

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\
 Data File : BF094836.D
 Acq On : 3 May 2017 15:17
 Operator : SJ/MA
 Sample : I2921-04 10X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 03 16:40:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 02 17:18:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	85049	20.00	ng	0.00
21) Naphthalene-d8	9.75	136	330830	20.00	ng	0.00
38) Acenaphthene-d10	12.58	164	145734	20.00	ng	0.00
63) Phenanthrene-d10	14.98	188	227363	20.00	ng	0.00
75) Chrysene-d12	18.65	240	200440	20.00	ng	0.00
86) Perylene-d12	20.31	264	159474	20.00	ng	0.00

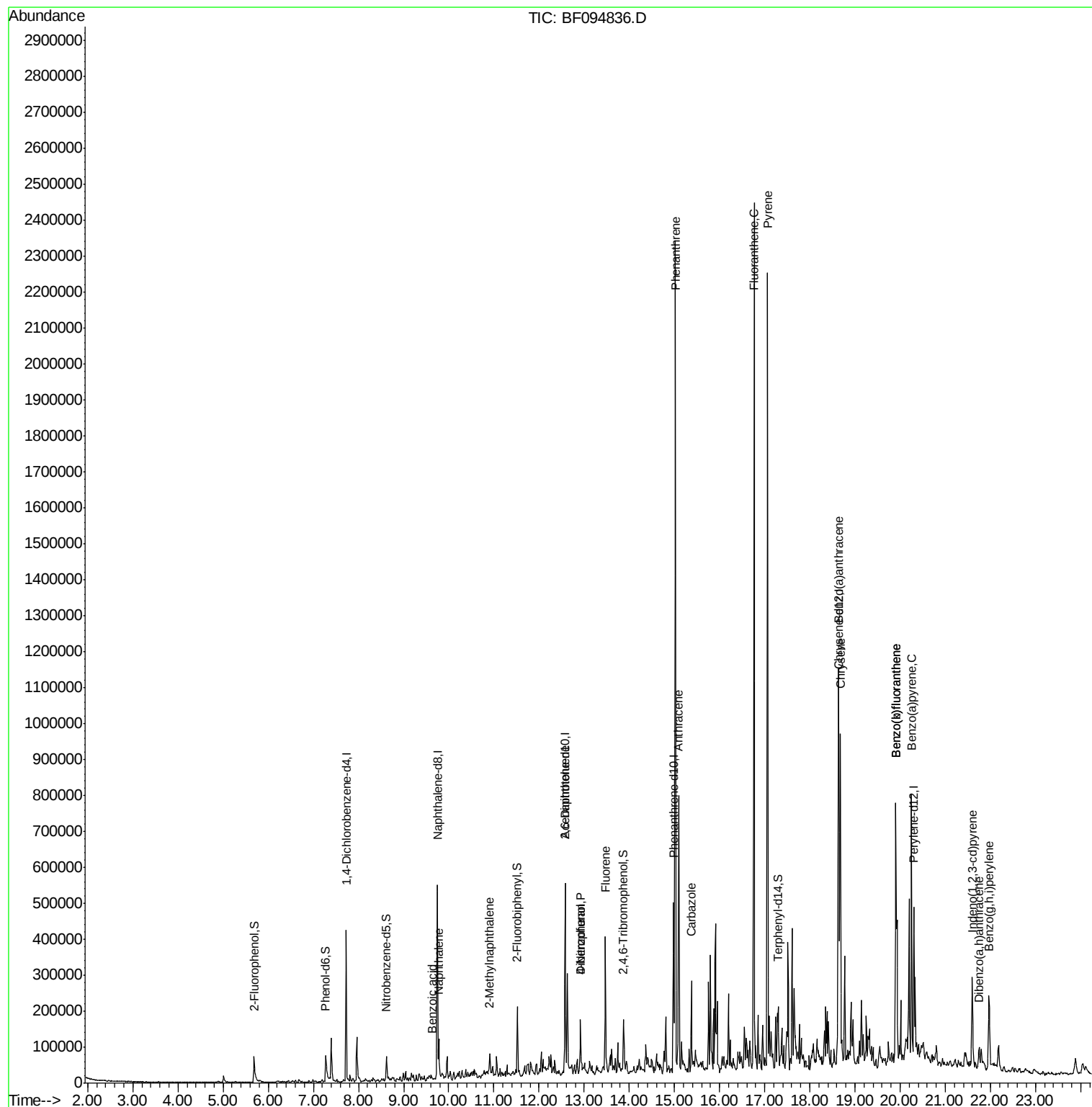
System Monitoring Compounds						
5) 2-Fluorophenol	5.68	112	53150	10.42	ng	0.00
7) Phenol-d6	7.28	99	63760	10.42	ng	0.00
23) Nitrobenzene-d5	8.62	82	37613	7.17	ng	-0.02
41) 2,4,6-Tribromophenol	13.88	330	10946	9.17	ng	0.00
44) 2-Fluorobiphenyl	11.52	172	71475	7.06	ng	-0.01
78) Terphenyl-d14	17.30	244	48815	5.36	ng	-0.01

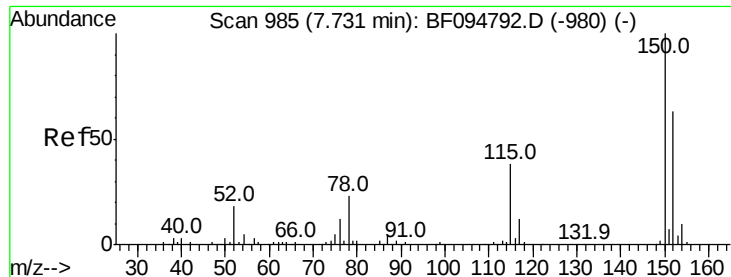
Target Compounds				Qvalue		
31) Naphthalene	9.78	128	60165	3.62	ng	98
32) Benzoic acid	9.63	122	1070	5.39	ng	# 18
37) 2-Methylnaphthalene	10.91	142	22592	2.07	ng	95
50) 2,6-Dinitrotoluene	12.58	165	16835	6.90	ng	# 31
54) Dibenzofuran	12.92	168	87205	6.80	ng	96
55) 4-Nitrophenol	12.92	139	32636	20.74	ng	# 29
57) Fluorene	13.47	166	129033	11.57	ng	100
70) Phenanthrene	15.02	178	1271104	97.30	ng	99
71) Anthracene	15.09	178	392172	29.39	ng	98
72) Carbazole	15.38	167	133664	11.01	ng	96
74) Fluoranthene	16.77	202	1250477	93.32	ng	99
77) Pvrene	17.07	202	1078645	71.95	ng	97
80) Benzo(a)anthracene	18.64	228	442868	37.96	ng	99
82) Chrysene	18.68	228	378786	33.58	ng	97
85) Indeno(1,2,3-cd)pyrene	21.59	276	139816	15.26	ng	95
87) Benzo(b)fluoranthene	19.91	252	528896	53.67	ng	98
88) Benzo(k)fluoranthene	19.91	252	528896	55.64	ng	95
89) Benzo(a)pyrene	20.25	252	307054	33.77	ng	98
90) Dibenzo(a,h)anthracene	21.75	278	28486	3.79	ng	95
91) Benzo(a,h,i)perylene	21.97	276	137865	18.71	ng	95

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

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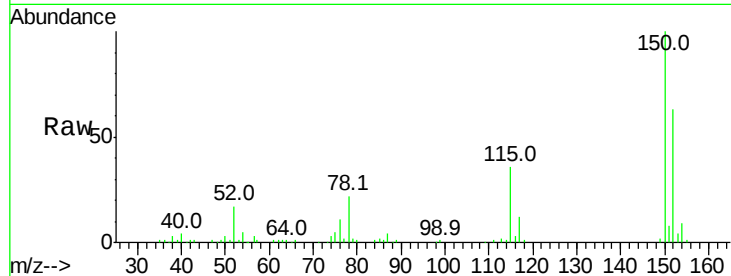




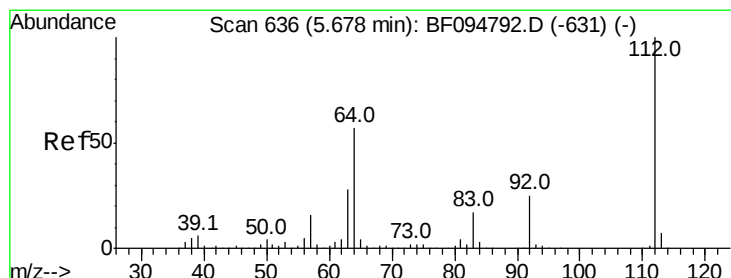
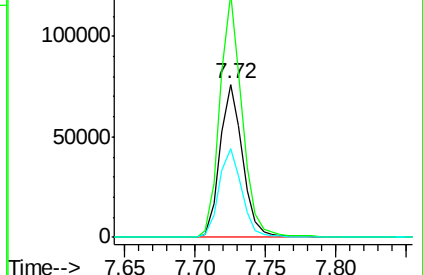
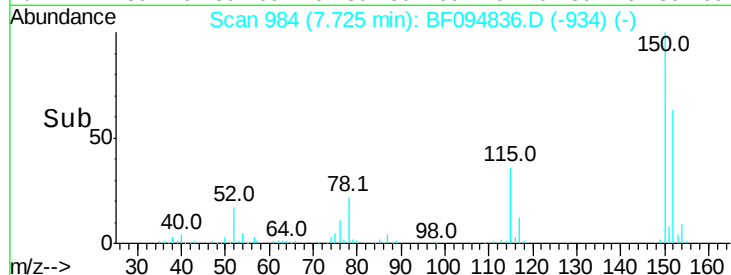
#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 984
Delta R.T. -0.01 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.2	126.2	189.2
115	58.1	52.2	78.2



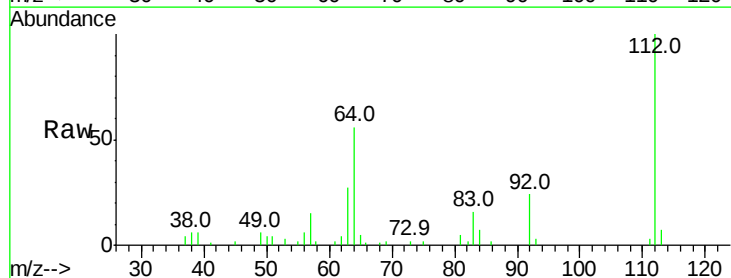
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



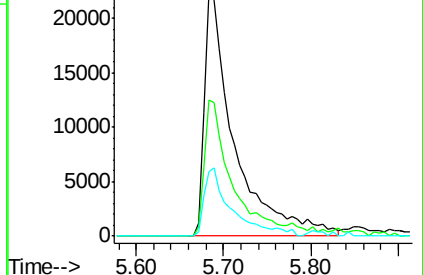
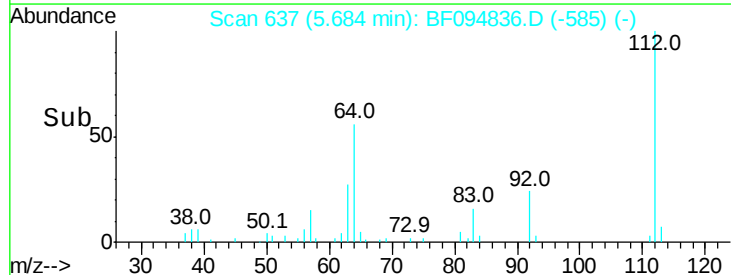
#5

