

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\
 Data File : BF094828.D
 Acq On : 3 May 2017 11:00
 Operator : SJ/MA
 Sample : I2921-06 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

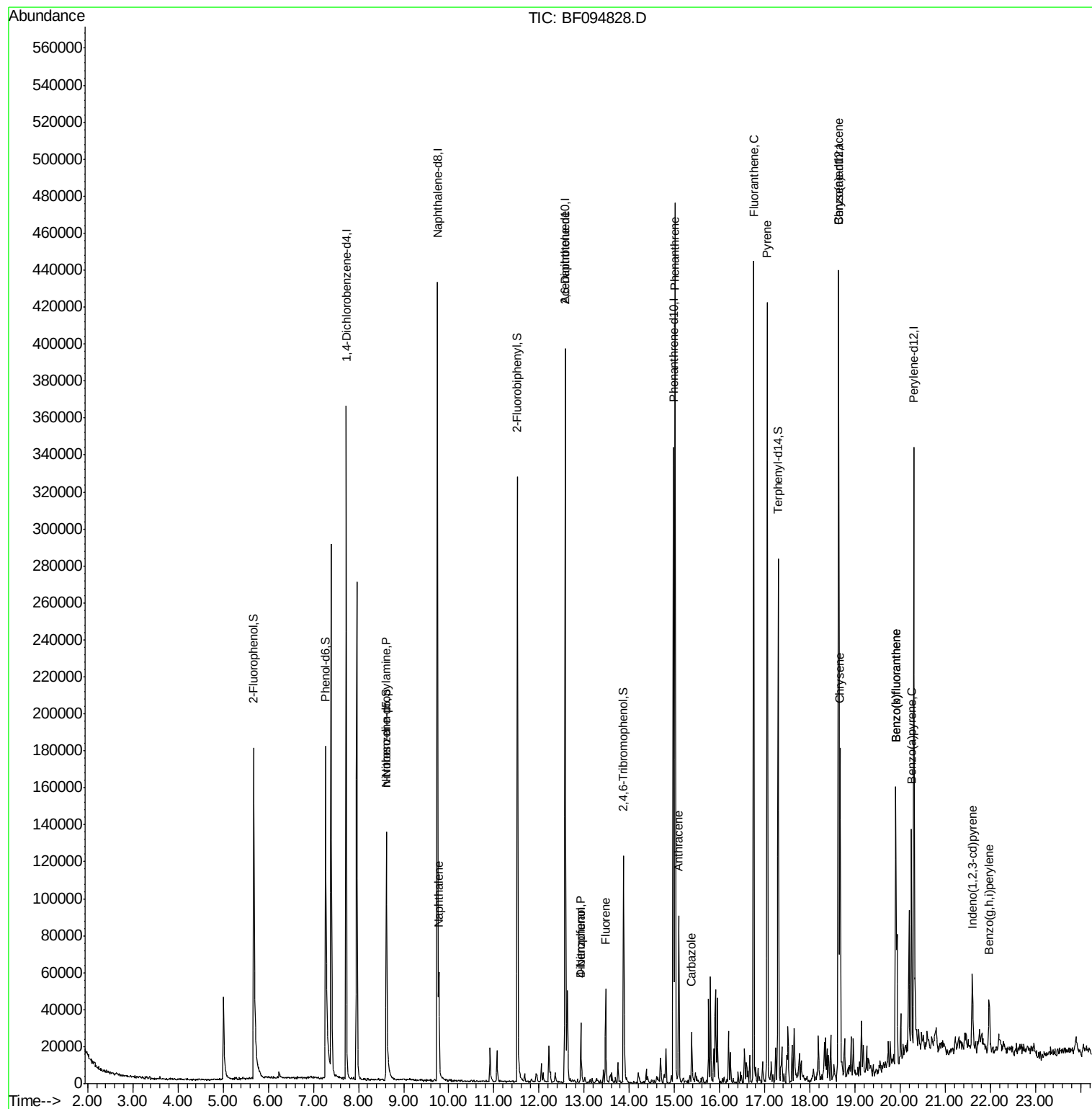
Quant Time: May 03 12:01:17 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 02 17:18:57 2017
 Response via : Initial Calibration

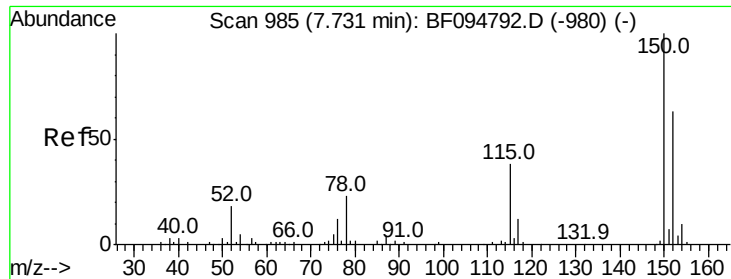
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	72601	20.00	ng	0.00
21) Naphthalene-d8	9.75	136	286213	20.00	ng	0.00
38) Acenaphthene-d10	12.58	164	119662	20.00	ng	0.00
63) Phenanthrene-d10	14.98	188	173539	20.00	ng	0.00
75) Chrysene-d12	18.64	240	152865	20.00	ng	-0.01
86) Perylene-d12	20.31	264	131819	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.68	112	112635	25.87	ng	0.00
7) Phenol-d6	7.27	99	142524	27.28	ng	-0.01
23) Nitrobenzene-d5	8.62	82	78007	17.19	ng	-0.02
41) 2,4,6-Tribromophenol	13.87	330	20075	20.48	ng	-0.01
44) 2-Fluorobiphenyl	11.52	172	151345	18.20	ng	-0.01
78) Terphenyl-d14	17.30	244	102237	14.73	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.62	70	9870	2.79	ng	# 74
31) Naphthalene	9.78	128	35481	2.47	ng	97
50) 2,6-Dinitrotoluene	12.58	165	12703	6.34	ng	# 31
54) Dibenzofuran	12.92	168	21900	2.08	ng	95
55) 4-Nitrophenol	12.92	139	8655	6.70	ng	# 25
57) Fluorene	13.47	166	22729	2.48	ng	99
70) Phenanthrene	15.01	178	246947	24.77	ng	97
71) Anthracene	15.09	178	52424	5.15	ng	95
72) Carbazole	15.38	167	19677	2.12	ng	97
74) Fluoranthene	16.75	202	218707	21.38	ng	97
77) Pyrene	17.05	202	177185	15.50	ng	95
80) Benzo(a)anthracene	18.63	228	78176	8.79	ng	98
82) Chrysene	18.67	228	70333	8.18	ng	99
85) Indeno(1,2,3-cd)pyrene	21.60	276	24694	3.53	ng	97
87) Benzo(b)fluoranthene	19.90	252	102853	12.63	ng	97
88) Benzo(k)fluoranthene	19.90	252	102853	13.09	ng	96
89) Benzo(a)pyrene	20.25	252	53038	7.06	ng	97
91) Benzo(g,h,i)perylene	21.97	276	20632	3.39	ng	96

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

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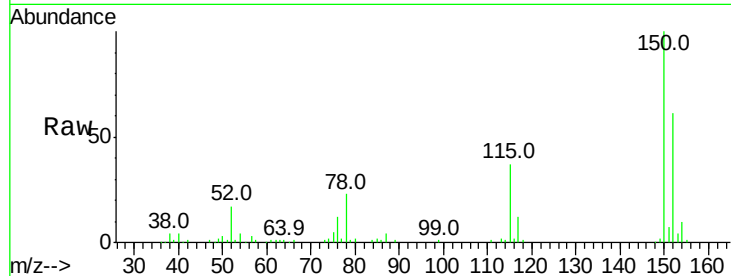




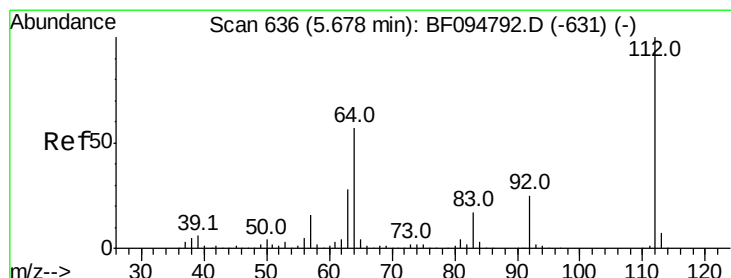
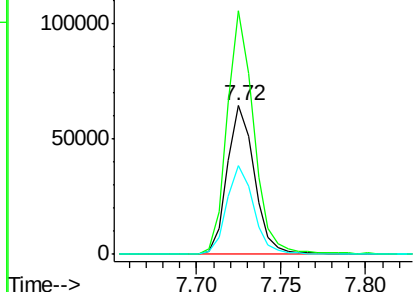
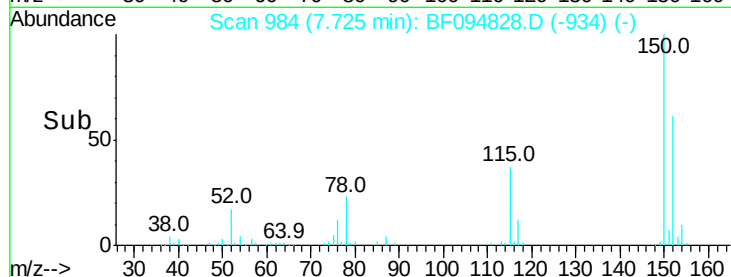
#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 984
Delta R.T. -0.01 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.6	126.2	189.2
115	59.9	52.2	78.2



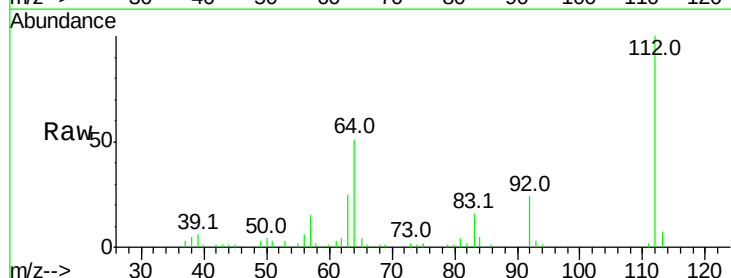
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



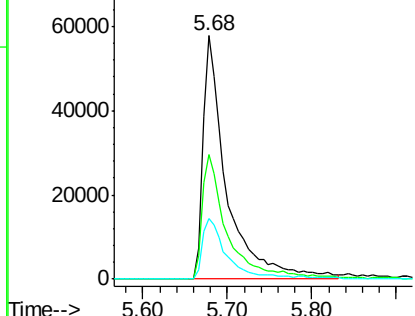
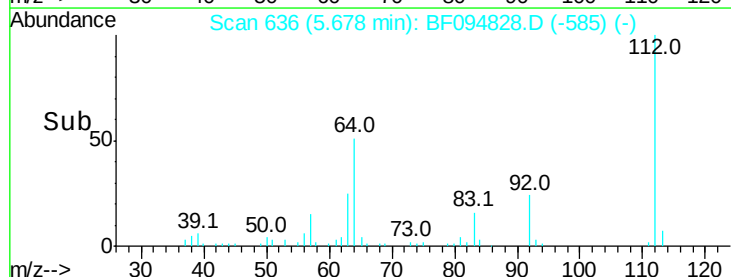
#5

