

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022619\
 Data File : VW008843.D
 Acq On : 26 Feb 2019 20:51
 Operator : SY/VA
 Sample : K1594-39
 Misc : 5.54G/5ML/MSVOA W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-9(4-5)

Quant Time: Feb 27 06:02:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 22 00:38:32 2019
 Response via : Initial Calibration

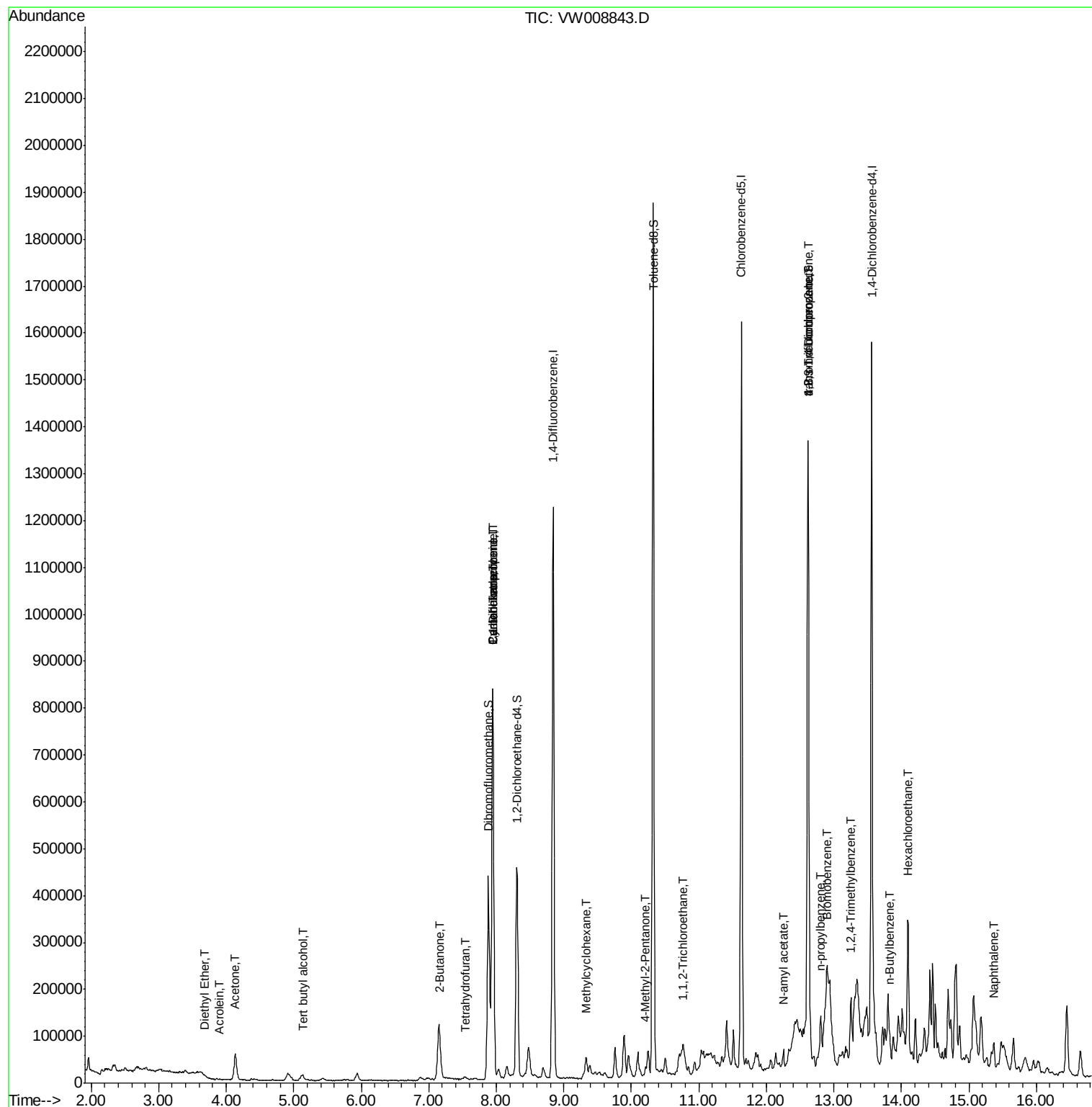
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	632222	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	996151	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	861229	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	378409	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	346771	58.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.96%	
35) Dibromofluoromethane	7.88	113	298385	49.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.78%	
50) Toluene-d8	10.32	98	1188436	51.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.62	95	414285	45.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.66%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	4433	1.357	ug/l	100
11) Tert butyl alcohol	5.13	59	10965	20.771	ug/l #	76
13) Acrolein	3.90	56	599	20.771	ug/l #	65
16) Acetone	4.13	43	97952	71.266	ug/l	99
20) Methylene Chloride	4.92	84	10181	Below Cal		85
25) 2-Butanone	7.17	43	22882	11.908	ug/l	100
29) Tetrahydrofuran	7.54	42	3043	2.485	ug/l #	77
31) Cyclohexane	7.95	56	17906	1.602	ug/l #	26
36) 1,1-Dichloropropene	7.95	75	48925	5.045	ug/l #	50
38) Carbon Tetrachloride	7.95	117	62901	6.151	ug/l #	16
39) Methylcyclohexane	9.33	83	12101	1.000	ug/l #	86
51) 4-Methyl-2-Pentanone	10.21	43	9204	2.014	ug/l	96
55) 1,1,2-Trichloroethane	10.76	97	7569	1.534	ug/l #	37
74) N-amyl acetate	12.25	43	10162	1.555	ug/l #	71
76) 1,2,3-Trichloropropane	12.62	75	214978	68.809	ug/l #	100
77) Bromobenzene	12.90	156	236653	38.604	ug/l #	1
78) n-propylbenzene	12.80	91	72014	2.269	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	214978	167.280	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.26	105	71867	3.080	ug/l	97
89) n-Butylbenzene	13.83	91	41435	1.721	ug/l #	75
90) Hexachloroethane	14.10	117	14901	3.542	ug/l #	9
95) Naphthalene	15.37	128	38170	2.746	ug/l	97

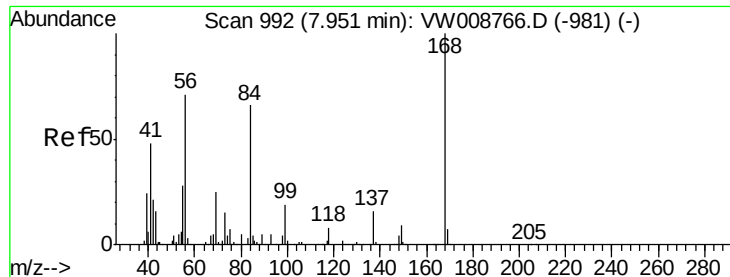
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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B-9(4-5)

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QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

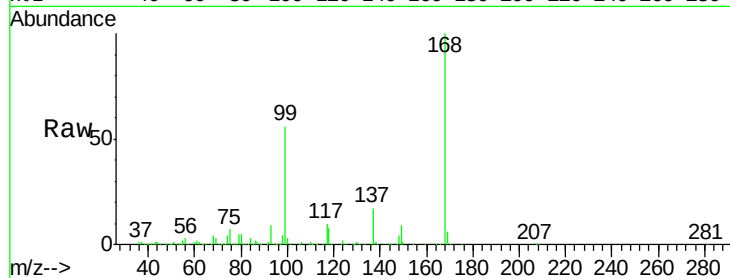
B-9(4-5)

Tot Ion:168 Resp: 632222

Ion Ratio Lower Upper

168 100

99 56.3 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

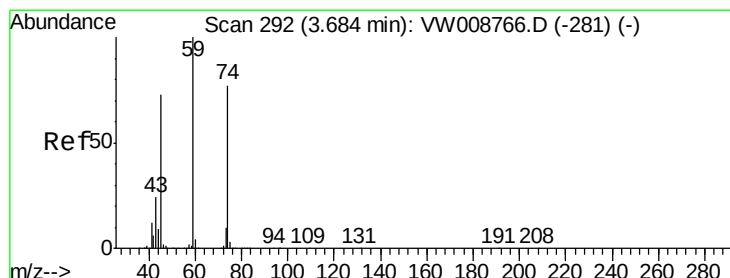
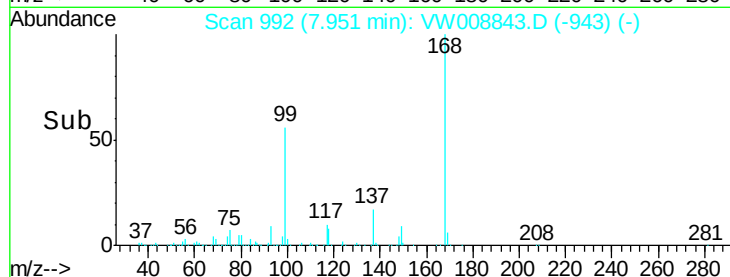
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 1.357 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.00 min

