

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061919\
 Data File : VW010875.D
 Acq On : 20 Jun 2019 04:55
 Operator : SY/VA
 Sample : K3447-03
 Misc : 5.09G/5ML/MSVOA W/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SIDEWALL-1

Quant Time: Jun 20 05:52:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 05 03:21:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	21899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	34349	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	25604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	5911	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	13869	53.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.46%	
35) Dibromofluoromethane	7.88	113	9418	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	
50) Toluene-d8	10.32	98	36817	45.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.06%	
62) 4-Bromofluorobenzene	12.62	95	9363	31.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.94%	

Target Compounds

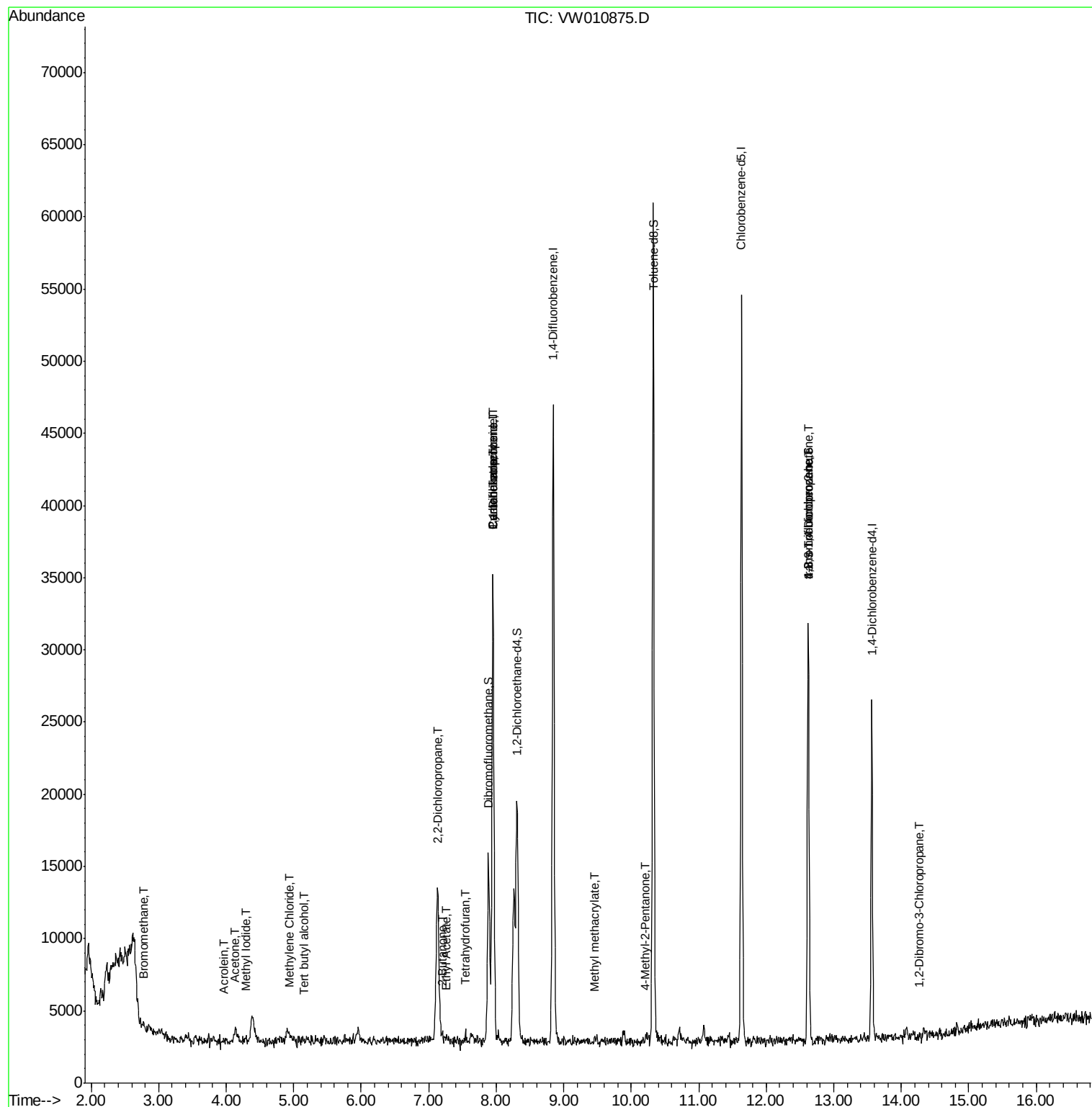
						Qvalue
5) Bromomethane	2.79	94	321	2.125	ug/l #	58
10) Methyl Iodide	4.29	142	261	5.842	ug/l #	90
11) Tert butyl alcohol	5.16	59	243	11.556	ug/l #	72
13) Acrolein	3.96	56	19	2.211	ug/l #	14
16) Acetone	4.14	43	1603	23.177	ug/l #	61
20) Methylene Chloride	4.93	84	426	1.756	ug/l #	78
25) 2-Butanone	7.20	43	147	1.533	ug/l #	53
26) 2,2-Dichloropropane	7.13	77	705	1.849	ug/l #	55
29) Tetrahydrofuran	7.54	42	89	1.475	ug/l #	40
31) Cyclohexane	7.95	56	697	1.338	ug/l #	48
36) 1,1-Dichloropropene	7.95	75	1954	5.557	ug/l #	47
37) Ethyl Acetate	7.26	43	221	1.134	ug/l #	72
38) Carbon Tetrachloride	7.95	117	2395	7.891	ug/l #	22
48) Methyl methacrylate	9.45	41	210	1.157	ug/l #	49
51) 4-Methyl-2-Pentanone	10.22	43	498	2.590	ug/l #	73
76) 1,2,3-Trichloropropane	12.62	75	5091	82.016	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	5091	188.499	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.27	75	25	1.722	ug/l #	6

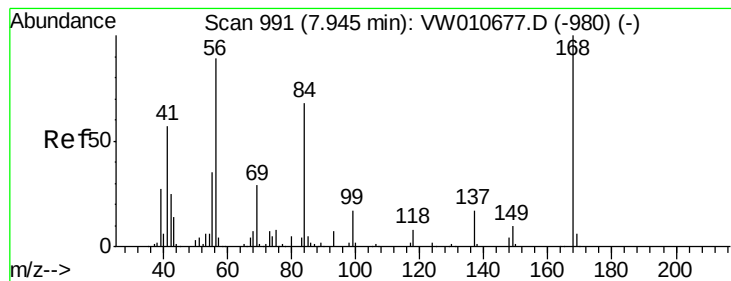
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

Instrument :

MSVOA_W

ClientSampleId :

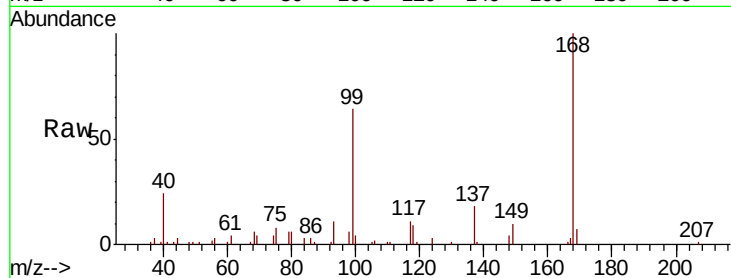
SIDEWALL-1

Tot Ion:168 Resp: 21899

Ion Ratio Lower Upper

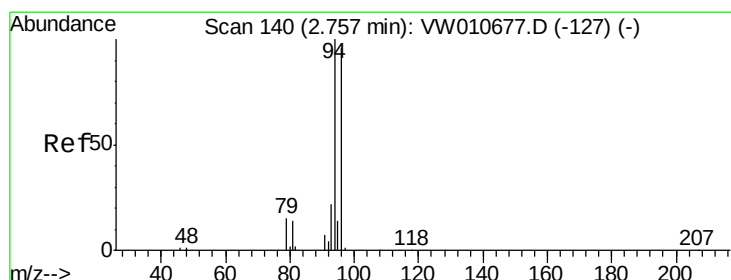
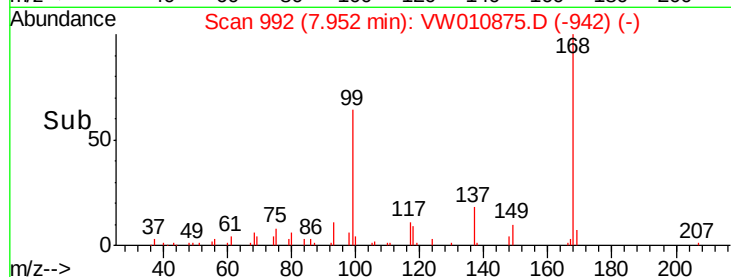
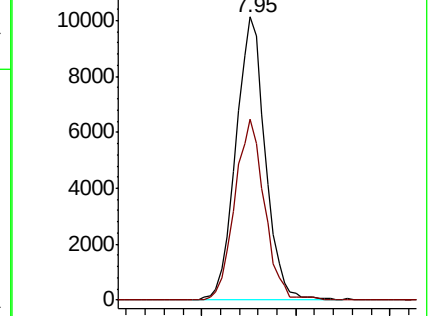
168 100