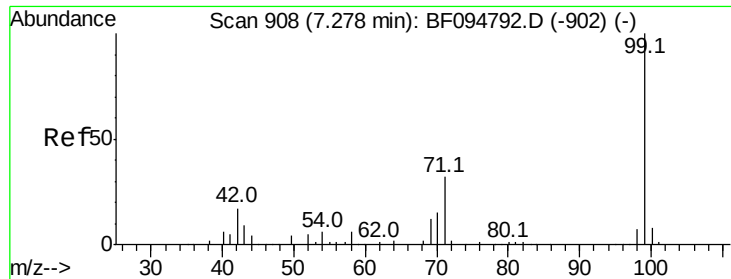
2-Fluorophenol
Concen: 25.87 ng
RT: 5.68 min Scan# 636
Delta R.T. 0.00 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.3	46.0	69.0
63	24.9	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: 27.28 ng

RT: 7.27 min Scan# 906

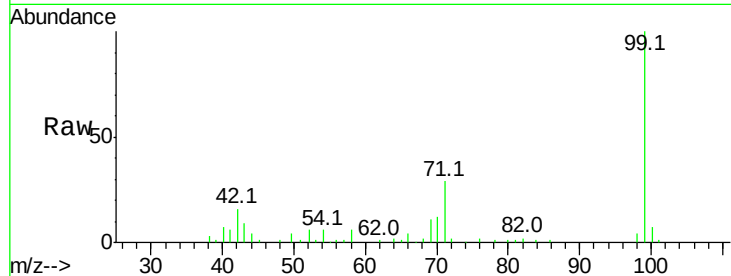
Delta R.T. -0.01 min

Lab File: BF094828.D

Acq: 3 May 2017 11:00

Tot Ion: 99 Resp: 142524

Ion	Ratio	Lower	Upper
99	100		
42	15.8	13.5	20.3
71	28.8	24.5	36.7

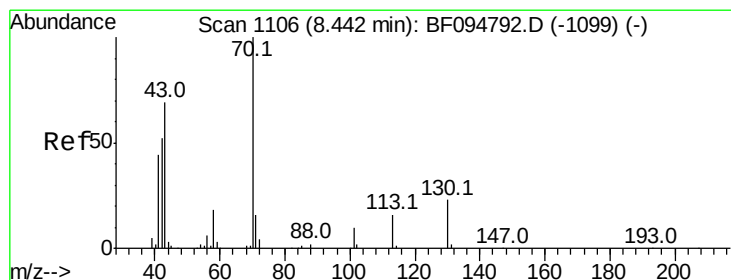
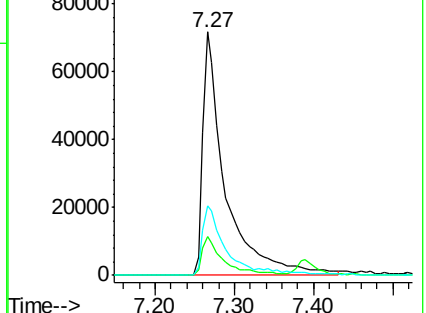
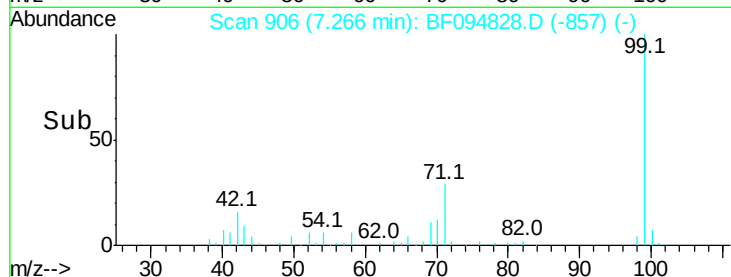


Abundance

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



#19

n-Nitroso-di-n-propylamine

Concen: 2.79 ng

RT: 8.62 min Scan# 1136

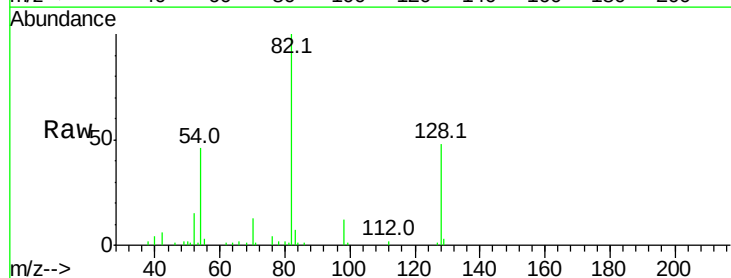
Delta R.T. 0.18 min

Lab File: BF094828.D

Acq: 3 May 2017 11:00

Tgt Ion: 70 Resp: 9870

Ion	Ratio	Lower	Upper
70	100		
42	43.7	47.2	70.8#
101	0.0	7.2	10.8#
130	0.0	15.9	23.9#



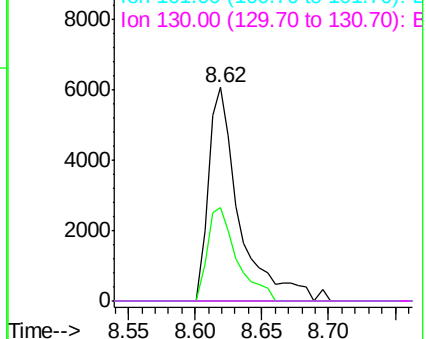
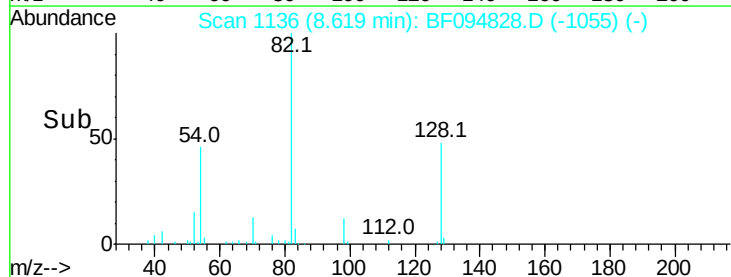
Abundance

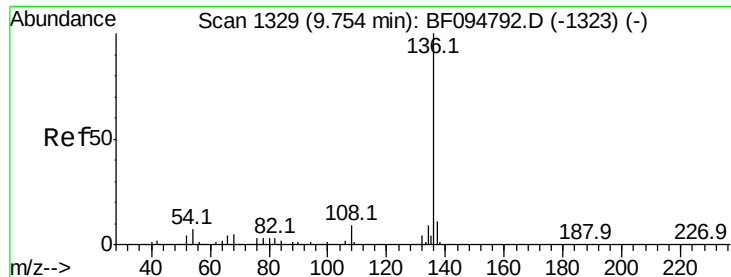
Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

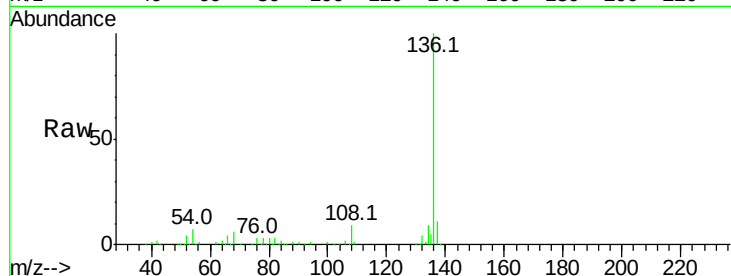
Ion 130.00 (129.70 to 130.70): BF0



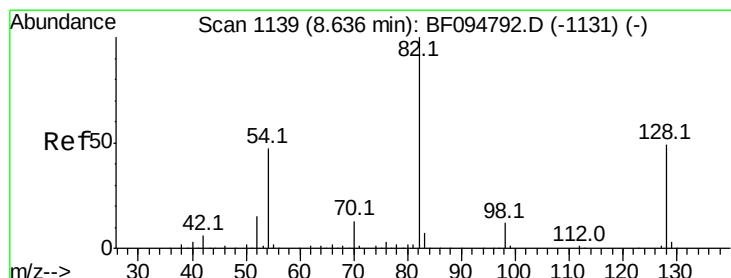
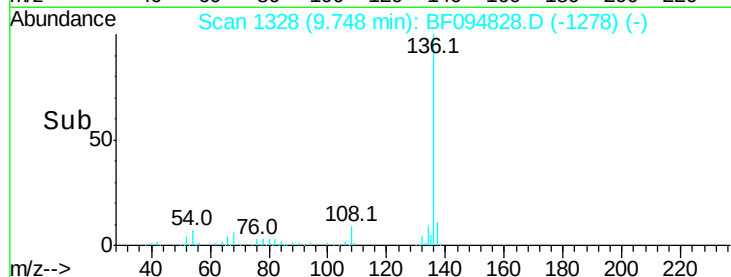
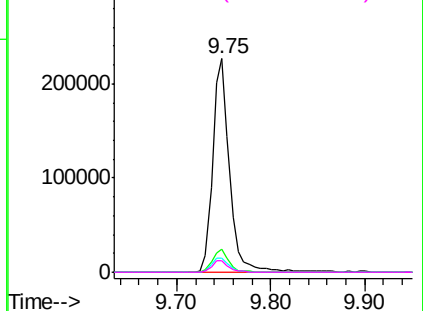


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.75 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tot Ion:136	Resp:	286213
Ion Ratio	Lower	Upper
136	100	
137	10.7	8.5 12.7
54	6.8	4.9 7.3
68	5.6	4.1 6.1

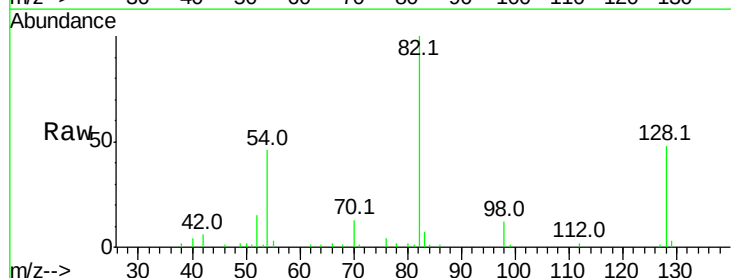


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

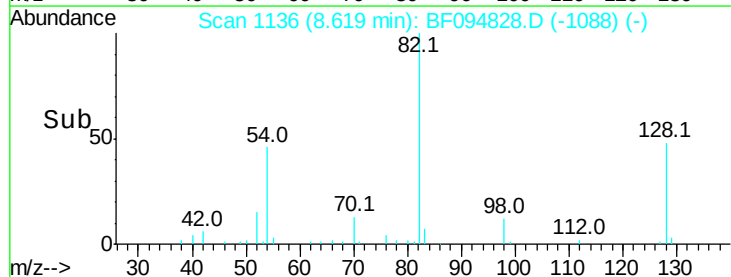
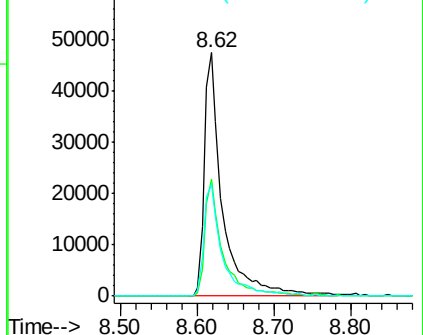