Lab File: VW008843.D

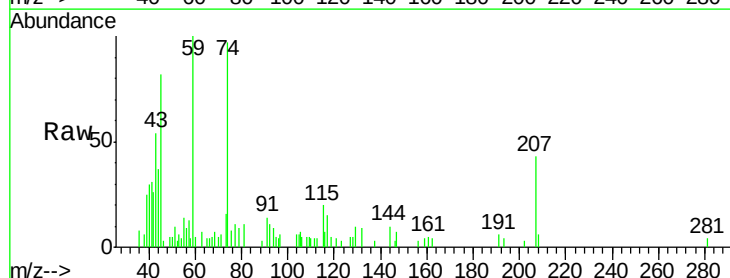
Acq: 26 Feb 2019 20:51

Tgt Ion: 74 Resp: 4433

Ion Ratio Lower Upper

74 100

45 100.8 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

2000

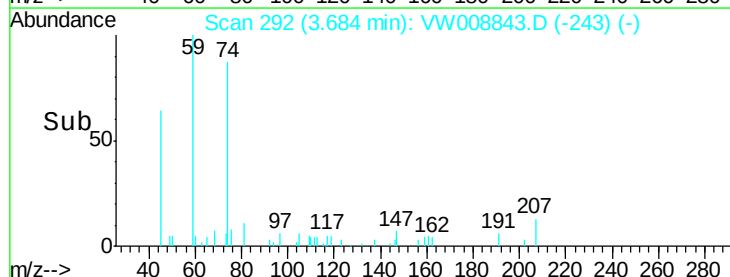
1500

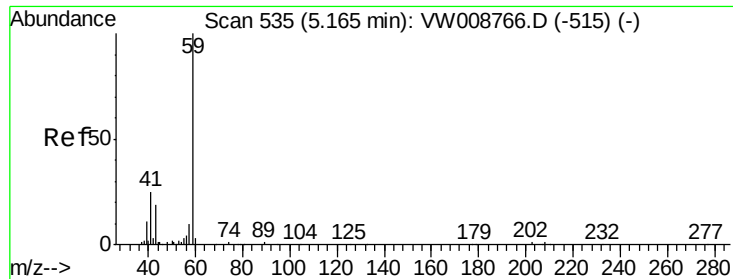
1000

500

0

Time-->



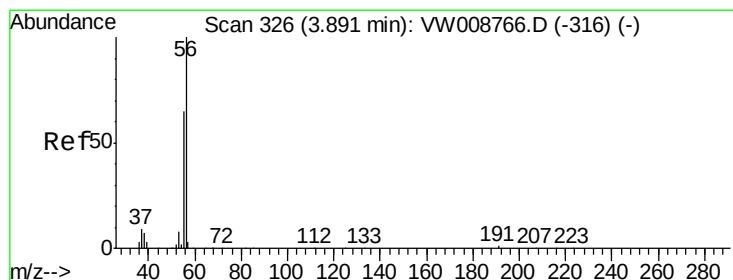
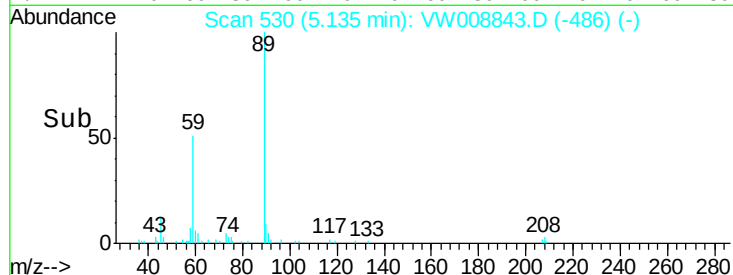
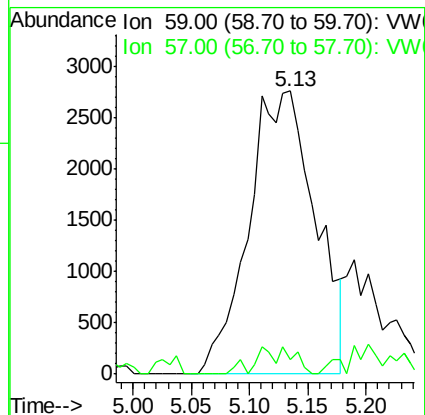
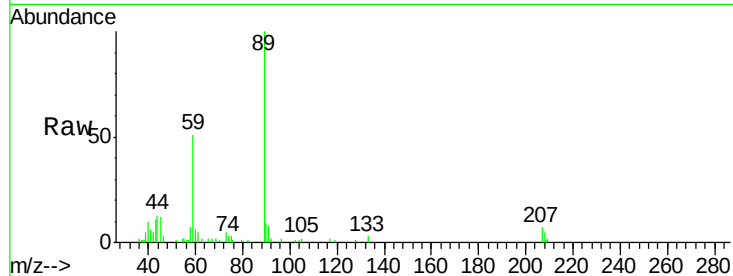


#11

Tert butyl alcohol
 Concen: 20.771 ug/l
 RT: 5.13 min Scan# 530
 Delta R.T. -0.03 min
 Lab File: VW008843.D
 Acq: 26 Feb 2019 20:51

Instrument :
 MSVOA_W
 ClientSampled :
 B-9(4-5)

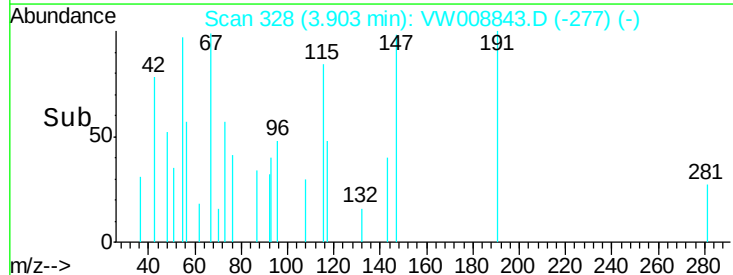
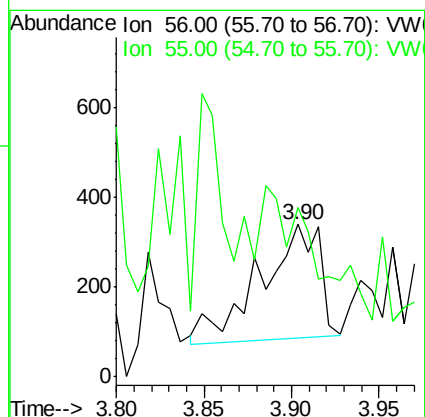
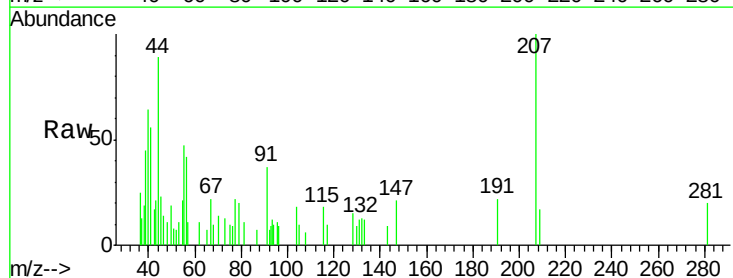
Tot Ion: 59 Resp: 10965
 Ion Ratio Lower Upper
 59 100
 57 2.3 9.3 13.9#

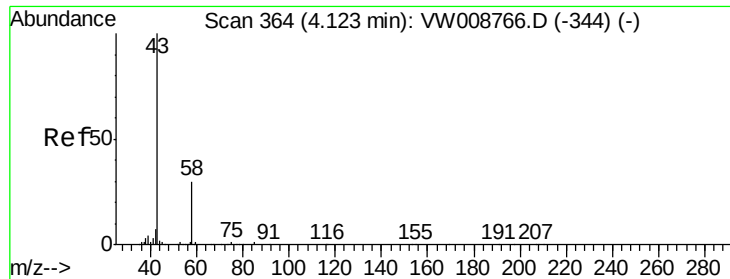


#13

Acrolein
 Concen: 20.771 ug/l
 RT: 3.90 min Scan# 328
 Delta R.T. 0.01 min
 Lab File: VW008843.D
 Acq: 26 Feb 2019 20:51

Tgt Ion: 56 Resp: 599
 Ion Ratio Lower Upper
 56 100
 55 100.3 56.9 85.3#





#16

Acetone

Concen: 71.266 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

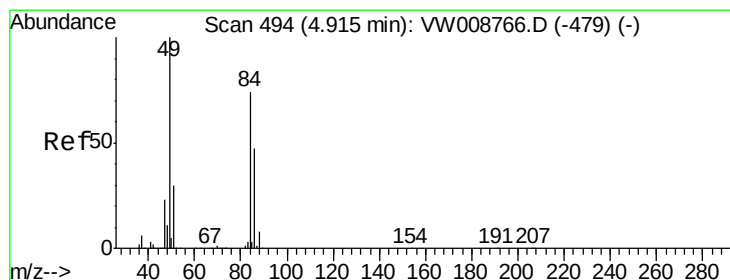
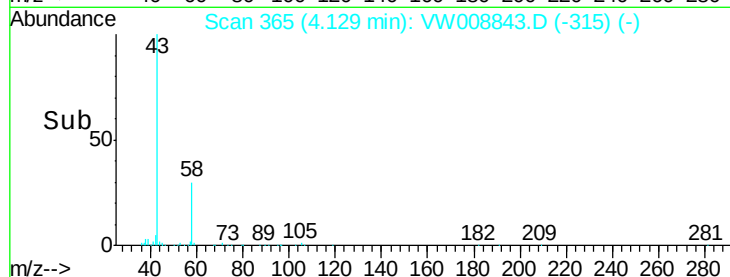
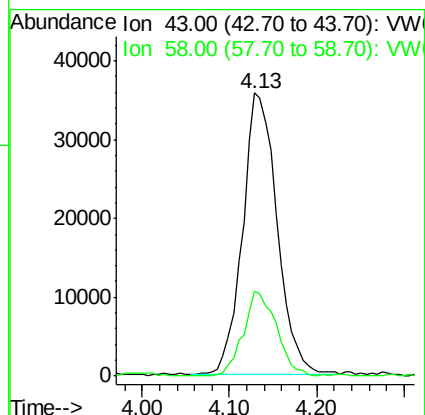
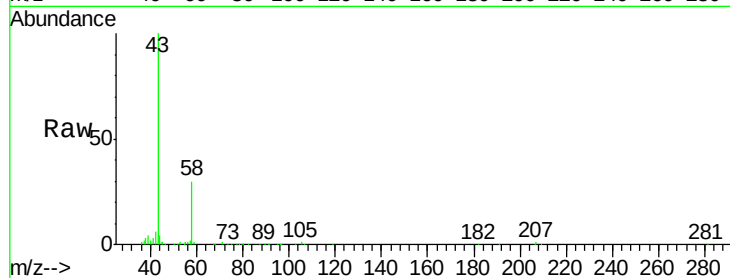
B-9(4-5)

Tot Ion: 43 Resp: 97952

Ion Ratio Lower Upper

43 100

58 30.1 23.8 35.6



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Tgt Ion: 84 Resp: 10181

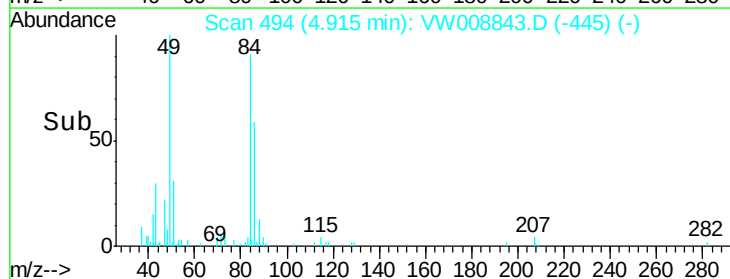
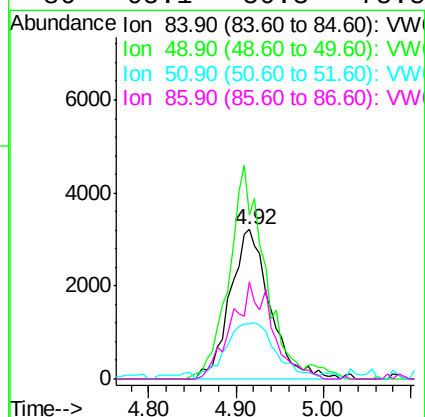
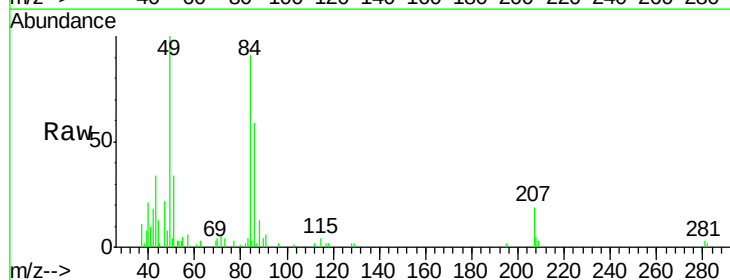
Ion Ratio Lower Upper

