

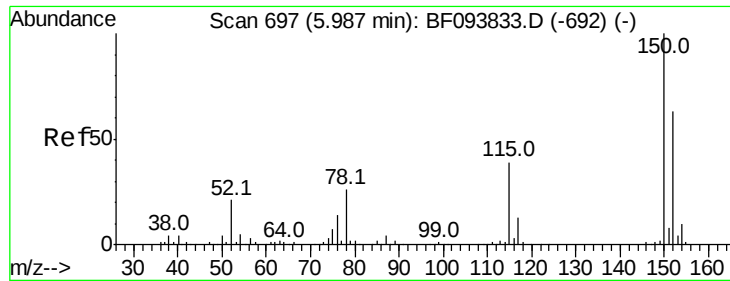
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094153.D
 Acq On : 4 Apr 2017 7:33
 Operator : SJ/MA
 Sample : I2510-05
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-N11-BASE

Quant Time: Apr 04 07:56:29 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	165234	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	611814	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	235027	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	351481	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	299389	20.00	ng	-0.01
86) Perylene-d12	16.25	264	204044	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.43	112	999652	102.18	ng	0.00
7) Phenol-d6	5.50	99	1233008	101.88	ng	-0.01
23) Nitrobenzene-d5	6.53	82	659418	61.51	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	177214	95.42	ng	-0.01
44) 2-Fluorobiphenyl	8.72	172	1293520	83.95	ng	-0.02
78) Terphenyl-d14	13.34	244	878892	65.80	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	6.53	70	90329	11.61	ng	# 76
31) Naphthalene	7.42	128	133372	4.53	ng	99
37) 2-Methylnaphthalene	8.26	142	62649	3.19	ng	96
48) Acenaphthylene	9.36	152	195360	7.92	ng	100
49) Dimethylphthalate	9.21	163	130355	7.80	ng	100
70) Phenanthrene	11.39	178	222664	11.39	ng	98
71) Anthracene	11.45	178	146721	7.29	ng	98
74) Fluoranthene	12.86	202	600477	29.99	ng	98
77) Pyrene	13.13	202	662376	30.49	ng	99
80) Benzo(a)anthracene	14.65	228	420993	24.11	ng	97
82) Chrysene	14.65	228	420993	25.99	ng	97
85) Indeno(1,2,3-cd)pyrene	17.60	276	250364	17.84	ng	94
87) Benzo(b)fluoranthene	15.84	252	741011	59.25	ng	# 97
88) Benzo(k)fluoranthene	15.84	252	741011	60.55	ng	99
89) Benzo(a)pyrene	16.19	252	317310	27.55	ng	# 95
90) Dibenzo(a,h)anthracene	17.62	278	53428	5.48	ng	# 86
91) Benzo(a,h,i)perylene	18.00	276	257324	26.18	ng	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.89 min Scan# 680

Delta R.T. -0.02 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Instrument :

BNA_F

ClientSampleId :

E2-N11-BASE

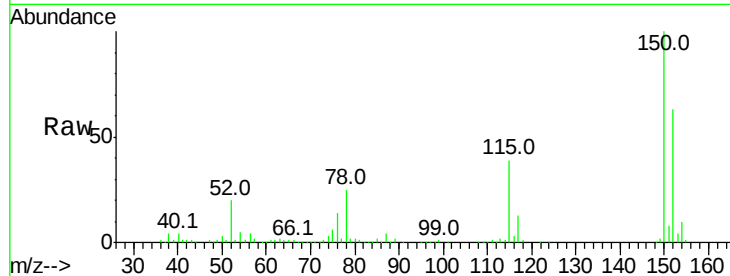
Tot Ion:152 Resp: 165234

Ion Ratio Lower Upper

152 100

150 159.9 126.2 189.2

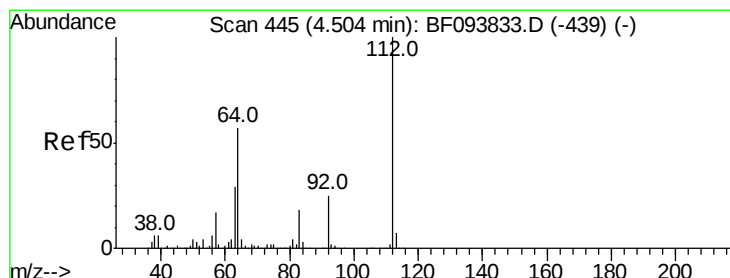
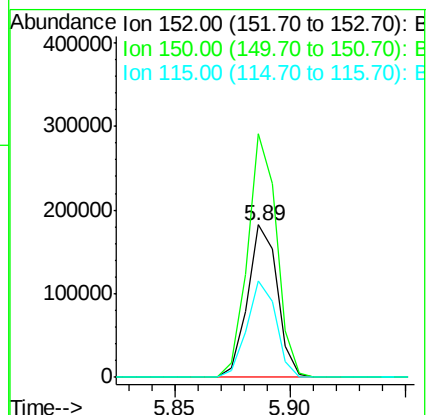
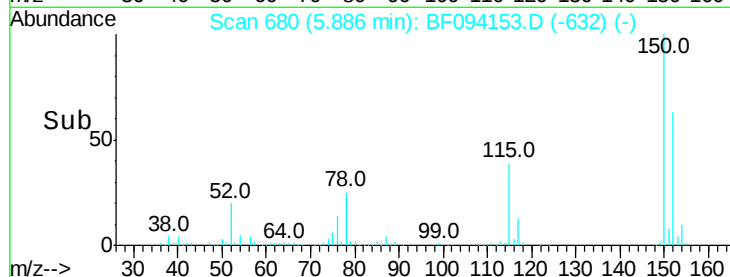
115 63.1 52.2 78.2



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: 102.18 ng

RT: 4.43 min Scan# 432

Delta R.T. -0.01 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

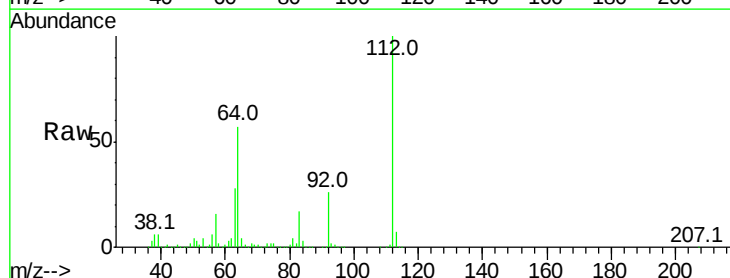
Tgt Ion:112 Resp: 999652

Ion Ratio Lower Upper

112 100

64 57.4 46.0 69.0

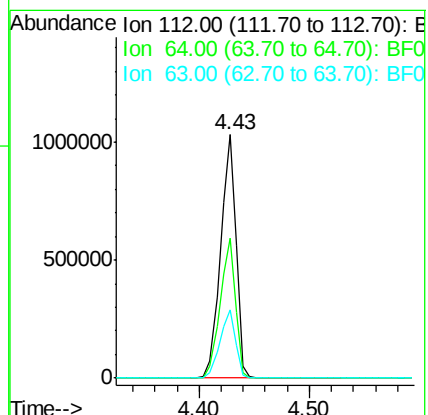
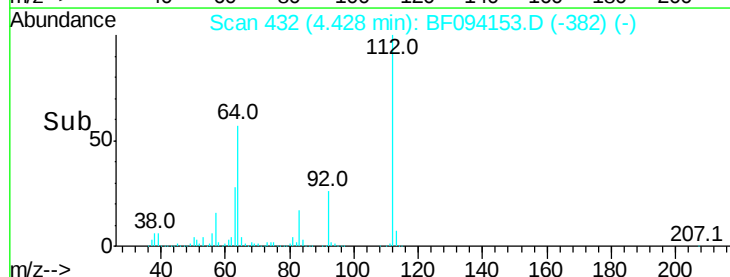
63 28.2 23.4 35.0

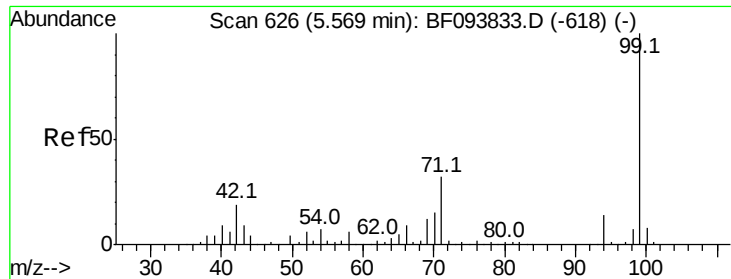


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 101.88 ng

RT: 5.50 min Scan# 614

Delta R.T. -0.01 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Instrument :

BNA_F

ClientSampleId :

E2-N11-BASE

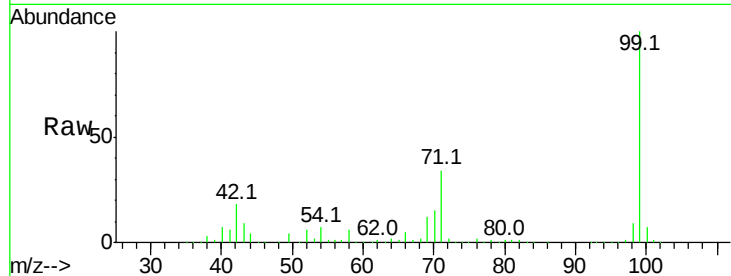
Tot Ion: 99 Resp: 1233008

Ion Ratio Lower Upper

99 100

42 18.3 13.5 20.3

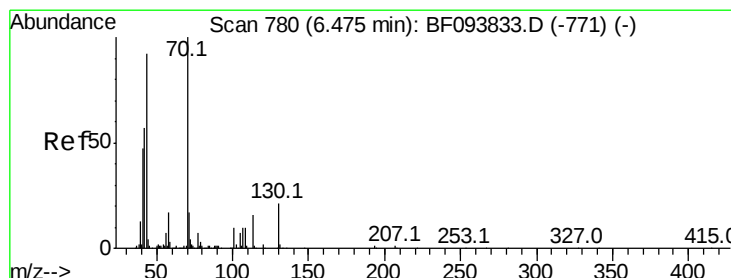
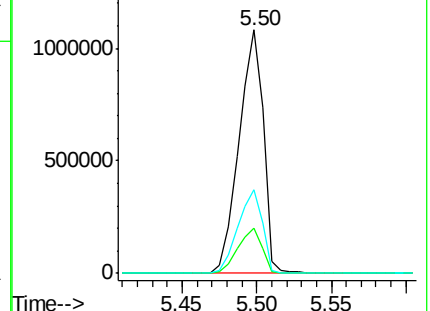
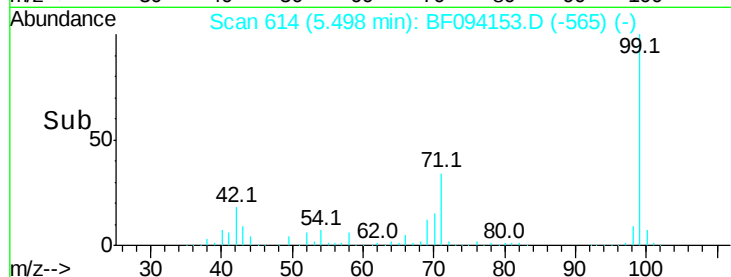
71 34.4 24.5 36.7