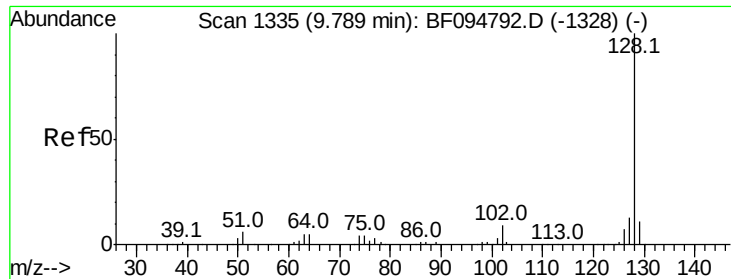
#23
Nitrobenzene-d5
Concen: 17.19 ng
RT: 8.62 min Scan# 1136
Delta R.T. -0.02 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tgt Ion: 82	Resp:	78007
Ion Ratio	Lower	Upper
82	100	
128	47.9	34.0 51.0
54	45.9	42.2 63.2



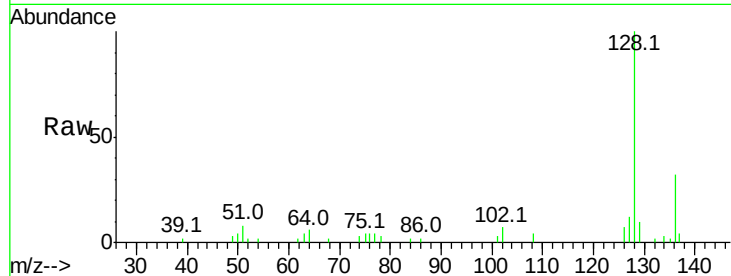
Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



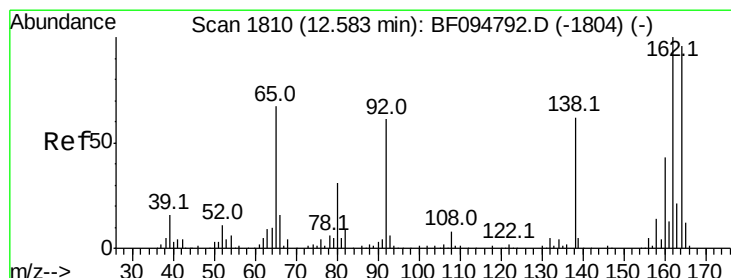
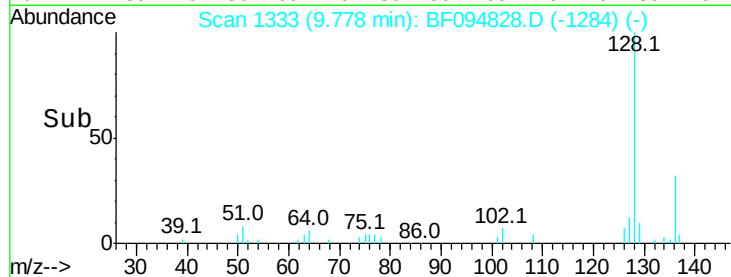
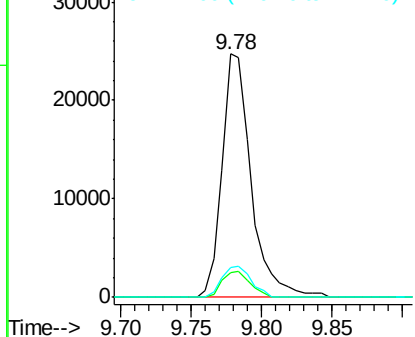


#31
Naphthalene
Concen: 2.47 ng
RT: 9.78 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tot Ion:128 Resp: 35481
Ion Ratio Lower Upper
128 100
129 10.0 9.0 13.6
127 12.3 10.8 16.2

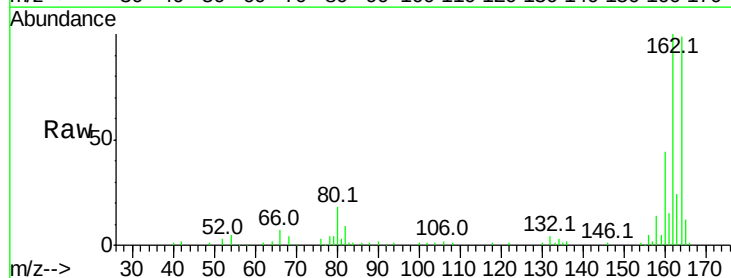


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

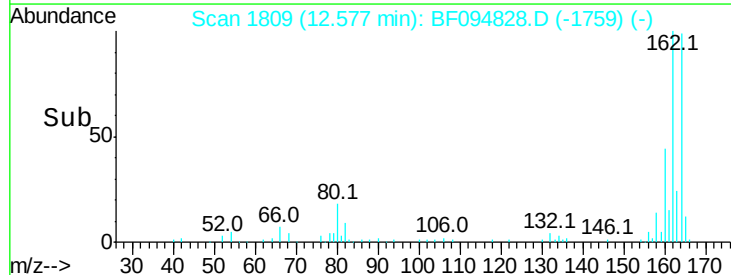
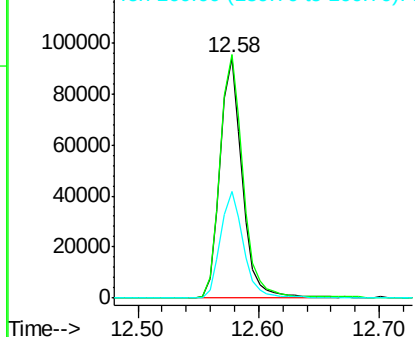


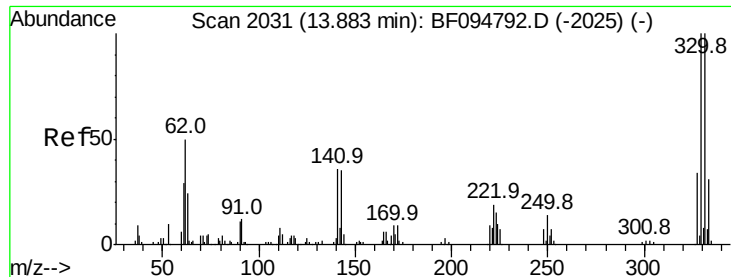
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.58 min Scan# 1809
Delta R.T. -0.01 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tgt Ion:164 Resp: 119662
Ion Ratio Lower Upper
164 100
162 101.5 82.6 123.8
160 44.2 36.2 54.2



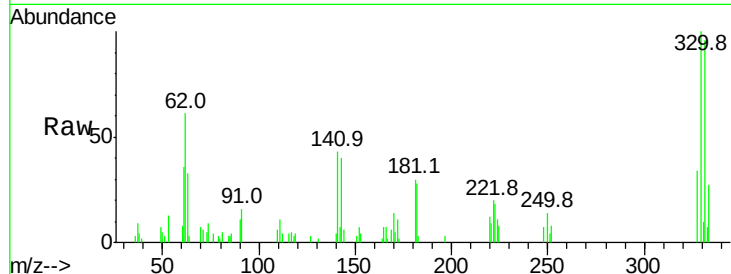
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



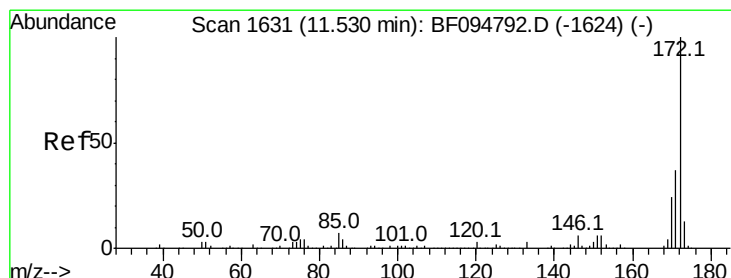
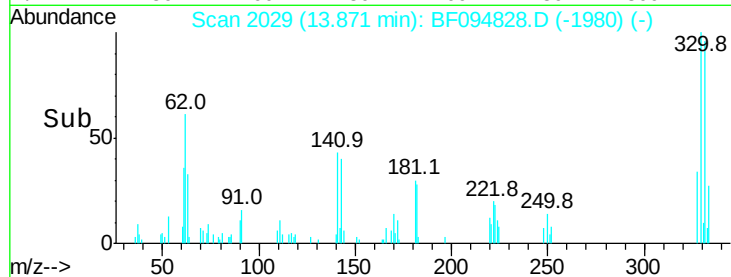
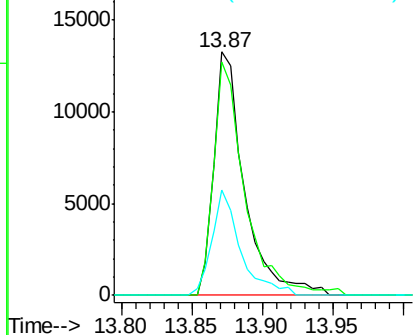


#41
 2,4,6-Tribromophenol
 Concen: 20.48 ng
 RT: 13.87 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.0	76.6	115.0
141	40.6	31.4	47.2

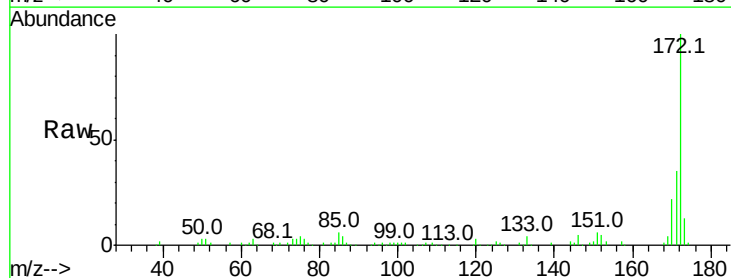


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

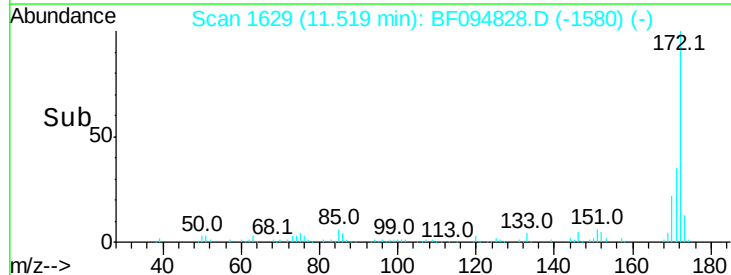
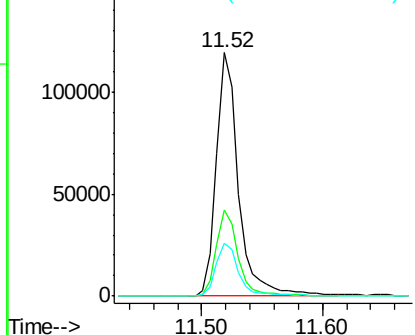