99 63.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#5

Bromomethane

Concen: 2.125 ug/l

RT: 2.79 min Scan# 145

Delta R.T. 0.03 min

Lab File: VW010875.D

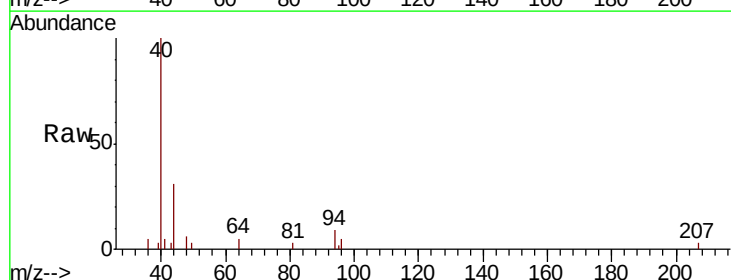
Acq: 20 Jun 2019 04:55

Tgt Ion: 94 Resp: 321

Ion Ratio Lower Upper

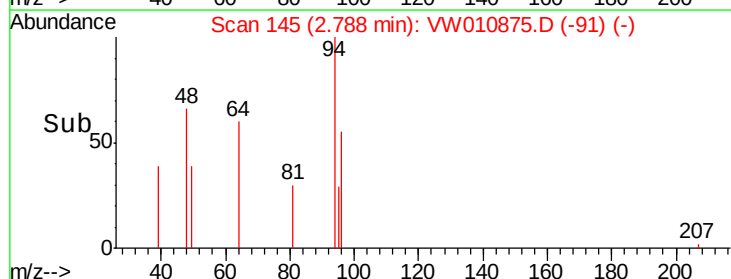
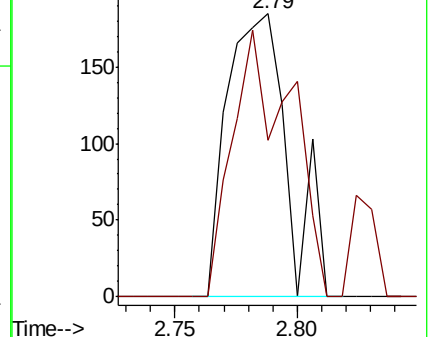
94 100

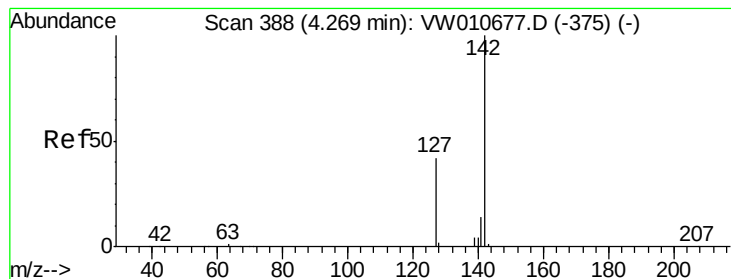
96 55.1 76.5 114.7#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW





#10

Methyl Iodide

Concen: 5.842 ug/l

RT: 4.29 min Scan# 392

Delta R.T. 0.02 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

Instrument :

MSVOA_W

ClientSampleId :

SIDEWALL-1

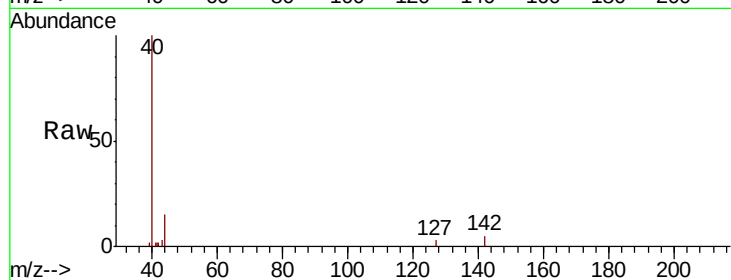
Tot Ion: 142 Resp: 261

Ion Ratio Lower Upper

142 100

127 44.1 34.6 51.8

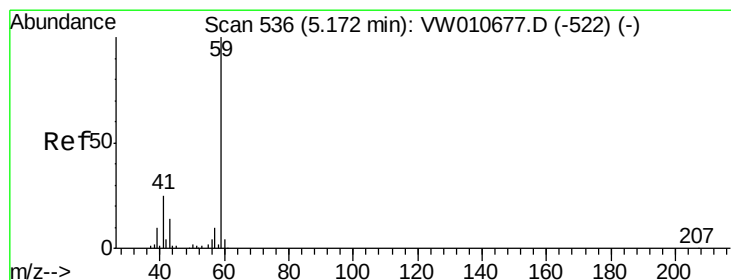
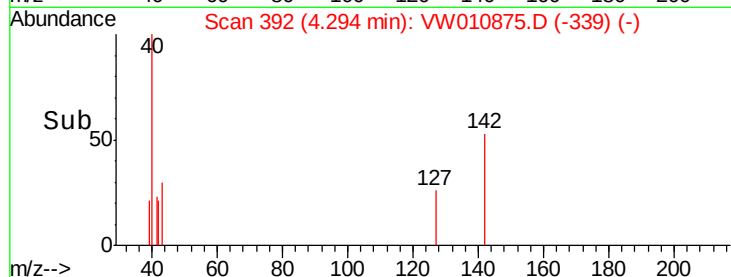
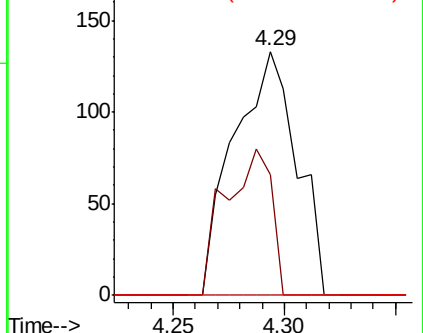
141 0.0 11.6 17.4#



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



#11

Tert butyl alcohol

Concen: 11.556 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW010875.D

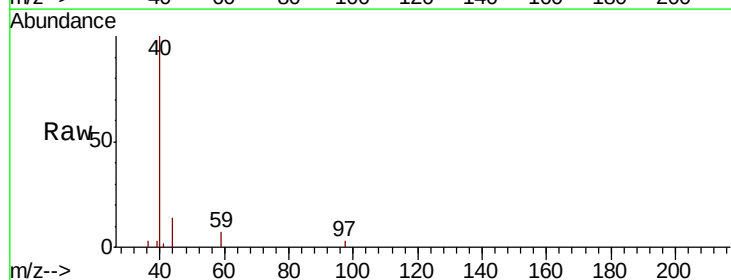
Acq: 20 Jun 2019 04:55

Tgt Ion: 59 Resp: 243

Ion Ratio Lower Upper

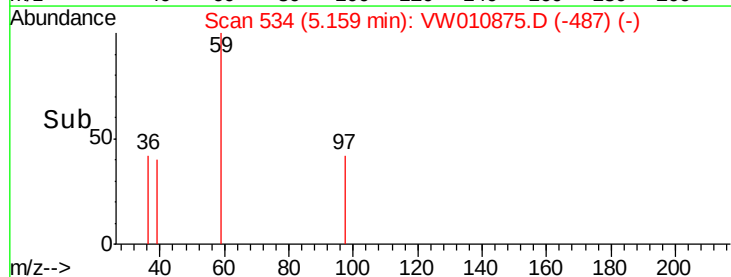
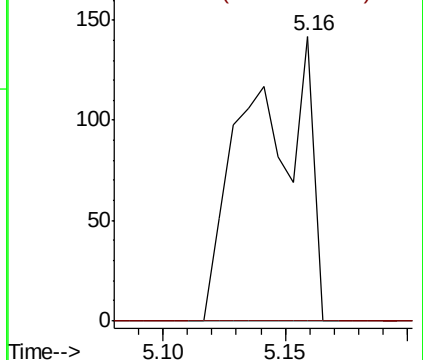
59 100

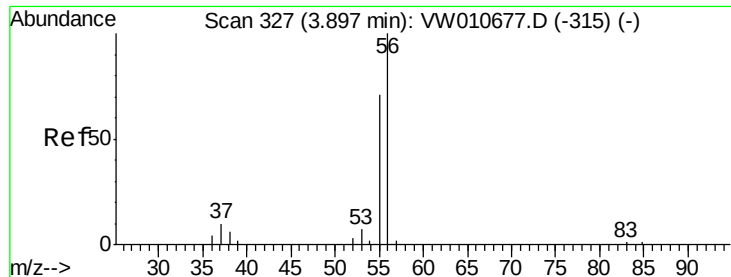
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 2.211 ug/l

RT: 3.96 min Scan# 338

Delta R.T. 0.07 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

Instrument :

MSVOA_W

ClientSampleId :

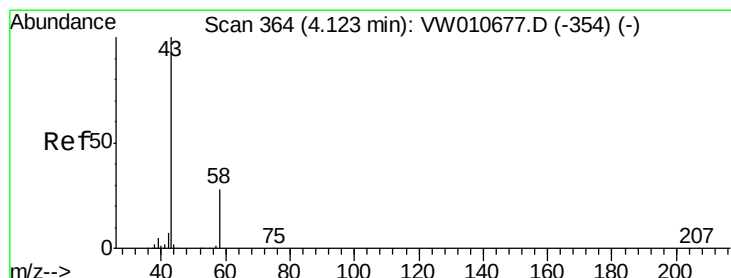
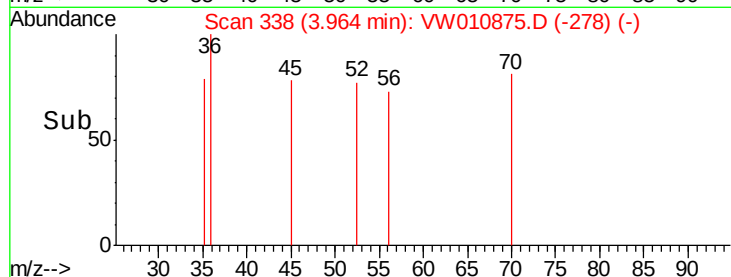
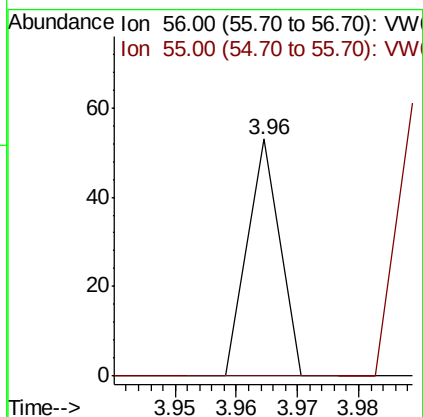
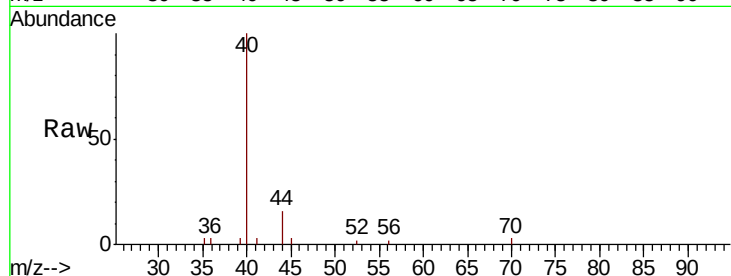
SIDEWALL-1

