

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\
 Data File : BF097056.D
 Acq On : 26 Jul 2017 4:43
 Operator : SJ/JU
 Sample : I4305-04
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 26 05:35:17 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	125740	20.00	ng	0.00
21) Naphthalene-d8	7.78	136	477679	20.00	ng	0.00
38) Acenaphthene-d10	9.53	164	180575	20.00	ng	0.00
63) Phenanthrene-d10	11.00	188	272614	20.00	ng	0.00
75) Chrysene-d12	13.63	240	210657	20.00	ng	0.00
86) Perylene-d12	14.97	264	159871	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.10	112	698928	83.79	ng	0.00
7) Phenol-d6	6.16	99	851255	89.40	ng	0.00
23) Nitrobenzene-d5	7.07	82	472718	58.05	ng	0.00
41) 2,4,6-Tribromophenol	10.32	330	120767	84.65	ng	0.00
44) 2-Fluorobiphenyl	8.86	172	722988	67.95	ng	0.00
78) Terphenyl-d14	12.59	244	461836	44.70	ng	0.00

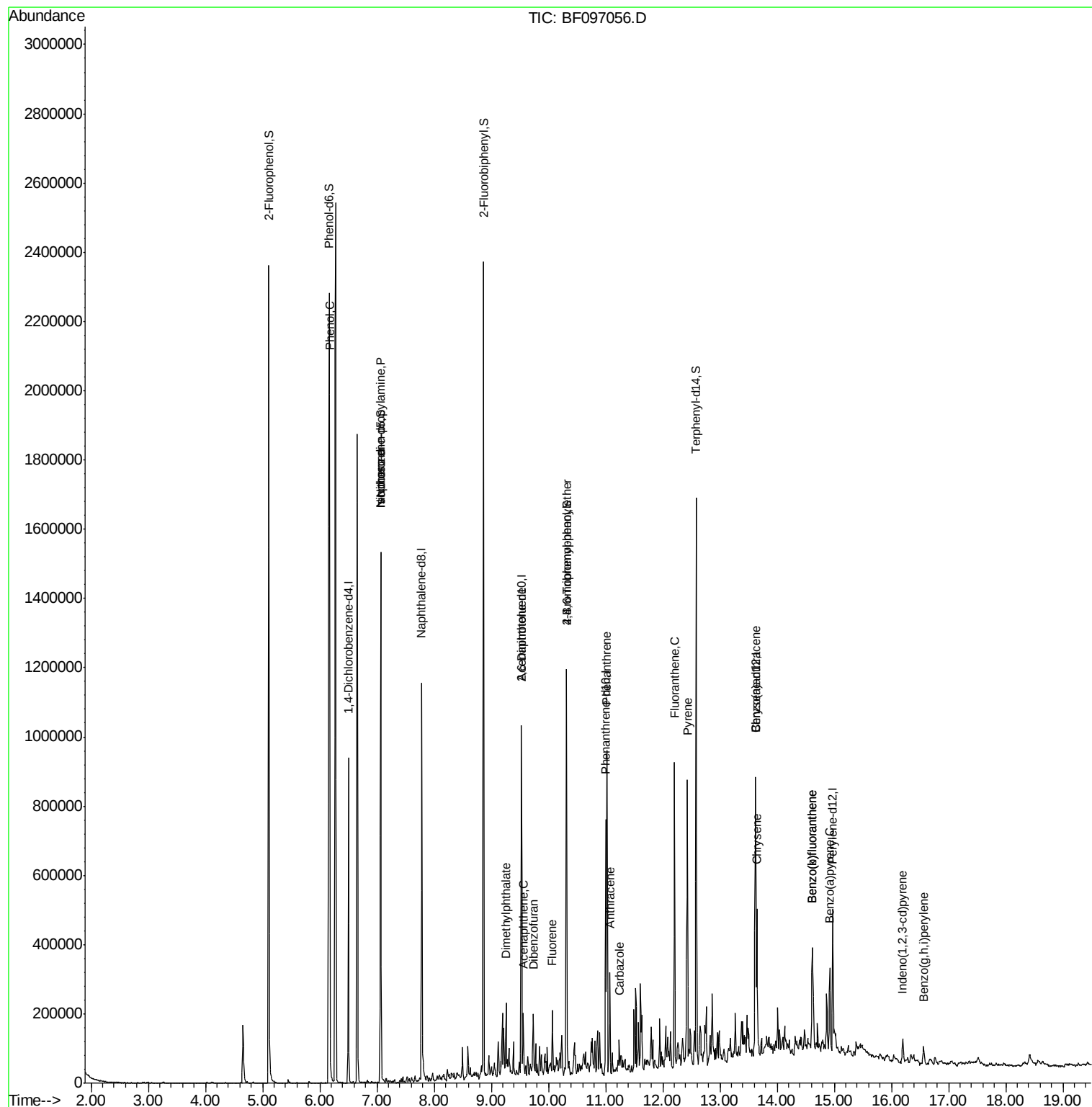
Target Compounds						Qvalue
10) Phenol	6.17	94	32443	2.87	ng	99
19) n-Nitroso-di-n-propylamine	7.07	70	64223	10.25	ng	# 87
25) Isophorone	7.07	82	467330	29.31	ng	# 67
49) Dimethylphthalate	9.26	163	69415	5.06	ng	100
50) 2,6-Dinitrotoluene	9.53	165	27100	9.32	ng	# 35
51) Acenaphthene	9.56	154	32935	3.21	ng	95
54) Dibenzofuran	9.73	168	41007	3.00	ng	# 95
57) Fluorene	10.07	166	39020	3.80	ng	98
66) 4-Bromophenyl-phenylether	10.32	248	7675	2.82	ng	# 1
70) Phenanthrene	11.03	178	365243	25.01	ng	97
71) Anthracene	11.07	178	100140	6.69	ng	98
72) Carbazole	11.24	167	37150	2.52	ng	97
74) Fluoranthene	12.20	202	352592	24.64	ng	98
77) Pyrene	12.43	202	343168	19.90	ng	97
80) Benzo(a)anthracene	13.62	228	173943	12.76	ng	99
82) Chrysene	13.65	228	141582	10.64	ng	97
85) Indeno(1,2,3-cd)pyrene	16.20	276	39397	3.45	ng	# 92
87) Benzo(b)fluoranthene	14.62	252	176020	18.32	ng	# 97
88) Benzo(k)fluoranthene	14.62	252	176020	19.22	ng	98
89) Benzo(a)pyrene	14.92	252	94515	10.75	ng	97
91) Benzo(a,h,i)perylene	16.56	276	36160	4.78	ng	97

