

Data File : VW008172.D
Acq On : 11 Jan 2019 03:20
Operator : SY/AP
Sample : K1005-01RE
Misc : 6.33G/5ML/MSVOA_W/SOIL
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
HR-06-010918-ARE

Quant Time: Jan 11 05:23:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 04:40:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	87893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	160537	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	137295	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	55549	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	55629	56.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.62%	
35) Dibromofluoromethane	7.88	113	49539	52.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.82%	
50) Toluene-d8	10.32	98	205297	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
62) 4-Bromofluorobenzene	12.62	95	63611	45.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.32%	

Target Compounds

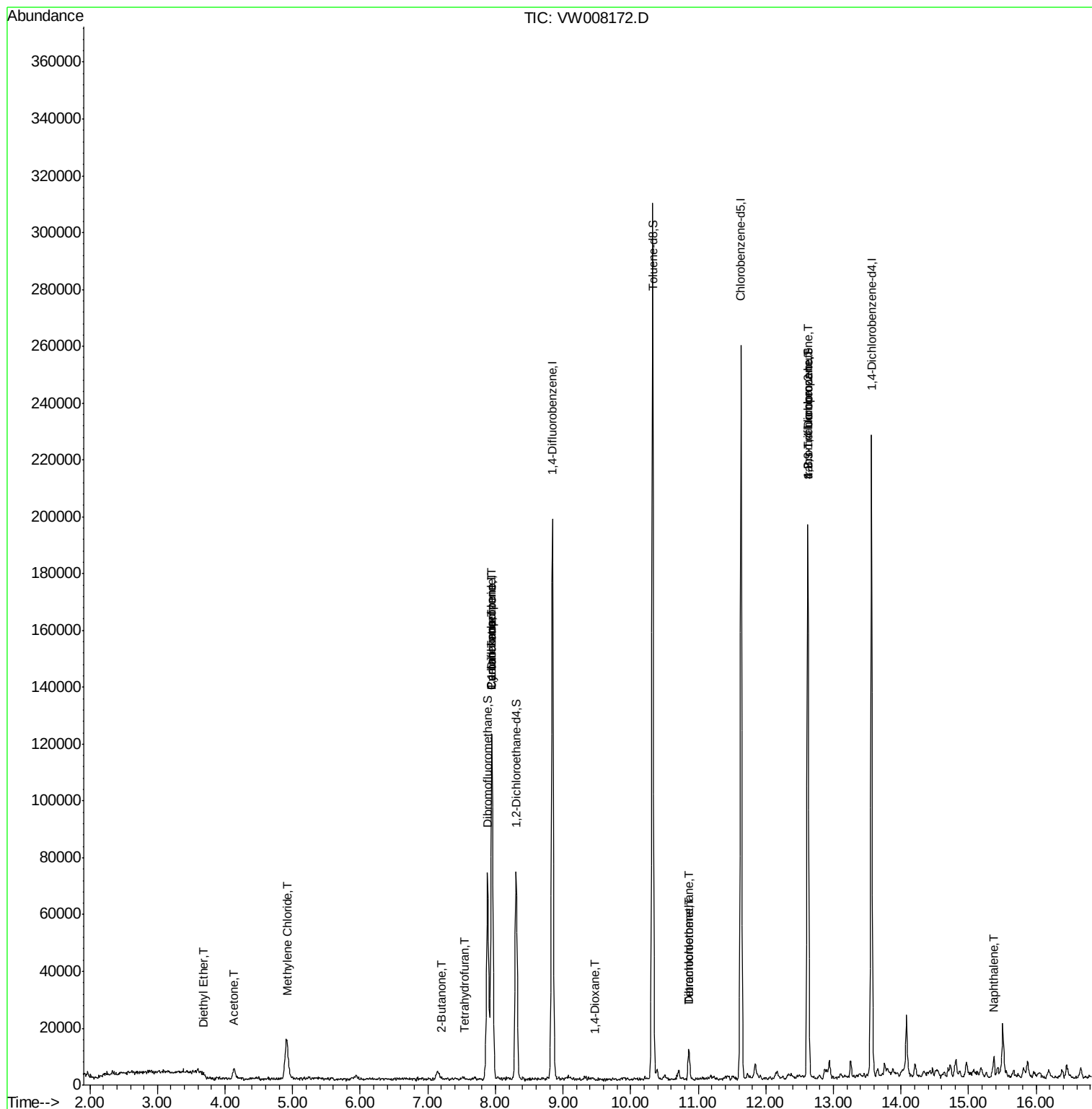
					Qvalue	
8) Diethyl Ether	3.68	74	763	1.367	ug/l	98
11) Tert butyl alcohol	5.24	59	101	Below Cal	#	100
16) Acetone	4.13	43	6421	16.399	ug/l #	81
20) Methylene Chloride	4.92	84	10900	7.080	ug/l	95
25) 2-Butanone	7.21	43	445	1.619	ug/l #	1
29) Tetrahydrofuran	7.54	42	323	1.759	ug/l #	53
31) Cyclohexane	7.94	56	2421	1.165	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	7571	4.578	ug/l #	52
38) Carbon Tetrachloride	7.95	117	9513	6.285	ug/l #	16
49) 1,4-Dioxane	9.47	88	34	3.871	ug/l #	92
60) Dibromochloromethane	10.87	129	2026	2.406	ug/l #	12
64) Tetrachloroethene	10.86	164	2500	2.798	ug/l #	85
76) 1,2,3-Trichloropropane	12.62	75	31619	62.440	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	31619	145.404	ug/l #	10
95) Naphthalene	15.37	128	5441	2.672	ug/l #	95

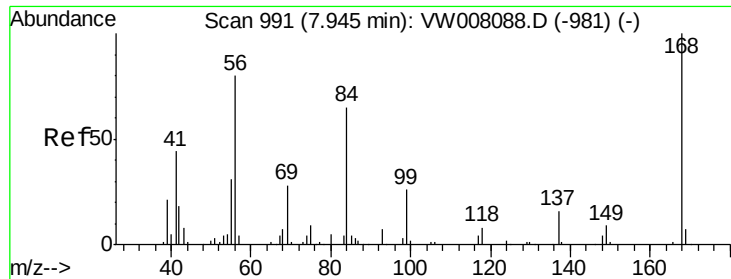
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008172.D

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Instrument :

MSVOA_W

ClientSampleId :

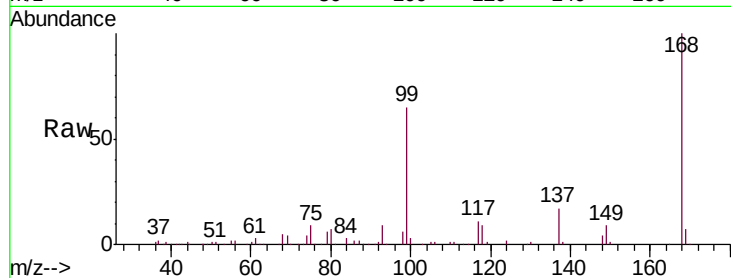
HR-06-010918-ARE

Tgt Ion:168 Resp: 87893

Ion Ratio Lower Upper

168 100

99 65.2 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

20000

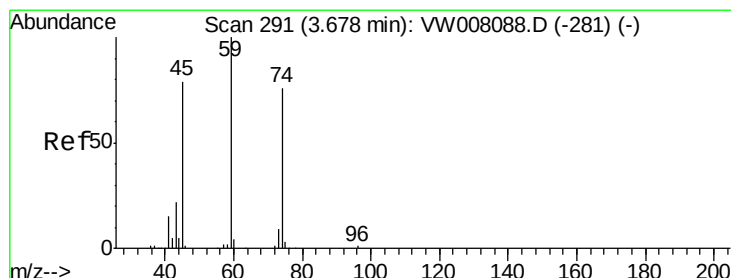
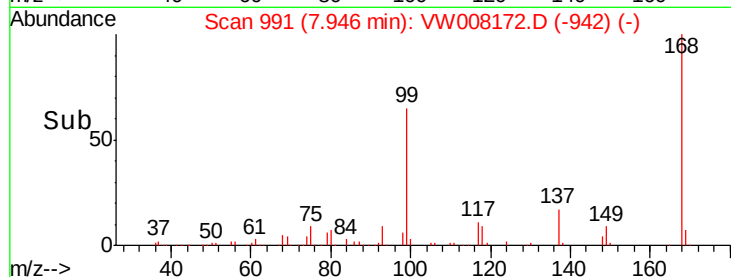
10000