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: 11.61 ng

RT: 6.53 min Scan# 790

Delta R.T. 0.14 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Tgt Ion: 70 Resp: 90329

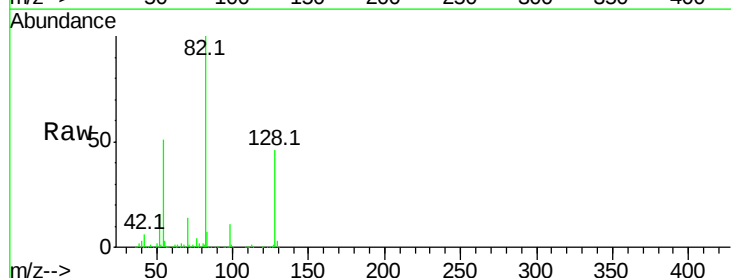
Ion Ratio Lower Upper

70 100

42 44.4 47.2 70.8#

101 0.0 7.2 10.8#

130 2.4 15.9 23.9#

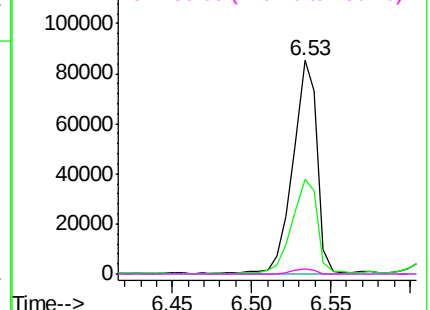
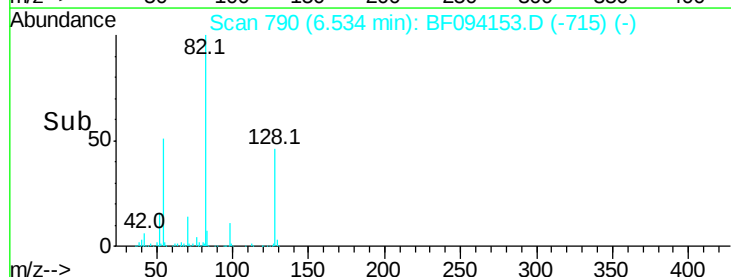


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.39 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Instrument :

BNA_F

ClientSampleId :

E2-N11-BASE

Tot Ion:136 Resp: 611814

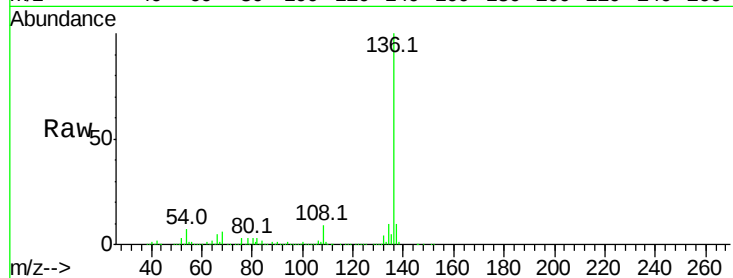
Ion Ratio Lower Upper

136 100

137 10.4 8.5 12.7

54 7.4 4.9 7.3#

68 5.8 4.1 6.1

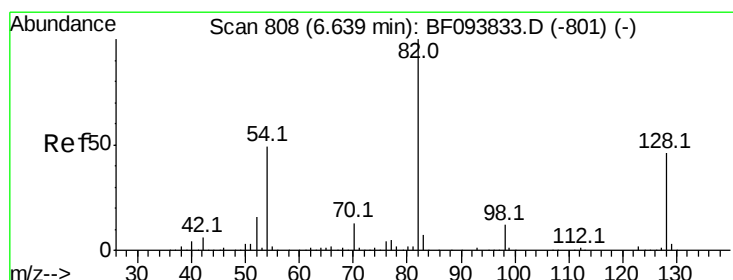
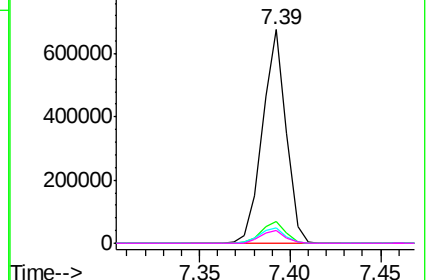
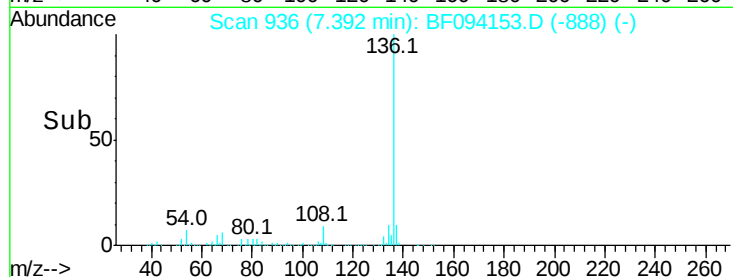


Abundance Ion 136.00 (135.70 to 136.70): E

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: 61.51 ng

RT: 6.53 min Scan# 790

Delta R.T. -0.02 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

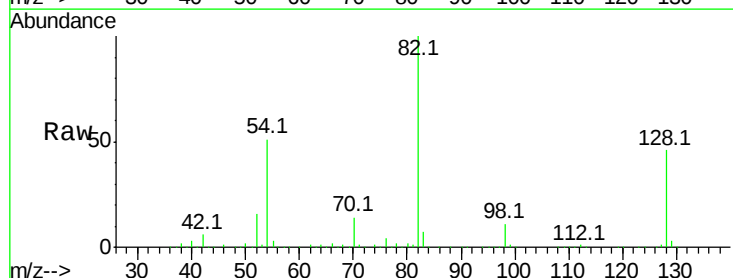
Tgt Ion: 82 Resp: 659418

Ion Ratio Lower Upper

82 100

128 46.4 34.0 51.0

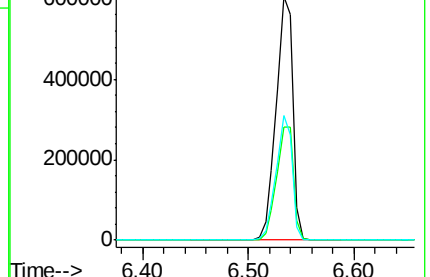
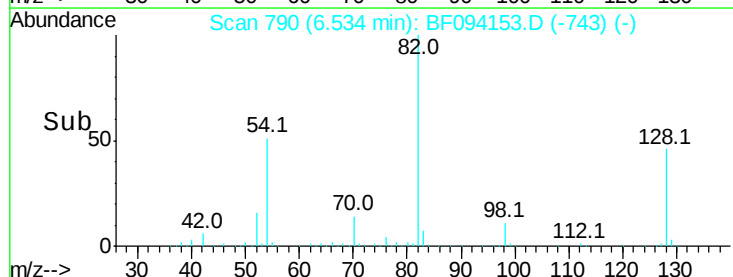
54 51.2 42.2 63.2

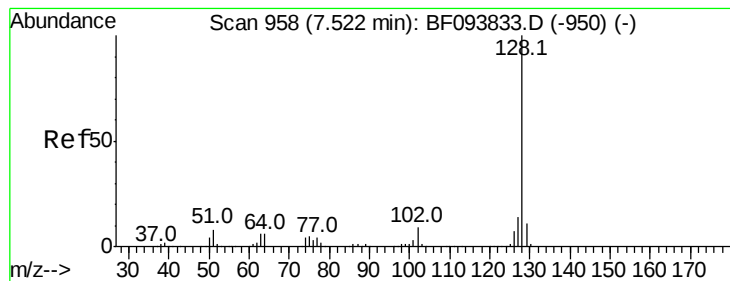


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 4.53 ng

RT: 7.42 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Instrument :

BNA_F

ClientSampleId :