2-Fluorophenol
Concen: 10.42 ng
RT: 5.68 min Scan# 637
Delta R.T. 0.01 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.9	46.0	69.0
63	26.7	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 10.42 ng

RT: 7.28 min Scan# 908

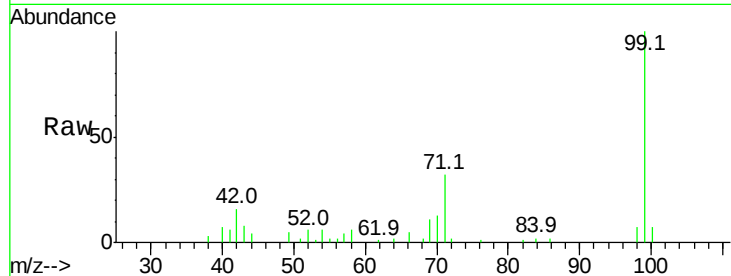
Delta R.T. 0.00 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

Tot Ion: 99 Resp: 63760

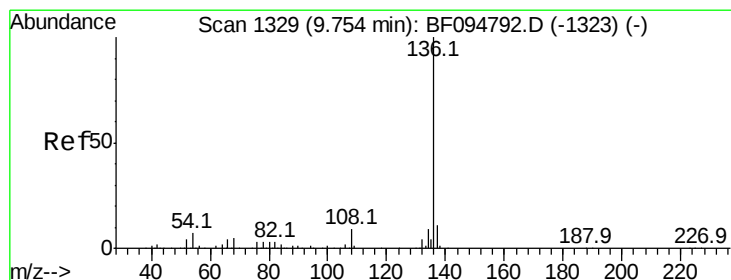
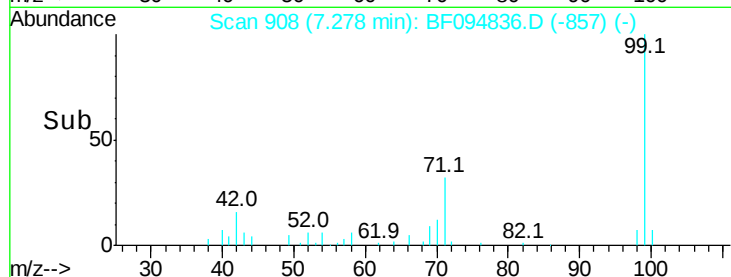
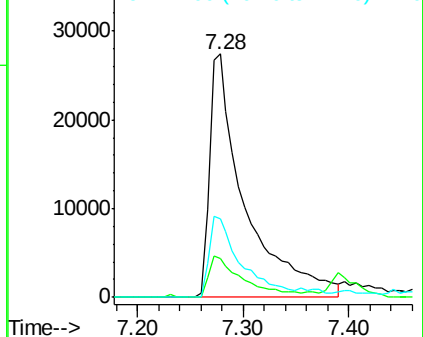
Ion	Ratio	Lower	Upper
99	100		
42	15.9	13.5	20.3
71	32.1	24.5	36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.75 min Scan# 1328

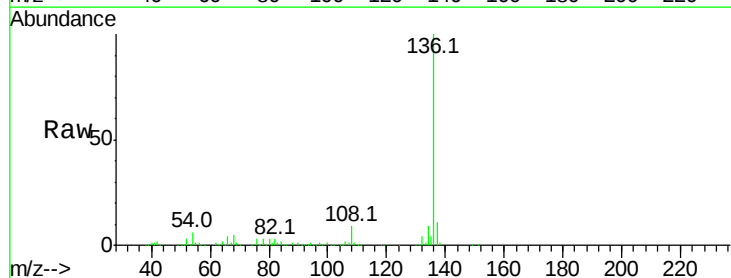
Delta R.T. -0.01 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

Tgt Ion: 136 Resp: 330830

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.5	12.7
54	6.5	4.9	7.3
68	5.4	4.1	6.1

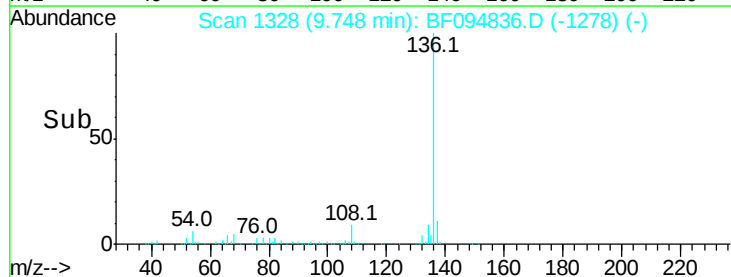
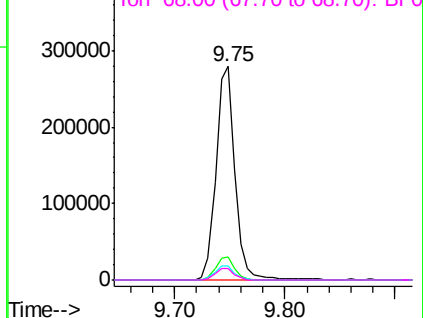


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 7.17 ng

RT: 8.62 min Scan# 1136

Delta R.T. -0.02 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

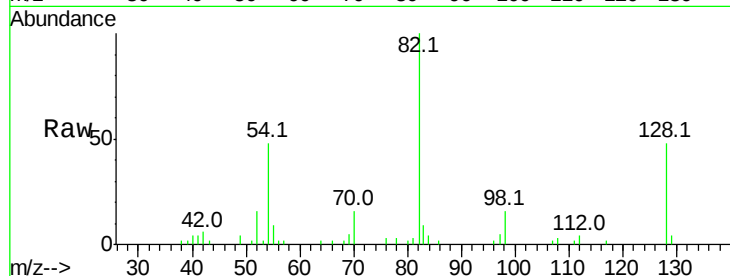
Tot Ion: 82 Resp: 37613

Ion Ratio Lower Upper

82 100

128 47.6 34.0 51.0

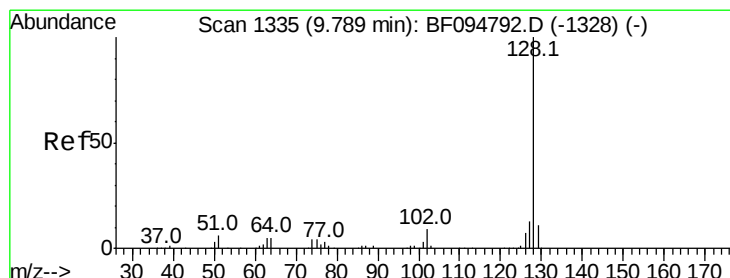
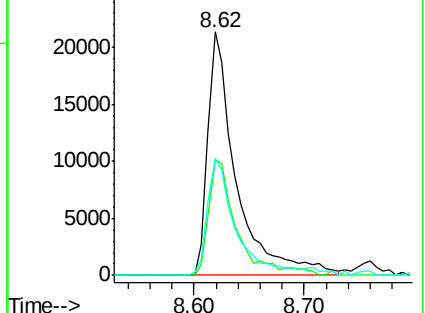
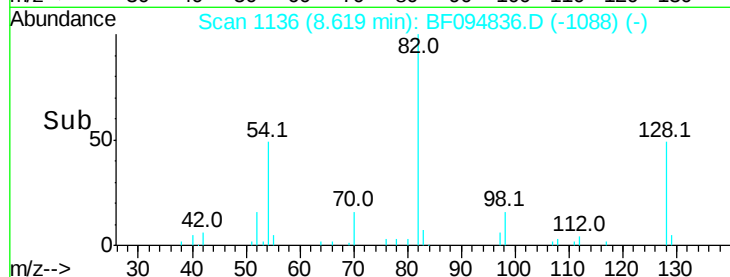
54 48.0 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 3.62 ng

RT: 9.78 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

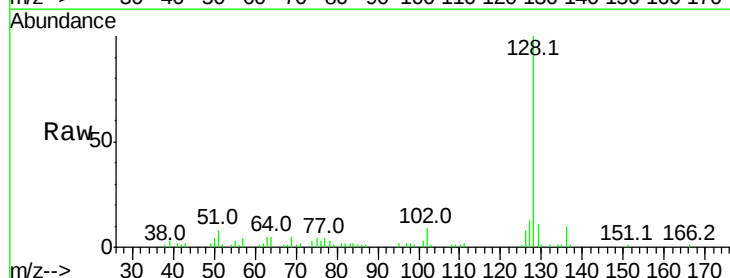
Tgt Ion: 128 Resp: 60165

Ion Ratio Lower Upper

128 100

129 10.8 9.0 13.6

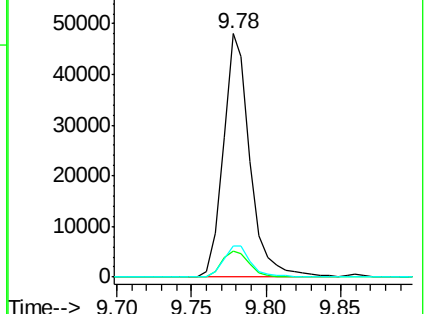
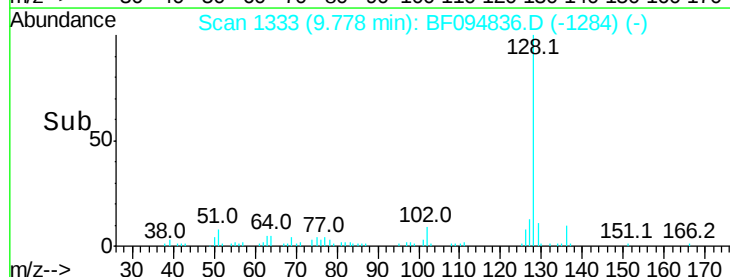
127 12.7 10.8 16.2

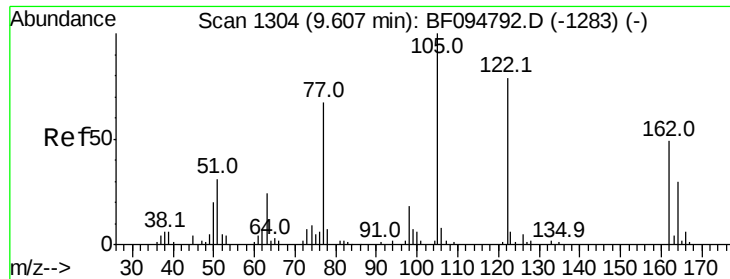


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 5.39 ng

RT: 9.63 min Scan# 1308

Delta R.T. 0.02 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

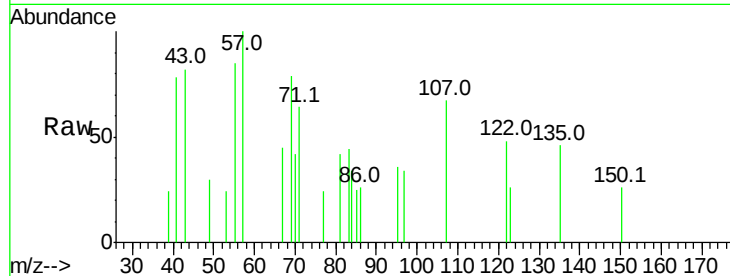
Tot Ion:122 Resp: 1070

Ion Ratio Lower Upper

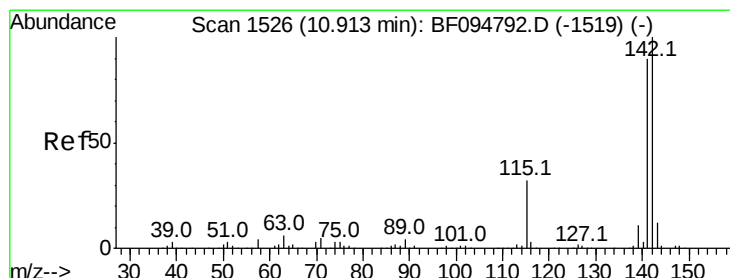
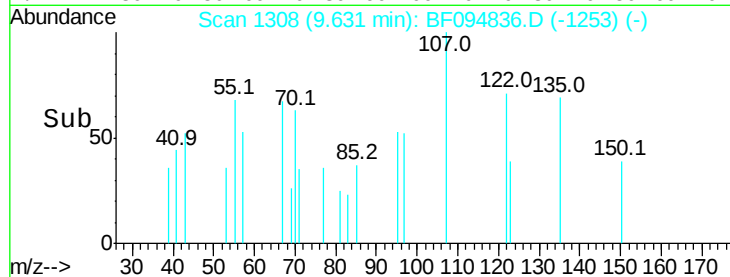
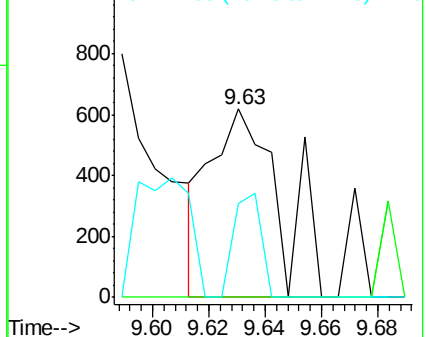
122 100