0

7.90

8.00

Time-->



#8

Diethyl Ether

Concen: 1.367 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

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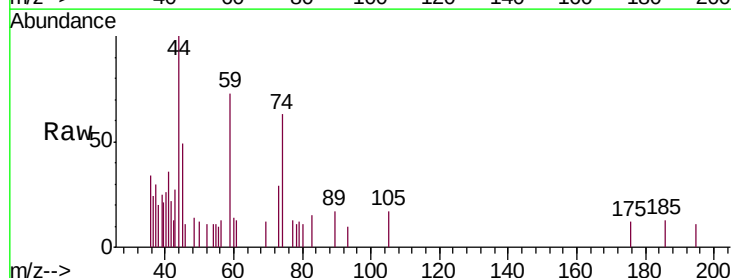
Acq: 11 Jan 2019 03:20

Tgt Ion: 74 Resp: 763

Ion Ratio Lower Upper

74 100

45 102.6 52.4 157.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

400

300

200

100

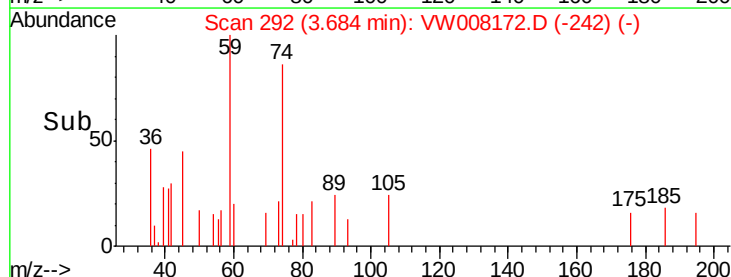
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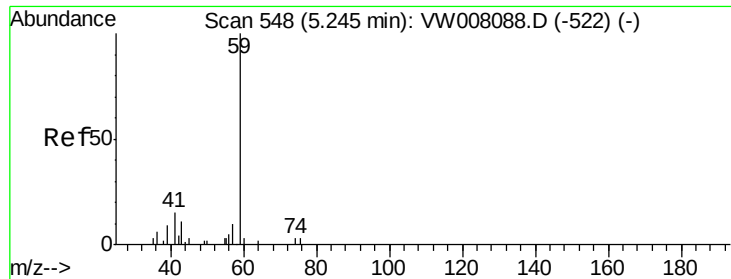
3.65

3.70

3.75

Time-->

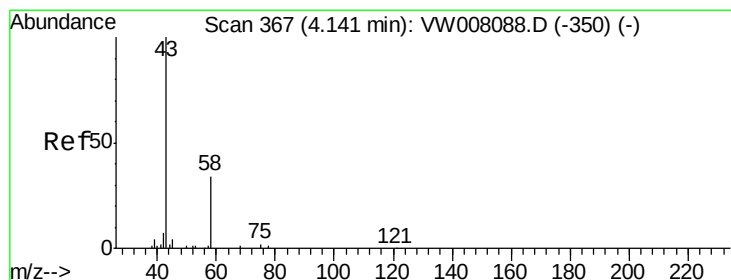
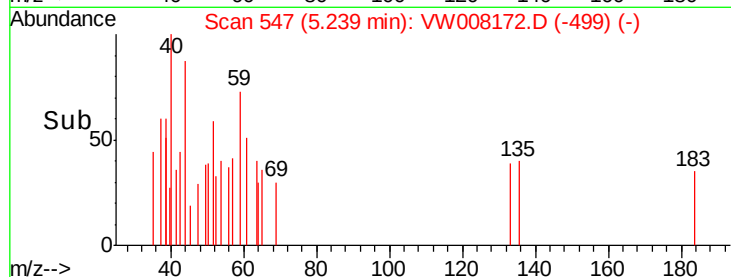
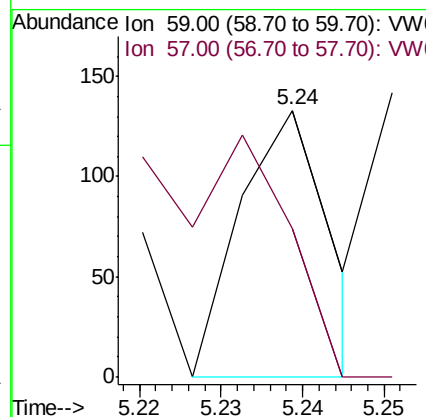
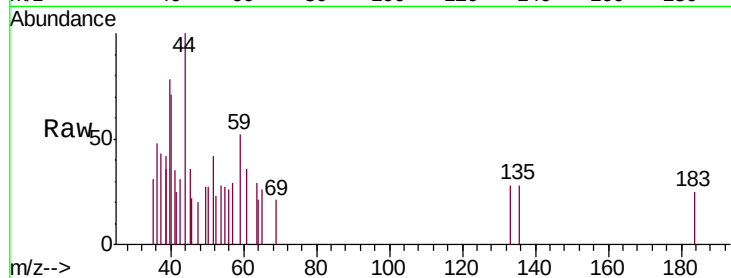




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.24 min Scan# 547
Delta R.T. -0.01 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

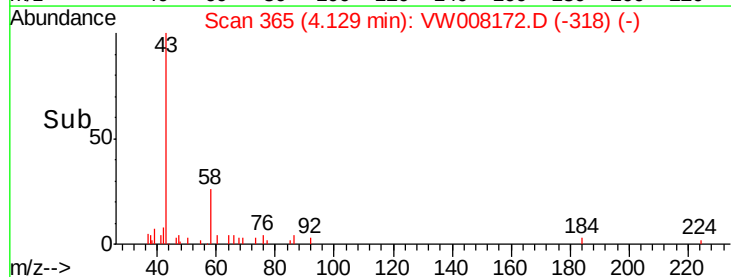
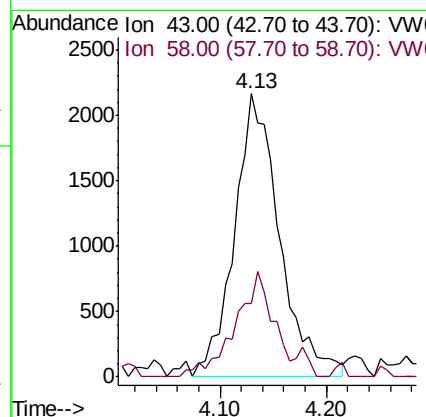
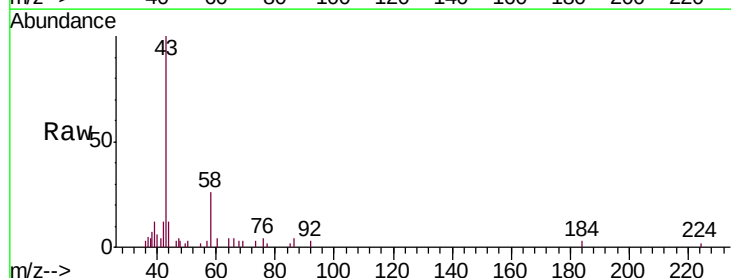
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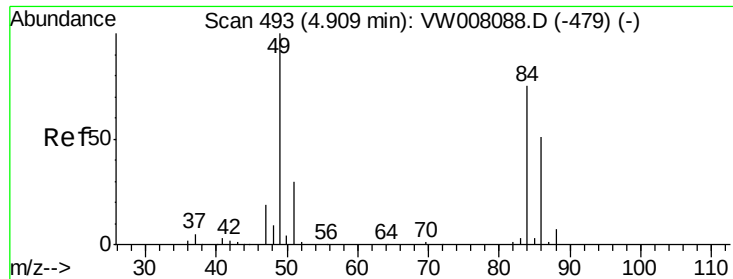
Tgt Ion: 59 Resp: 101
Ion Ratio Lower Upper
59 100
57 159.4 0.0 0.0#



#16
Acetone
Concen: 16.399 ug/l
RT: 4.13 min Scan# 365
Delta R.T. -0.01 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

