

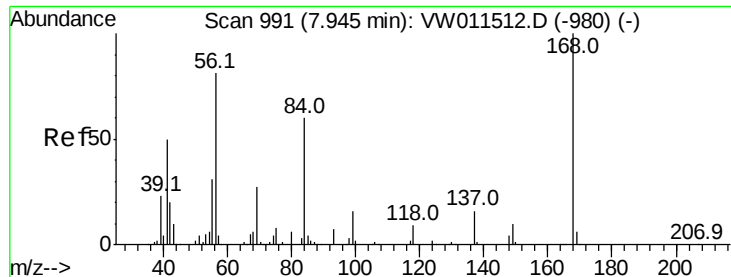
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082019\
 Data File : VW012031.D
 Acq On : 20 Aug 2019 15:01
 Operator : SY/VA
 Sample : K4388-15
 Misc : 7.95G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 20 17:51:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	36668	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	64510	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	50991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	12980	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	28928	68.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	137.40%	
35) Dibromofluoromethane	7.89	113	22015	60.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.66%	
50) Toluene-d8	10.32	98	68885	46.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.98%	
62) 4-Bromofluorobenzene	12.62	95	20177	38.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.38%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.69	74	486	2.248	ug/l	95
11) Tert butyl alcohol	5.18	59	61	Below Cal	#	72
13) Acrolein	3.90	56	54	1.787	ug/l #	15
16) Acetone	4.14	43	321	2.397	ug/l #	47
20) Methylene Chloride	4.92	84	5927	12.831	ug/l	87
29) Tetrahydrofuran	7.54	42	1530	15.273	ug/l	89
31) Cyclohexane	7.95	56	882	1.120	ug/l #	10
36) 1,1-Dichloropropene	7.95	75	3079	4.590	ug/l #	51
38) Carbon Tetrachloride	7.95	117	3720	6.478	ug/l #	19
41) Methacrylonitrile	7.54	41	1356	5.878	ug/l #	42
74) N-amyl acetate	12.26	43	326	1.075	ug/l #	62
76) 1,2,3-Trichloropropane	12.62	75	10089	73.458	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	10089	169.296	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.69	75	42	1.352	ug/l #	5
95) Naphthalene	15.37	128	86	2.227	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

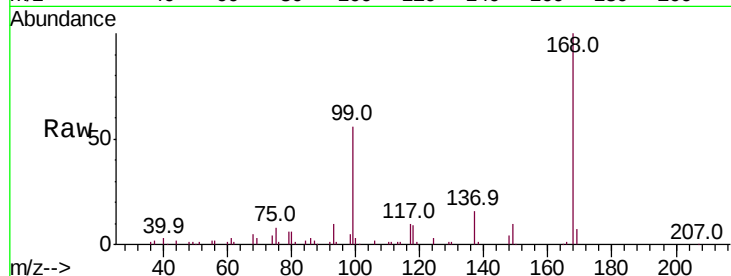
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 36668

Ion Ratio Lower Upper

168 100

99 55.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

20000 Ion 98.90 (98.60 to 99.60): VW

7.95

15000

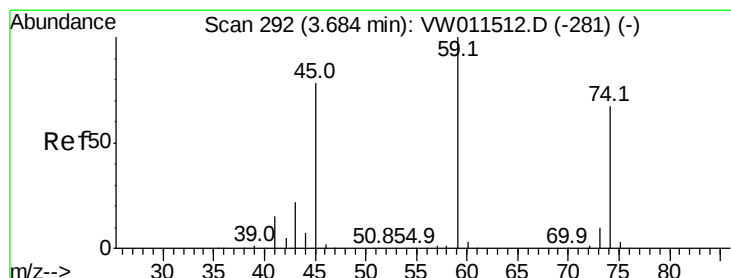
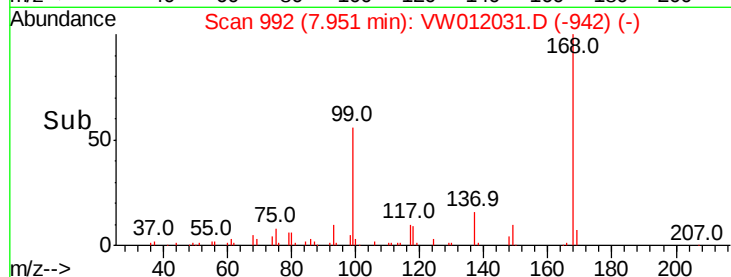
10000