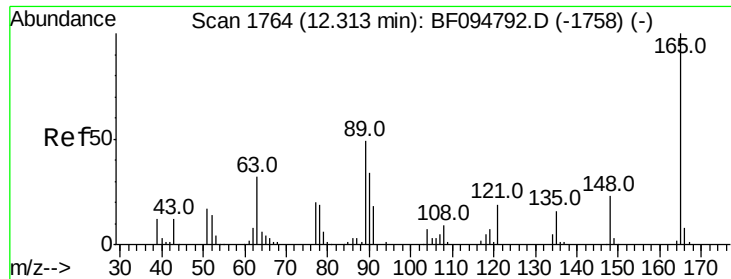
#44
 2-Fluorobiphenyl
 Concen: 18.20 ng
 RT: 11.52 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.6	44.4
170	21.9	19.8	29.8



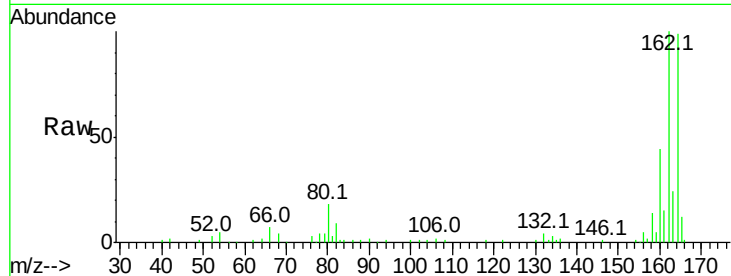
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#50
 2,6-Dinitrotoluene
 Concen: 6.34 ng
 RT: 12.58 min Scan# 1809
 Delta R.T. 0.26 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

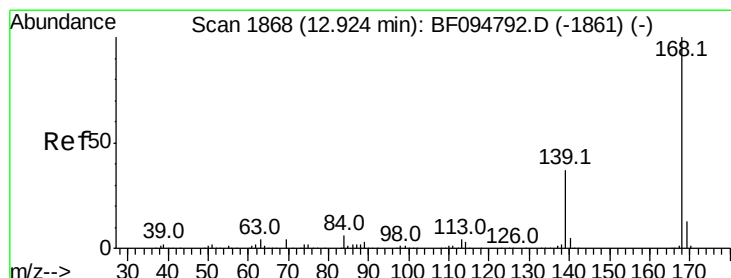
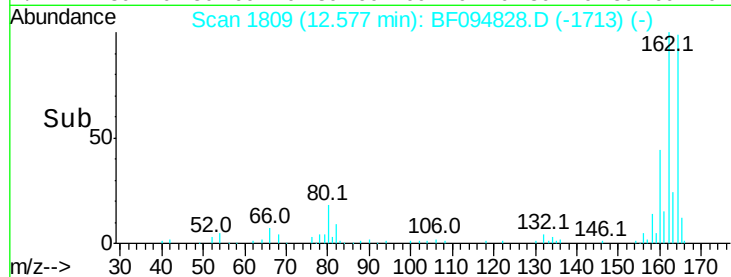
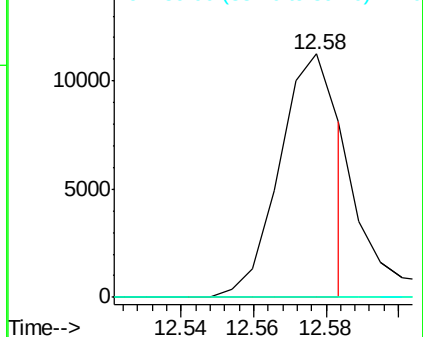
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#



Abundance Ion 165.00 (164.70 to 165.70): E

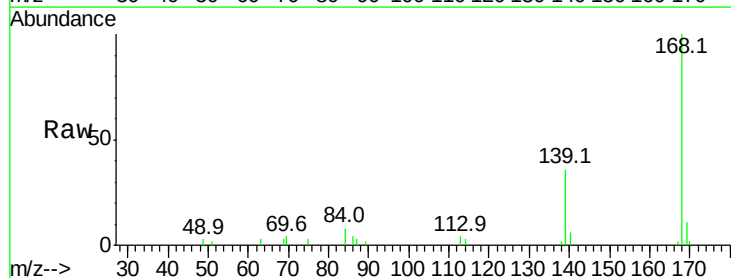
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#54
 Dibenzofuran
 Concen: 2.08 ng
 RT: 12.92 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

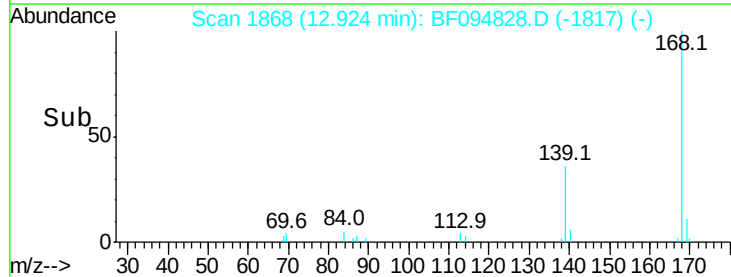
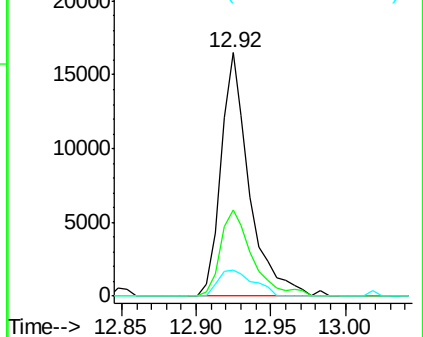
Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.5	30.6	45.8
169	10.9	10.8	16.2

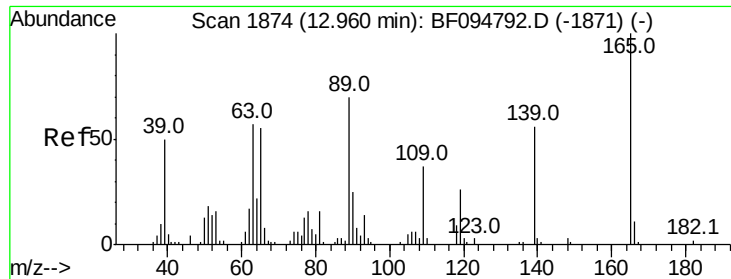


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

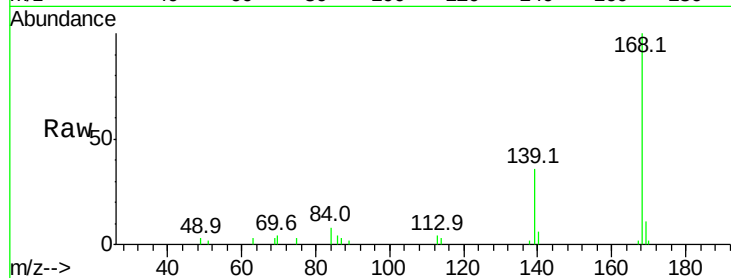
Ion 169.00 (168.70 to 169.70): E



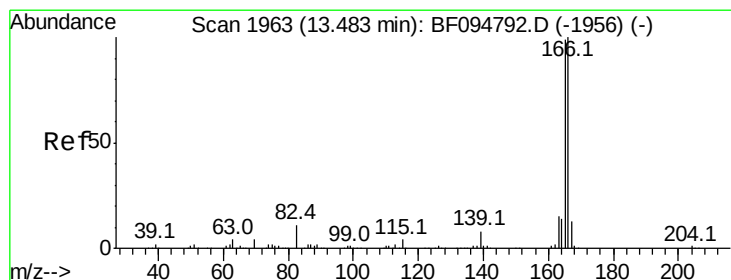
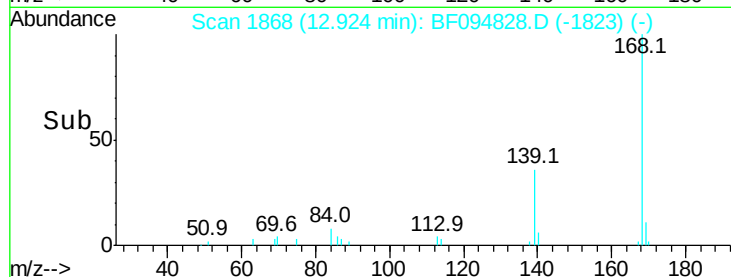
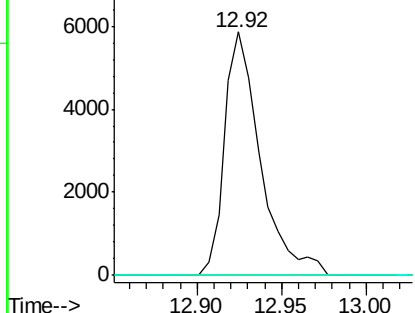


#55
4-Nitrophenol
Concen: 6.70 ng
RT: 12.92 min Scan# 1868
Delta R.T. -0.04 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	34.1	74.1#
65	0.0	31.4	71.4#

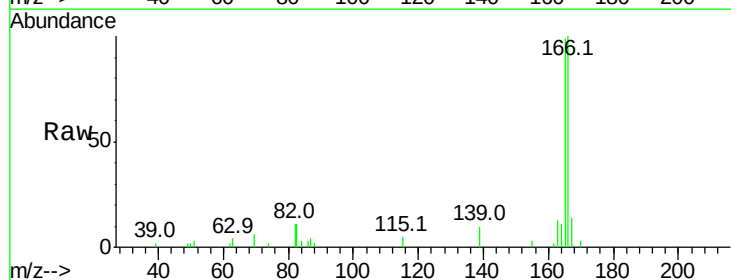


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): E

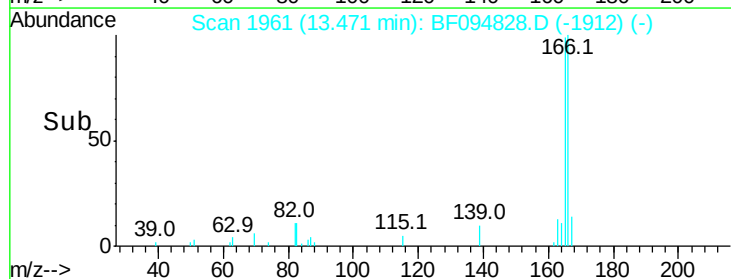
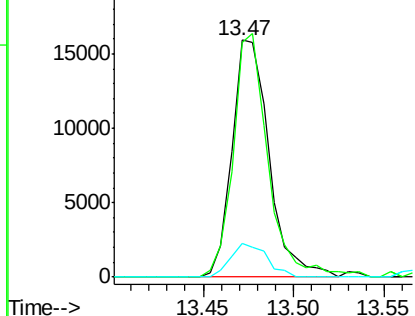