Tgt Ion: 43 Resp: 6421
Ion Ratio Lower Upper
43 100
58 23.6 27.5 41.3#

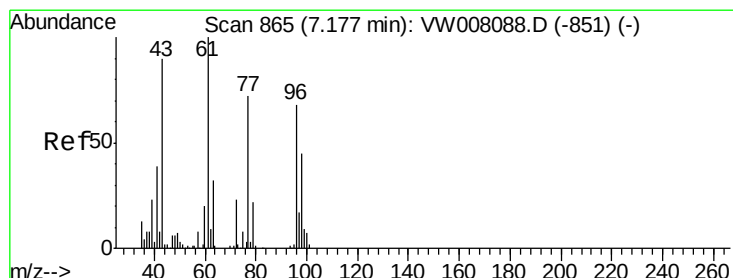
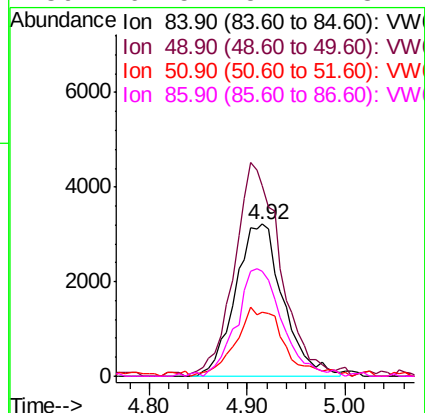
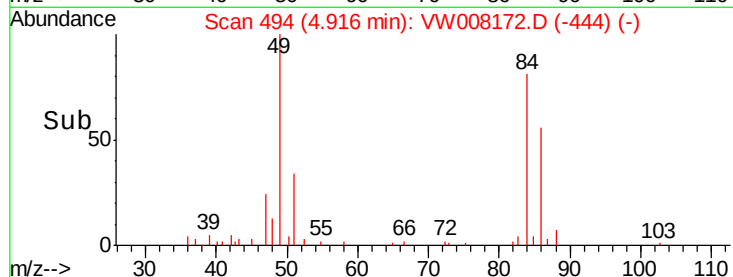
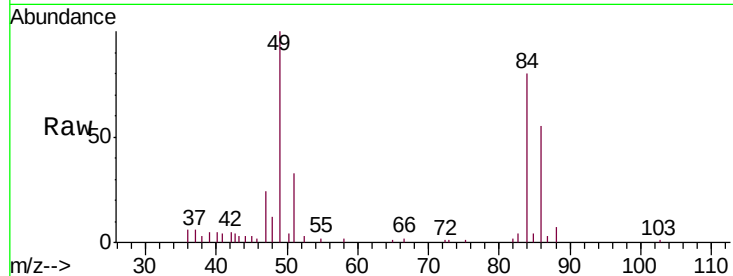




#20
Methylene Chloride
Concen: 7.080 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

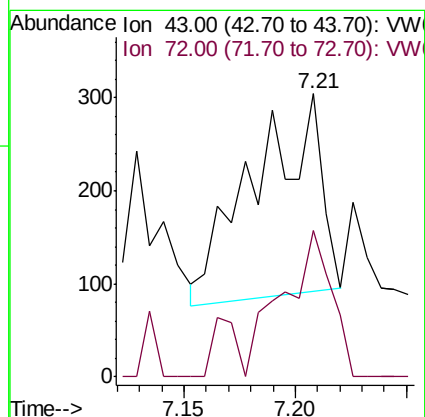
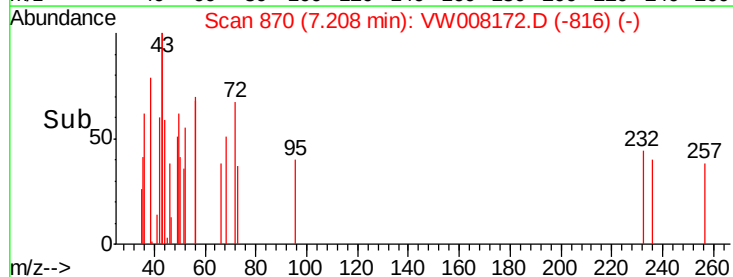
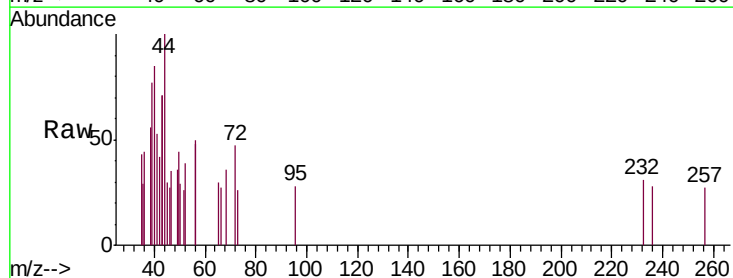
Instrument :
MSVOA_W
ClientSampleId :
HR-06-010918-ARE

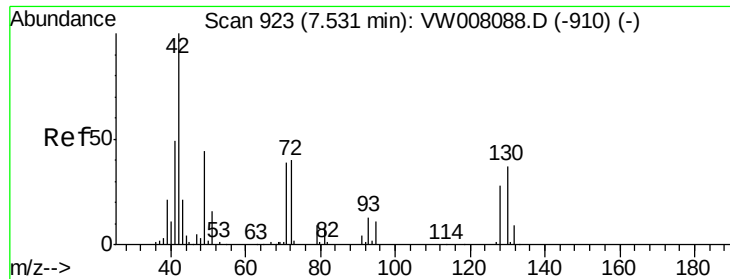
Tgt Ion: 84 Resp: 10900
Ion Ratio Lower Upper
84 100
49 123.7 107.1 160.7
51 41.9 32.4 48.6
86 67.5 54.2 81.4



#25
2-Butanone
Concen: 1.619 ug/l
RT: 7.21 min Scan# 870
Delta R.T. 0.03 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

Tgt Ion: 43 Resp: 445
Ion Ratio Lower Upper
43 100
72 76.0 20.5 30.7#

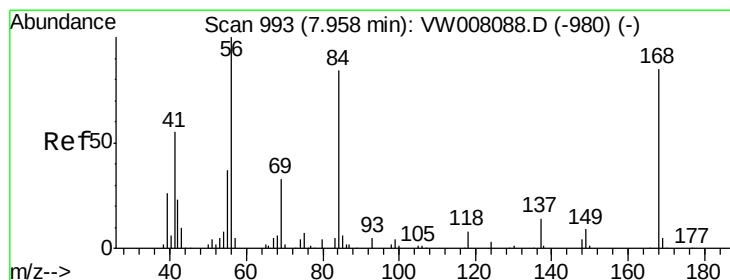
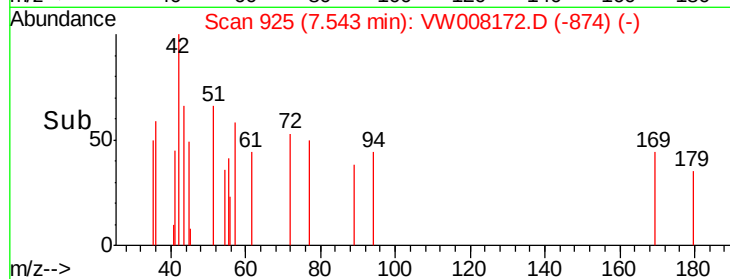
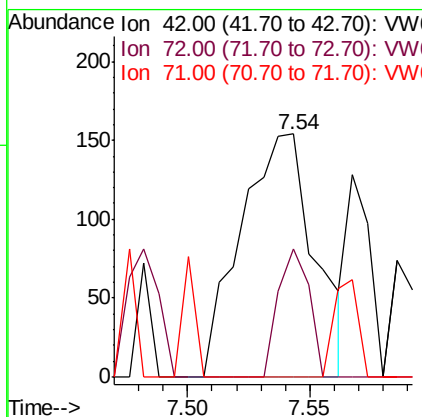
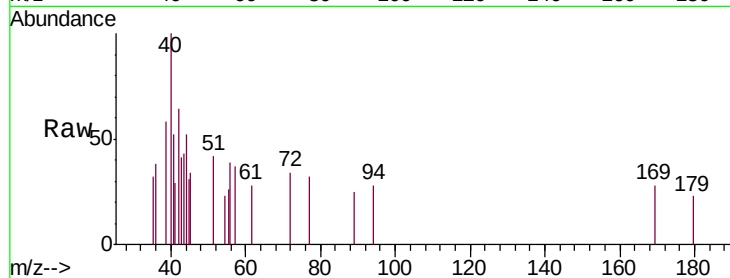




#29
Tetrahydrofuran
Concen: 1.759 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