105 0.0 103.3 143.3#

77 50.2 73.7 113.7#



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): E



#37

2-Methylnaphthalene

Concen: 2.07 ng

RT: 10.91 min Scan# 1525

Delta R.T. -0.01 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

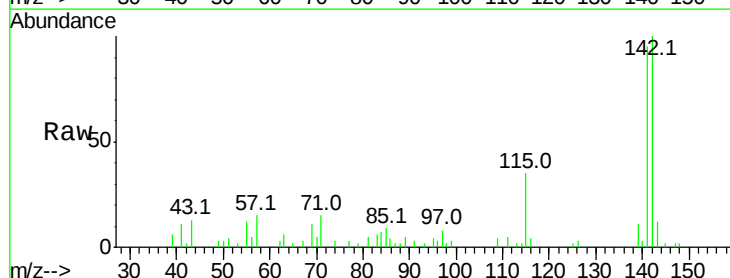
Tgt Ion:142 Resp: 22592

Ion Ratio Lower Upper

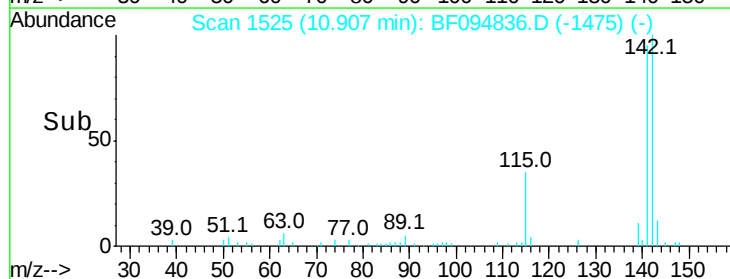
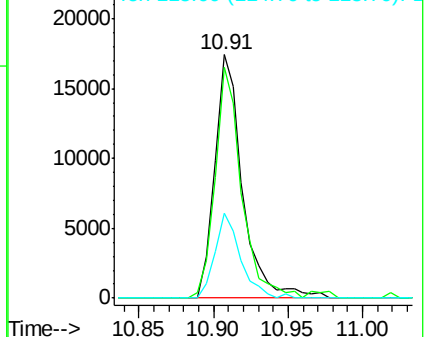
142 100

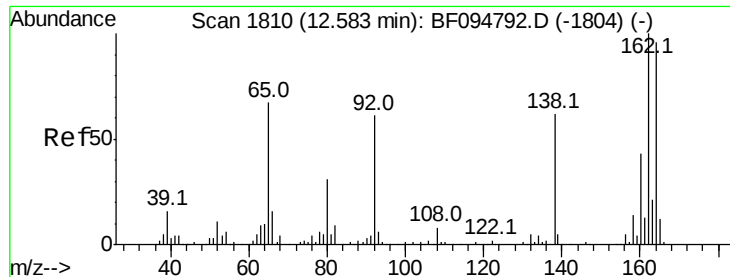
141 94.6 71.3 106.9

115 35.1 27.1 40.7



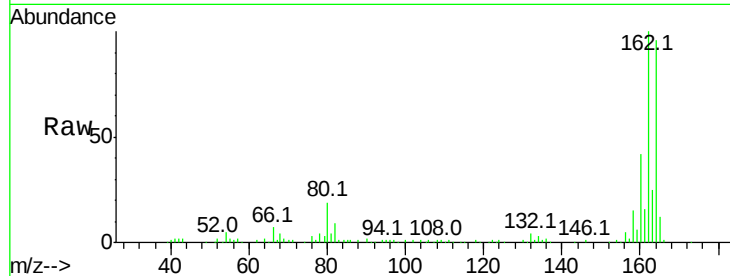
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



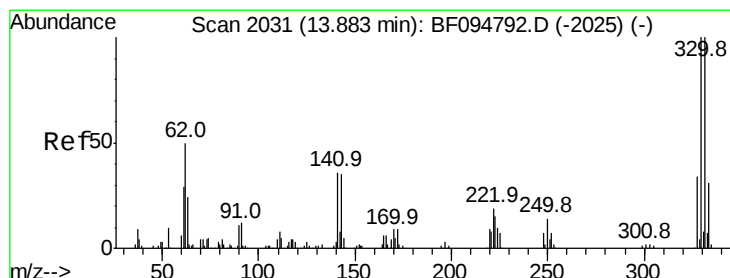
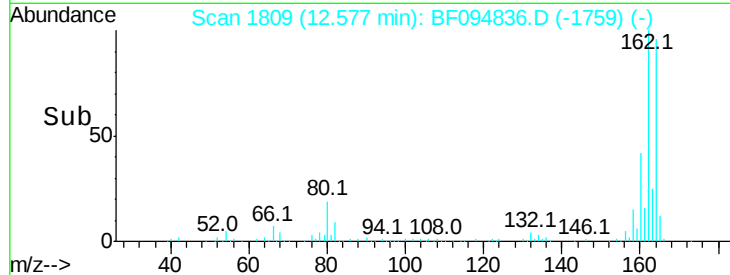
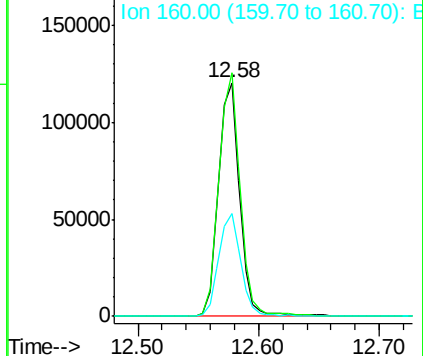


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.58 min Scan# 1809
 Delta R.T. -0.01 min
 Lab File: BF094836.D
 Acq: 3 May 2017 15:17

Tot Ion	Ratio	Lower	Upper
164	100		
162	104.2	82.6	123.8
160	43.7	36.2	54.2

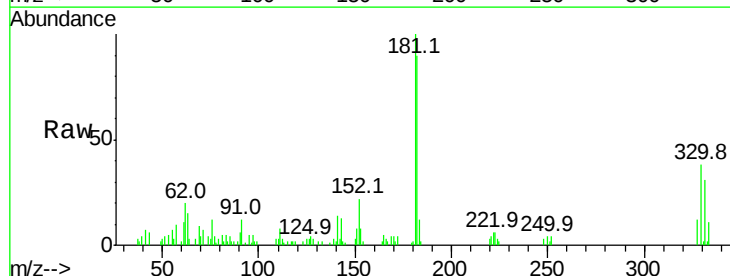


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

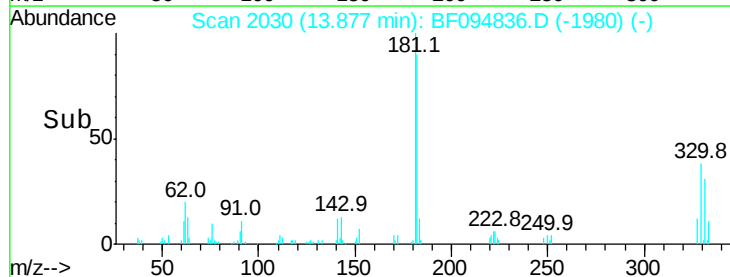
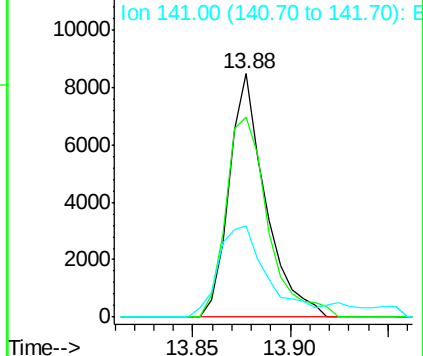


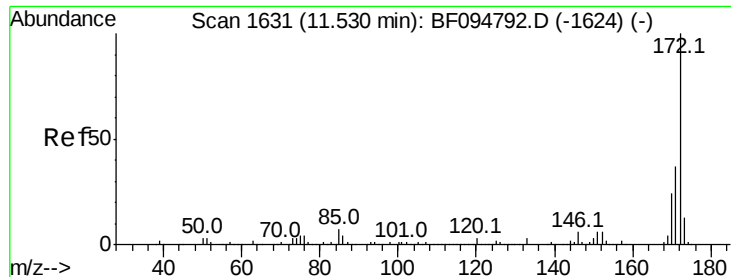
#41
 2,4,6-Tribromophenol
 Concen: 9.17 ng
 RT: 13.88 min Scan# 2030
 Delta R.T. -0.01 min
 Lab File: BF094836.D
 Acq: 3 May 2017 15:17

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.6	115.0
141	50.2	31.4	47.2



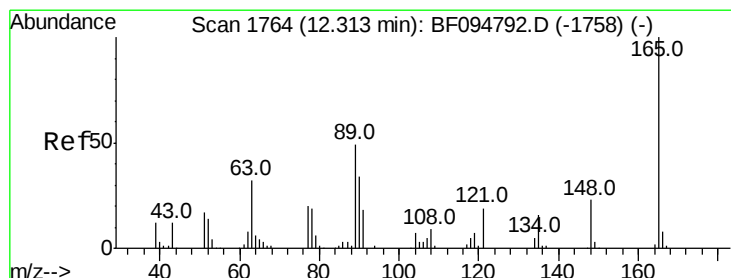
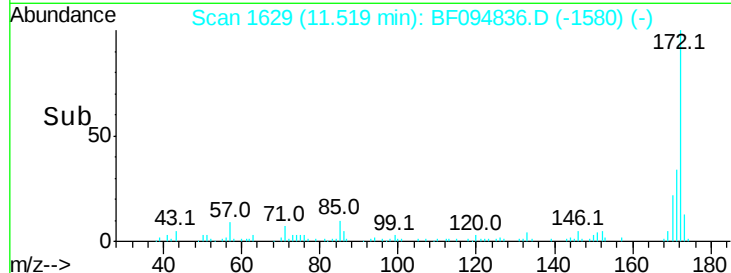
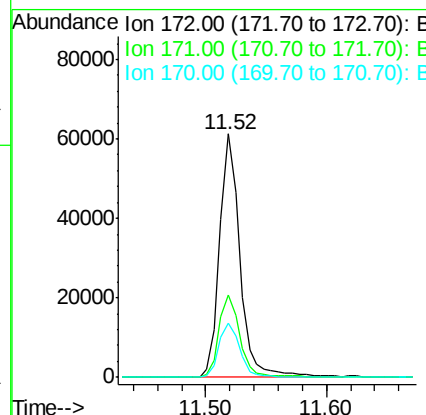
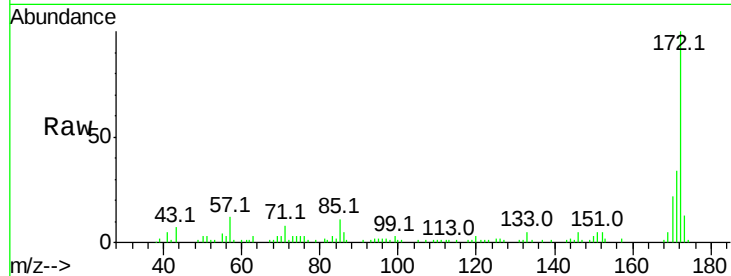
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





