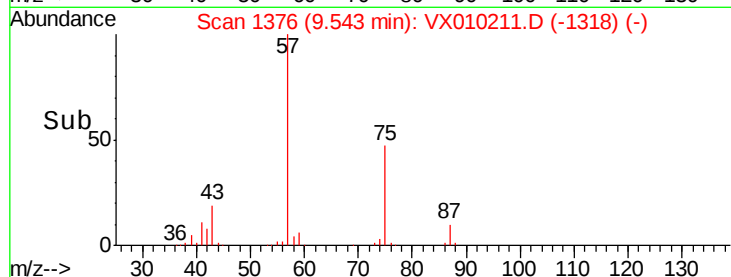
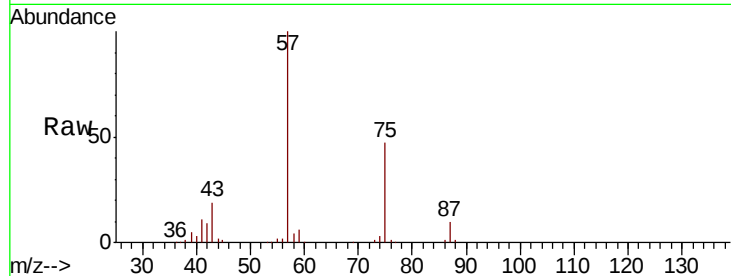




#59
2-Hexanone
Concen: 2.820 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX010211.D
Acq: 11 Jun 2019 05:23

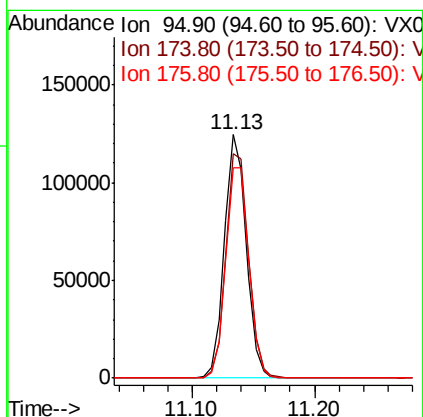
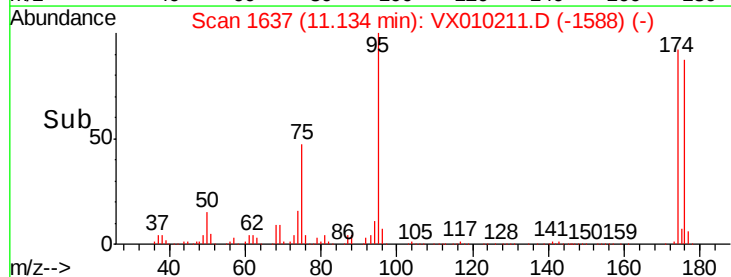
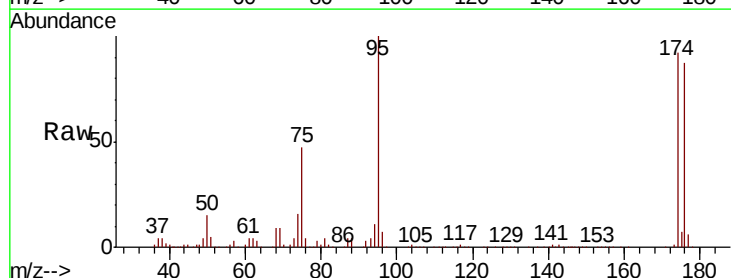
Instrument :
MSVOA_X
ClientSampleId :
STOCK-PILE-1

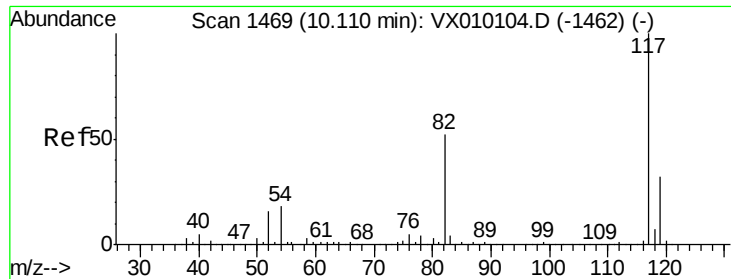
Tot Ion: 43 Resp: 7390
Ion Ratio Lower Upper
43 100
58 27.2 25.1 75.3