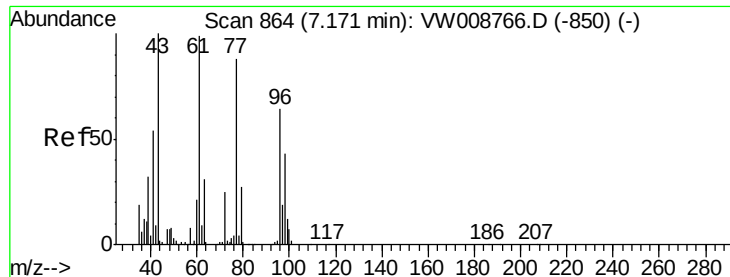
84 100

49 108.2 108.2 162.2

51 34.8 32.7 49.1

86 65.1 50.3 75.5





#25

2-Butanone

Concen: 11.908 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

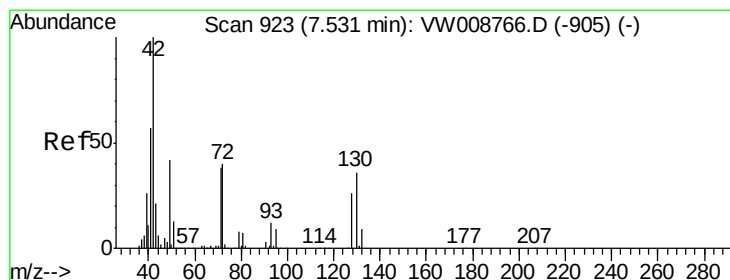
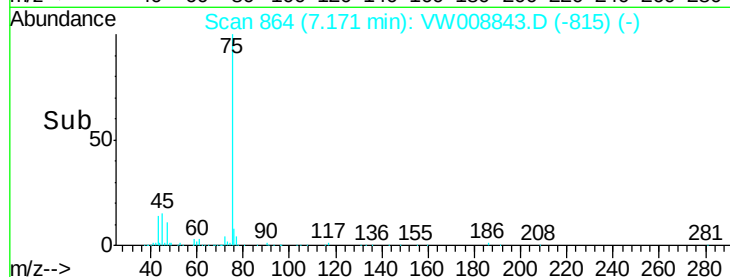
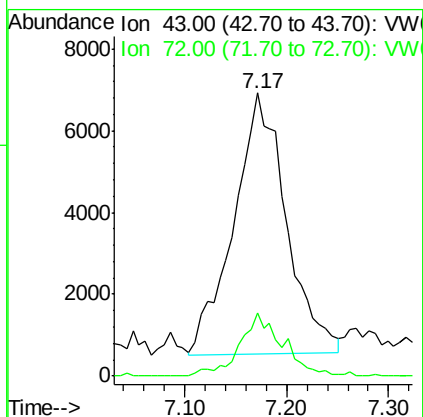
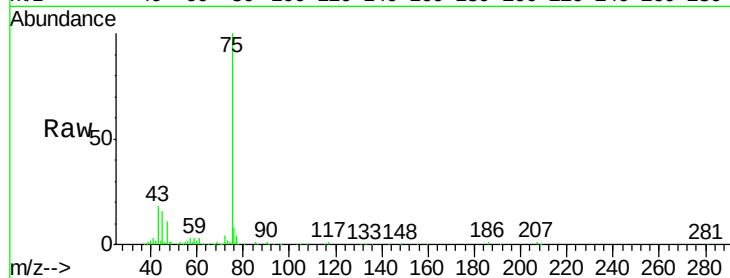
B-9(4-5)

Tot Ion: 43 Resp: 22882

Ion Ratio Lower Upper

43 100

72 24.4 19.7 29.5



#29

Tetrahydrofuran

Concen: 2.485 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

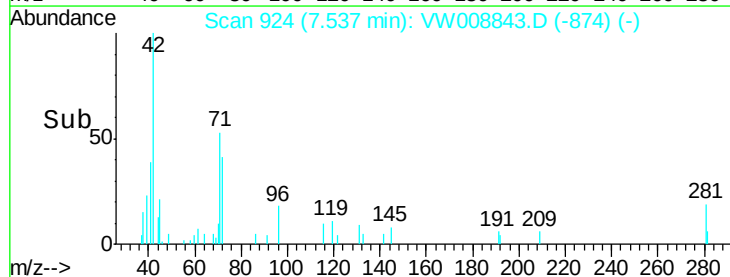
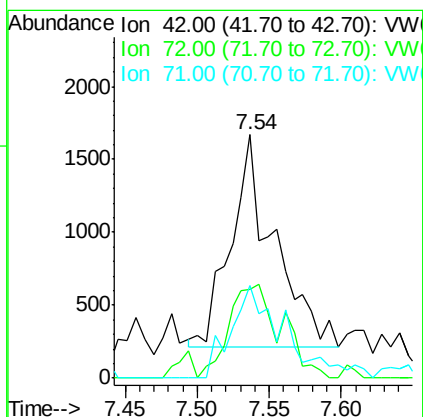
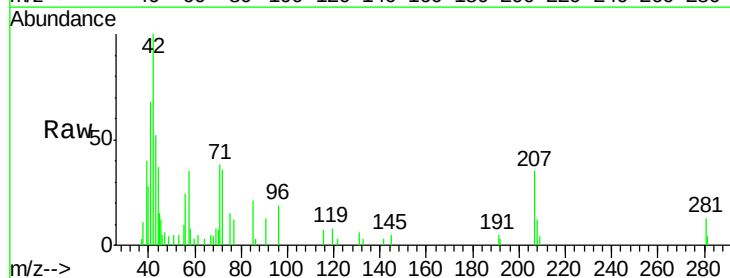
Tgt Ion: 42 Resp: 3043

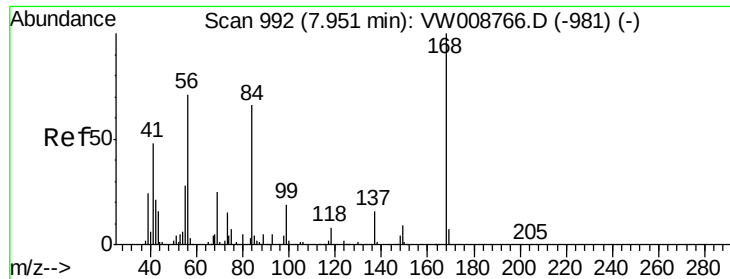
Ion Ratio Lower Upper

42 100

72 53.3 32.7 49.1#

71 54.6 31.3 46.9#

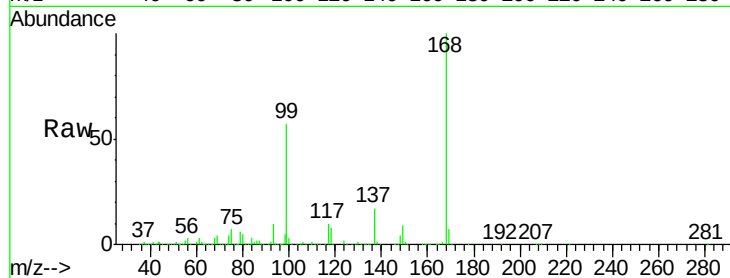




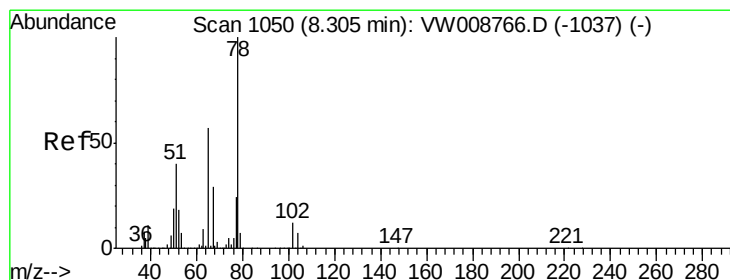
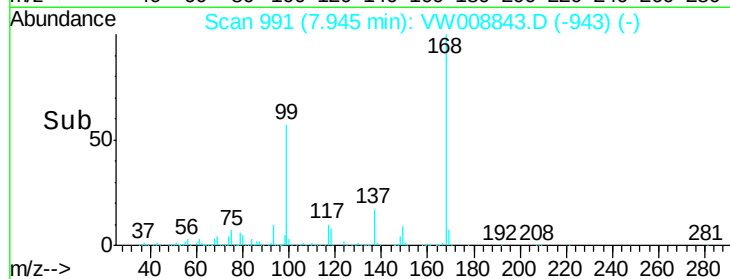
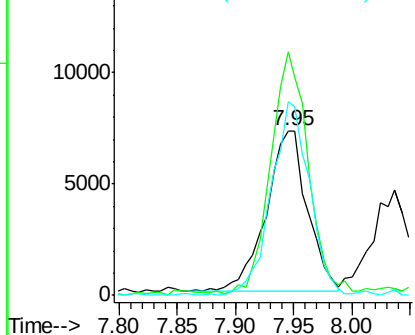
#31
Cyclohexane
Concen: 1.602 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008843.D
Acq: 26 Feb 2019 20:51

Instrument :
MSVOA_W
ClientSampleId :
B-9(4-5)

Tot Ion: 56 Resp: 17906
Ion Ratio Lower Upper
56 100
69 148.4 28.2 42.4#
84 119.9 74.1 111.1#

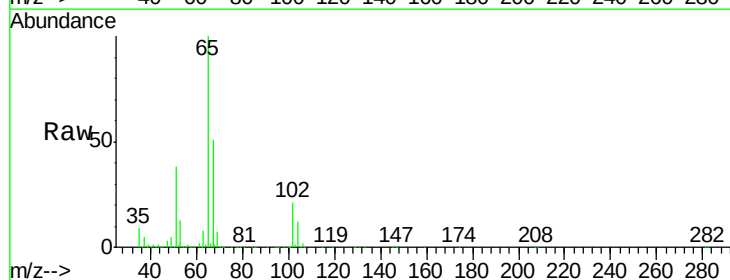


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

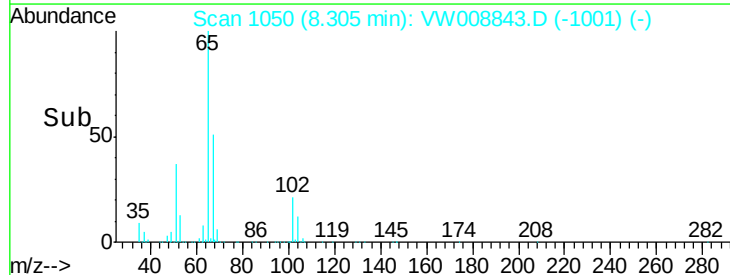
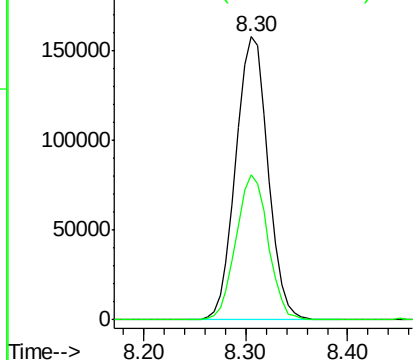