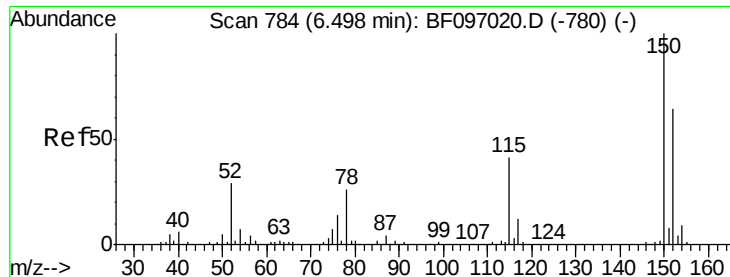
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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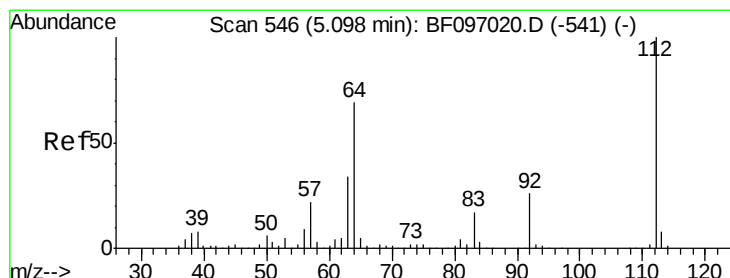
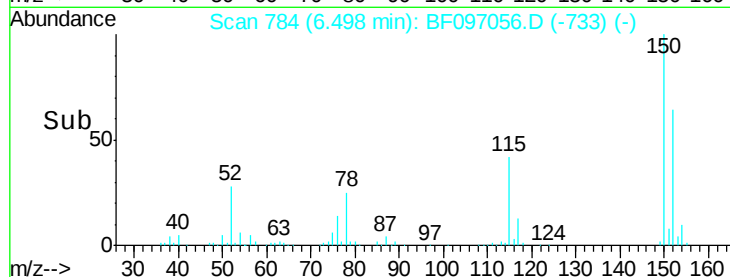
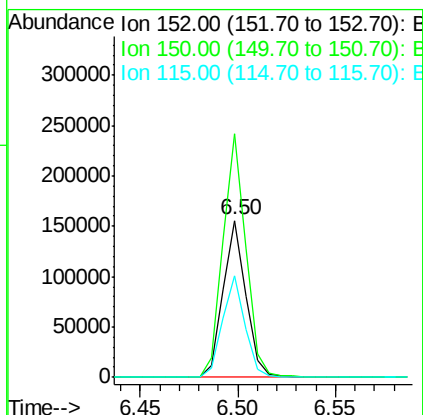
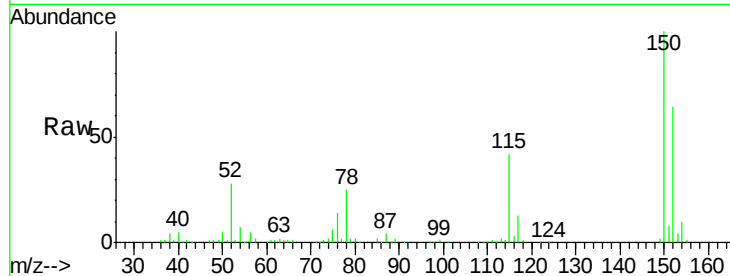