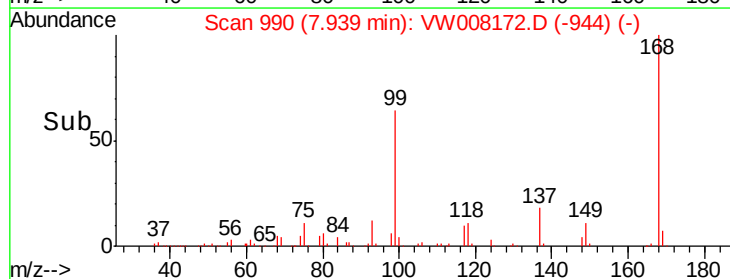
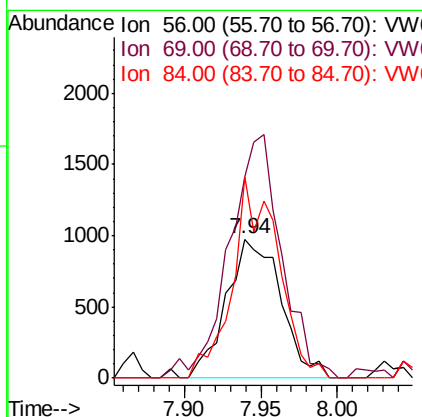
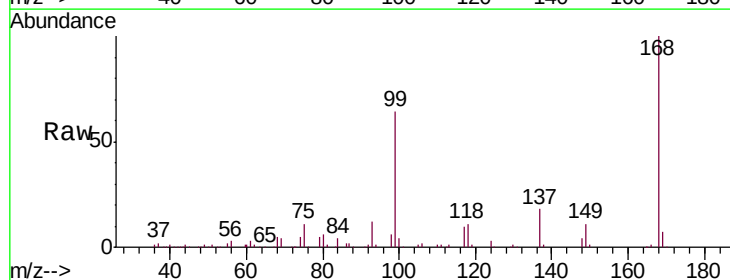
Instrument :
MSVOA_W
ClientSampleId :
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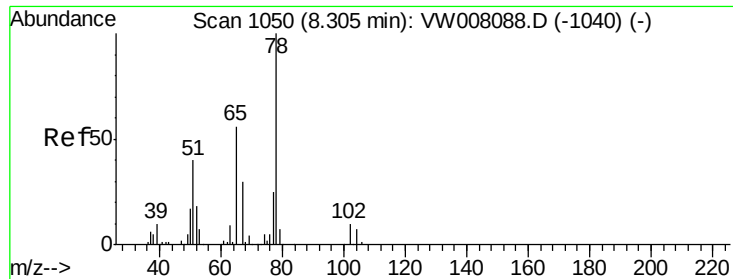
Tgt Ion: 42 Resp: 323
Ion Ratio Lower Upper
42 100
72 22.0 32.4 48.6#
71 0.0 31.3 46.9#



#31
Cyclohexane
Concen: 1.165 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.02 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

Tgt Ion: 56 Resp: 2421
Ion Ratio Lower Upper
56 100
69 145.0 26.2 39.4#
84 144.9 67.4 101.2#

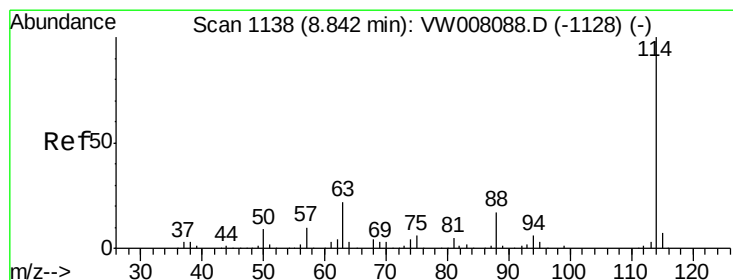
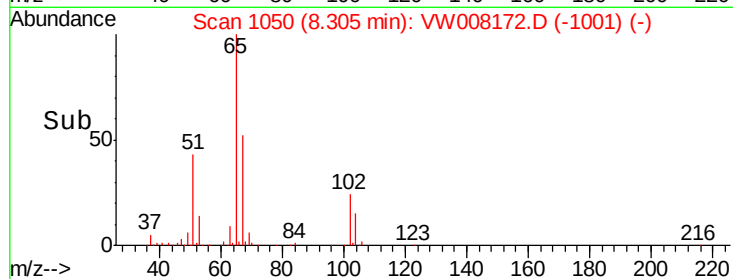
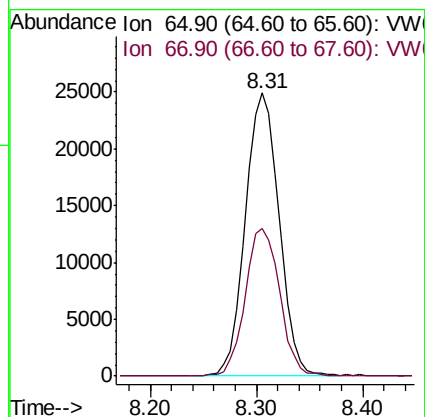
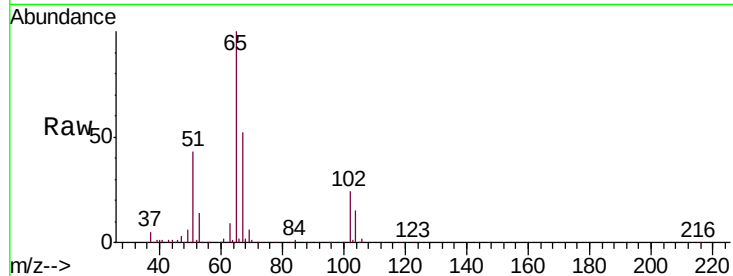




#33
 1,2-Dichloroethane-d4
 Concen: 56.314 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008172.D
 Acq: 11 Jan 2019 03:20

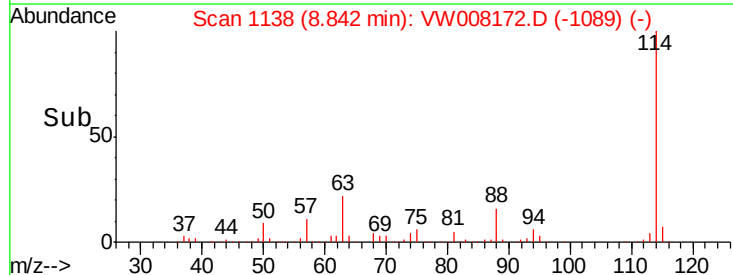
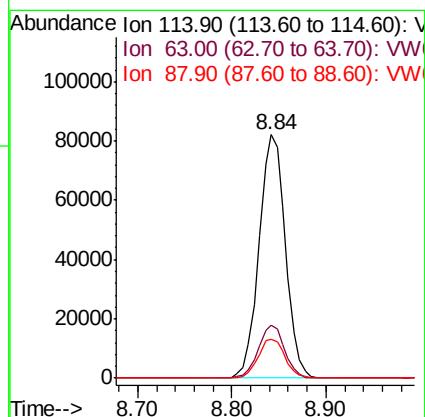
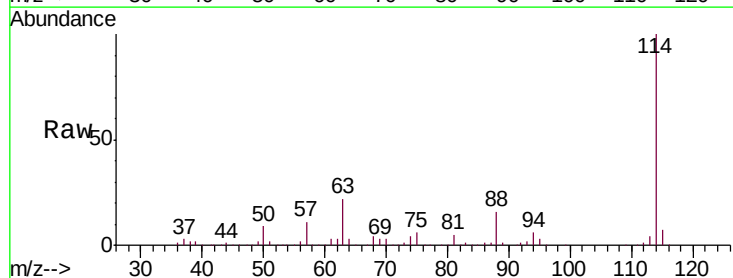
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 HR-06-010918-ARE

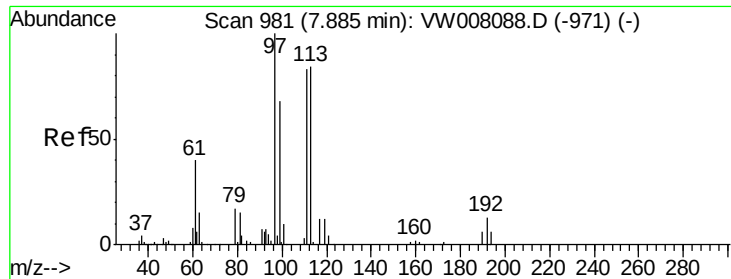
Tgt Ion: 65 Resp: 55629
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008172.D
 Acq: 11 Jan 2019 03:20

Tgt Ion: 114 Resp: 160537
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.4
 88 16.1 0.0 33.4