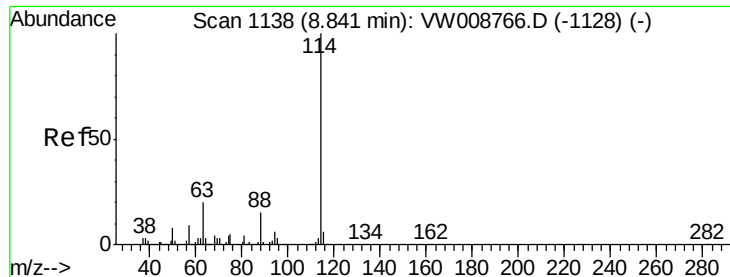
#33
1,2-Dichloroethane-d4
Concen: 58.481 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW008843.D
Acq: 26 Feb 2019 20:51

Tgt Ion: 65 Resp: 346771
Ion Ratio Lower Upper
65 100
67 51.0 0.0 101.4



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

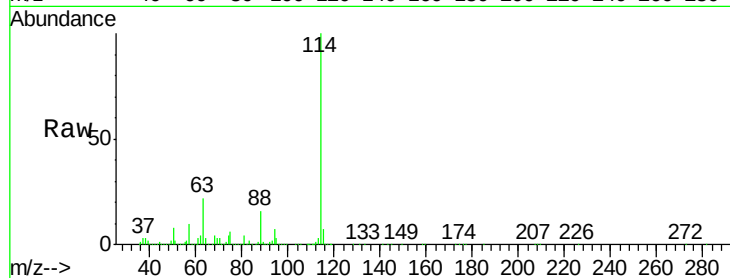




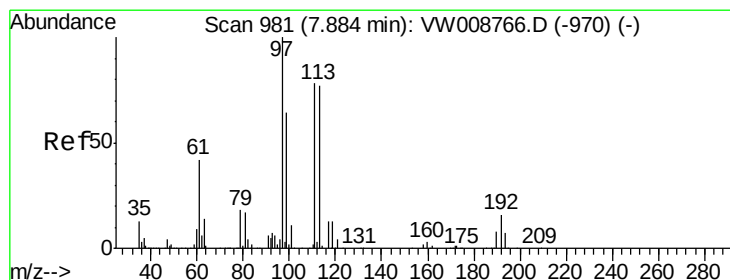
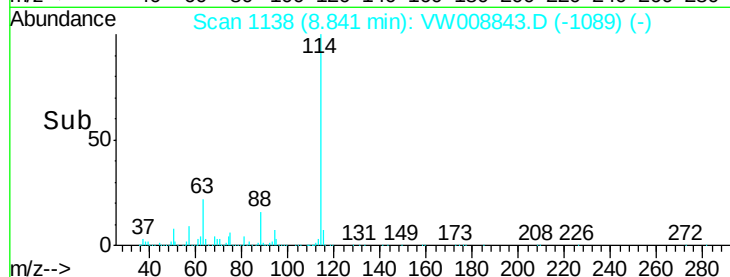
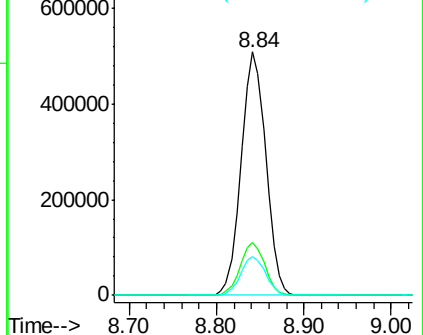
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VW008843.D
Acq: 26 Feb 2019 20:51

Instrument :
MSVOA_W
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B-9(4-5)

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	40.8
88	15.9	0.0	30.4

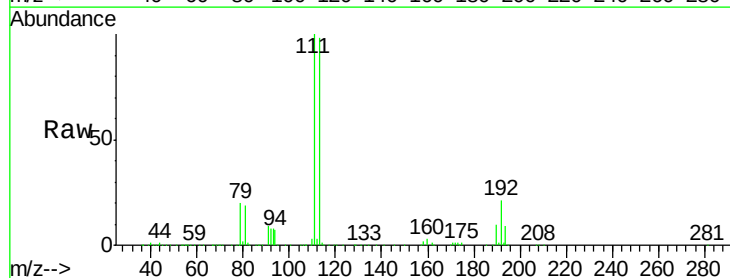


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

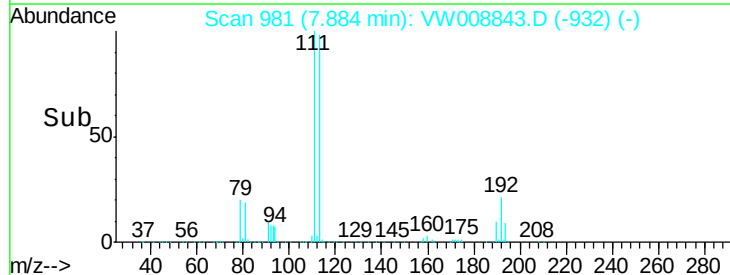
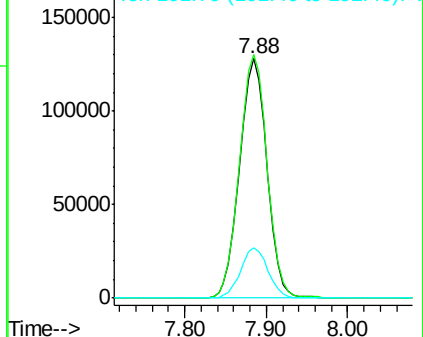


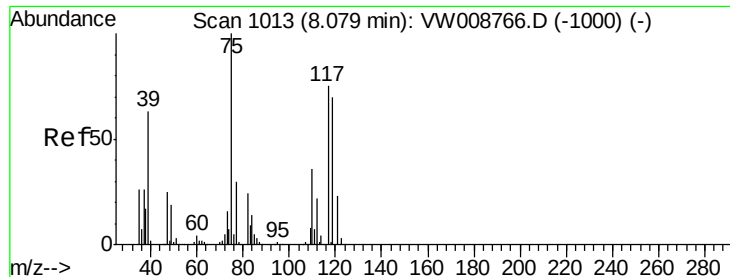
#35
Dibromofluoromethane
Concen: 49.889 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW008843.D
Acq: 26 Feb 2019 20:51

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.9	122.9
192	20.9	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: 5.045 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Instrument :

MSVOA_W

ClientSampled :

B-9(4-5)

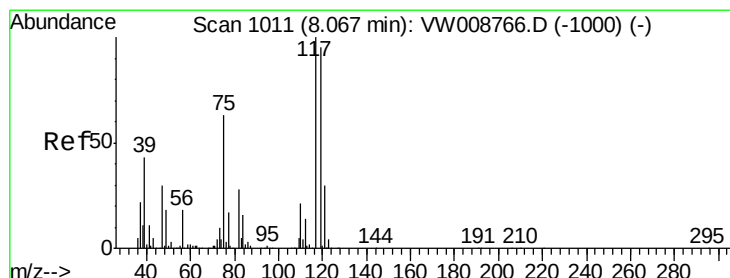
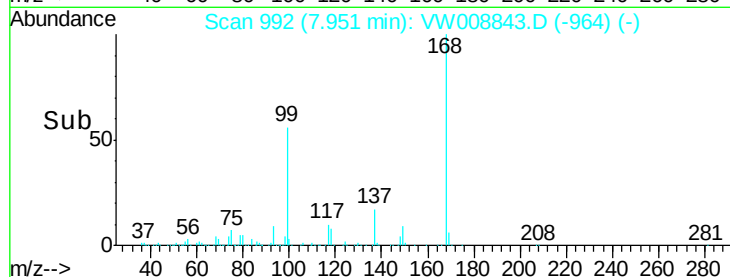
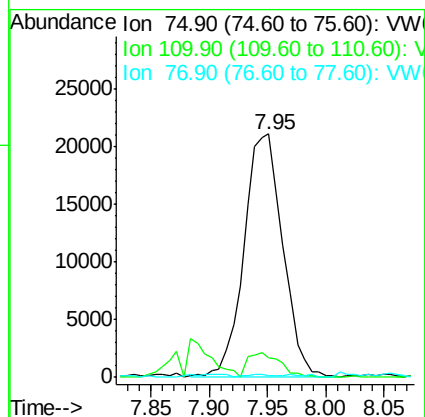
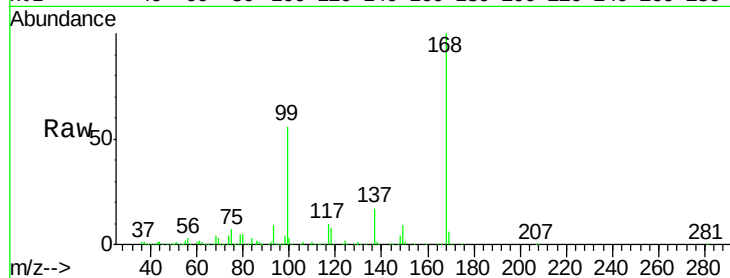
Tot Ion: 75 Resp: 48925

Ion Ratio Lower Upper

75 100

110 8.6 17.5 52.6#

77 0.4 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.151 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

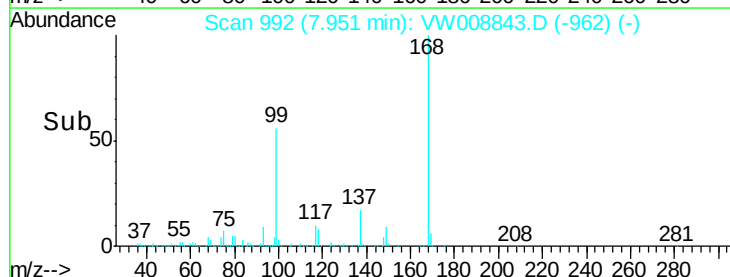
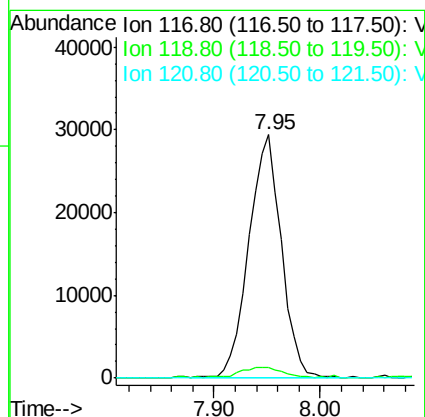
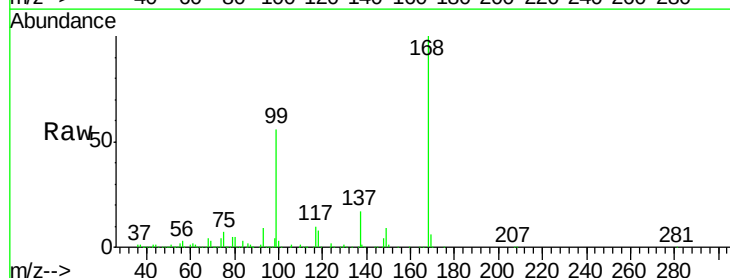
Tgt Ion: 117 Resp: 62901

