

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW031119\
 Data File : VW009090.D
 Acq On : 11 Mar 2019 16:52
 Operator : SY/VA
 Sample : K1837-11
 Misc : 5.87G/5ML/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MR-MH-06-COMP

Quant Time: Mar 12 08:12:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	280188	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	443524	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	404183	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	186411	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	169674	60.19	ug/l	0.00
Spiked Amount			Recovery	=	120.38%	
35) Dibromofluoromethane	7.88	113	138826	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
50) Toluene-d8	10.32	98	539576	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.62	95	182401	42.25	ug/l	0.00
Spiked Amount			Recovery	=	84.50%	

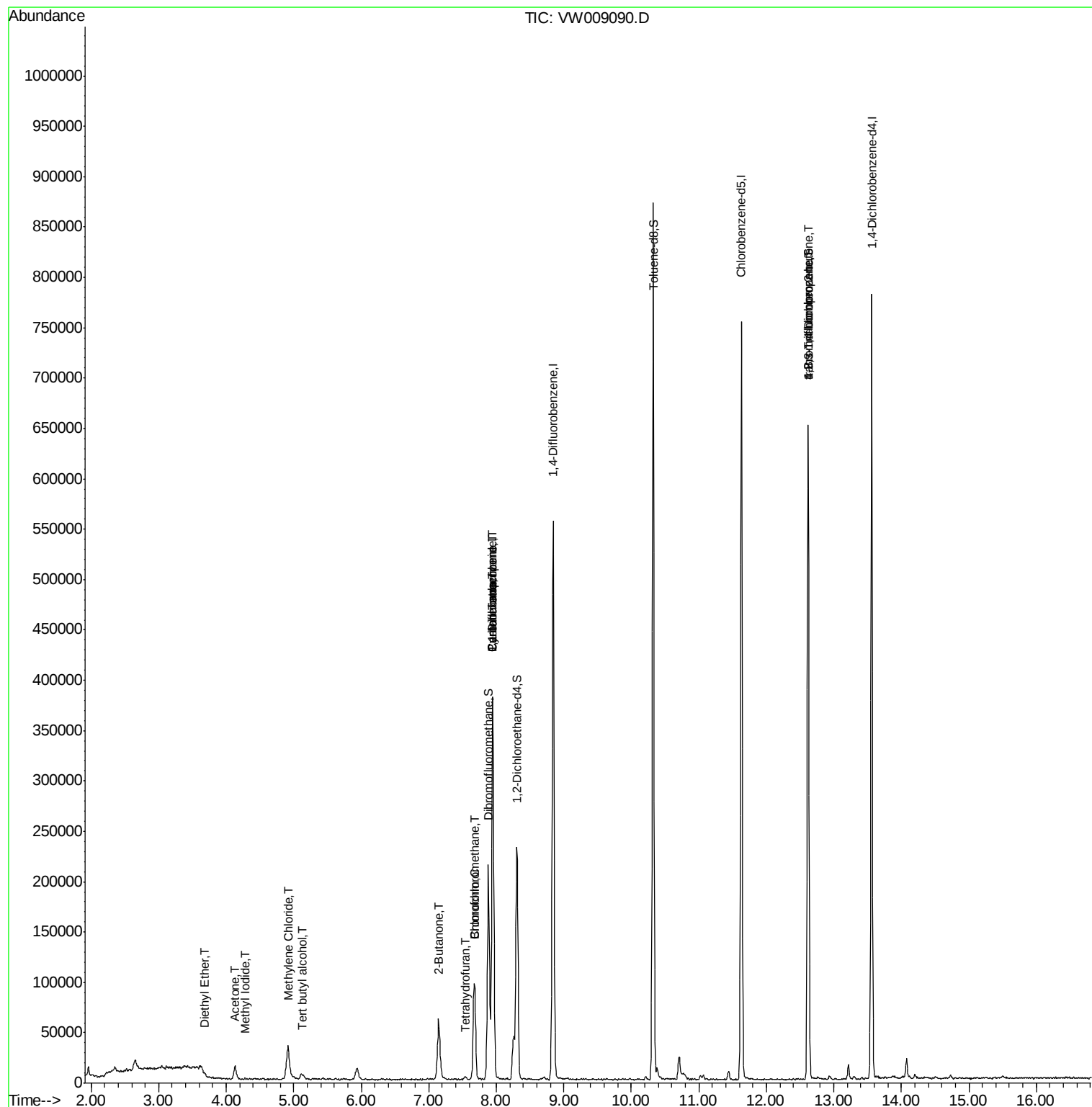
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	1576	1.100	ug/l	79
10) Methyl Iodide	4.27	142	47	3.201	ug/l #	40
11) Tert butyl alcohol	5.13	59	4803	22.234	ug/l #	80
16) Acetone	4.14	43	21858	34.361	ug/l	94
20) Methylene Chloride	4.92	84	24112	2.952	ug/l	88
25) 2-Butanone	7.15	43	3555	4.044	ug/l #	70
28) Bromochloromethane	7.68	49	8281	3.888	ug/l #	14
29) Tetrahydrofuran	7.54	42	1867	3.370	ug/l #	73
30) Chloroform	7.68	83	86141	16.342	ug/l	90
31) Cyclohexane	7.95	56	7001	1.332	ug/l #	23
36) 1,1-Dichloropropene	7.95	75	22413	4.833	ug/l #	49
38) Carbon Tetrachloride	7.95	117	26734	5.582	ug/l #	17
76) 1,2,3-Trichloropropane	12.62	75	96926	65.811	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	96926	147.201	ug/l #	5

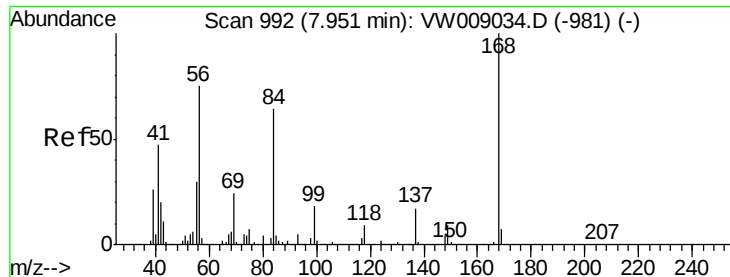
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

Instrument :

MSVOA_W

ClientSampleId :

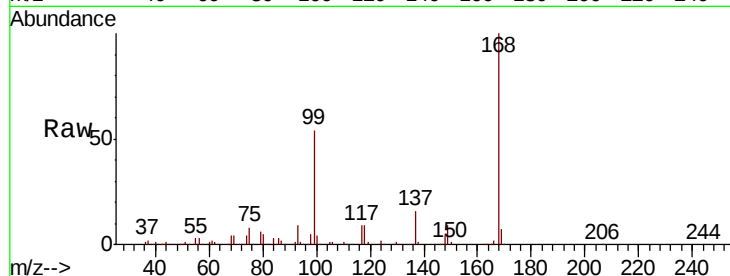
MR-MH-06-COMP

Tgt Ion:168 Resp: 280188

Ion Ratio Lower Upper

168 100

99 54.1 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

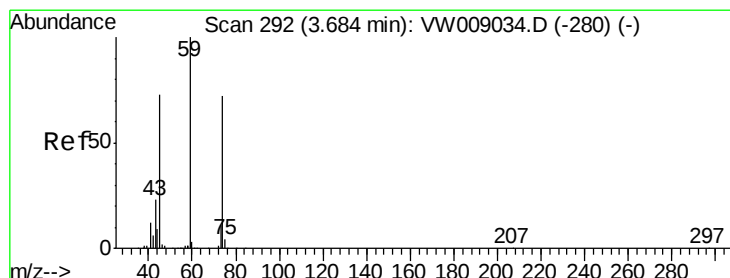
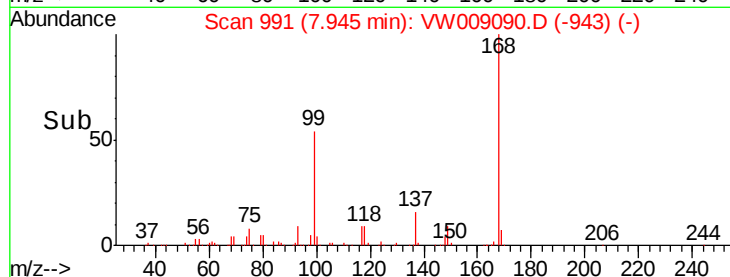
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.100 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.00 min

