

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101918\
 Data File : VW006235.D
 Acq On : 19 Oct 2018 19:38
 Operator : VA/AP
 Sample : J5197-03
 Misc : 6.95G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-101918

Quant Time: Oct 20 01:21:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 18 17:01:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	212714	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	316112	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	244459	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	91828	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	96806	54.89	ug/l	0.00
Spiked Amount			Recovery	=	109.78%	
35) Dibromofluoromethane	7.89	113	93688	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
50) Toluene-d8	10.33	98	315146	44.35	ug/l	0.00
Spiked Amount			Recovery	=	88.70%	
62) 4-Bromofluorobenzene	12.62	95	93099	34.88	ug/l	0.00
Spiked Amount			Recovery	=	69.76%	

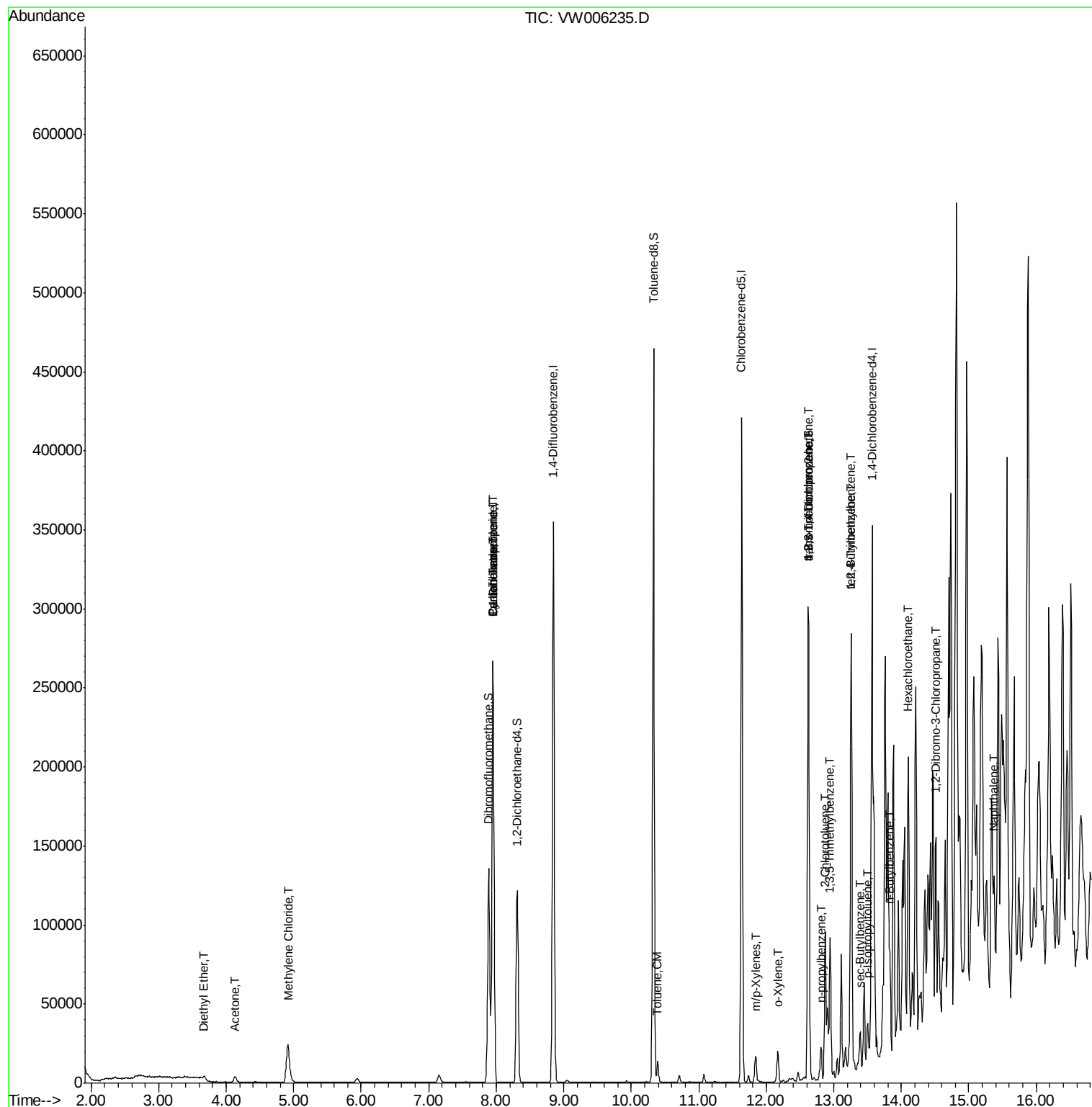
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	1645	1.717	ug/l	68
16) Acetone	4.12	43	6546	5.295	ug/l	99
20) Methylene Chloride	4.92	84	20961	9.929	ug/l	93
31) Cyclohexane	7.95	56	4059	1.258	ug/l #	7
36) 1,1-Dichloropropene	7.95	75	13928	4.780	ug/l #	48
38) Carbon Tetrachloride	7.95	117	19382	6.068	ug/l #	18
52) Toluene	10.39	92	5717	1.067	ug/l	98
68) m/p-Xylenes	11.84	106	5013	1.398	ug/l	92
69) o-Xylene	12.17	106	5425	1.588	ug/l	95
76) 1,2,3-Trichloropropane	12.62	75	46718	66.608	ug/l #	100
78) n-propylbenzene	12.81	91	16553	2.193	ug/l	97
79) 2-Chlorotoluene	12.87	91	7038	1.660	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.95	105	35132	6.424	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	46718	159.220	ug/l #	10
83) tert-Butylbenzene	13.26	119	19568	3.999	ug/l #	67
84) 1,2,4-Trimethylbenzene	13.26	105	153943	27.817	ug/l	98
85) sec-Butylbenzene	13.39	105	15197	2.198	ug/l	88
86) p-Isopropyltoluene	13.51	119	11703	1.872	ug/l	98
89) n-Butylbenzene	13.83	91	31692	5.542	ug/l #	78
90) Hexachloroethane	14.10	117	9173	8.661	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.51	75	305	1.726	ug/l #	1
95) Naphthalene	15.38	128	32972	9.132	ug/l	95

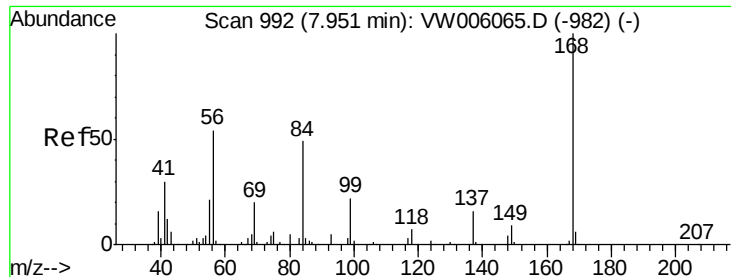
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 20 01:21:28 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 18 17:01:24 2018
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: VW006235.D

Acq: 19 Oct 2018 19:38

Instrument :

MSVOA_W

ClientSampled :

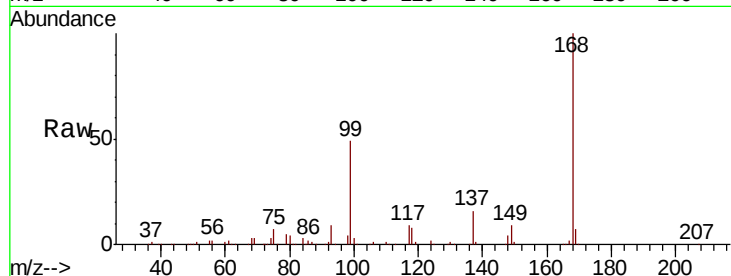
HD-02-101918

Tot Ion:168 Resp: 212714

Ion Ratio Lower Upper

168 100

99 49.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

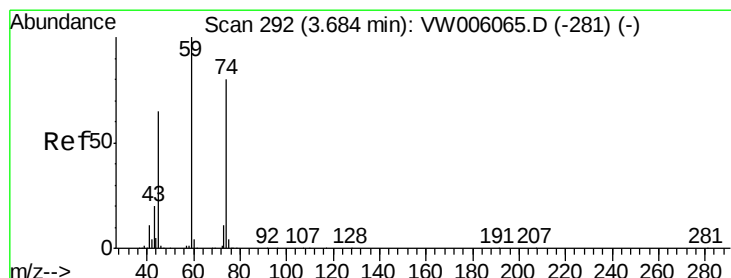
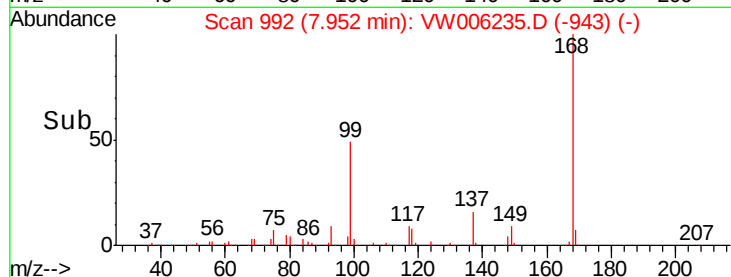
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.717 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW006235.D

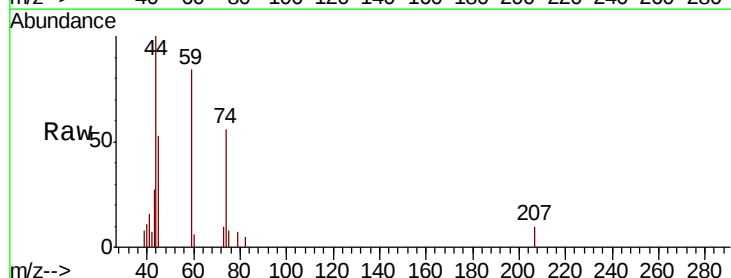
Acq: 19 Oct 2018 19:38

Tgt Ion: 74 Resp: 1645

Ion Ratio Lower Upper

74 100

45 114.4 42.8 128.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

800

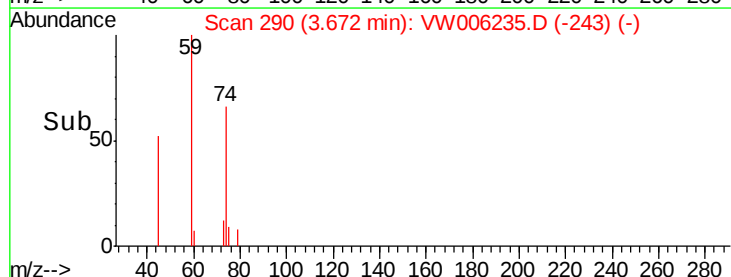
600

400

200

0

Time-->





#16

Acetone

Concen: 5.295 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.02 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

Instrument :

MSVOA_W

ClientSampleId :

