

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031020\
 Data File : VW015108.D
 Acq On : 10 Mar 2020 12:41
 Operator : SY/VA
 Sample : VW0310SBL01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Mar 11 09:00:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030920S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 09 18:51:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	312096	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	629015	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	560667	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	215191	50.00	ug/l	0.00

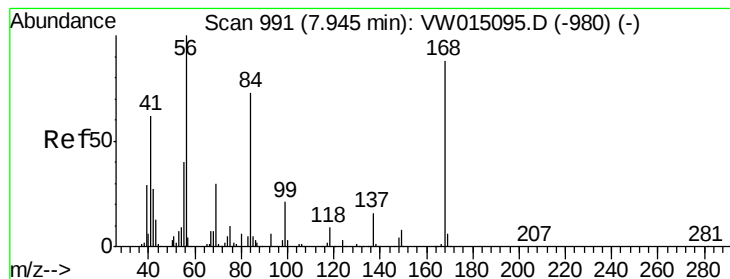
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	260379	56.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.48%	
35) Dibromofluoromethane	7.88	113	183448	48.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.42%	
50) Toluene-d8	10.32	98	729619	46.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.54%	
62) 4-Bromofluorobenzene	12.62	95	215146	41.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.14%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	5.15	59	5895	22.352	ug/l #	86
13) Acrolein	3.90	56	417	1.081	ug/l #	65
16) Acetone	4.12	43	9452	9.031	ug/l	98
20) Methylene Chloride	4.91	84	13257	Below Cal		95
25) 2-Butanone	7.13	43	5817	4.054	ug/l #	82
26) 2,2-Dichloropropane	7.13	77	5547	1.091	ug/l #	56
29) Tetrahydrofuran	7.54	42	1179	1.314	ug/l #	64
31) Cyclohexane	7.94	56	12251	1.340	ug/l #	10
36) 1,1-Dichloropropene	7.95	75	36739	5.036	ug/l #	52
38) Carbon Tetrachloride	7.95	117	37113	6.250	ug/l #	18
48) Methyl methacrylate	9.46	41	1973	3.110	ug/l #	65
49) 1,4-Dioxane	9.46	88	170	4.678	ug/l #	1
51) 4-Methyl-2-Pentanone	10.20	43	4576	1.271	ug/l	98
56) Ethyl methacrylate	10.65	69	443	2.134	ug/l #	38
59) 2-Hexanone	10.70	43	1247	5.148	ug/l	94
74) N-amyl acetate	12.27	43	371	2.770	ug/l #	58
76) 1,2,3-Trichloropropane	12.62	75	128077	52.662	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	128077	118.945	ug/l #	7
95) Naphthalene	15.37	128	493	3.177	ug/l #	86

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

Instrument :

MSVOA_W

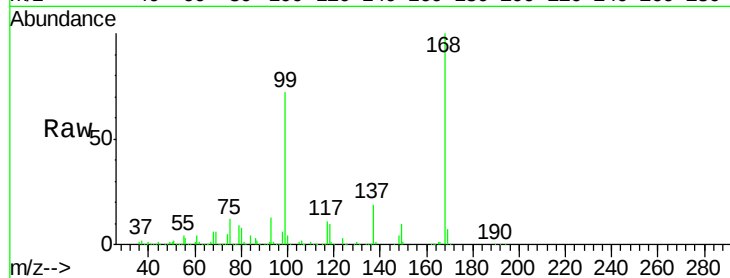
ClientSampled :

Tot Ion:168 Resp: 312096

Ion Ratio Lower Upper

168 100

99 71.7 57.2 85.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

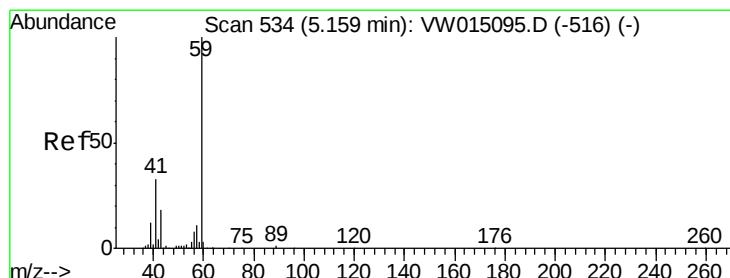
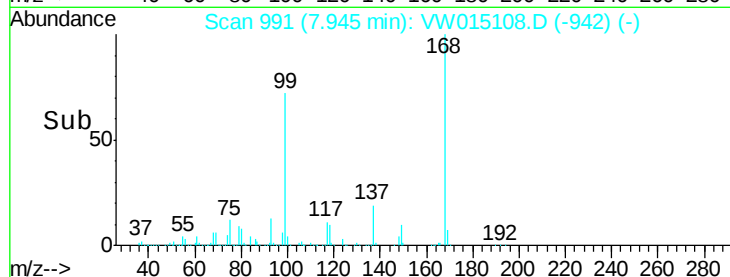
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 22.352 ug/l

RT: 5.15 min Scan# 533

Delta R.T. -0.01 min

Lab File: VW015108.D

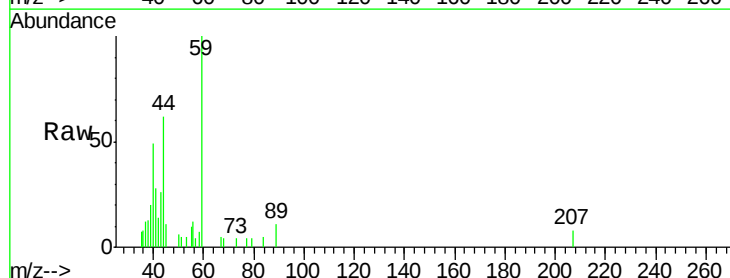
Acq: 10 Mar 2020 12:41

Tgt Ion: 59 Resp: 5895

Ion Ratio Lower Upper

59 100

57 5.9 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.15

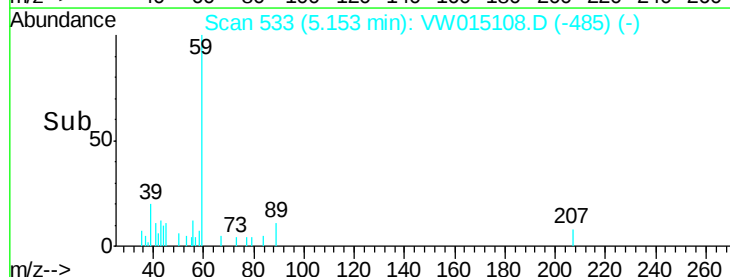
1500

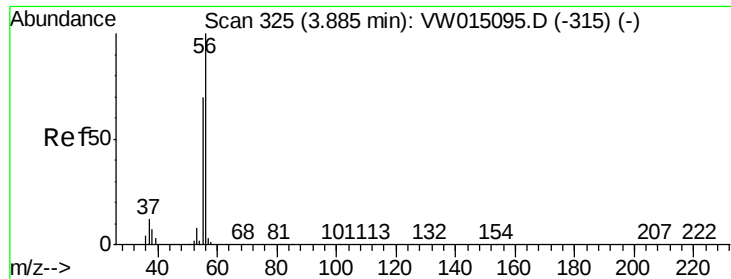
1000

500

0

Time--> 5.00 5.10 5.20 5.30

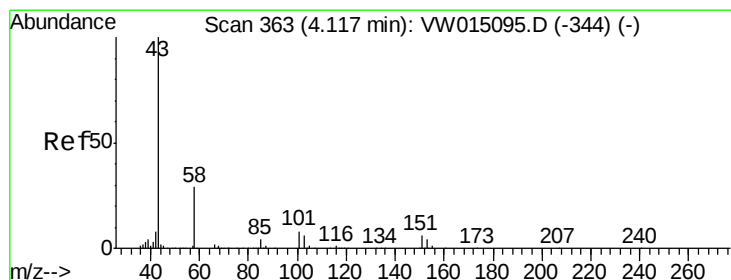
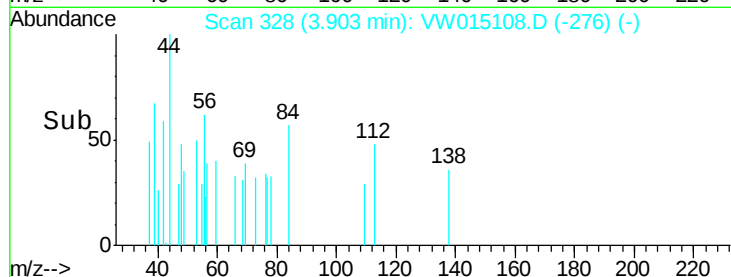
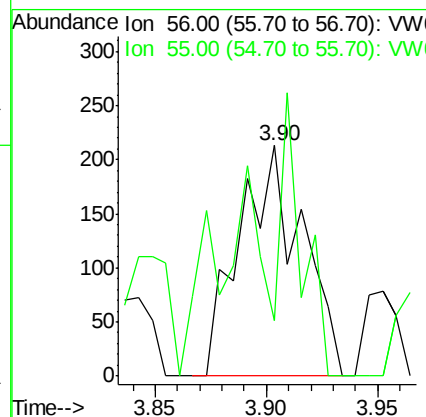
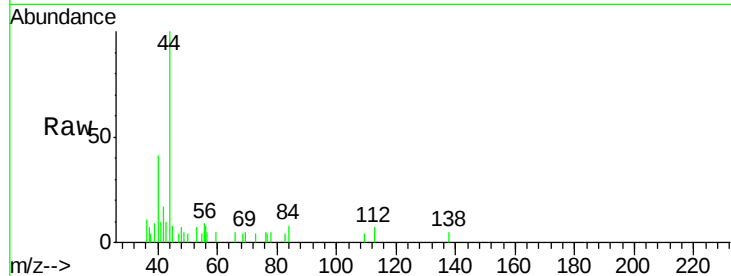