Lab File: VW009090.D

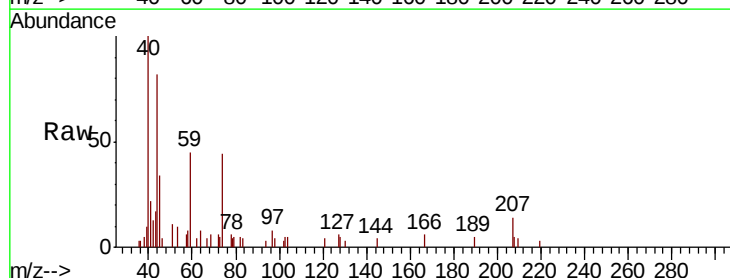
Acq: 11 Mar 2019 16:52

Tgt Ion: 74 Resp: 1576

Ion Ratio Lower Upper

74 100

45 83.2 52.3 157.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

800

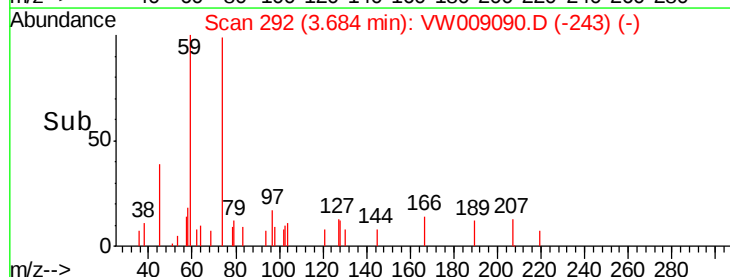
600

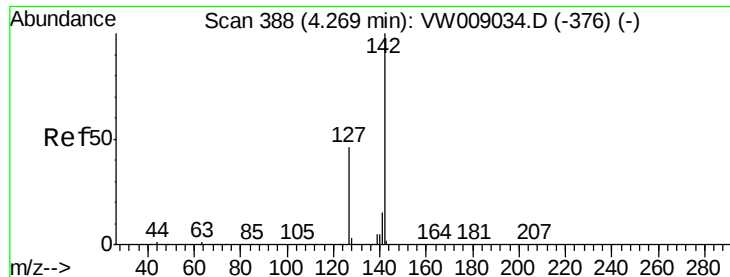
400

200

0

Time-->

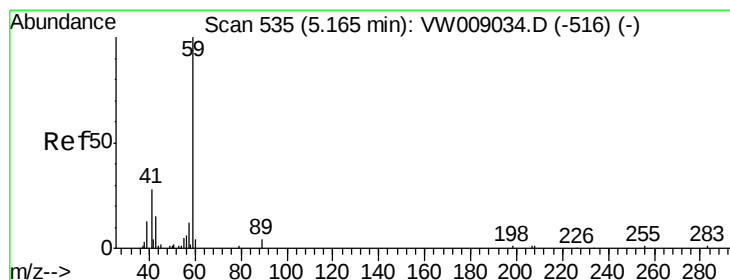
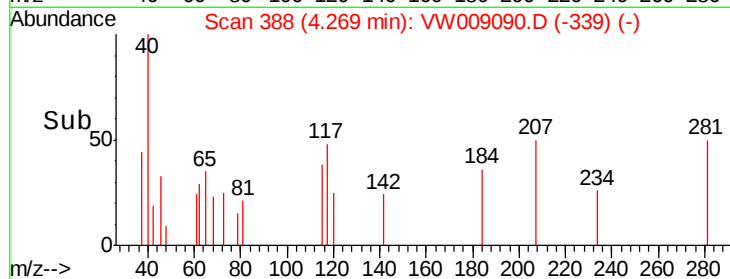
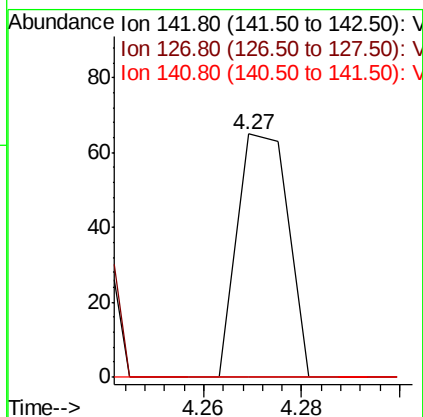
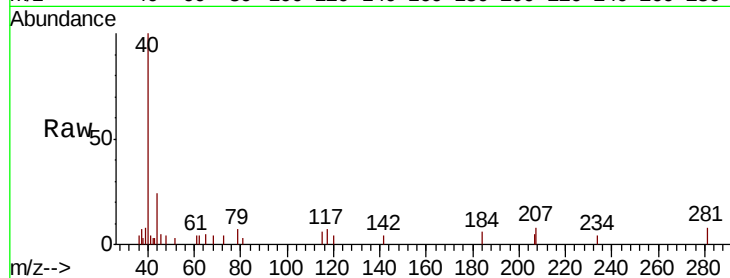




#10
Methyl Iodide
Concen: 3.201 ug/l
RT: 4.27 min Scan# 388
Delta R.T. 0.00 min
Lab File: VW009090.D
Acq: 11 Mar 2019 16:52

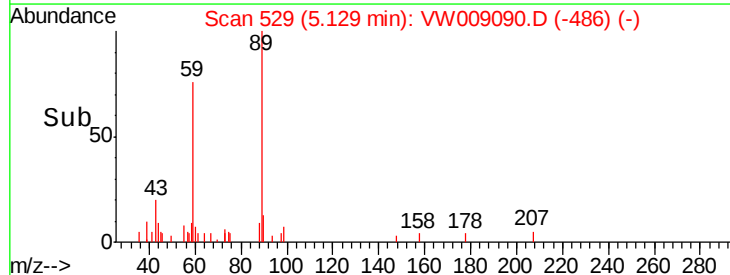
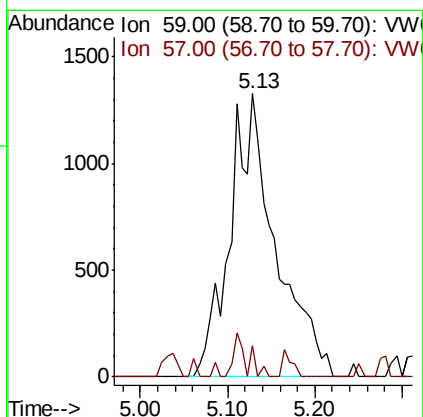
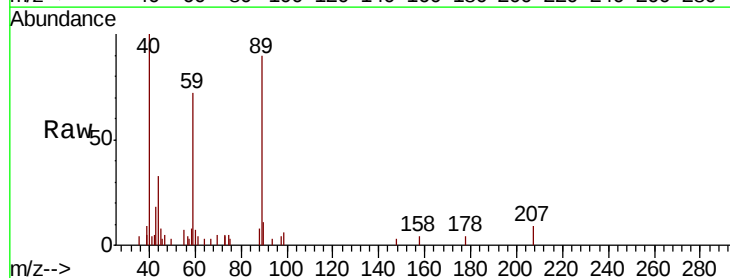
Instrument :
MSVOA_W
ClientSampleId :
MR-MH-06-COMP

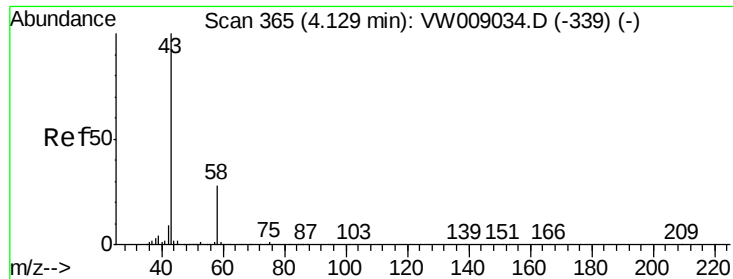
Tgt Ion:142 Resp: 47
Ion Ratio Lower Upper
142 100
127 0.0 35.8 53.6#
141 0.0 11.8 17.8#