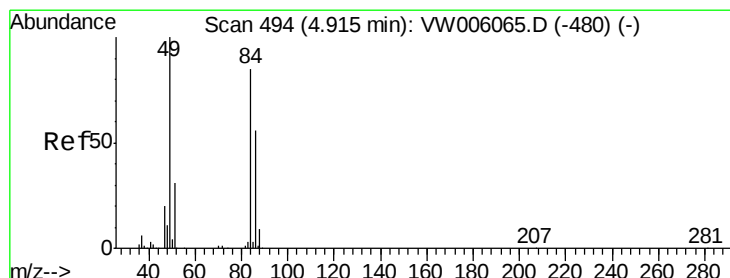
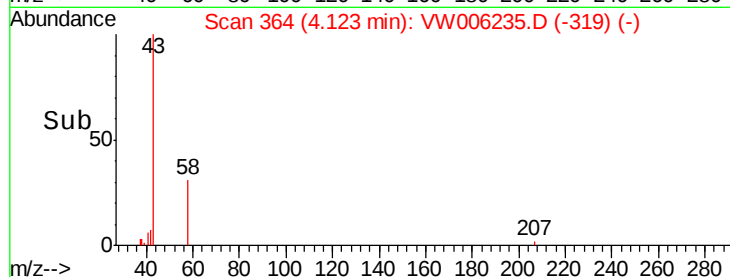
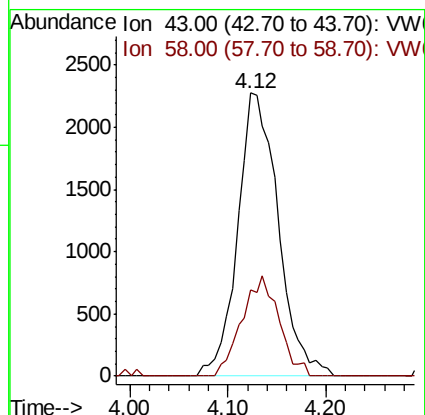
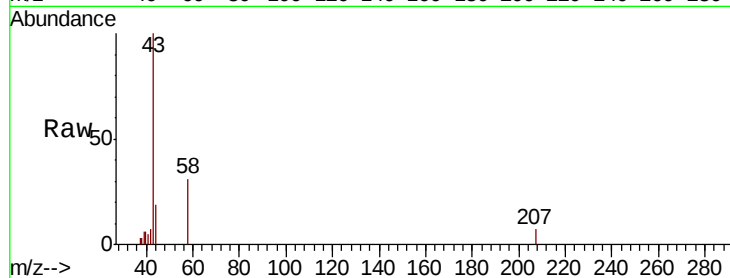
HD-02-101918

Tot Ion: 43 Resp: 6546

Ion Ratio Lower Upper

43 100

58 30.5 24.0 36.0



#20

Methylene Chloride

Concen: 9.929 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

Tgt Ion: 84 Resp: 20961

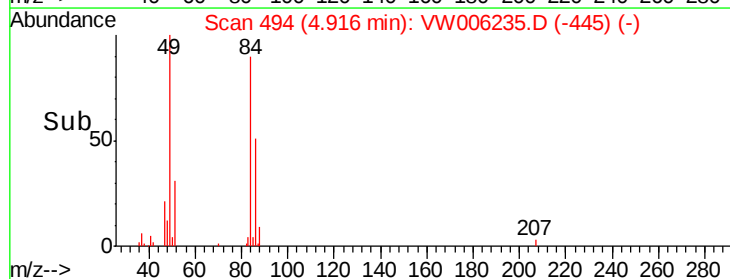
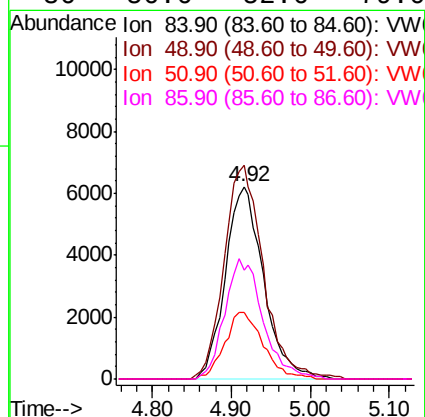
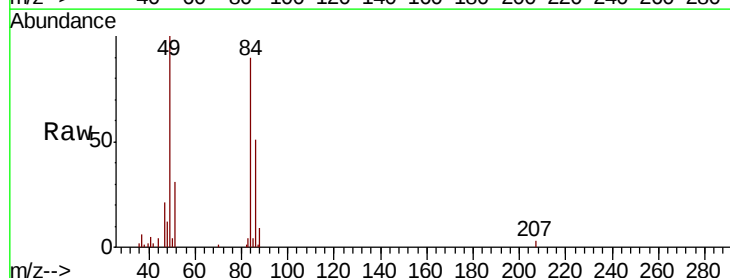
Ion Ratio Lower Upper

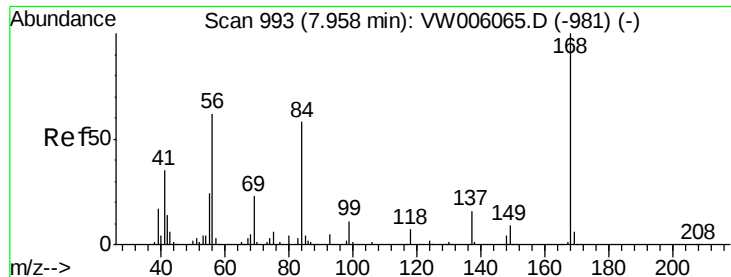
84 100

49 111.1 93.6 140.4

51 34.4 29.0 43.4

86 56.6 52.6 79.0

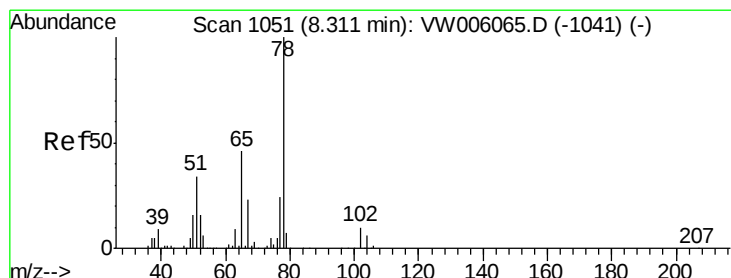
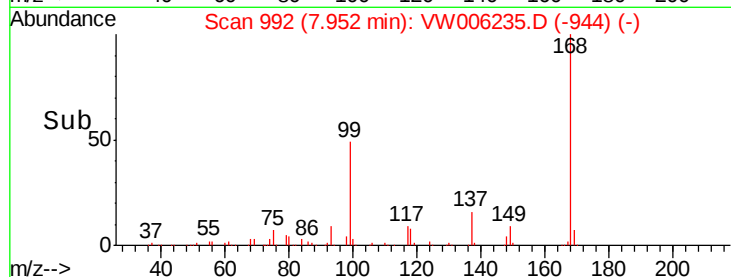
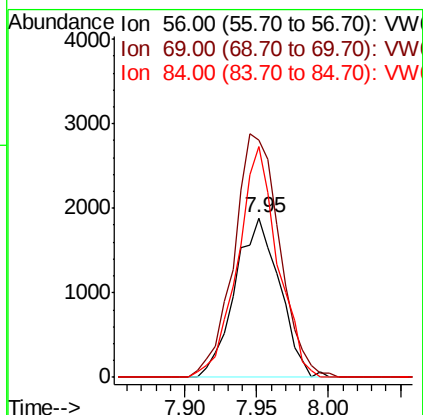
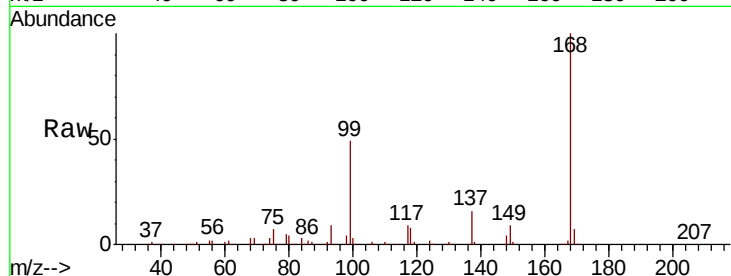




#31
Cyclohexane
Concen: 1.258 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW006235.D
Acq: 19 Oct 2018 19:38

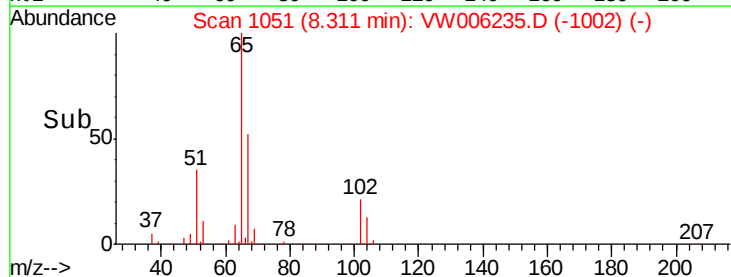
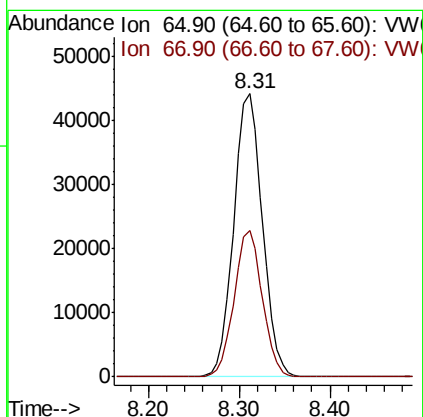
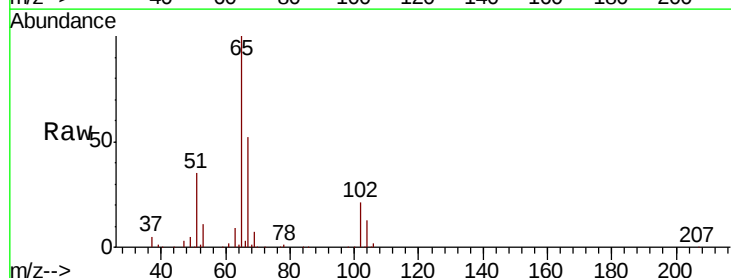
Instrument :
MSVOA_W
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HD-02-101918

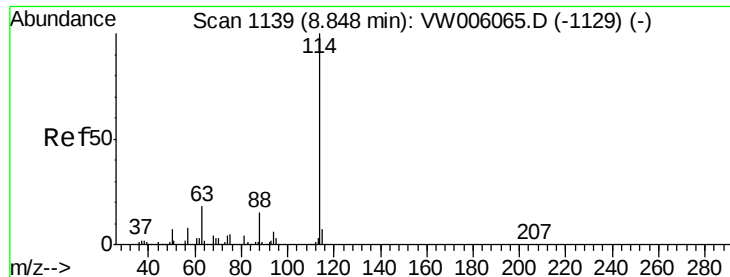
Tot Ion	56	Resp	4059
Ion Ratio	Lower	Upper	
56	100		
69	149.2	29.4	44.0#
84	144.7	74.0	111.0#