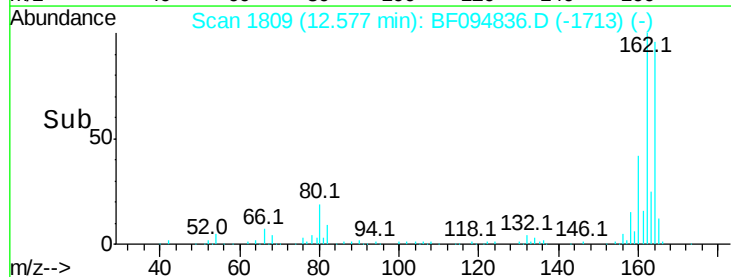
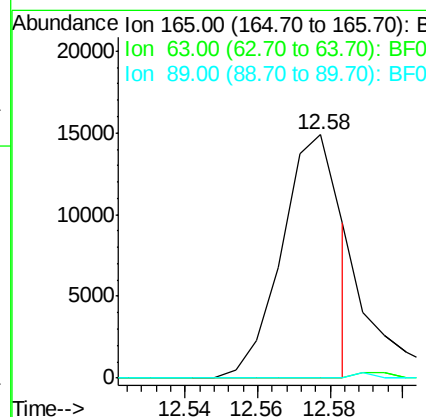
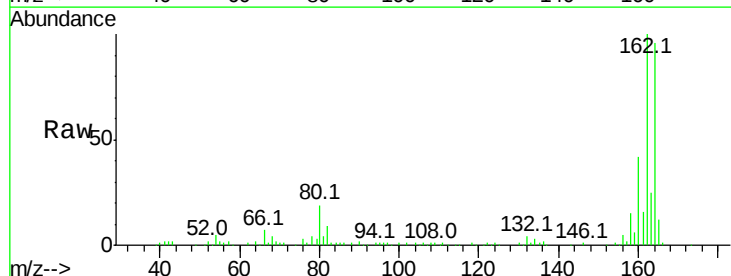
#44
 2-Fluorobiphenyl
 Concen: 7.06 ng
 RT: 11.52 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: BF094836.D
 Acq: 3 May 2017 15:17

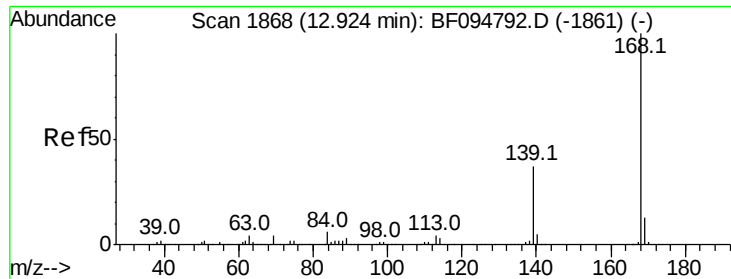
Tot Ion:172 Resp: 71475
 Ion Ratio Lower Upper
 172 100
 171 33.8 29.6 44.4
 170 22.3 19.8 29.8



#50
 2,6-Dinitrotoluene
 Concen: 6.90 ng
 RT: 12.58 min Scan# 1809
 Delta R.T. 0.26 min
 Lab File: BF094836.D
 Acq: 3 May 2017 15:17

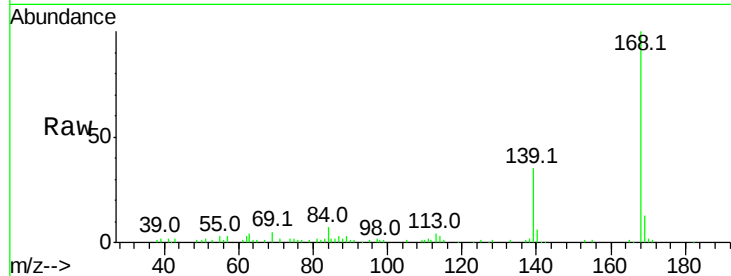
Tgt Ion:165 Resp: 16835
 Ion Ratio Lower Upper
 165 100
 63 0.0 34.3 51.5#
 89 0.0 37.1 55.7#



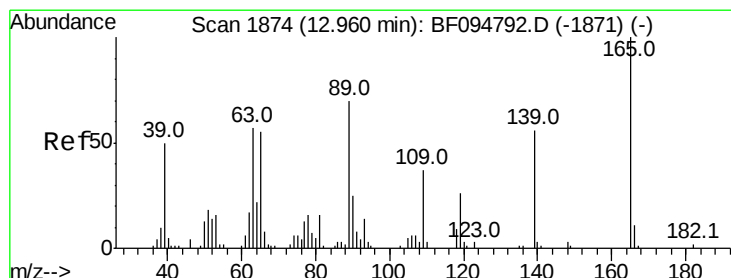
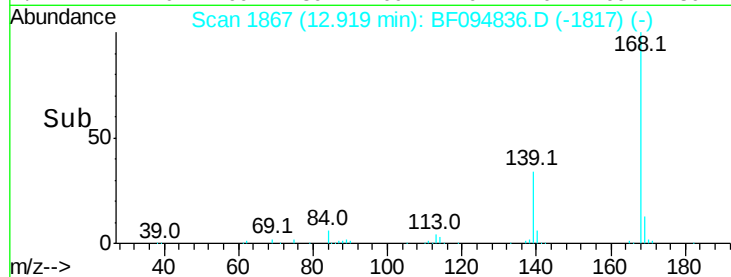
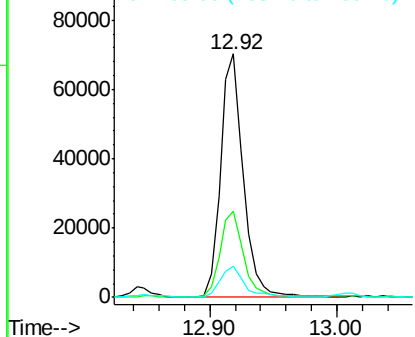


#54
Dibenzofuran
Concen: 6.80 ng
RT: 12.92 min Scan# 1867
Delta R.T. -0.01 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.2	30.6	45.8
169	12.8	10.8	16.2

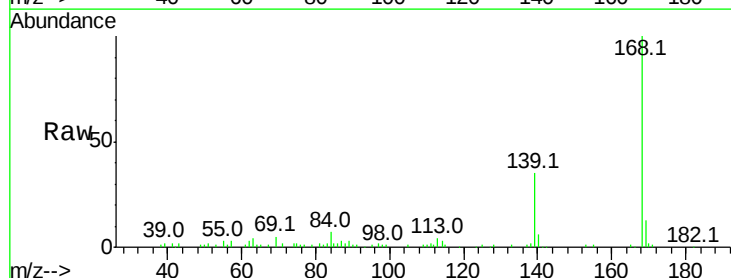


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

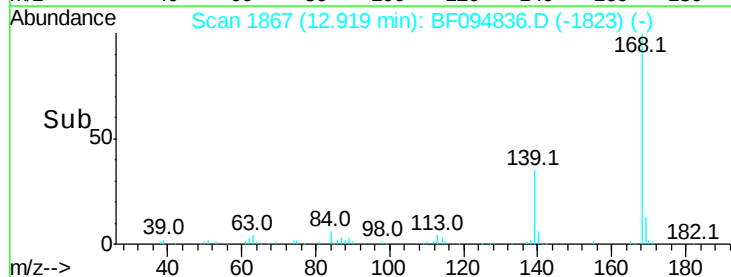
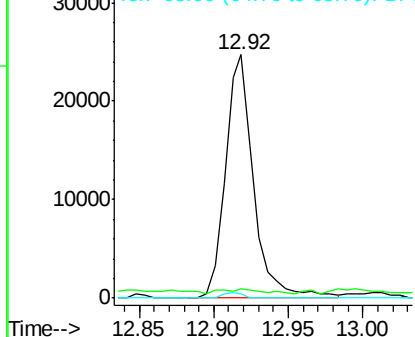


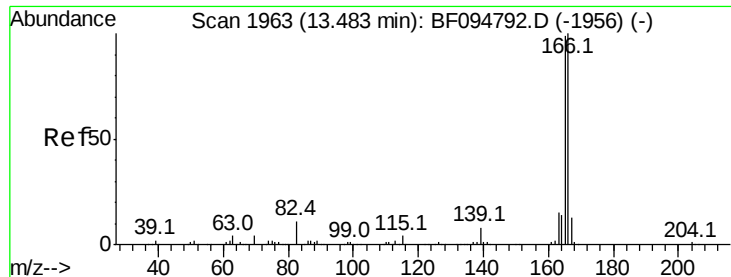
#55
4-Nitrophenol
Concen: 20.74 ng
RT: 12.92 min Scan# 1867
Delta R.T. -0.04 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

Tgt Ion	Ratio	Lower	Upper
139	100		
109	3.6	34.1	74.1#
65	1.9	31.4	71.4#



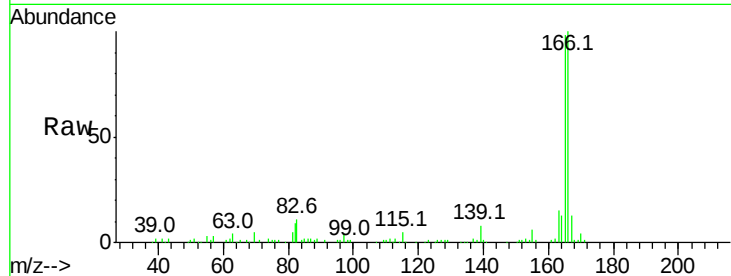
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0