E2-N11-BASE

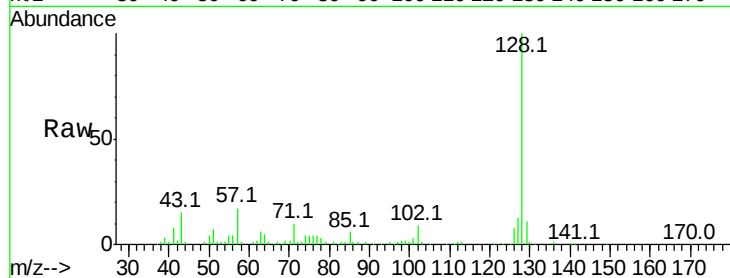
Tot Ion:128 Resp: 133372

Ion Ratio Lower Upper

128 100

129 11.3 9.0 13.6

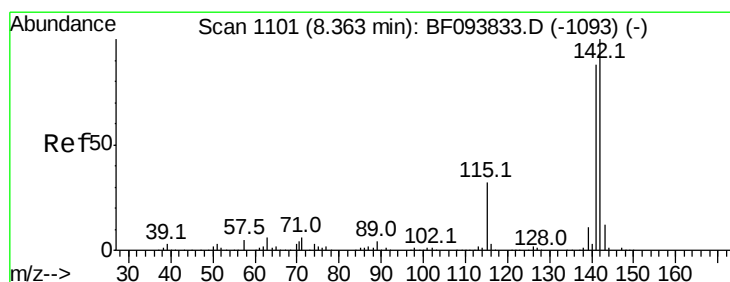
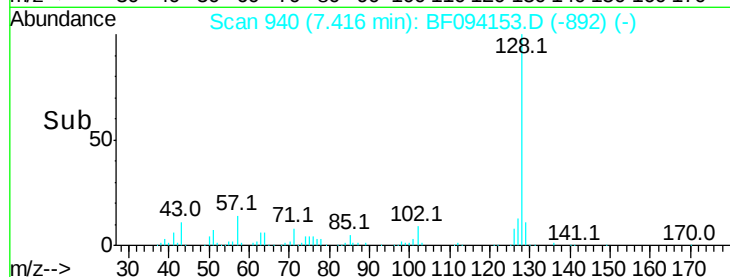
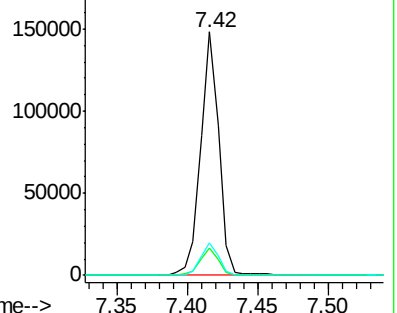
127 13.1 10.8 16.2



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



#37

2-Methylnaphthalene

Concen: 3.19 ng

RT: 8.26 min Scan# 1083

Delta R.T. -0.02 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

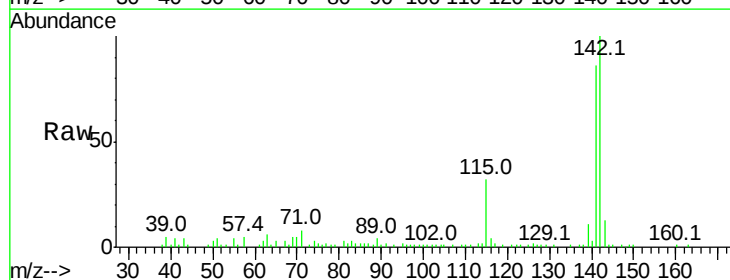
Tgt Ion:142 Resp: 62649

Ion Ratio Lower Upper

142 100

141 85.9 71.3 106.9

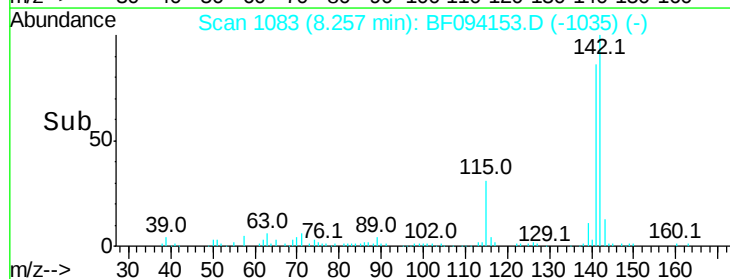
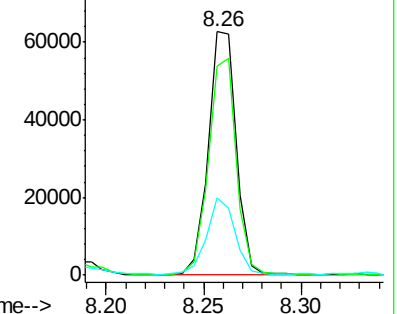
115 31.6 27.1 40.7

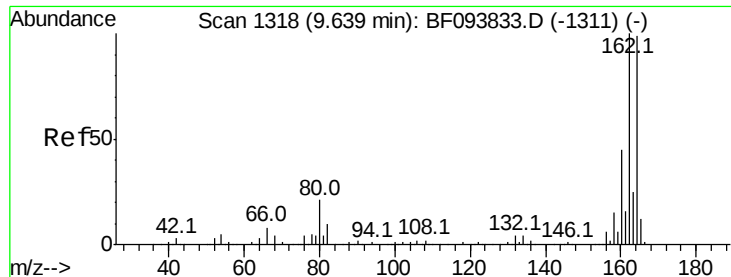


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

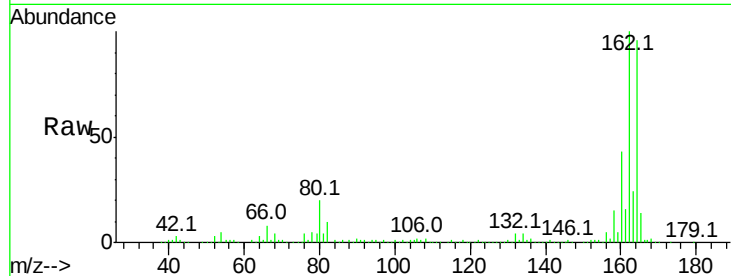




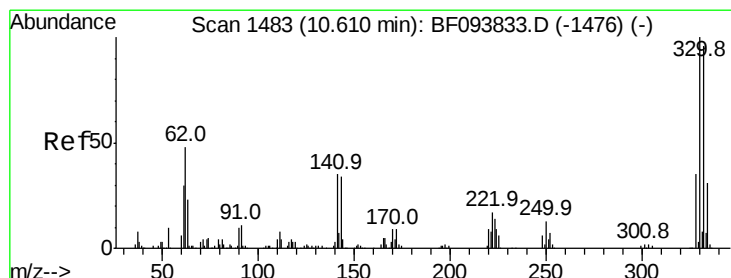
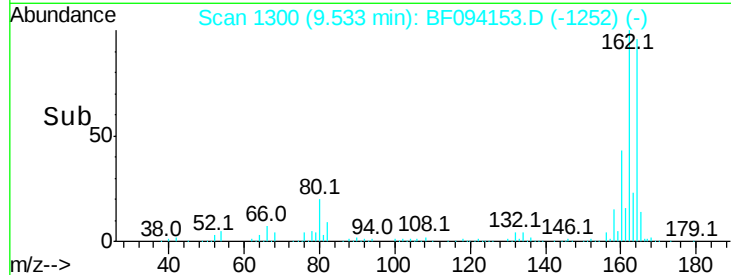
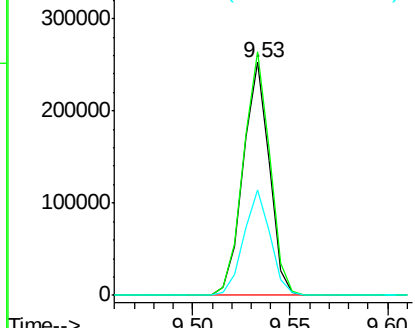
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094153.D
 Acq: 4 Apr 2017 7:33

Instrument :
 BNA_F
 ClientSampleId :
 E2-N11-BASE

Tot Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.6	123.8
160	45.1	36.2	54.2

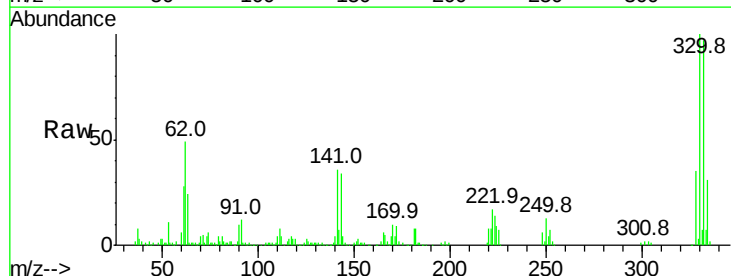


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

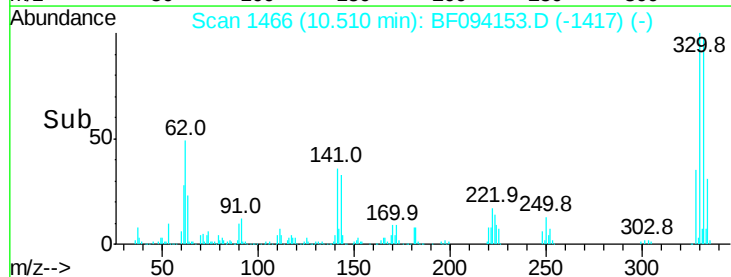
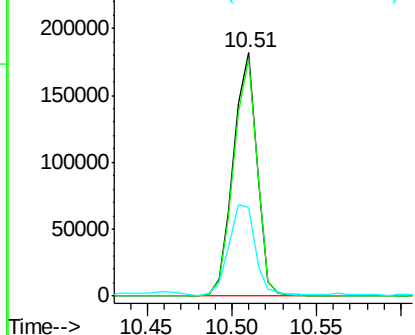


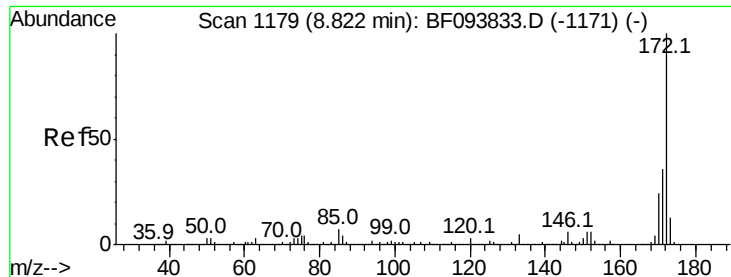
#41
 2,4,6-Tribromophenol
 Concen: 95.42 ng
 RT: 10.51 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF094153.D
 Acq: 4 Apr 2017 7:33

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	115.0
141	41.1	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