#33
1,2-Dichloroethane-d4
Concen: 54.894 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VW006235.D
Acq: 19 Oct 2018 19:38

Tgt Ion	65	Resp	96806
Ion Ratio	Lower	Upper	
65	100		
67	50.9	0.0	101.0

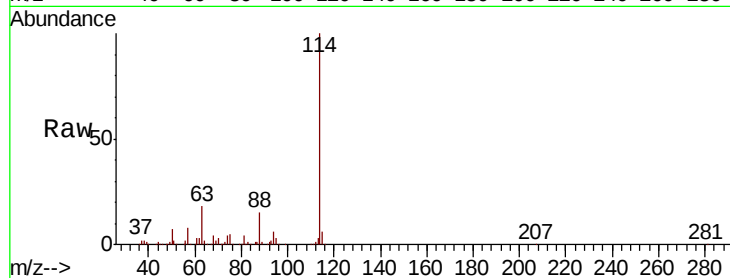




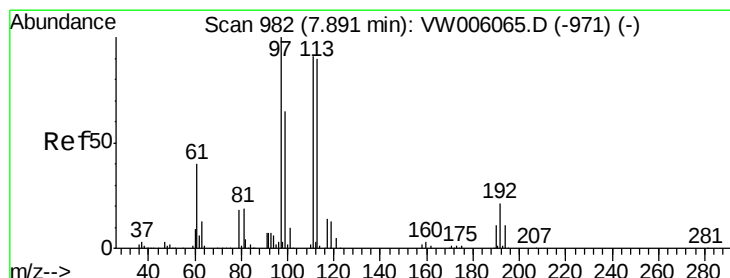
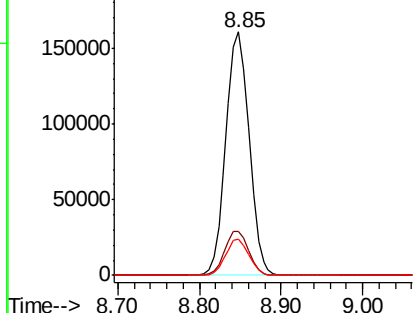
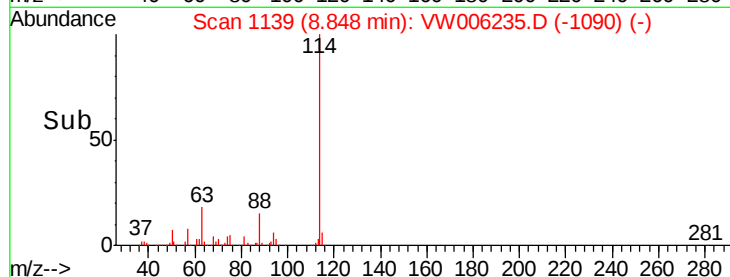
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW006235.D
 Acq: 19 Oct 2018 19:38

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-101918

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	36.8
88	15.0	0.0	29.0

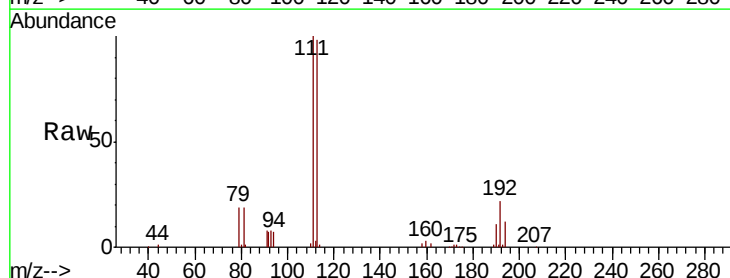


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

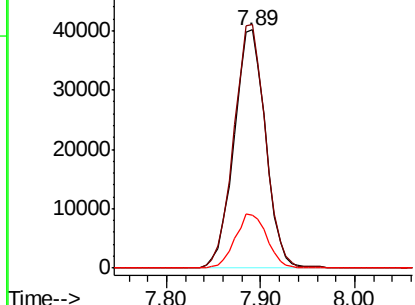
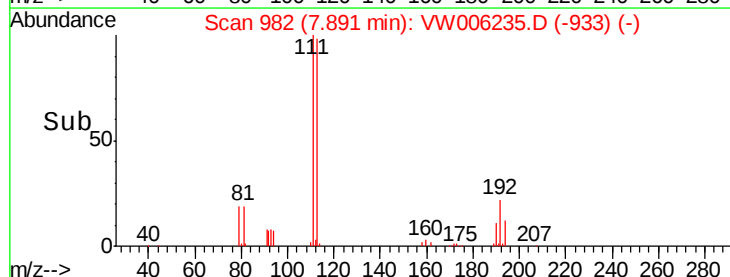


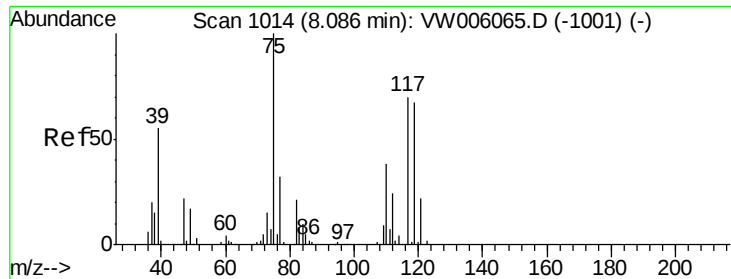
#35
 Dibromofluoromethane
 Concen: 50.157 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW006235.D
 Acq: 19 Oct 2018 19:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.4	122.0
192	22.9	18.7	28.1



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

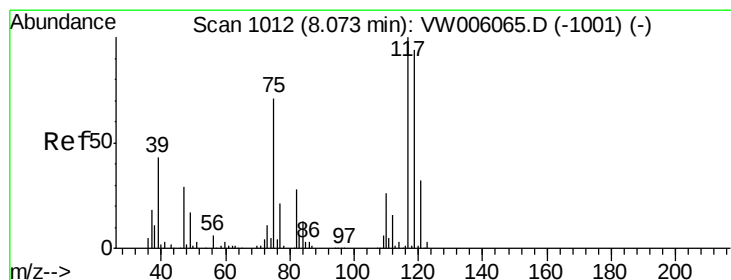
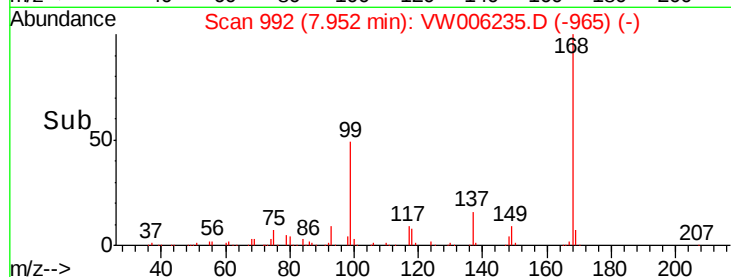
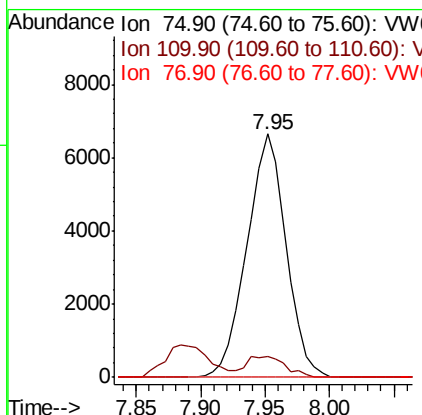
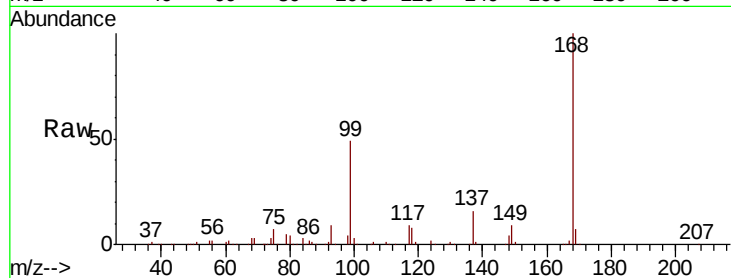




#36
 1,1-Dichloropropene
 Concen: 4.780 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW006235.D
 Acq: 19 Oct 2018 19:38

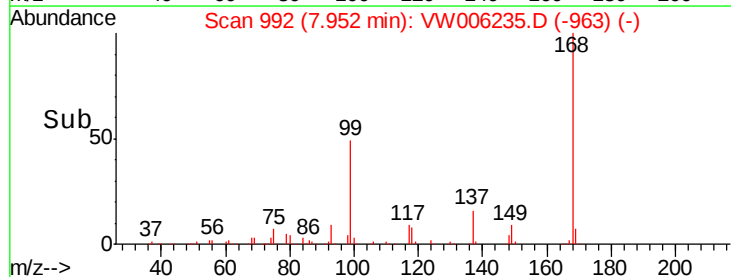
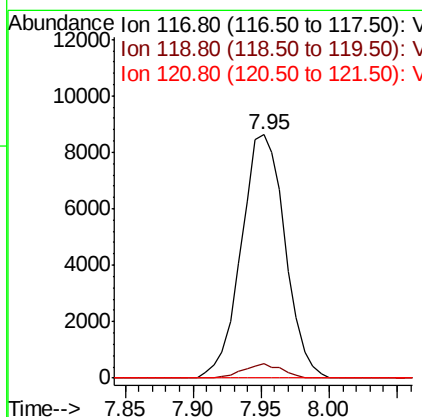
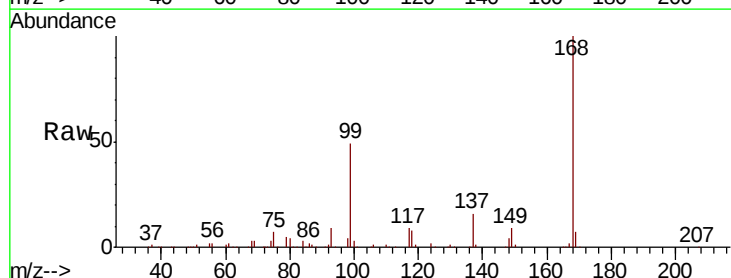
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 HD-02-101918

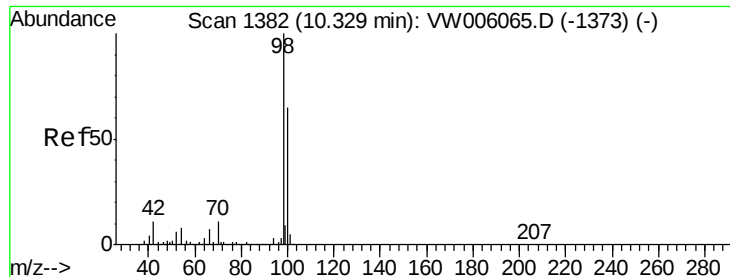
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	19.1	57.1#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.068 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW006235.D
 Acq: 19 Oct 2018 19:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	75.2	112.8#
121	0.0	25.3	37.9#