#11
Tert butyl alcohol
Concen: 22.234 ug/l
RT: 5.13 min Scan# 529
Delta R.T. -0.04 min
Lab File: VW009090.D
Acq: 11 Mar 2019 16:52

Tgt Ion: 59 Resp: 4803
Ion Ratio Lower Upper
59 100
57 3.0 8.6 12.8#





#16

Acetone

Concen: 34.361 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

Instrument :

MSVOA_W

ClientSampleId :

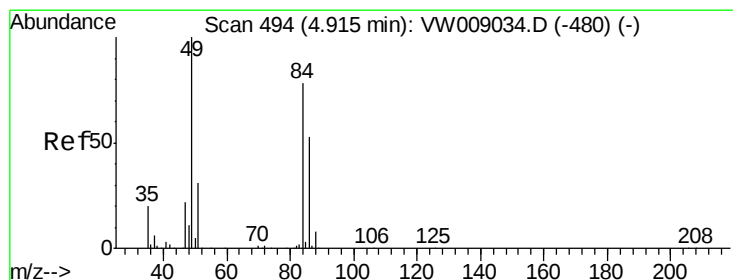
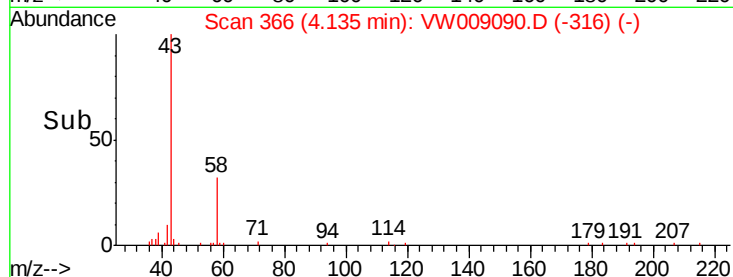
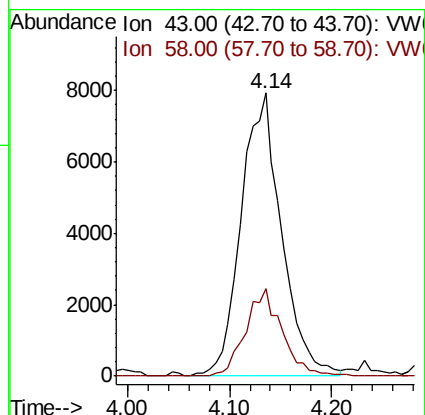
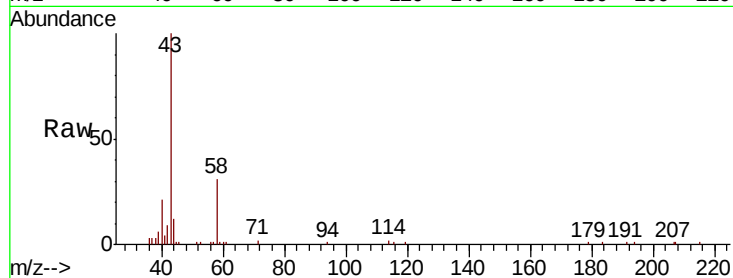
MR-MH-06-COMP

Tgt Ion: 43 Resp: 21858

Ion Ratio Lower Upper

43 100

58 31.1 22.5 33.7



#20

Methylene Chloride

Concen: 2.952 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

Tgt Ion: 84 Resp: 24112

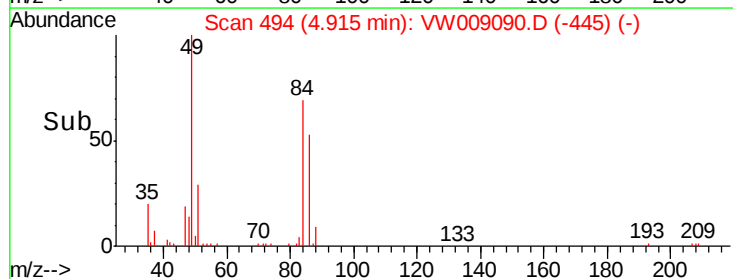
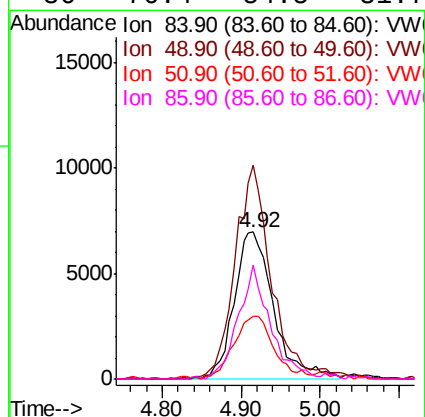
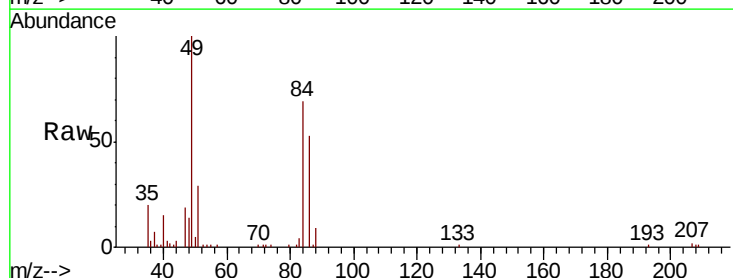
Ion Ratio Lower Upper

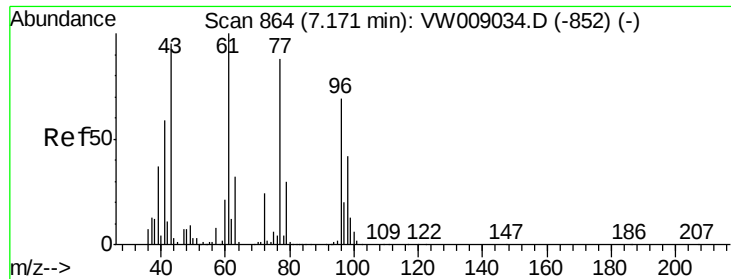
84 100

49 145.1 102.4 153.6

51 41.7 31.6 47.4

86 76.4 54.5 81.7





#25

2-Butanone

Concen: 4.044 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

Instrument :

MSVOA_W

ClientSampleId :

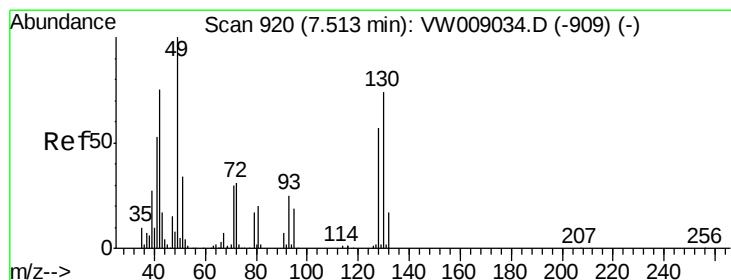
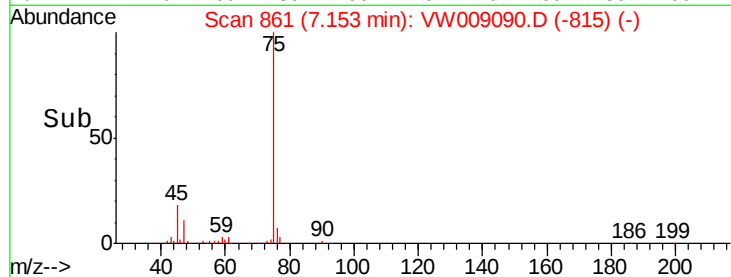
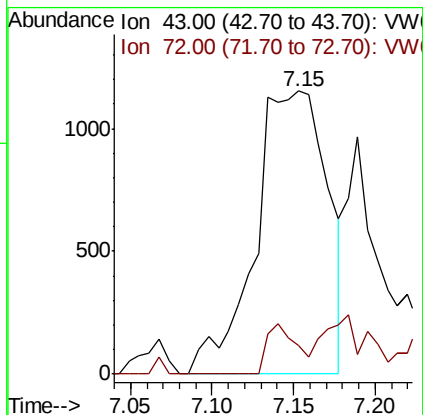
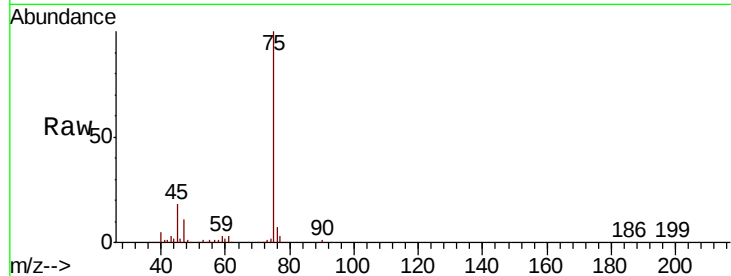
MR-MH-06-COMP