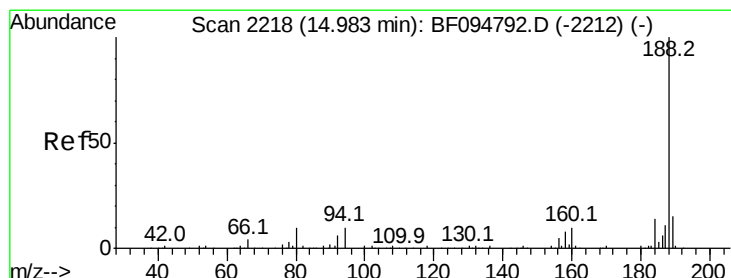
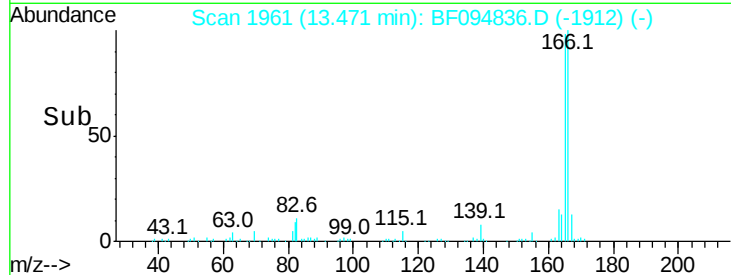
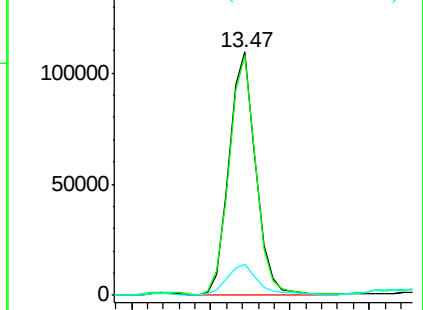


#57
 Fluorene
 Concen: 11.57 ng
 RT: 13.47 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BF094836.D
 Acq: 3 May 2017 15:17

Tot Ion:166	Resp:	129033
Ion Ratio	Lower	Upper
166	100	
165	98.3	78.8 118.2
167	13.0	10.6 16.0

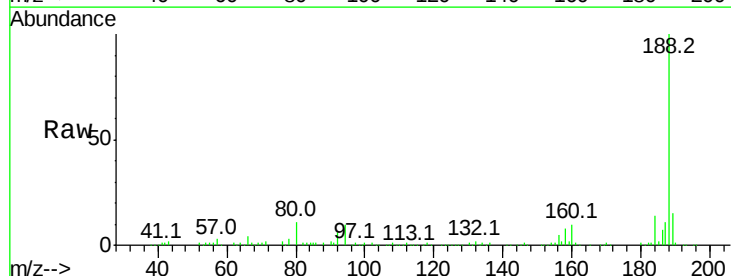


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

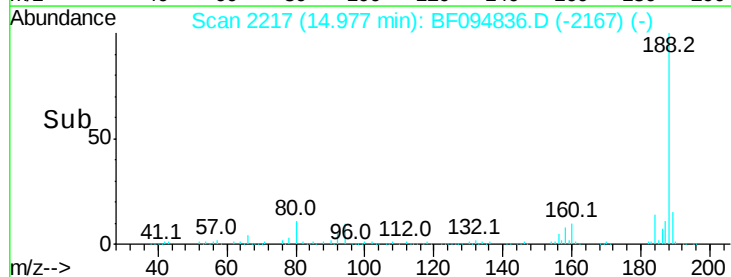
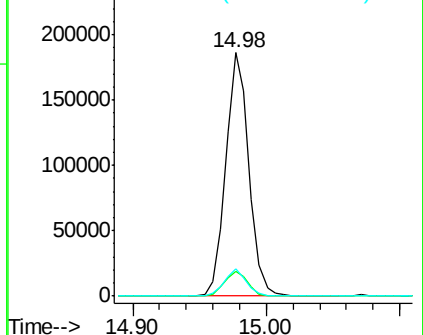


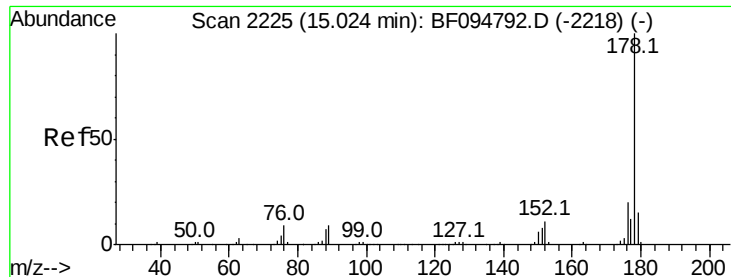
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.98 min Scan# 2217
 Delta R.T. -0.01 min
 Lab File: BF094836.D
 Acq: 3 May 2017 15:17

Tgt Ion:188	Resp:	227363
Ion Ratio	Lower	Upper
188	100	
94	10.1	9.4 14.2
80	11.3	10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

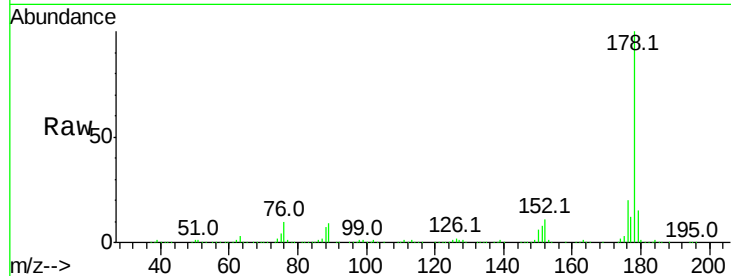




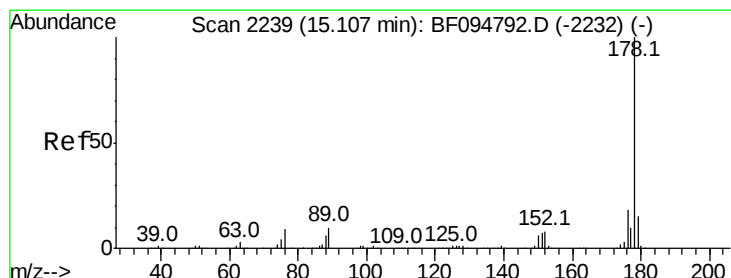
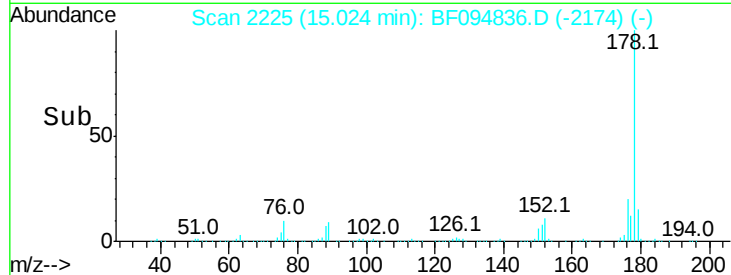
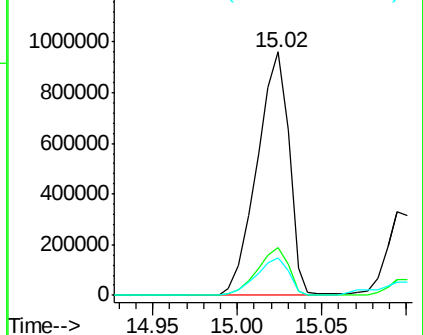
#70
Phenanthrene
Concen: 97.30 ng
RT: 15.02 min Scan# 2225
Delta R.T. 0.00 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

Tot Ion:178 Resp: 1271104

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.2	24.4
179	15.4	12.6	19.0



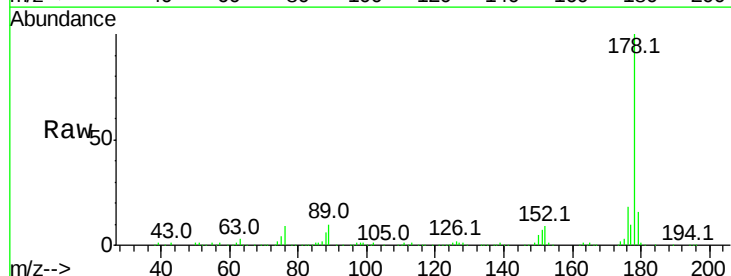
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



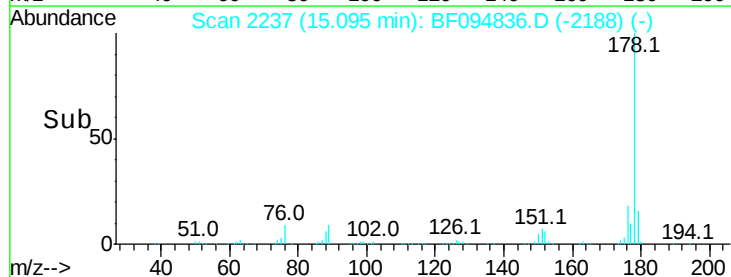
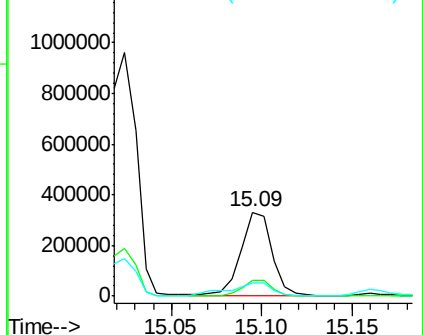
#71
Anthracene
Concen: 29.39 ng
RT: 15.09 min Scan# 2237
Delta R.T. -0.01 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

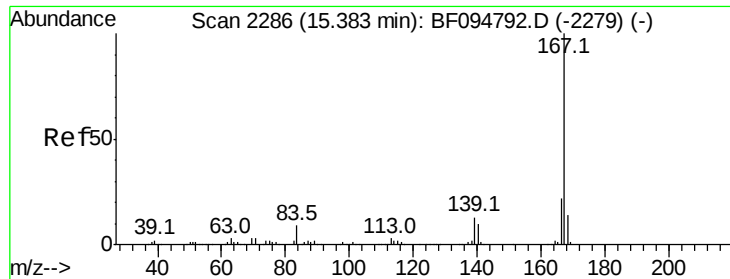
Tgt Ion:178 Resp: 392172

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	15.9	12.7	19.1



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 11.01 ng

RT: 15.38 min Scan# 2285

Delta R.T. -0.01 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

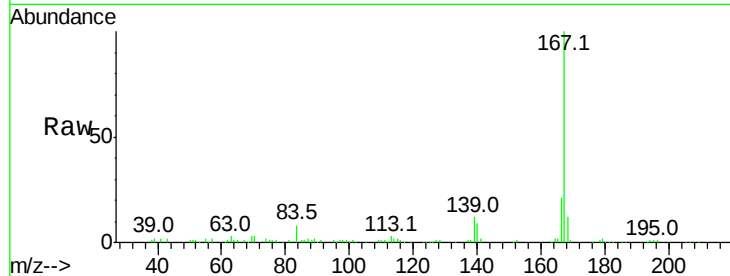
Tot Ion:167 Resp: 133664

Ion Ratio Lower Upper

167 100

166 20.9 18.1 27.1

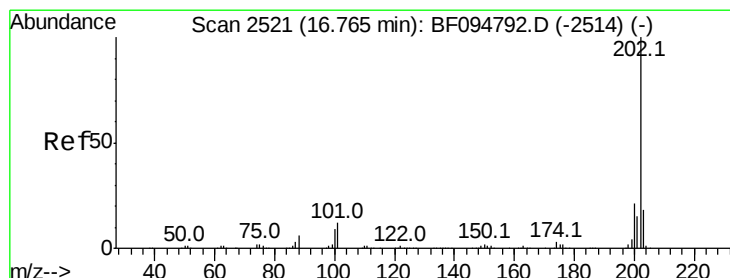
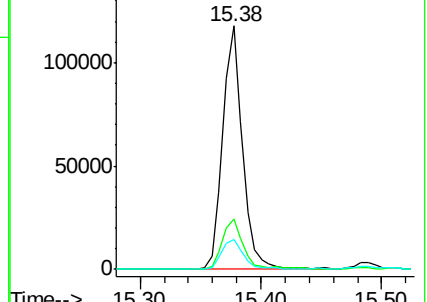
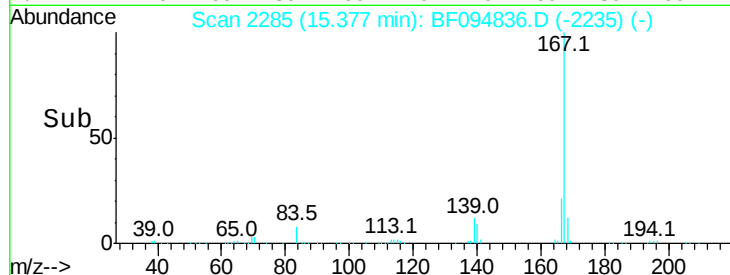
139 12.3 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 93.32 ng