#13
Acrolein
Concen: 1.081 ug/l
RT: 3.90 min Scan# 328
Delta R.T. 0.02 min
Lab File: VW015108.D
Acq: 10 Mar 2020 12:41

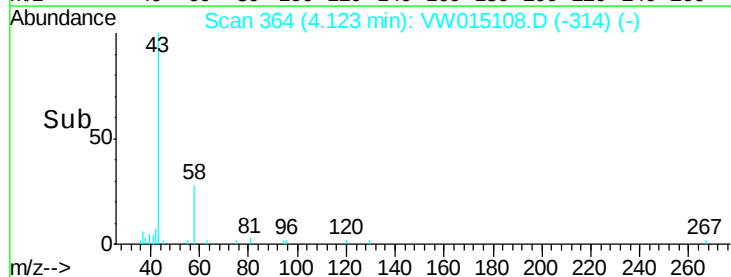
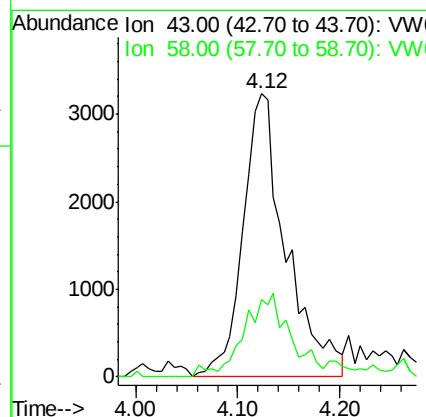
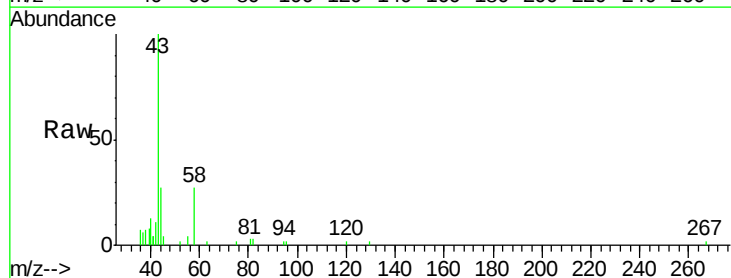
Instrument :
MSVOA_W
ClientSampleId :

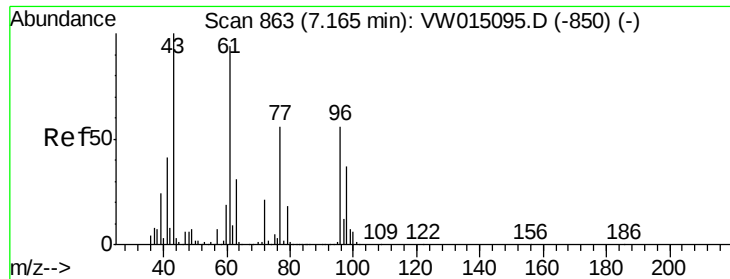
Tot Ion: 56 Resp: 417
Ion Ratio Lower Upper
56 100
55 40.8 55.4 83.2#



#16
Acetone
Concen: 9.031 ug/l
RT: 4.12 min Scan# 364
Delta R.T. 0.01 min
Lab File: VW015108.D
Acq: 10 Mar 2020 12:41

Tgt Ion: 43 Resp: 9452
Ion Ratio Lower Upper
43 100
58 27.3 22.9 34.3





#25

2-Butanone

Concen: 4.054 ug/l

RT: 7.13 min Scan# 857

Delta R.T. -0.04 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

Instrument :

MSVOA_W

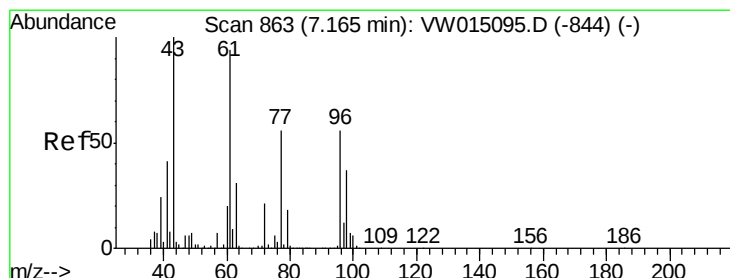
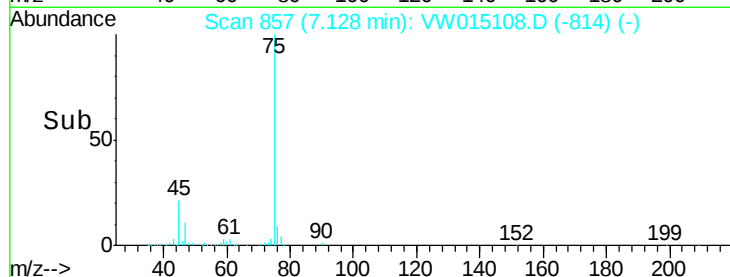
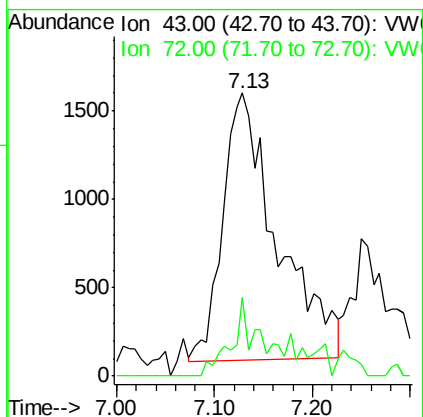
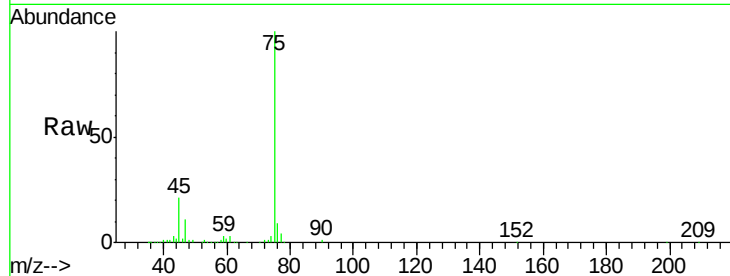
ClientSampled :

Tot Ion: 43 Resp: 5817

Ion Ratio Lower Upper

43 100

72 29.8 17.0 25.6#



#26

2,2-Dichloropropane

Concen: 1.091 ug/l

RT: 7.13 min Scan# 857

Delta R.T. -0.04 min

Lab File: VW015108.D

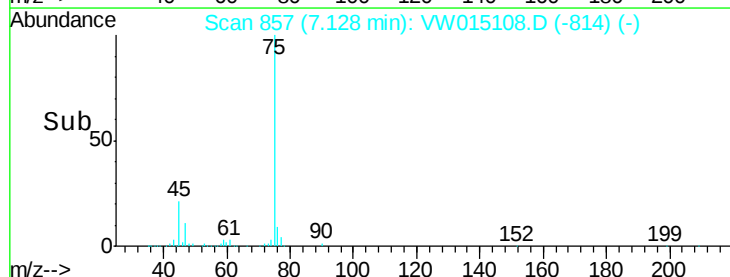
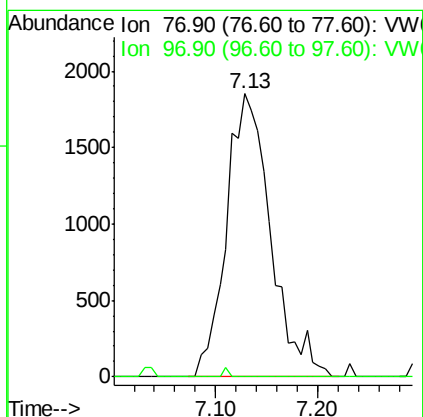
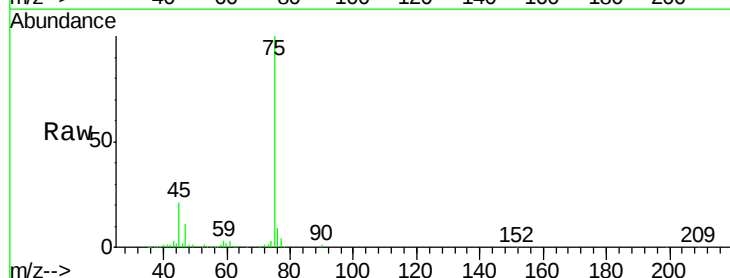
Acq: 10 Mar 2020 12:41