5000

0

7.90 8.00

Time-->



#8

Diethyl Ether

Concen: 2.248 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW012031.D

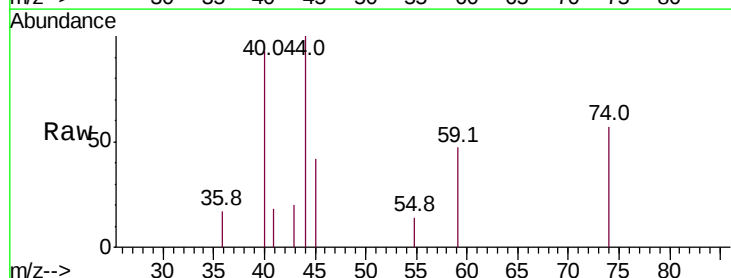
Acq: 20 Aug 2019 15:01

Tgt Ion: 74 Resp: 486

Ion Ratio Lower Upper

74 100

45 113.2 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

300 Ion 45.00 (44.70 to 45.70): VW

250

200

150

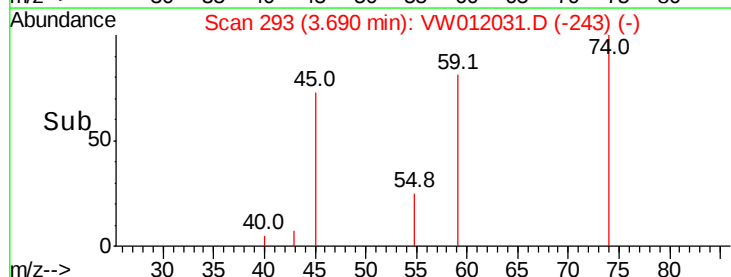
100

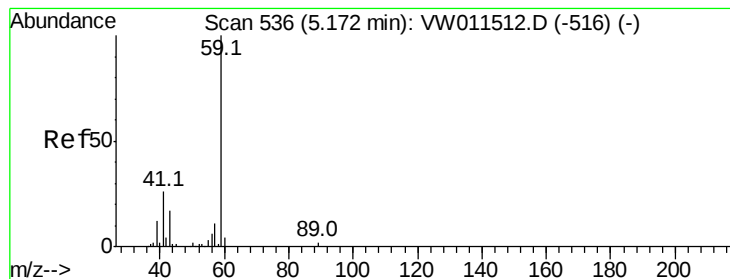
50

0

3.65 3.70 3.75

Time-->



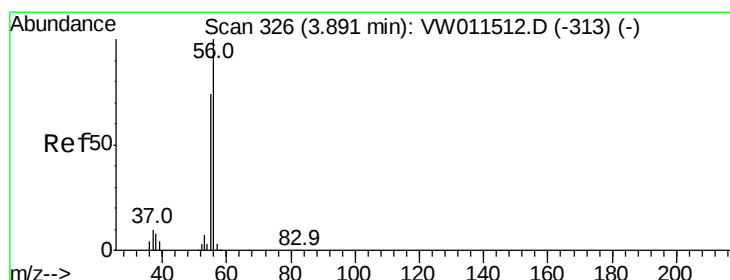
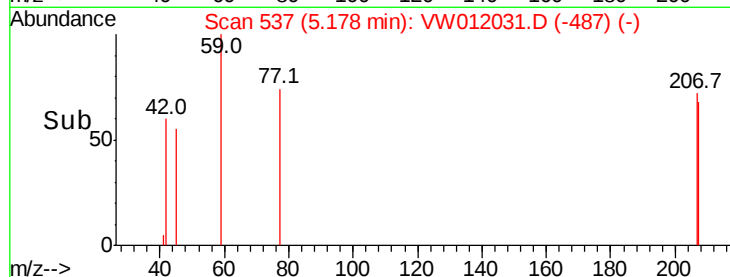
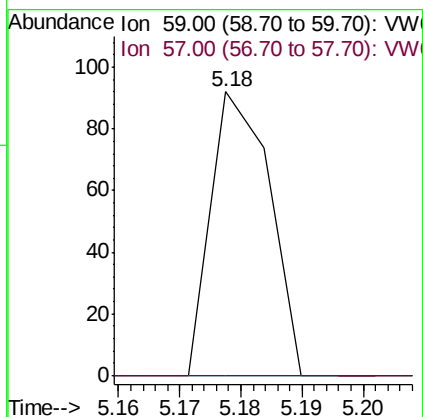
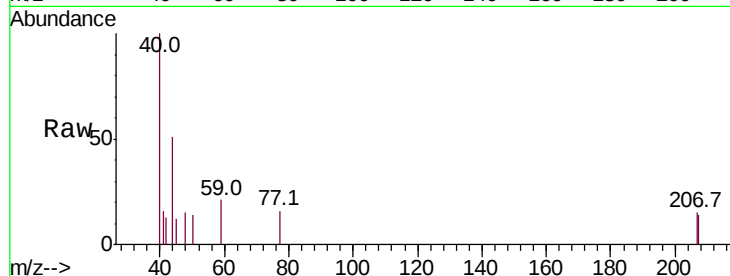


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.18 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VW012031.D
 Acq: 20 Aug 2019 15:01

Instrument :
 MSVOA_W
 ClientSampled :

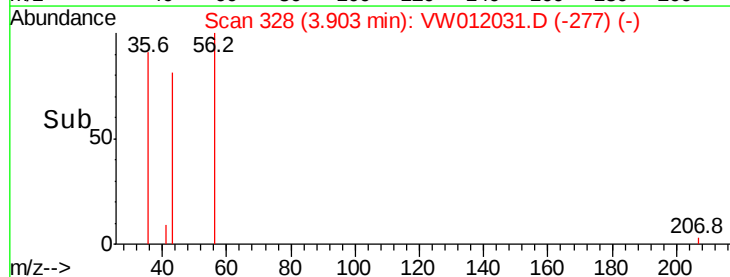
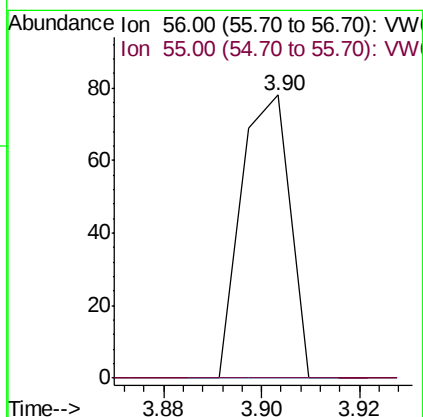
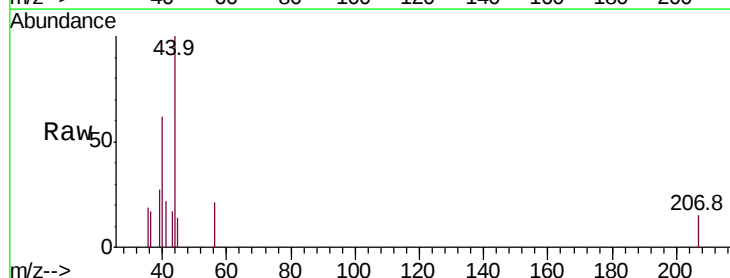
Tot Ion: 59 Resp: 61
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

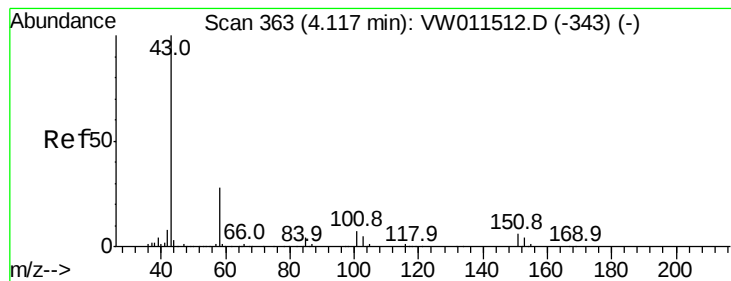


#13

Acrolein
 Concen: 1.787 ug/l
 RT: 3.90 min Scan# 328
 Delta R.T. 0.01 min
 Lab File: VW012031.D
 Acq: 20 Aug 2019 15:01

Tgt Ion: 56 Resp: 54
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.0 84.0#





#16

Acetone

Concen: 2.397 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

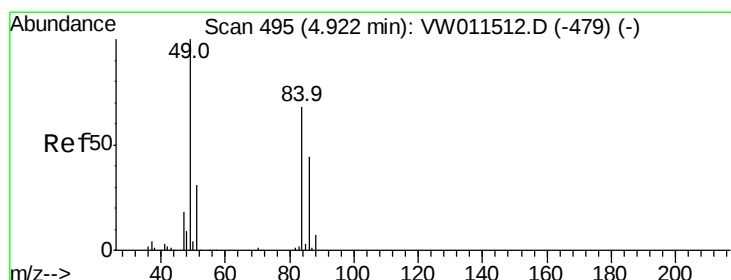
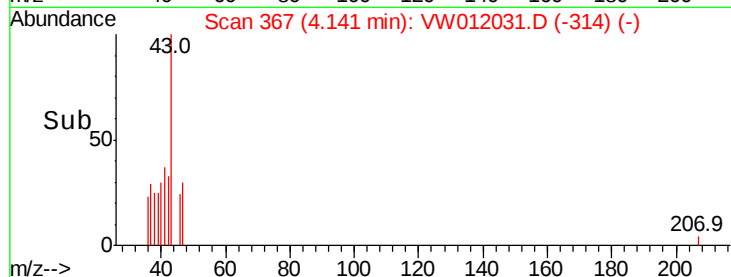
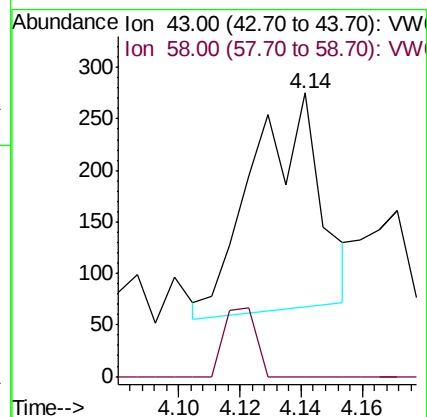
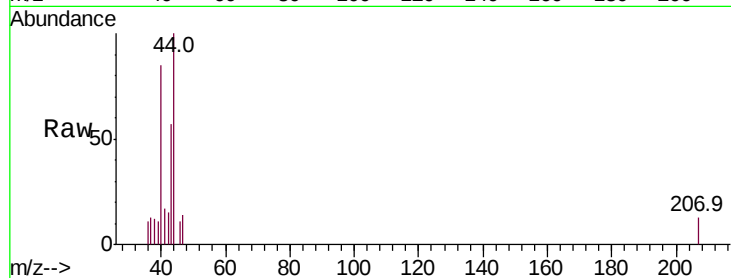
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 321

