

Data Path : Z:\HPCHEM1\BNA F\Data\BF032117\
 Data File : BF093828.D
 Acq On : 22 Mar 2017 10:30
 Operator : SJ/MA
 Sample : I2318-09DL 50X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 22 14:56:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 21 14:38:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	200883	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	805464	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	371882	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	568717	20.00	ng	0.00
75) Chrysene-d12	13.97	240	377286	20.00	ng	0.00
86) Perylene-d12	15.37	264	345650	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	27762	2.42	ng	-0.01
7) Phenol-d6	6.45	99	35966	2.53	ng	-0.01
23) Nitrobenzene-d5	7.38	82	19511	1.37	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	5051	1.75	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	43768	1.98	ng	0.00
78) Terphenyl-d14	12.92	244	28519	1.54	ng	-0.01

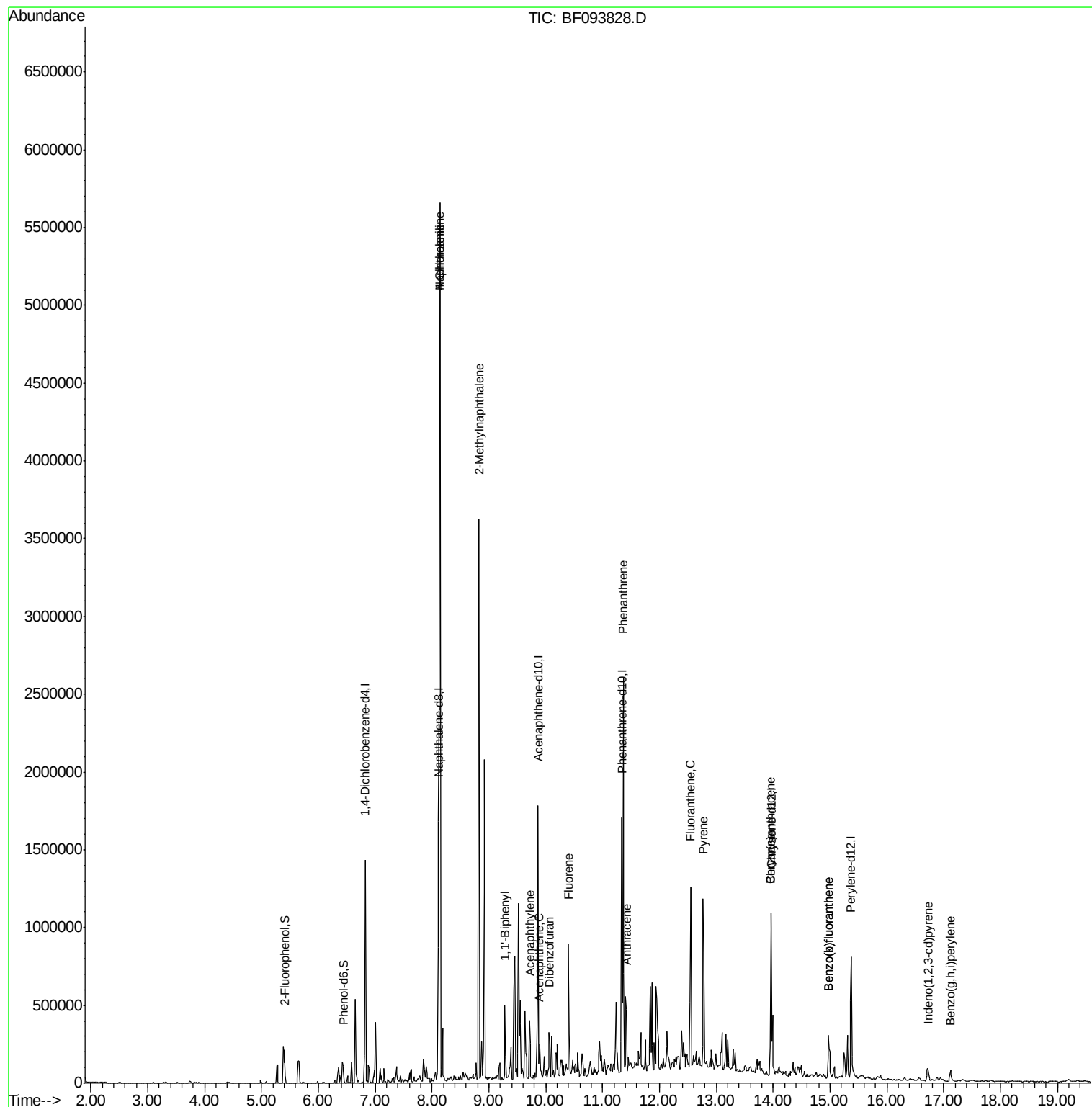
Target Compounds						Qvalue
31) Naphthalene	8.14	128	2748800	73.52	ng	99
33) 4-Chloroaniline	8.14	127	383309	23.86	ng	# 34
37) 2-Methylnaphthalene	8.82	142	954651	39.12	ng	99
45) 1,1'-Biphenyl	9.28	154	142909	4.73	ng	95
48) Acenaphthylene	9.72	152	102090	2.71	ng	# 94
51) Acenaphthene	9.89	154	50311	2.23	ng	94
54) Dibenzofuran	10.06	168	72769	2.40	ng	# 87
57) Fluorene	10.40	166	248993	10.73	ng	99
70) Phenanthrene	11.36	178	946646	31.25	ng	99
71) Anthracene	11.42	178	258041	8.28	ng	96
74) Fluoranthene	12.55	202	477362	15.33	ng	96
77) Pylene	12.77	202	563588	17.95	ng	98
80) Benzo(a)anthracene	13.96	228	213290	9.03	ng	# 91
82) Chrysene	13.96	228	213290	9.03	ng	94
85) Indeno(1,2,3-cd)pyrene	16.72	276	56543	2.92	ng	93
87) Benzo(b)fluoranthene	14.97	252	197245	8.46	ng	97
88) Benzo(k)fluoranthene	14.97	252	197103	11.46	ng	96
91) Benzo(g,h,i)perylene	17.12	276	53632	3.44	ng	95

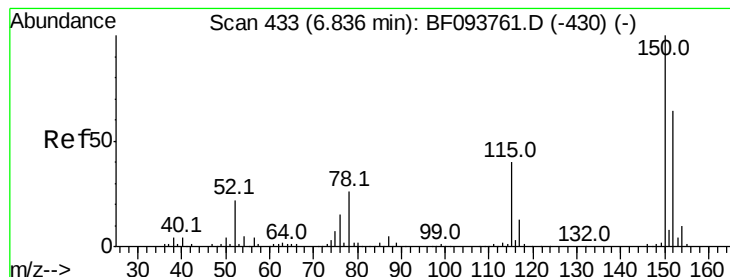
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 432

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

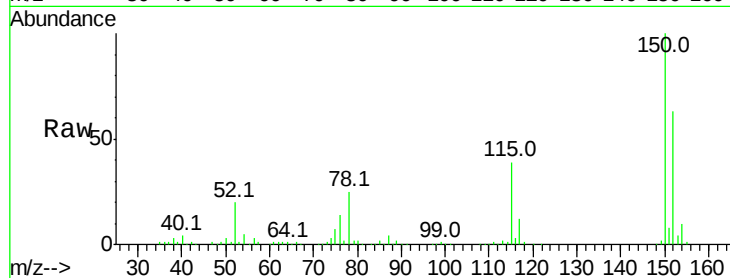
Tot Ion:152 Resp: 200883

Ion Ratio Lower Upper

152 100

150 157.5 126.2 189.2

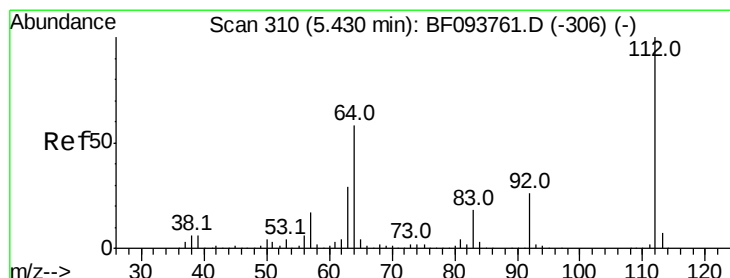
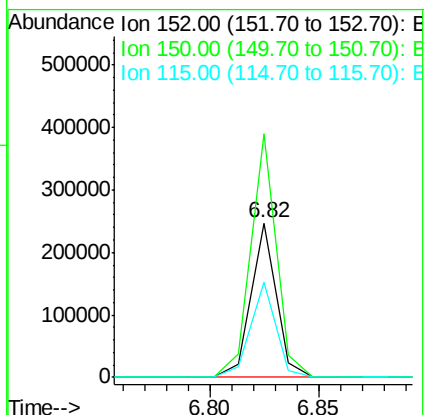
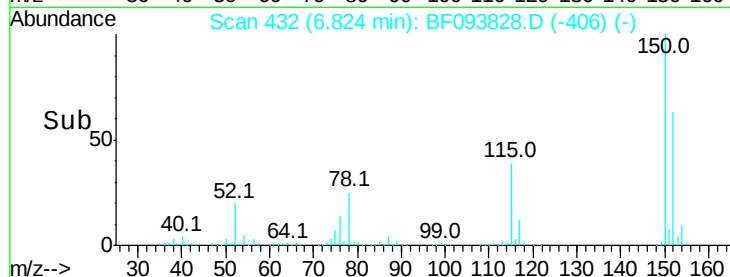
115 61.4 52.2 78.2



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: 2.42 ng

RT: 5.41 min Scan# 308

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

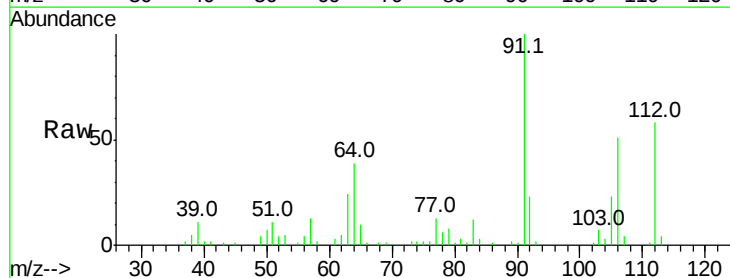
Tgt Ion:112 Resp: 27762

Ion Ratio Lower Upper

112 100

64 66.6 46.0 69.0

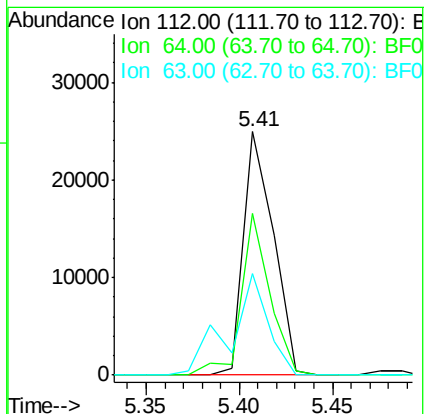
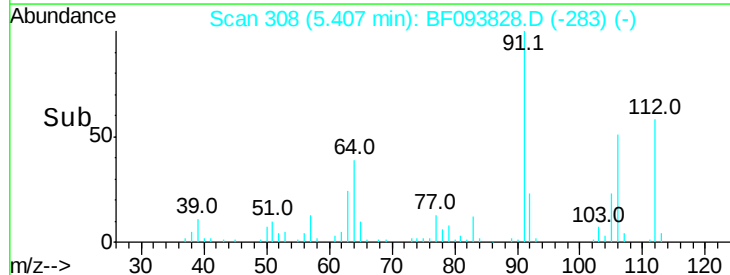
63 41.6 23.4 35.0#