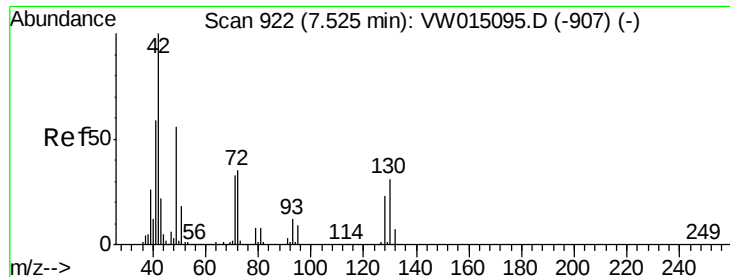
Tgt Ion: 77 Resp: 5547

Ion Ratio Lower Upper

77 100

97 0.4 10.6 31.8#

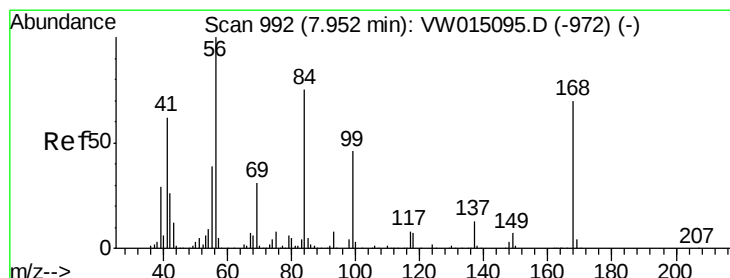
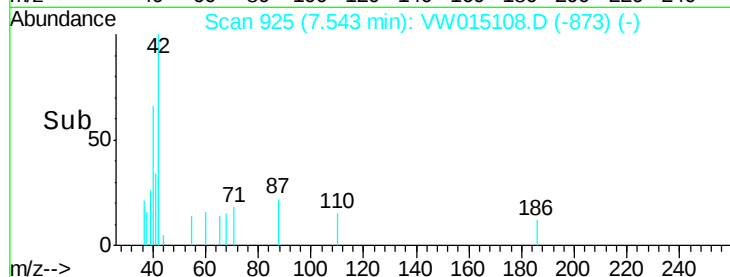
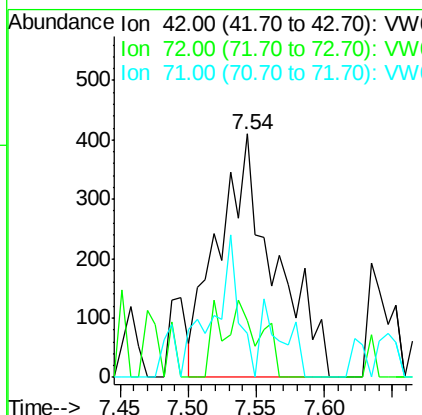
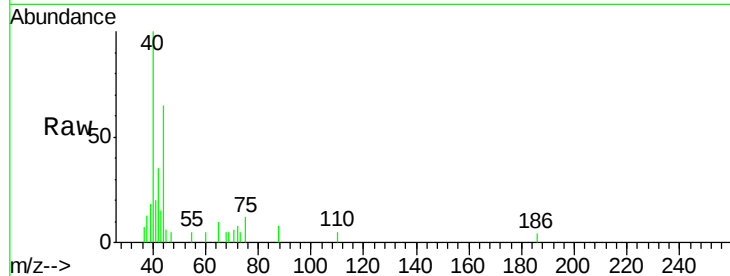




#29
Tetrahydrofuran
Concen: 1.314 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.02 min
Lab File: VW015108.D
Acq: 10 Mar 2020 12:41

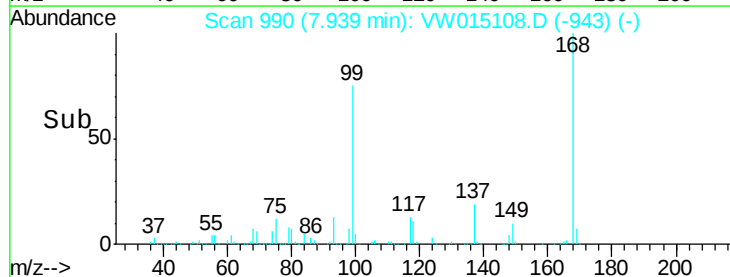
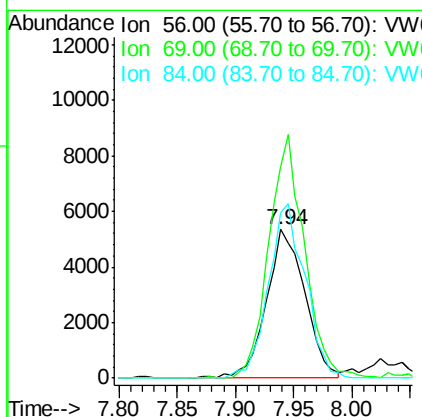
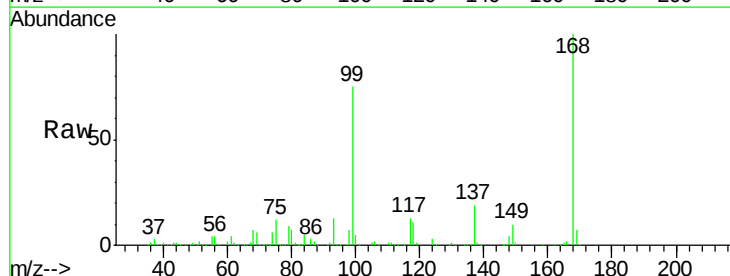
Instrument :
MSVOA_W
ClientSampled :

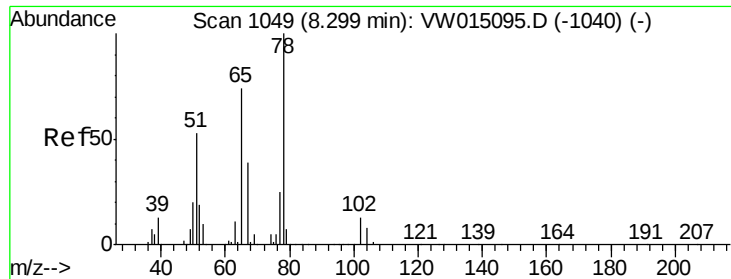
Tot Ion: 42 Resp: 1179
Ion Ratio Lower Upper
42 100
72 0.0 27.8 41.6#
71 26.7 26.4 39.6



#31
Cyclohexane
Concen: 1.340 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW015108.D
Acq: 10 Mar 2020 12:41

Tgt Ion: 56 Resp: 12251
Ion Ratio Lower Upper
56 100
69 142.7 24.6 37.0#
84 111.7 59.9 89.9#

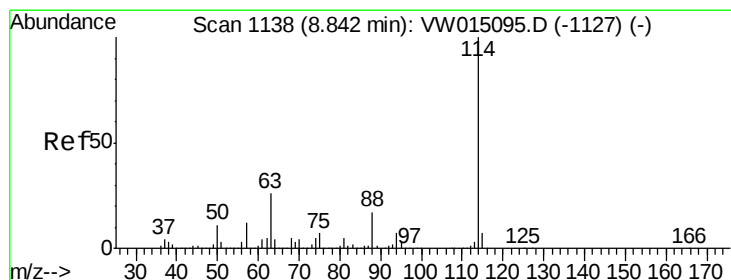
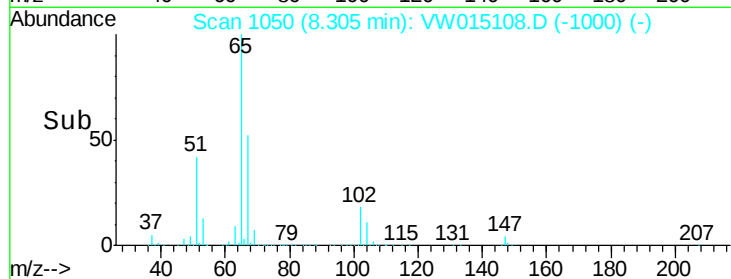
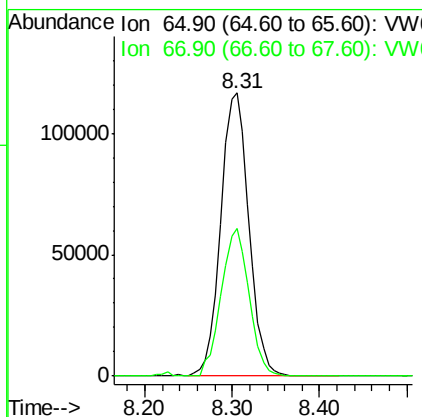
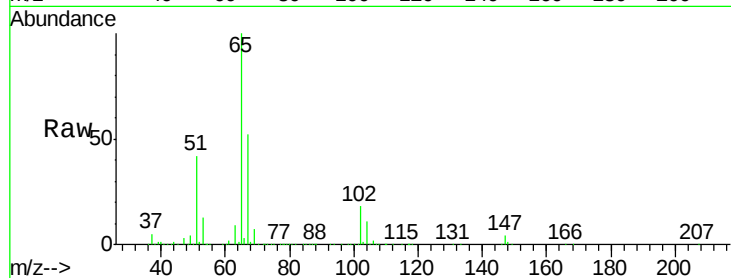