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.50 min Scan# 784
Delta R.T. -0.00 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

Instrument :
BNA_F
ClientSampleId :

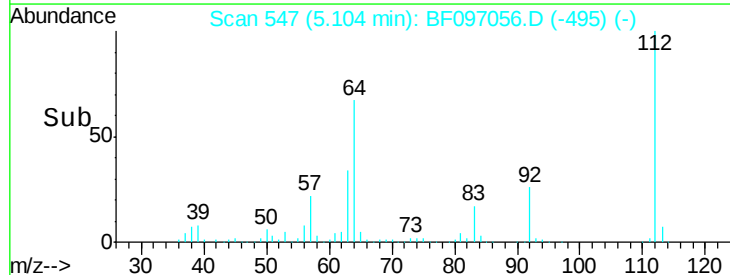
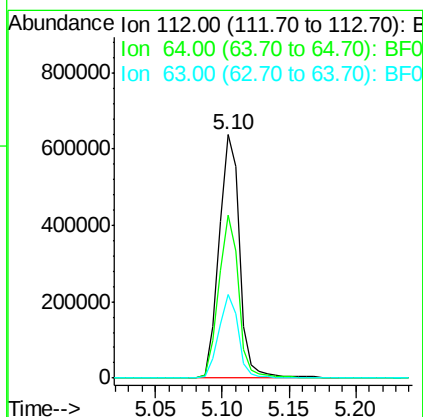
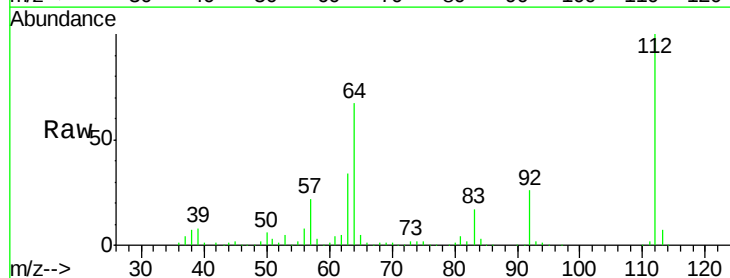
Tot Ion:152 Resp: 125740
Ion Ratio Lower Upper
152 100
150 155.4 126.2 189.2
115 64.5 52.2 78.2

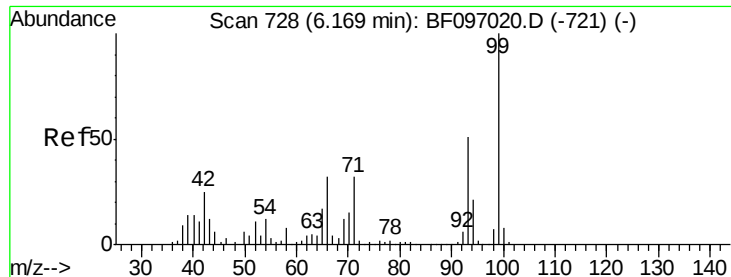


#5

2-Fluorophenol
Concen: 83.79 ng
RT: 5.10 min Scan# 547
Delta R.T. 0.01 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

Tgt Ion:112 Resp: 698928
Ion Ratio Lower Upper
112 100
64 66.9 46.0 69.0
63 34.3 23.4 35.0





#7

Phenol-d6

Concen: 89.40 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA_F

ClientSampled :