#50

Toluene-d8

Concen: 44.347 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

Instrument :

MSVOA_W

ClientSampleId :

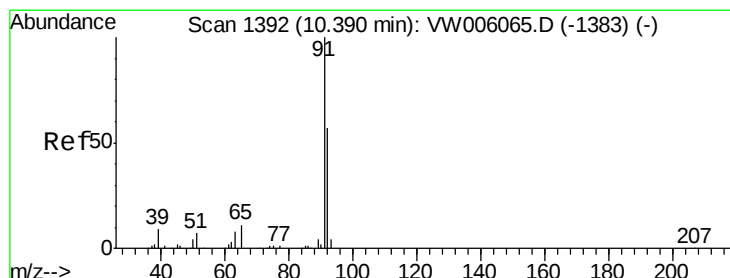
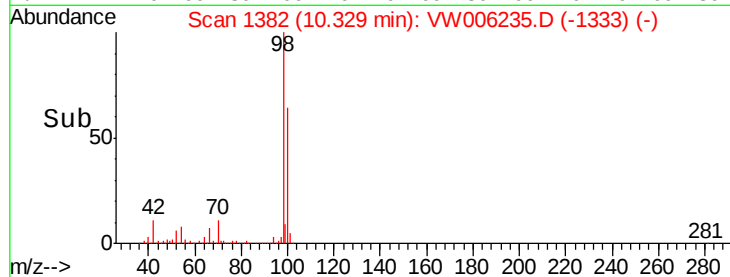
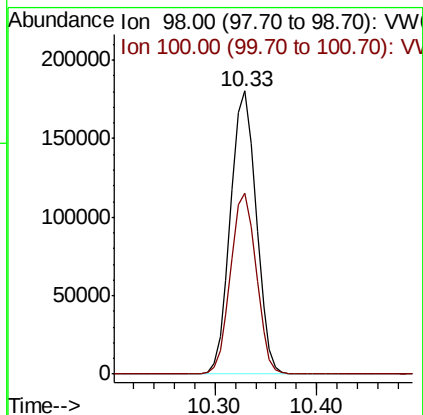
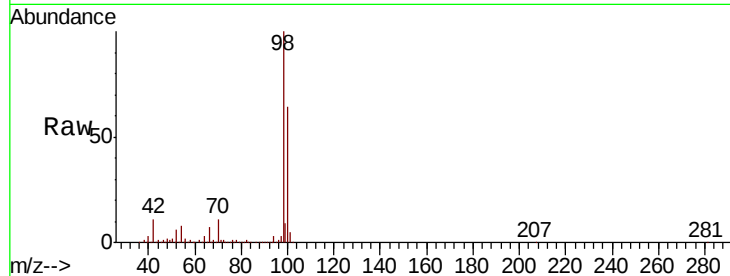
HD-02-101918

Tot Ion: 98 Resp: 315146

Ion Ratio Lower Upper

98 100

100 63.9 51.6 77.4



#52

Toluene

Concen: 1.067 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW006235.D

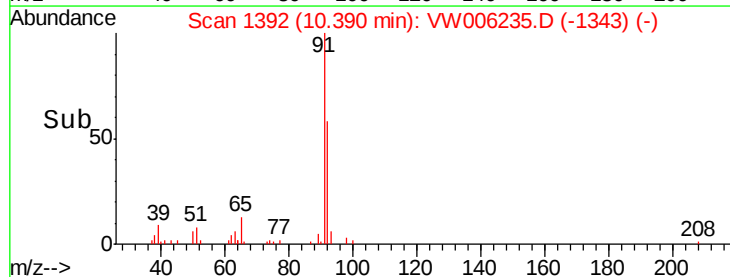
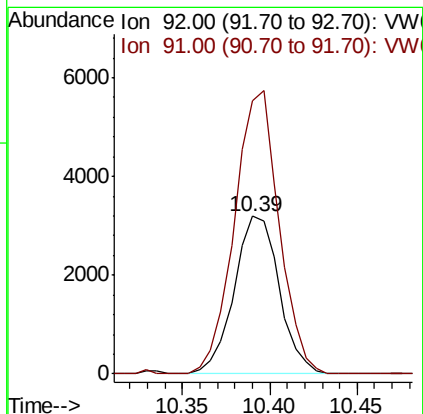
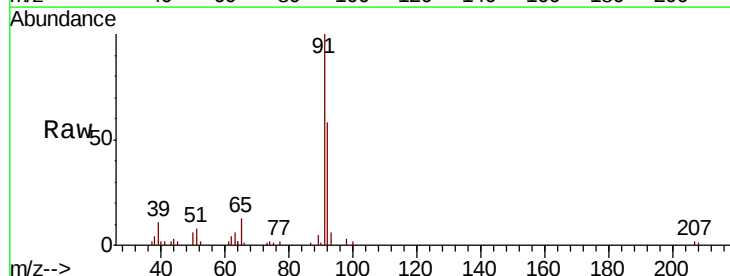
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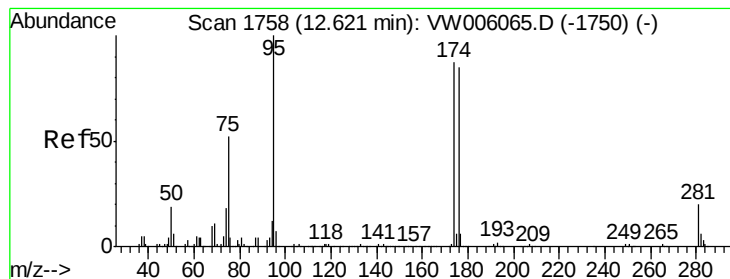
Tgt Ion: 92 Resp: 5717

Ion Ratio Lower Upper

92 100

91 177.4 140.0 210.0





#62

4-Bromofluorobenzene

Concen: 34.881 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

Instrument :

MSVOA_W

ClientSampleId :

HD-02-101918

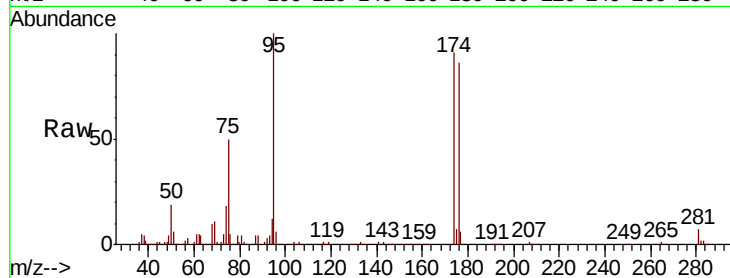
Tot Ion: 95 Resp: 93099

Ion Ratio Lower Upper

95 100

174 93.1 0.0 186.0

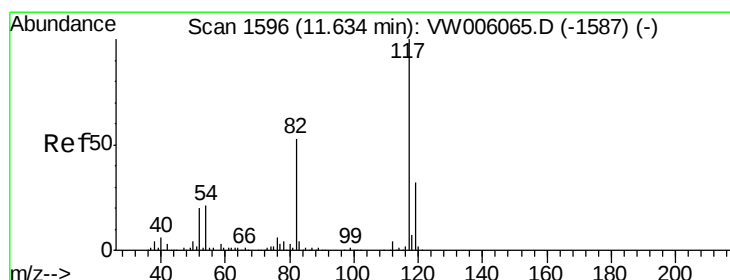
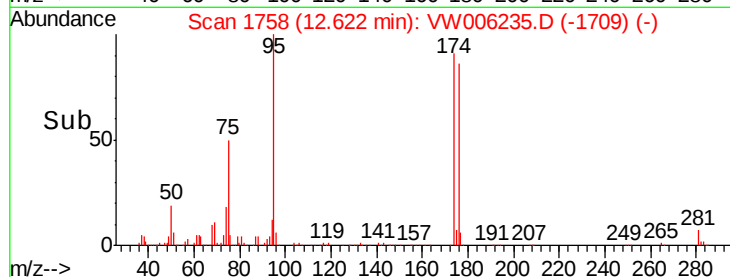
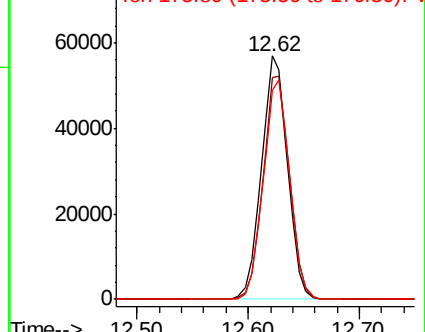
176 91.1 0.0 181.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

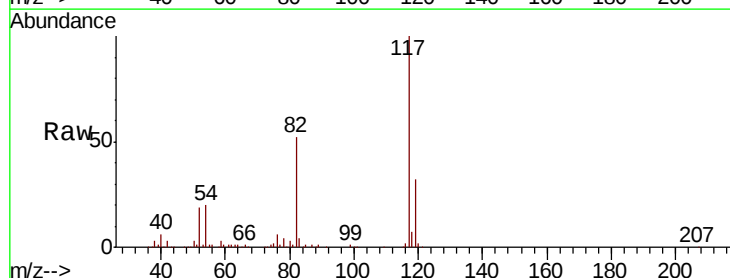
Tgt Ion: 117 Resp: 244459

Ion Ratio Lower Upper

117 100

82 52.3 42.1 63.1

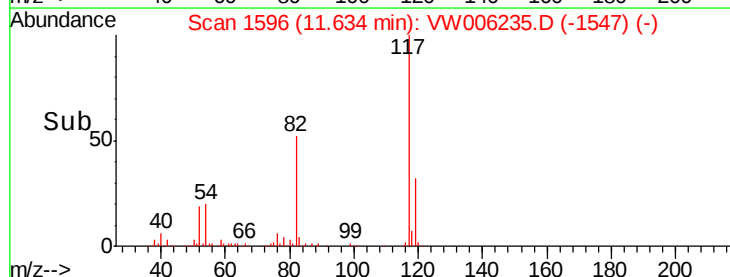
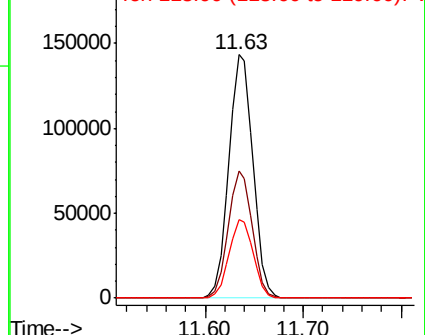
119 32.2 25.8 38.6