#33
 1,2-Dichloroethane-d4
 Concen: 56.739 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VW015108.D
 Acq: 10 Mar 2020 12:41

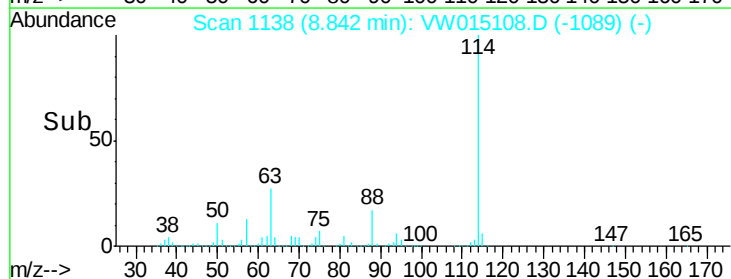
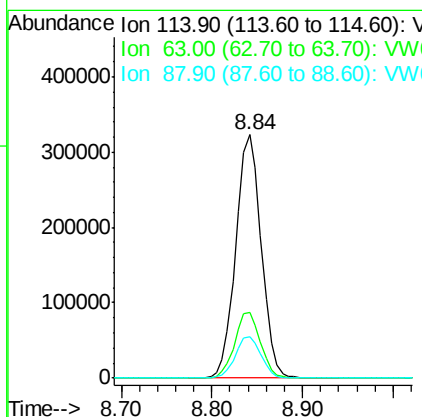
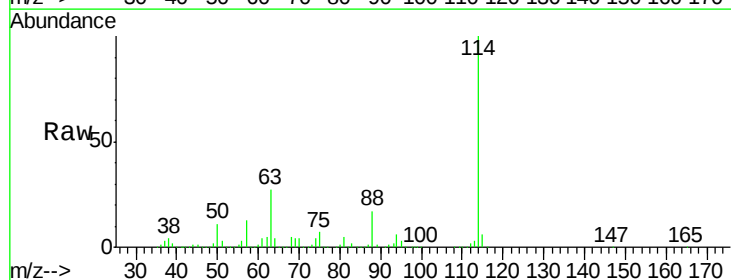
Instrument :
 MSVOA_W
 ClientSampled :

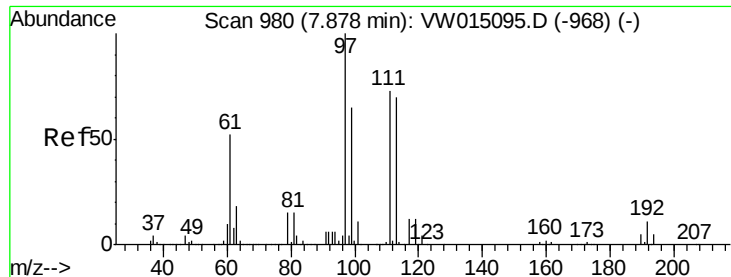
Tot Ion: 65 Resp: 260379
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW015108.D
 Acq: 10 Mar 2020 12:41

Tgt Ion: 114 Resp: 629015
 Ion Ratio Lower Upper
 114 100
 63 26.8 0.0 52.0
 88 16.9 0.0 34.2

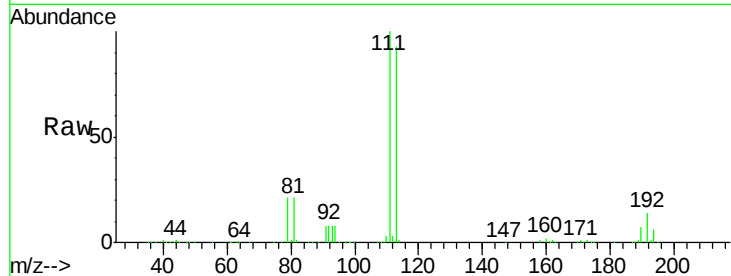




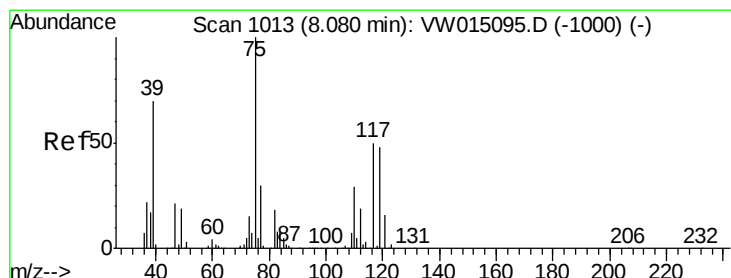
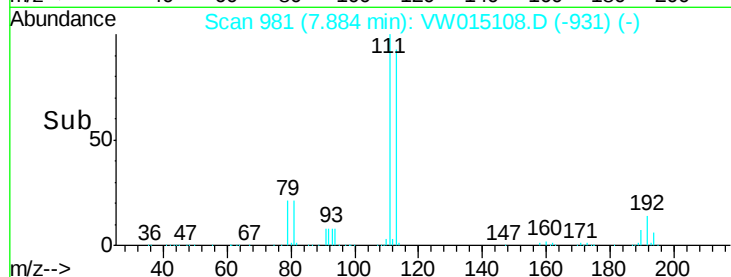
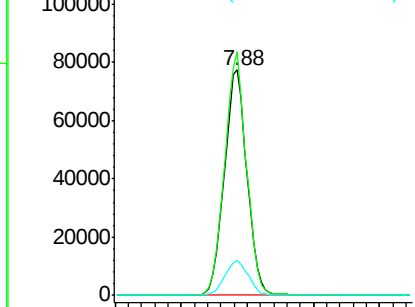
#35
 Dibromofluoromethane
 Concen: 48.714 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW015108.D
 Acq: 10 Mar 2020 12:41

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion:113 Resp: 183448
 Ion Ratio Lower Upper
 113 100
 111 104.0 83.6 125.4
 192 15.9 12.4 18.6

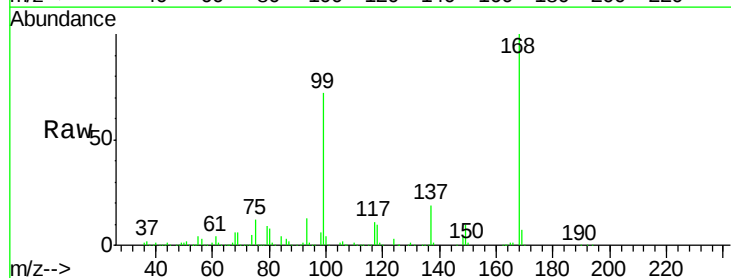


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

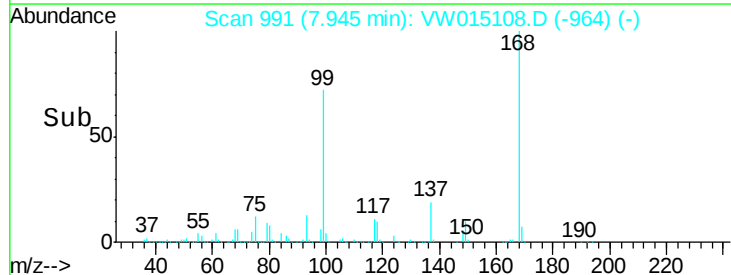
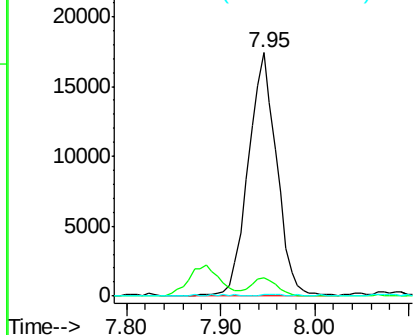


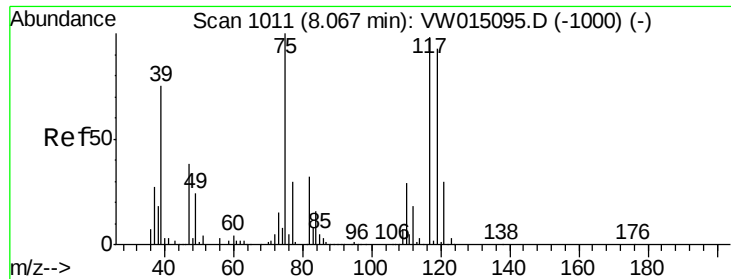
#36
 1,1-Dichloropropene
 Concen: 5.036 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW015108.D
 Acq: 10 Mar 2020 12:41

Tgt Ion: 75 Resp: 36739
 Ion Ratio Lower Upper
 75 100
 110 7.1 14.7 44.1#
 77 0.6 24.2 36.4#



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: 6.250 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

Instrument :

MSVOA_W

ClientSampled :