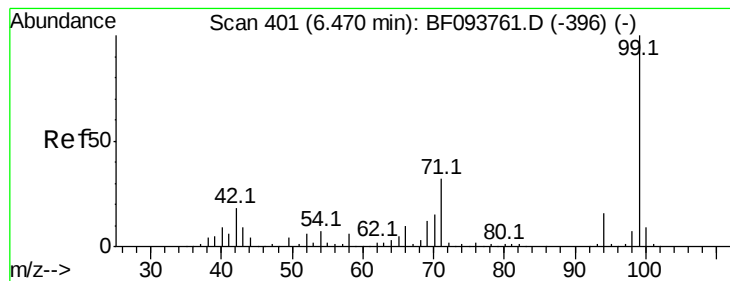


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 2.53 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

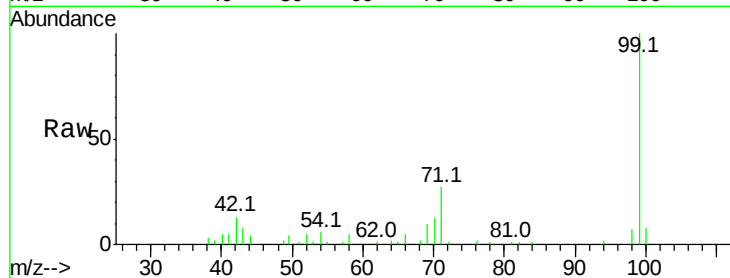
Tot Ion: 99 Resp: 35966

Ion Ratio Lower Upper

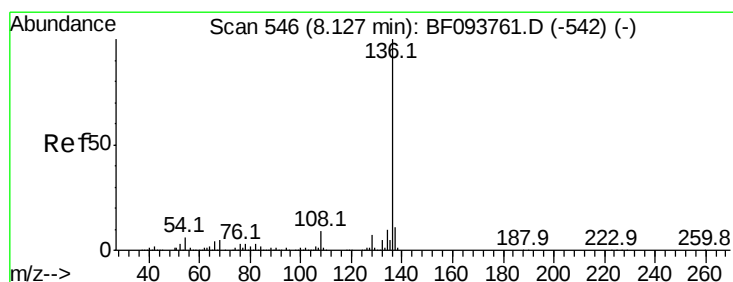
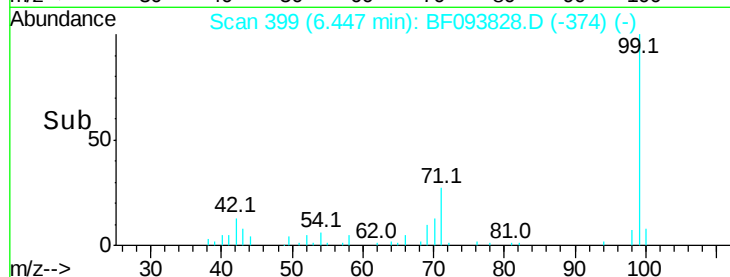
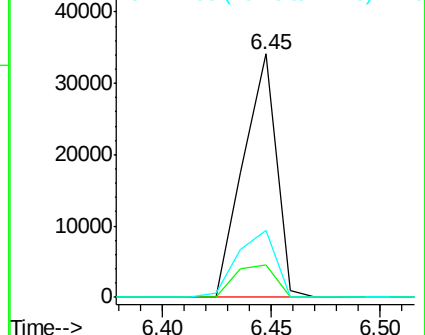
99 100

42 13.2 13.5 20.3#

71 27.3 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: 8.12 min Scan# 545

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Tgt Ion: 136 Resp: 805464

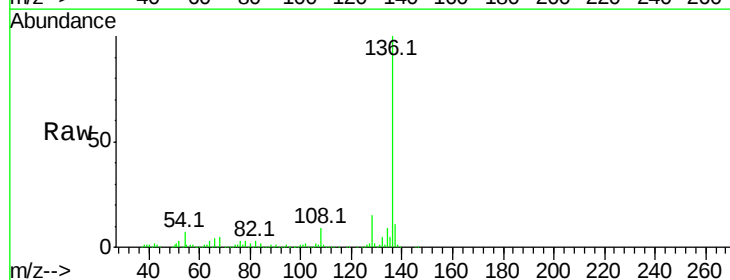
Ion Ratio Lower Upper

136 100

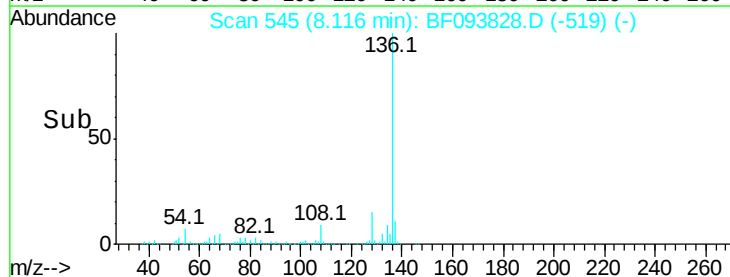
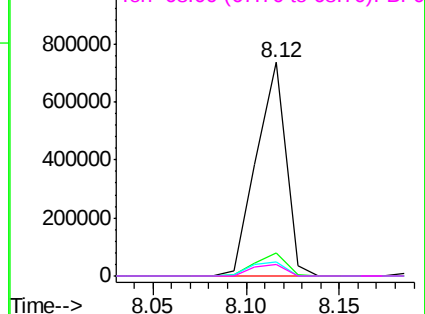
137 10.8 8.5 12.7

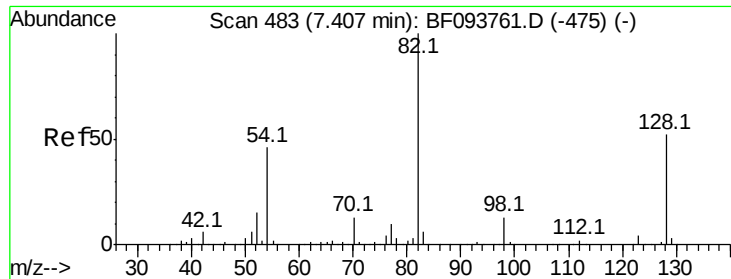
54 6.5 4.9 7.3

68 5.3 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

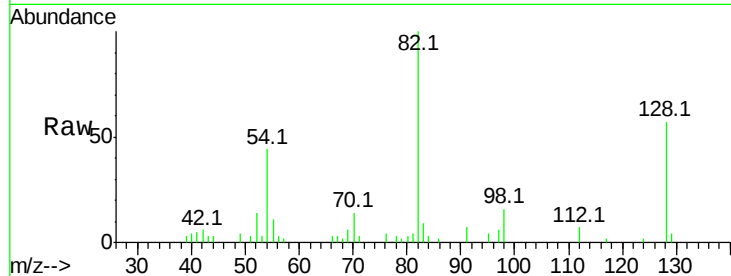




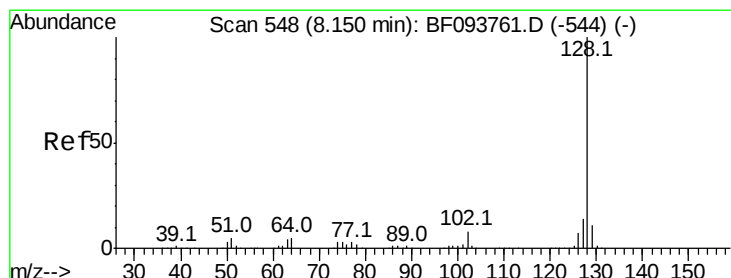
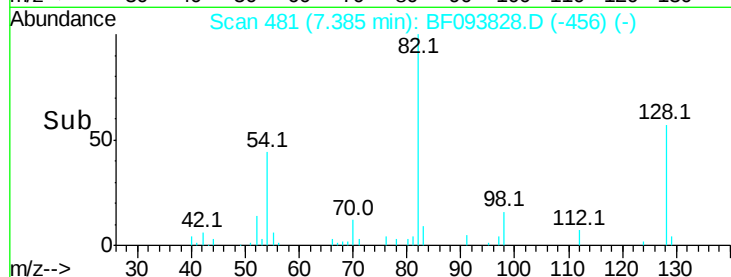
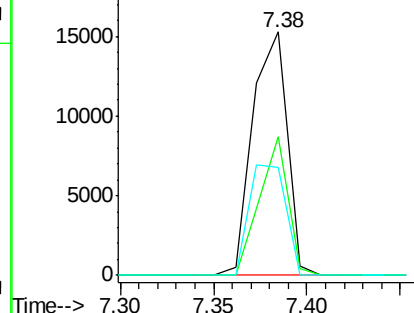
#23
Nitrobenzene-d5
Concen: 1.37 ng
RT: 7.38 min Scan# 481
Delta R.T. -0.01 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 19511
Ion Ratio Lower Upper
82 100
128 56.8 34.0 51.0#
54 44.5 42.2 63.2

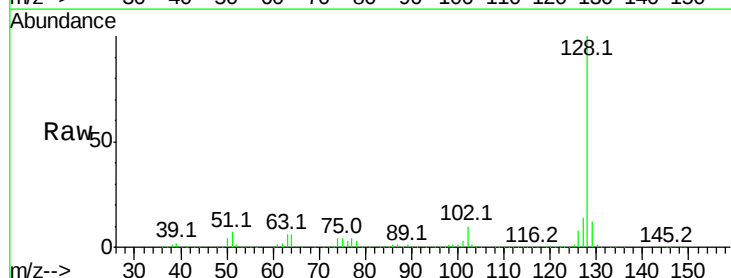


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

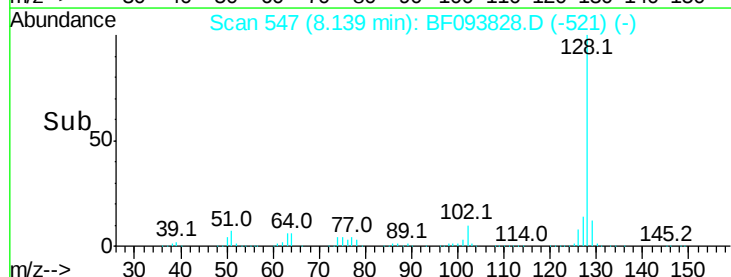
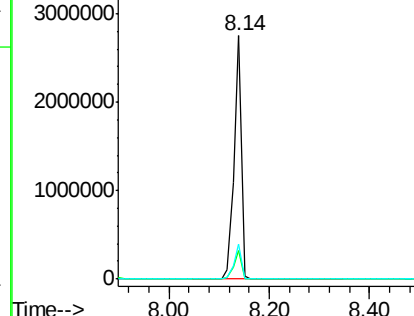