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



#16

Acetone

Concen: 23.177 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW010875.D

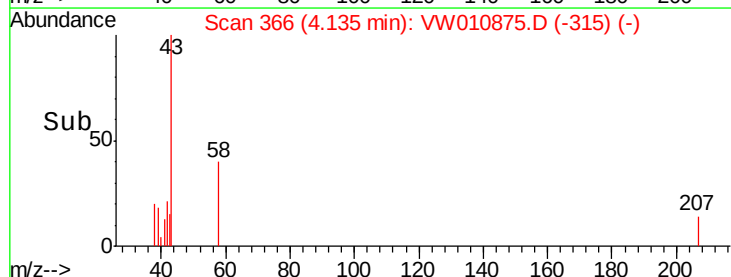
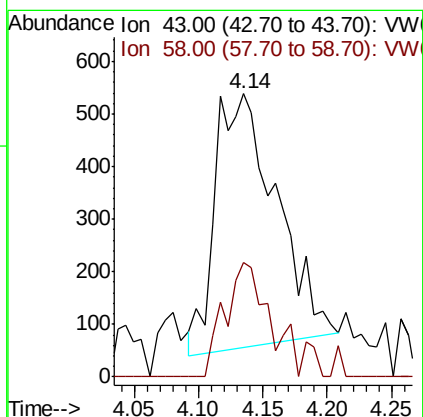
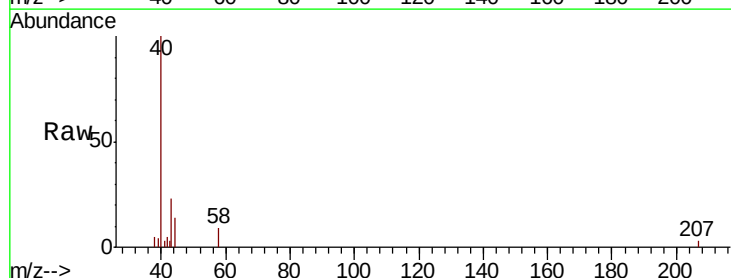
Acq: 20 Jun 2019 04:55

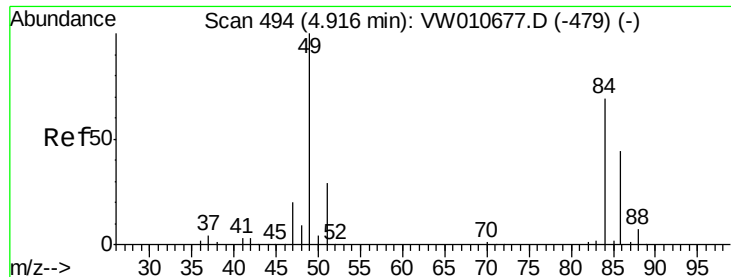
Tgt Ion: 43 Resp: 1603

Ion Ratio Lower Upper

43 100

58 47.8 22.1 33.1#

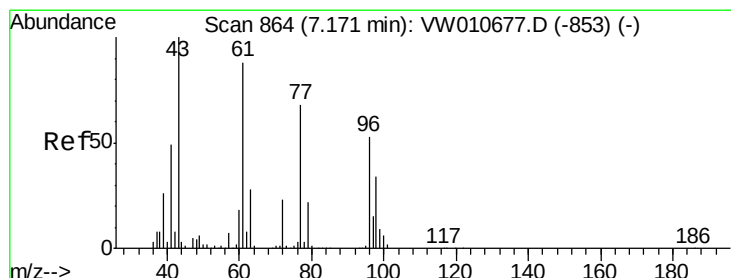
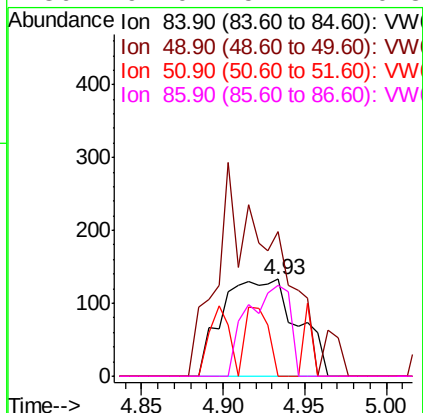
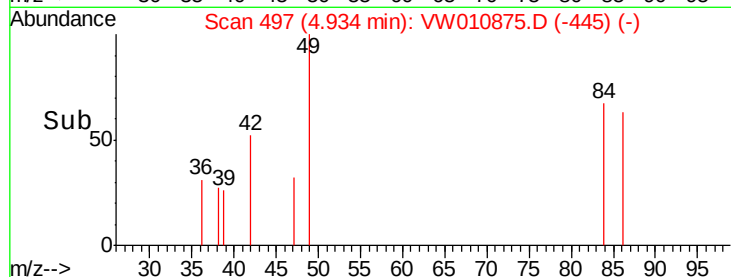
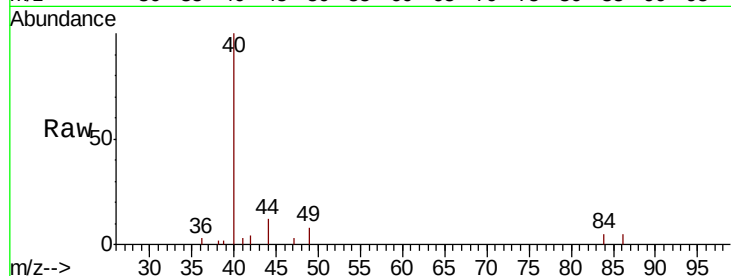




#20
Methylene Chloride
Concen: 1.756 ug/l
RT: 4.93 min Scan# 497
Delta R.T. 0.02 min
Lab File: VW010875.D
Acq: 20 Jun 2019 04:55

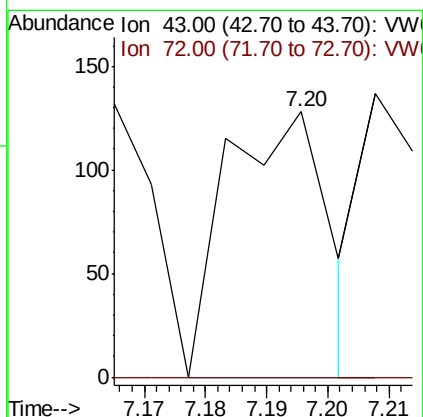
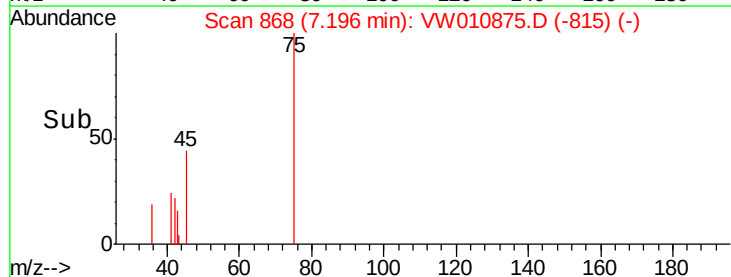
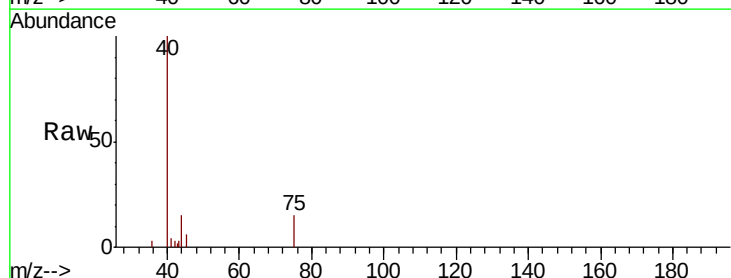
Instrument :
MSVOA_W
ClientSampleId :
SIDEWALL-1

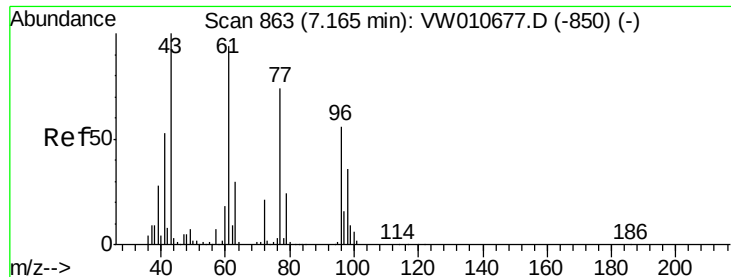
Tot Ion: 84 Resp: 426
Ion Ratio Lower Upper
84 100
49 148.9 116.7 175.1
51 0.0 34.2 51.2#
86 94.0 51.2 76.8#