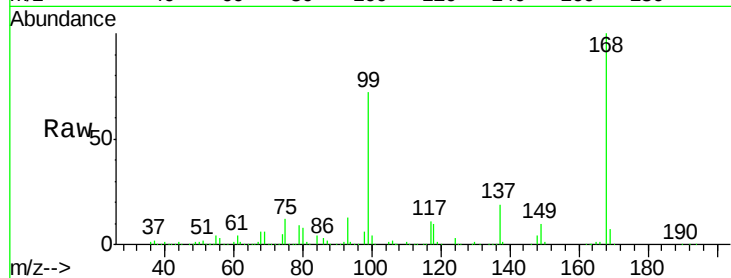
Tot Ion:117 Resp: 37113

Ion Ratio Lower Upper

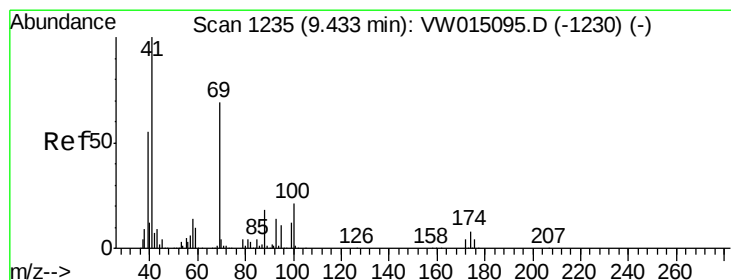
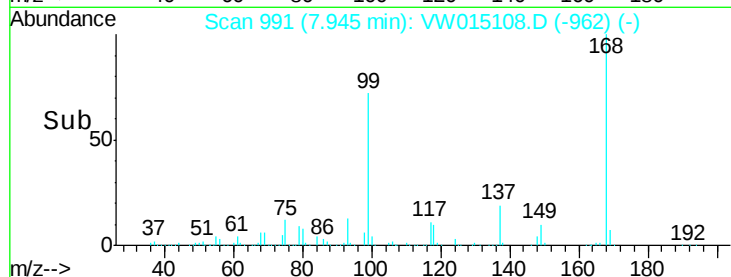
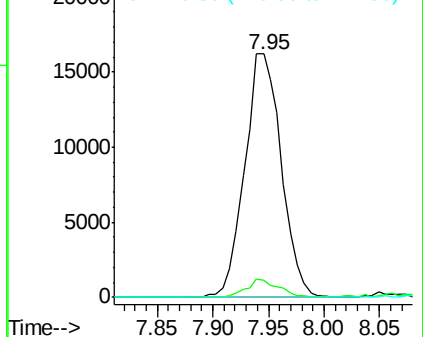
117 100

119 6.8 75.8 113.8#

121 0.0 24.5 36.7#



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: 3.110 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.03 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

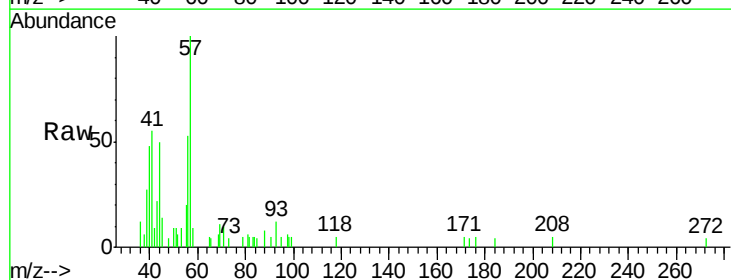
Tgt Ion: 41 Resp: 1973

Ion Ratio Lower Upper

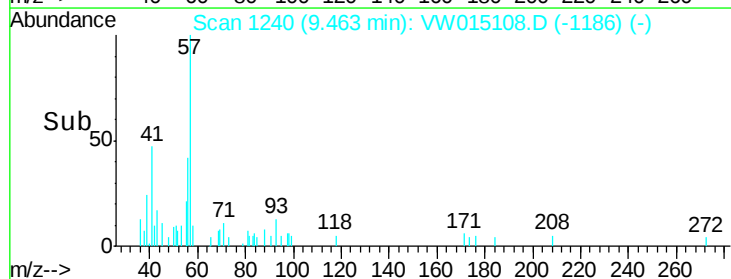
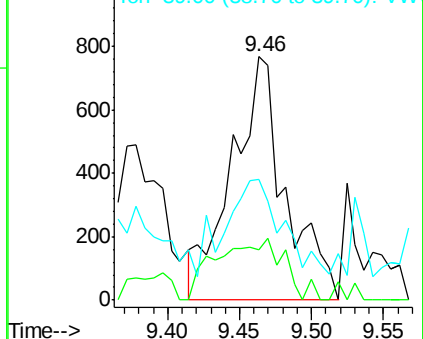
41 100

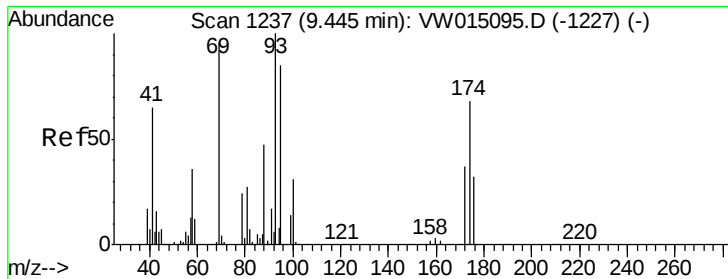
69 30.9 58.7 88.1#

39 46.0 45.1 67.7



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





#49

1,4-Dioxane

Concen: 4.678 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.01 min

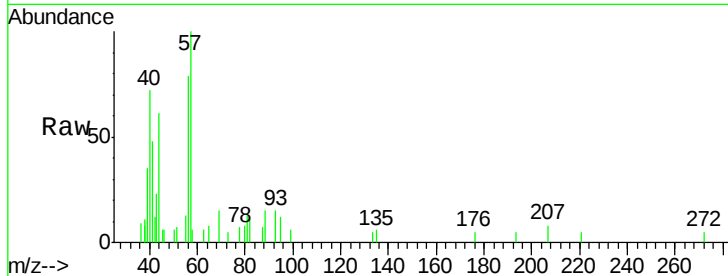
Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

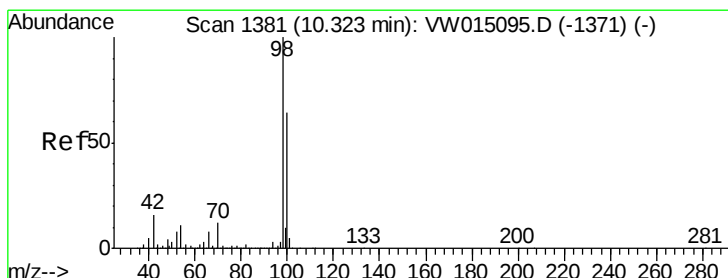
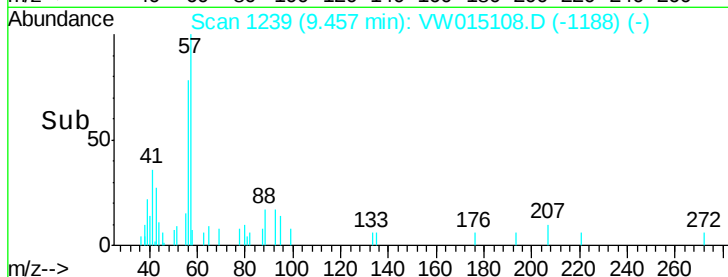
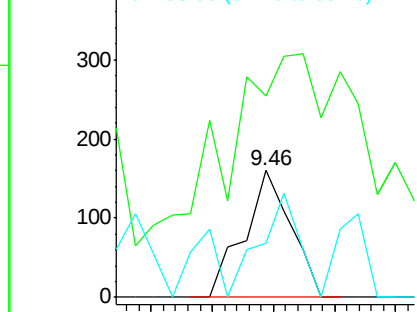
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 88 Resp: 170

Ion	Ratio	Lower	Upper
88	100		
43	348.8	35.8	53.8#
58	68.8	64.0	96.0



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 46.265 ug/l

RT: 10.32 min Scan# 1381

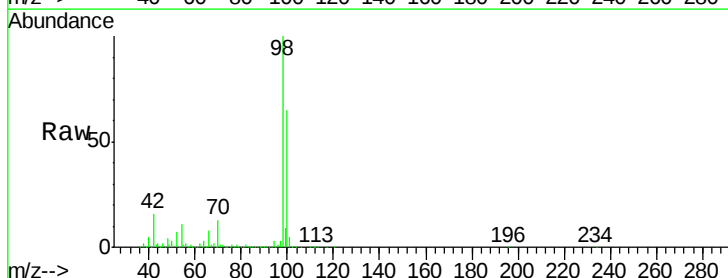
Delta R.T. 0.00 min

Lab File: VW015108.D

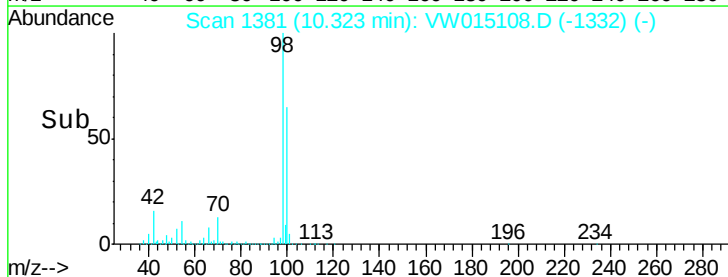
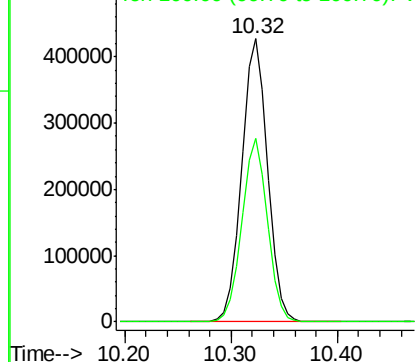
Acq: 10 Mar 2020 12:41