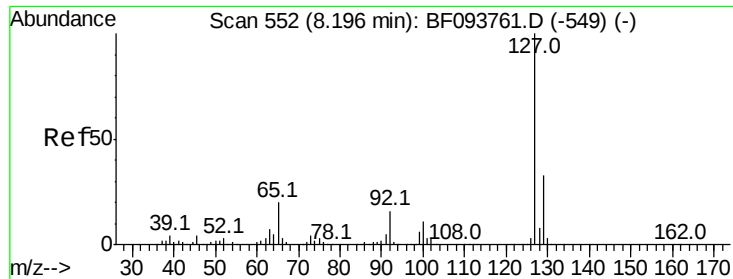
#31
Naphthalene
Concen: 73.52 ng
RT: 8.14 min Scan# 547
Delta R.T. -0.00 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion:128 Resp: 2748800
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.6
127 14.2 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

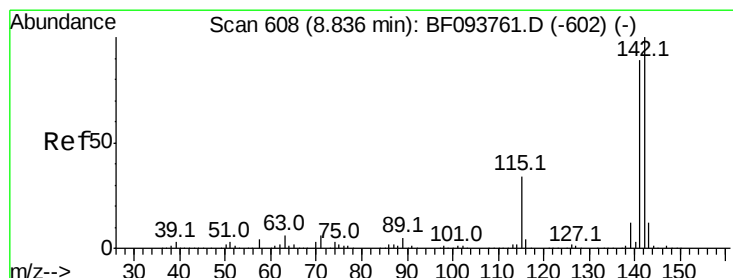
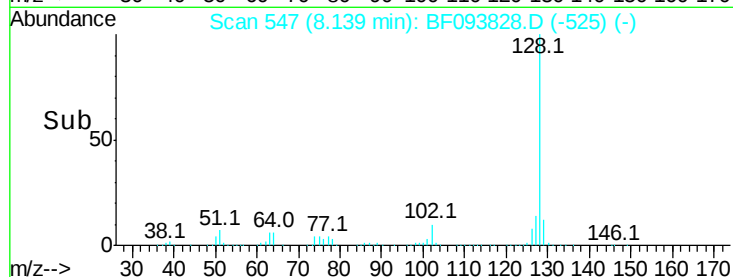
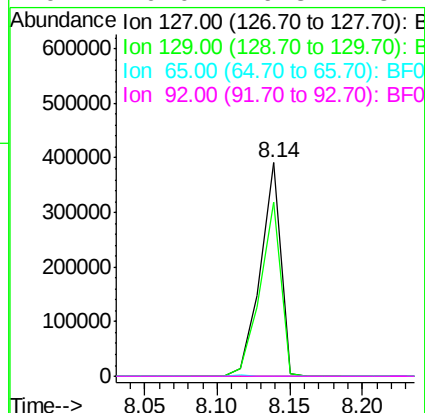
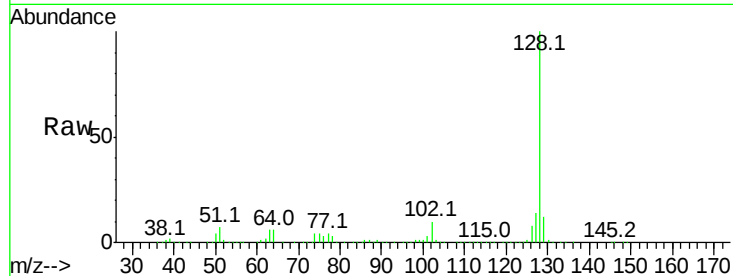




#33
4-Chloroaniline
Concen: 23.86 ng
RT: 8.14 min Scan# 547
Delta R.T. -0.05 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

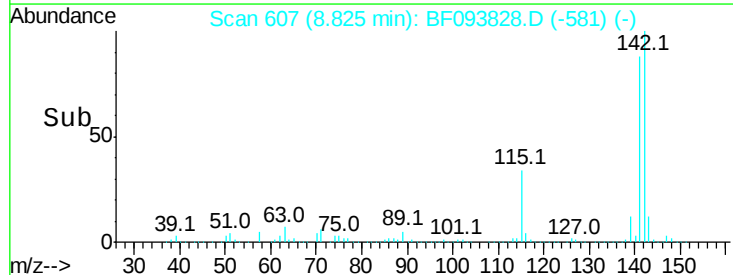
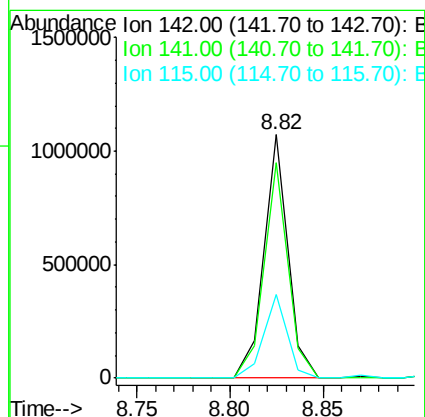
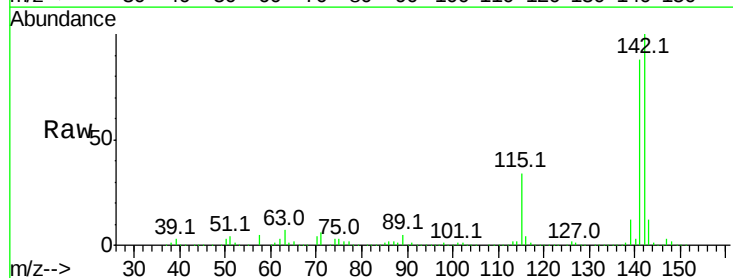
Instrument :
BNA_F
ClientSampleId :

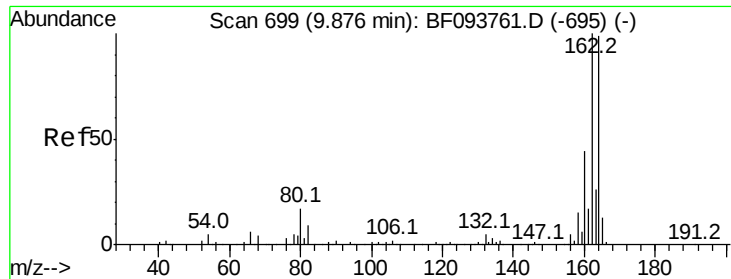
Tot Ion:	127	Resp:	383309
Ion	Ratio	Lower	Upper
127	100		
129	81.5	26.2	39.2#
65	0.0	27.8	41.8#
92	0.0	16.8	25.2#



#37
2-Methylnaphthalene
Concen: 39.12 ng
RT: 8.82 min Scan# 607
Delta R.T. -0.00 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion:	142	Resp:	954651
Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.3	106.9
115	34.3	27.1	40.7

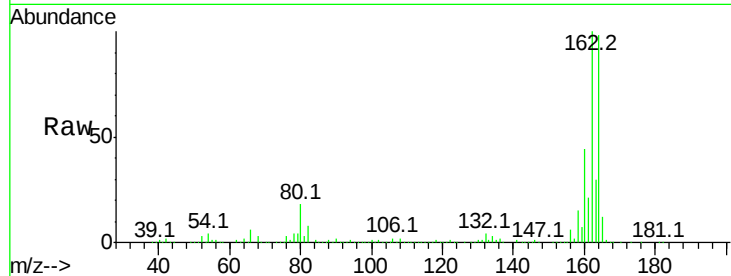




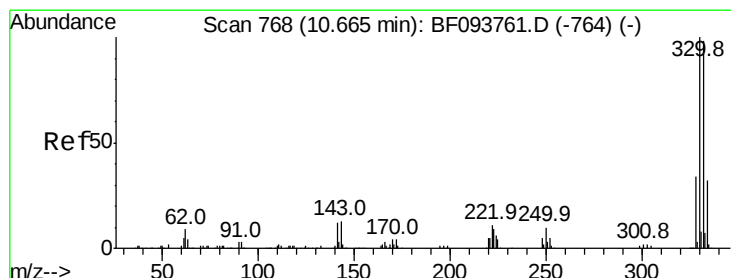
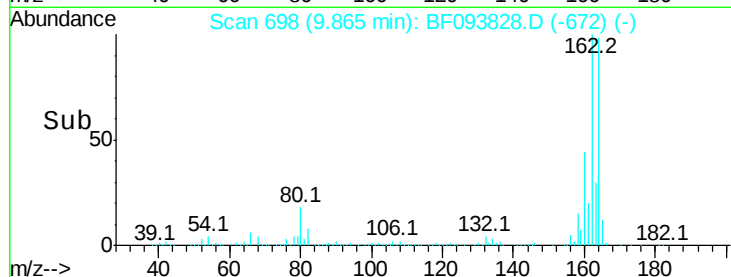
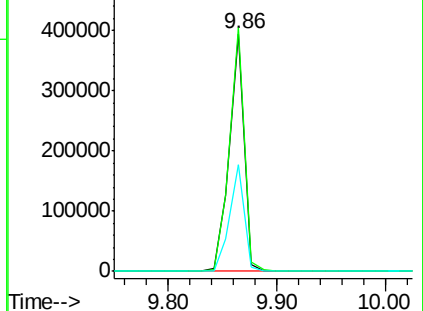
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.86 min Scan# 698
 Delta R.T. -0.00 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 371882
 Ion Ratio Lower Upper
 164 100
 162 102.5 82.6 123.8
 160 44.9 36.2 54.2

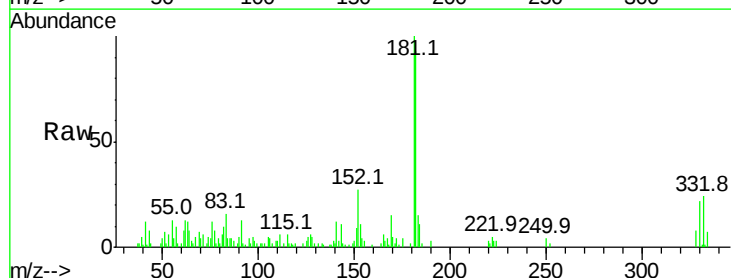


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

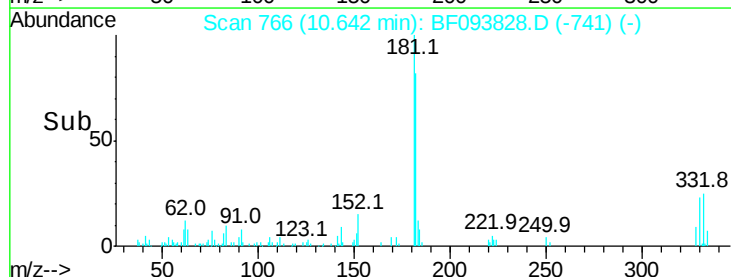
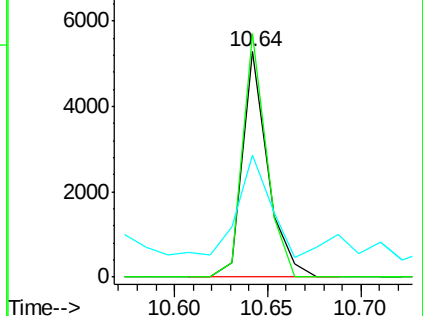