Ion Ratio Lower Upper

43 100

58 0.0 22.3 33.5#



#20

Methylene Chloride

Concen: 12.831 ug/l

RT: 4.92 min Scan# 495

Delta R.T. -0.00 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

Tgt Ion: 84 Resp: 5927

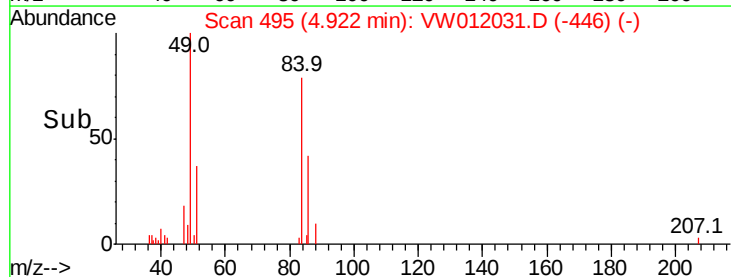
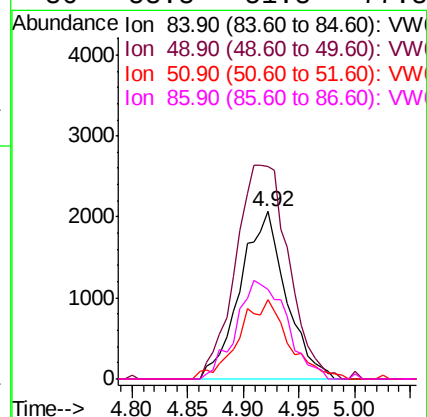
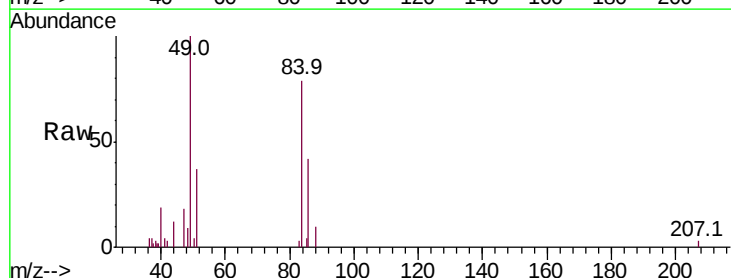
Ion Ratio Lower Upper

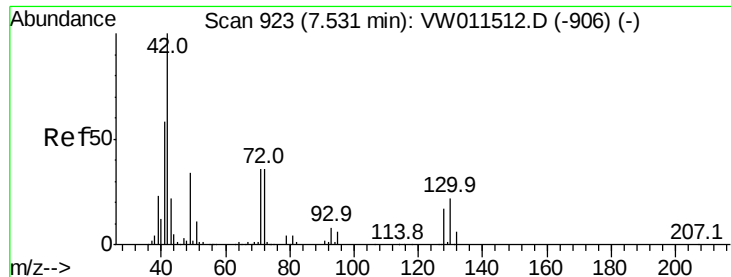
84 100

49 126.9 117.8 176.6

51 47.1 37.0 55.4

86 53.8 51.8 77.8

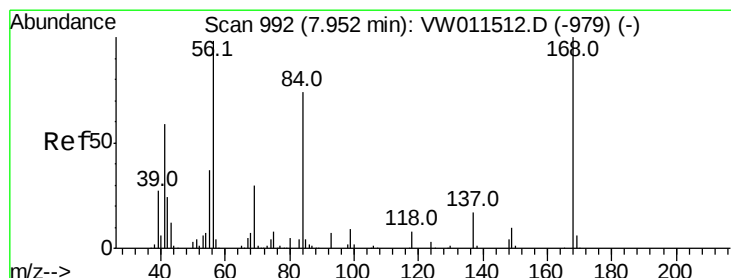
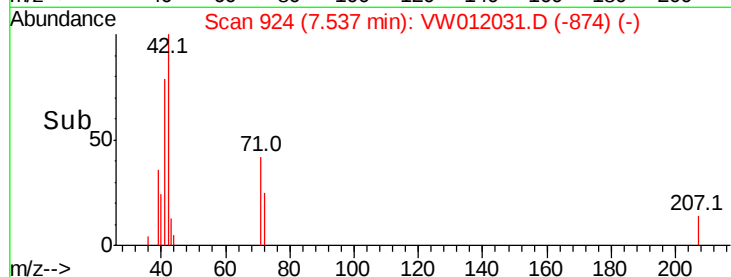
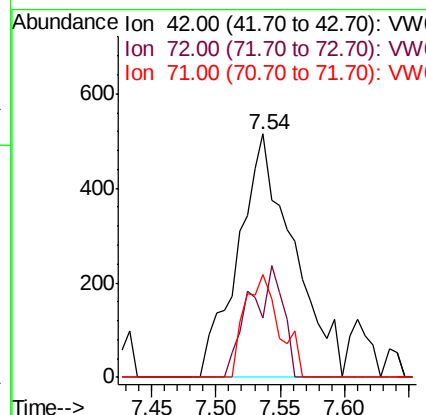
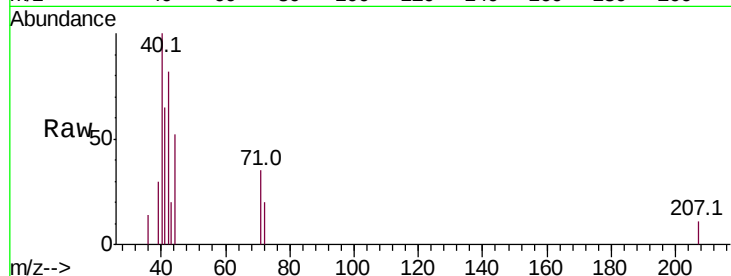




#29
Tetrahydrofuran
Concen: 15.273 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012031.D
Acq: 20 Aug 2019 15:01

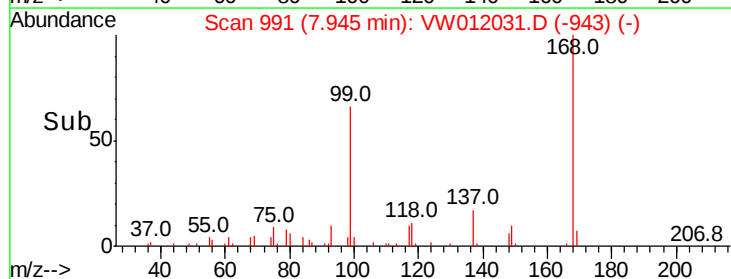
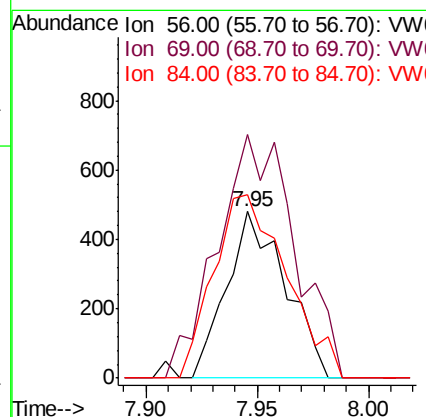
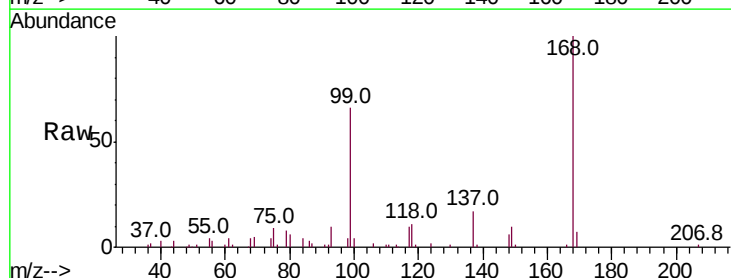
Instrument :
MSVOA_W
ClientSampleId :

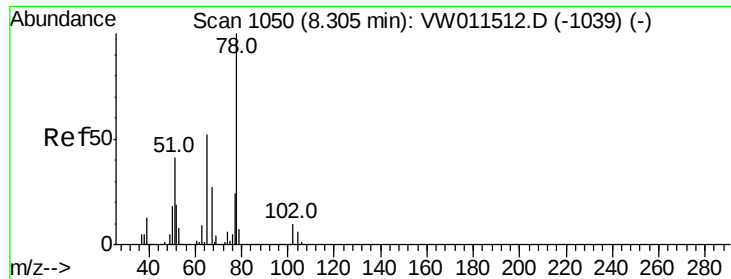
Tot Ion: 42 Resp: 1530
Ion Ratio Lower Upper
42 100
72 28.0 27.1 40.7
71 26.5 26.2 39.4