#25
2-Butanone
Concen: 1.533 ug/l
RT: 7.20 min Scan# 868
Delta R.T. 0.02 min
Lab File: VW010875.D
Acq: 20 Jun 2019 04:55

Tgt Ion: 43 Resp: 147
Ion Ratio Lower Upper
43 100
72 0.0 18.1 27.1#





#26

2,2-Dichloropropane

Concen: 1.849 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

Instrument :

MSVOA_W

ClientSampled :

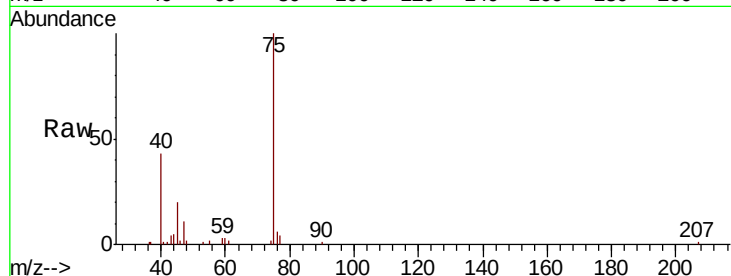
SIDEWALL-1

Tot Ion: 77 Resp: 705

Ion Ratio Lower Upper

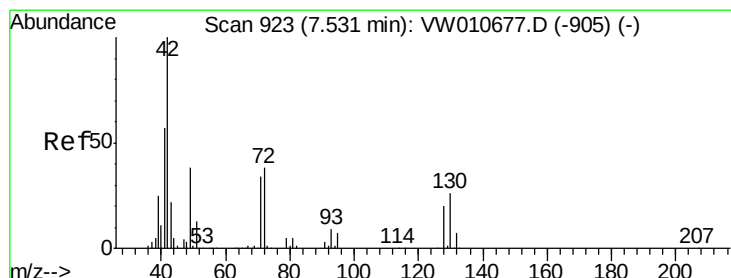
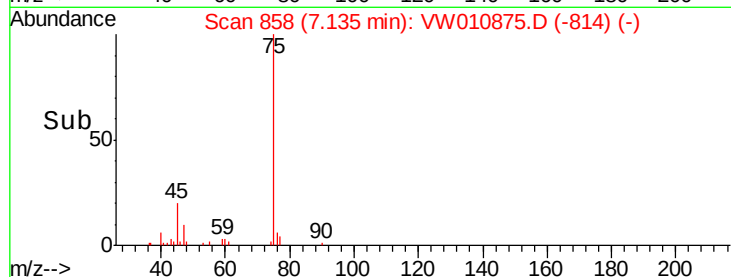
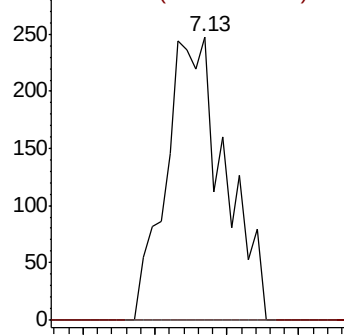
77 100

97 0.0 10.5 31.6#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



#29

Tetrahydrofuran

Concen: 1.475 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

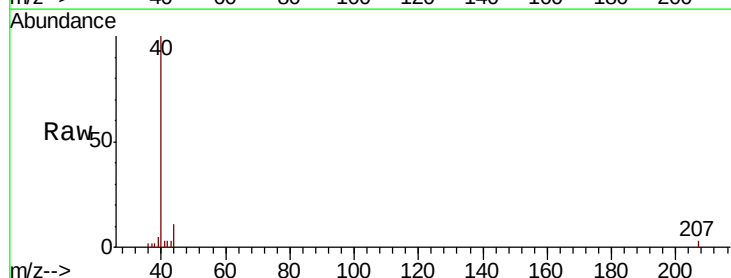
Tgt Ion: 42 Resp: 89

Ion Ratio Lower Upper

42 100

72 0.0 28.7 43.1#

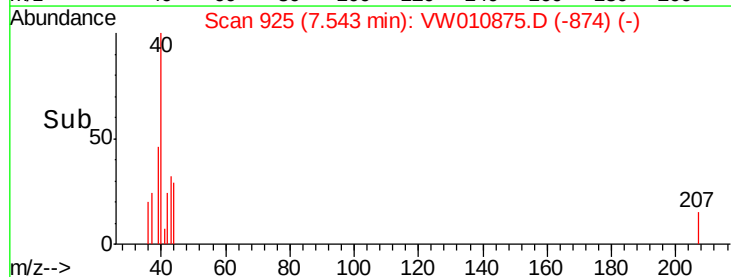
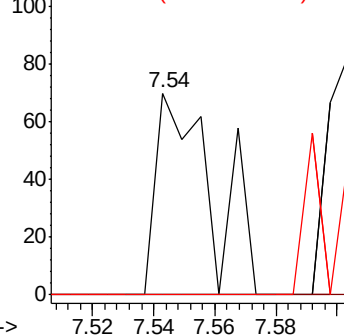
71 0.0 26.6 39.8#

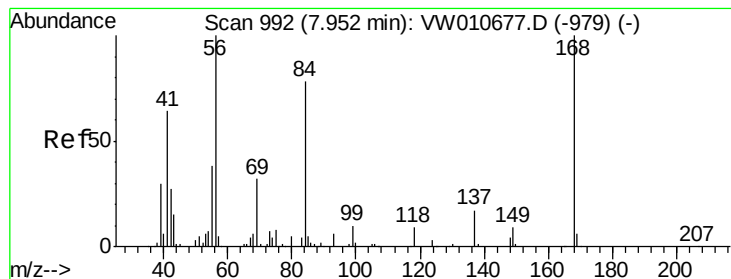


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.338 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

Instrument :

MSVOA_W

ClientSampleId :

SIDEWALL-1

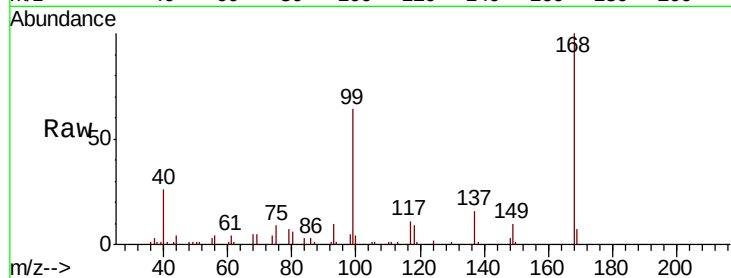
Tot Ion: 56 Resp: 697

Ion Ratio Lower Upper

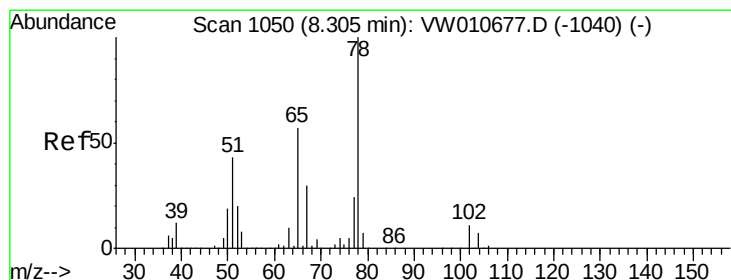
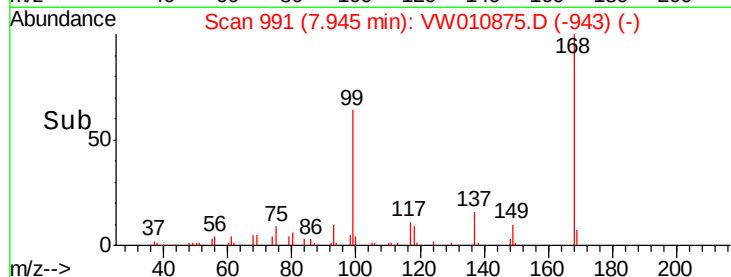
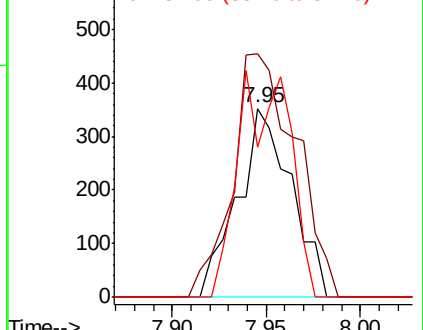
56 100

69 129.0 25.2 37.8#

84 79.5 62.2 93.2



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



#33

1,2-Dichloroethane-d4

Concen: 53.732 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010875.D

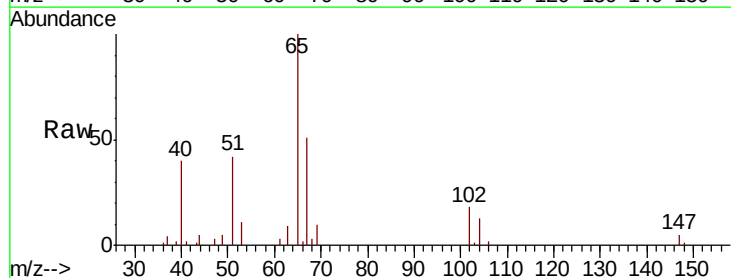
Acq: 20 Jun 2019 04:55

Tgt Ion: 65 Resp: 13869

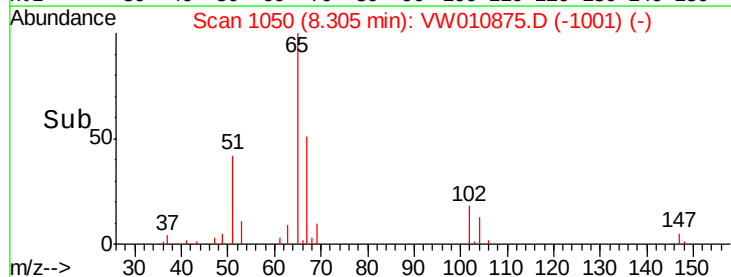
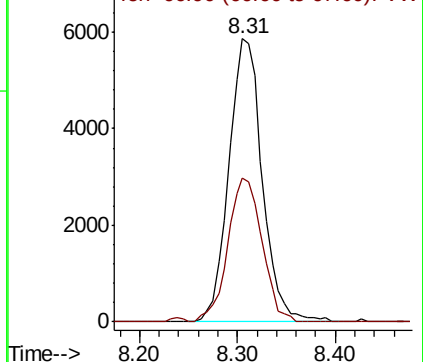
Ion Ratio Lower Upper