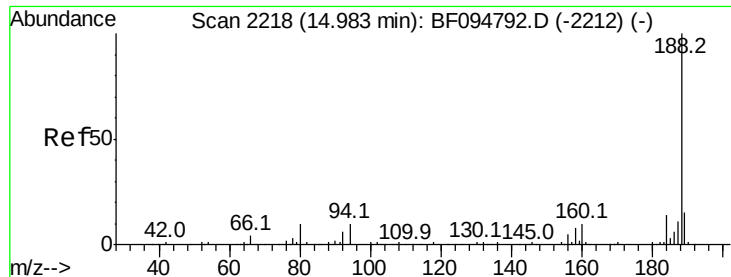
#57
Fluorene
Concen: 2.48 ng
RT: 13.47 min Scan# 1961
Delta R.T. -0.01 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.8	118.2
167	14.5	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: BF094828.D

Acq: 3 May 2017 11:00

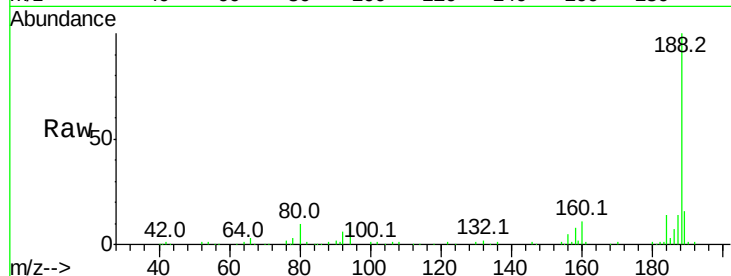
Tot Ion:188 Resp: 173539

Ion Ratio Lower Upper

188 100

94 9.5 9.4 14.2

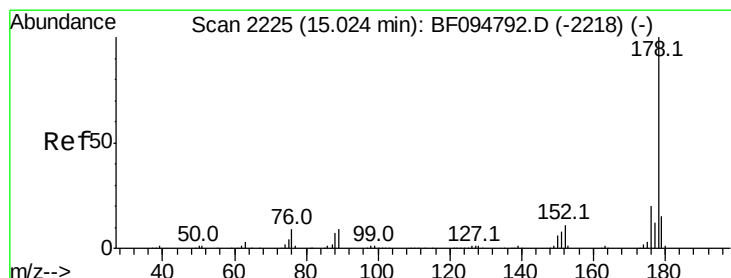
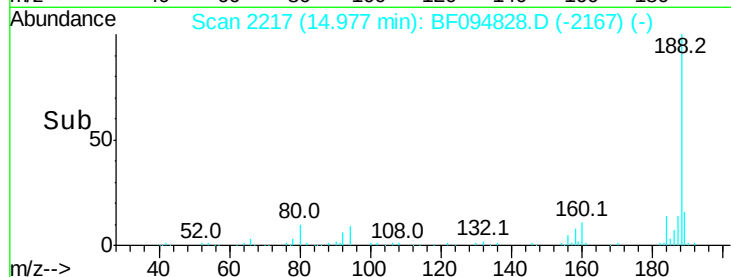
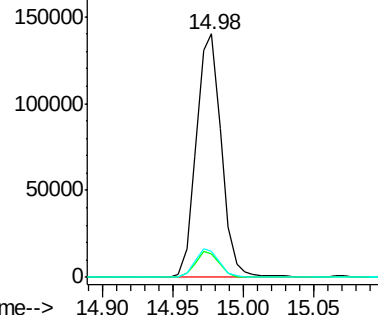
80 10.5 10.2 15.2



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: 24.77 ng

RT: 15.01 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BF094828.D

Acq: 3 May 2017 11:00

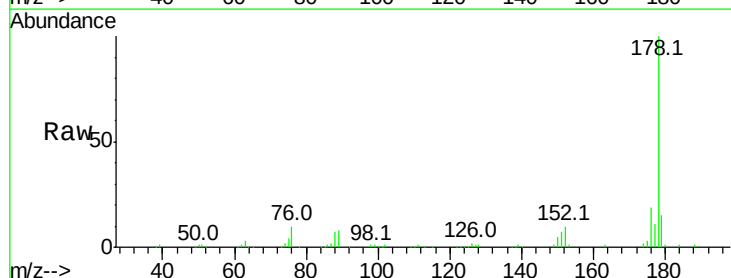
Tgt Ion:178 Resp: 246947

Ion Ratio Lower Upper

178 100

176 18.7 16.2 24.4

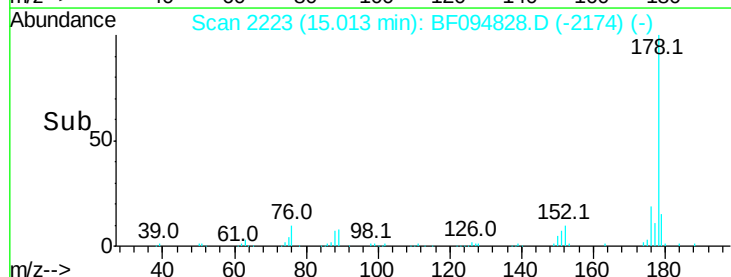
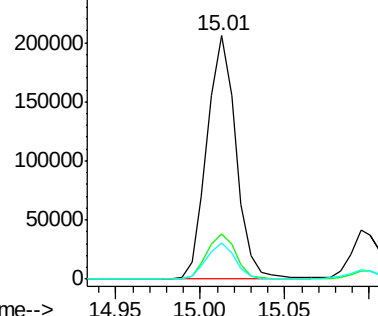
179 14.9 12.6 19.0

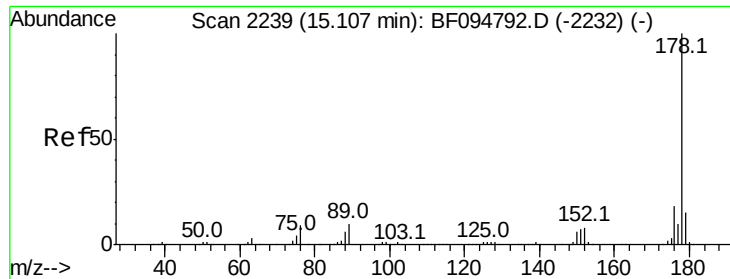


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

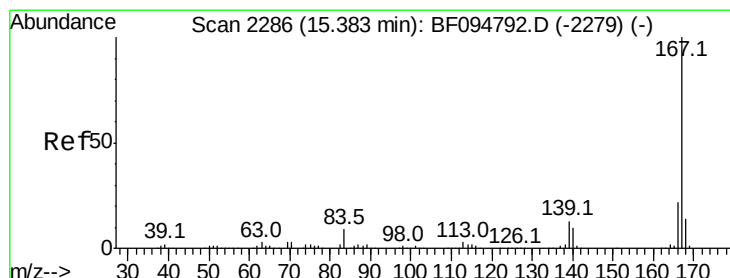
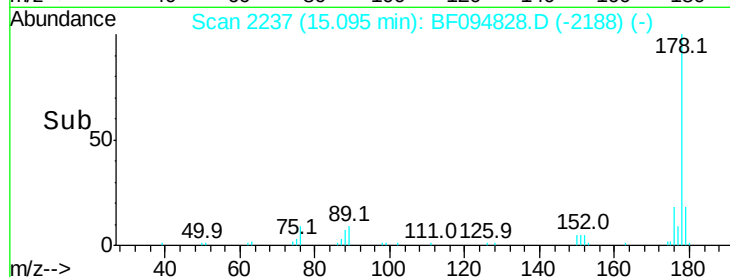
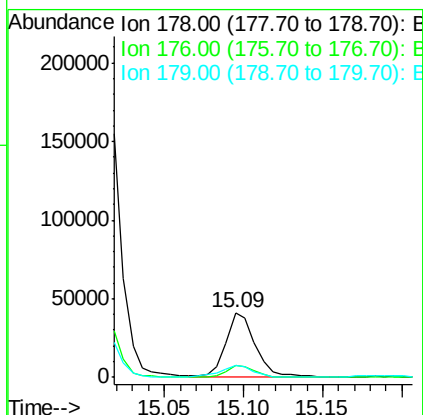
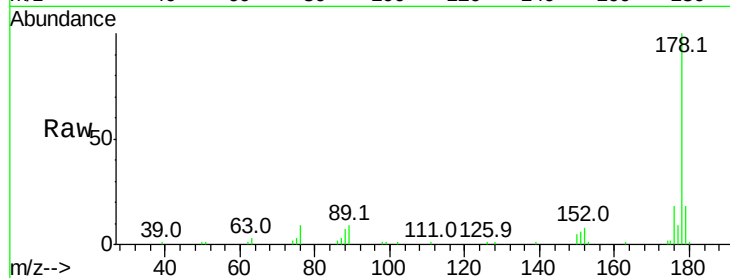
Ion 179.00 (178.70 to 179.70): E





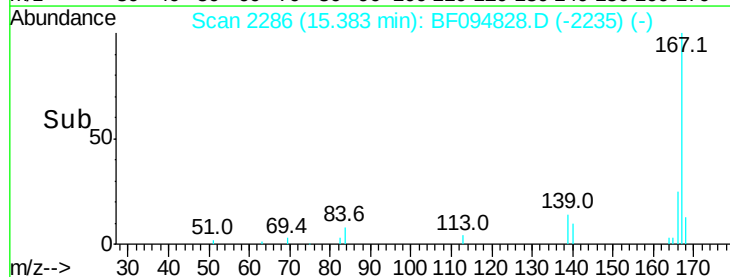
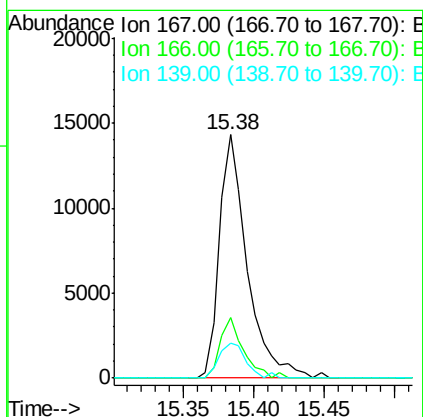
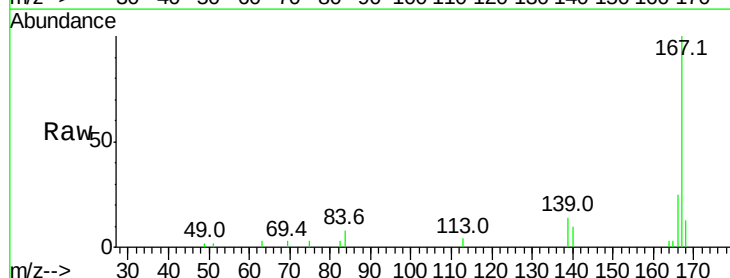
#71
 Anthracene
 Concen: 5.15 ng
 RT: 15.09 min Scan# 2237
 Delta R.T. -0.01 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