#62
4-Bromofluorobenzene
Concen: 45.923 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010211.D
Acq: 11 Jun 2019 05:23

Tgt Ion: 95 Resp: 153668
Ion Ratio Lower Upper
95 100
174 95.8 0.0 160.4
176 91.8 0.0 154.6

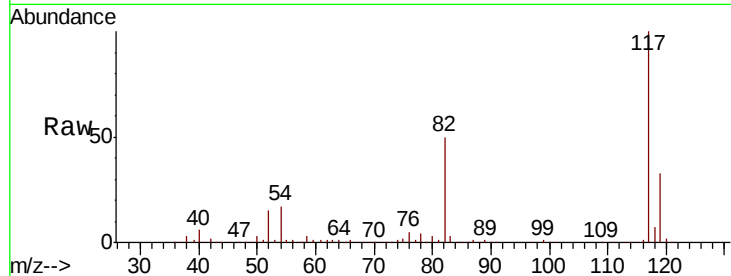




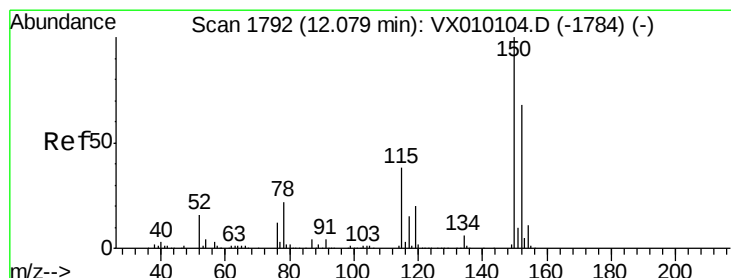
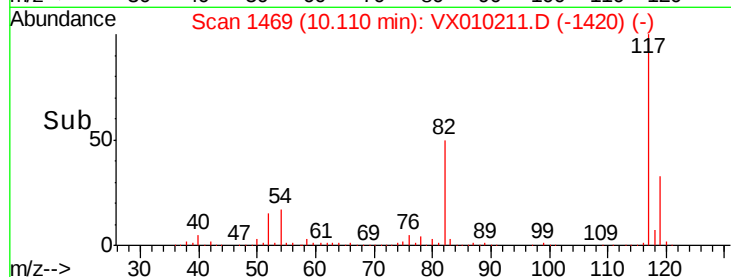
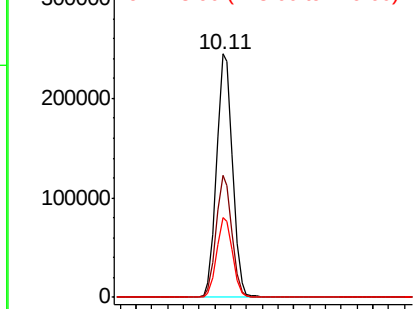
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010211.D
Acq: 11 Jun 2019 05:23

Instrument :
MSVOA_X
ClientSampleId :
STOCK-PILE-1

Tot Ion:117 Resp: 346769
Ion Ratio Lower Upper
117 100
82 50.2 49.2 73.8
119 32.7 25.2 37.8

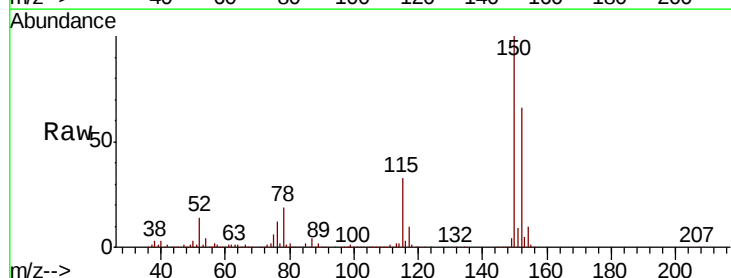


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

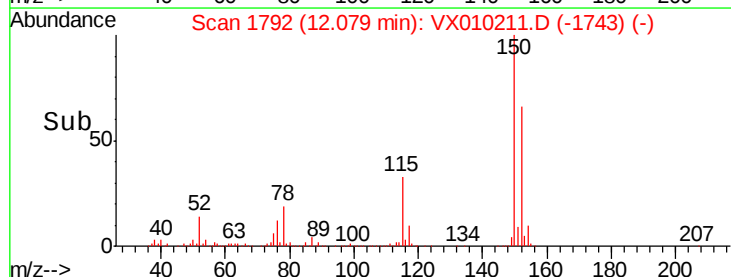
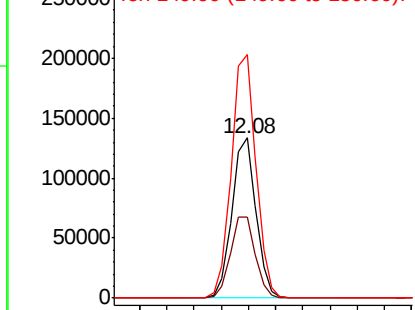