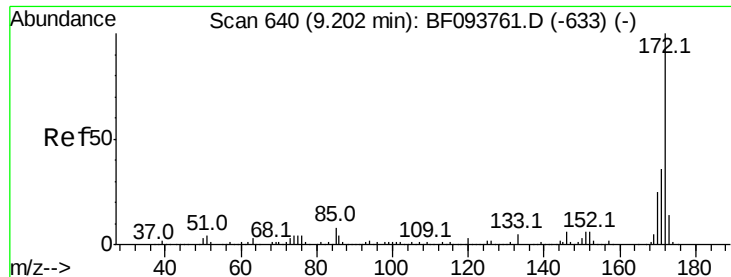
#41
 2,4,6-Tribromophenol
 Concen: 1.75 ng
 RT: 10.64 min Scan# 766
 Delta R.T. -0.01 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

Tgt Ion:330 Resp: 5051
 Ion Ratio Lower Upper
 330 100
 332 100.7 76.6 115.0
 141 55.6 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

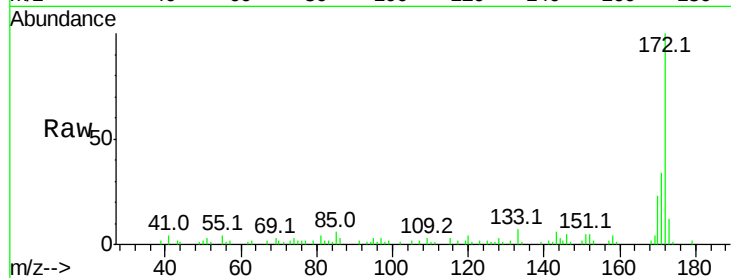




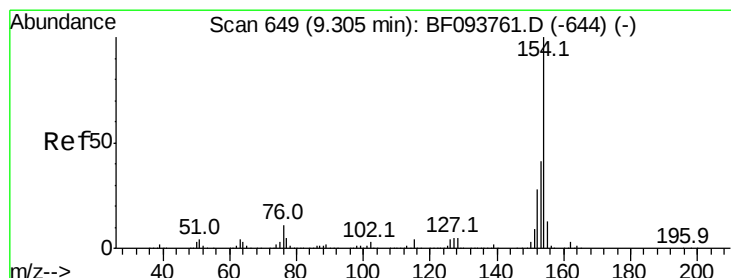
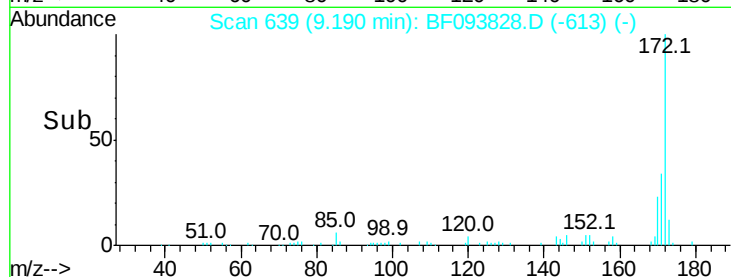
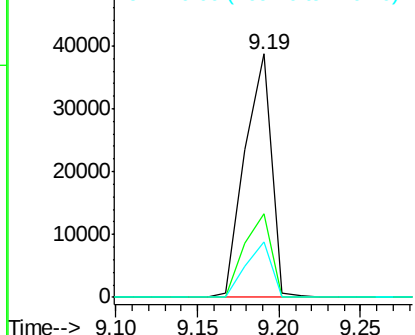
#44
2-Fluorobiphenyl
Concen: 1.98 ng
RT: 9.19 min Scan# 639
Delta R.T. -0.00 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Instrument :
BNA_F
ClientSampled :

Tot Ion:172 Resp: 43768
Ion Ratio Lower Upper
172 100
171 34.5 29.6 44.4
170 22.6 19.8 29.8

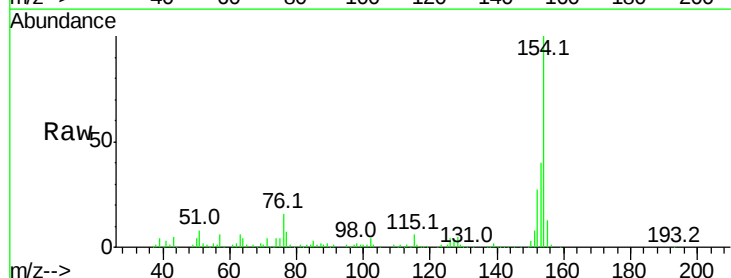


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

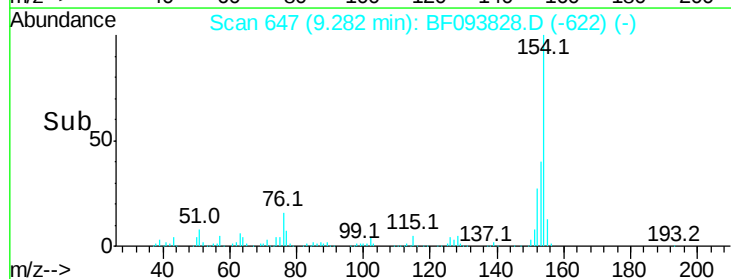
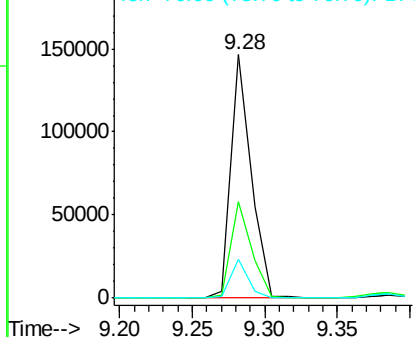


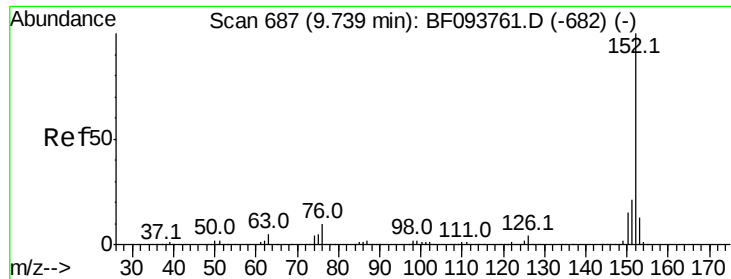
#45
1,1'-Biphenyl
Concen: 4.73 ng
RT: 9.28 min Scan# 647
Delta R.T. -0.01 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion:154 Resp: 142909
Ion Ratio Lower Upper
154 100
153 39.7 21.2 61.2
76 16.0 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

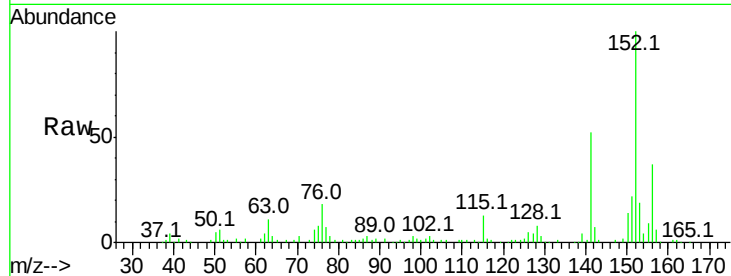




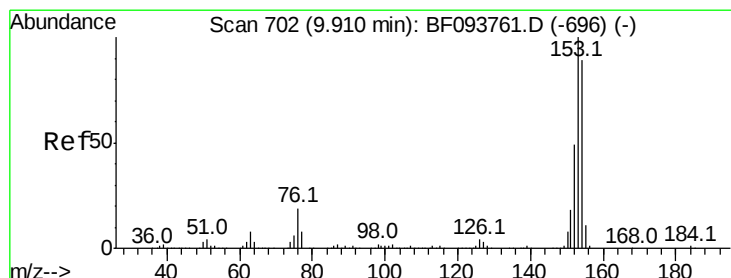
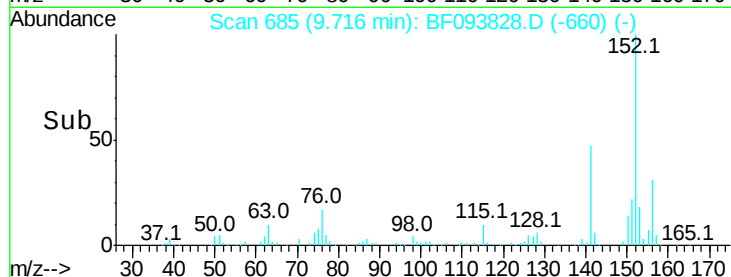
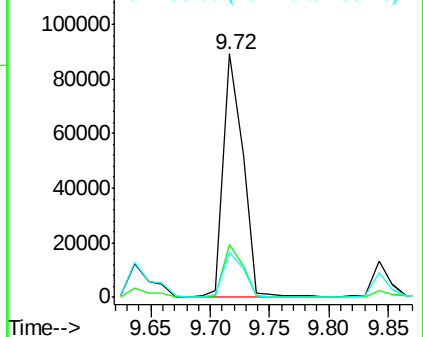
#48
Acenaphthylene
Concen: 2.71 ng
RT: 9.72 min Scan# 685
Delta R.T. -0.01 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.9	16.8	25.2
153	18.5	10.8	16.2