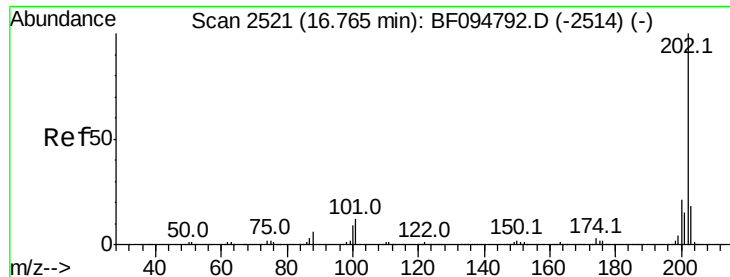
Tot Ion:178 Resp: 52424
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.8 23.8
 179 18.3 12.7 19.1



#72
 Carbazole
 Concen: 2.12 ng
 RT: 15.38 min Scan# 2286
 Delta R.T. 0.00 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

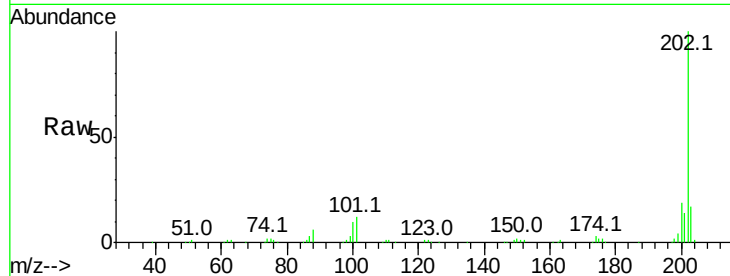
Tgt Ion:167 Resp: 19677
 Ion Ratio Lower Upper
 167 100
 166 24.9 18.1 27.1
 139 14.5 11.7 17.5



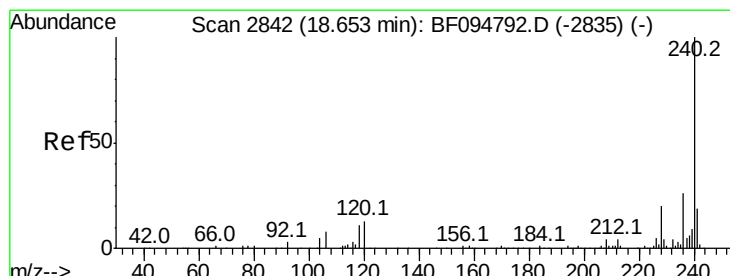
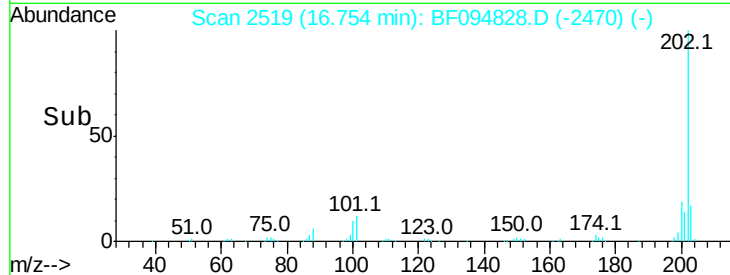
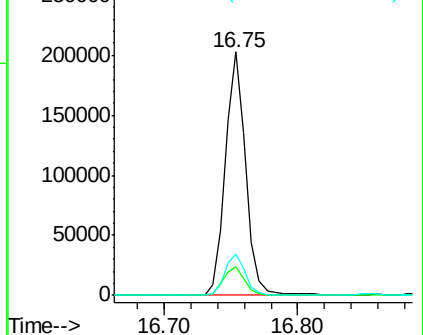


#74
 Fluoranthene
 Concen: 21.38 ng
 RT: 16.75 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

Tot Ion:	202	Resp:	218707
Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	33.2
203	17.2	0.0	38.1

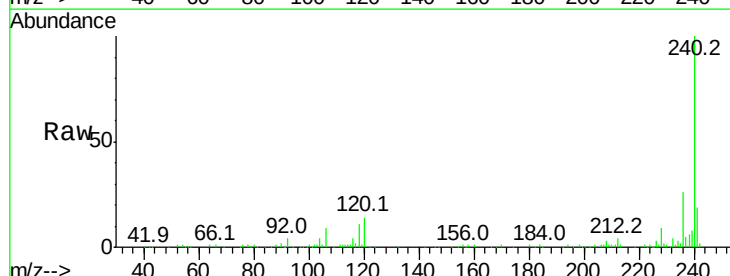


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

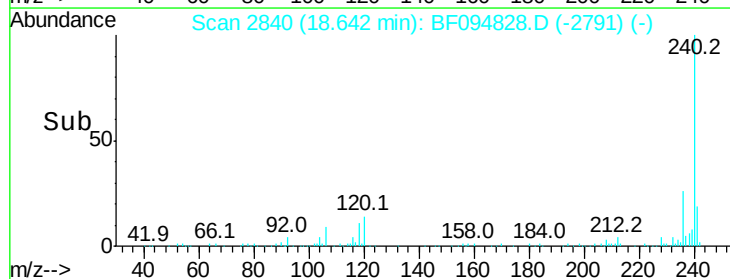
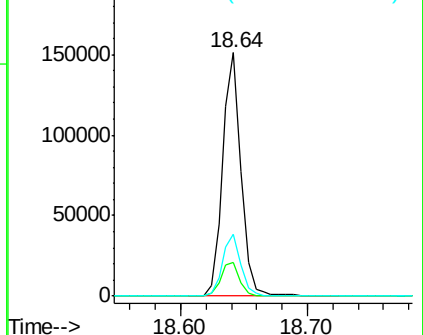


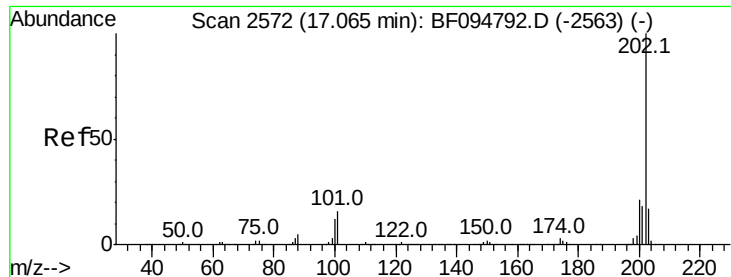
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.64 min Scan# 2840
 Delta R.T. -0.01 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

Tgt Ion:	240	Resp:	152865
Ion	Ratio	Lower	Upper
240	100		
120	13.7	5.8	8.8#
236	25.6	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

Pvrene

Concen: 15.50 ng

RT: 17.05 min Scan# 2570

Delta R.T. -0.01 min

Lab File: BF094828.D

Acq: 3 May 2017 11:00

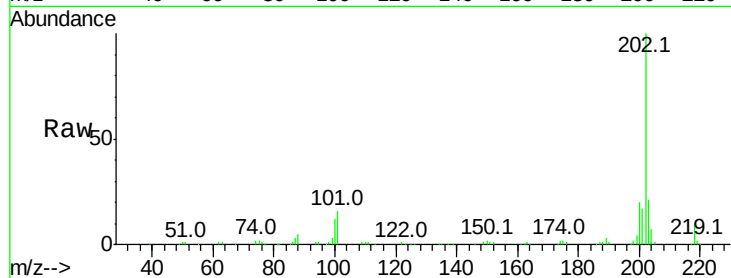
Tot Ion:202 Resp: 177185

Ion Ratio Lower Upper

202 100

200 20.1 17.6 26.4

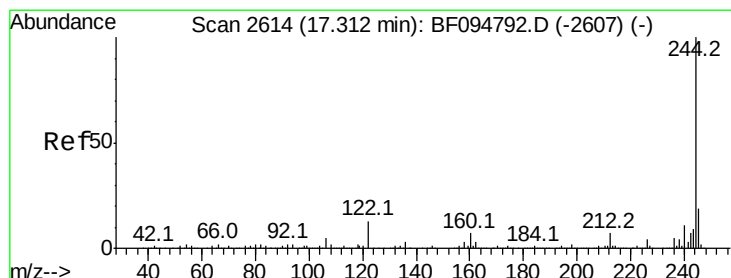
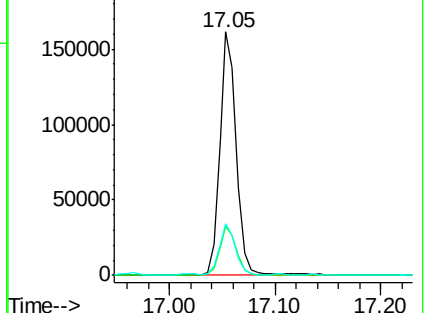
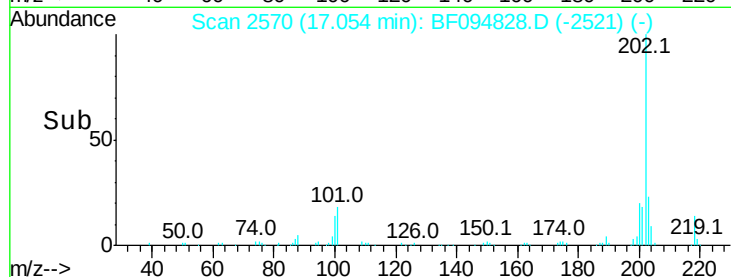
203 21.1 14.4 21.6