#31
Cyclohexane
Concen: 1.120 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012031.D
Acq: 20 Aug 2019 15:01

Tgt Ion: 56 Resp: 882
Ion Ratio Lower Upper
56 100
69 145.9 24.3 36.5#
84 110.0 60.4 90.6#





#33

1,2-Dichloroethane-d4

Concen: 68.704 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

Instrument :

MSVOA_W

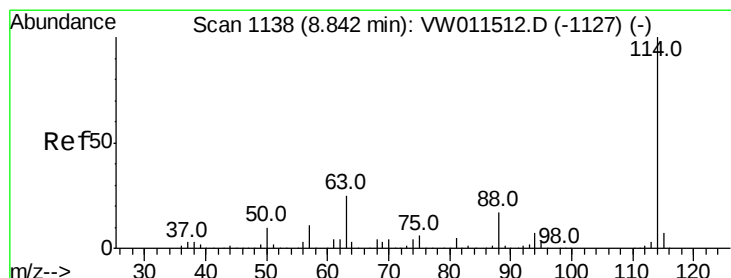
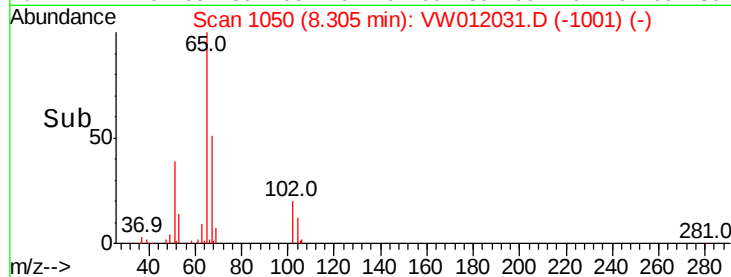
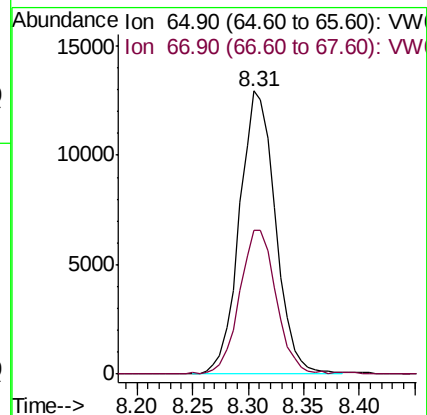
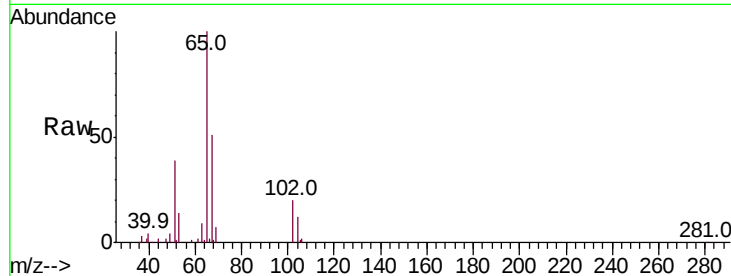
ClientSampled :

Tot Ion: 65 Resp: 28928

Ion Ratio Lower Upper

65 100

67 51.8 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

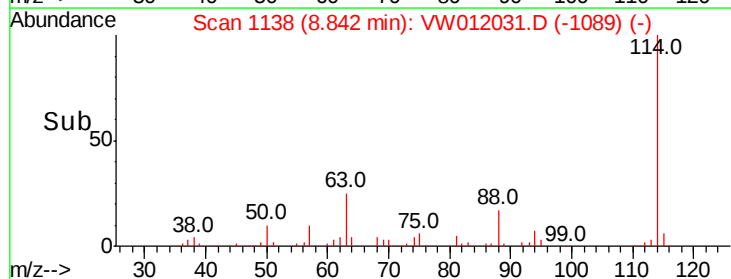
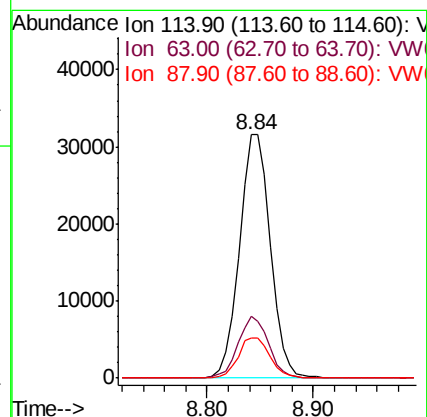
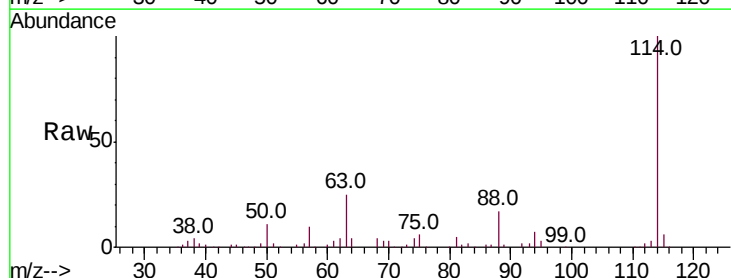
Tgt Ion: 114 Resp: 64510

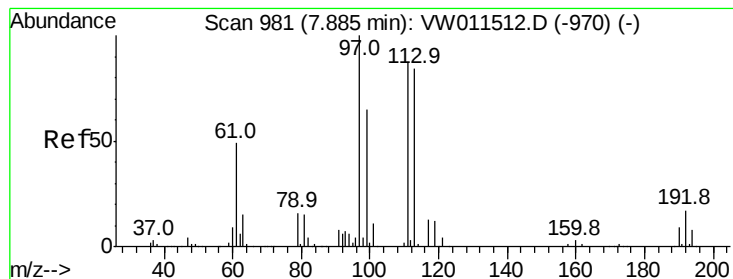
Ion Ratio Lower Upper

114 100

63 25.2 0.0 49.2

88 16.7 0.0 33.8





#35

Dibromofluoromethane

Concen: 60.830 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

Instrument :
MSVOA_W
ClientSampled :

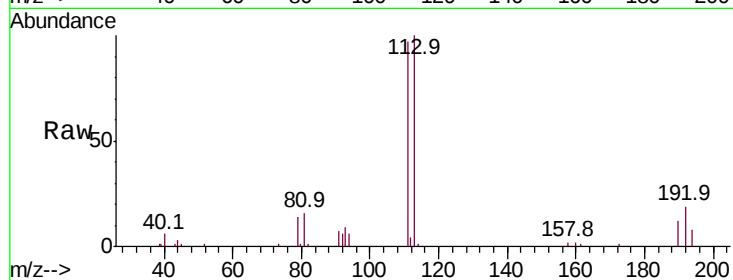
Tot Ion:113 Resp: 22015

Ion Ratio Lower Upper

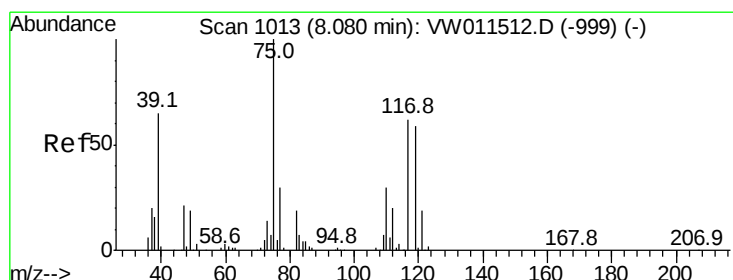
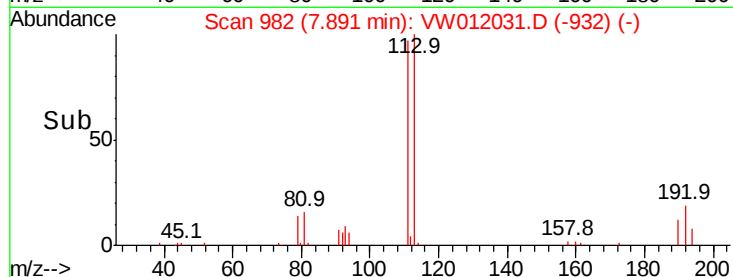
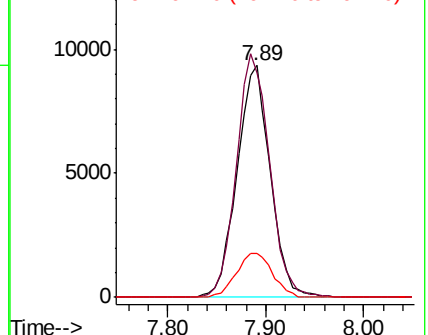
113 100