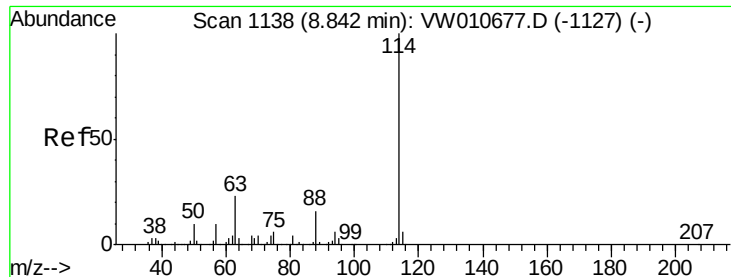
65 100

67 51.9 0.0 102.6



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

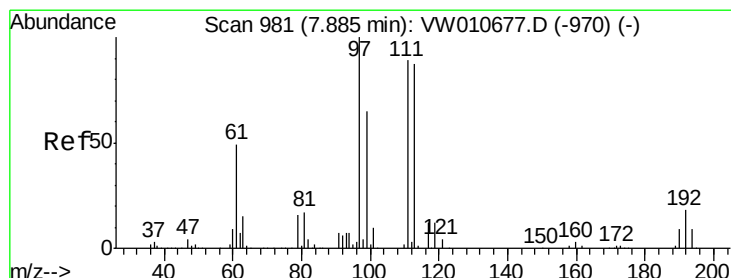
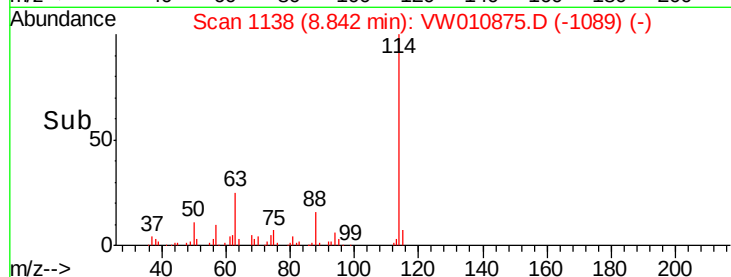
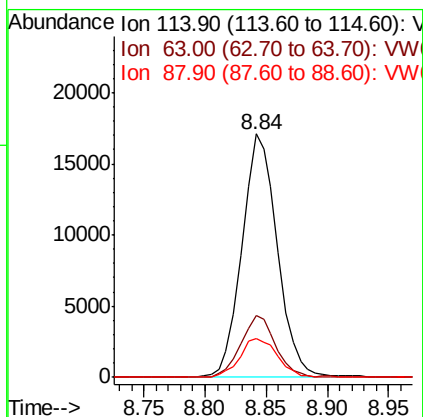
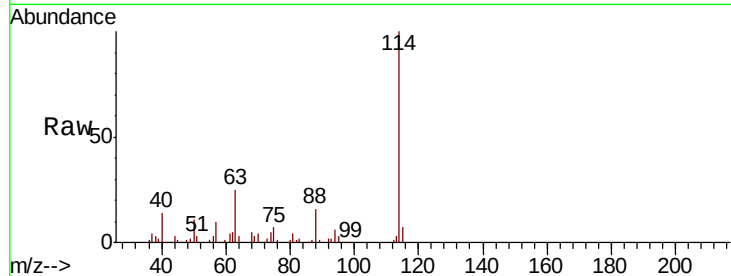




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VW010875.D
Acq: 20 Jun 2019 04:55

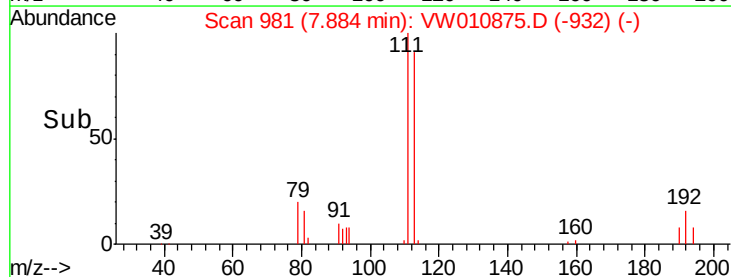
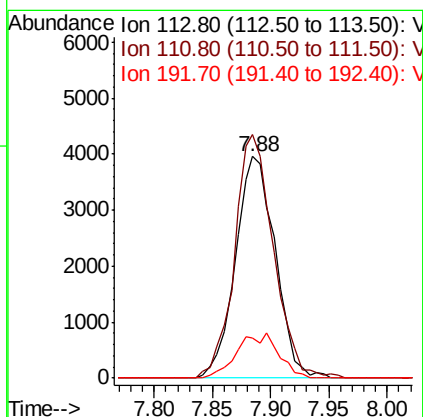
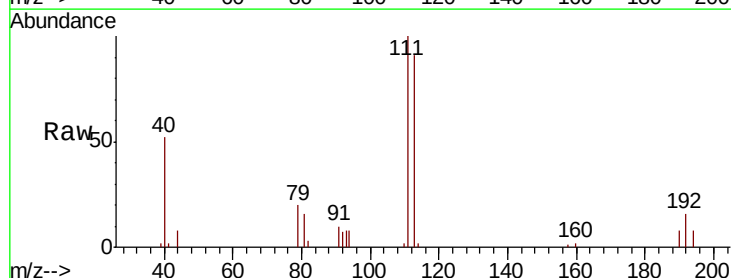
Instrument :
MSVOA_W
ClientSampleId :
SIDEWALL-1

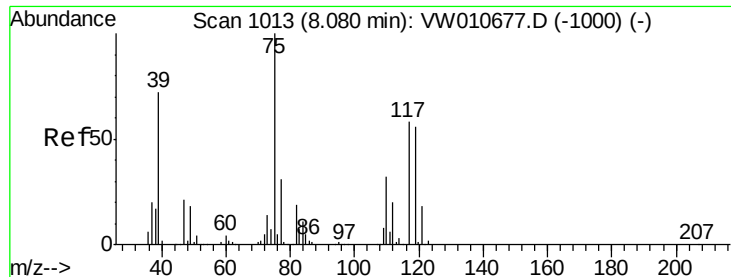
Tot Ion:114	Resp:	34349
Ion	Ratio	Lower Upper
114	100	
63	25.4	0.0 46.4
88	16.0	0.0 32.2



#35
Dibromofluoromethane
Concen: 50.515 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW010875.D
Acq: 20 Jun 2019 04:55

Tgt Ion:113	Resp:	9418
Ion	Ratio	Lower Upper
113	100	
111	107.6	82.6 123.8
192	20.9	16.4 24.6

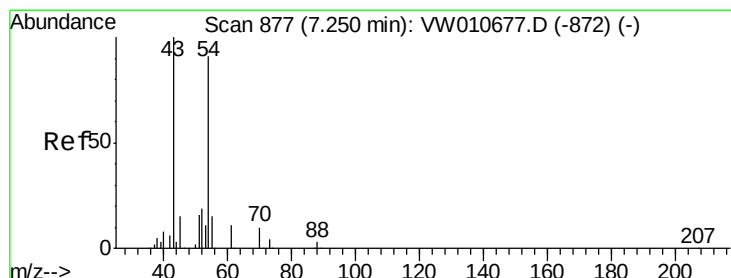
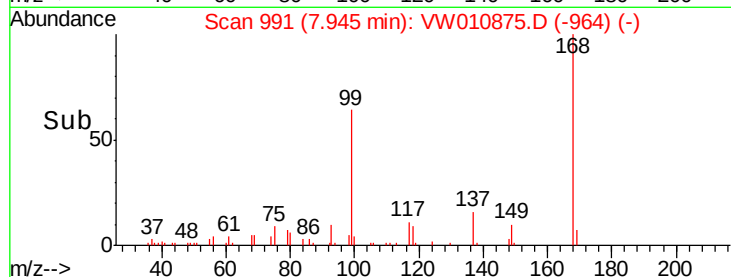
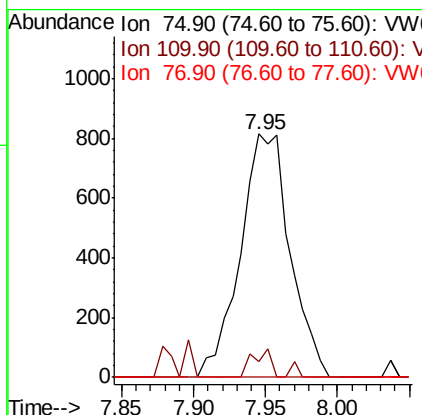
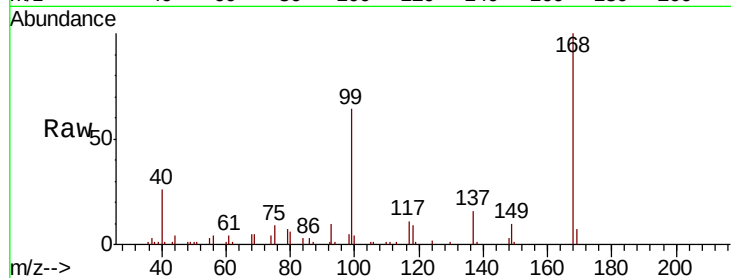