Tgt Ion: 43 Resp: 3555

Ion Ratio Lower Upper

43 100

72 10.1 20.0 30.0#



#28

Bromochloromethane

Concen: 3.888 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.16 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

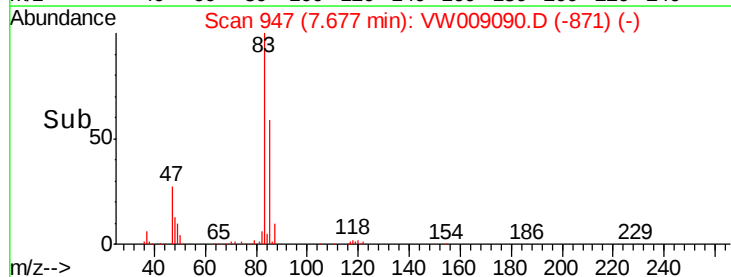
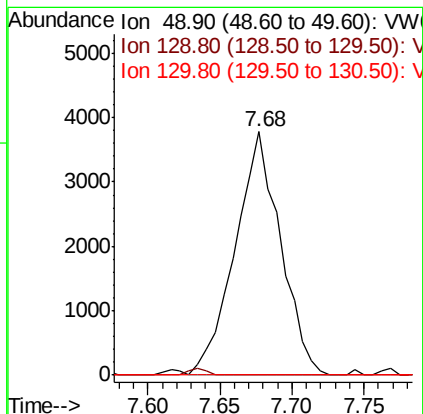
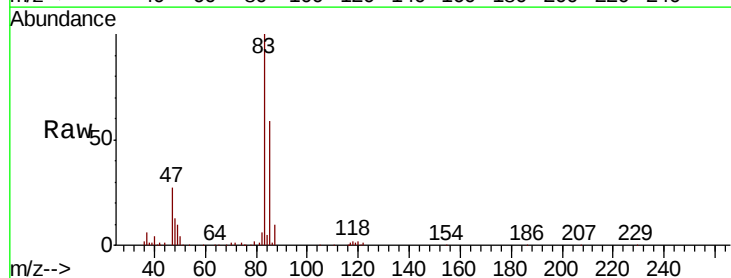
Tgt Ion: 49 Resp: 8281

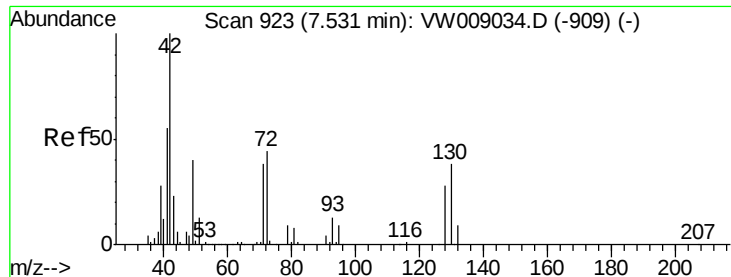
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

130 0.0 60.4 90.6#

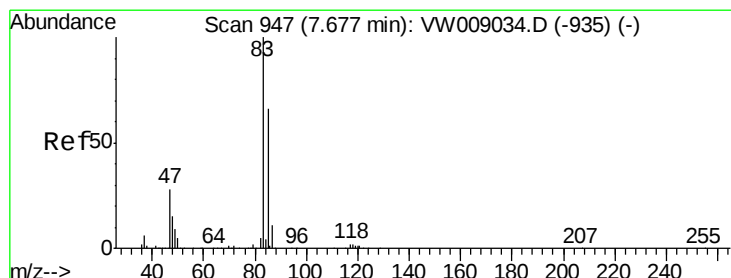
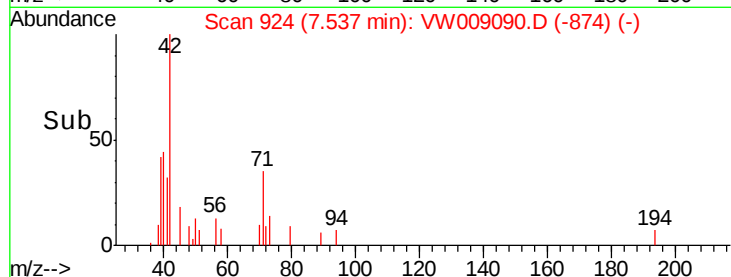
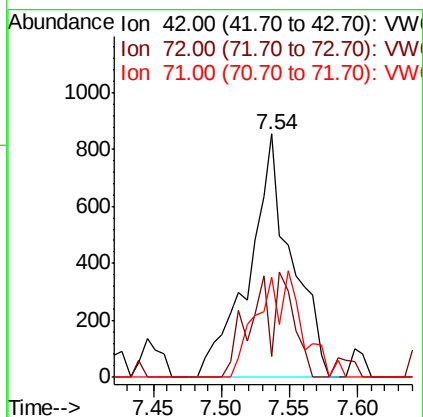
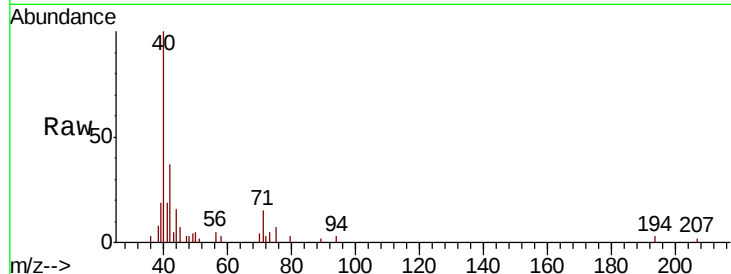




#29
Tetrahydrofuran
Concen: 3.370 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW009090.D
Acq: 11 Mar 2019 16:52

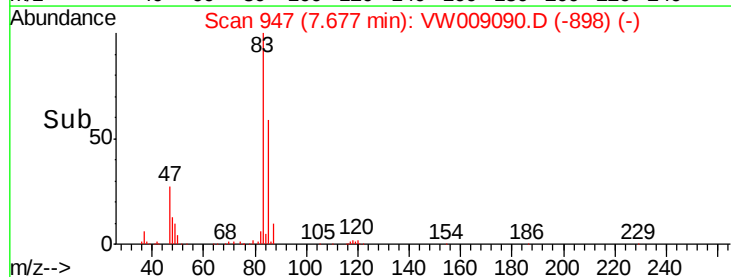
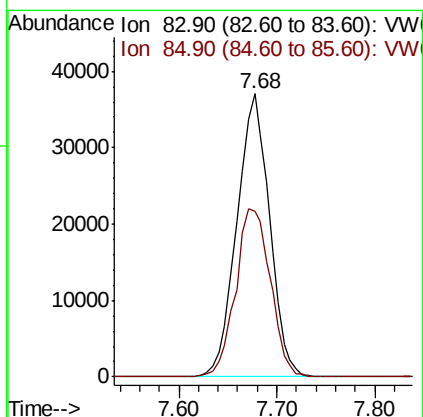
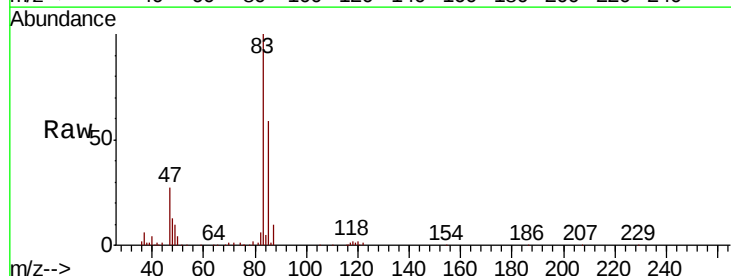
Instrument :
MSVOA_W
ClientSampleId :
MR-MH-06-COMP