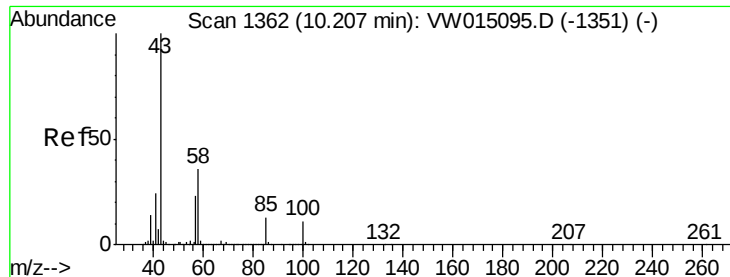
Tgt Ion: 98 Resp: 729619

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.2	78.2



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.271 ug/l

RT: 10.20 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

Instrument :

MSVOA_W

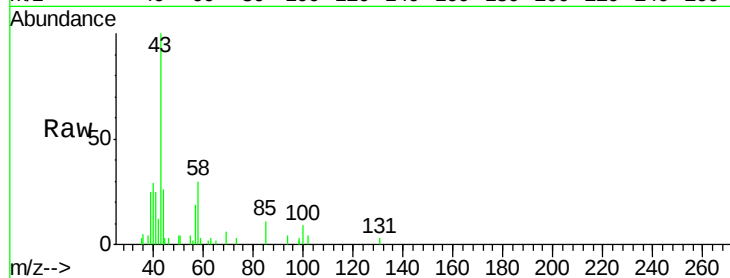
ClientSampled :

Tot Ion: 43 Resp: 4576

Ion Ratio Lower Upper

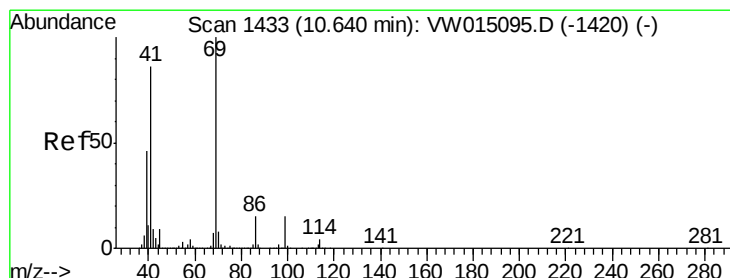
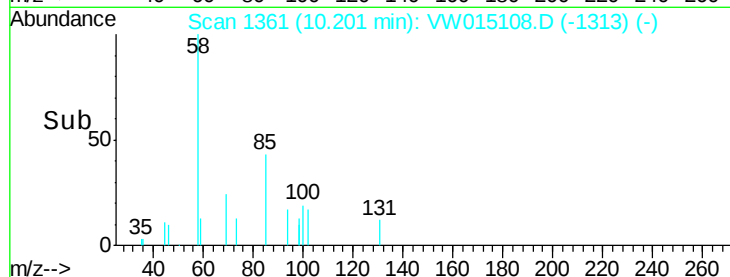
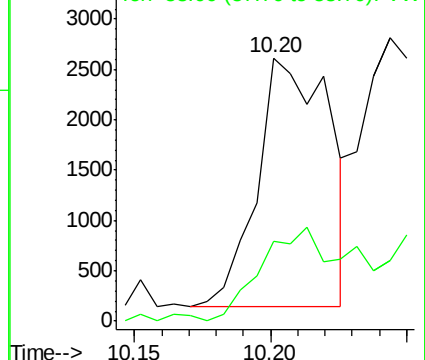
43 100

58 35.9 28.0 42.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#56

Ethyl methacrylate

Concen: 2.134 ug/l

RT: 10.65 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

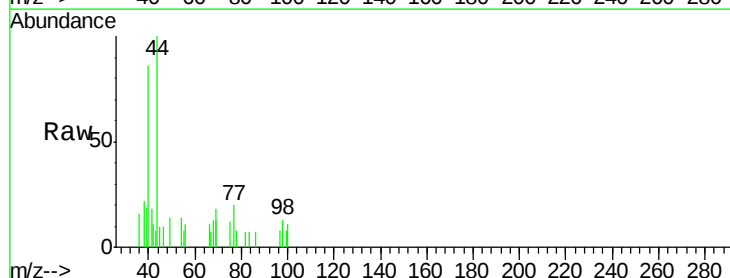
Tgt Ion: 69 Resp: 443

Ion Ratio Lower Upper

69 100

41 27.3 65.8 98.6#

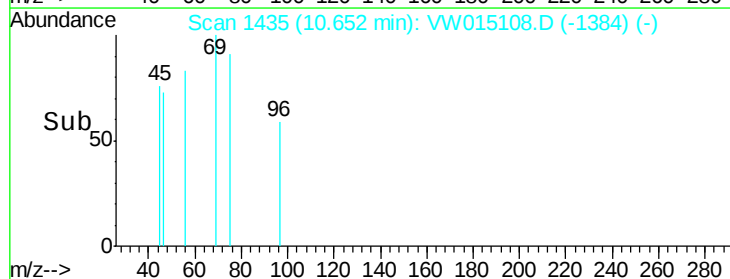
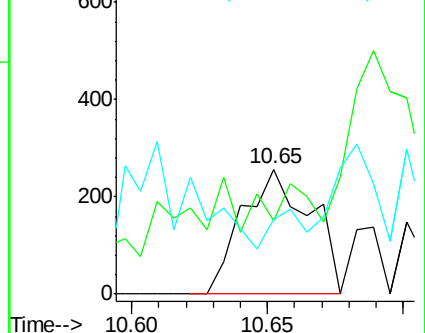
39 0.0 31.2 46.8#

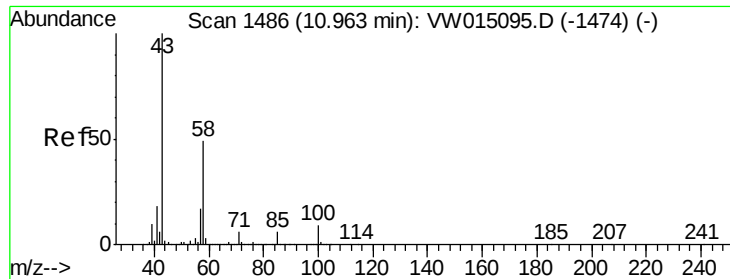


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

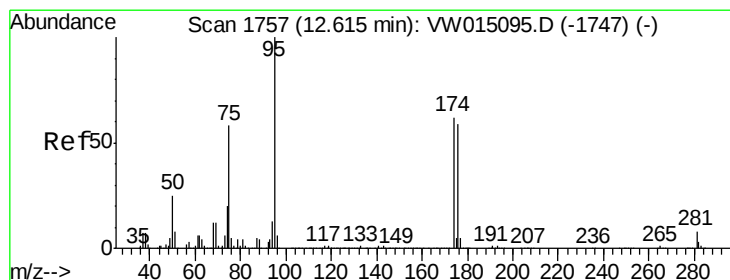
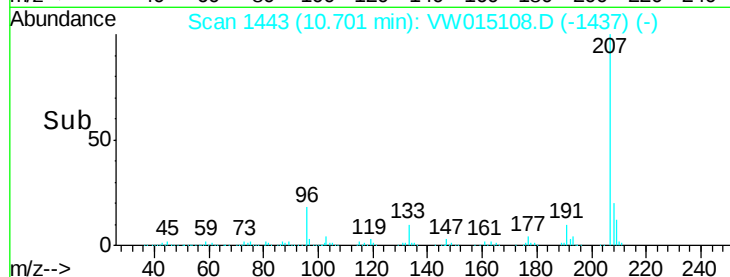
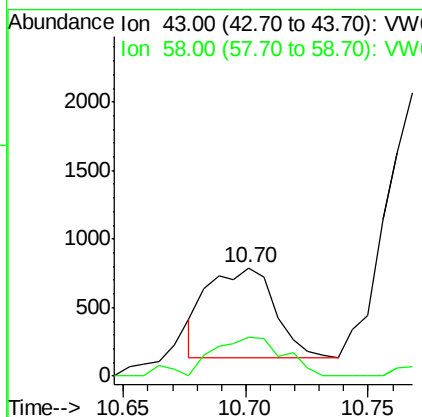
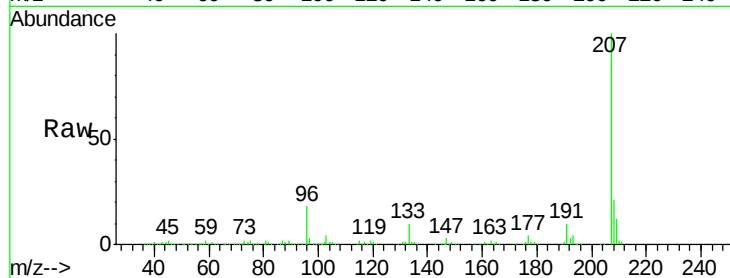