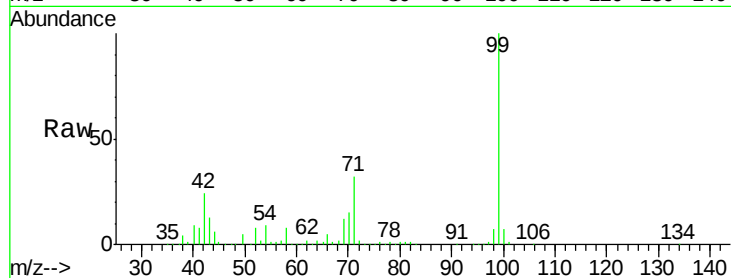
Tot Ion: 99 Resp: 851255

Ion Ratio Lower Upper

99 100

42 23.9 13.5 20.3#

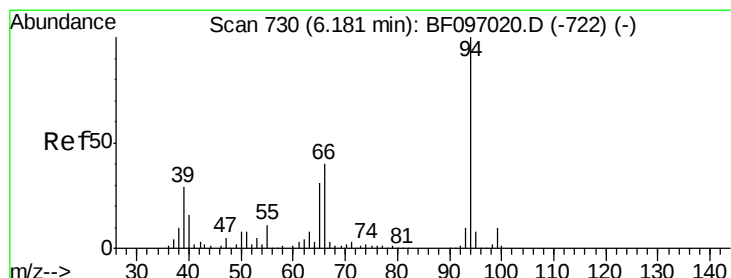
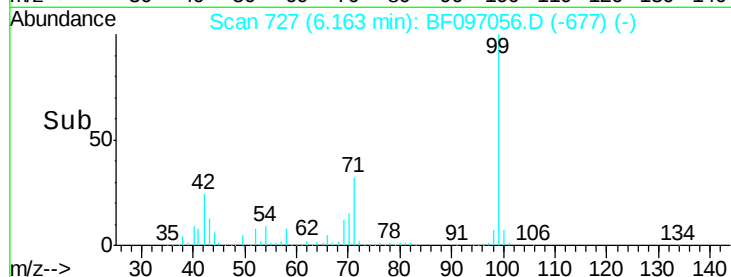
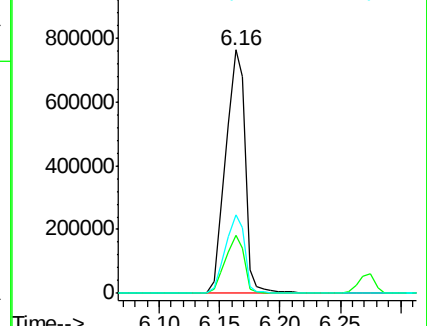
71 32.3 24.5 36.7



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



#10

Phenol

Concen: 2.87 ng

RT: 6.17 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

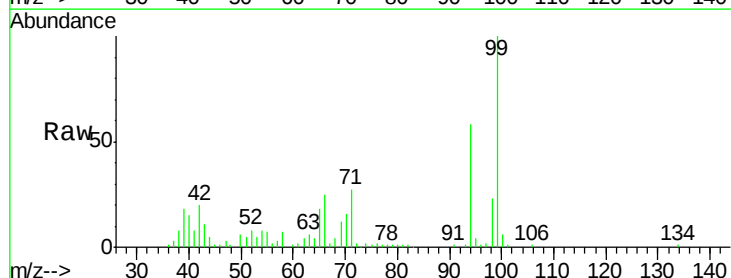
Tgt Ion: 94 Resp: 32443

Ion Ratio Lower Upper

94 100

65 31.4 9.9 49.9

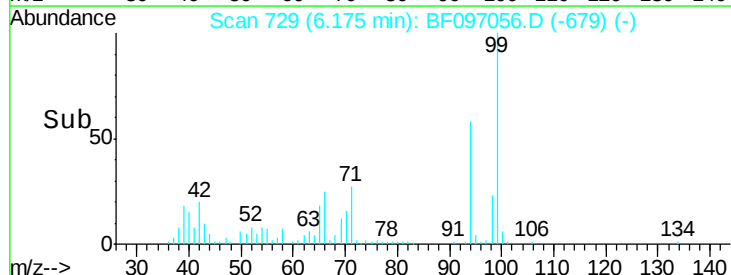
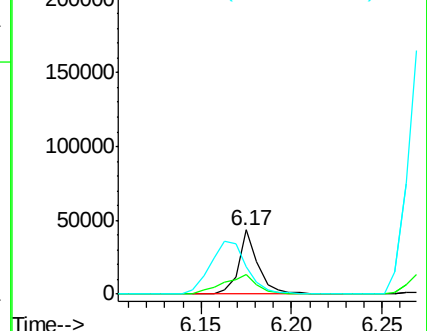
66 43.4 23.1 63.1