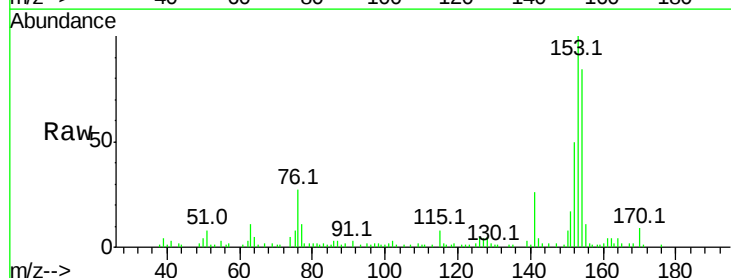


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

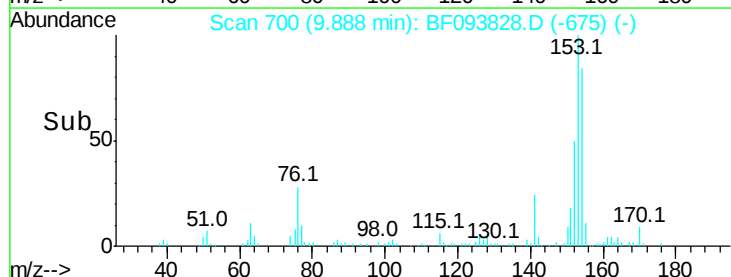
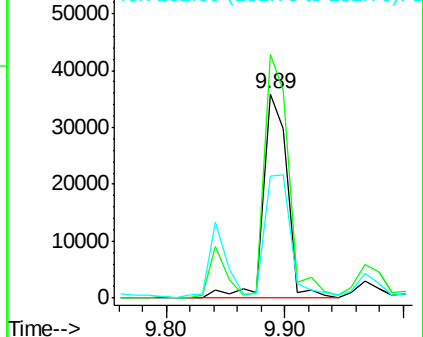


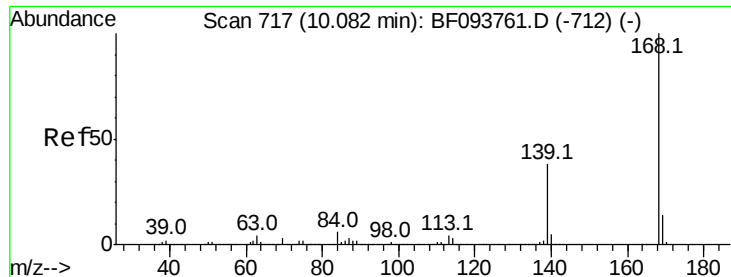
#51
Acenaphthene
Concen: 2.23 ng
RT: 9.89 min Scan# 700
Delta R.T. -0.01 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion	Ratio	Lower	Upper
154	100		
153	119.1	90.5	135.7
152	60.0	43.6	65.4



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

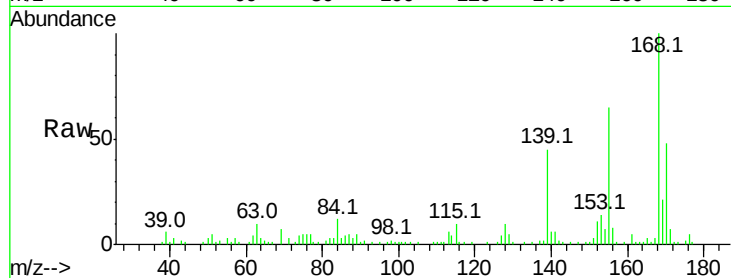




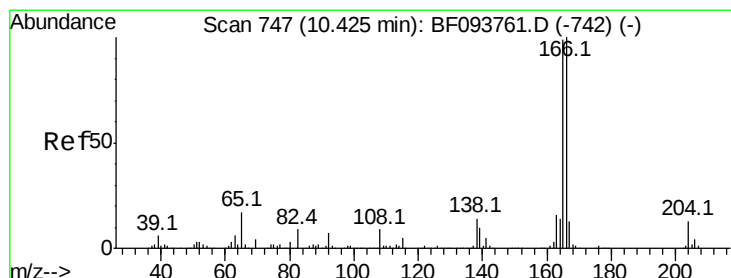
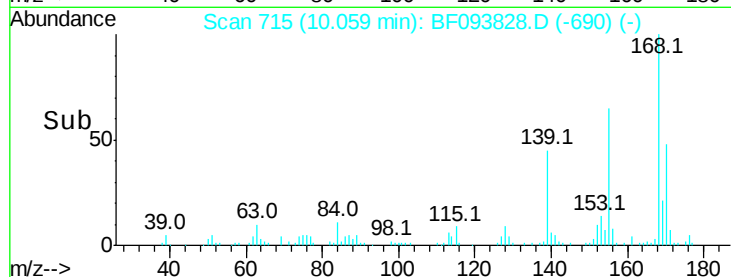
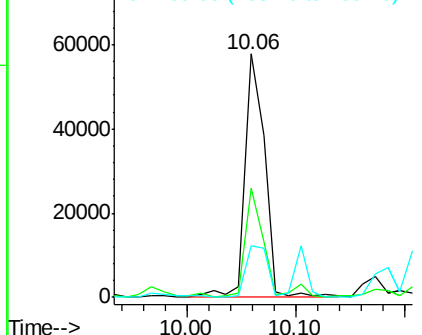
#54
Dibenzenofuran
Concen: 2.40 ng
RT: 10.06 min Scan# 715
Delta R.T. -0.01 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion:168 Resp: 72769
Ion Ratio Lower Upper
168 100
139 44.6 30.6 45.8
169 21.0 10.8 16.2#

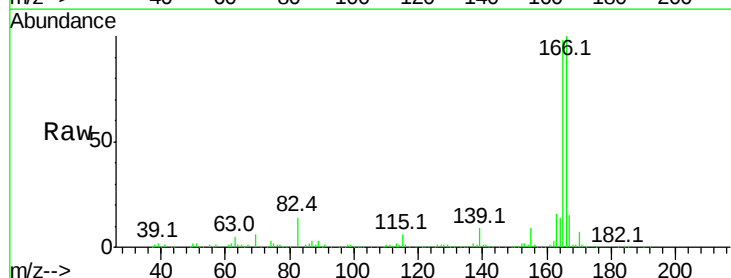


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

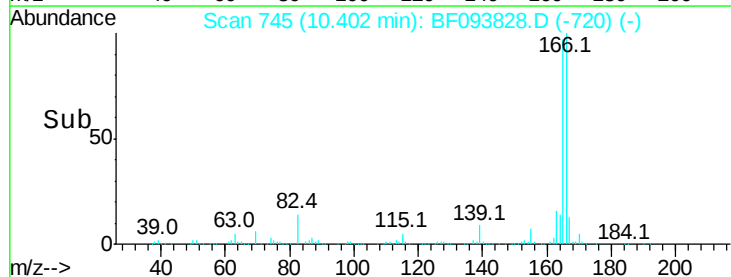
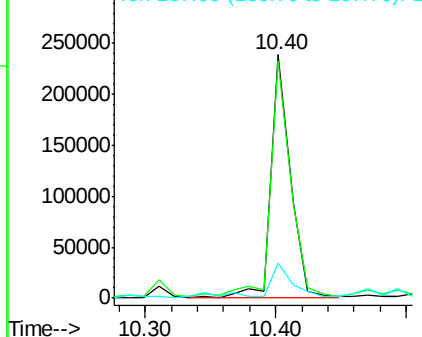


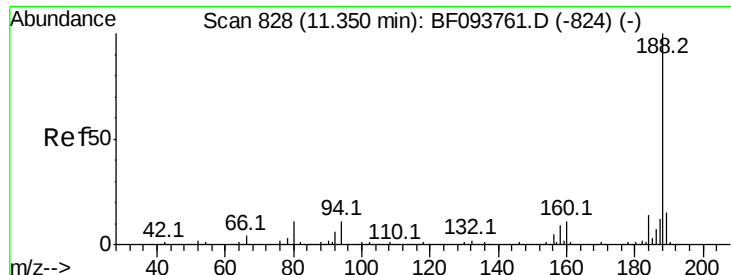
#57
Fluorene
Concen: 10.73 ng
RT: 10.40 min Scan# 745
Delta R.T. -0.01 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion:166 Resp: 248993
Ion Ratio Lower Upper
166 100
165 97.6 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

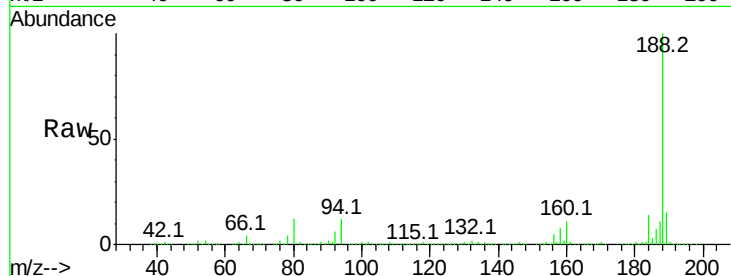




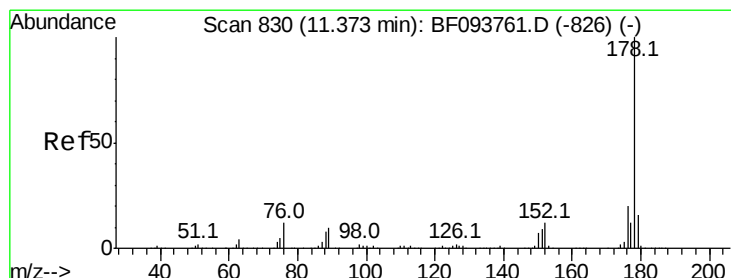
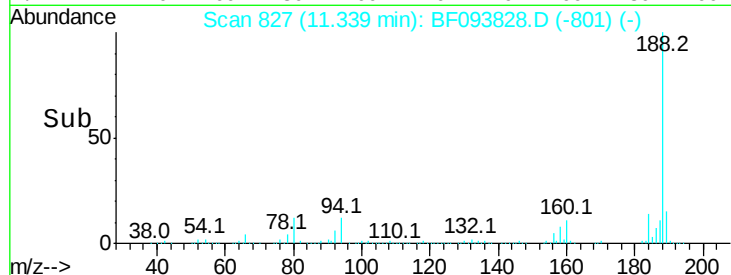
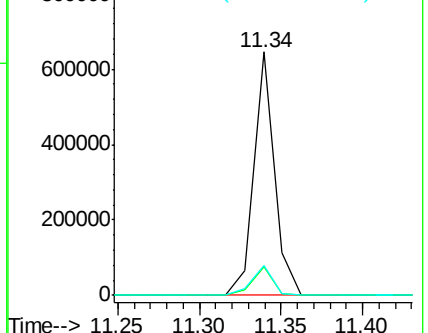
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min Scan# 827
Delta R.T. -0.00 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 568717
Ion Ratio Lower Upper
188 100
94 11.7 9.4 14.2
80 12.2 10.2 15.2