RT: 16.77 min Scan# 2521

Delta R.T. 0.00 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

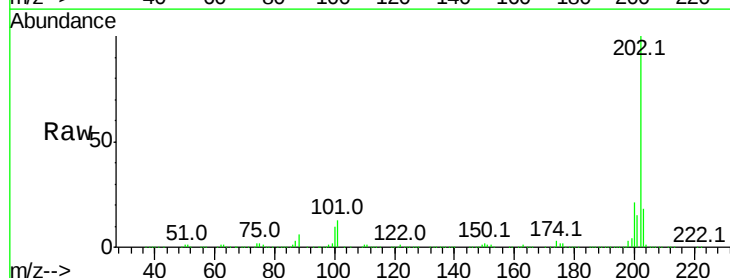
Tgt Ion:202 Resp: 1250477

Ion Ratio Lower Upper

202 100

101 12.8 0.0 33.2

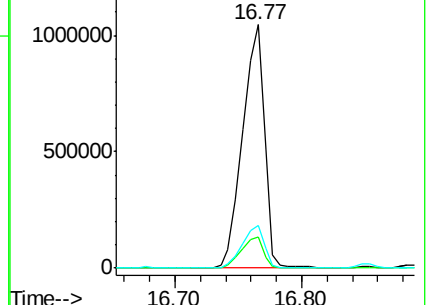
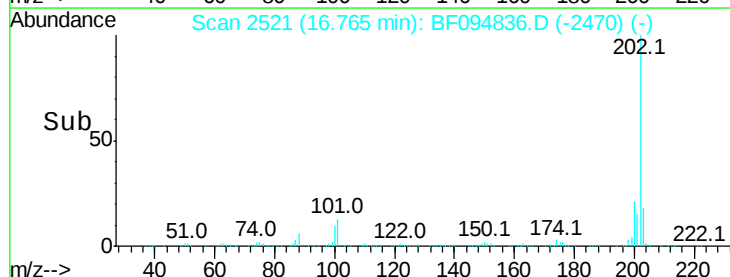
203 17.6 0.0 38.1

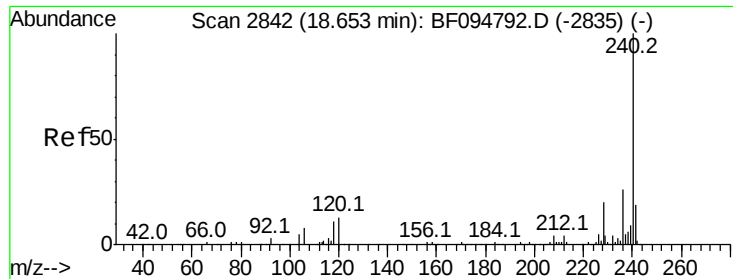


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.65 min Scan# 2841

Delta R.T. -0.01 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

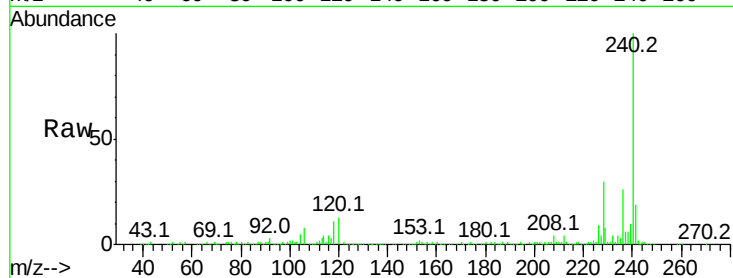
Tot Ion:240 Resp: 200440

Ion Ratio Lower Upper

240 100

120 12.6 5.8 8.8#

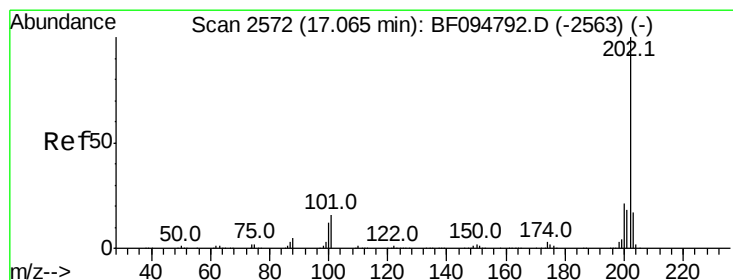
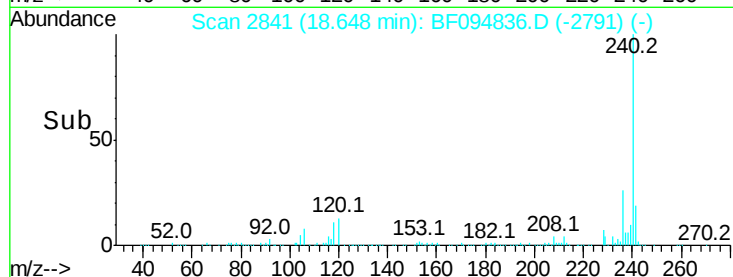
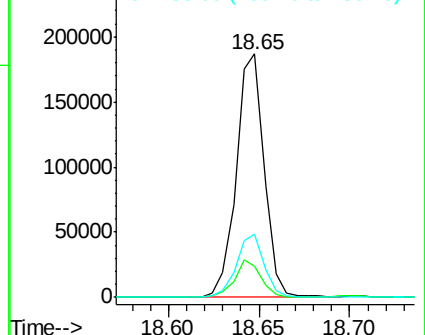
236 25.7 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 71.95 ng

RT: 17.07 min Scan# 2572

Delta R.T. 0.00 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

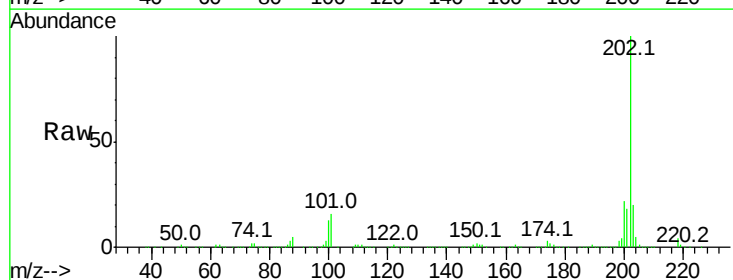
Tgt Ion:202 Resp: 1078645

Ion Ratio Lower Upper

202 100

200 22.0 17.6 26.4

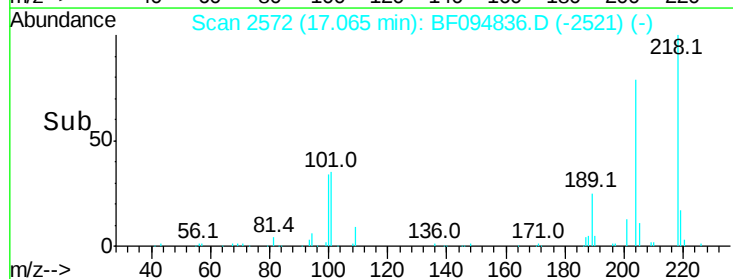
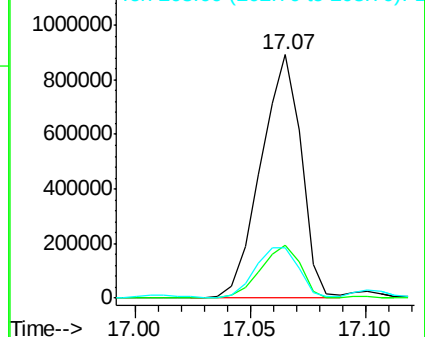
203 20.5 14.4 21.6

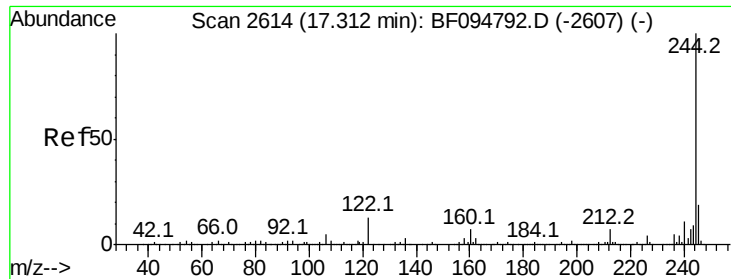


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

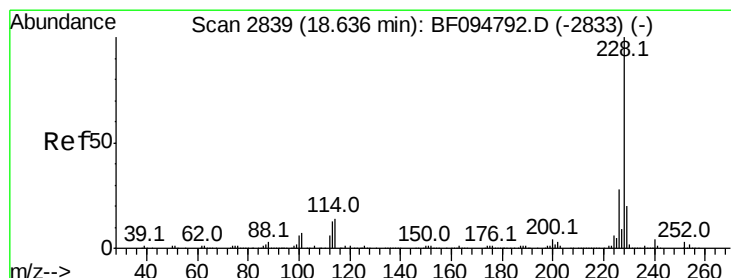
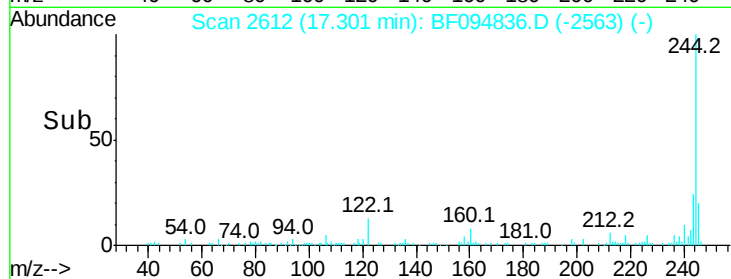
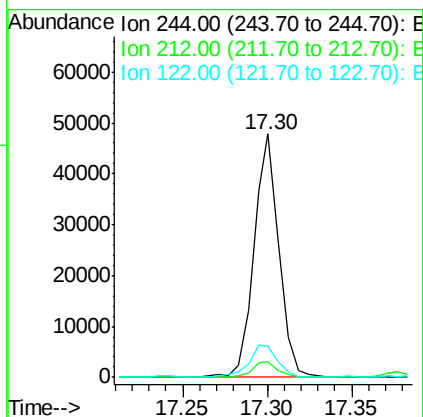
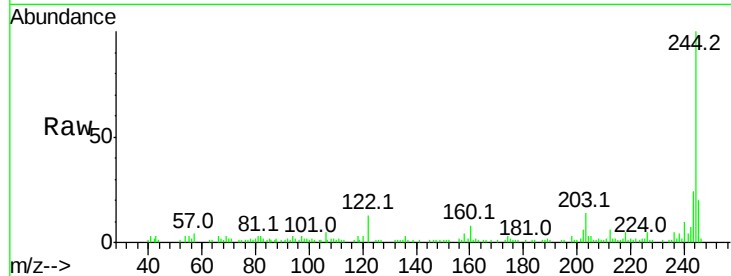
Ion 203.00 (202.70 to 203.70): E