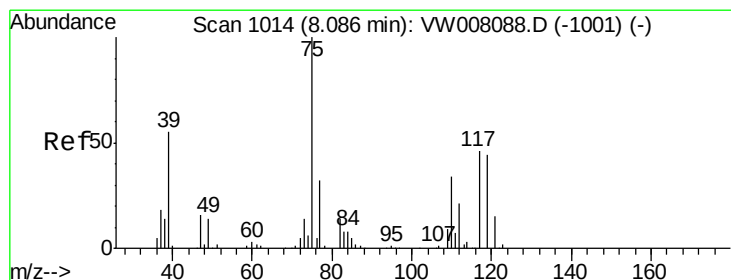
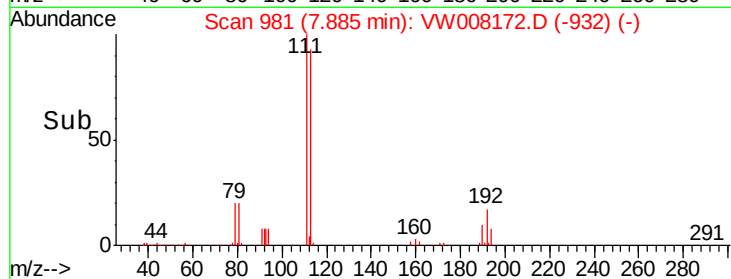
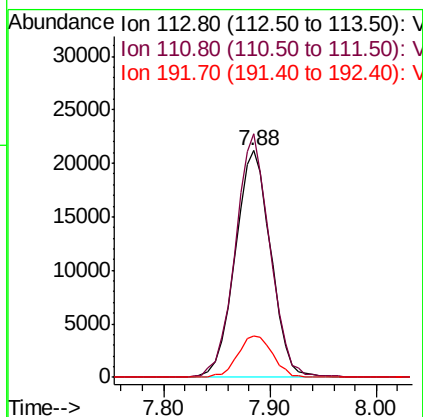
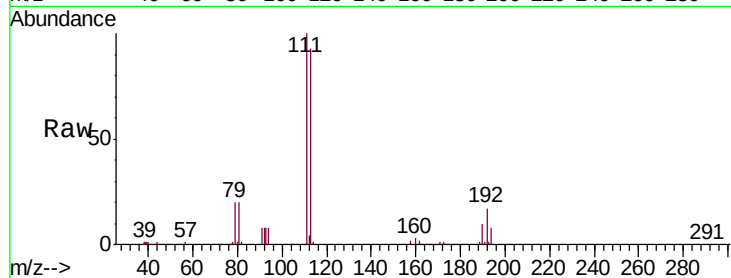




#35
 Dibromofluoromethane
 Concen: 52.909 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008172.D
 Acq: 11 Jan 2019 03:20

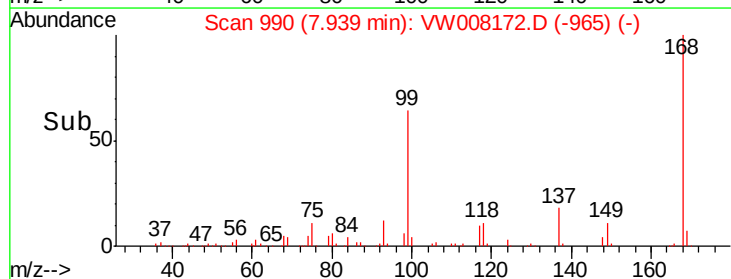
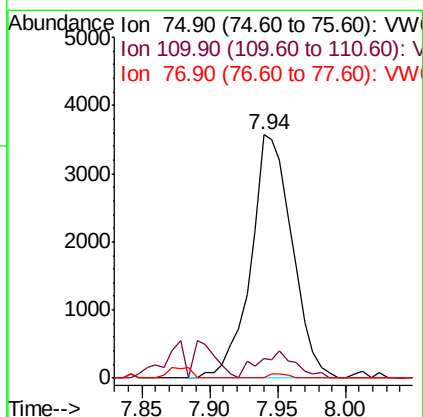
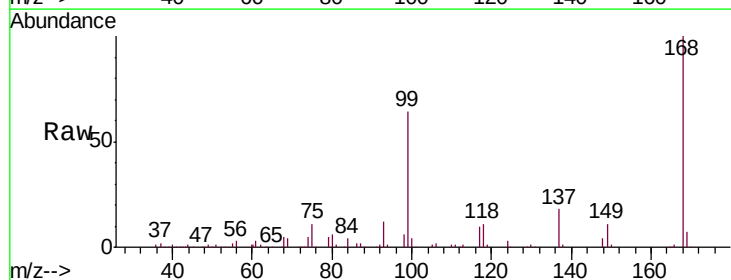
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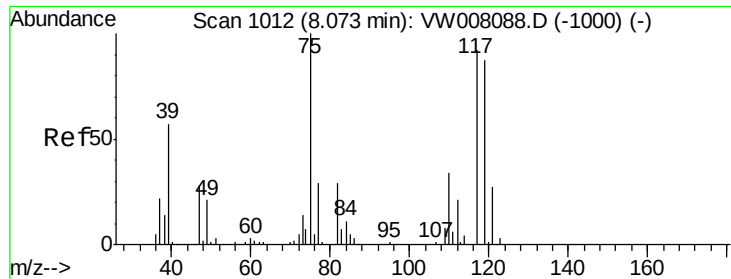
Tgt Ion:113 Resp: 49539
 Ion Ratio Lower Upper
 113 100
 111 104.9 81.8 122.8
 192 18.0 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.578 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.15 min
 Lab File: VW008172.D
 Acq: 11 Jan 2019 03:20

Tgt Ion: 75 Resp: 7571
 Ion Ratio Lower Upper
 75 100
 110 10.3 17.1 51.3#
 77 0.9 25.5 38.3#

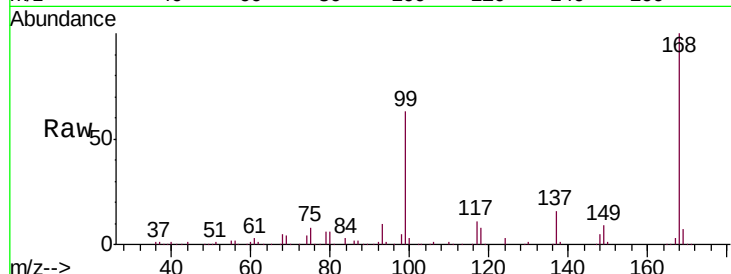




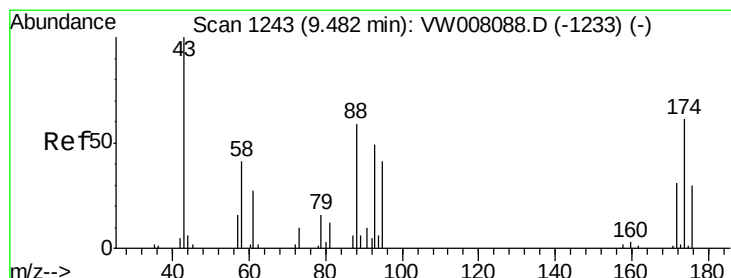
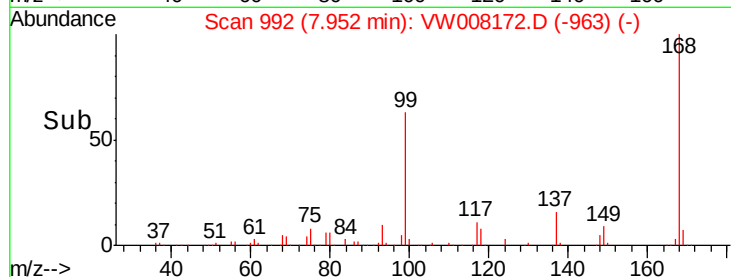
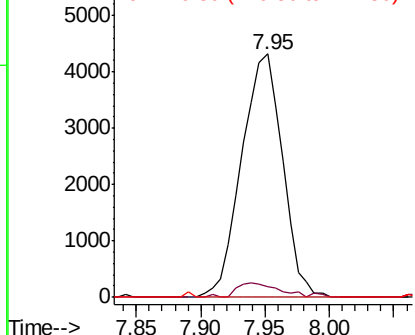
#38
Carbon Tetrachloride
Concen: 6.285 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

Instrument :
MSVOA_W
ClientSampleId :
HR-06-010918-ARE

Tgt Ion: 117 Resp: 9513
Ion Ratio Lower Upper
117 100
119 4.5 75.8 113.8#
121 0.0 23.7 35.5#