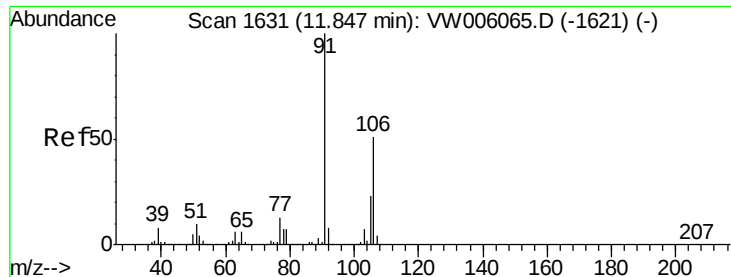


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

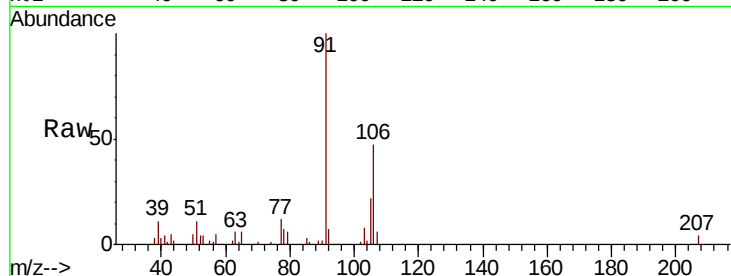




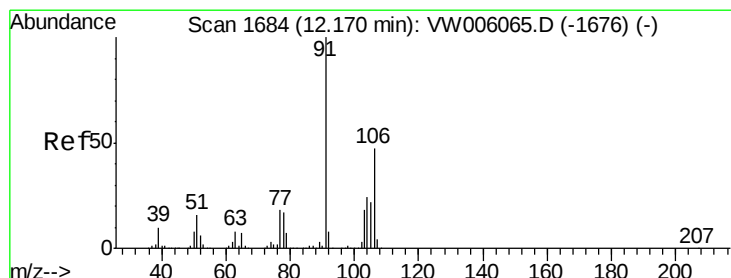
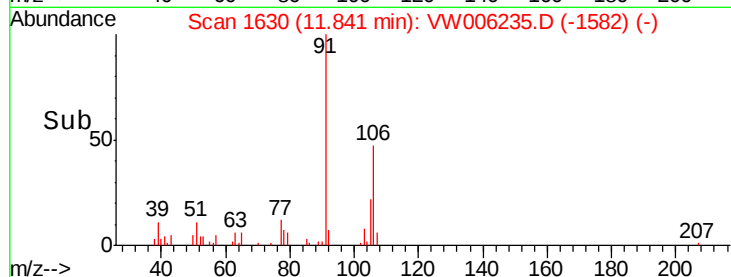
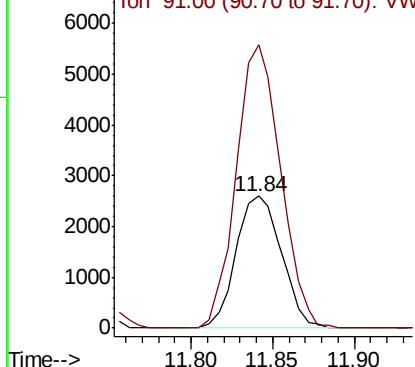
#68
m/p-Xylenes
Concen: 1.398 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.01 min
Lab File: VW006235.D
Acq: 19 Oct 2018 19:38

Instrument :
MSVOA_W
ClientSampleId :
HD-02-101918

Tot Ion:106 Resp: 5013
Ion Ratio Lower Upper
106 100
91 210.6 159.1 238.7

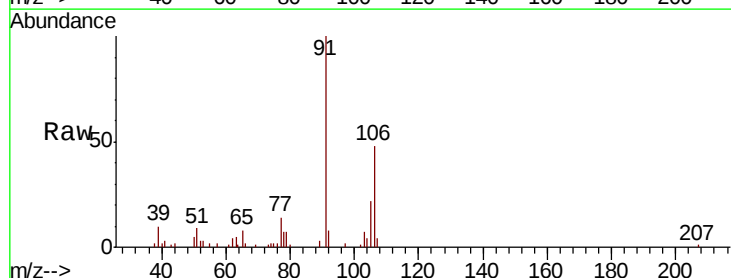


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW

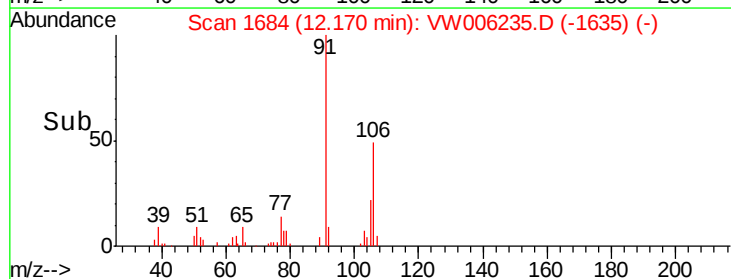
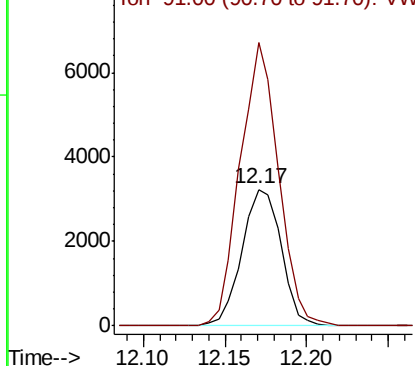


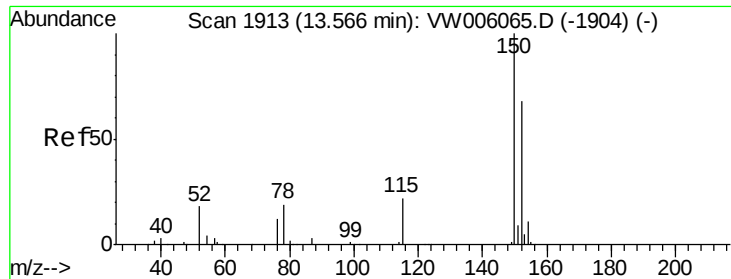
#69
o-Xylene
Concen: 1.588 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW006235.D
Acq: 19 Oct 2018 19:38

Tgt Ion:106 Resp: 5425
Ion Ratio Lower Upper
106 100
91 202.8 105.4 316.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

Instrument :

MSVOA_W

ClientSampleId :

HD-02-101918

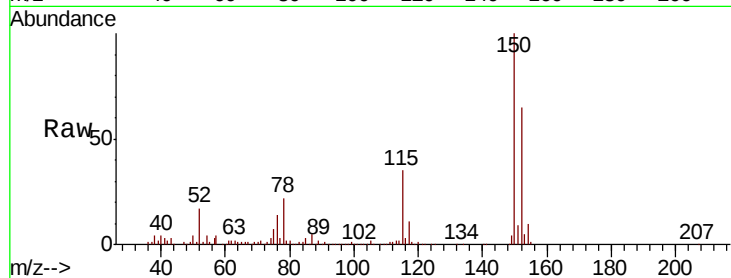
Tot Ion:152 Resp: 91828

Ion Ratio Lower Upper

152 100

115 59.0 27.8 83.3

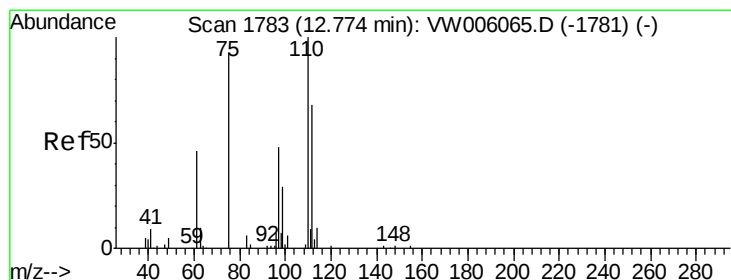
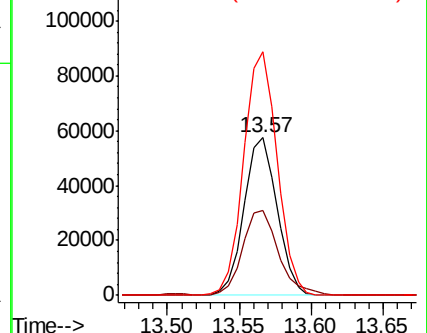
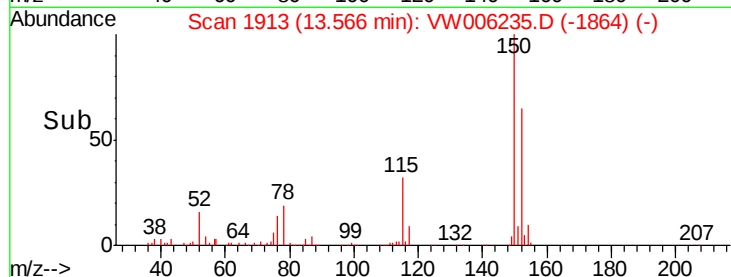
150 156.0 0.0 349.2



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: 66.608 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006235.D

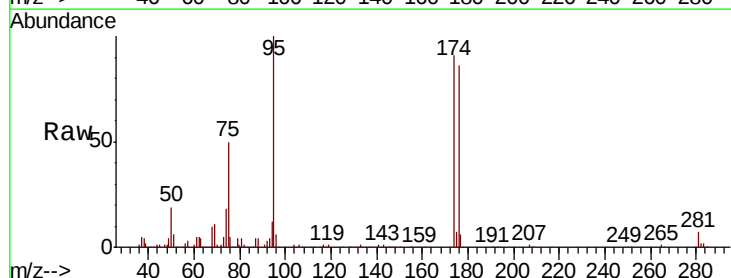
Acq: 19 Oct 2018 19:38

Tgt Ion: 75 Resp: 46718

Ion Ratio Lower Upper

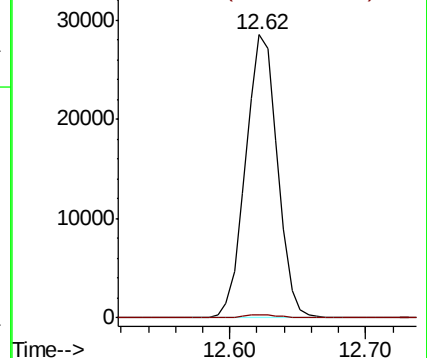
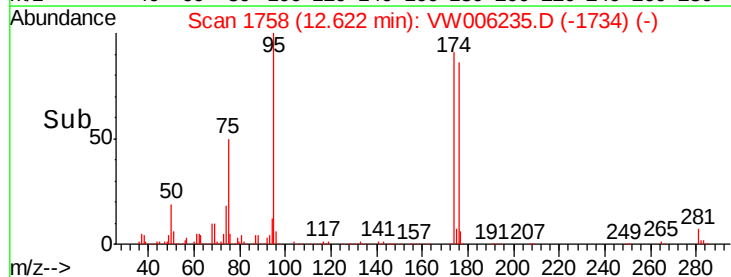
75 100