111 105.1 82.7 124.1

192 20.5 16.1 24.1



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: 4.590 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

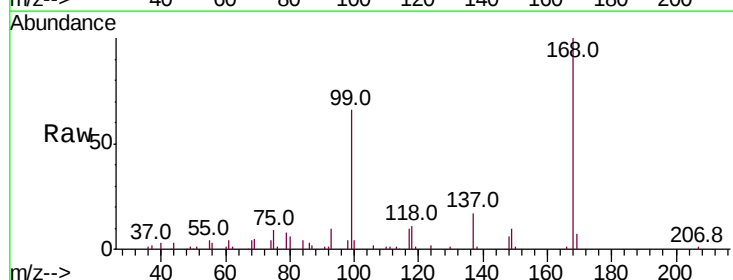
Tgt Ion: 75 Resp: 3079

Ion Ratio Lower Upper

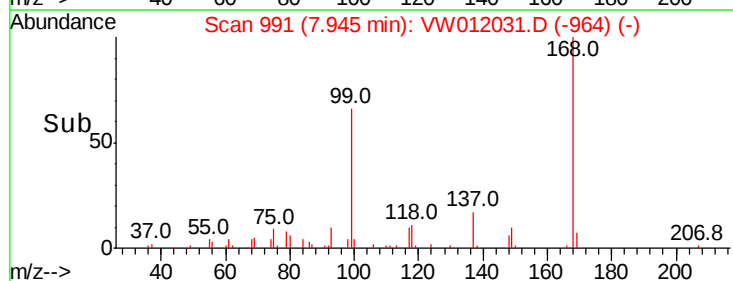
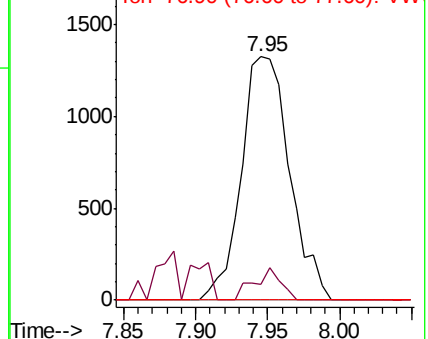
75 100

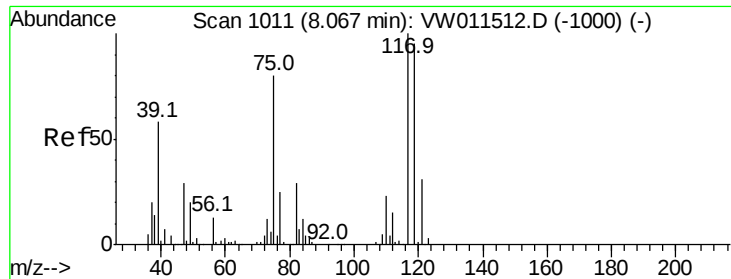
110 7.4 15.6 46.8#

77 0.0 24.3 36.5#



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

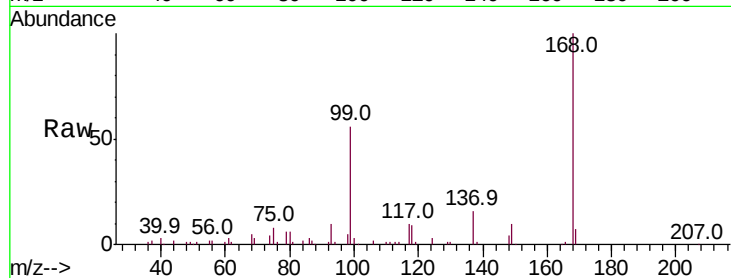




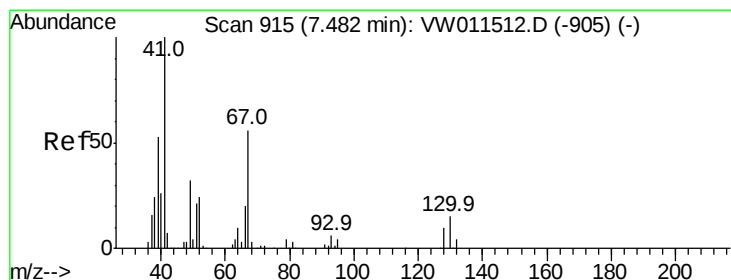
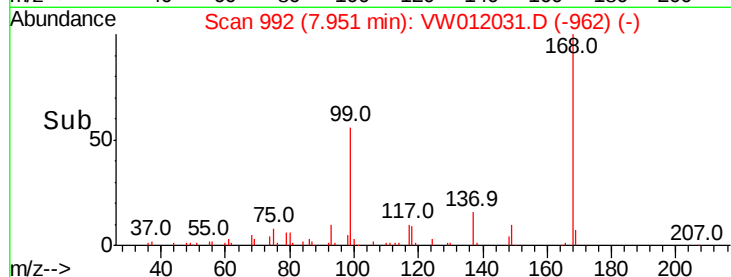
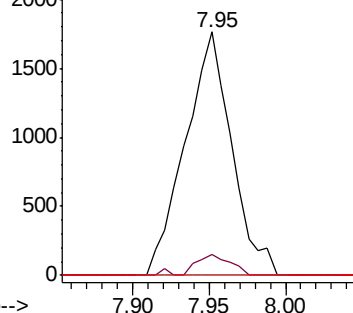
#38
Carbon Tetrachloride
Concen: 6.478 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW012031.D
Acq: 20 Aug 2019 15:01

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 3720
Ion Ratio Lower Upper
117 100
119 8.4 75.8 113.6#
121 0.0 24.7 37.1#

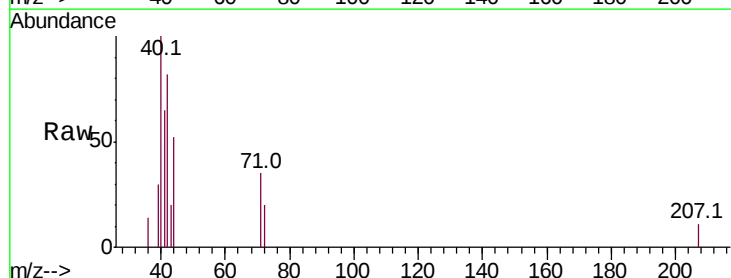


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

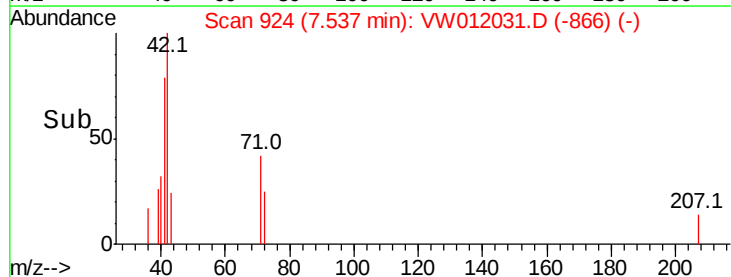
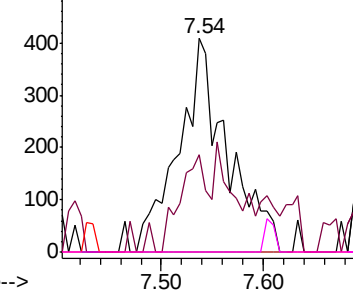