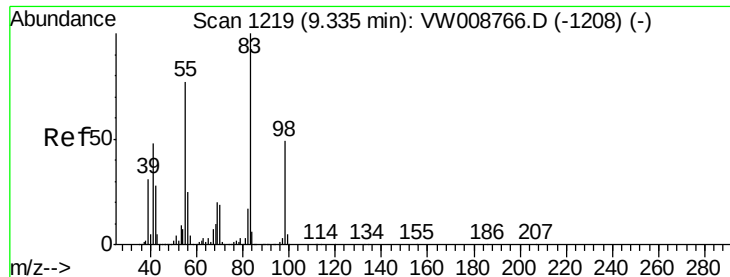
Ion Ratio Lower Upper

117 100

119 4.1 76.1 114.1#

121 0.0 24.0 36.0#

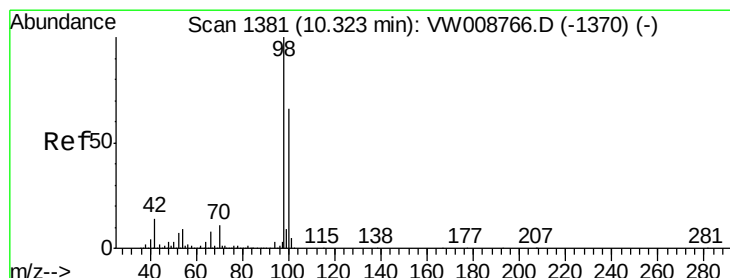
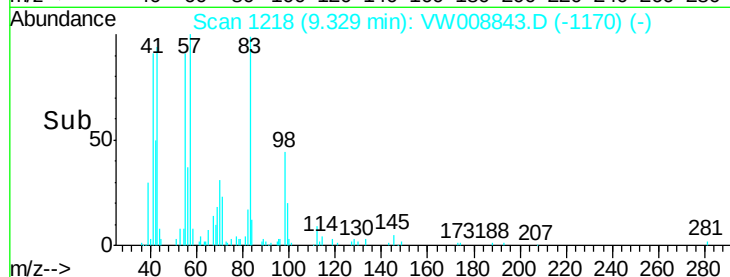
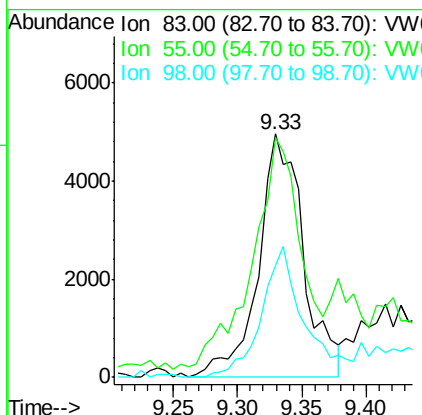
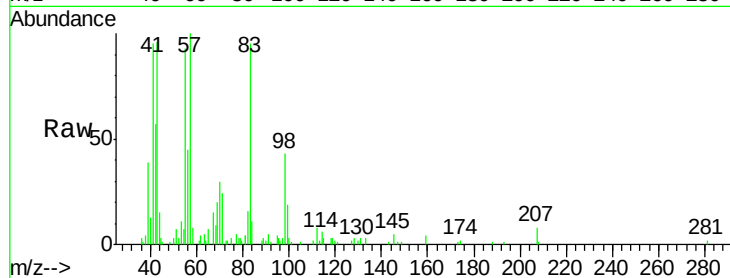




#39
Methylvlcyclohexane
Concen: 1.000 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW008843.D
Acq: 26 Feb 2019 20:51

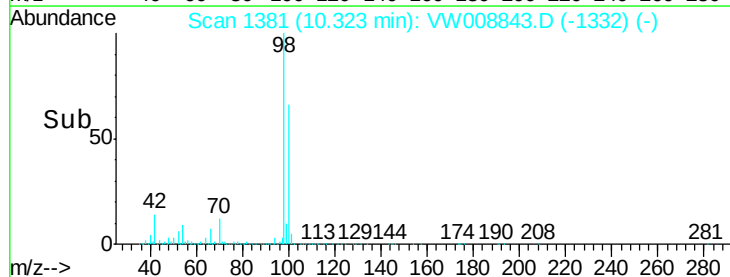
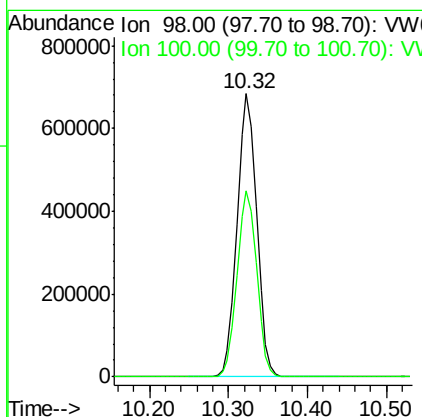
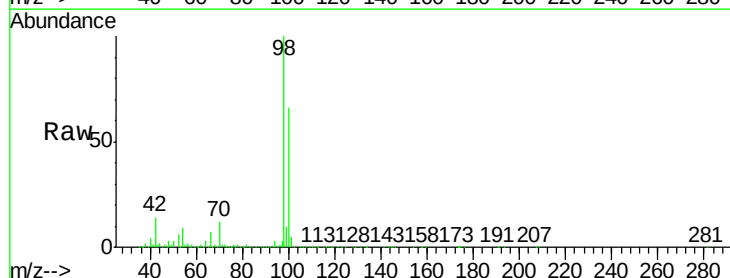
Instrument :
MSVOA_W
ClientSampleId :
B-9(4-5)

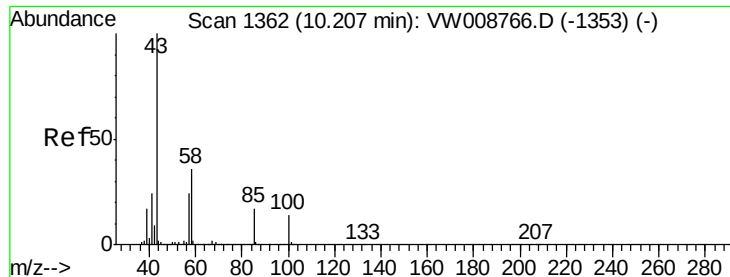
Tot Ion: 83 Resp: 12101
Ion Ratio Lower Upper
83 100
55 93.6 61.2 91.8#
98 45.7 39.4 59.2



#50
Toluene-d8
Concen: 51.473 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW008843.D
Acq: 26 Feb 2019 20:51

Tgt Ion: 98 Resp: 1188436
Ion Ratio Lower Upper
98 100
100 65.9 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 2.014 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Instrument :

MSVOA_W

ClientSampled :

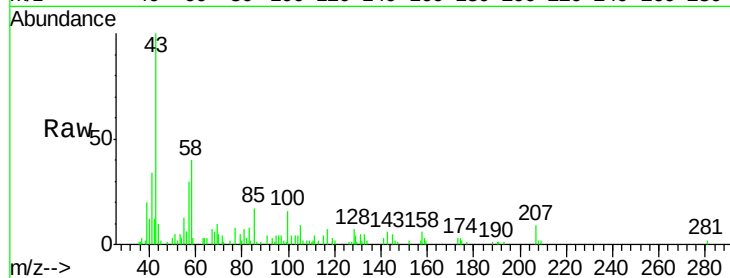
B-9(4-5)

Tot Ion: 43 Resp: 9204

Ion Ratio Lower Upper

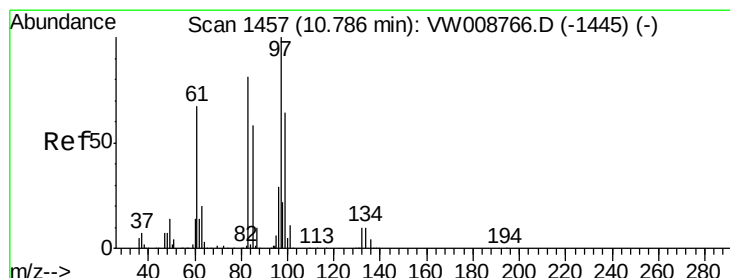
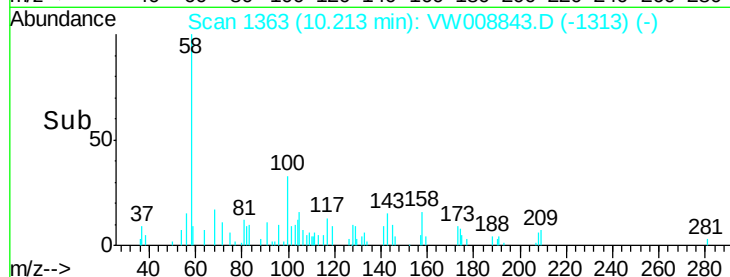
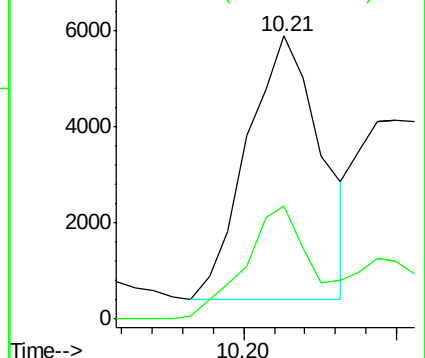
43 100

58 38.8 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#55

1,1,2-Trichloroethane

Concen: 1.534 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Tgt Ion: 97 Resp: 7569