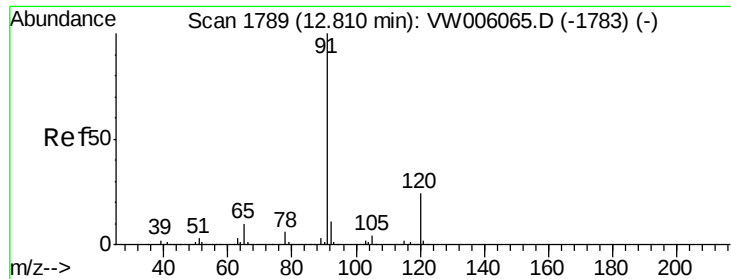
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#78

n-propylbenzene

Concen: 2.193 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

Instrument :

MSVOA_W

ClientSampleId :

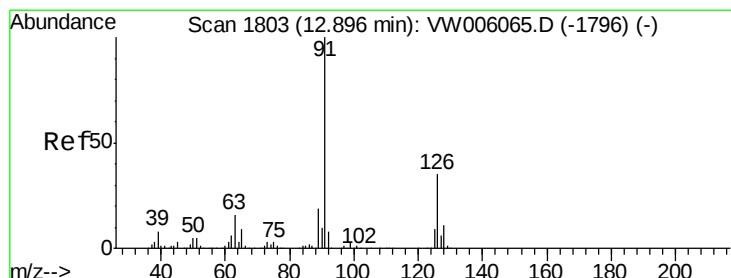
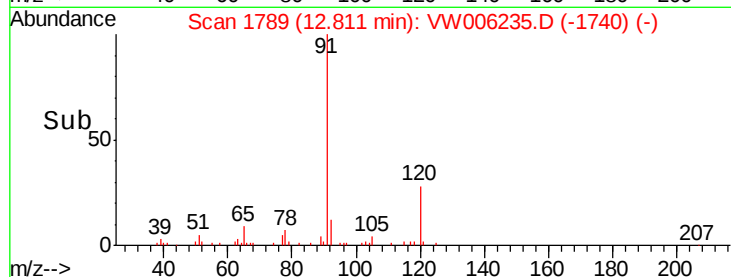
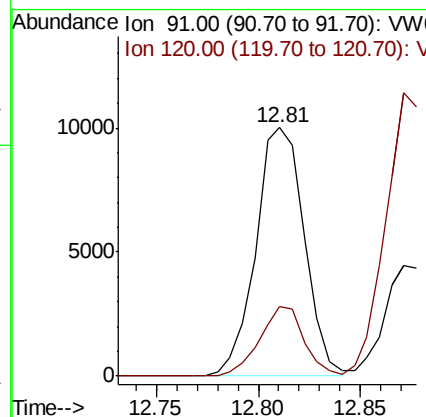
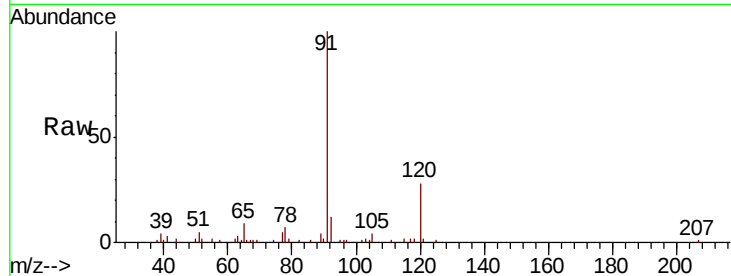
HD-02-101918

Tot Ion: 91 Resp: 16553

Ion Ratio Lower Upper

91 100

120 25.8 12.2 36.6



#79

2-Chlorotoluene

Concen: 1.660 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. -0.02 min

Lab File: VW006235.D

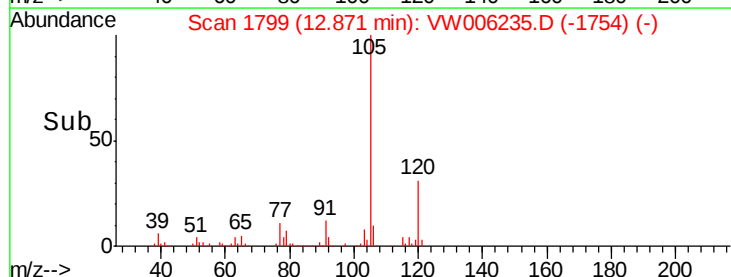
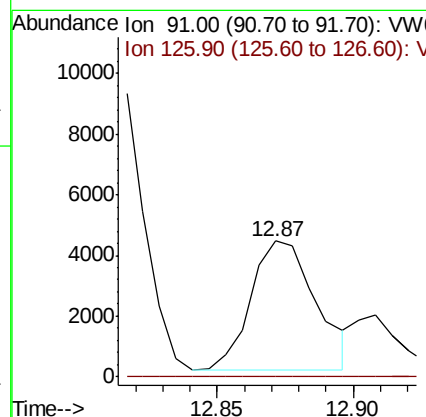
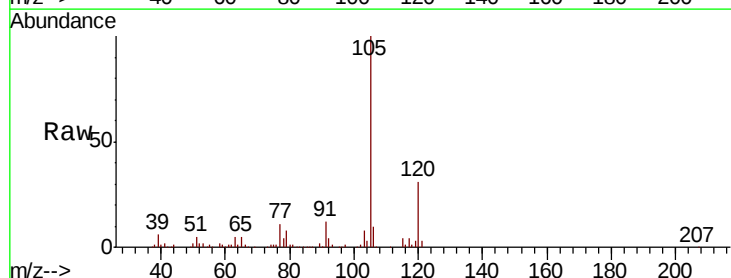
Acq: 19 Oct 2018 19:38

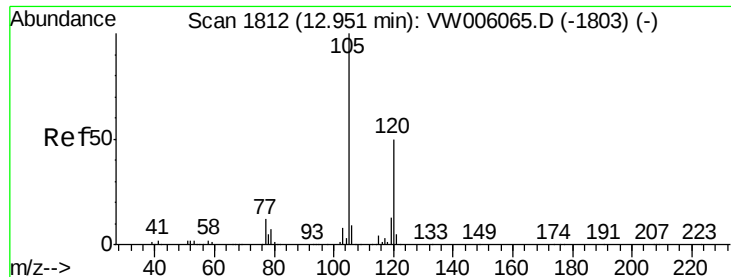
Tgt Ion: 91 Resp: 7038

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.8#

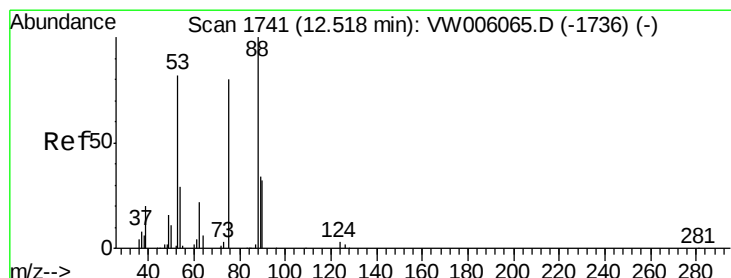
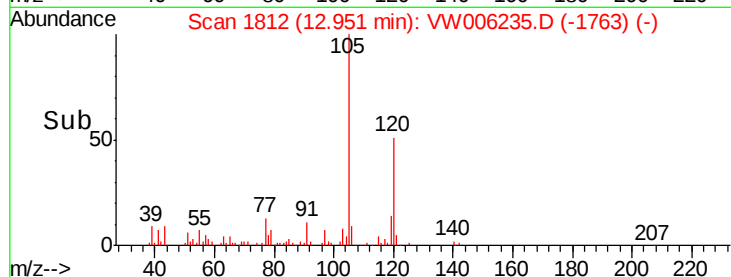
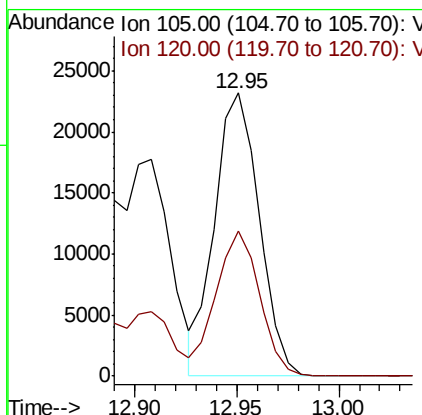
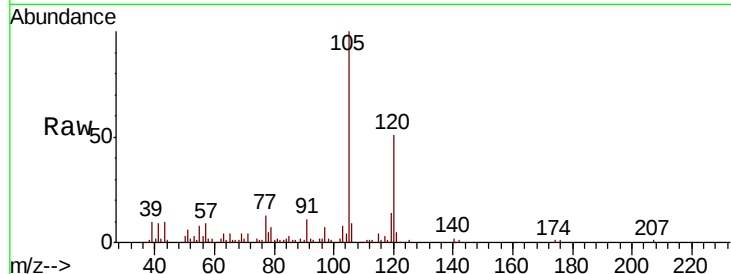




#80
 1,3,5-Trimethylbenzene
 Concen: 6.424 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.00 min
 Lab File: VW006235.D
 Acq: 19 Oct 2018 19:38

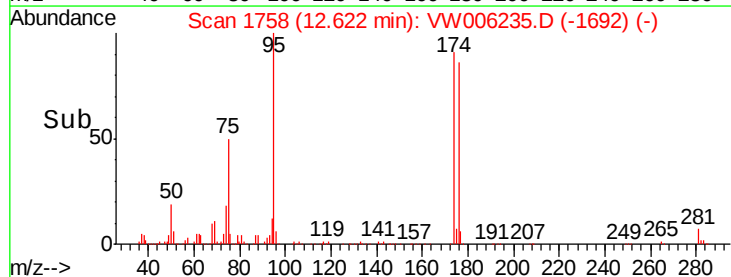
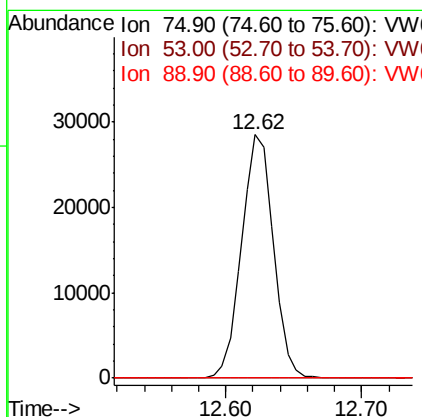
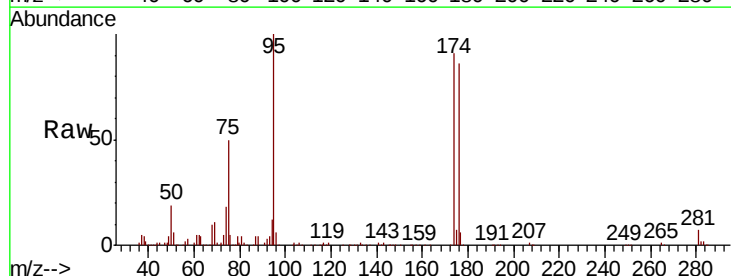
Instrument :
 MSVOA_W
 ClientSampled :
 HD-02-101918