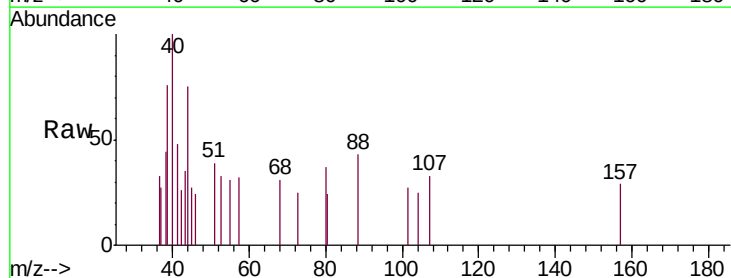


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

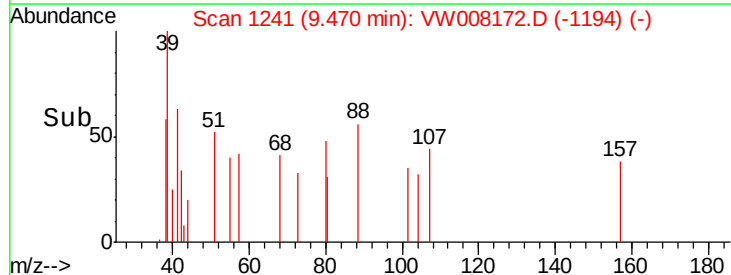
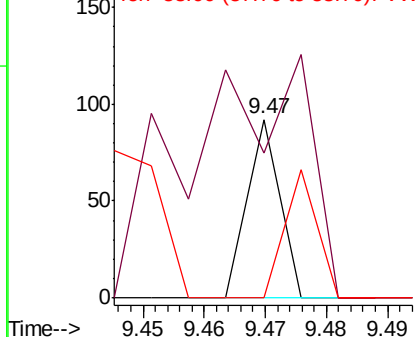


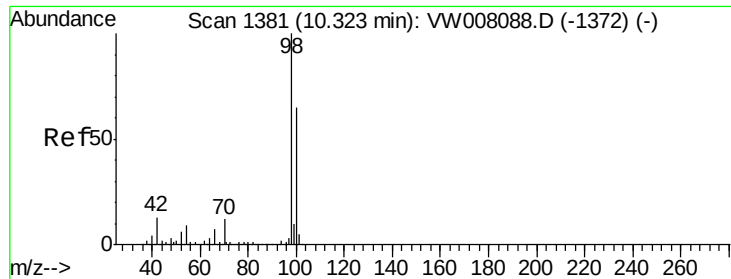
#49
1,4-Dioxane
Concen: 3.871 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

Tgt Ion: 88 Resp: 34
Ion Ratio Lower Upper
88 100
43 500.0 0.0 0.0#
58 70.6 61.7 92.5



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

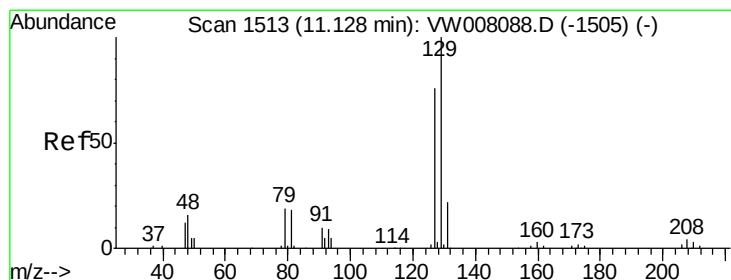
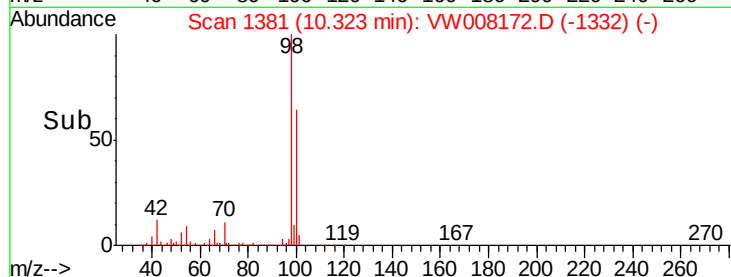
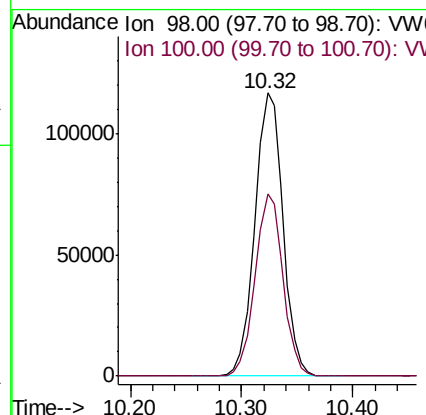
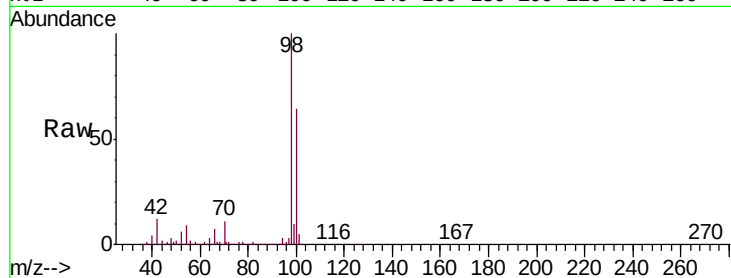




#50
Toluene-d8
Concen: 52.250 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

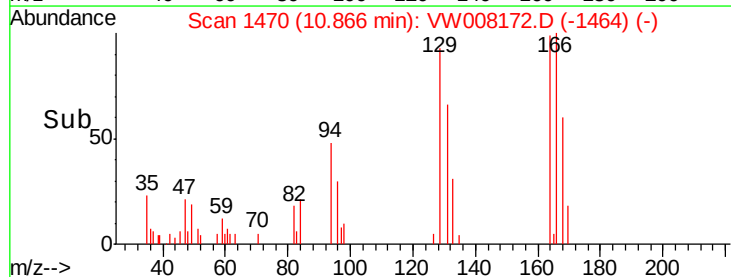
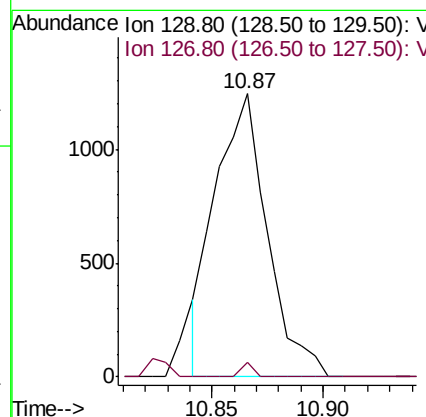
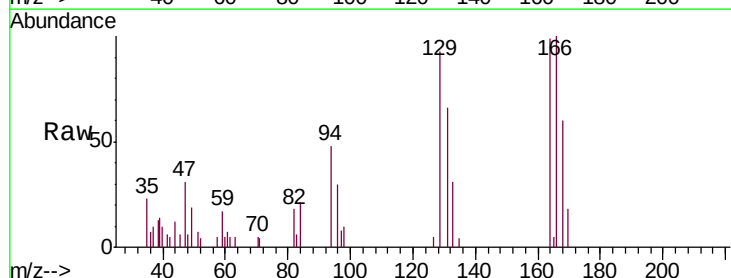
Instrument :
MSVOA_W
ClientSampleId :
HR-06-010918-ARE

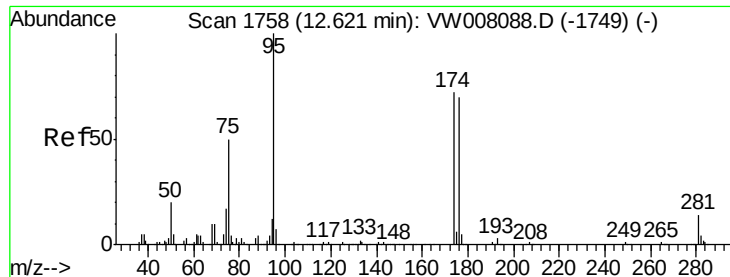
Tgt Ion: 98 Resp: 205297
Ion Ratio Lower Upper
98 100
100 63.8 51.7 77.5



#60
Dibromochloromethane
Concen: 2.406 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. -0.26 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