#59
2-Hexanone
Concen: 5.148 ug/l
RT: 10.70 min Scan# 1443
Delta R.T. -0.26 min
Lab File: VW015108.D
Acq: 10 Mar 2020 12:41

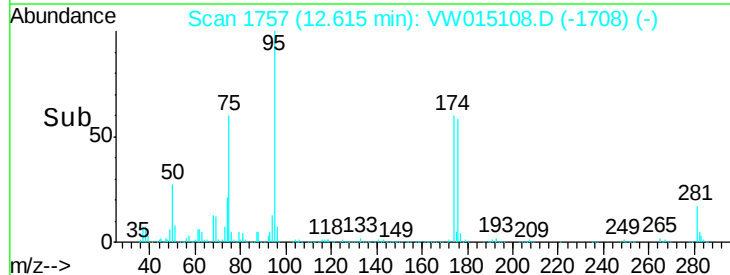
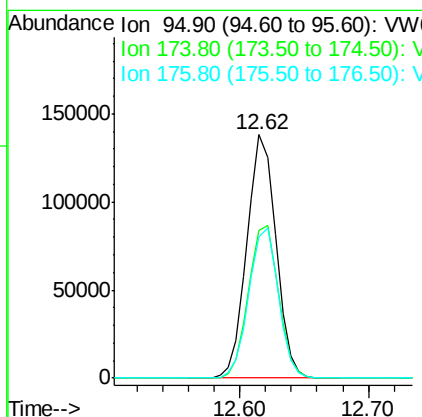
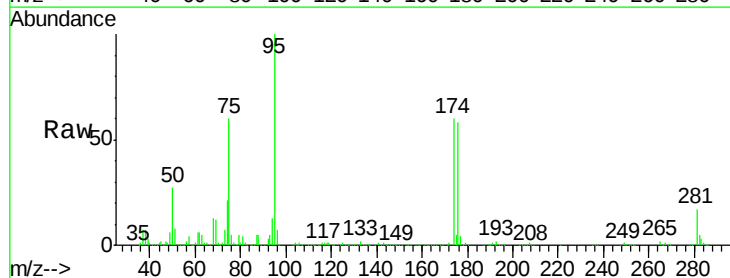
Instrument :
MSVOA_W
ClientSampled :

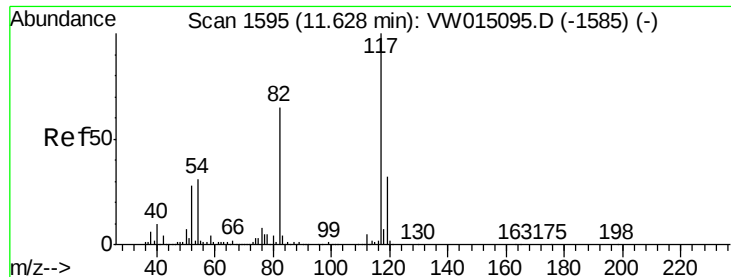
Tot Ion: 43 Resp: 1247
Ion Ratio Lower Upper
43 100
58 45.3 24.6 73.8



#62
4-Bromofluorobenzene
Concen: 41.070 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW015108.D
Acq: 10 Mar 2020 12:41

Tgt Ion: 95 Resp: 215146
Ion Ratio Lower Upper
95 100
174 65.1 0.0 126.8
176 62.8 0.0 121.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

Instrument :

MSVOA_W

ClientSampleId :

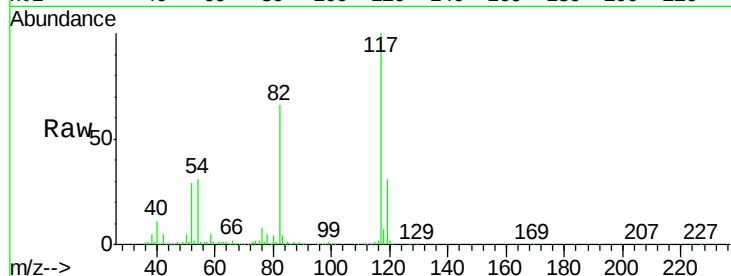
Tot Ion:117 Resp: 560667

Ion Ratio Lower Upper

117 100

82 65.5 52.2 78.2

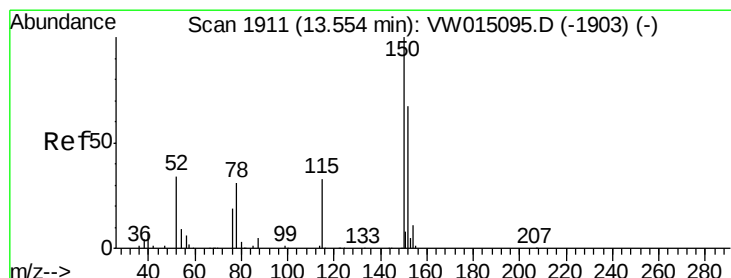
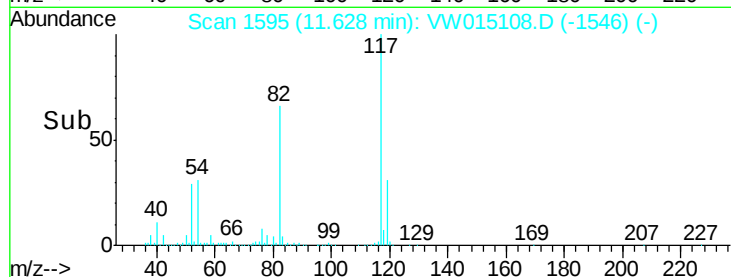
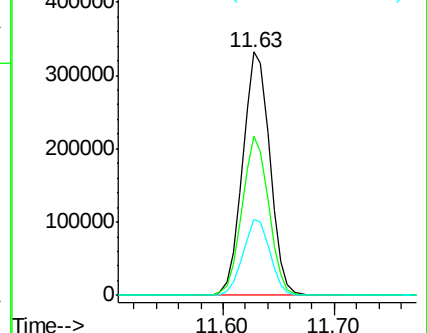
119 31.3 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. 0.00 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

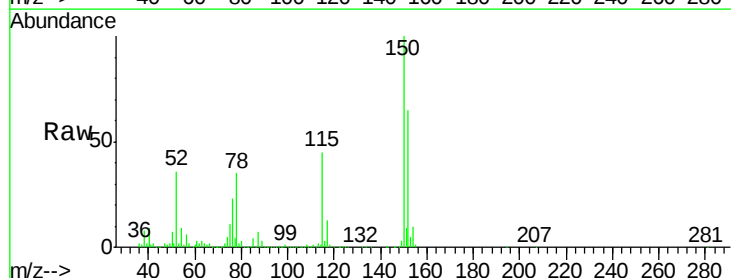
Tgt Ion:152 Resp: 215191

Ion Ratio Lower Upper

152 100

115 65.9 33.3 99.9

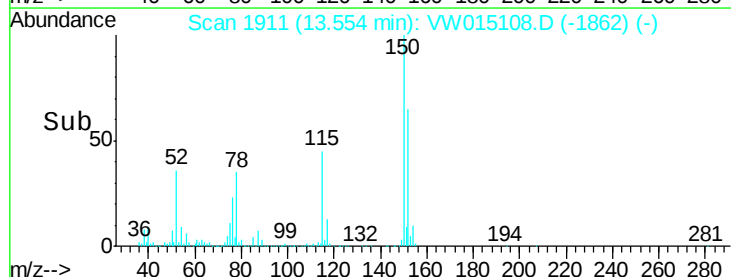
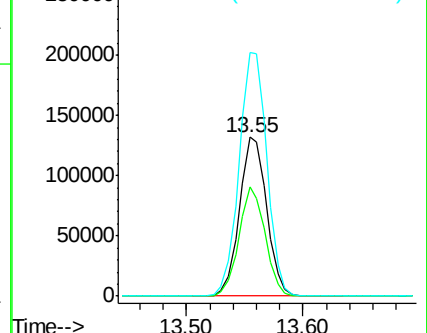
150 156.6 0.0 351.2

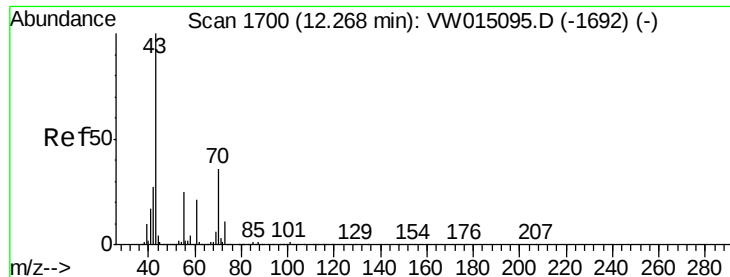


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.770 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 43 Resp: 371