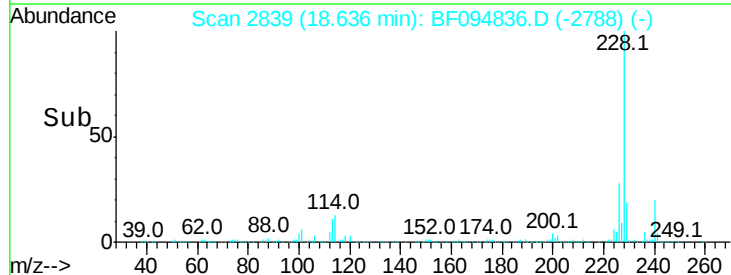
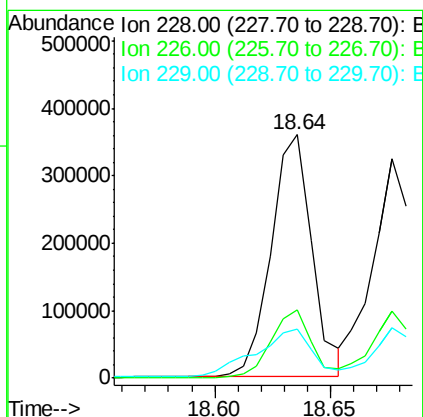
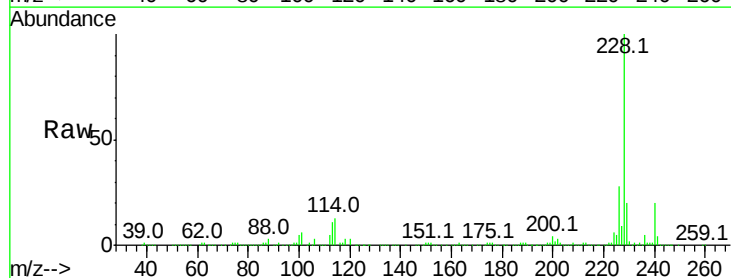
#78
 Terphenyl-d14
 Concen: 5.36 ng
 RT: 17.30 min Scan# 2612
 Delta R.T. -0.01 min
 Lab File: BF094836.D
 Acq: 3 May 2017 15:17

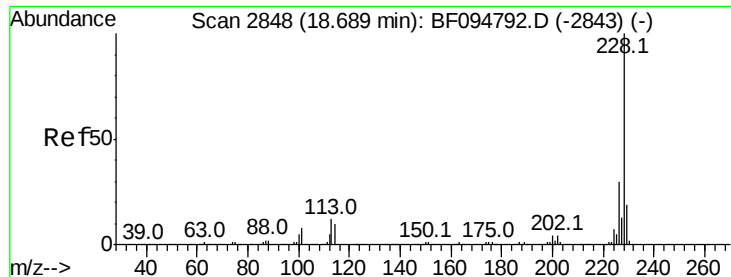
Tot Ion:244 Resp: 48815
 Ion Ratio Lower Upper
 244 100
 212 6.4 6.0 9.0
 122 12.9 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 37.96 ng
 RT: 18.64 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: BF094836.D
 Acq: 3 May 2017 15:17

Tgt Ion:228 Resp: 442868
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.6 33.8
 229 19.9 16.3 24.5





#82

Chrysene

Concen: 33.58 ng

RT: 18.68 min Scan# 2846

Delta R.T. -0.01 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

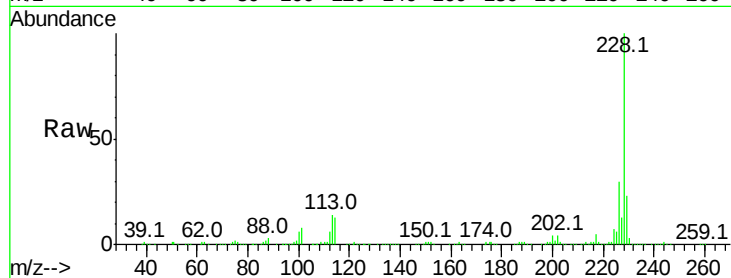
Tot Ion:228 Resp: 378786

Ion Ratio Lower Upper

228 100

226 30.4 24.9 37.3

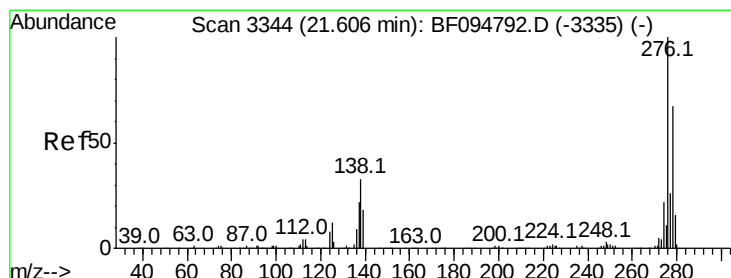
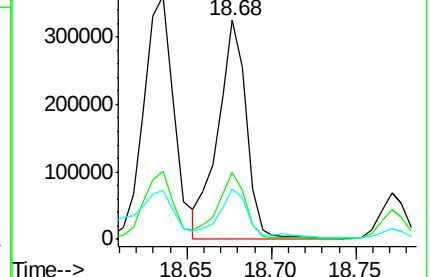
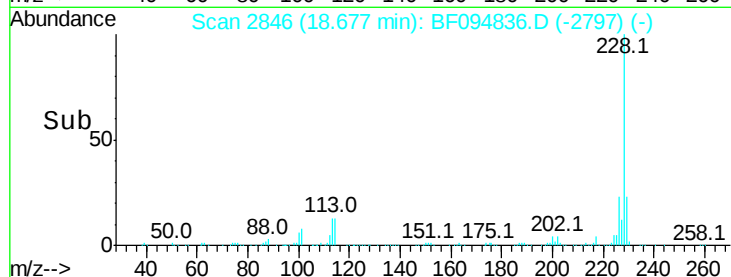
229 22.8 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 15.26 ng

RT: 21.59 min Scan# 3342

Delta R.T. -0.01 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

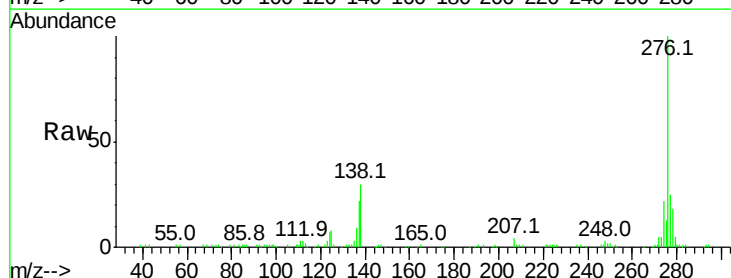
Tgt Ion:276 Resp: 139816

Ion Ratio Lower Upper

276 100

138 30.6 27.8 41.6

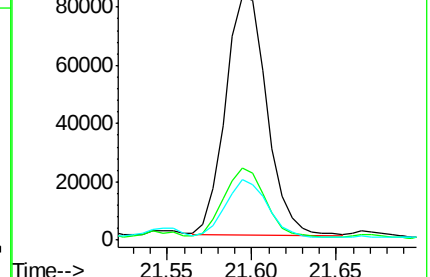
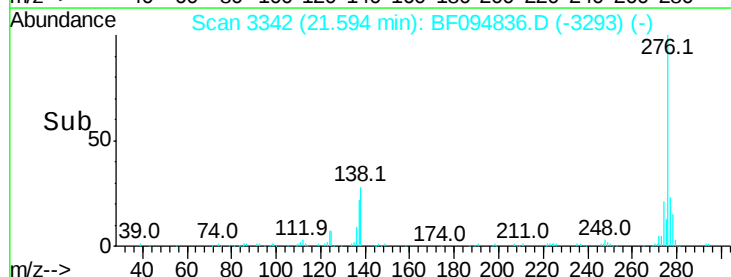
277 24.5 20.2 30.4

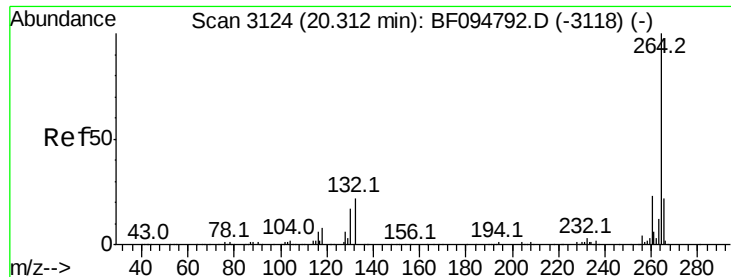


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

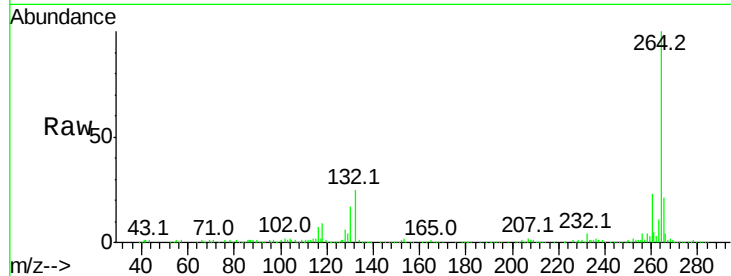
Ion 277.00 (276.70 to 277.70): E



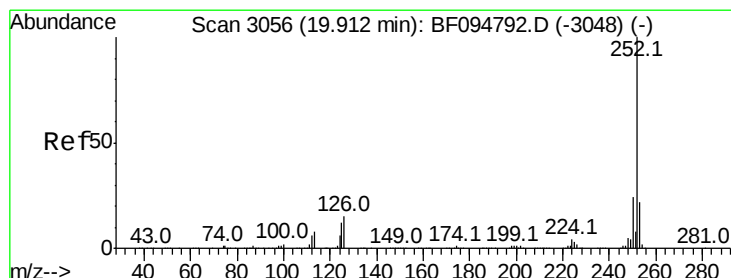
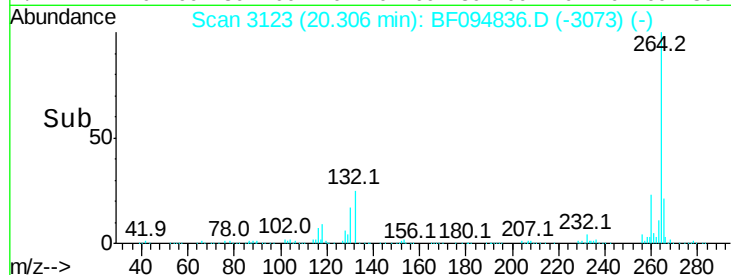
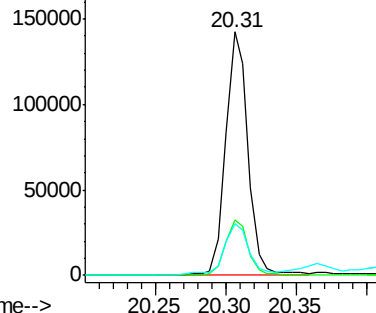


#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.31 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.5	29.3
265	21.3	17.2	25.8