Tgt Ion: 129 Resp: 2026
Ion Ratio Lower Upper
129 100
127 1.2 38.9 116.6#

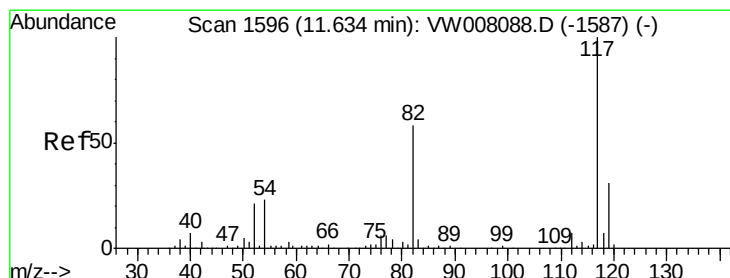
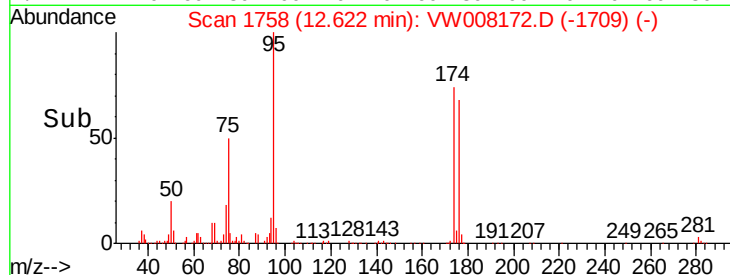
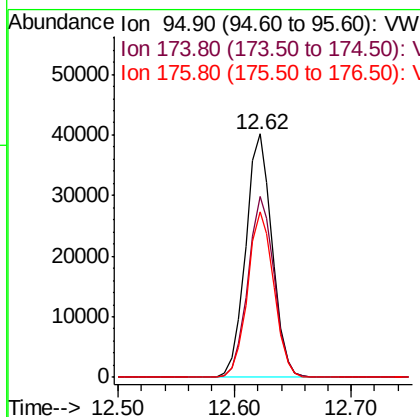
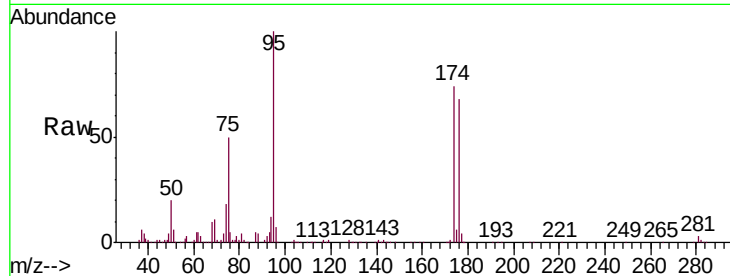




#62
4-Bromofluorobenzene
Concen: 45.159 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

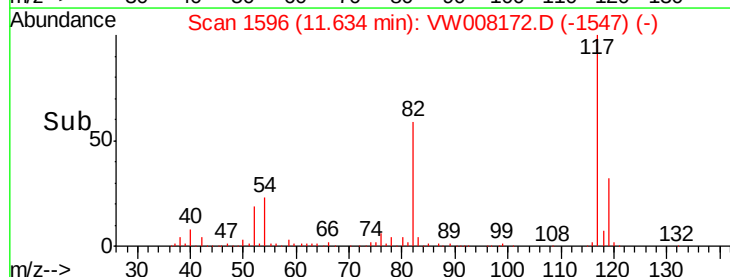
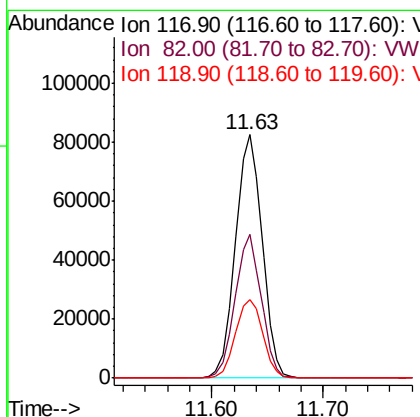
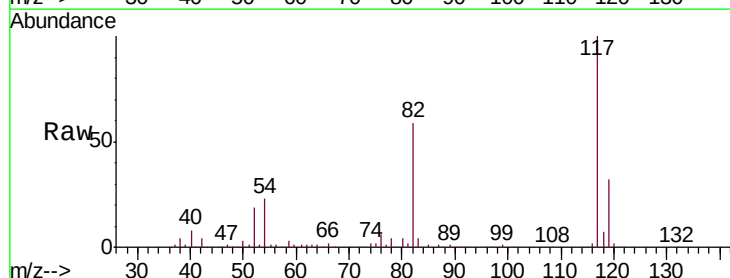
Instrument :
MSVOA_W
ClientSampleId :
HR-06-010918-ARE

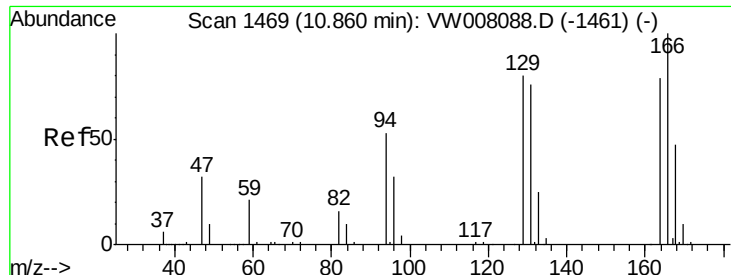
Tgt Ion: 95 Resp: 63611
Ion Ratio Lower Upper
95 100
174 73.9 0.0 143.0
176 67.7 0.0 140.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

Tgt Ion: 117 Resp: 137295
Ion Ratio Lower Upper
117 100
82 59.0 46.4 69.6
119 32.3 24.7 37.1





#64

Tetrachloroethene

Concen: 2.798 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW008172.D

Acq: 11 Jan 2019 03:20

Instrument :

MSVOA_W

ClientSampleId :

HR-06-010918-ARE

Tgt Ion:164 Resp: 2500

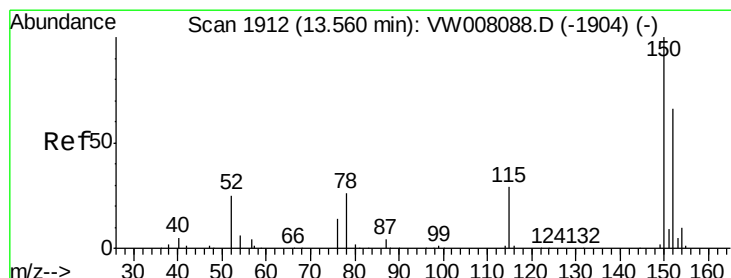
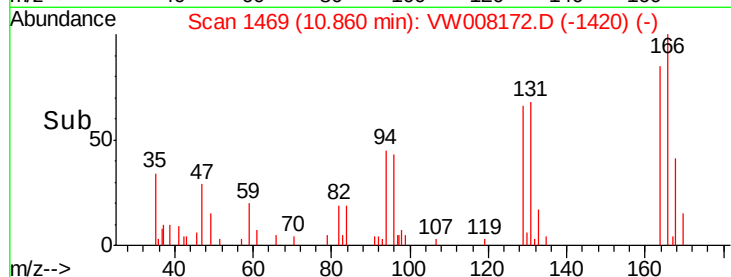
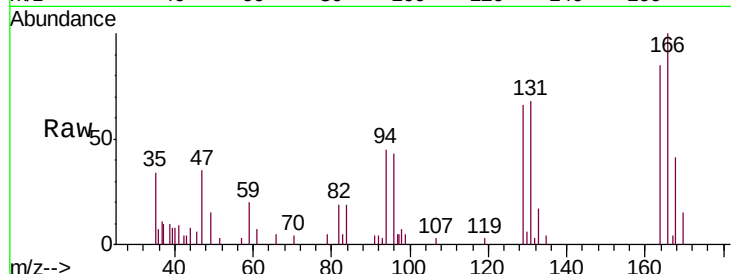
Ion Ratio Lower Upper