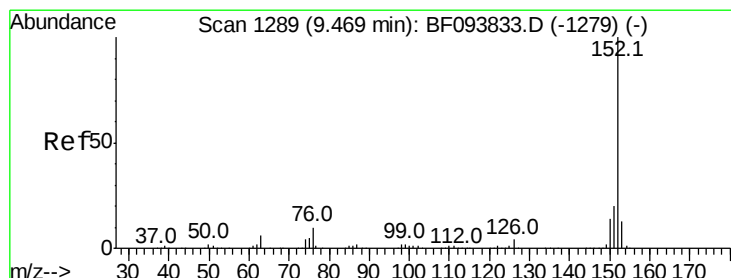
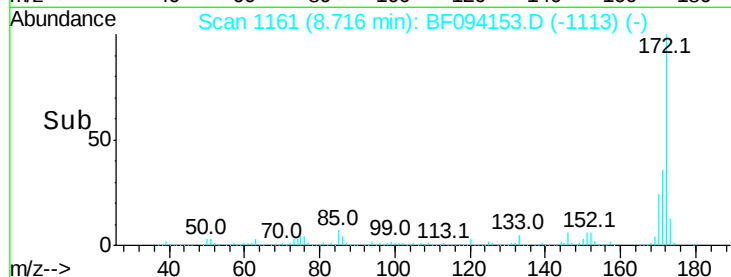
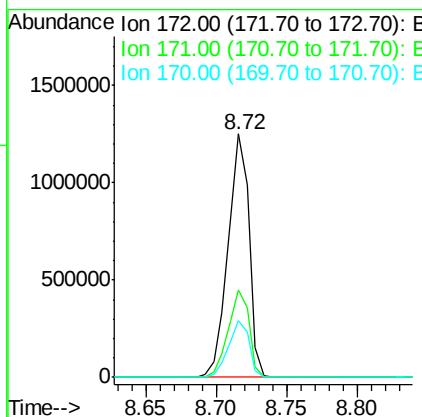
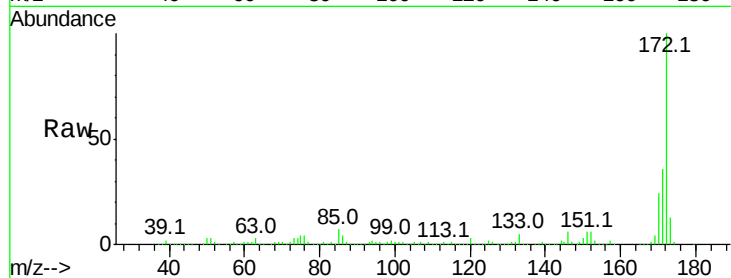


#44
 2-Fluorobiphenyl
 Concen: 83.95 ng
 RT: 8.72 min Scan# 1161
 Delta R.T. -0.02 min
 Lab File: BF094153.D
 Acq: 4 Apr 2017 7:33

Instrument :
 BNA_F
 ClientSampleId :
 E2-N11-BASE

Tot Ion:172 Resp: 1293520

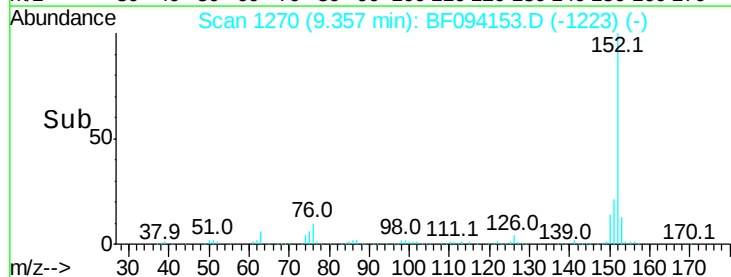
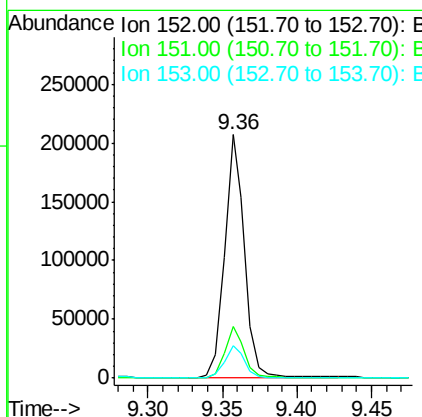
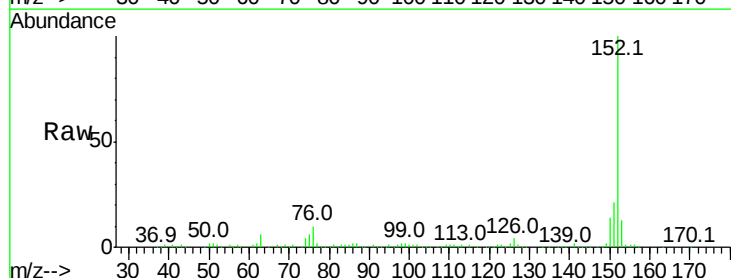
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.6	44.4
170	23.5	19.8	29.8

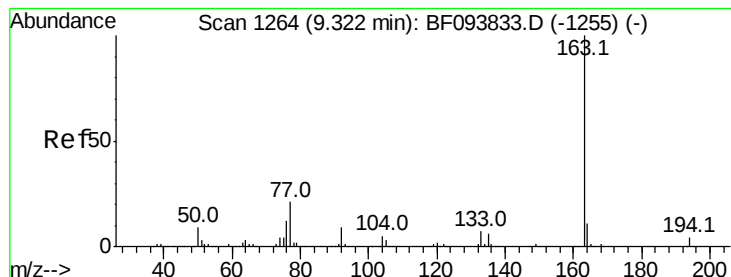


#48
 Acenaphthylene
 Concen: 7.92 ng
 RT: 9.36 min Scan# 1270
 Delta R.T. -0.02 min
 Lab File: BF094153.D
 Acq: 4 Apr 2017 7:33

Tgt Ion:152 Resp: 195360

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.8	25.2
153	13.2	10.8	16.2





#49

Dimethylphthalate

Concen: 7.80 ng

RT: 9.21 min Scan# 1245

Delta R.T. -0.04 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Instrument :

BNA_F

ClientSampleId :

E2-N11-BASE

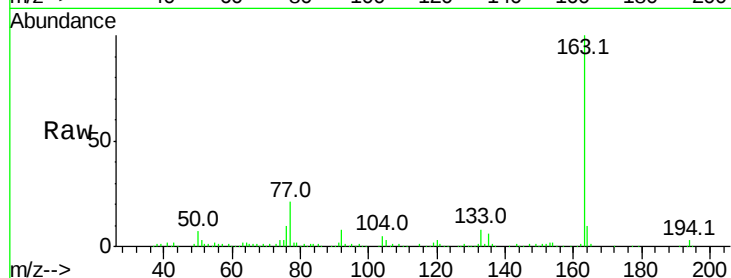
Tot Ion:163 Resp: 130355

Ion Ratio Lower Upper

163 100

194 3.2 2.6 4.0

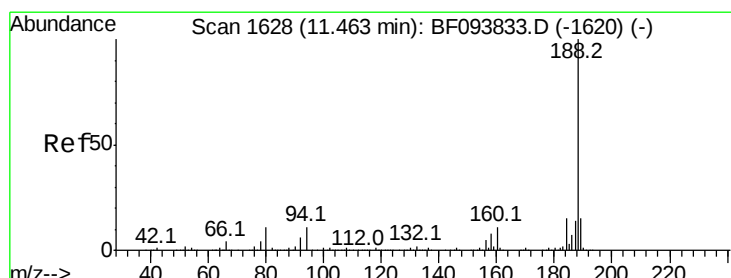
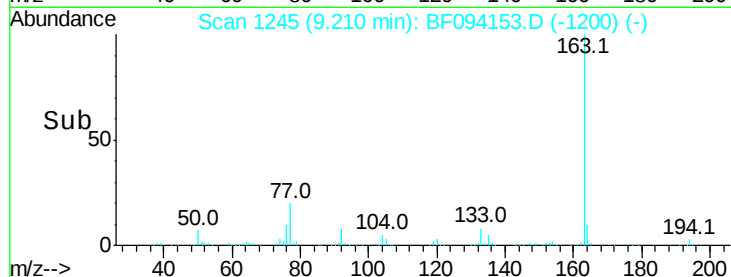
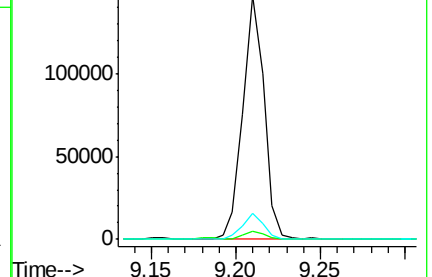
164 10.5 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 1610

Delta R.T. -0.02 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

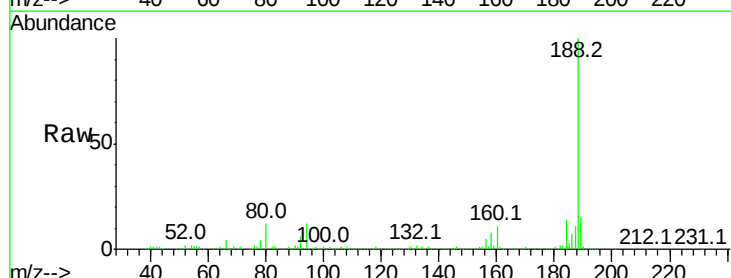
Tgt Ion:188 Resp: 351481

Ion Ratio Lower Upper

188 100

94 11.6 9.4 14.2

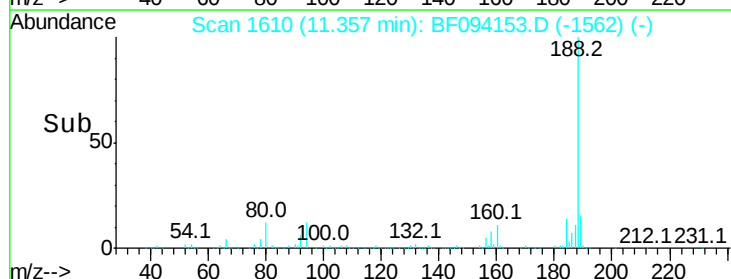
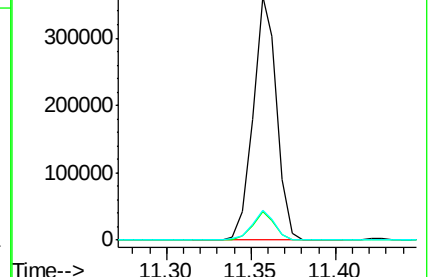
80 12.2 10.2 15.2