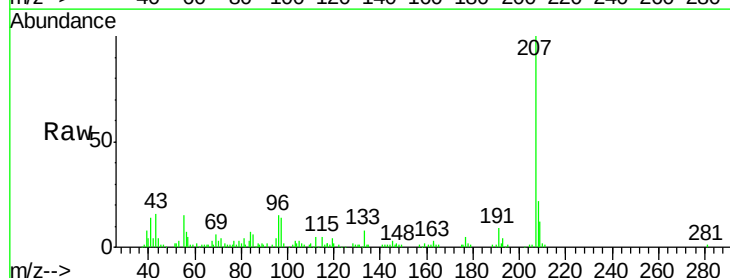
Ion Ratio Lower Upper

97 100

83 11.8 65.0 97.6#

85 42.9 46.0 69.0#

99 0.0 51.1 76.7#

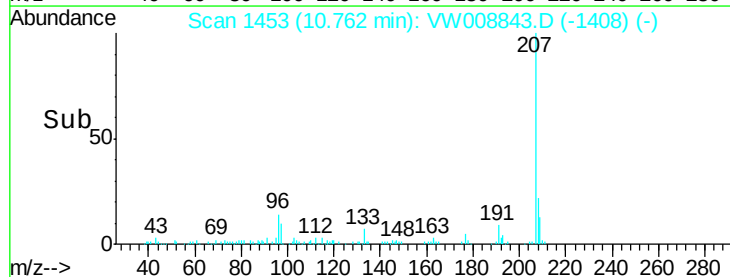
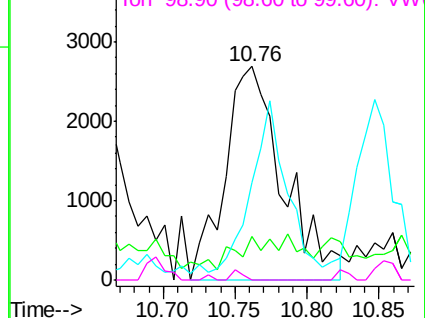


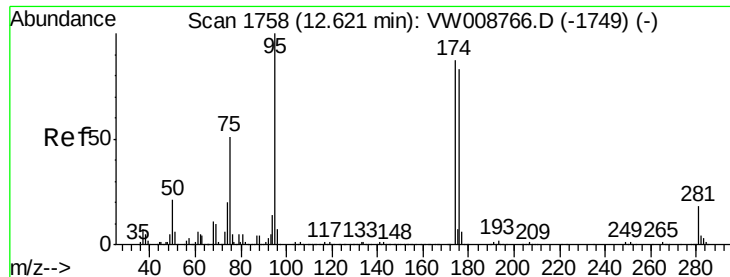
Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW





#62

4-Bromofluorobenzene

Concen: 45.827 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

B-9(4-5)

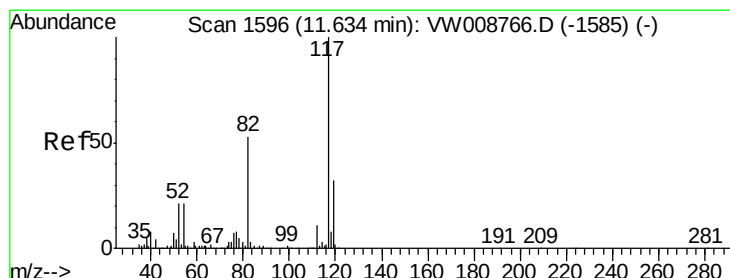
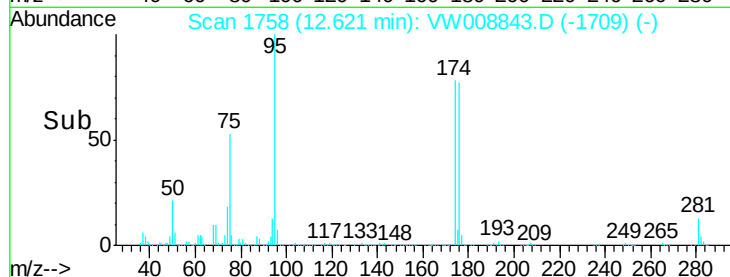
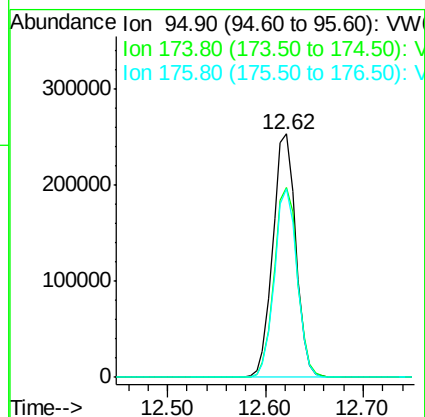
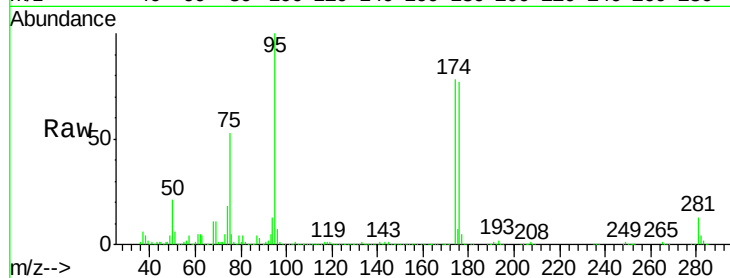
Tot Ion: 95 Resp: 414285

Ion Ratio Lower Upper

95 100

174 79.0 0.0 169.2

176 76.3 0.0 163.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

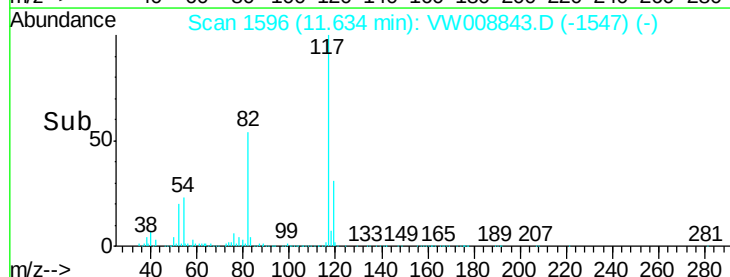
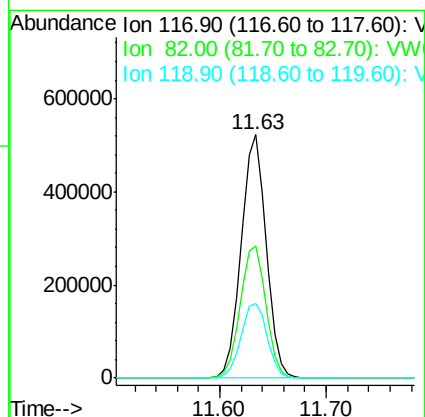
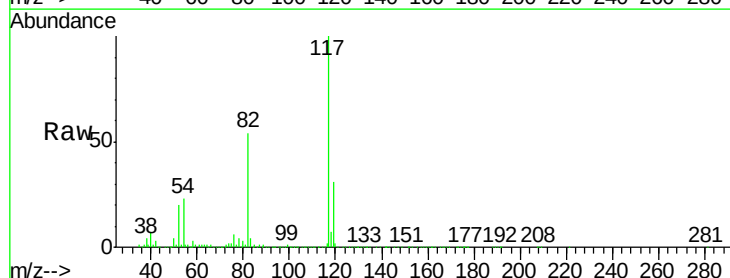
Tgt Ion: 117 Resp: 861229

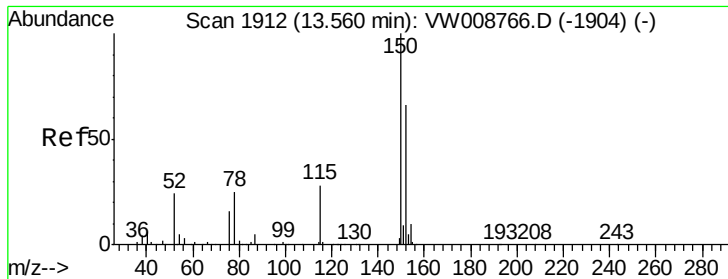
Ion Ratio Lower Upper

117 100

82 54.4 42.2 63.4

119 30.6 25.9 38.9

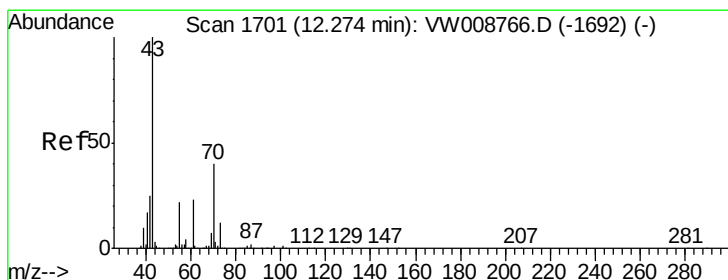
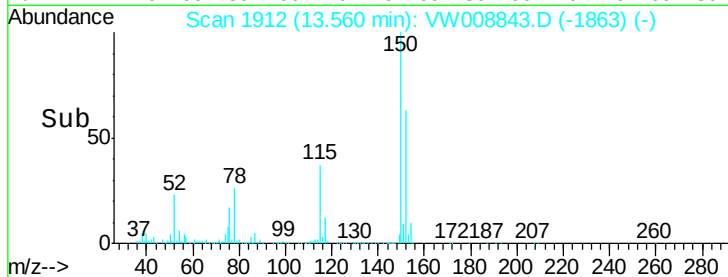
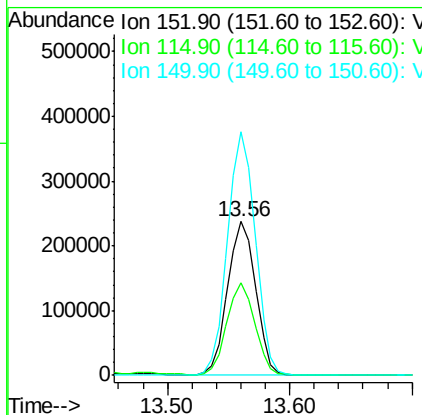
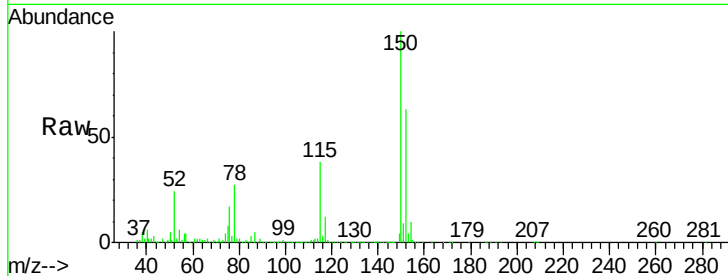




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. -0.00 min
 Lab File: VW008843.D
 Acq: 26 Feb 2019 20:51