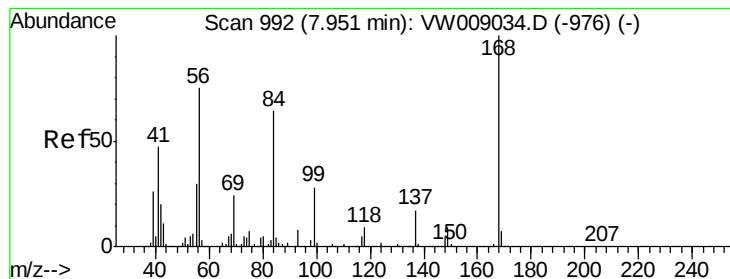
Tgt Ion: 42 Resp: 1867
Ion Ratio Lower Upper
42 100
72 20.9 32.2 48.4#
71 24.2 30.7 46.1#



#30
Chloroform
Concen: 16.342 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW009090.D
Acq: 11 Mar 2019 16:52

Tgt Ion: 83 Resp: 86141
Ion Ratio Lower Upper
83 100
85 58.7 53.0 79.6





#31

Cyclohexane

Concen: 1.332 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

Instrument :

MSVOA_W

ClientSampleId :

MR-MH-06-COMP

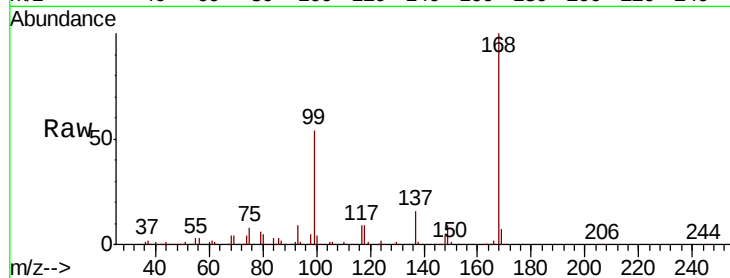
Tgt Ion: 56 Resp: 7001

Ion Ratio Lower Upper

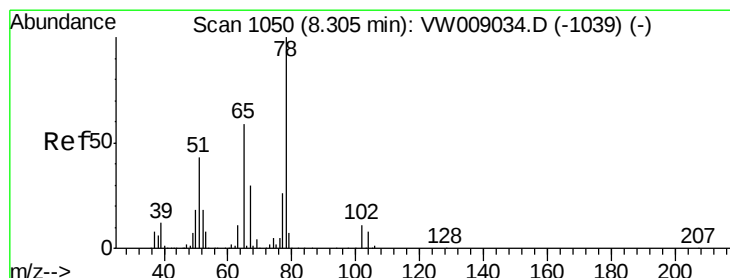
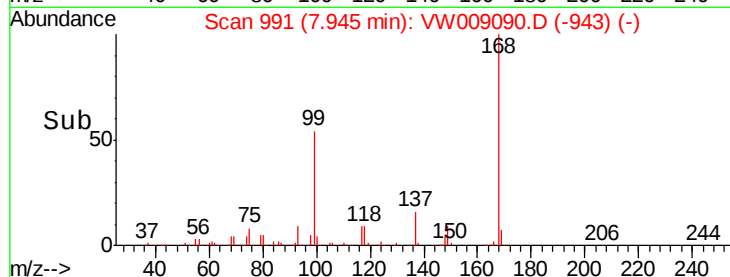
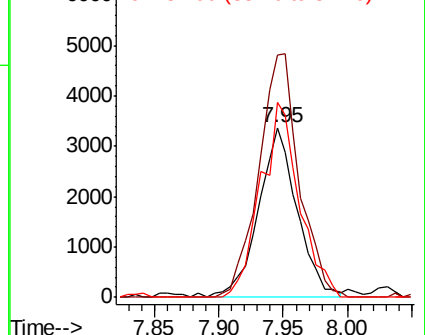
56 100

69 143.1 25.5 38.3#

84 114.9 68.6 103.0#



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: 60.190 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW009090.D

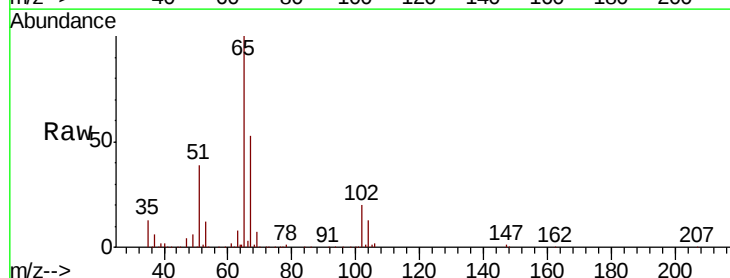
Acq: 11 Mar 2019 16:52

Tgt Ion: 65 Resp: 169674

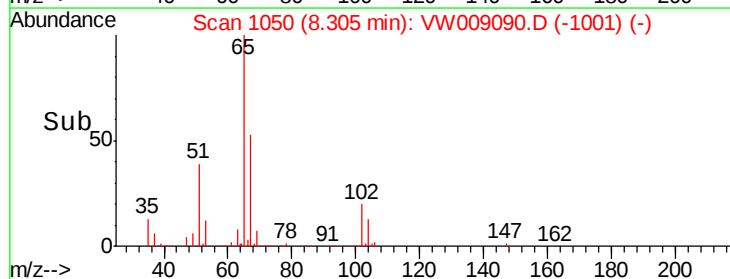
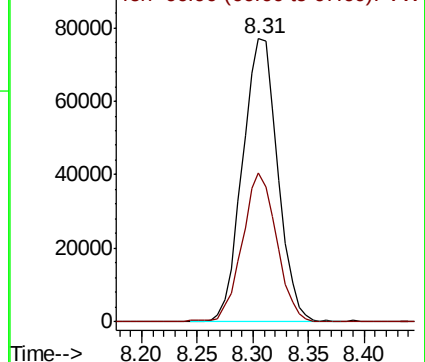
Ion Ratio Lower Upper

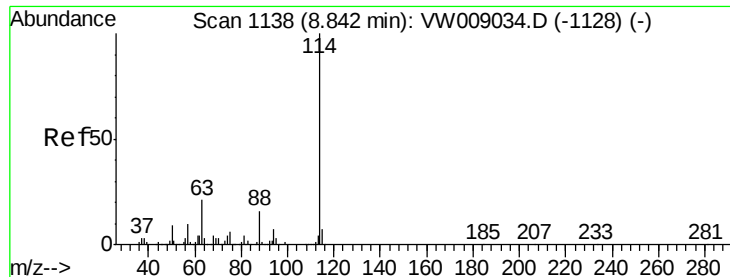
65 100

67 51.5 0.0 103.0



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: VW009090.D

Acq: 11 Mar 2019 16:52

Instrument :

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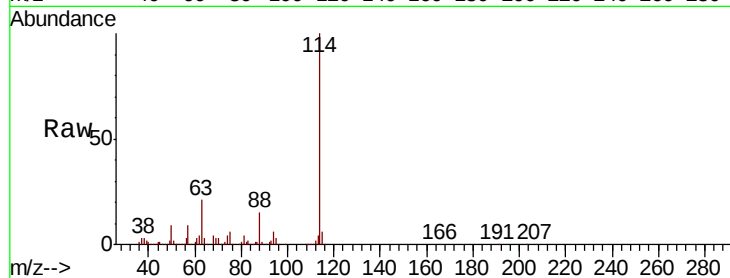
Tgt Ion:114 Resp: 443524