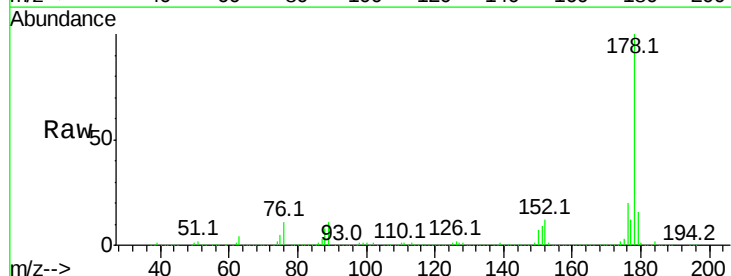


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

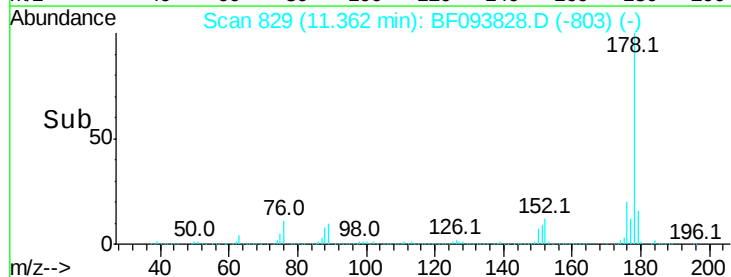
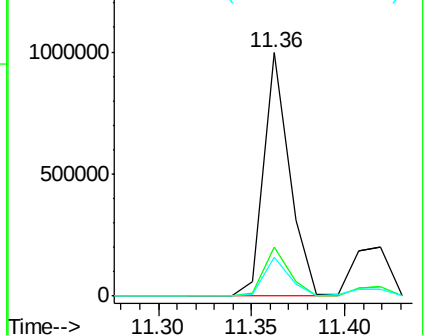


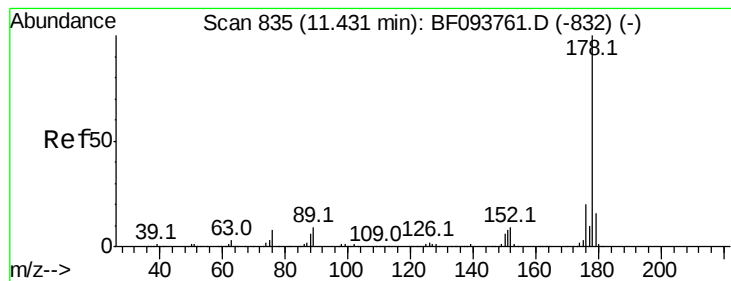
#70
Phenanthrene
Concen: 31.25 ng
RT: 11.36 min Scan# 829
Delta R.T. -0.00 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion:178 Resp: 946646
Ion Ratio Lower Upper
178 100
176 20.0 16.2 24.4
179 16.0 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: 8.28 ng

RT: 11.42 min Scan# 834

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

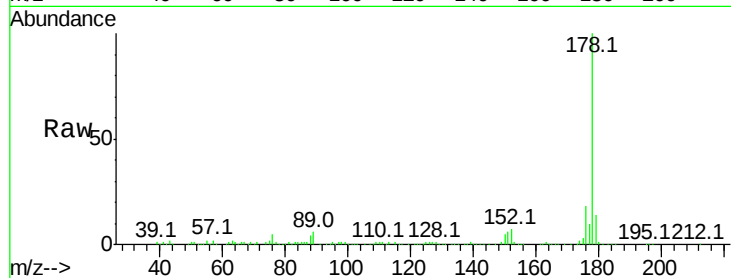
Tot Ion:178 Resp: 258041

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.8

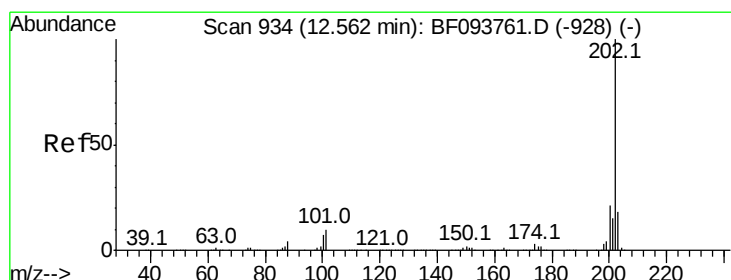
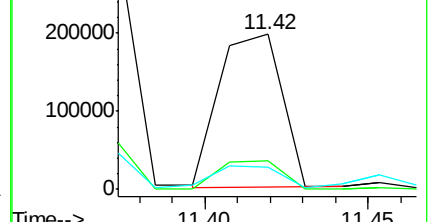
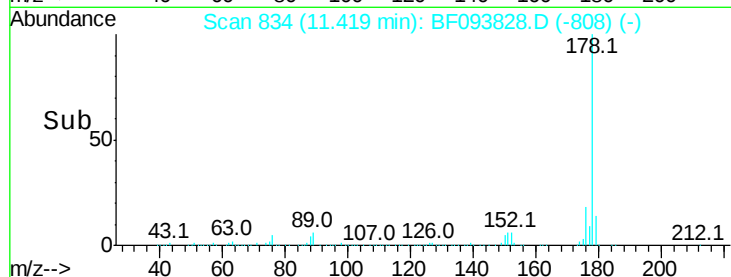
179 14.5 12.7 19.1



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: 15.33 ng

RT: 12.55 min Scan# 933

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

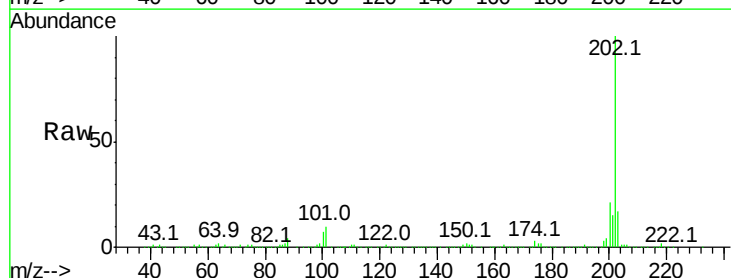
Tgt Ion:202 Resp: 477362

Ion Ratio Lower Upper

202 100

101 10.2 0.0 33.2

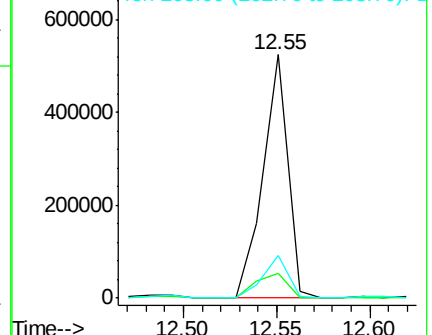
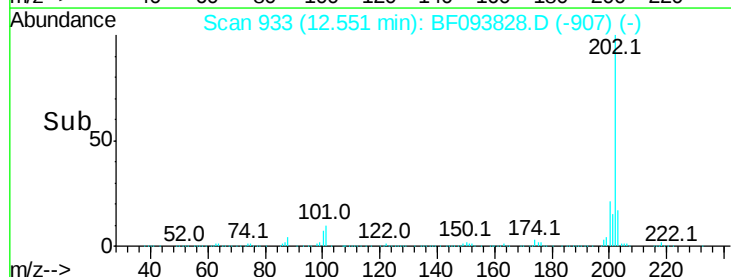
203 17.4 0.0 38.1

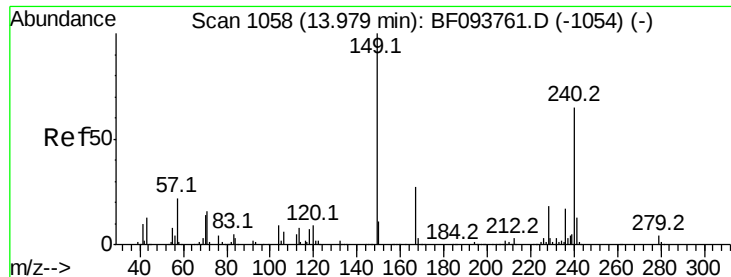


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.97 min Scan# 1057

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampled :

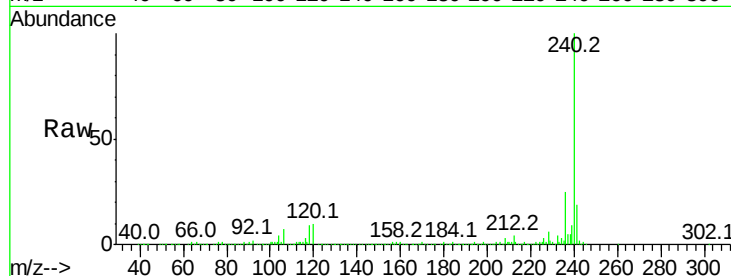
Tot Ion:240 Resp: 377286

Ion Ratio Lower Upper

240 100

120 9.8 5.8 8.8#

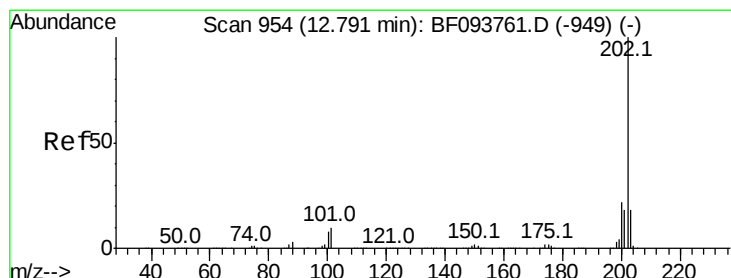
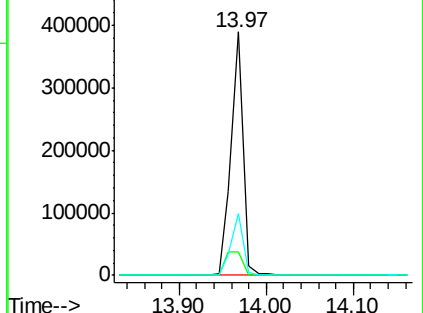
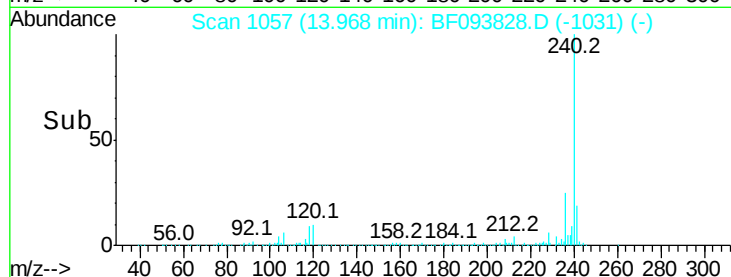
236 25.3 20.5 30.7