#36
 1,1-Dichloropropene
 Concen: 5.557 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010875.D
 Acq: 20 Jun 2019 04:55

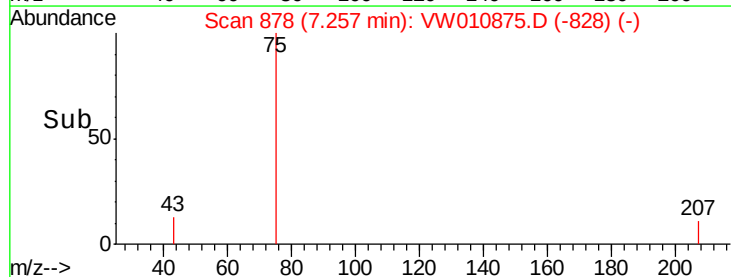
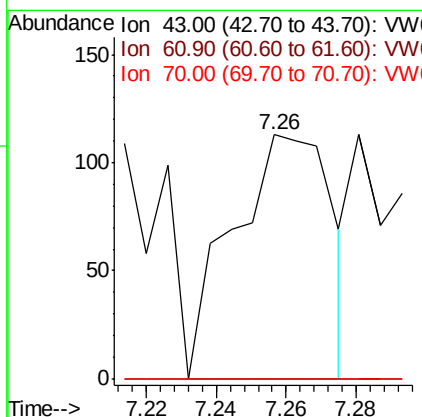
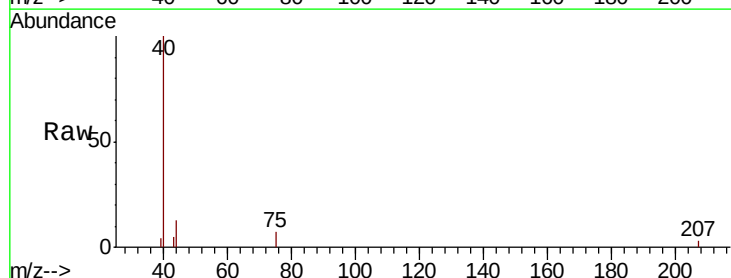
Instrument :
 MSVOA_W
 ClientSampled :
 SIDEWALL-1

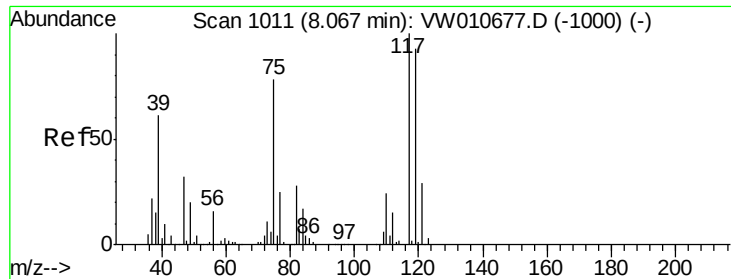
Tot Ion	Ratio	Lower	Upper
75	100		
110	4.2	15.8	47.3#
77	0.0	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 1.134 ug/l
 RT: 7.26 min Scan# 878
 Delta R.T. 0.01 min
 Lab File: VW010875.D
 Acq: 20 Jun 2019 04:55

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.7	14.5#
70	0.0	7.2	10.8#

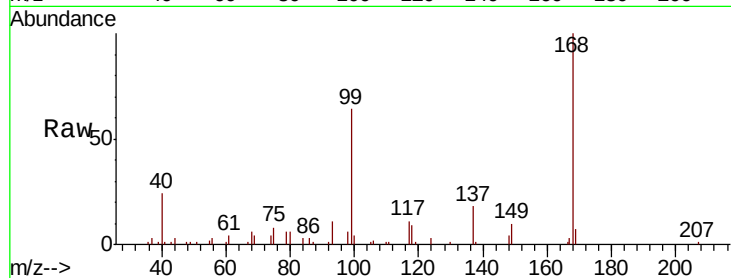




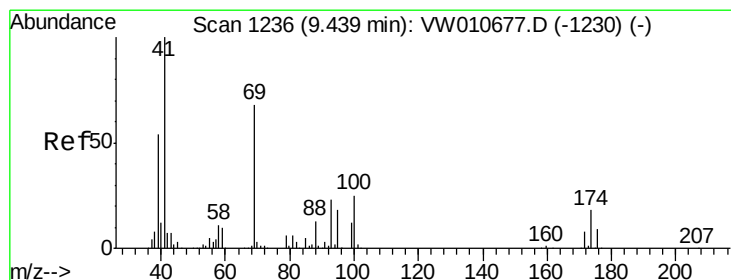
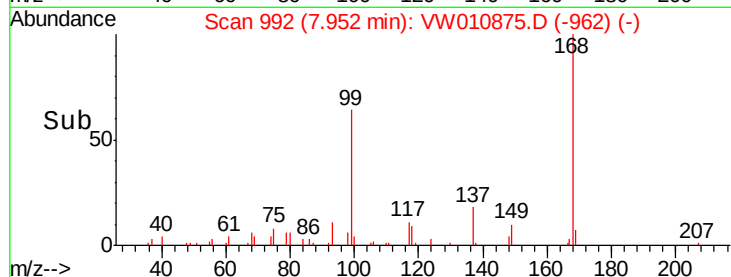
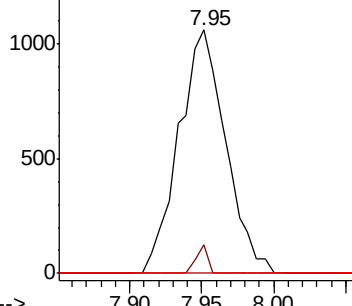
#38
Carbon Tetrachloride
Concen: 7.891 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW010875.D
Acq: 20 Jun 2019 04:55

Instrument :
MSVOA_W
ClientSampleId :
SIDEWALL-1

Tot Ion:117 Resp: 2395
Ion Ratio Lower Upper
117 100
119 11.5 74.2 111.4#
121 0.0 22.9 34.3#

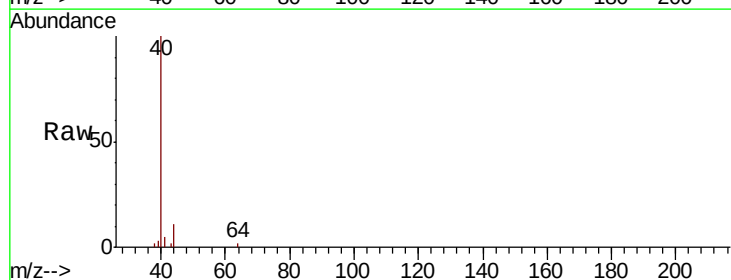


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

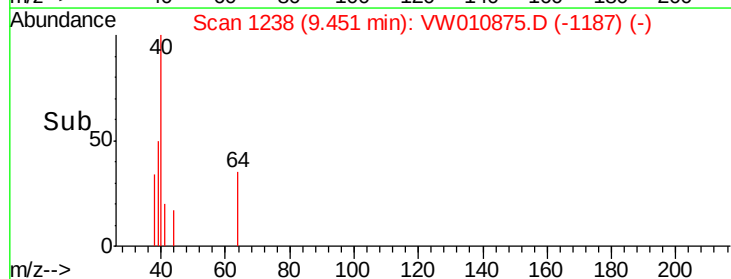
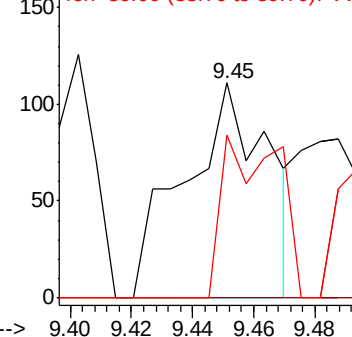


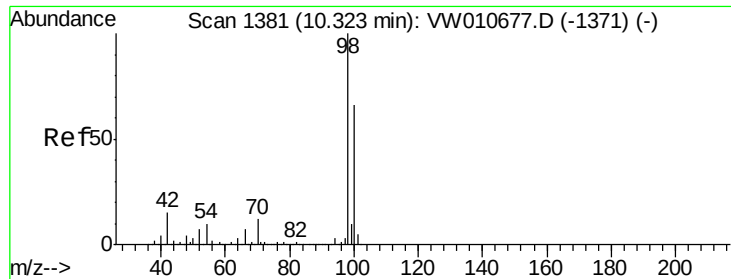
#48
Methyl methacrylate
Concen: 1.157 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. 0.01 min
Lab File: VW010875.D
Acq: 20 Jun 2019 04:55

Tgt Ion: 41 Resp: 210
Ion Ratio Lower Upper
41 100
69 0.0 56.6 85.0#
39 51.0 44.4 66.6



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW





#50

Toluene-d8

Concen: 45.033 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

Instrument :

MSVOA_W

ClientSampleId :