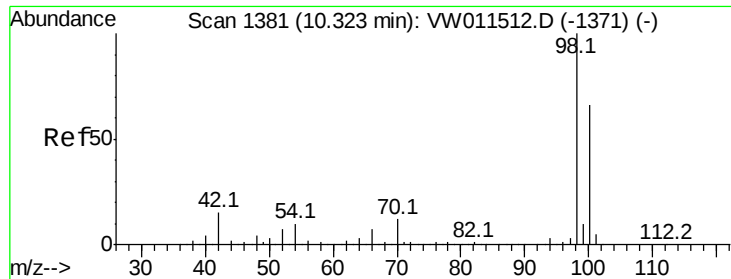
#41
Methacrylonitrile
Concen: 5.878 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.05 min
Lab File: VW012031.D
Acq: 20 Aug 2019 15:01

Tgt Ion: 41 Resp: 1356
Ion Ratio Lower Upper
41 100
39 26.2 43.0 64.4#
67 0.0 47.5 71.3#
52 0.0 21.0 31.6#



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW





#50

Toluene-d8

Concen: 46.488 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

Instrument :

MSVOA_W

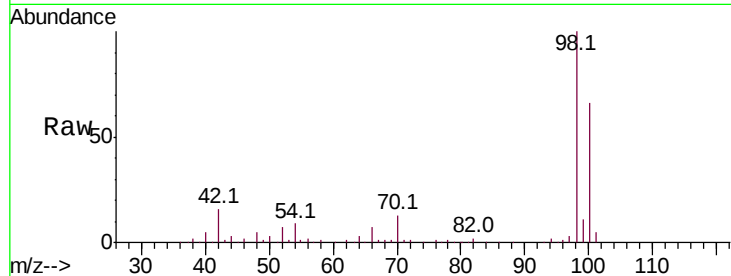
ClientSampleId :

Tot Ion: 98 Resp: 68885

Ion Ratio Lower Upper

98 100

100 65.0 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

40000

30000

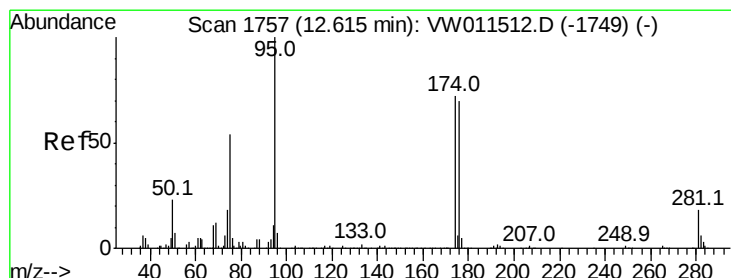
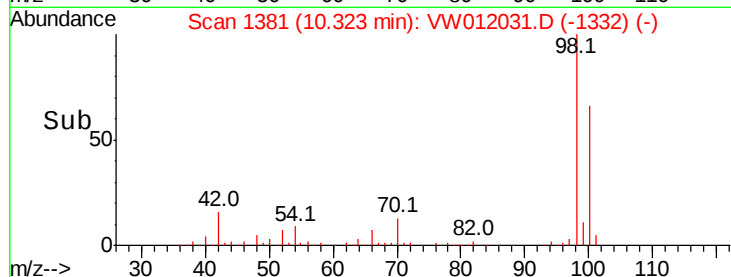
20000

10000

0

Time-->

10.25 10.30 10.35 10.40



#62

4-Bromofluorobenzene

Concen: 38.194 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

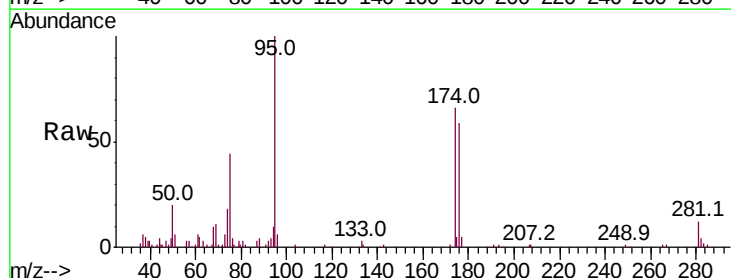
Tgt Ion: 95 Resp: 20177

Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.2

176 70.3 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

15000

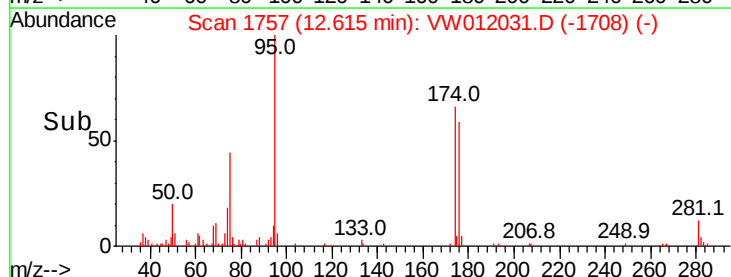
10000

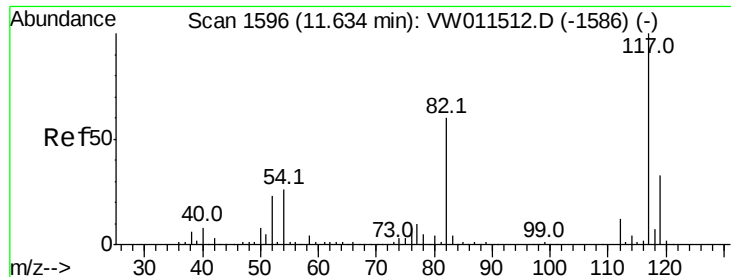
5000

0

Time-->

12.60 12.70

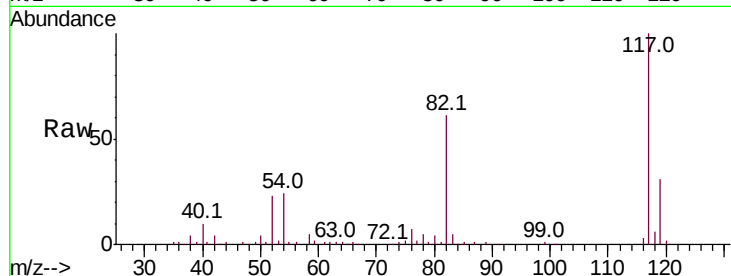




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012031.D
Acq: 20 Aug 2019 15:01

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.6	47.9	71.9
119	31.2	26.2	39.2

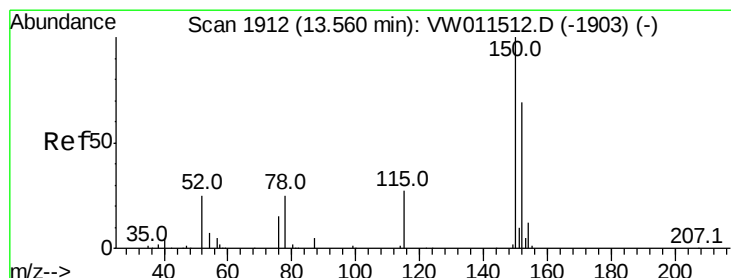
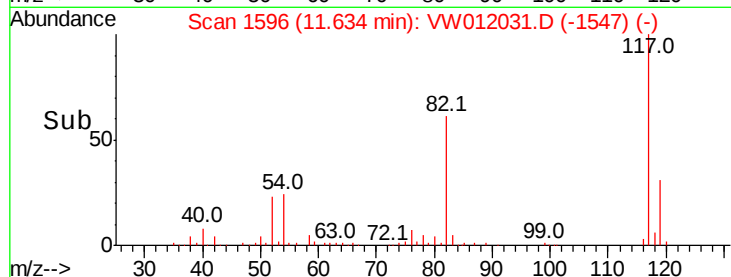
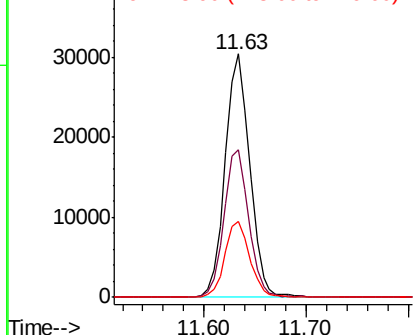