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: 17.95 ng

RT: 12.77 min Scan# 952

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

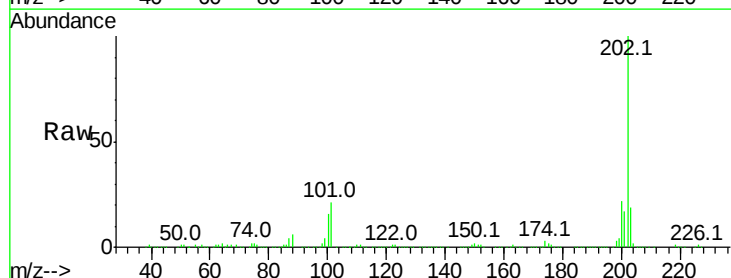
Tgt Ion:202 Resp: 563588

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

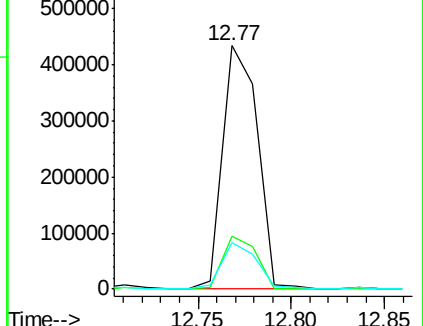
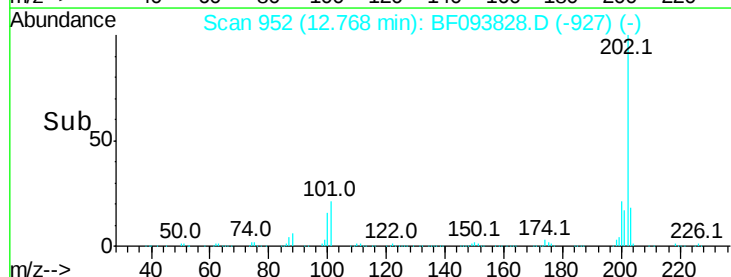
203 18.9 14.4 21.6

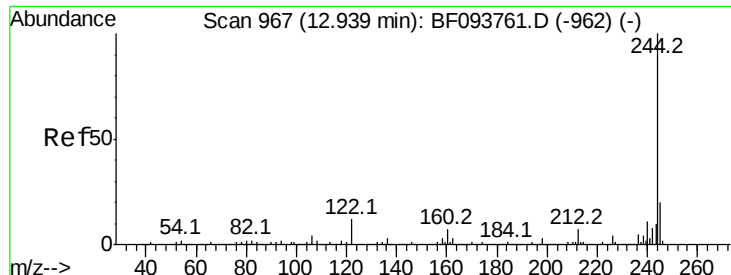


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 1.54 ng

RT: 12.92 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

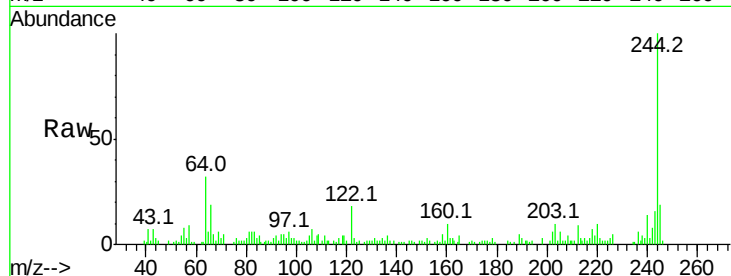
Tot Ion:244 Resp: 28519

Ion Ratio Lower Upper

244 100

212 8.6 6.0 9.0

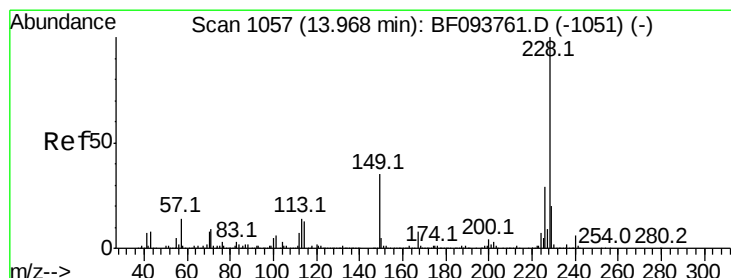
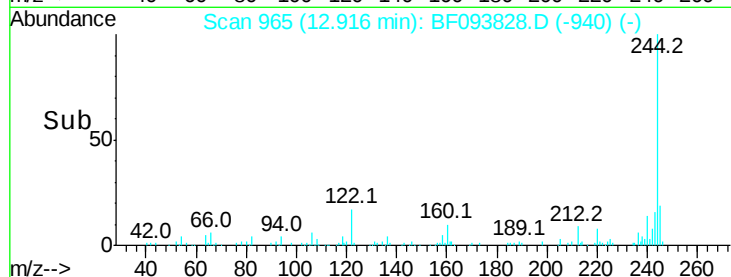
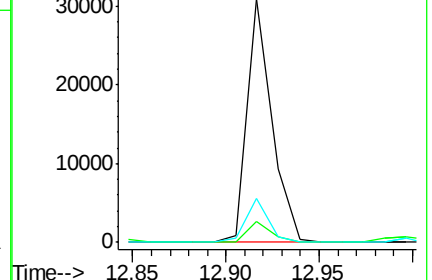
122 17.9 10.3 15.5#



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: 9.03 ng

RT: 13.96 min Scan# 1056

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

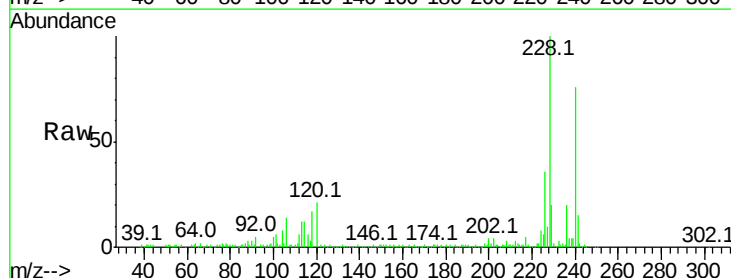
Tgt Ion:228 Resp: 213290

Ion Ratio Lower Upper

228 100

226 36.3 22.6 33.8#

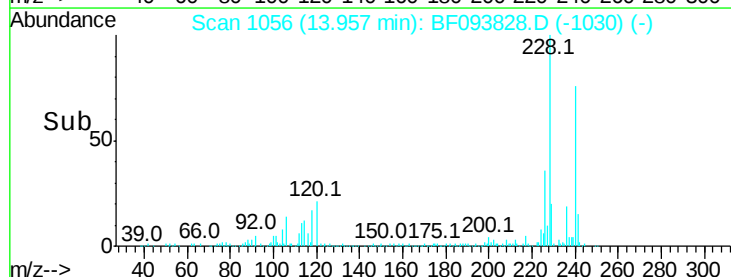
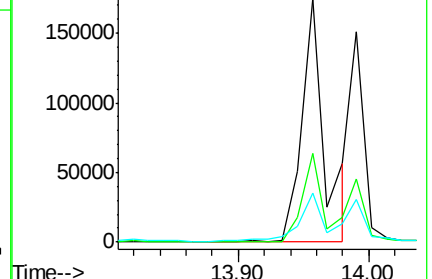
229 20.1 16.3 24.5

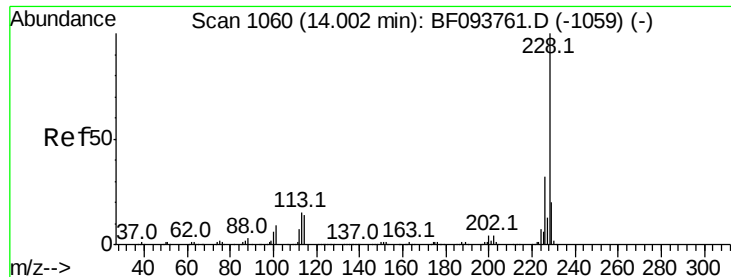


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.03 ng

RT: 13.96 min Scan# 1056

Delta R.T. -0.05 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

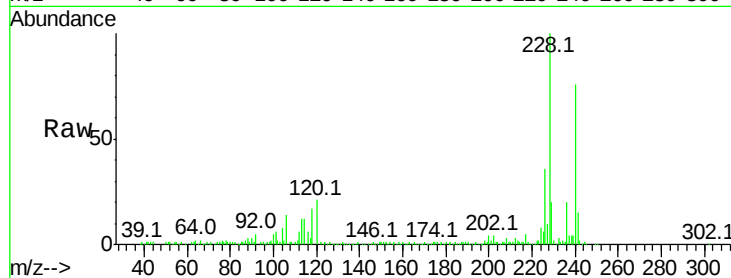
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 213290

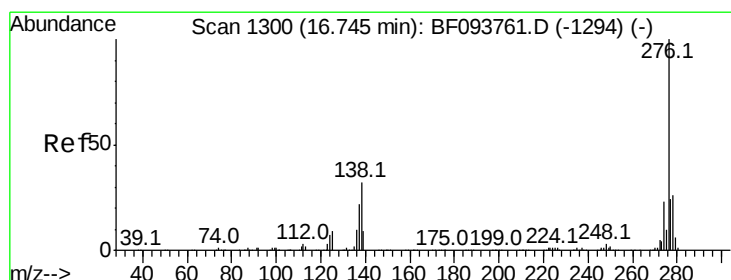
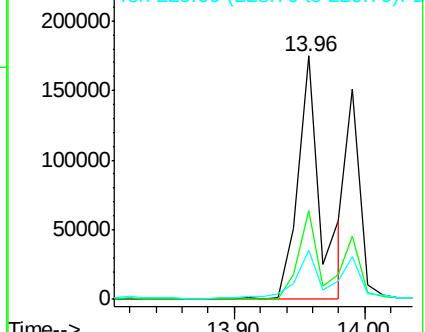
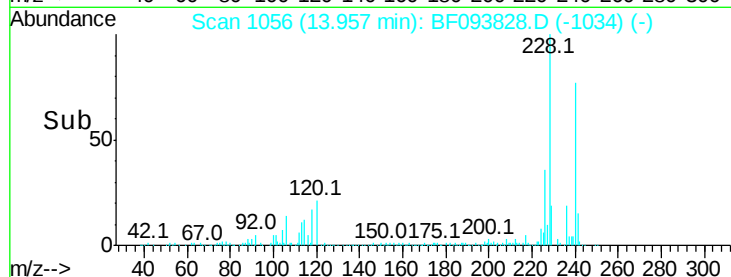
Ion	Ratio	Lower	Upper
228	100		
226	36.3	24.9	37.3
229	20.1	15.8	23.6



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: 2.92 ng

RT: 16.72 min Scan# 1298

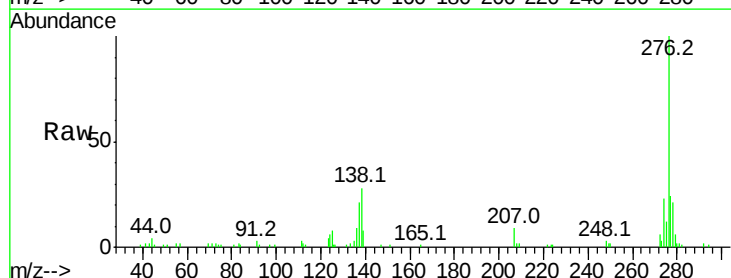
Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Tgt Ion:276 Resp: 56543