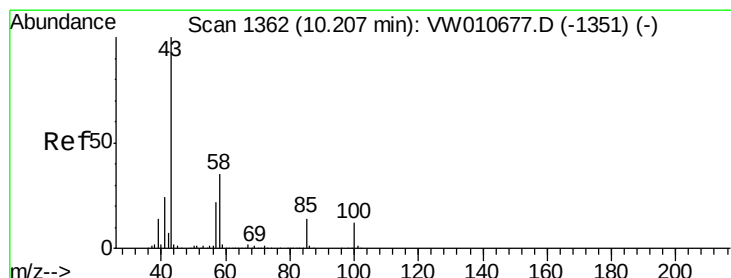
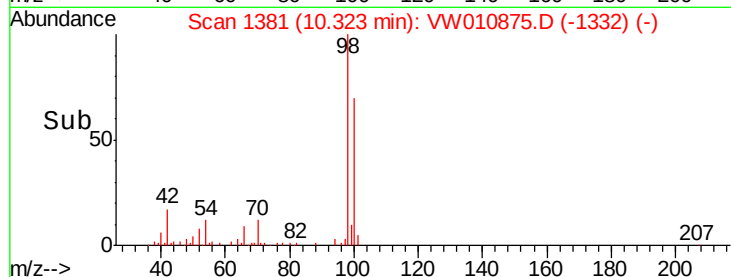
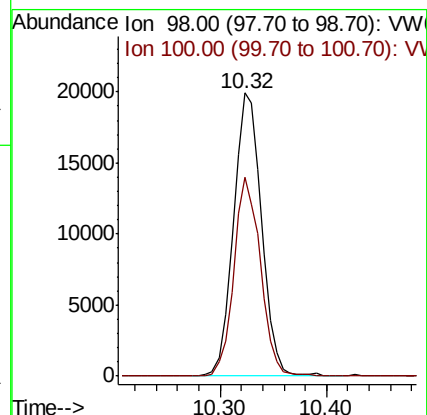
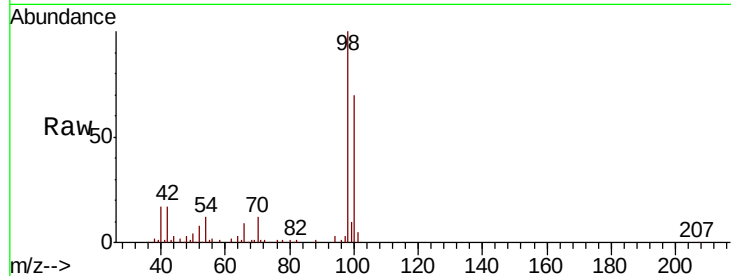
SIDEWALL-1

Tot Ion: 98 Resp: 36817

Ion Ratio Lower Upper

98 100

100 66.5 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 2.590 ug/l

RT: 10.22 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VW010875.D

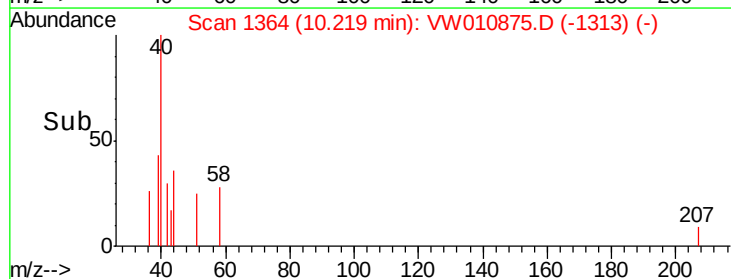
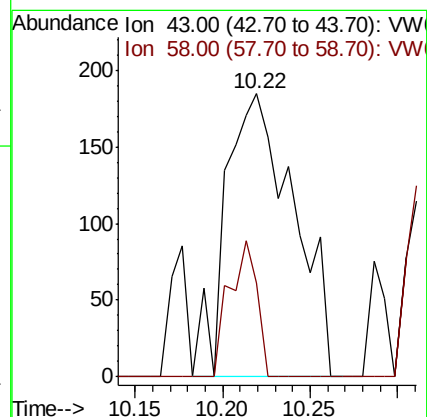
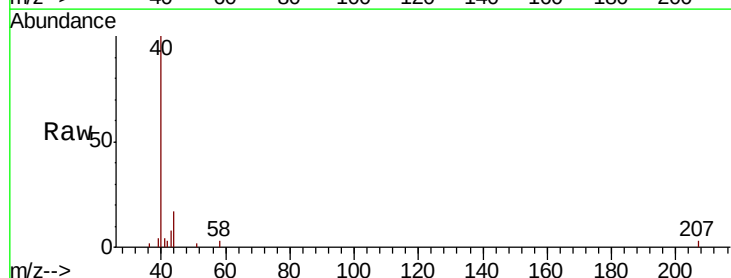
Acq: 20 Jun 2019 04:55

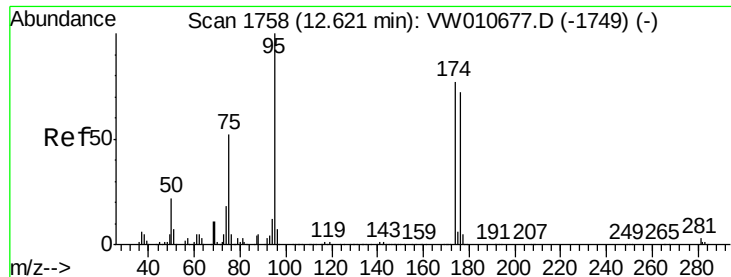
Tgt Ion: 43 Resp: 498

Ion Ratio Lower Upper

43 100

58 19.5 28.4 42.6#

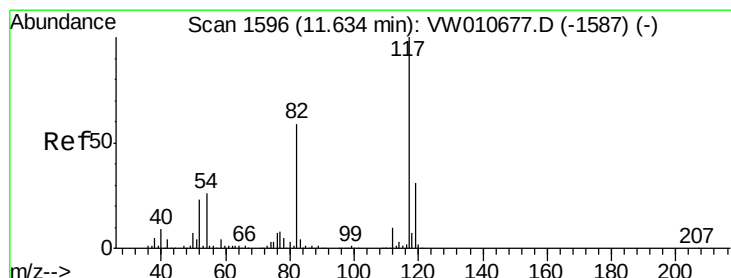
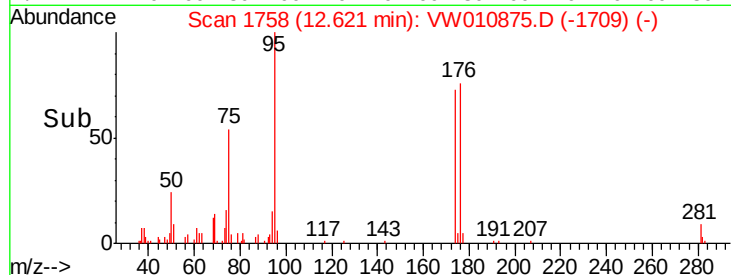
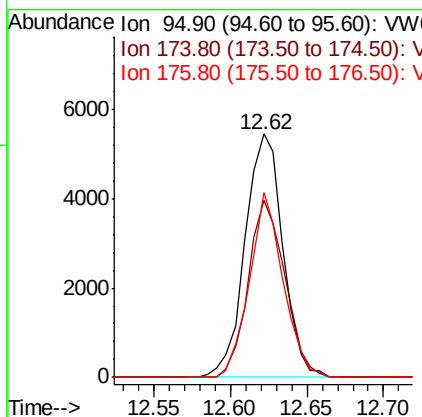
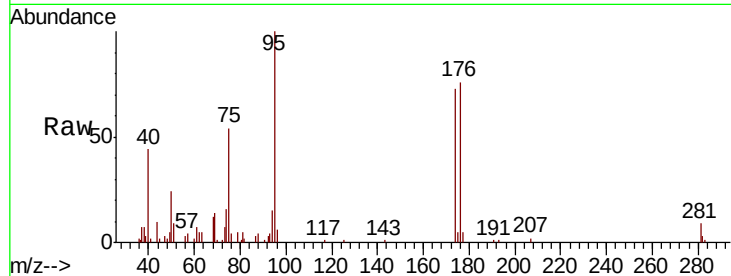




#62
4-Bromofluorobenzene
Concen: 31.472 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW010875.D
Acq: 20 Jun 2019 04:55

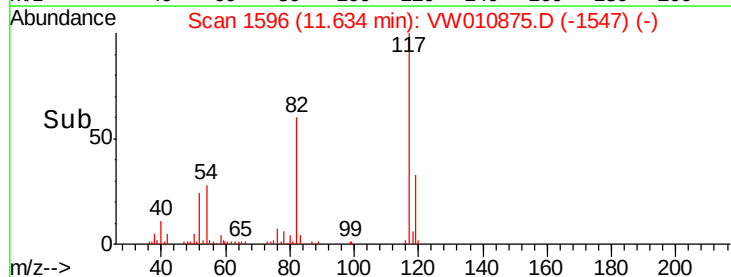
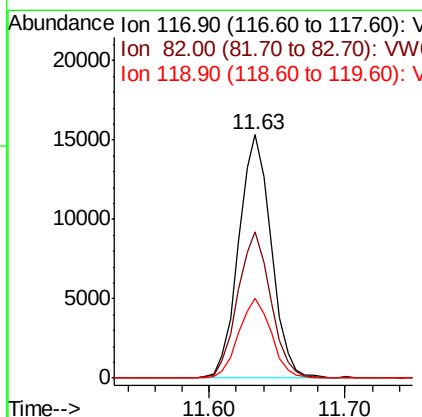
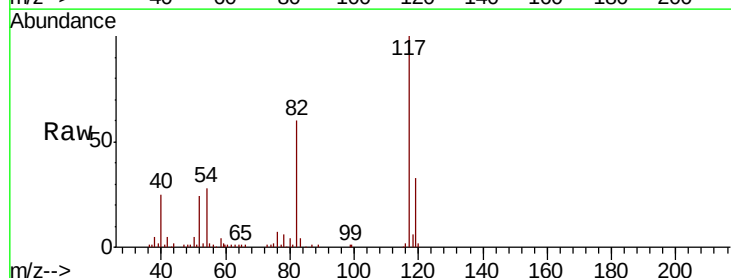
Instrument :
MSVOA_W
ClientSampleId :
SIDEWALL-1