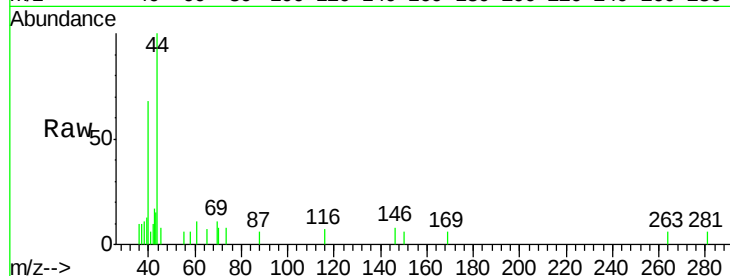
Ion Ratio Lower Upper

43 100

70 27.5 29.4 44.2#

55 66.6 20.3 30.5#

61 40.7 17.1 25.7#

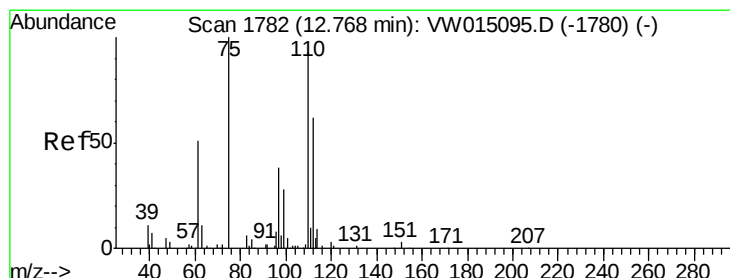
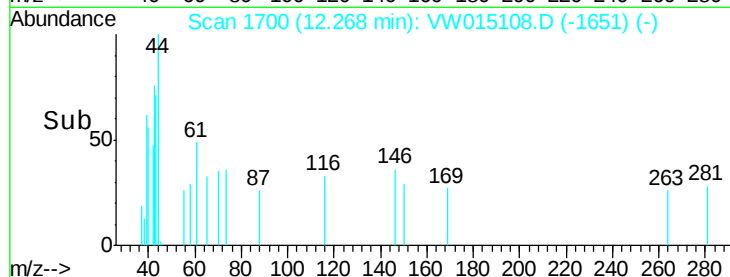
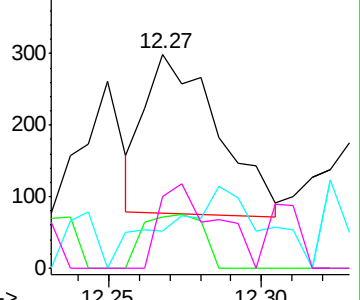


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 52.662 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW015108.D

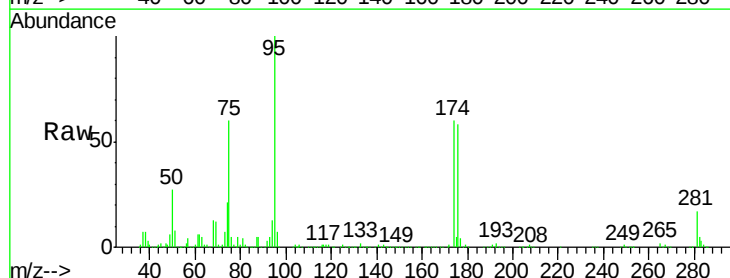
Acq: 10 Mar 2020 12:41

Tgt Ion: 75 Resp: 128077

Ion Ratio Lower Upper

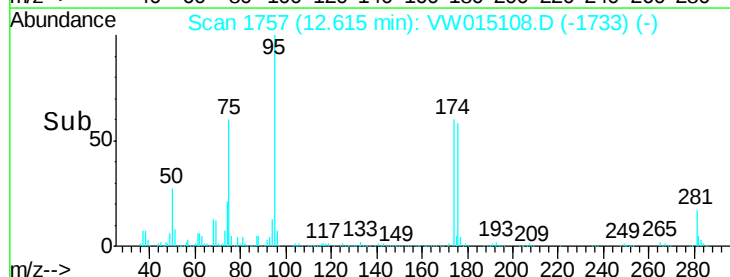
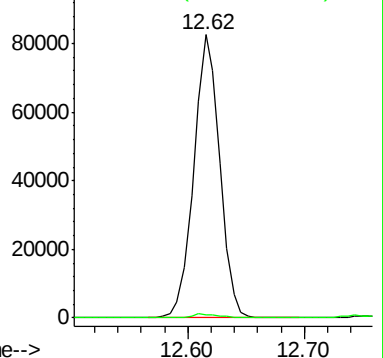
75 100

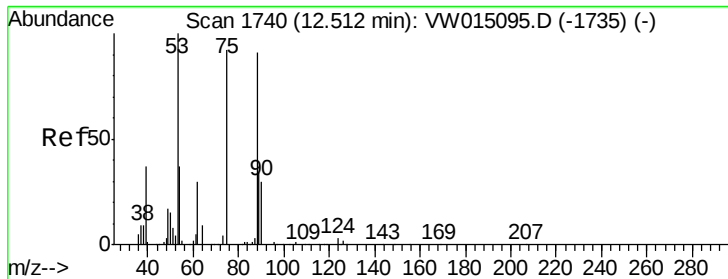
77 1.9 0.0 0.0#



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: 118.945 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

Instrument :

MSVOA_W

ClientSampleId :

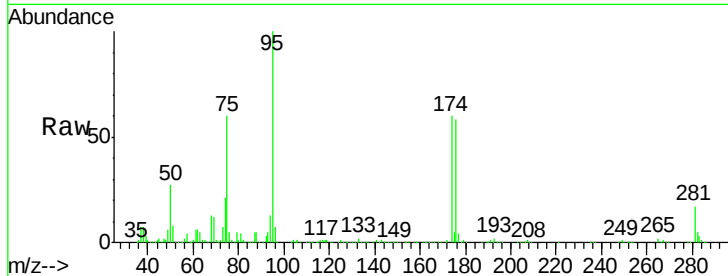
Tot Ion: 75 Resp: 128077

Ion Ratio Lower Upper

75 100

53 0.3 88.4 132.6#

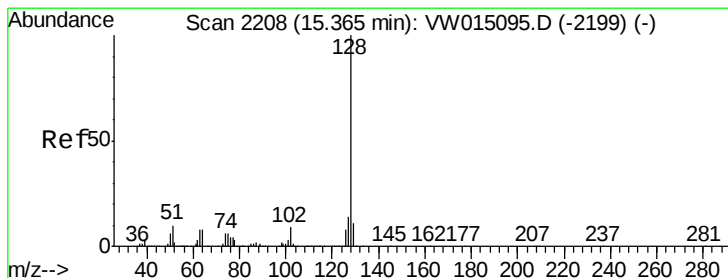
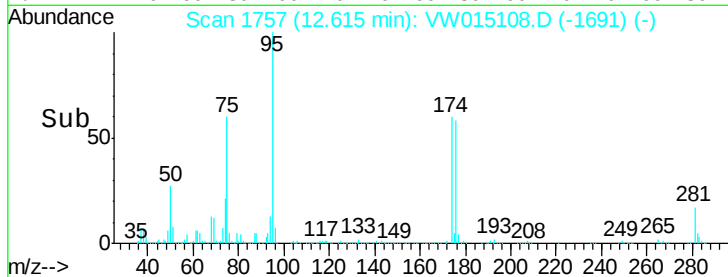
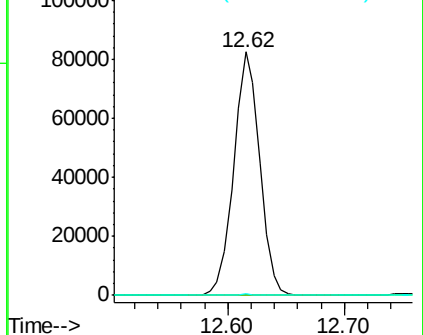
89 0.4 33.1 49.7#



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: 3.177 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW015108.D

Acq: 10 Mar 2020 12:41

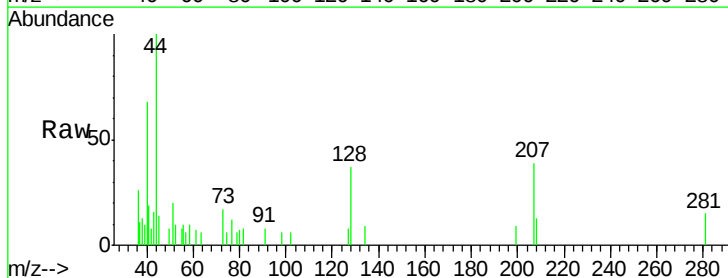
Tgt Ion: 128 Resp: 493

Ion Ratio Lower Upper

128 100

127 12.2 10.7 16.1

129 0.0 8.6 12.8#



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