Abundance

Ion 116.90 (116.60 to 117.60): V

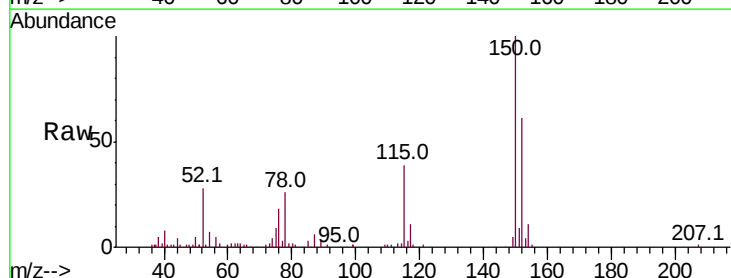
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012031.D
Acq: 20 Aug 2019 15:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.5	30.5	91.5
150	156.5	0.0	352.6

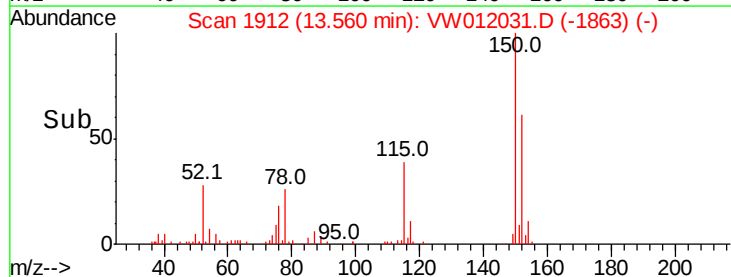
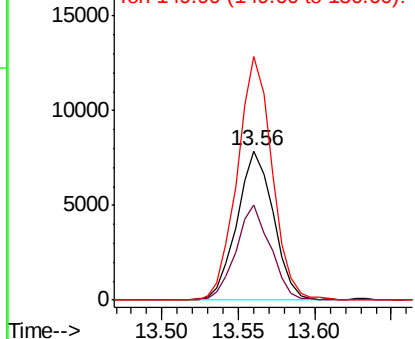


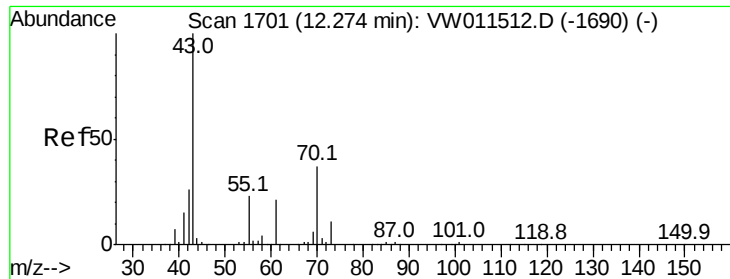
Abundance

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: 1.075 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 43 Resp: 326

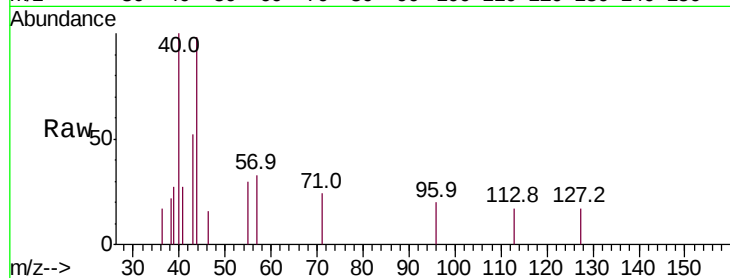
Ion Ratio Lower Upper

43 100

70 5.8 28.6 43.0#

55 26.4 17.8 26.8

61 0.0 17.0 25.6#

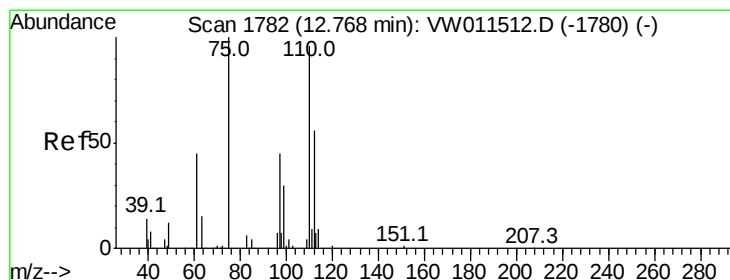
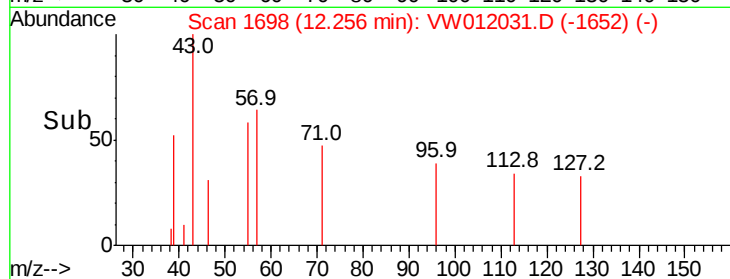
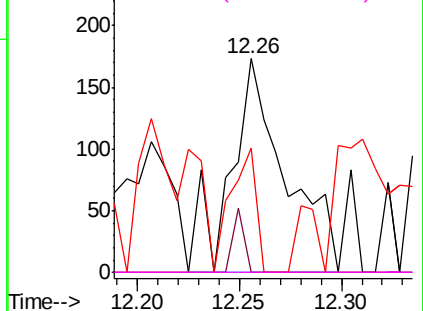


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 73.458 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012031.D

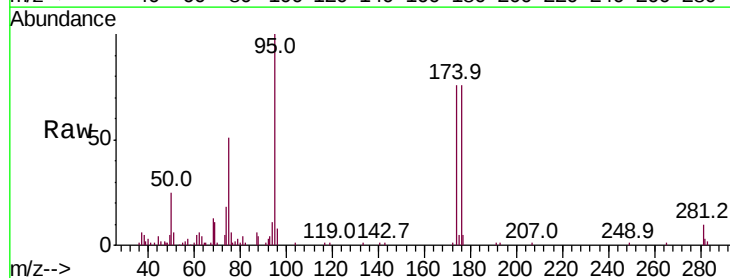
Acq: 20 Aug 2019 15:01

Tgt Ion: 75 Resp: 10089

Ion Ratio Lower Upper

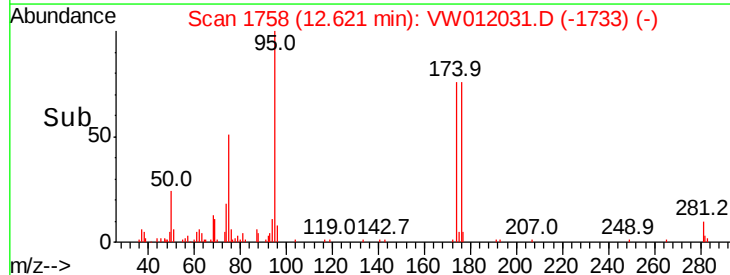
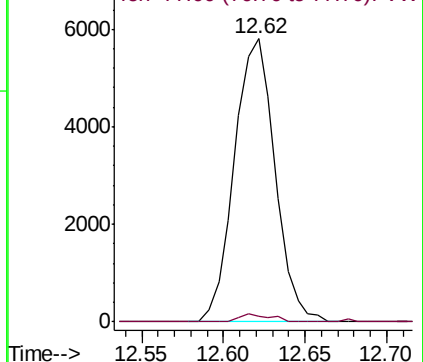
75 100