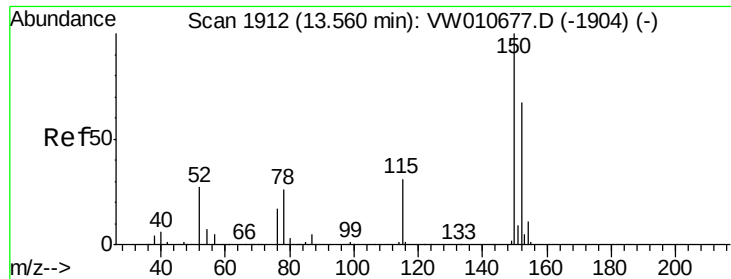
Tot Ion: 95 Resp: 9363
Ion Ratio Lower Upper
95 100
174 70.8 0.0 150.4
176 67.4 0.0 144.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010875.D
Acq: 20 Jun 2019 04:55

Tgt Ion: 117 Resp: 25604
Ion Ratio Lower Upper
117 100
82 60.0 47.0 70.4
119 32.7 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.01 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

Instrument :

MSVOA_W

ClientSampleId :

SIDEWALL-1

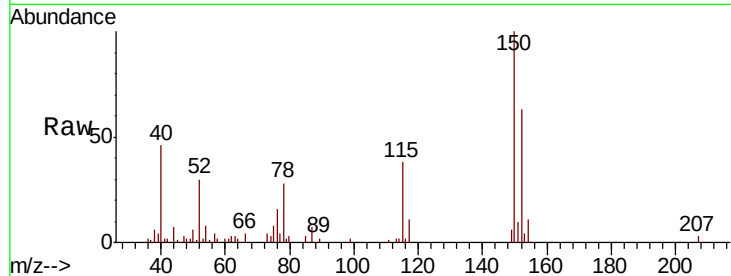
Tot Ion:152 Resp: 5911

Ion Ratio Lower Upper

152 100

115 62.1 29.8 89.3

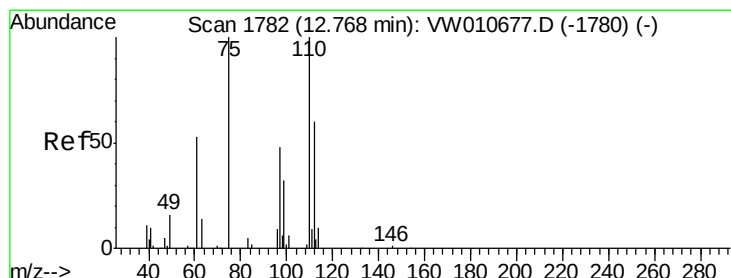
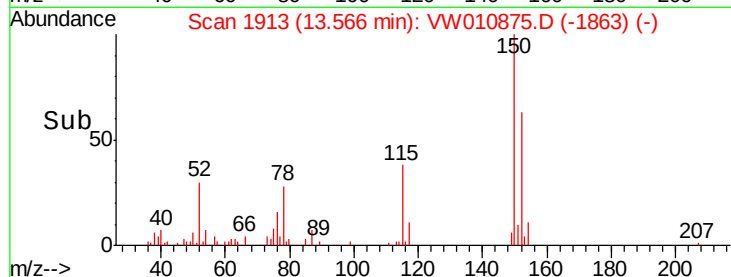
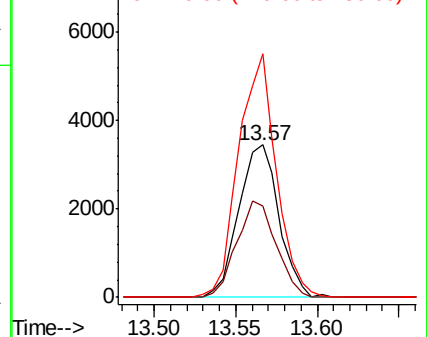
150 150.1 0.0 345.0



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: 82.016 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010875.D

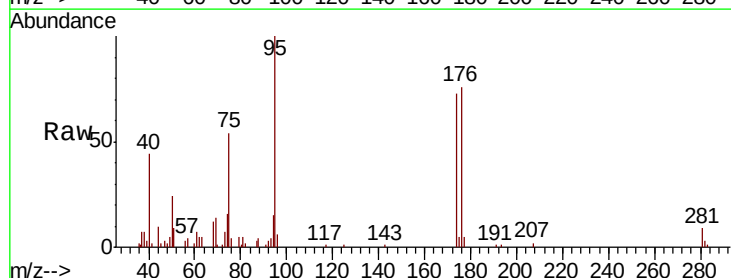
Acq: 20 Jun 2019 04:55

Tgt Ion: 75 Resp: 5091

Ion Ratio Lower Upper

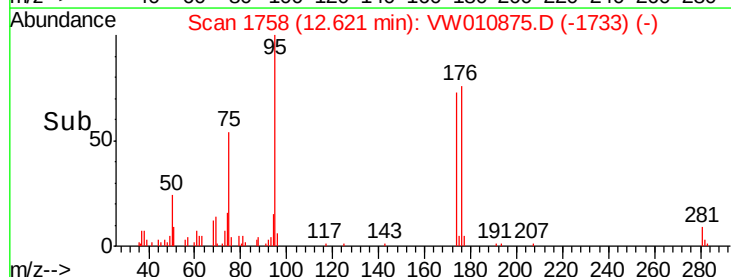
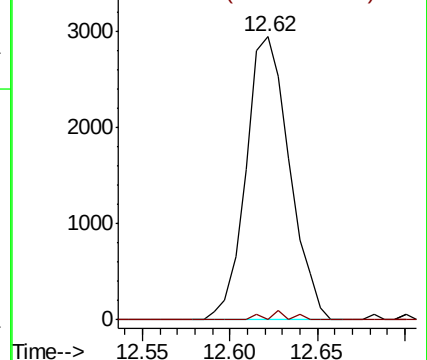
75 100

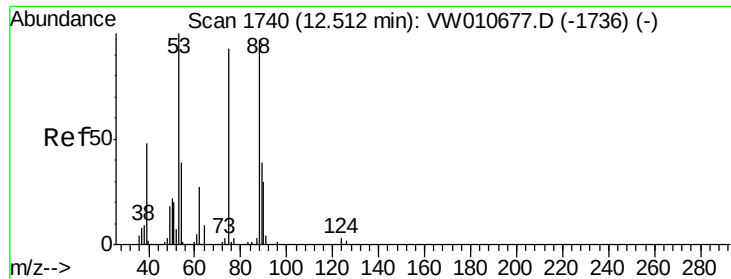
77 1.6 0.0 0.0#



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: 188.499 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

Instrument :

MSVOA_W

ClientSampleId :

SIDEWALL-1

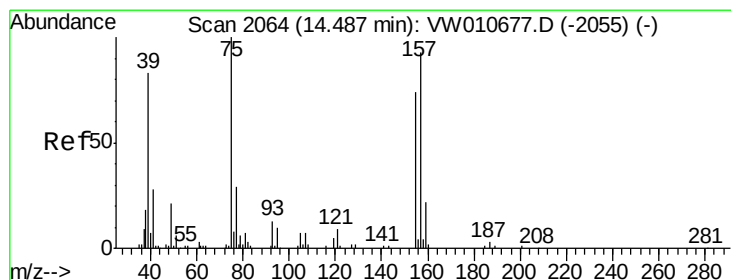
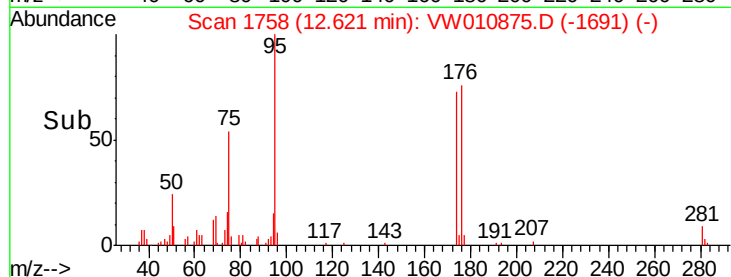
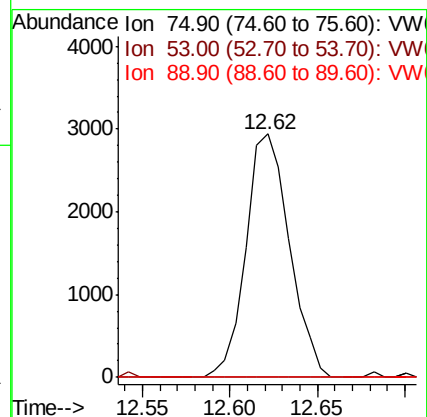
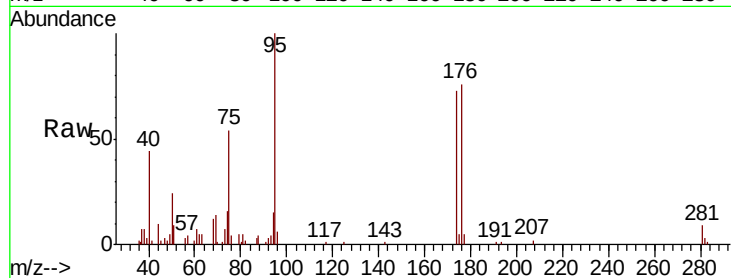
Tot Ion: 75 Resp: 5091

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 34.6 52.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.722 ug/l

RT: 14.27 min Scan# 2028

Delta R.T. -0.22 min

Lab File: VW010875.D

Acq: 20 Jun 2019 04:55

Tgt Ion: 75 Resp: 25

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.4#

157 0.0 48.4 145.0#