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.2

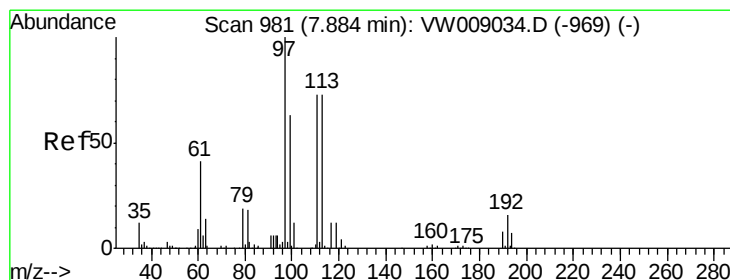
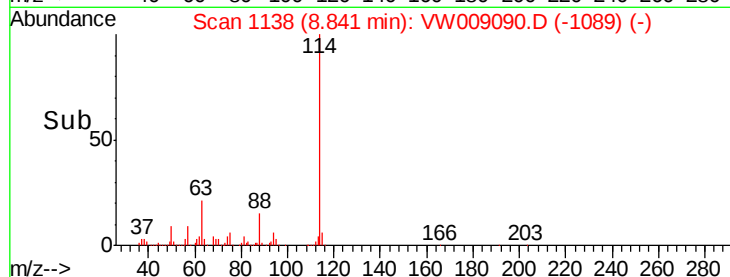
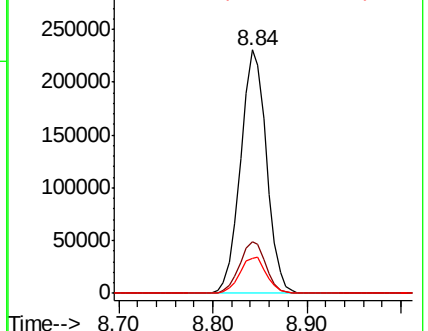
88 14.6 0.0 31.2



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: 51.987 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

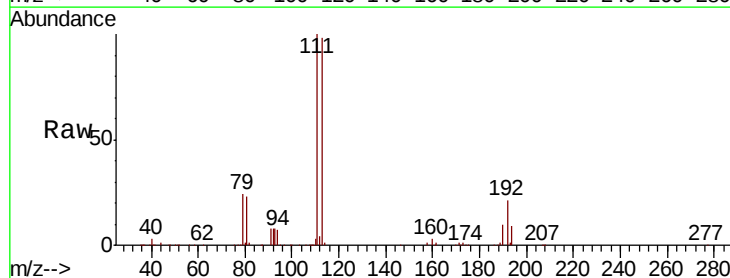
Tgt Ion:113 Resp: 138826

Ion Ratio Lower Upper

113 100

111 104.9 81.0 121.4

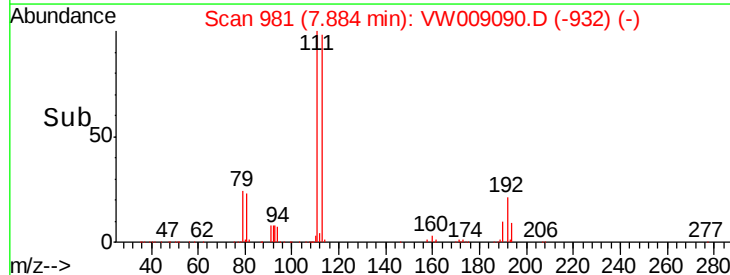
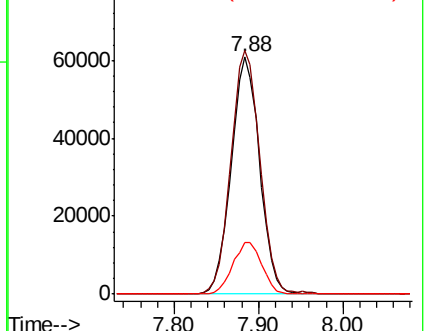
192 22.4 17.1 25.7

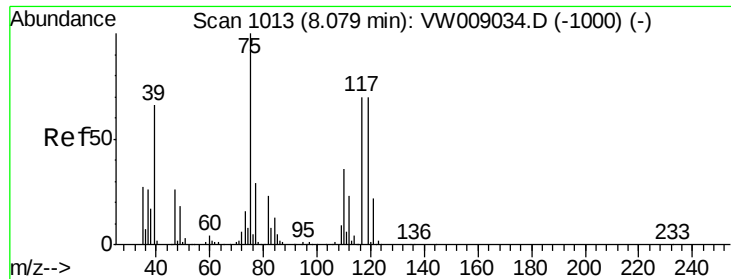


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

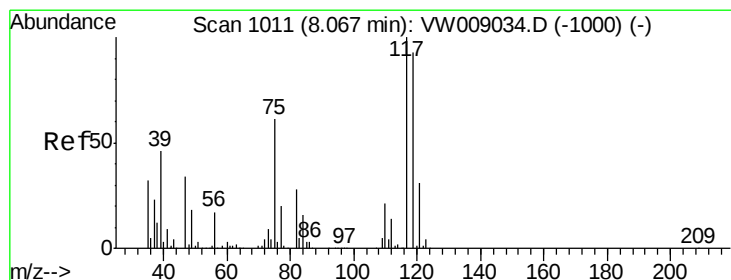
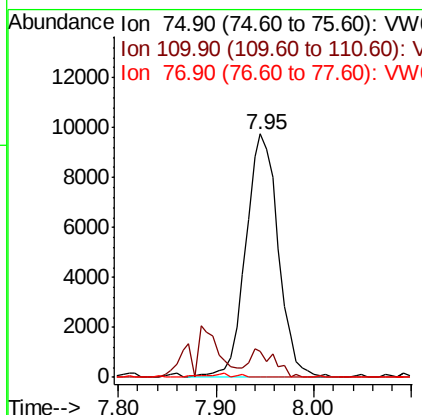
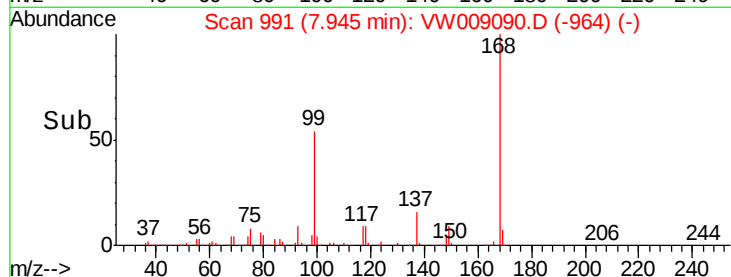
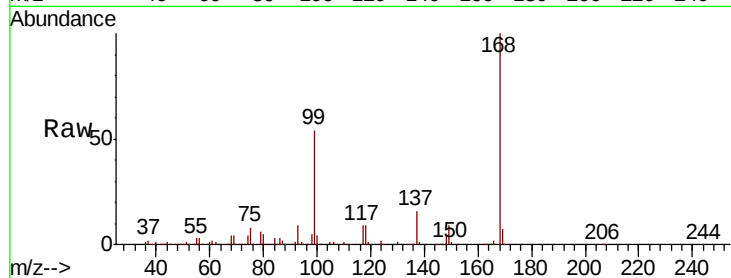




#36
 1,1-Dichloropropene
 Concen: 4.833 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW009090.D
 Acq: 11 Mar 2019 16:52