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: 14.73 ng

RT: 17.30 min Scan# 2612

Delta R.T. -0.01 min

Lab File: BF094828.D

Acq: 3 May 2017 11:00

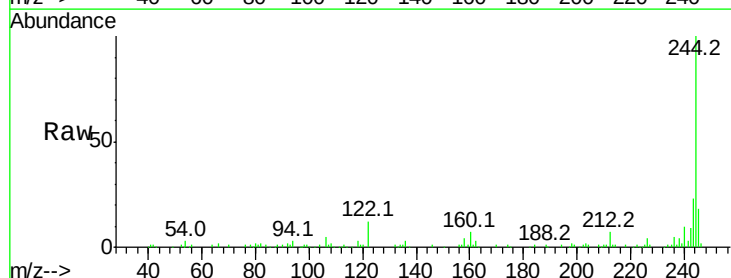
Tgt Ion:244 Resp: 102237

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

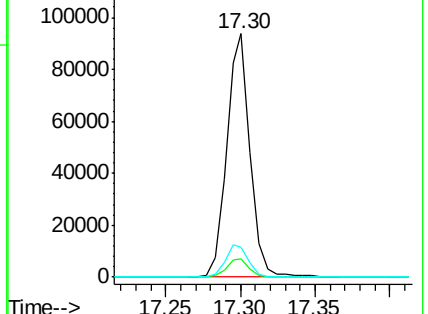
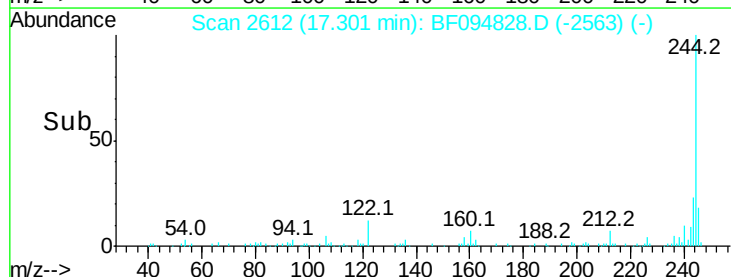
122 12.4 10.3 15.5

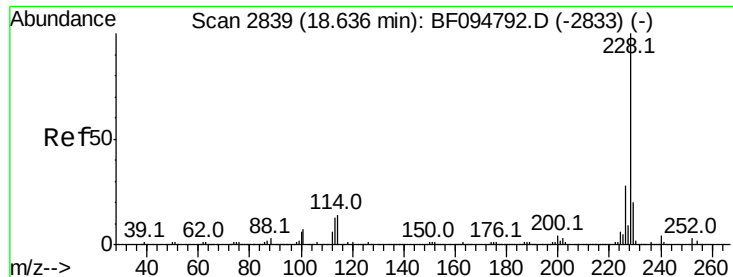


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

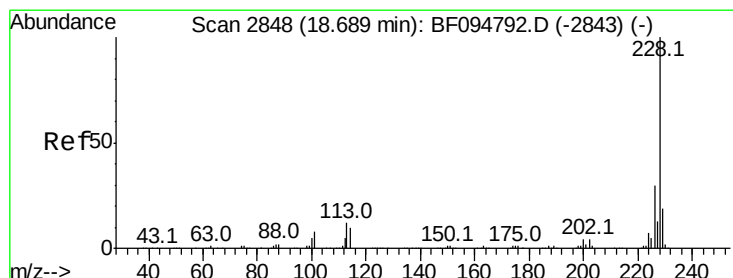
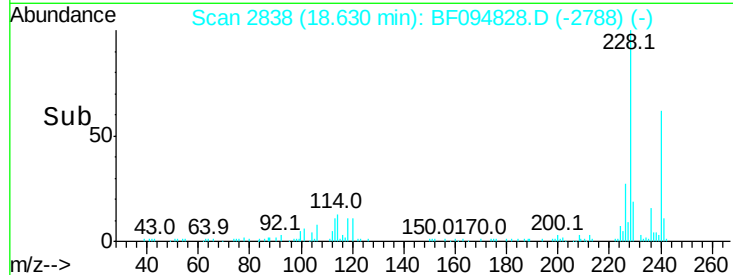
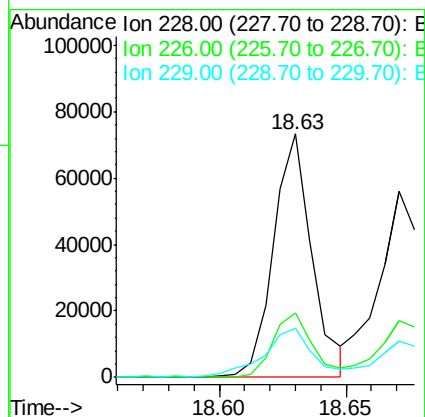
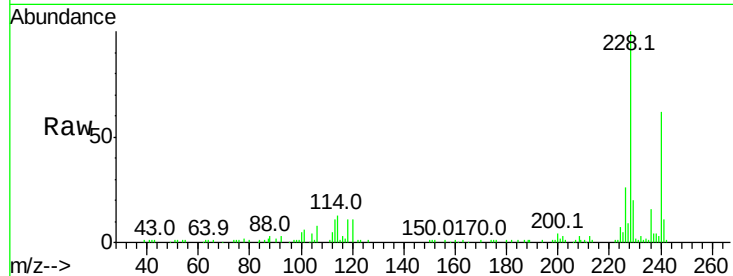
Ion 122.00 (121.70 to 122.70): E





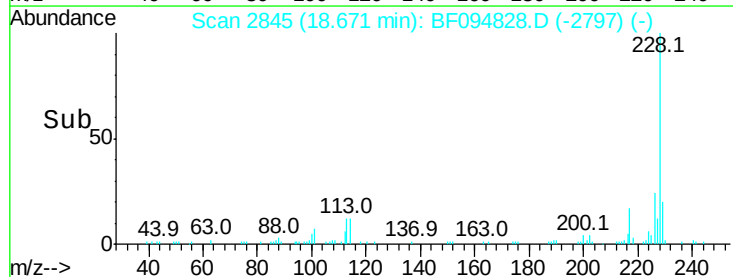
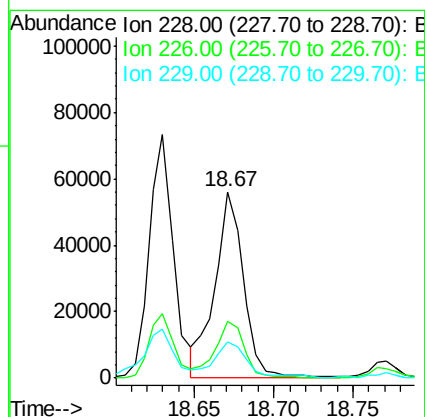
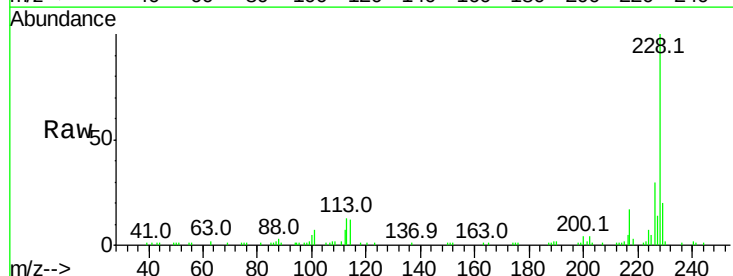
#80
Benzo(a)anthracene
Concen: 8.79 ng
RT: 18.63 min Scan# 2838
Delta R.T. -0.01 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

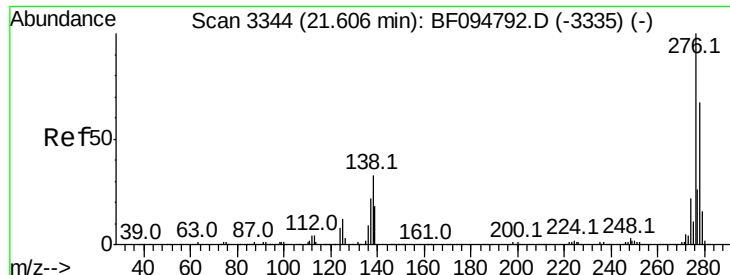
Tot Ion:228 Resp: 78176
Ion Ratio Lower Upper
228 100
226 26.5 22.6 33.8
229 20.0 16.3 24.5



#82
Chrysene
Concen: 8.18 ng
RT: 18.67 min Scan# 2845
Delta R.T. -0.02 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

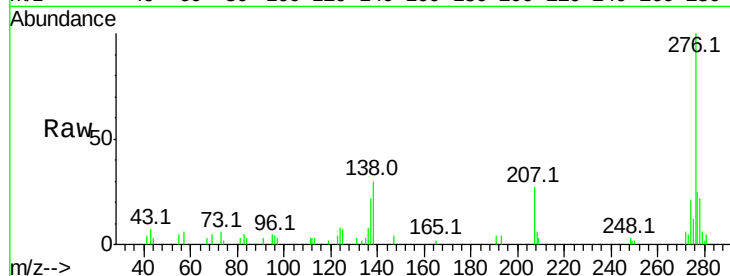
Tgt Ion:228 Resp: 70333
Ion Ratio Lower Upper
228 100
226 30.4 24.9 37.3
229 19.6 15.8 23.6



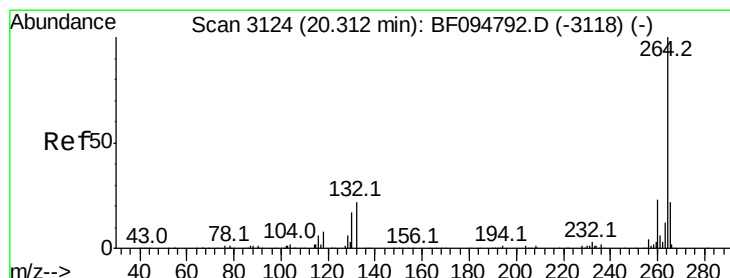
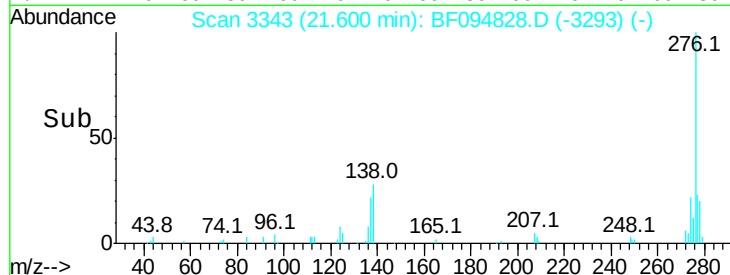
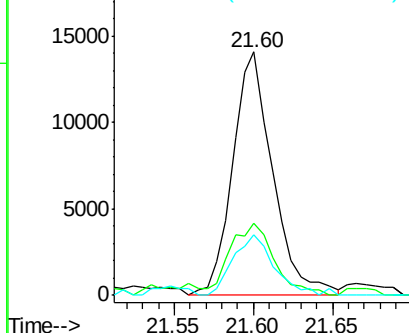


#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.53 ng
 RT: 21.60 min Scan# 3343
 Delta R.T. -0.01 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