164 100

166 117.3 100.7 151.1

129 77.5 81.0 121.4#

131 79.7 76.1 114.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008172.D

Acq: 11 Jan 2019 03:20

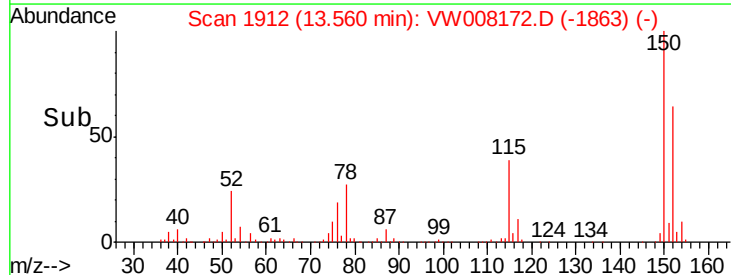
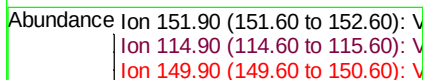
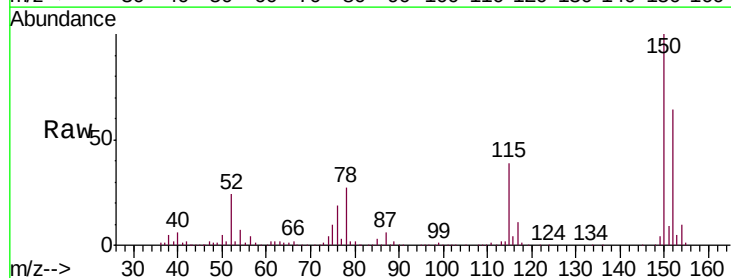
Tgt Ion:152 Resp: 55549

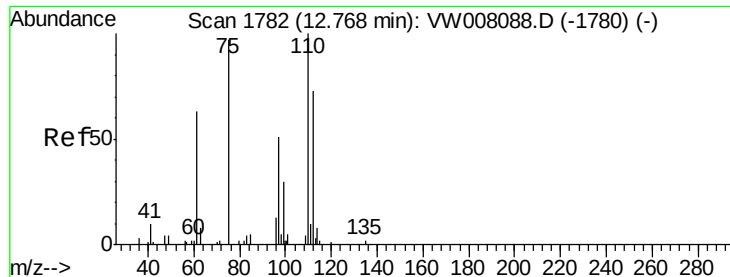
Ion Ratio Lower Upper

152 100

115 61.2 30.8 92.4

150 156.4 0.0 350.2





#76

1,2,3-Trichloropropane

Concen: 62.440 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008172.D

Acq: 11 Jan 2019 03:20

Instrument :

MSVOA_W

ClientSampleId :

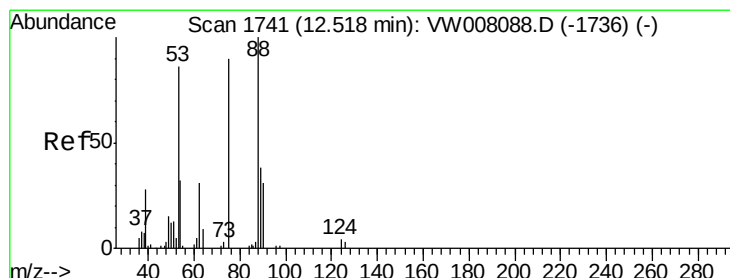
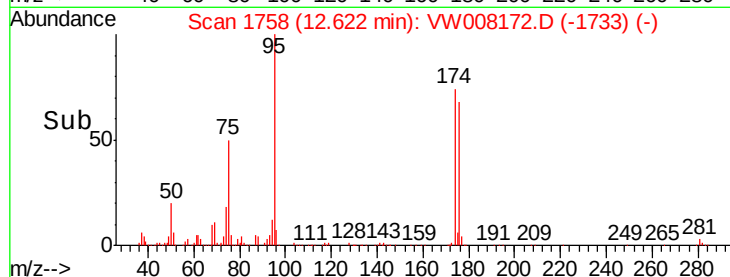
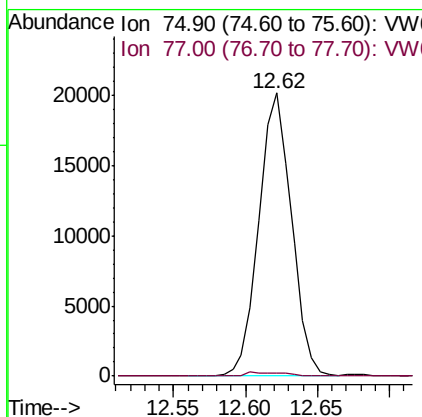
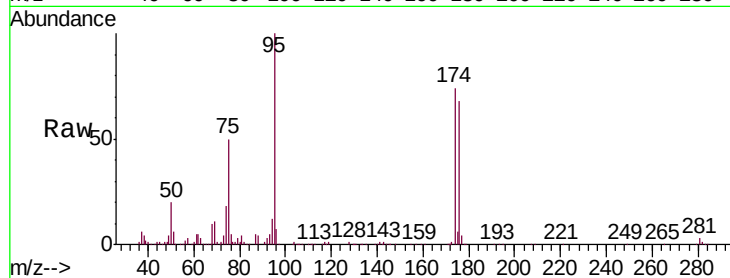
HR-06-010918-ARE

Tgt Ion: 75 Resp: 31619

Ion Ratio Lower Upper

75 100

77 1.6 179.4 538.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 145.404 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008172.D

Acq: 11 Jan 2019 03:20

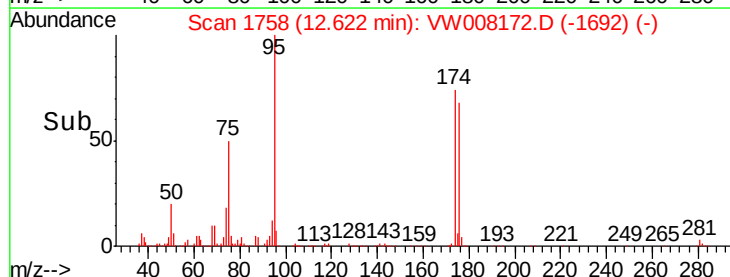
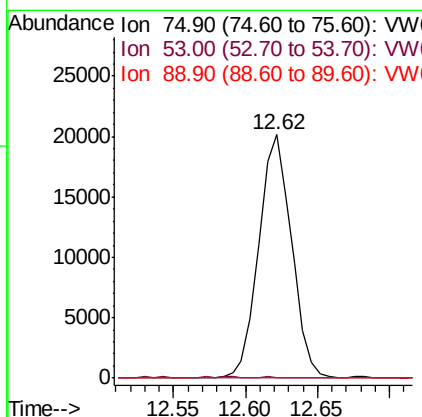
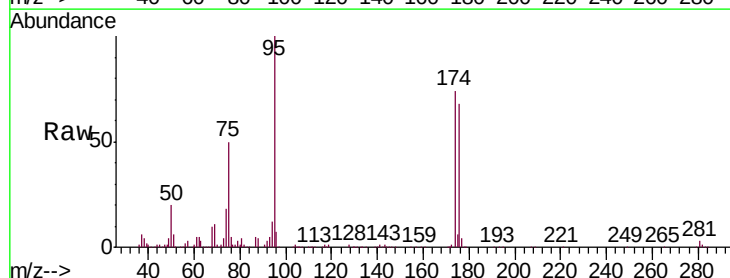
Tgt Ion: 75 Resp: 31619

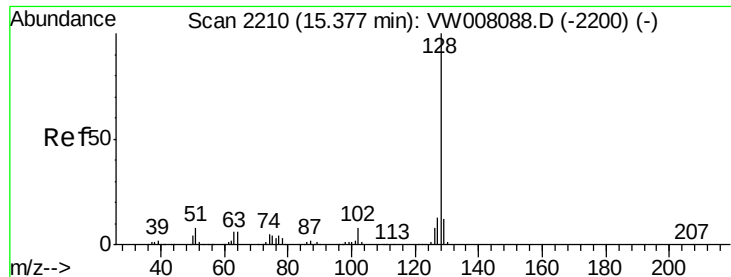
Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

89 0.0 35.4 53.2#

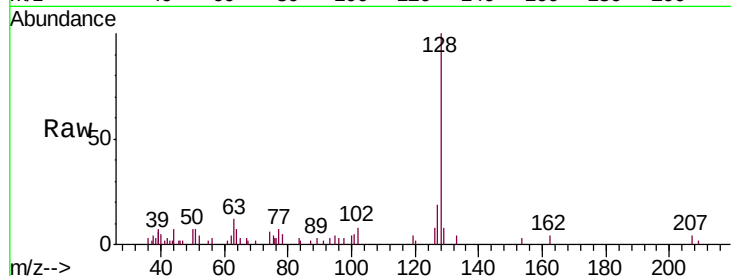




#95
Naphthalene
Concen: 2.672 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.01 min
Lab File: VW008172.D
Acq: 11 Jan 2019 03:20

Instrument :
MSVOA_W
ClientSampleId :
HR-06-010918-ARE

Tgt Ion:128 Resp: 5441
Ion Ratio Lower Upper
128 100
127 16.7 11.0 16.4#
129 10.9 9.0 13.6



Abundance Ion 128.00 (127.70 to 128.70): V
4000 Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