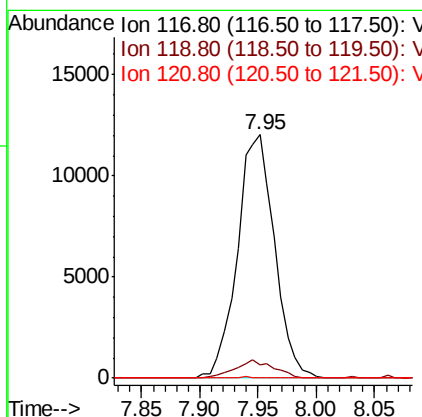
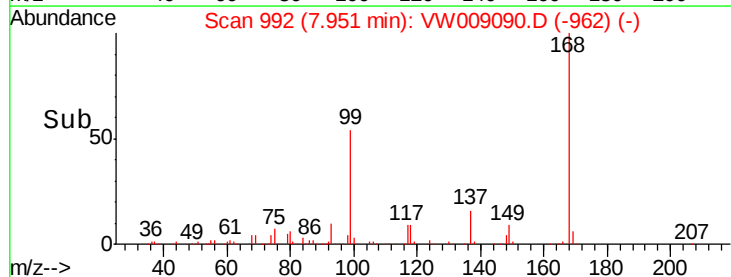
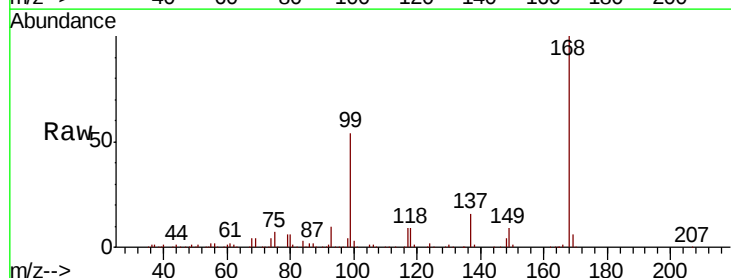
Instrument :
 MSVOA_W
 ClientSampleId :
 MR-MH-06-COMP

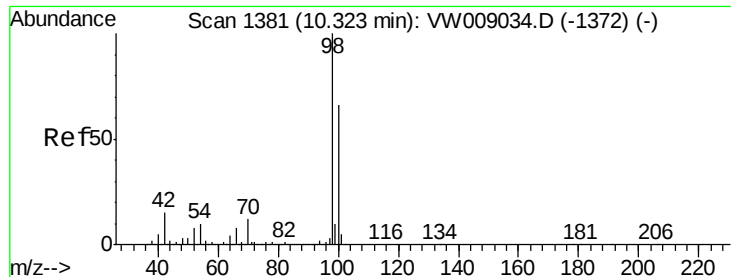
Tgt Ion: 75 Resp: 22413
 Ion Ratio Lower Upper
 75 100
 110 8.7 17.6 52.9#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.582 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW009090.D
 Acq: 11 Mar 2019 16:52

Tgt Ion: 117 Resp: 26734
 Ion Ratio Lower Upper
 117 100
 119 5.6 74.6 112.0#
 121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 49.196 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

Instrument :

MSVOA_W

ClientSampleId :

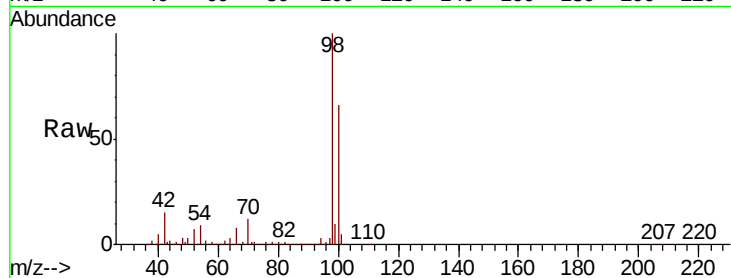
MR-MH-06-COMP

Tgt Ion: 98 Resp: 539576

Ion Ratio Lower Upper

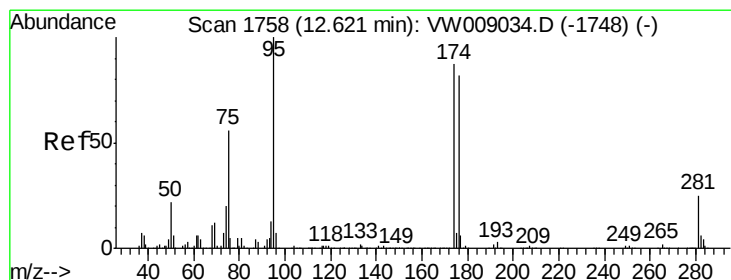
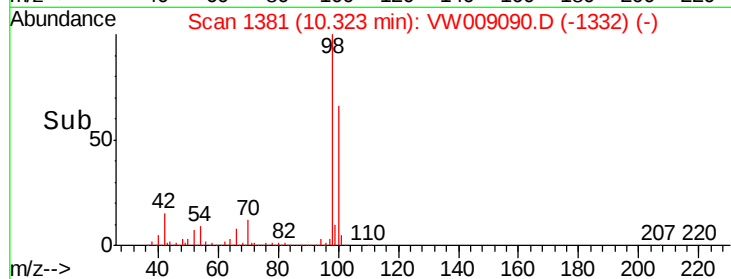
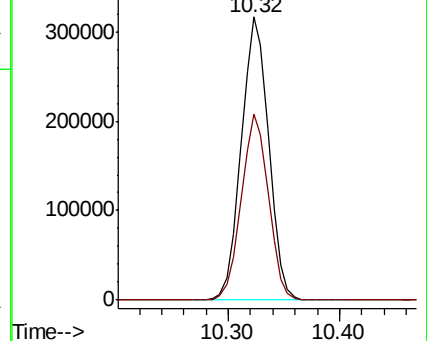
98 100

100 65.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 42.246 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

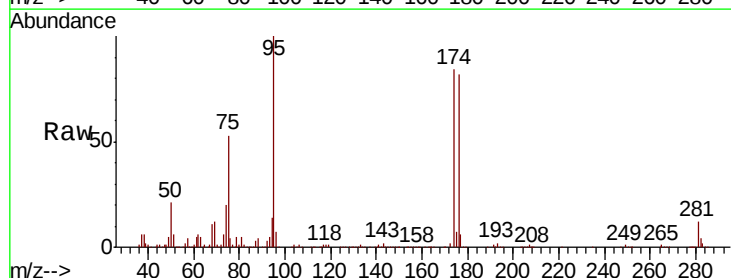
Tgt Ion: 95 Resp: 182401

Ion Ratio Lower Upper

95 100

174 84.9 0.0 167.0

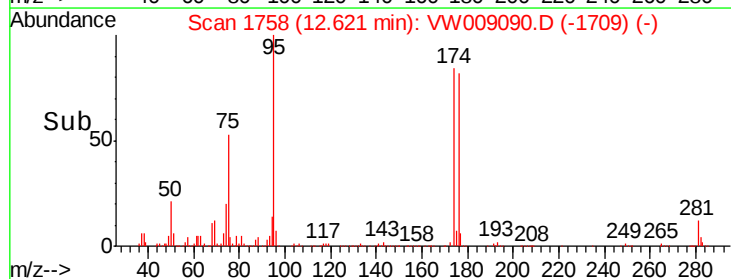
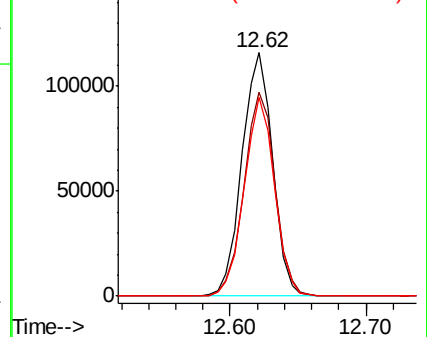
176 80.9 0.0 159.4

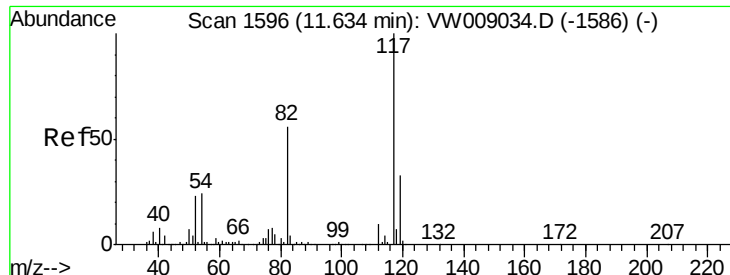


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW009090.D

Acq: 11 Mar 2019 16:52

Instrument :

MSVOA_W

ClientSampleId :