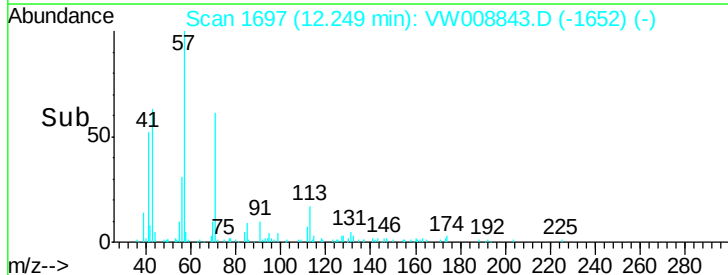
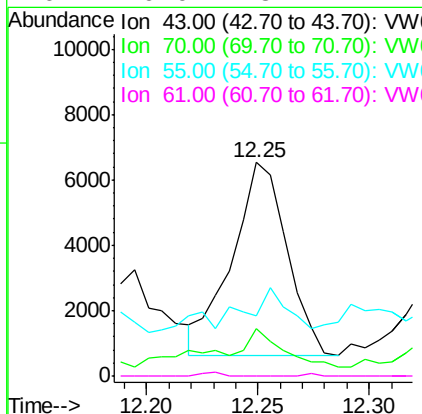
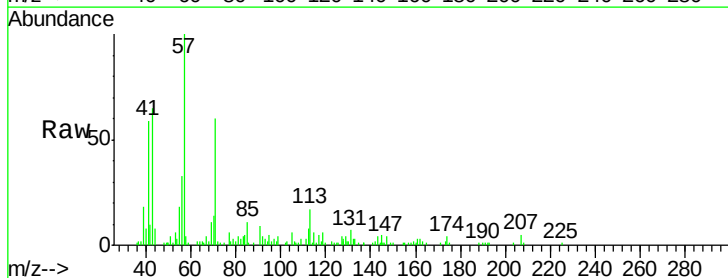
Instrument :
 MSVOA_W
 ClientSampleId :
 B-9(4-5)

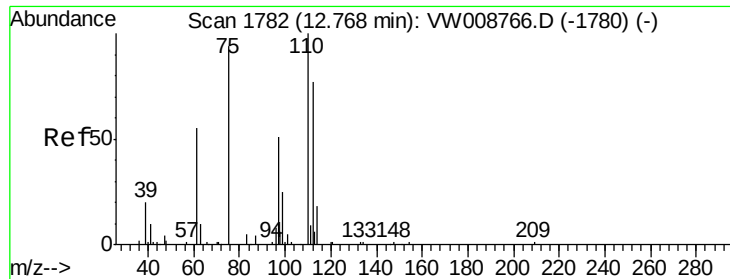
Tot Ion	Ratio	Lower	Upper
152	100		
115	59.6	28.6	85.8
150	156.1	0.0	348.0



#74
 N-ethyl acetate
 Concen: 1.555 ug/l
 RT: 12.25 min Scan# 1697
 Delta R.T. -0.02 min
 Lab File: VW008843.D
 Acq: 26 Feb 2019 20:51

Tgt Ion	Ratio	Lower	Upper
43	100		
70	23.1	31.0	46.6#
55	14.4	18.7	28.1#
61	0.0	18.1	27.1#





#76

1,2,3-Trichloropropane

Concen: 68.809 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

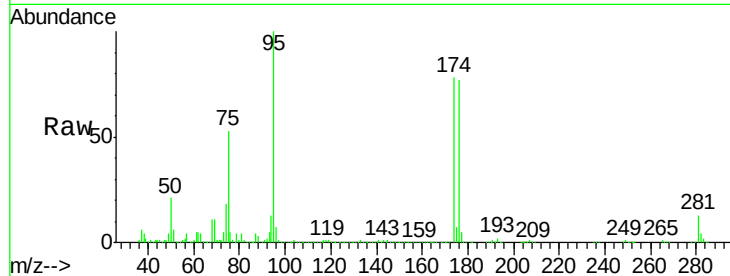
B-9(4-5)

Tot Ion: 75 Resp: 214978

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

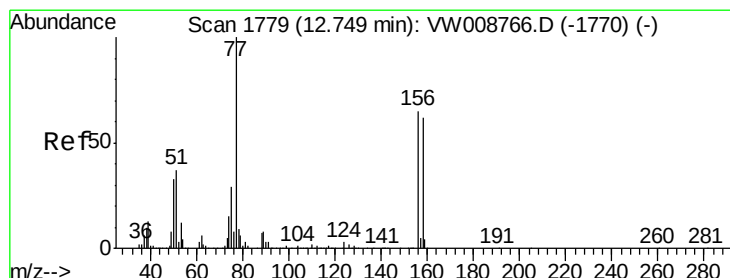
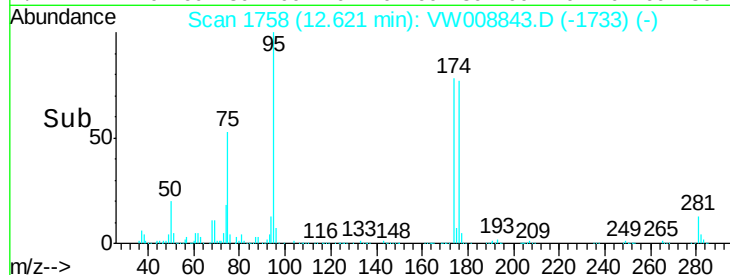
150000

100000

50000

0

Time-->



#77

Bromobenzene

Concen: 38.604 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.15 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

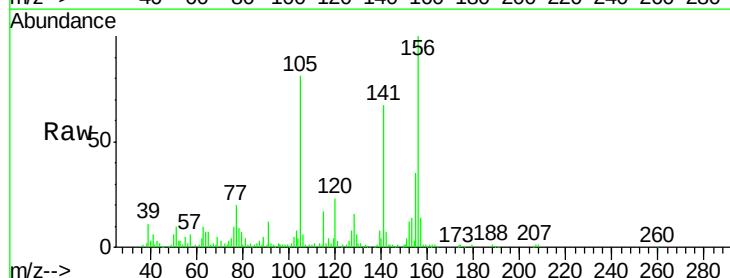
Tgt Ion: 156 Resp: 236653

Ion Ratio Lower Upper

156 100

77 6.6 89.1 267.4#

158 0.5 49.2 147.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V

12.90

40000

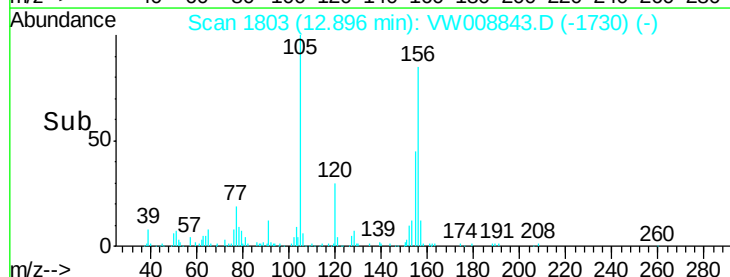
30000

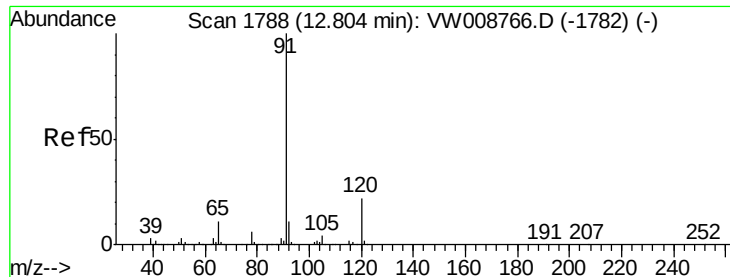
20000

10000

0

Time-->





#78

n-propylbenzene

Concen: 2.269 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Instrument :

MSVOA_W

ClientSampled :

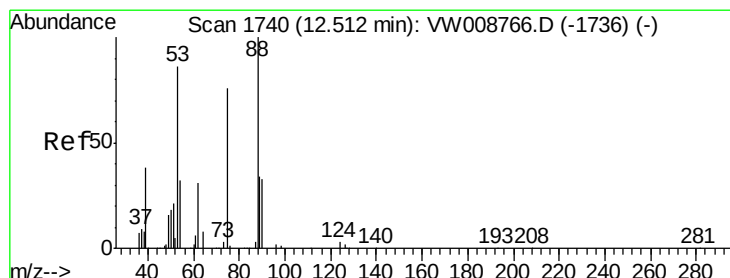
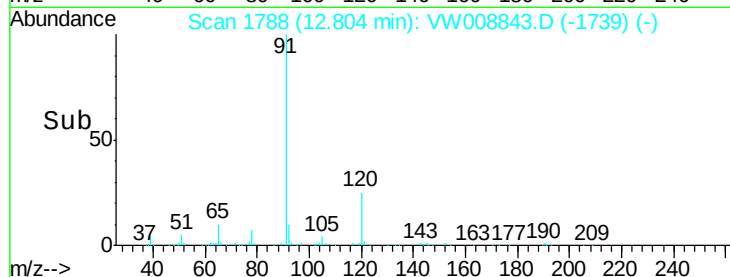
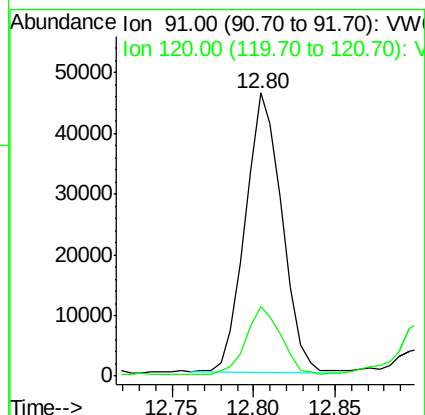
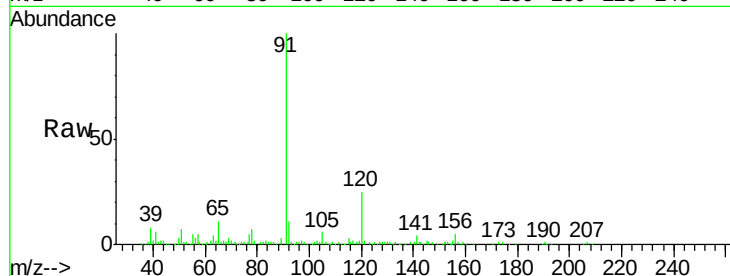
B-9(4-5)

Tot Ion: 91 Resp: 72014

Ion Ratio Lower Upper

91 100

120 23.8 11.5 34.4



#81

trans-1,4-Dichloro-2-butene

Concen: 167.280 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

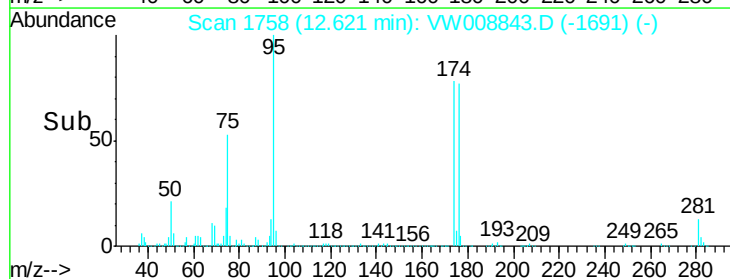
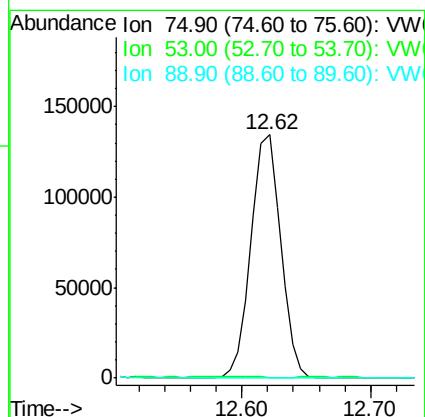
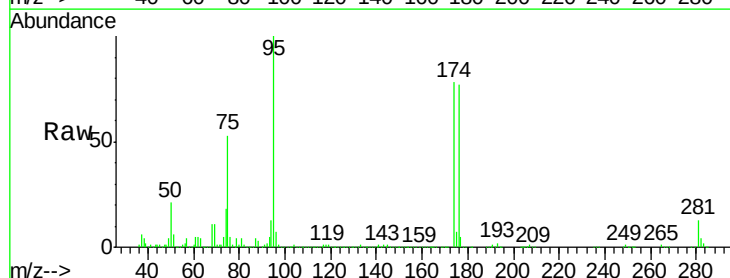
Tgt Ion: 75 Resp: 214978