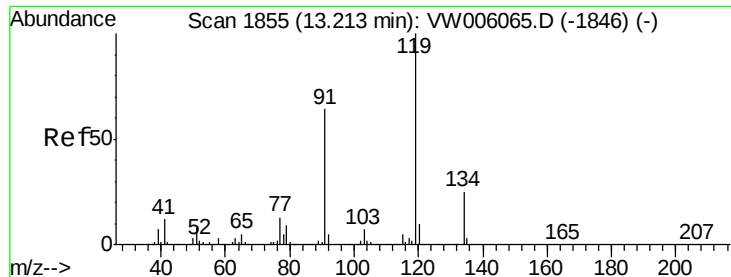
Tot Ion:105 Resp: 35132
 Ion Ratio Lower Upper
 105 100
 120 50.1 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 159.220 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW006235.D
 Acq: 19 Oct 2018 19:38

Tgt Ion: 75 Resp: 46718
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.8 119.6#
 89 0.1 37.5 56.3#

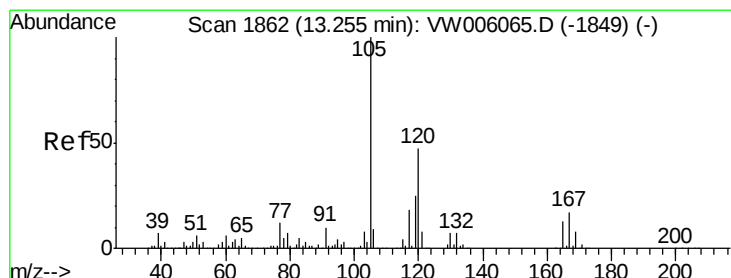
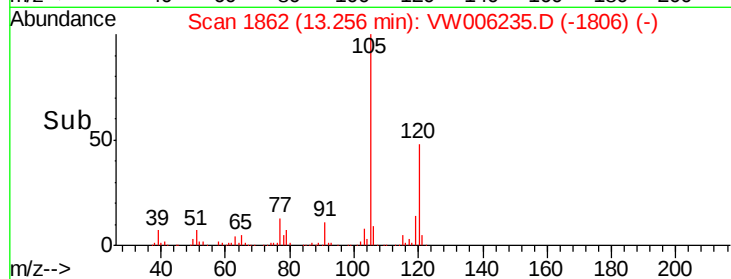
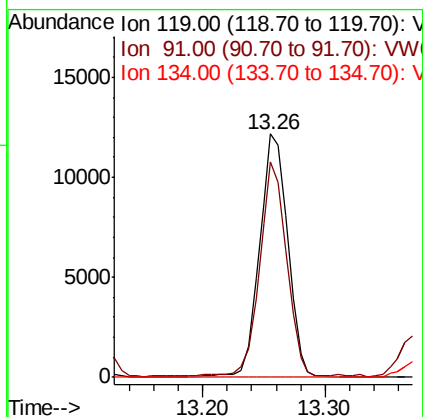
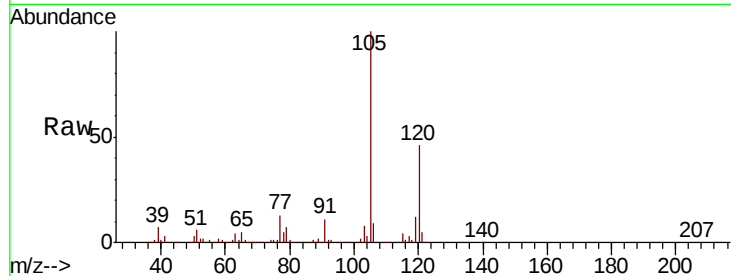




#83
tert-Butylbenzene
Concen: 3.999 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.04 min
Lab File: VW006235.D
Acq: 19 Oct 2018 19:38

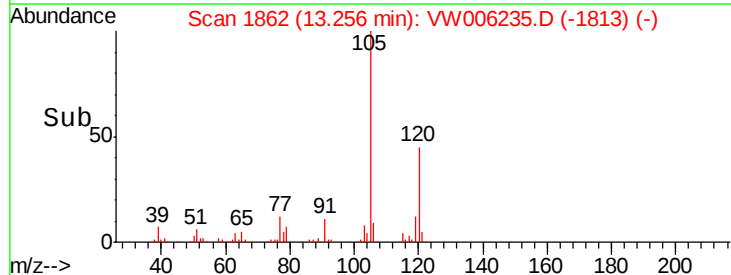
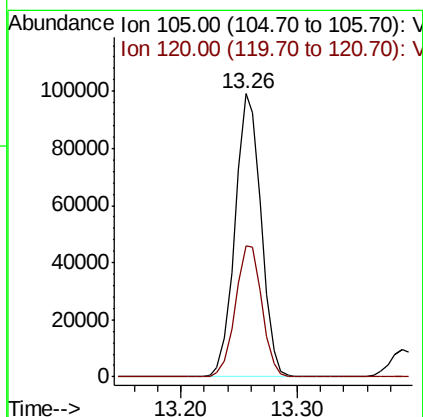
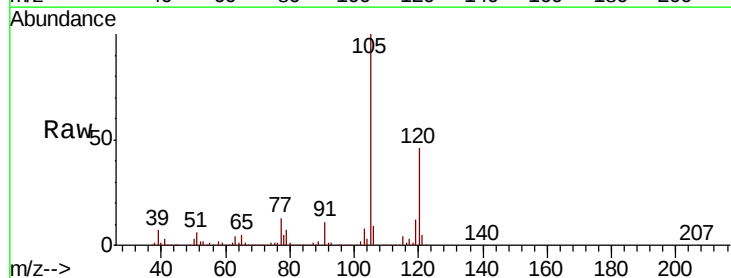
Instrument :
MSVOA_W
ClientSampleId :
HD-02-101918

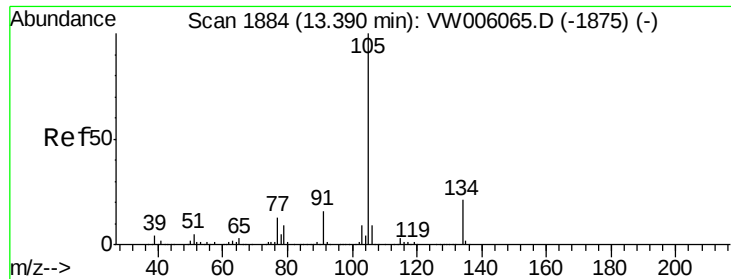
Tot Ion:119 Resp: 19568
Ion Ratio Lower Upper
119 100
91 83.8 32.3 96.9
134 0.0 13.6 40.8#



#84
1,2,4-Trimethylbenzene
Concen: 27.817 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW006235.D
Acq: 19 Oct 2018 19:38

Tgt Ion:105 Resp: 153943
Ion Ratio Lower Upper
105 100
120 47.3 23.1 69.3





#85

sec-Butylbenzene

Concen: 2.198 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

Instrument :

MSVOA_W

ClientSampleId :

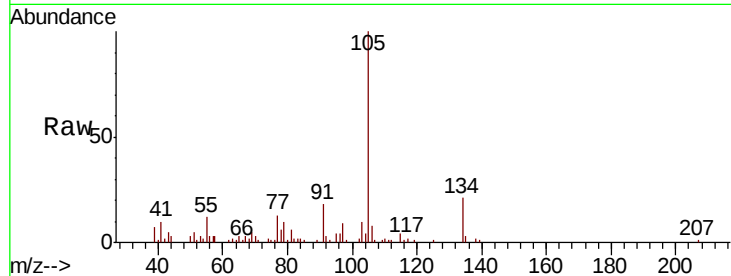
HD-02-101918

Tot Ion:105 Resp: 15197

Ion Ratio Lower Upper

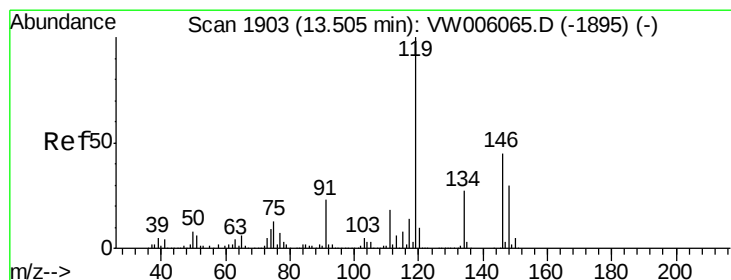
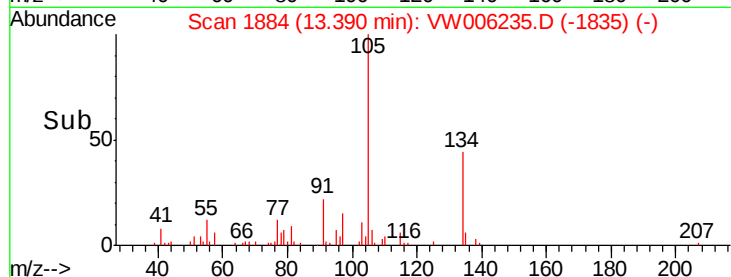
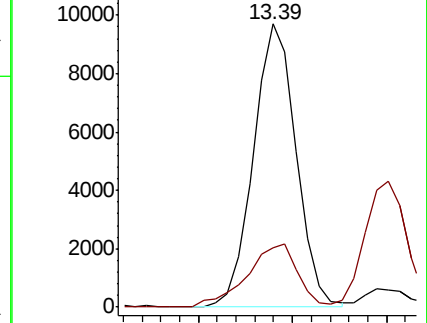
105 100

134 26.6 10.5 31.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.872 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

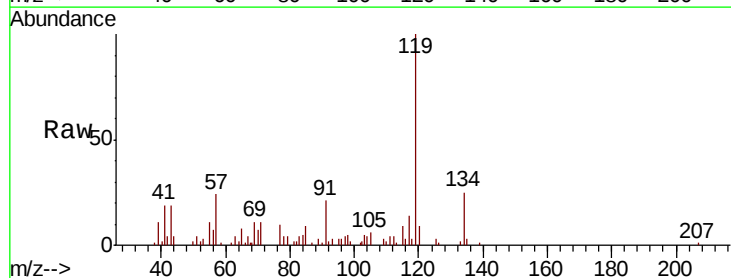
Tgt Ion:119 Resp: 11703

Ion Ratio Lower Upper

119 100

134 26.4 13.4 40.2

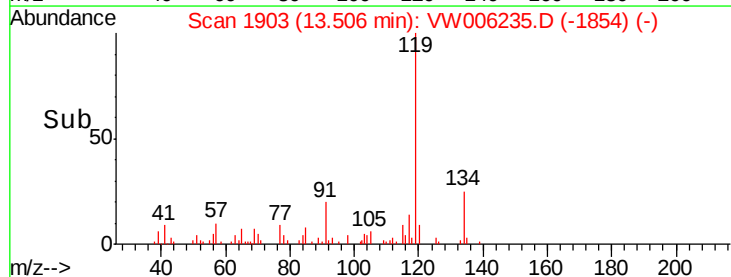
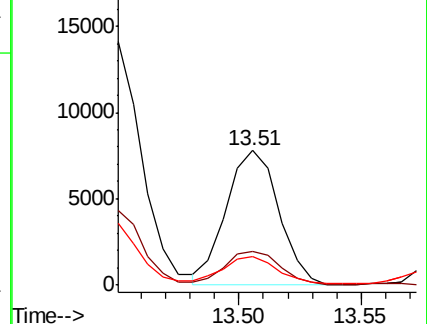
91 21.1 11.4 34.1