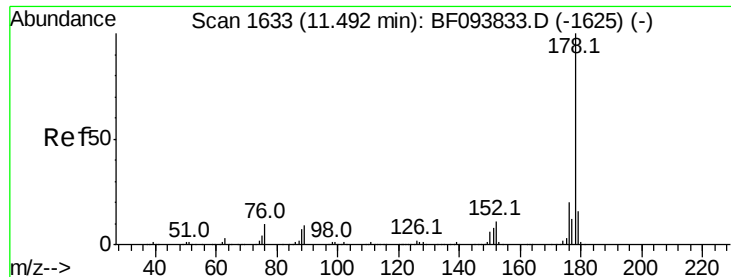


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 11.39 ng

RT: 11.39 min Scan# 1615

Delta R.T. -0.02 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Instrument :

BNA_F

ClientSampleId :

E2-N11-BASE

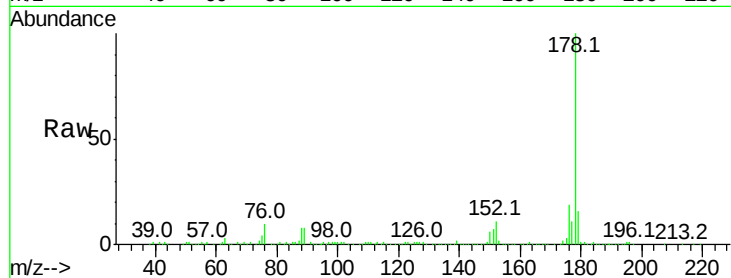
Tot Ion:178 Resp: 222664

Ion Ratio Lower Upper

178 100

176 18.5 16.2 24.4

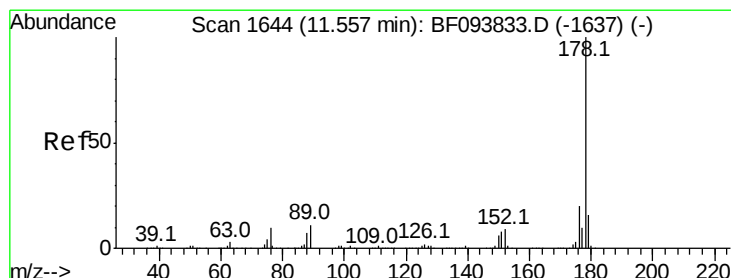
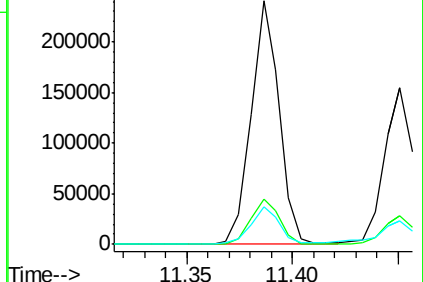
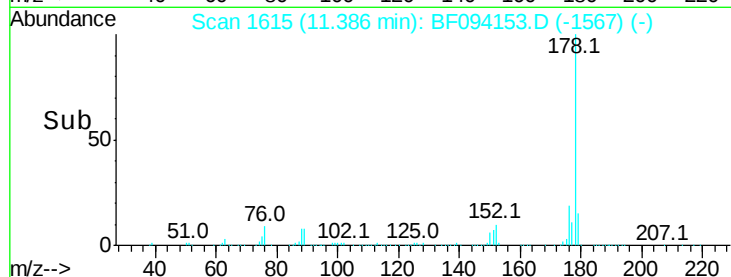
179 15.6 12.6 19.0



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: 7.29 ng

RT: 11.45 min Scan# 1626

Delta R.T. -0.02 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

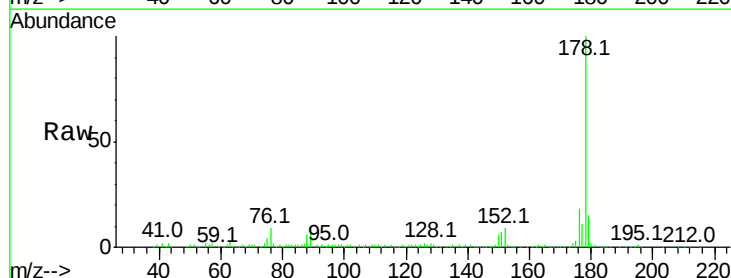
Tgt Ion:178 Resp: 146721

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.8

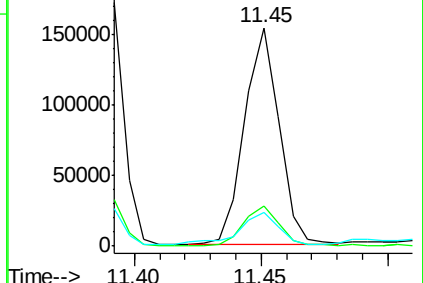
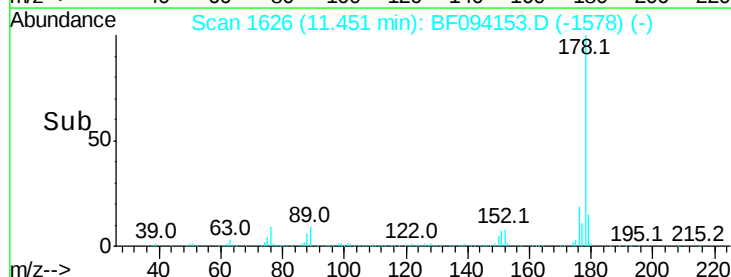
179 15.3 12.7 19.1

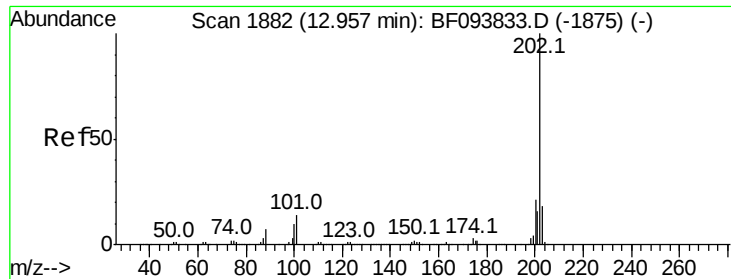


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 29.99 ng

RT: 12.86 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Instrument :

BNA_F

ClientSampleId :

E2-N11-BASE

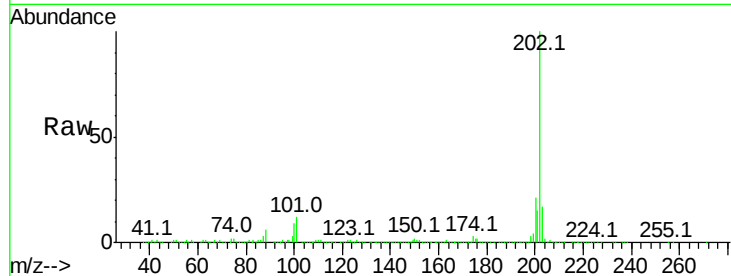
Tot Ion:202 Resp: 600477

Ion Ratio Lower Upper

202 100

101 12.5 0.0 33.2

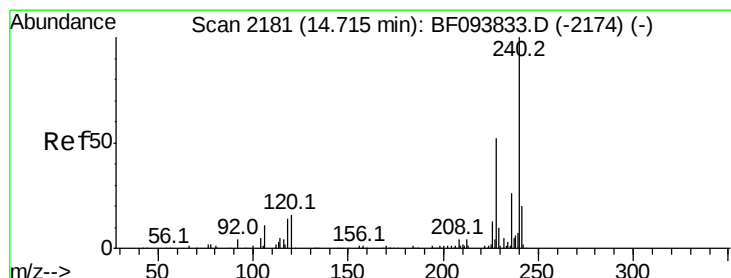
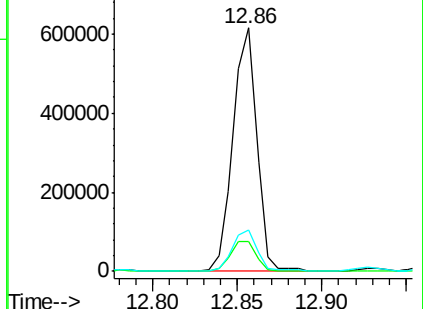
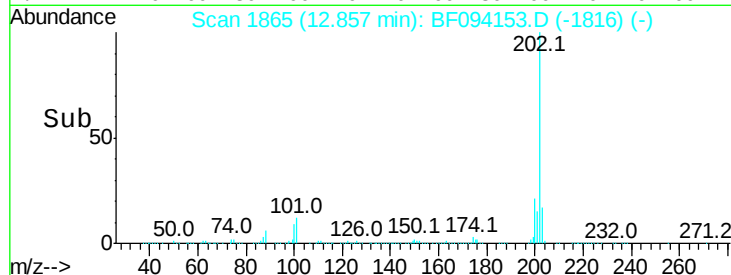
203 17.2 0.0 38.1



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: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

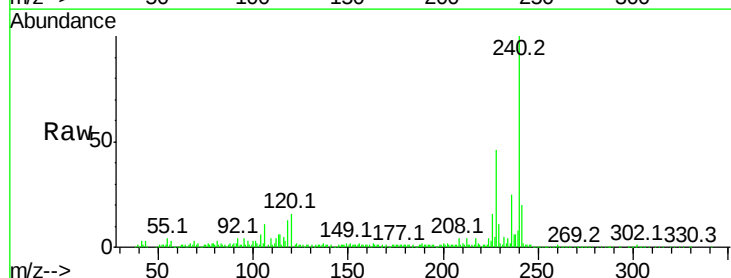
Tgt Ion:240 Resp: 299389

Ion Ratio Lower Upper

240 100

120 16.4 5.8 8.8#

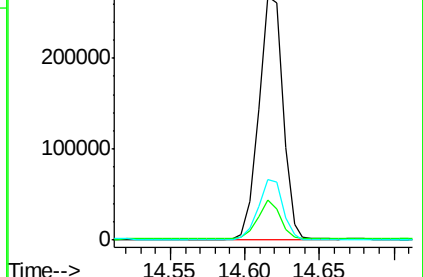
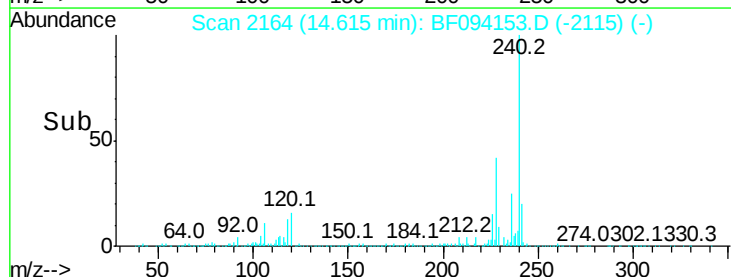
236 25.1 20.5 30.7