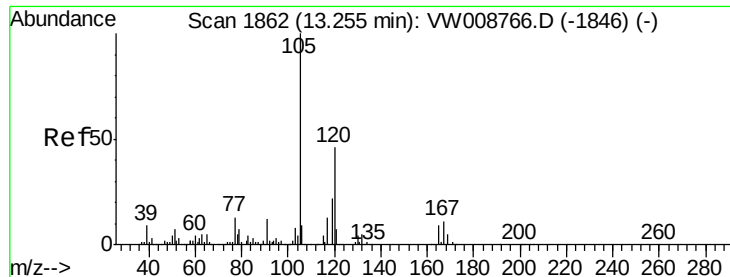
Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.0 39.5 59.3#

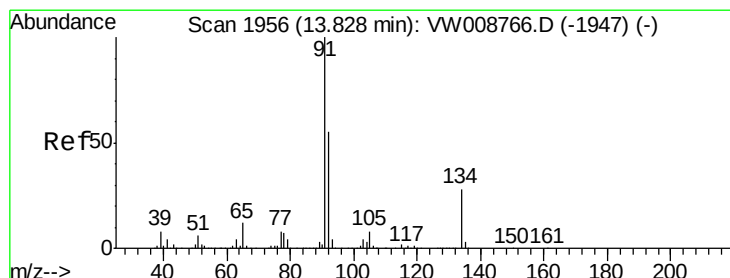
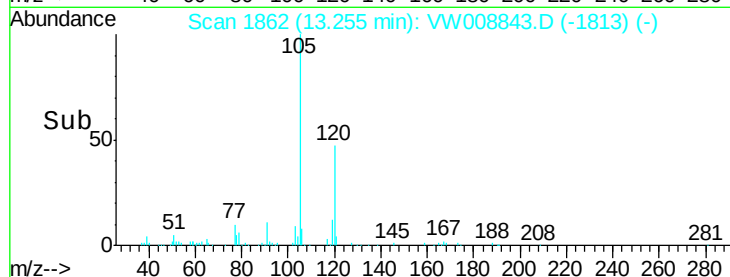
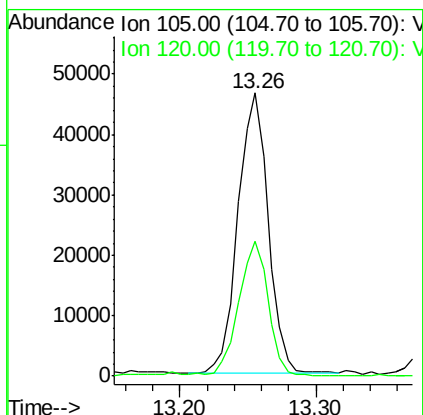
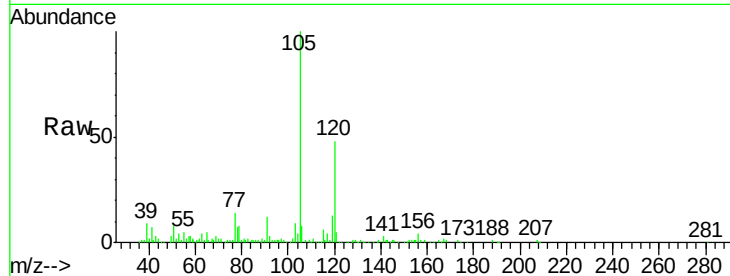




#84
 1,2,4-Trimethylbenzene
 Concen: 3.080 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW008843.D
 Acq: 26 Feb 2019 20:51

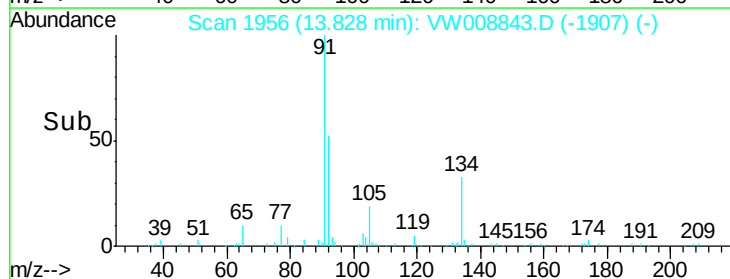
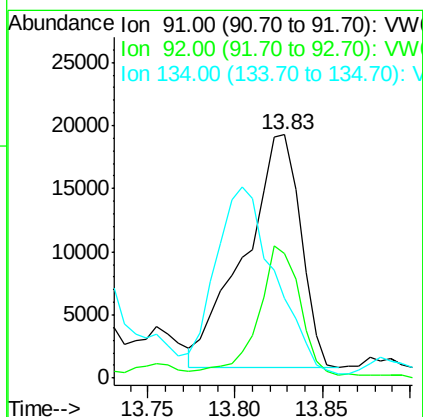
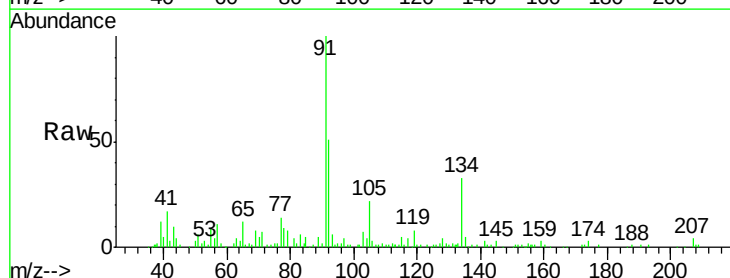
Instrument :
 MSVOA_W
 ClientSampled :
 B-9(4-5)

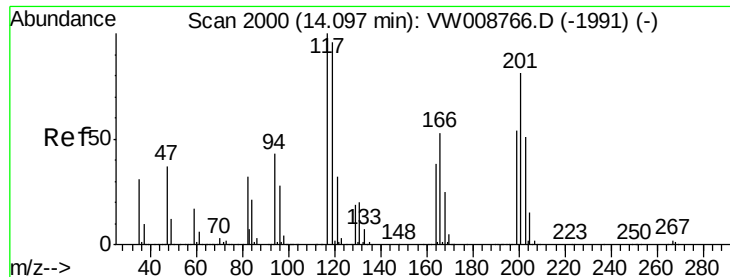
Tot Ion:105 Resp: 71867
 Ion Ratio Lower Upper
 105 100
 120 47.5 22.8 68.4



#89
 n-Butylbenzene
 Concen: 1.721 ug/l
 RT: 13.83 min Scan# 1956
 Delta R.T. -0.00 min
 Lab File: VW008843.D
 Acq: 26 Feb 2019 20:51

Tgt Ion: 91 Resp: 41435
 Ion Ratio Lower Upper
 91 100
 92 44.9 26.8 80.4
 134 0.0 13.5 40.4#





#90

Hexachloroethane

Concen: 3.542 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

Instrument :

MSVOA_W

ClientSampleId :

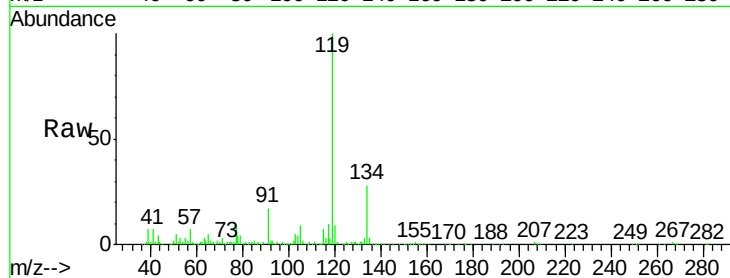
B-9(4-5)

Tot Ion:117 Resp: 14901

Ion Ratio Lower Upper

117 100

201 0.1 40.3 120.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.10

12000

10000

8000

6000

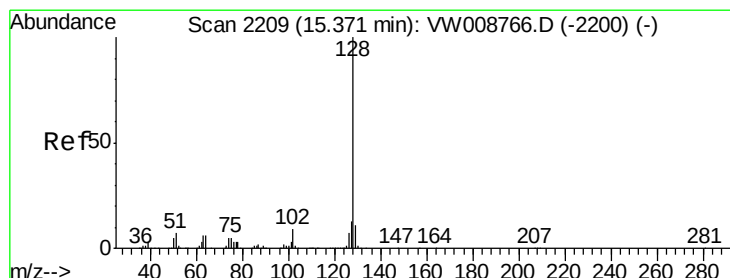
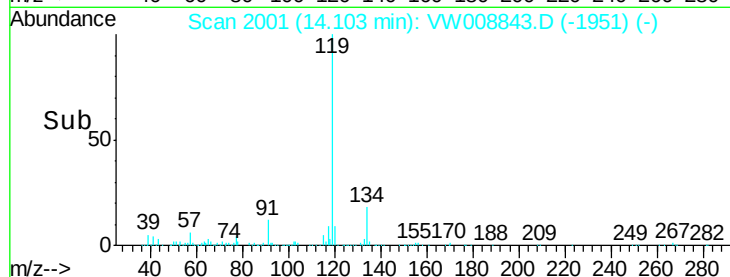
4000

2000

0

Time-->

14.05 14.10 14.15



#95

Naphthalene

Concen: 2.746 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW008843.D

Acq: 26 Feb 2019 20:51

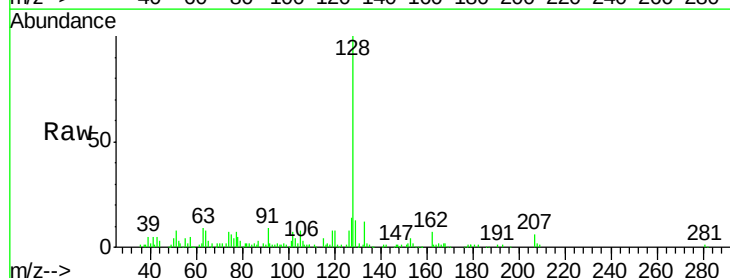
Tgt Ion:128 Resp: 38170

Ion Ratio Lower Upper

128 100

127 14.6 10.8 16.2

129 12.3 8.7 13.1



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

15.37

25000

20000

15000

10000

5000

0

Time-->

15.30 15.35 15.40