Tot Ion	Ratio	Lower	Upper
276	100		
138	32.2	27.8	41.6
277	25.7	20.2	30.4

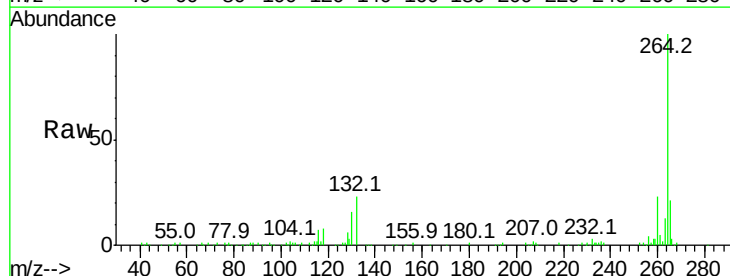


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

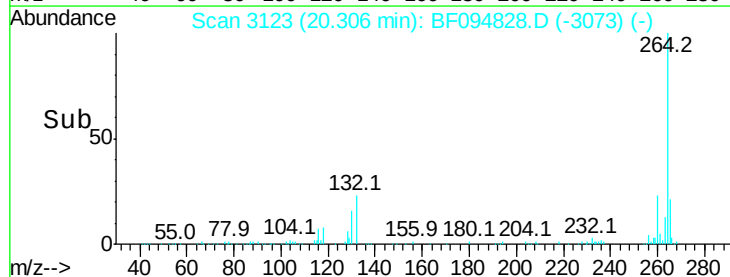
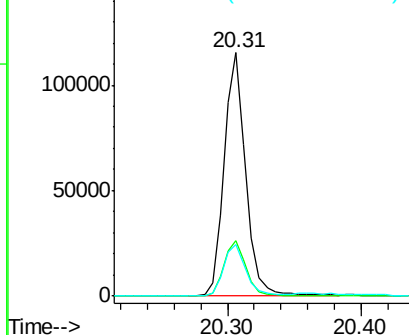


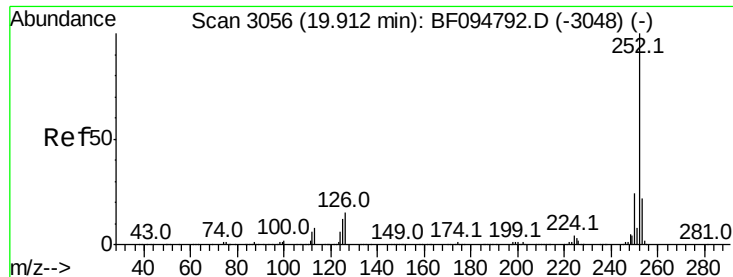
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.31 min Scan# 3123
 Delta R.T. -0.01 min
 Lab File: BF094828.D
 Acq: 3 May 2017 11:00

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.5	29.3
265	21.4	17.2	25.8



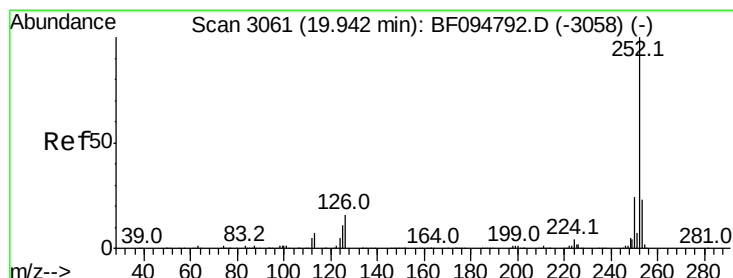
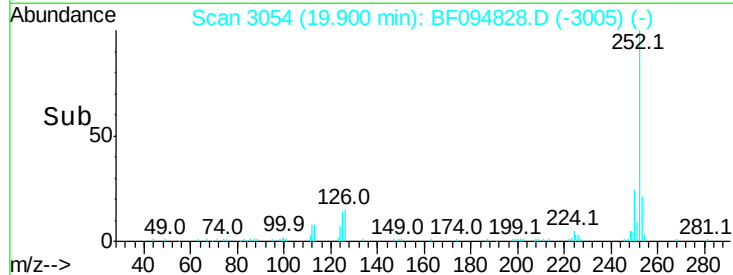
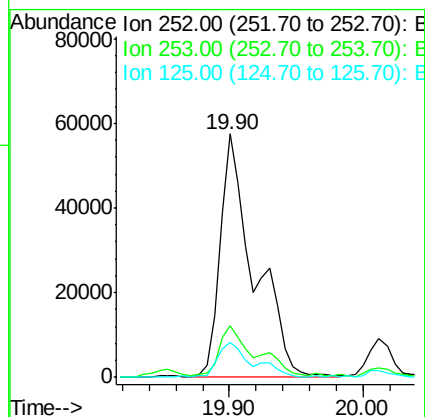
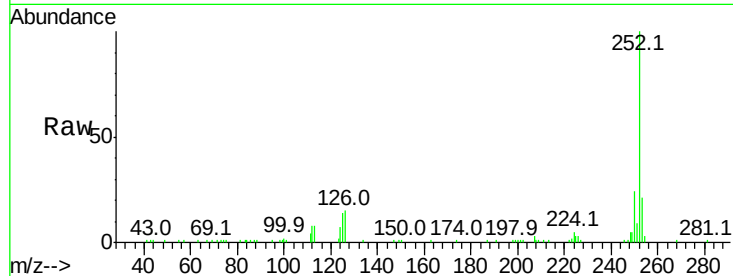
Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





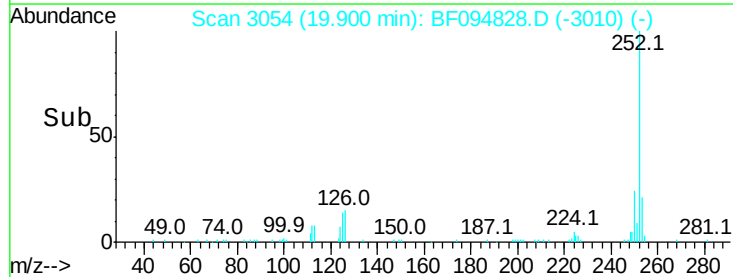
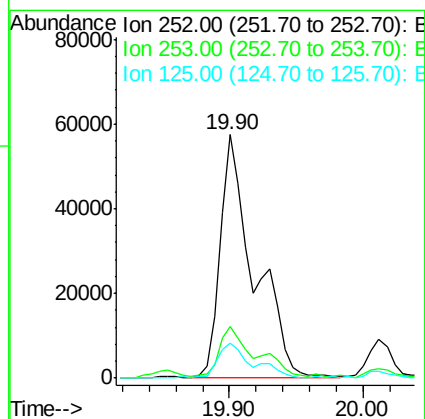
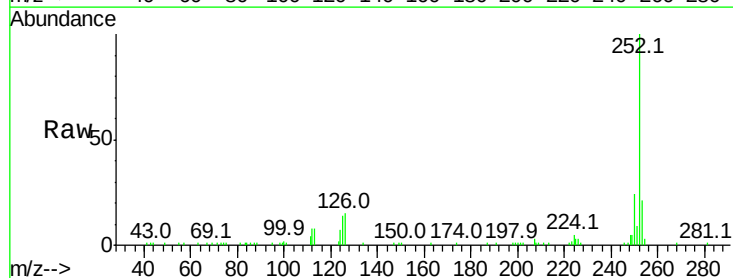
#87
Benzo(b)fluoranthene
Concen: 12.63 ng
RT: 19.90 min Scan# 3054
Delta R.T. -0.01 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

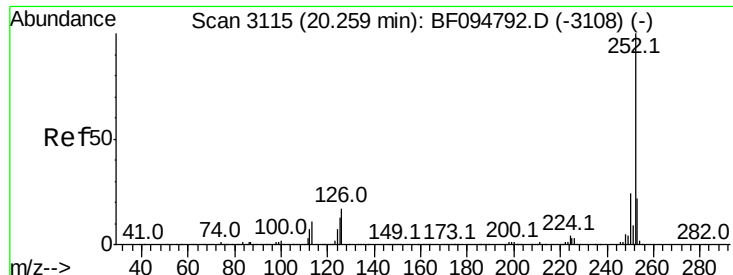
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.1	27.1
125	14.2	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 13.09 ng
RT: 19.90 min Scan# 3054
Delta R.T. -0.04 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

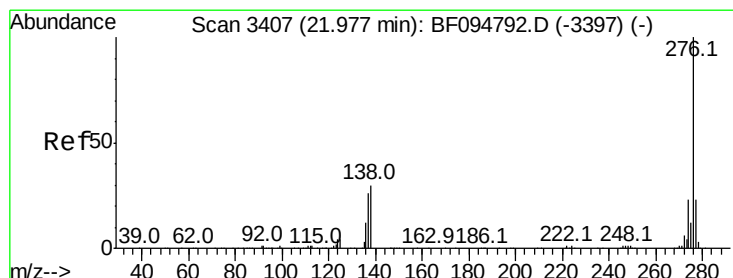
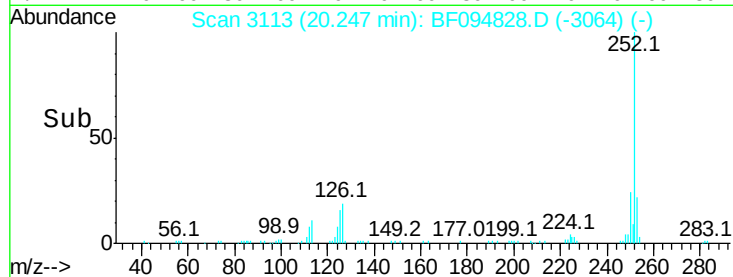
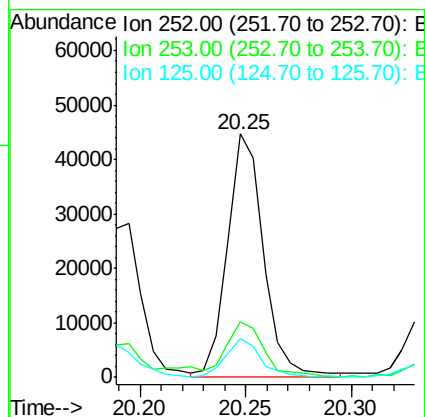
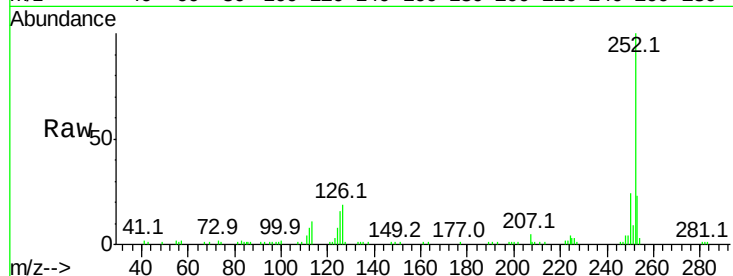
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.4	27.6
125	14.2	13.1	19.7





#89
Benzo(a)pyrene
Concen: 7.06 ng
RT: 20.25 min Scan# 3113
Delta R.T. -0.01 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tot Ion:	252	Resp:	53038
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	16.1	11.0	16.4



#91
Benzo(g,h,i)perylene
Concen: 3.39 ng
RT: 21.97 min Scan# 3406
Delta R.T. -0.01 min
Lab File: BF094828.D
Acq: 3 May 2017 11:00

Tgt Ion:	276	Resp:	20632
Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.6	28.0
138	34.1	25.4	38.0