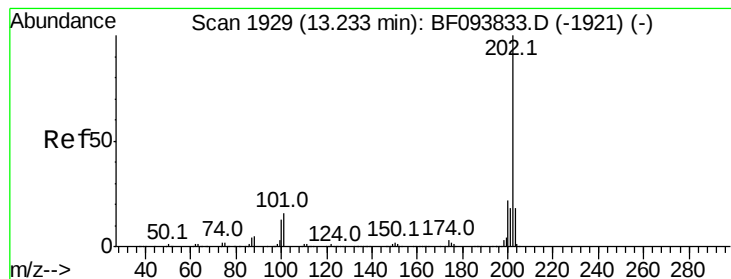


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 30.49 ng

RT: 13.13 min Scan# 1912

Delta R.T. -0.01 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Instrument :

BNA_F

ClientSampleId :

E2-N11-BASE

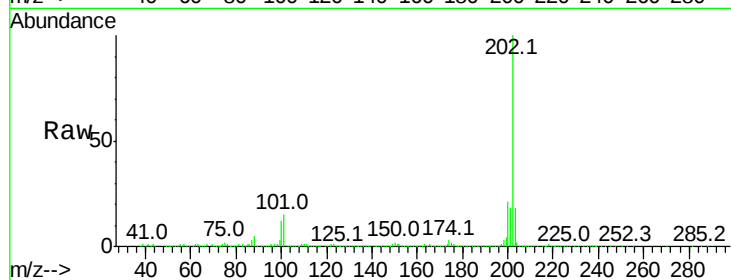
Tot Ion:202 Resp: 662376

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

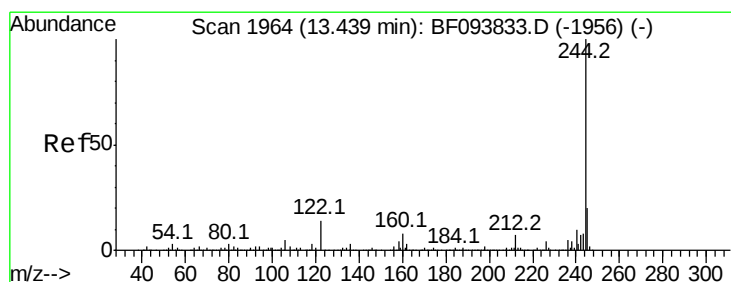
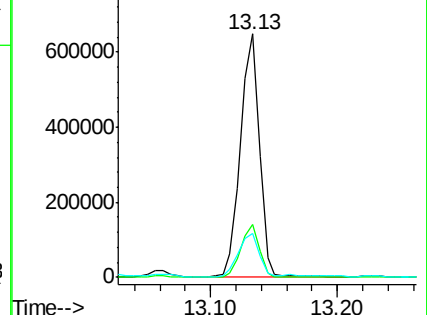
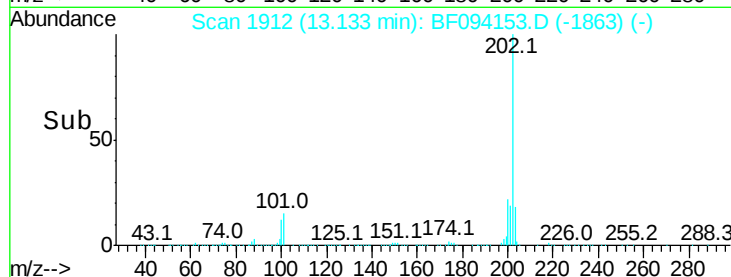
203 17.8 14.4 21.6



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: 65.80 ng

RT: 13.34 min Scan# 1947

Delta R.T. -0.01 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

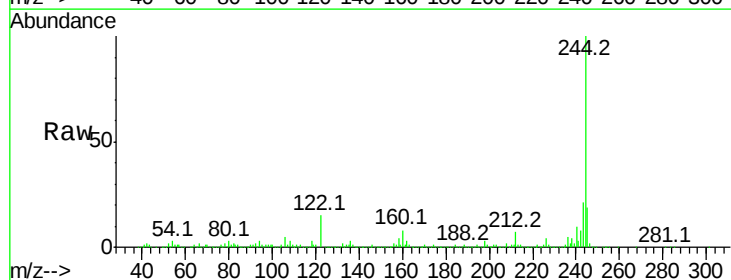
Tgt Ion:244 Resp: 878892

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

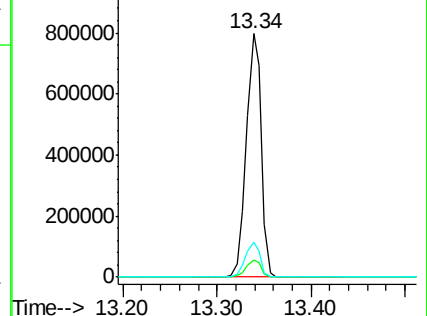
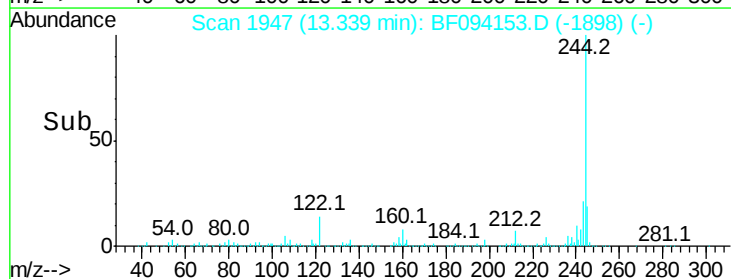
122 14.5 10.3 15.5

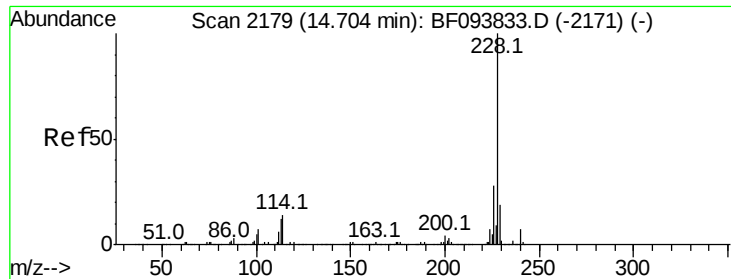


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

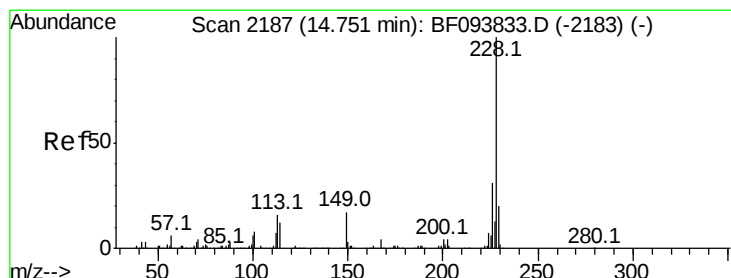
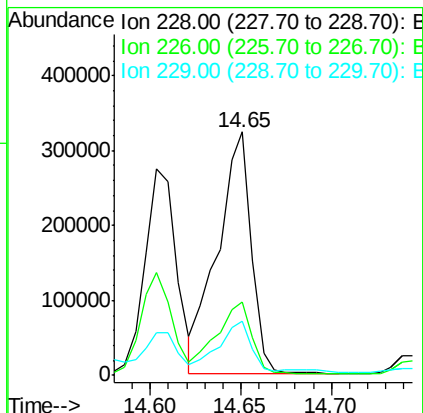
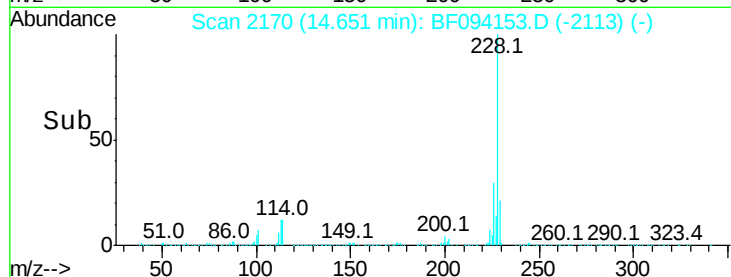
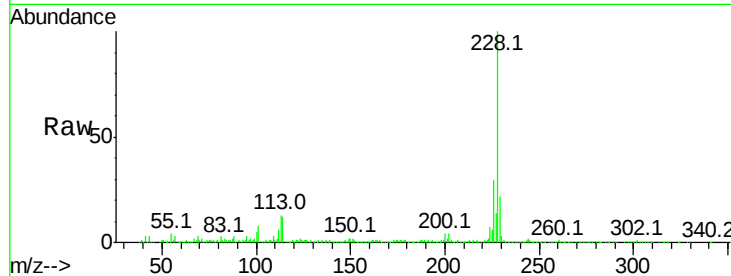




#80
Benzo(a)anthracene
Concen: 24.11 ng
RT: 14.65 min Scan# 2170
Delta R.T. 0.04 min
Lab File: BF094153.D
Acq: 4 Apr 2017 7:33