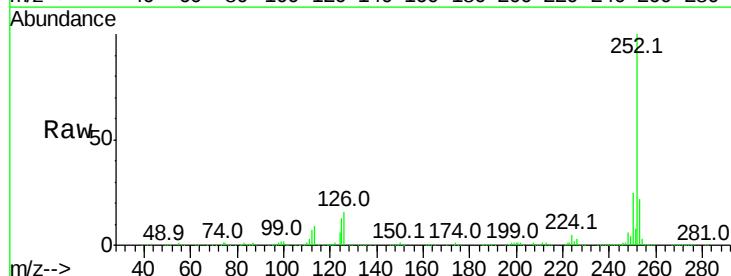


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

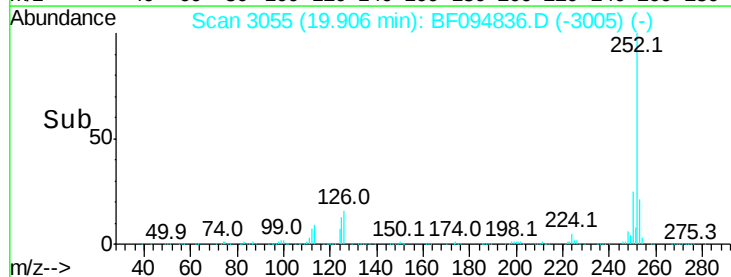
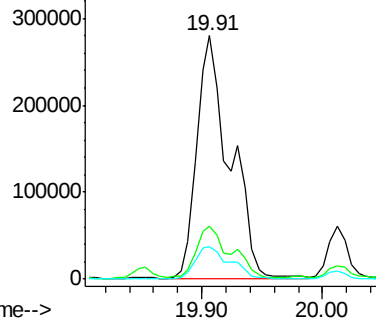


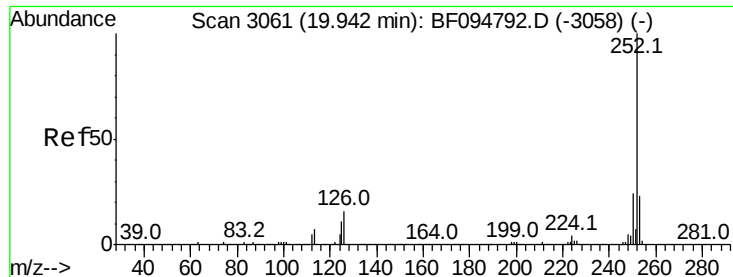
#87
Benzo(b)fluoranthene
Concen: 53.67 ng
RT: 19.91 min Scan# 3055
Delta R.T. -0.01 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.1	27.1
125	13.3	9.8	14.8



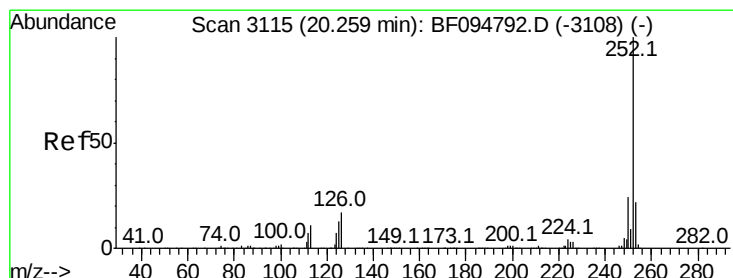
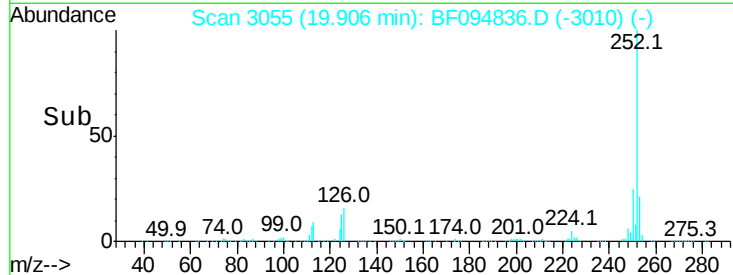
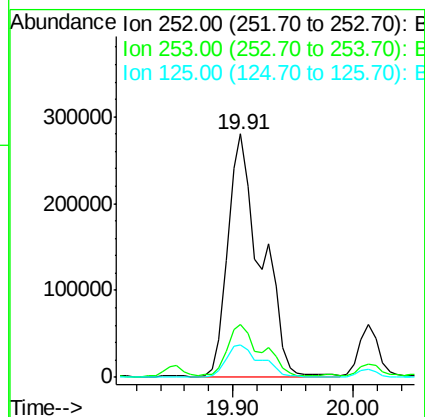
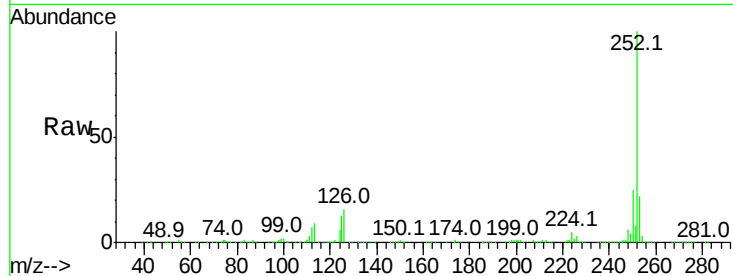
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





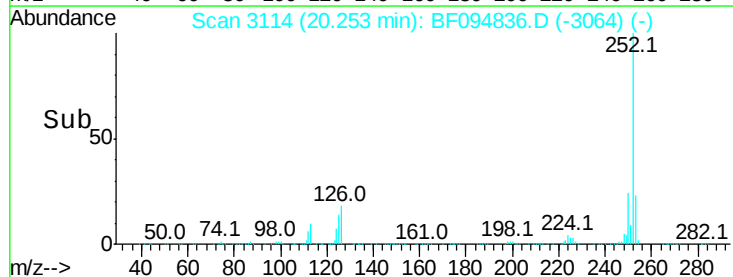
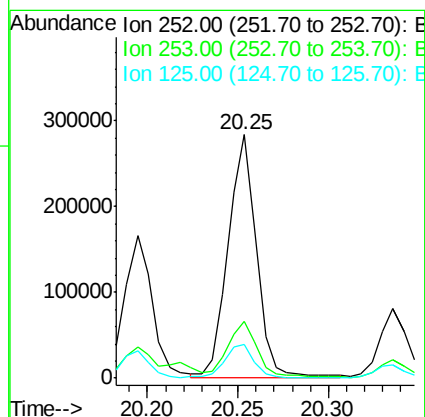
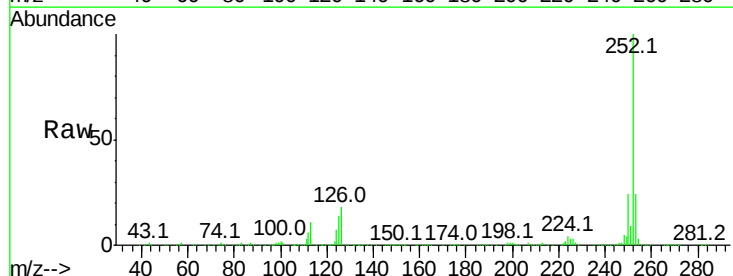
#88
Benzo(k)fluoranthene
Concen: 55.64 ng
RT: 19.91 min Scan# 3055
Delta R.T. -0.04 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

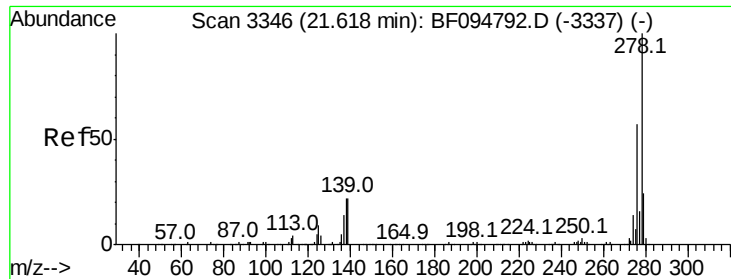
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.4	27.6
125	13.3	13.1	19.7



#89
Benzo(a)pyrene
Concen: 33.77 ng
RT: 20.25 min Scan# 3114
Delta R.T. -0.01 min
Lab File: BF094836.D
Acq: 3 May 2017 15:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	14.0	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.79 ng

RT: 21.75 min Scan# 3368

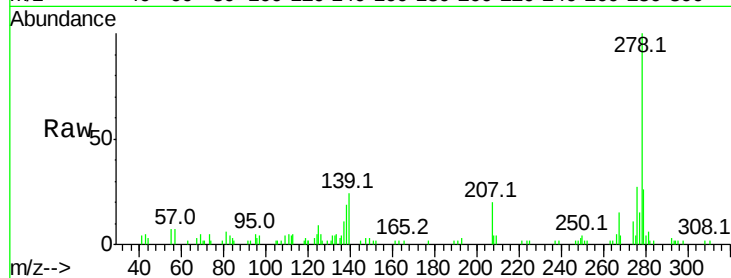
Delta R.T. 0.13 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

Tot Ion:278 Resp: 28486

Ion	Ratio	Lower	Upper
278	100		
139	23.6	16.6	24.8
279	25.7	19.3	28.9

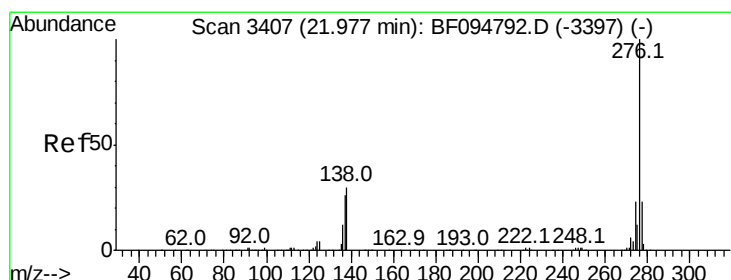
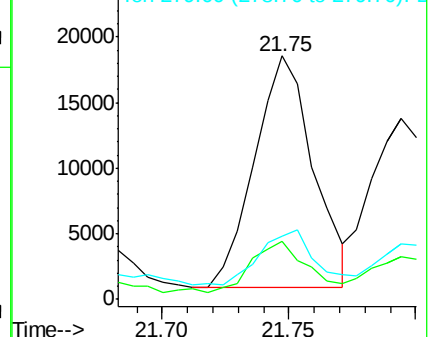
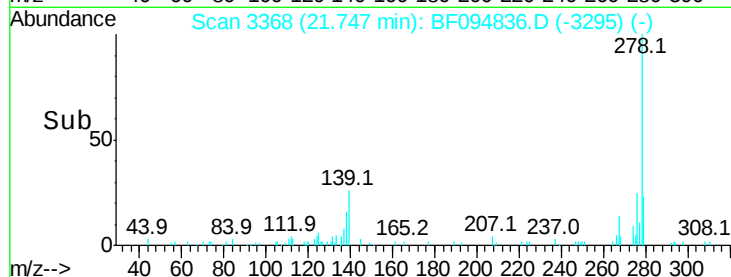


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 18.71 ng

RT: 21.97 min Scan# 3406

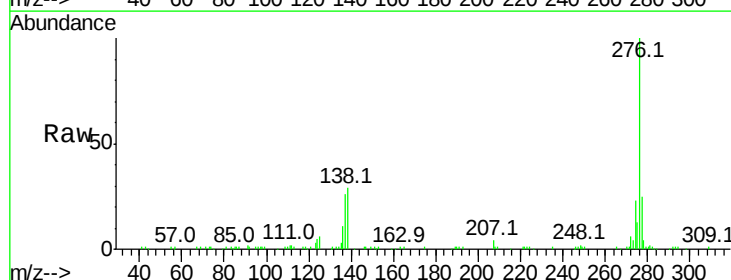
Delta R.T. -0.01 min

Lab File: BF094836.D

Acq: 3 May 2017 15:17

Tgt Ion:276 Resp: 137865

Ion	Ratio	Lower	Upper
276	100		
277	25.1	18.6	28.0
138	28.8	25.4	38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