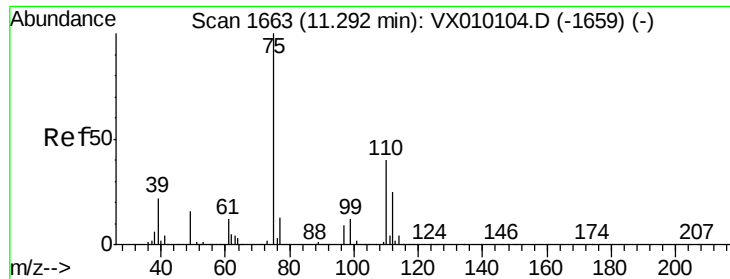
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010211.D
Acq: 11 Jun 2019 05:23

Tgt Ion:152 Resp: 164423
Ion Ratio Lower Upper
152 100
115 52.7 41.4 124.2
150 155.2 0.0 345.2



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: 21.552 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Instrument :

MSVOA_X

ClientSampleId :

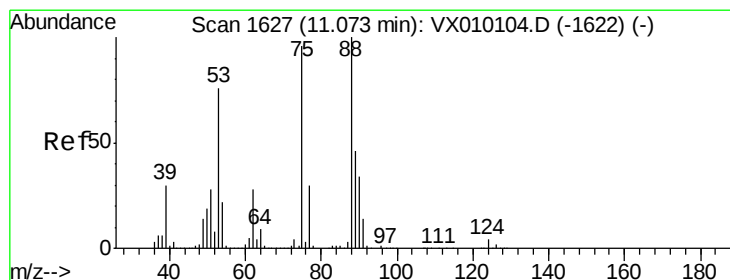
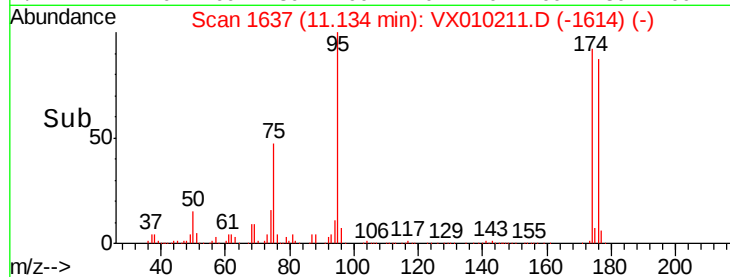
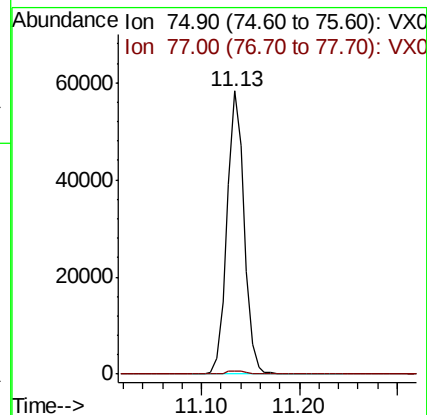
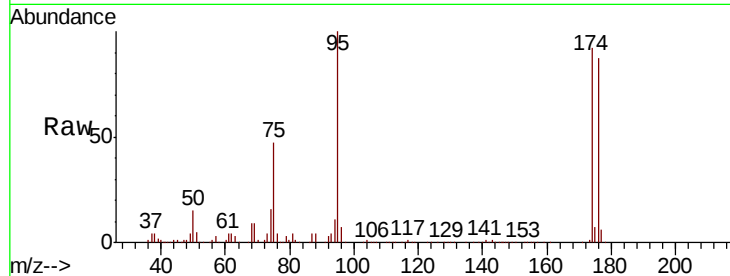
STOCK-PILE-1

Tot Ion: 75 Resp: 70881

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 47.618 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010211.D

Acq: 11 Jun 2019 05:23

Tgt Ion: 75 Resp: 70881

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.0 34.2 51.4#