MR-MH-06-COMP

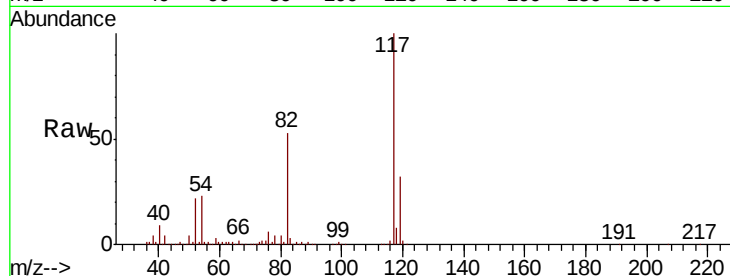
Tgt Ion:117 Resp: 404183

Ion Ratio Lower Upper

117 100

82 53.3 45.0 67.6

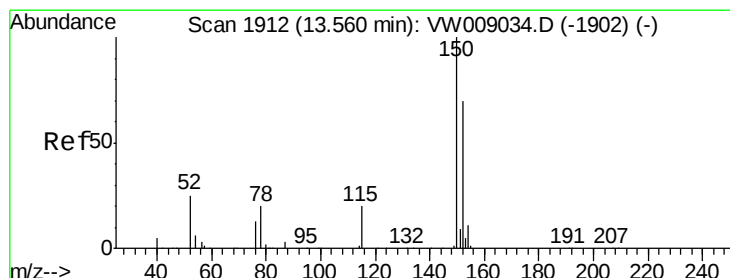
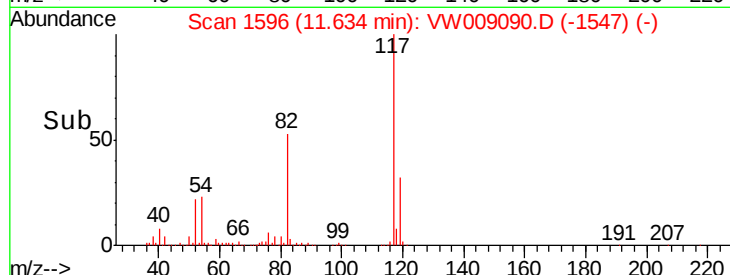
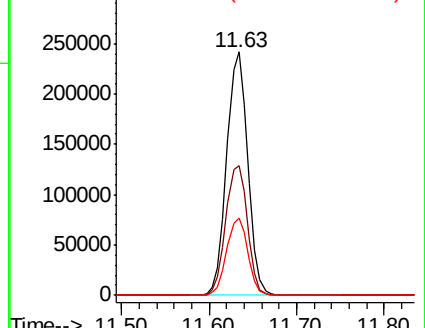
119 31.8 26.6 39.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

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: VW009090.D

Acq: 11 Mar 2019 16:52

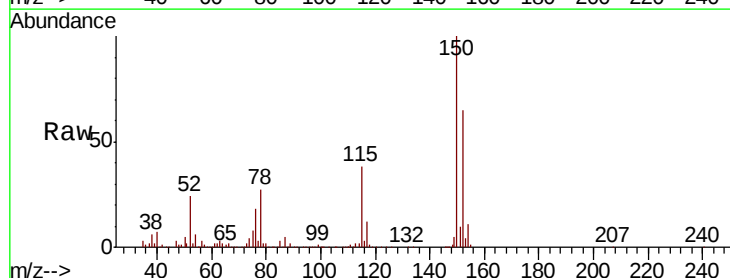
Tgt Ion:152 Resp: 186411

Ion Ratio Lower Upper

152 100

115 59.3 28.9 86.7

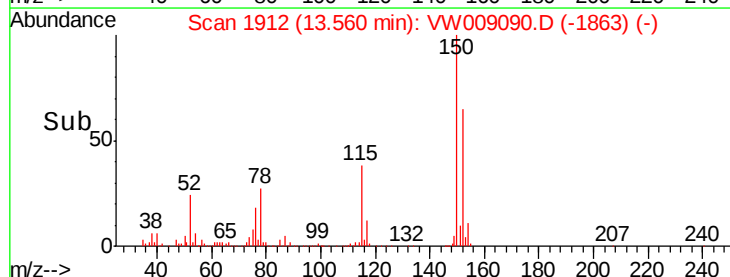
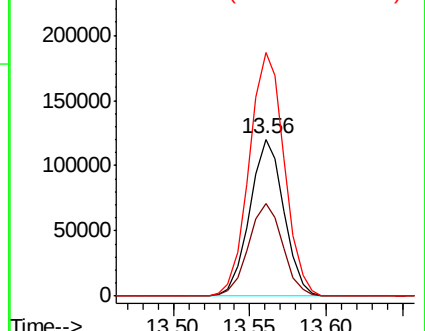
150 159.4 0.0 349.2

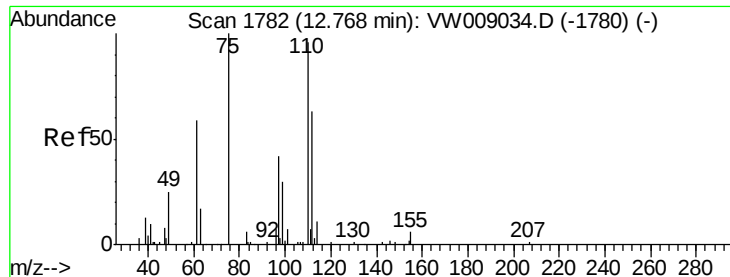


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

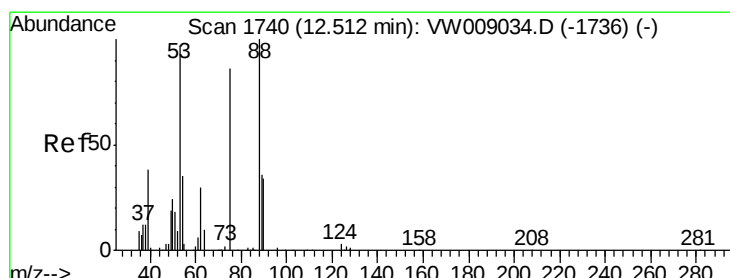
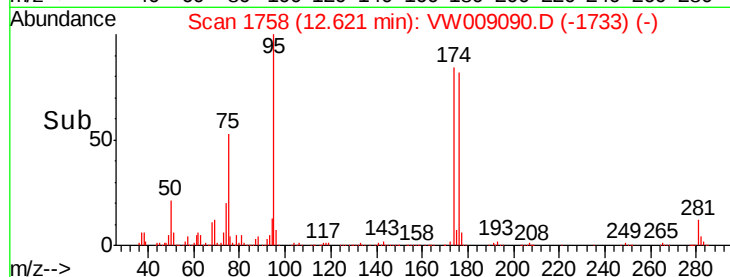
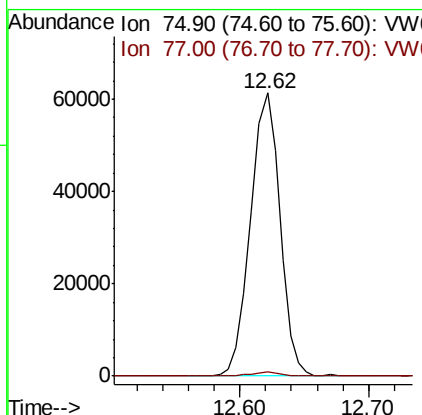
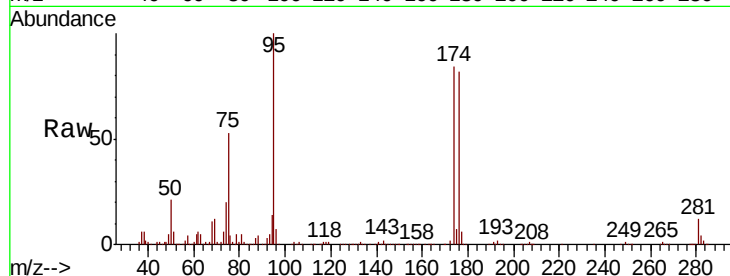




#76
 1,2,3-Trichloropropane
 Concen: 65.811 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW009090.D
 Acq: 11 Mar 2019 16:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MR-MH-06-COMP

Tgt Ion: 75 Resp: 96926
 Ion Ratio Lower Upper
 75 100
 77 1.4 186.7 560.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 147.201 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW009090.D
 Acq: 11 Mar 2019 16:52

Tgt Ion: 75 Resp: 96926
 Ion Ratio Lower Upper
 75 100
 53 0.4 90.5 135.7#
 89 0.1 37.5 56.3#