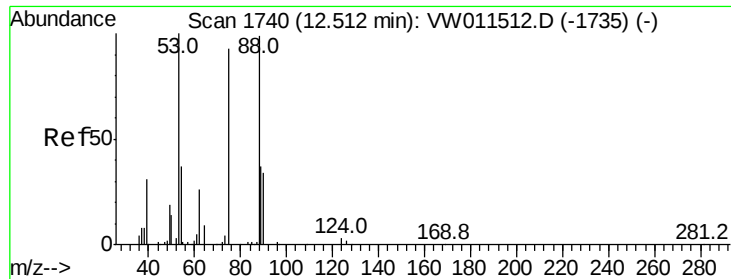
77 2.0 0.0 0.0#



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: 169.296 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

Instrument :

MSVOA_W

ClientSampled :

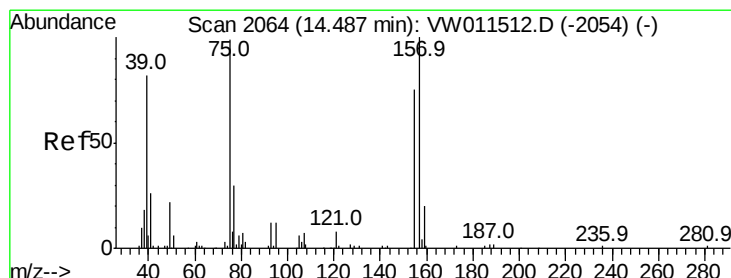
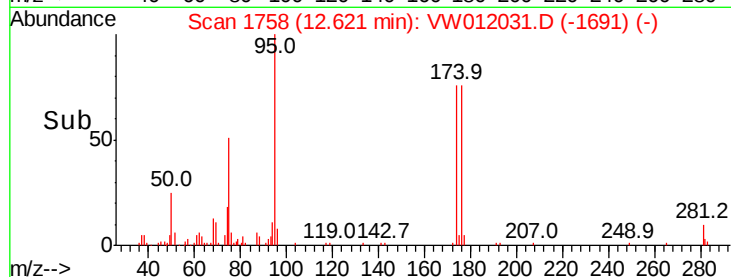
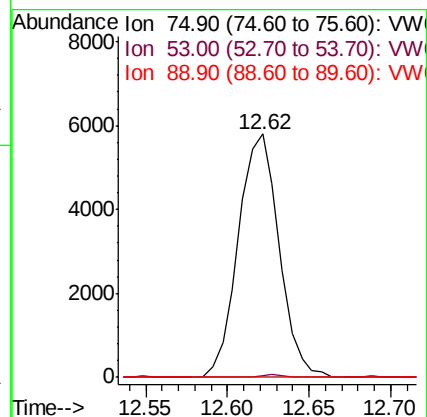
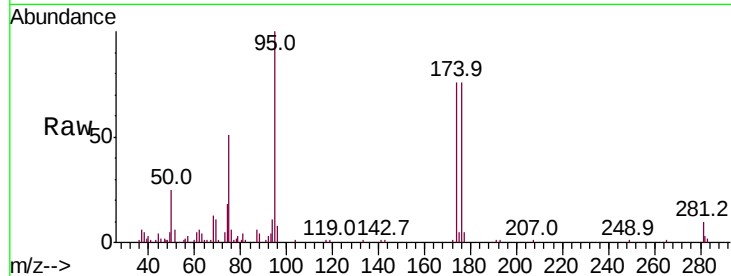
Tot Ion: 75 Resp: 10089

Ion Ratio Lower Upper

75 100

53 0.7 88.0 132.0#

89 0.0 35.3 52.9#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.352 ug/l

RT: 14.69 min Scan# 2097

Delta R.T. 0.20 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

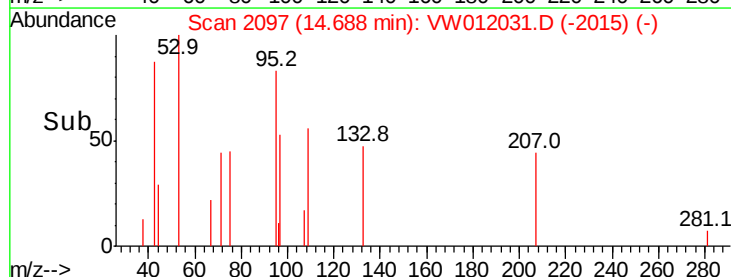
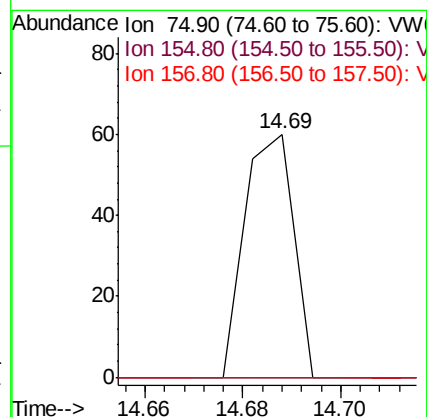
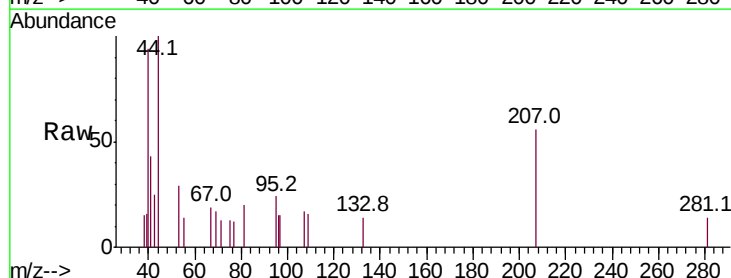
Tgt Ion: 75 Resp: 42

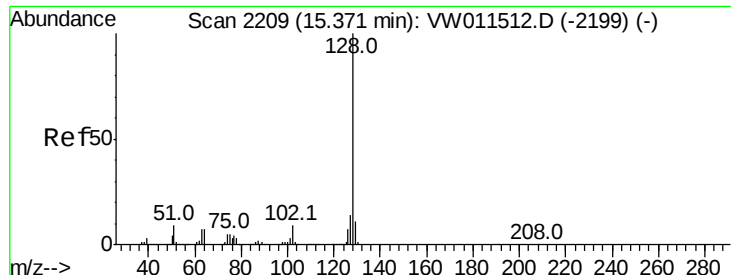
Ion Ratio Lower Upper

75 100

155 0.0 38.2 114.6#

157 0.0 48.9 146.7#





#95

Naphthalene

Concen: 2.227 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW012031.D

Acq: 20 Aug 2019 15:01

Instrument :

MSVOA_W

ClientSampleId :

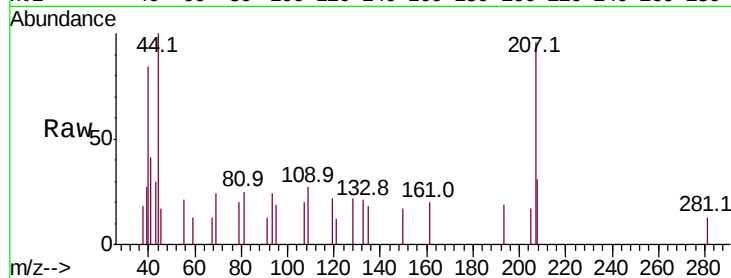
Tot Ion:128 Resp: 86

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#



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