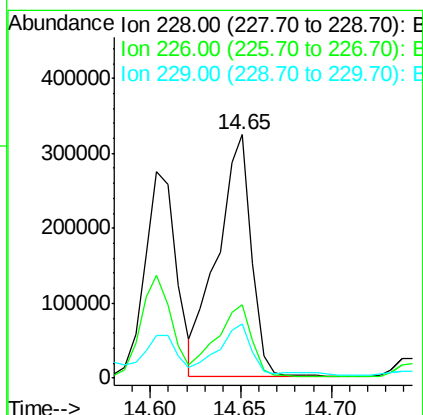
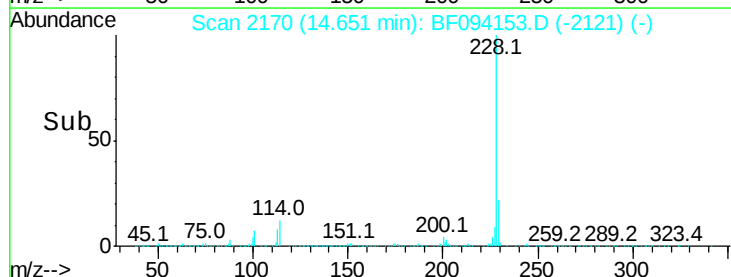
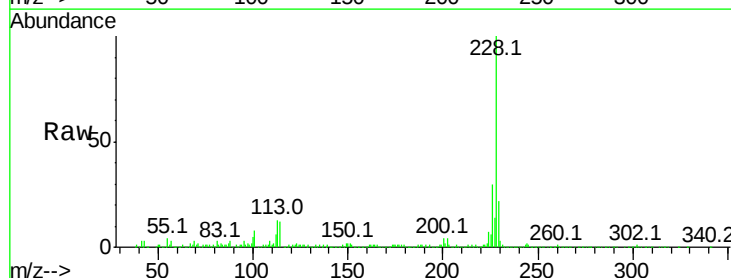
Instrument :
BNA_F
ClientSampleId :
E2-N11-BASE

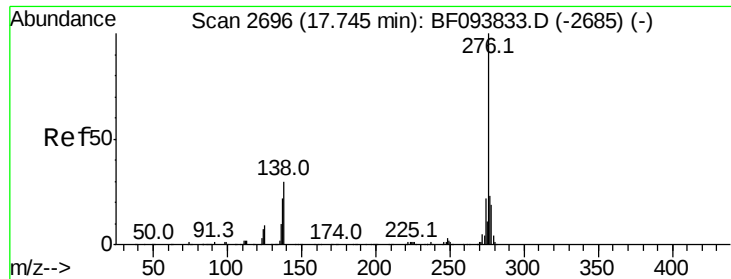
Tot Ion:228 Resp: 420993
Ion Ratio Lower Upper
228 100
226 30.0 22.6 33.8
229 22.0 16.3 24.5



#82
Chrysene
Concen: 25.99 ng
RT: 14.65 min Scan# 2170
Delta R.T. -0.01 min
Lab File: BF094153.D
Acq: 4 Apr 2017 7:33

Tgt Ion:228 Resp: 420993
Ion Ratio Lower Upper
228 100
226 30.0 24.9 37.3
229 22.0 15.8 23.6

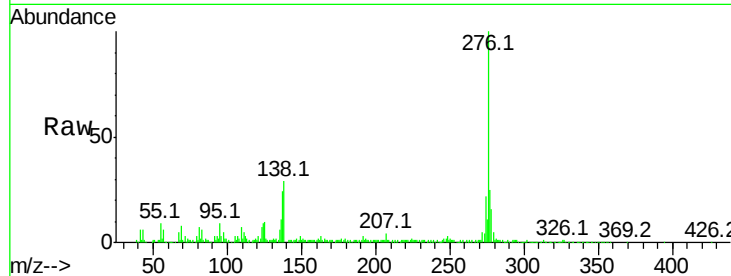




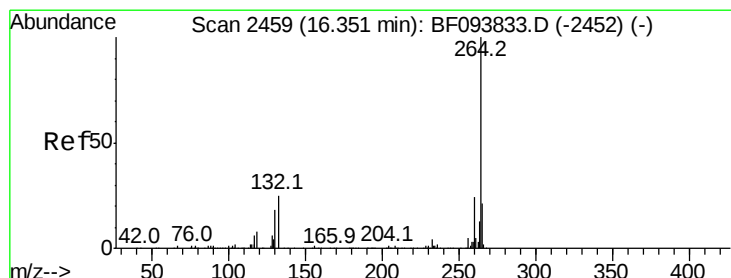
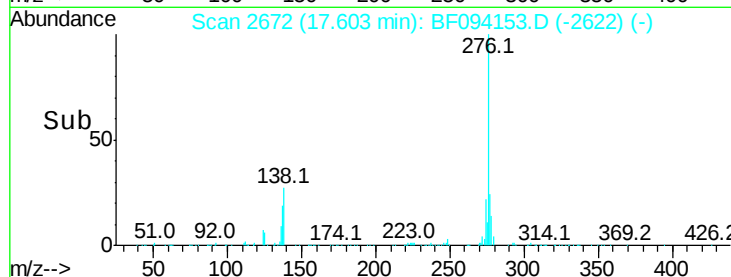
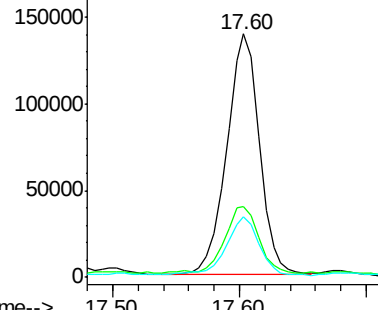
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 17.84 ng
 RT: 17.60 min Scan# 2672
 Delta R.T. -0.01 min
 Lab File: BF094153.D
 Acq: 4 Apr 2017 7:33

Instrument :
 BNA_F
 ClientSampleId :
 E2-N11-BASE

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.2	27.8	41.6
277	24.4	20.2	30.4

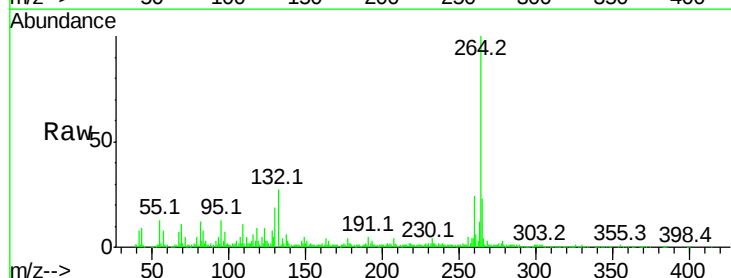


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

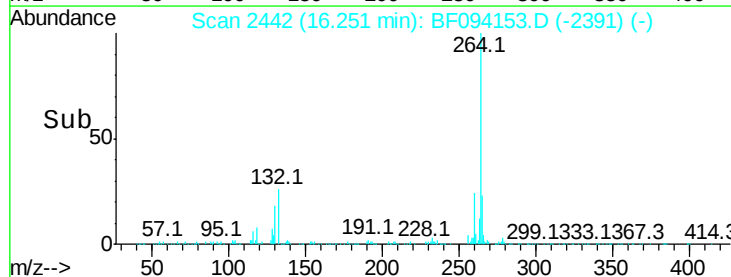
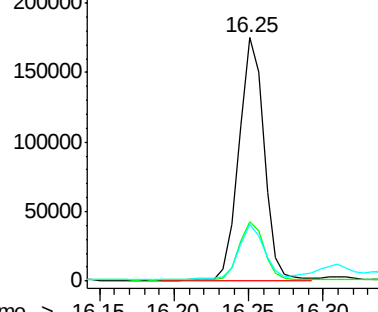


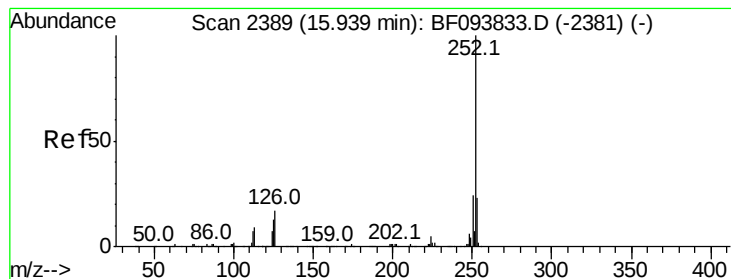
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.25 min Scan# 2442
 Delta R.T. -0.00 min
 Lab File: BF094153.D
 Acq: 4 Apr 2017 7:33

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.5	29.3
265	23.2	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: 59.25 ng

RT: 15.84 min Scan# 2373

Delta R.T. -0.01 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

Instrument :

BNA_F

ClientSampleId :

E2-N11-BASE

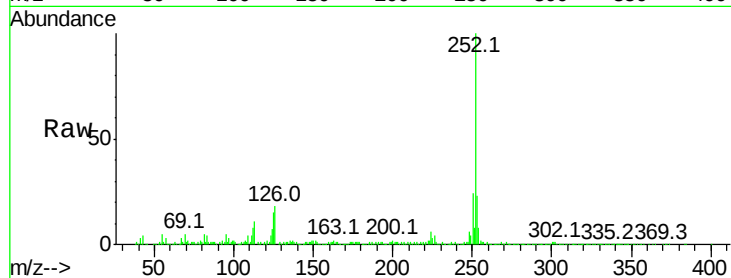
Tot Ion:252 Resp: 741011

Ion Ratio Lower Upper

252 100

253 22.6 18.1 27.1

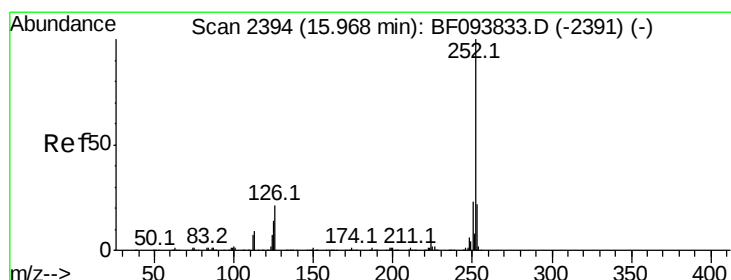
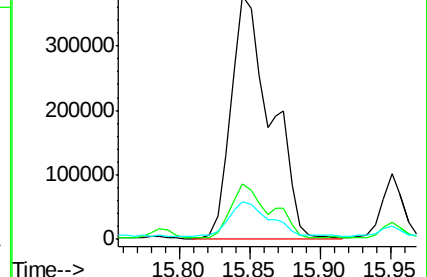
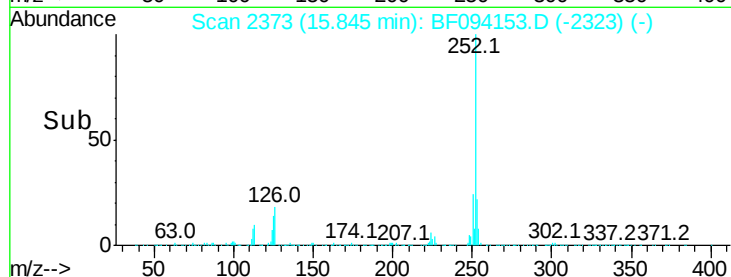
125 15.4 9.8 14.8#