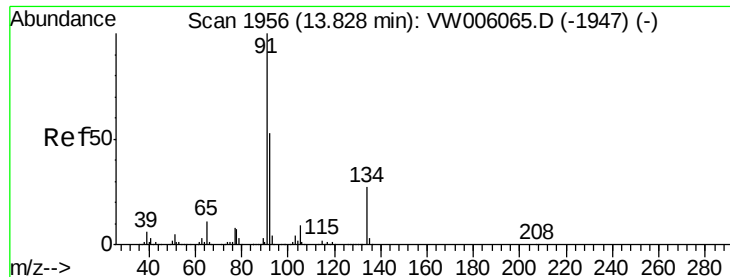


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 5.542 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

Instrument :

MSVOA_W

ClientSampleId :

HD-02-101918

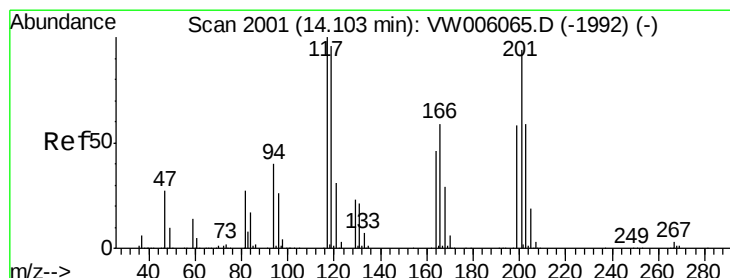
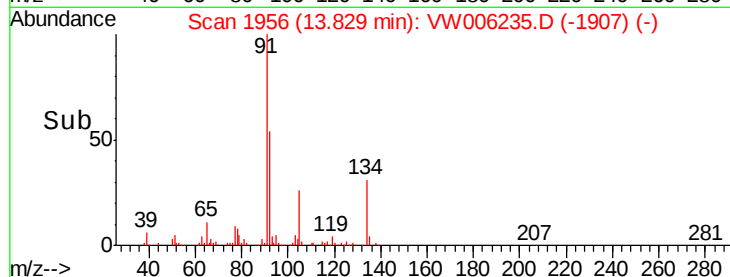
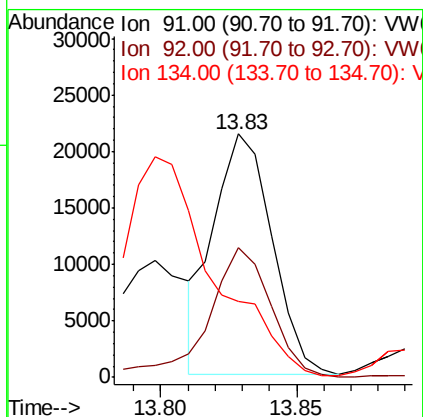
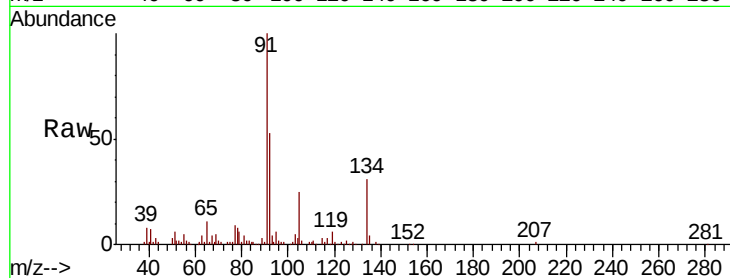
Tot Ion: 91 Resp: 31692

Ion Ratio Lower Upper

91 100

92 56.7 26.6 79.7

134 0.0 14.0 41.9#



#90

Hexachloroethane

Concen: 8.661 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.00 min

Lab File: VW006235.D

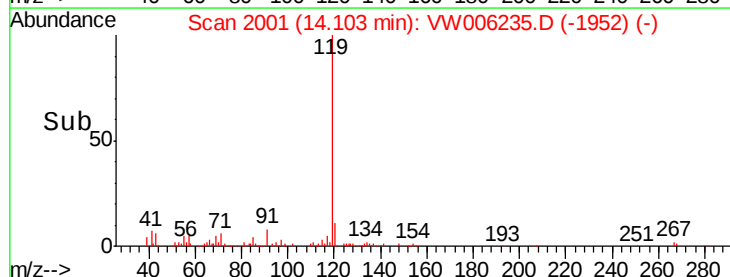
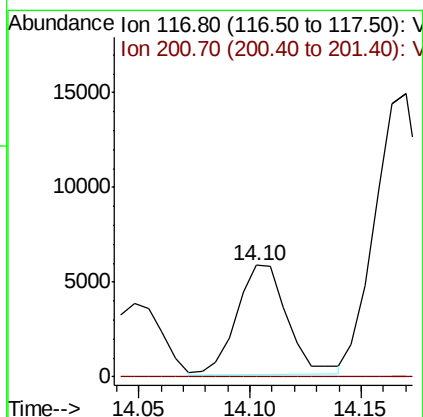
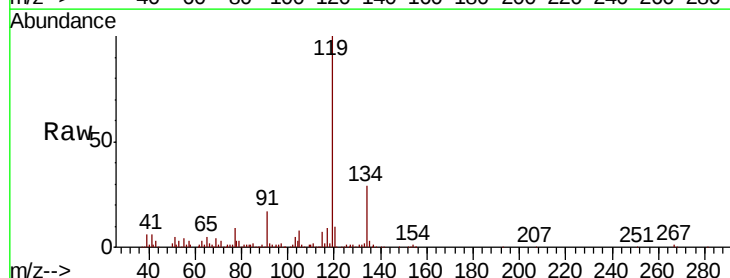
Acq: 19 Oct 2018 19:38

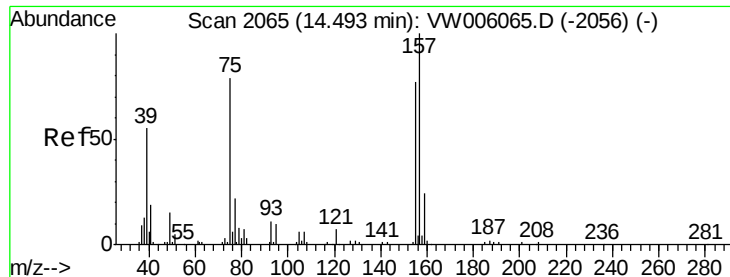
Tgt Ion: 117 Resp: 9173

Ion Ratio Lower Upper

117 100

201 0.0 45.3 135.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.726 ug/l

RT: 14.51 min Scan# 2068

Delta R.T. 0.02 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

Instrument :

MSVOA_W

ClientSampleId :

HD-02-101918

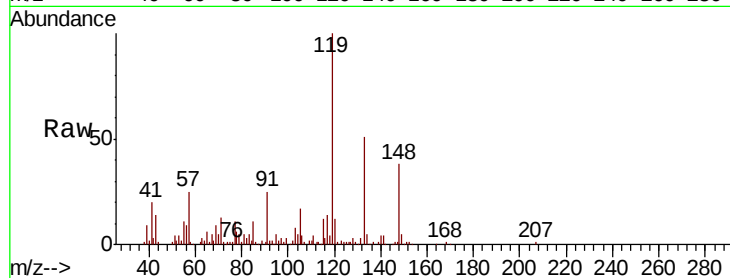
Tot Ion: 75 Resp: 305

Ion Ratio Lower Upper

75 100

155 6.6 46.5 139.5#

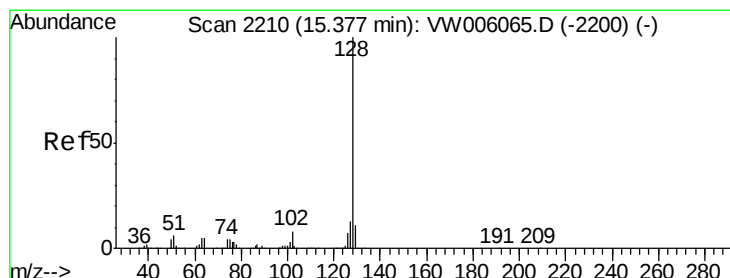
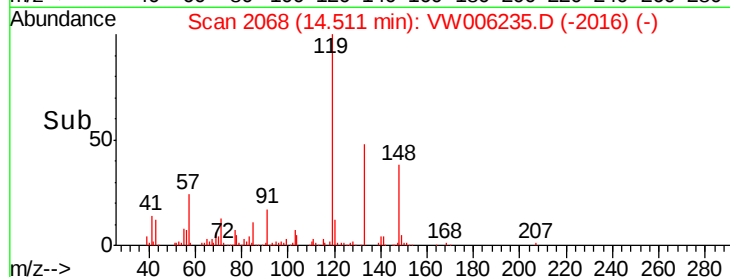
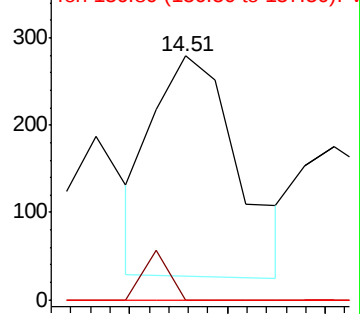
157 0.0 59.8 179.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 9.132 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW006235.D

Acq: 19 Oct 2018 19:38

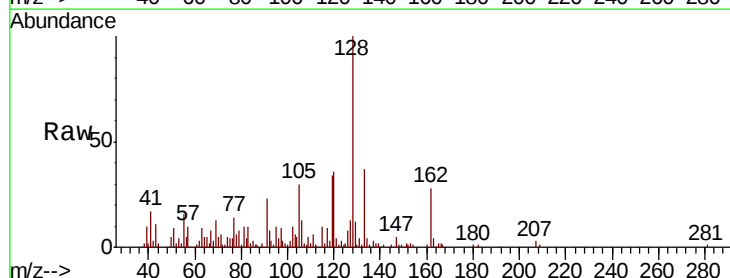
Tgt Ion: 128 Resp: 32972

Ion Ratio Lower Upper

128 100

127 10.7 10.3 15.5

129 9.1 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