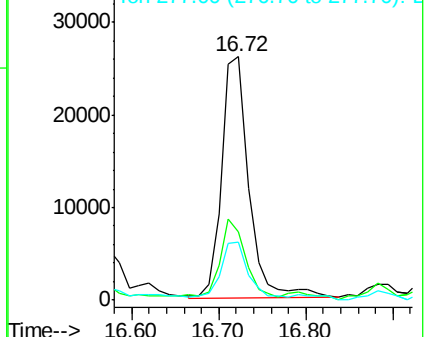
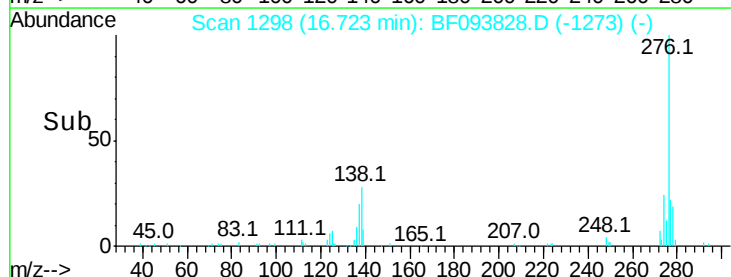
Ion	Ratio	Lower	Upper
276	100		
138	29.1	27.8	41.6
277	24.3	20.2	30.4

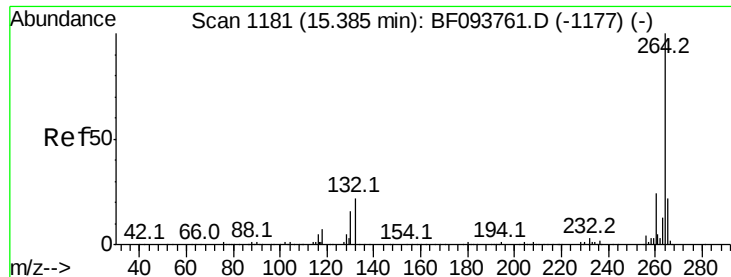


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



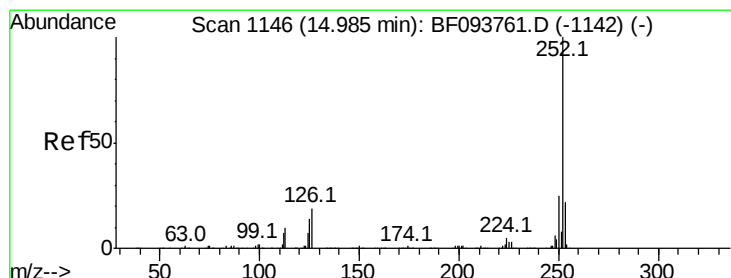
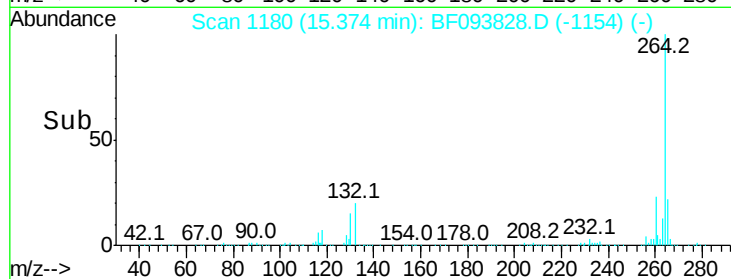
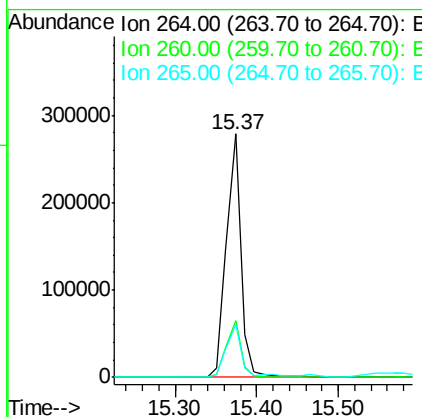
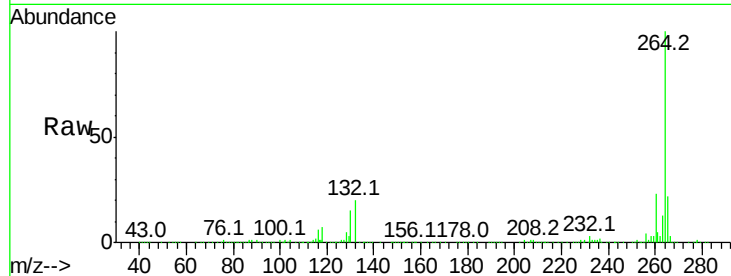


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 345650

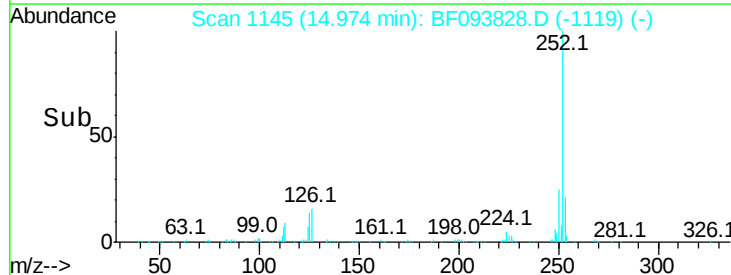
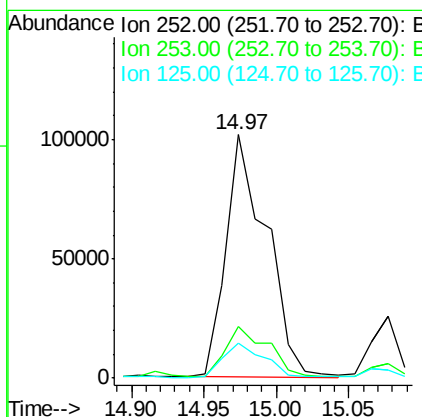
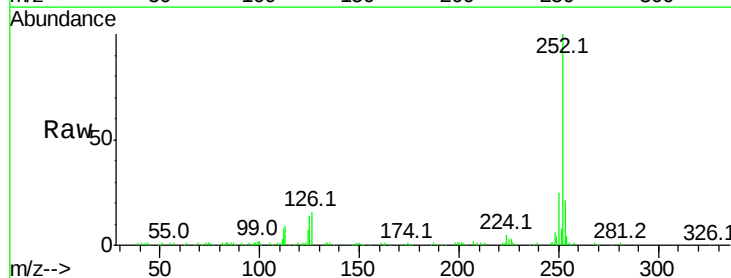
Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.5	29.3
265	21.9	17.2	25.8

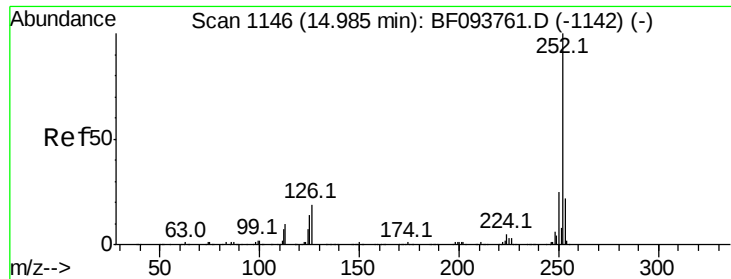


#87
Benzo(b)fluoranthene
Concen: 8.46 ng
RT: 14.97 min Scan# 1145
Delta R.T. -0.00 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion:252 Resp: 197245

Ion	Ratio	Lower	Upper
252	100		
253	21.4	18.1	27.1
125	14.3	9.8	14.8

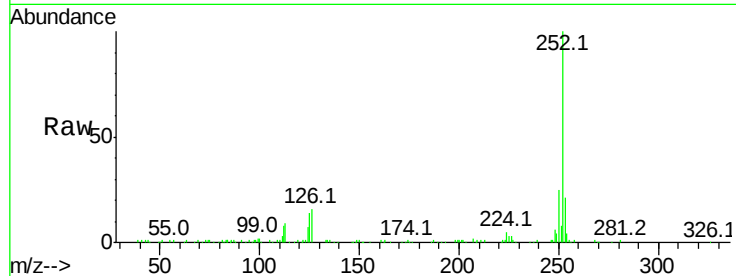




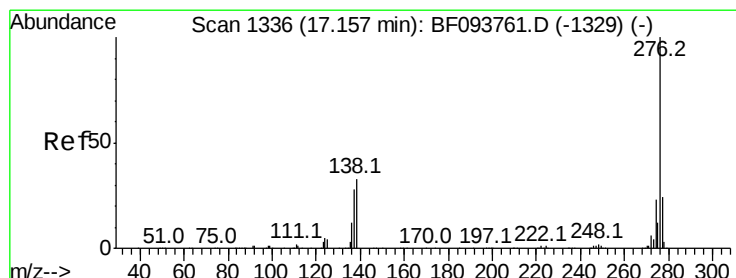
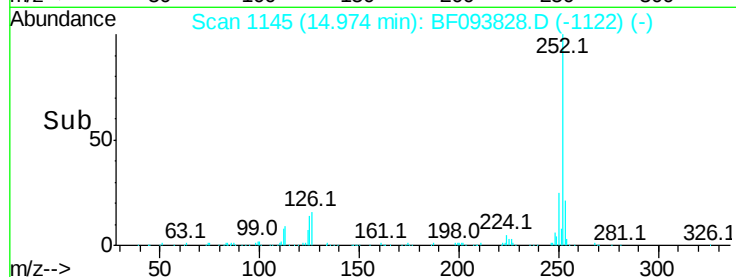
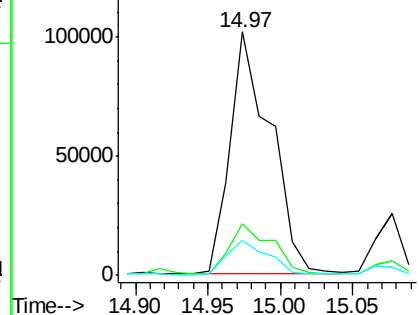
#88
Benzo(k)fluoranthene
Concen: 11.46 ng
RT: 14.97 min Scan# 1145
Delta R.T. -0.03 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 197103
Ion Ratio Lower Upper
252 100
253 21.4 18.4 27.6
125 14.3 13.1 19.7

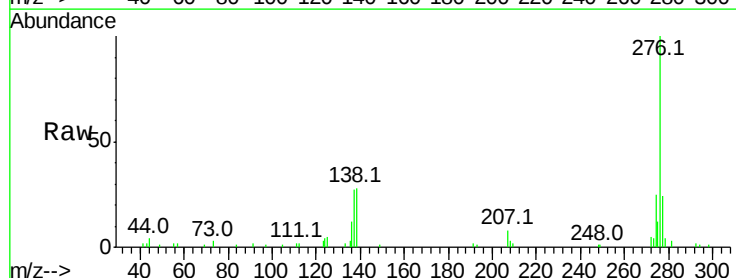


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 3.44 ng
RT: 17.12 min Scan# 1333
Delta R.T. -0.02 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion:276 Resp: 53632
Ion Ratio Lower Upper
276 100
277 23.9 18.6 28.0
138 27.9 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