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: 60.55 ng

RT: 15.84 min Scan# 2373

Delta R.T. -0.04 min

Lab File: BF094153.D

Acq: 4 Apr 2017 7:33

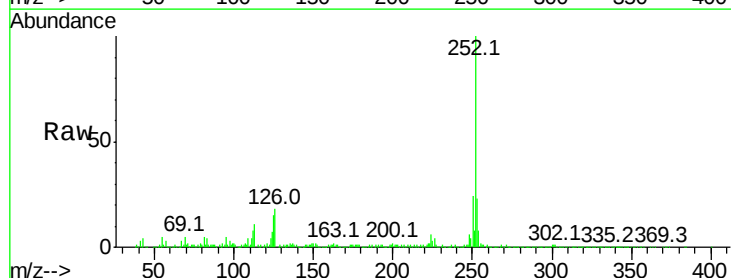
Tgt Ion:252 Resp: 741011

Ion Ratio Lower Upper

252 100

253 22.6 18.4 27.6

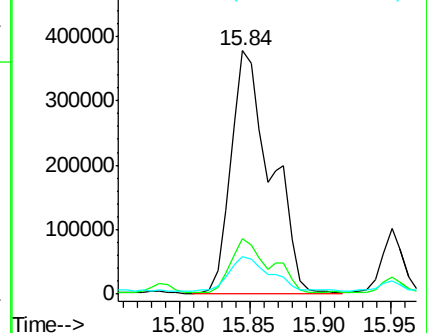
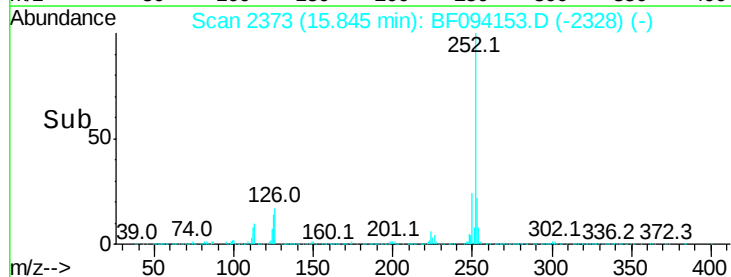
125 15.4 13.1 19.7

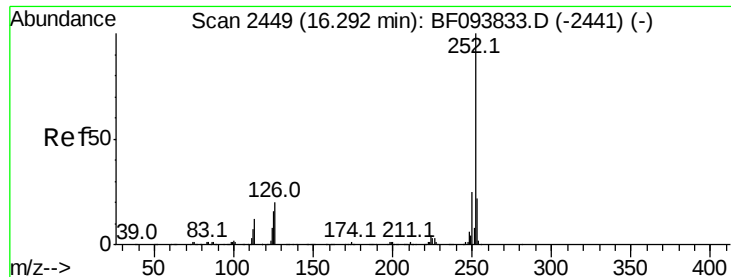


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

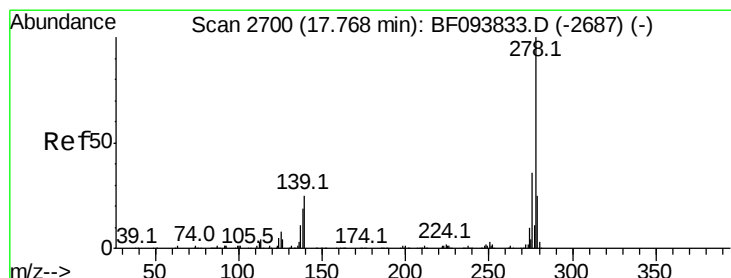
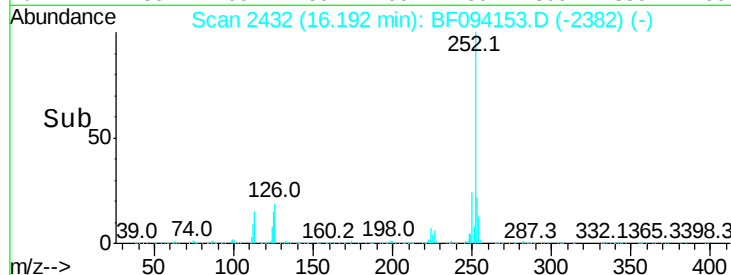
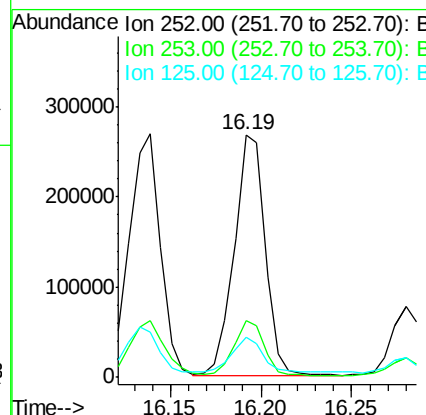
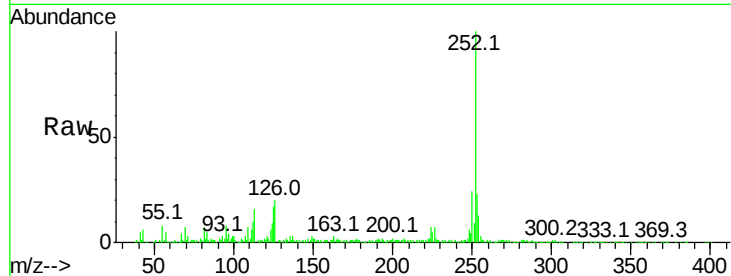




#89
Benzo(a)pyrene
Concen: 27.55 ng
RT: 16.19 min Scan# 2432
Delta R.T. -0.01 min
Lab File: BF094153.D
Acq: 4 Apr 2017 7:33

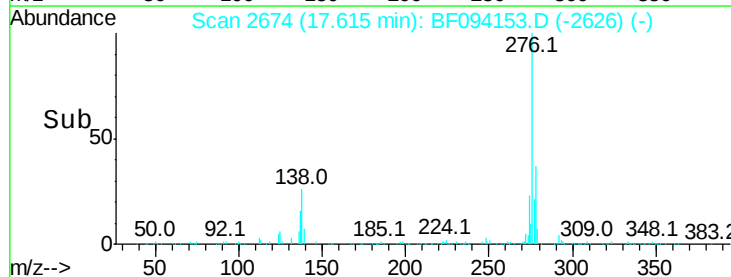
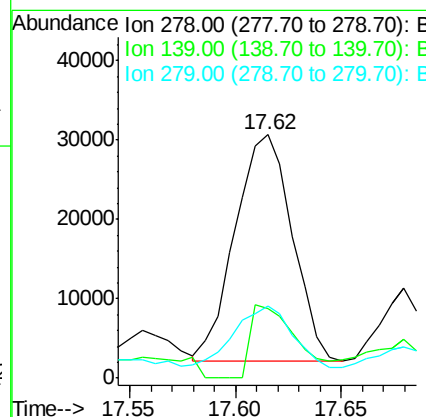
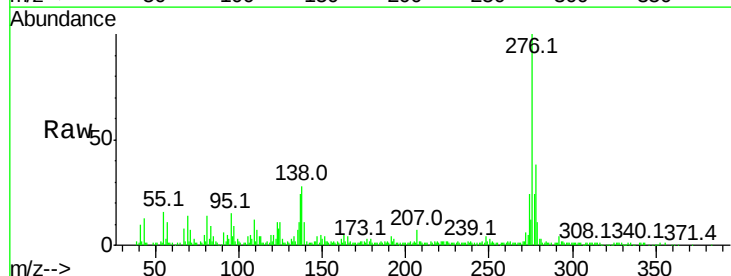
Instrument :
BNA_F
ClientSampleId :
E2-N11-BASE

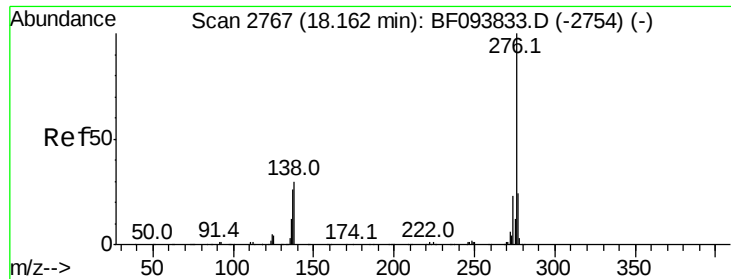
Tot Ion:252 Resp: 317310
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 16.7 11.0 16.4#



#90
Dibenzo(a,h)anthracene
Concen: 5.48 ng
RT: 17.62 min Scan# 2674
Delta R.T. -0.02 min
Lab File: BF094153.D
Acq: 4 Apr 2017 7:33

Tgt Ion:278 Resp: 53428
Ion Ratio Lower Upper
278 100
139 28.5 16.6 24.8#
279 29.6 19.3 28.9#

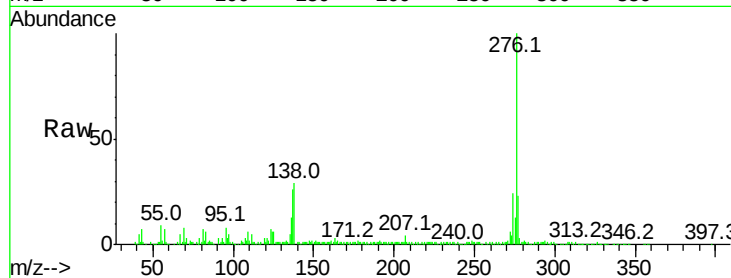




#91
 Benzo(a,h,i)perylene
 Concen: 26.18 ng
 RT: 18.00 min Scan# 2740
 Delta R.T. -0.01 min
 Lab File: BF094153.D
 Acq: 4 Apr 2017 7:33

Instrument :
 BNA_F
 ClientSampleId :
 E2-N11-BASE

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.8	18.6	28.0
138	29.2	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