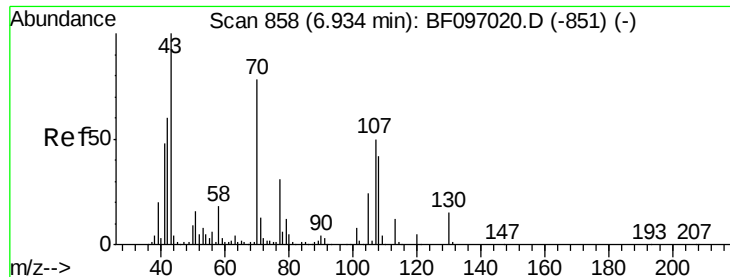


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

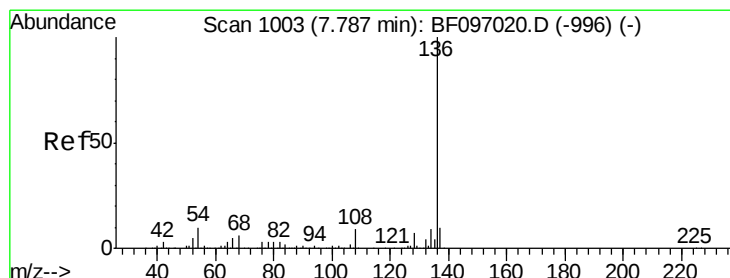
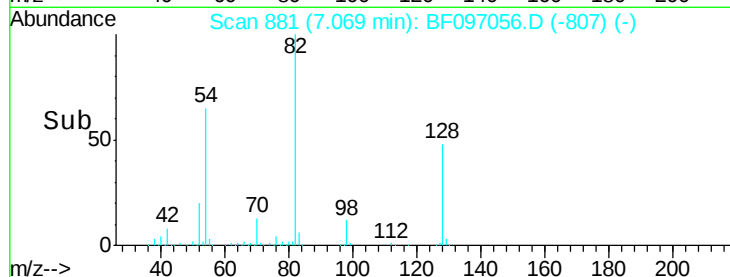
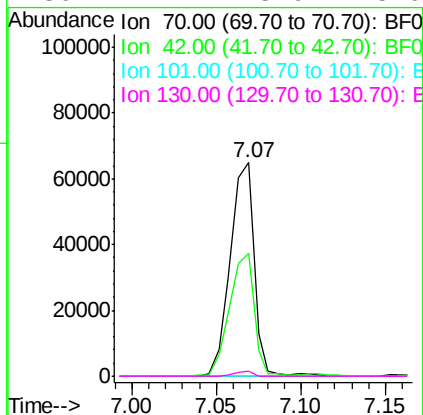
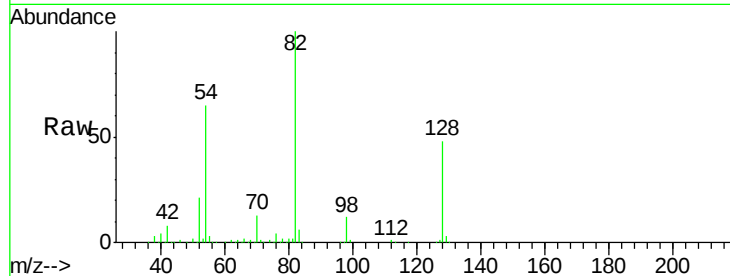




#19
n-Nitroso-di-n-propylamine
Concen: 10.25 ng
RT: 7.07 min Scan# 881
Delta R.T. 0.14 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

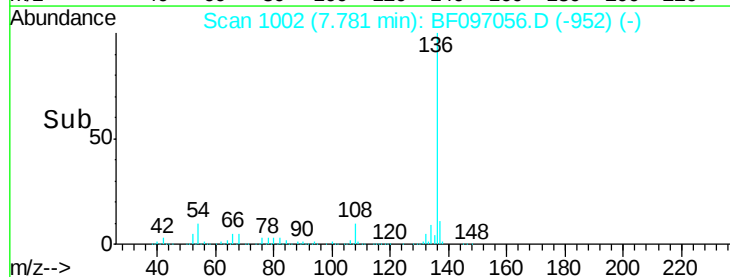
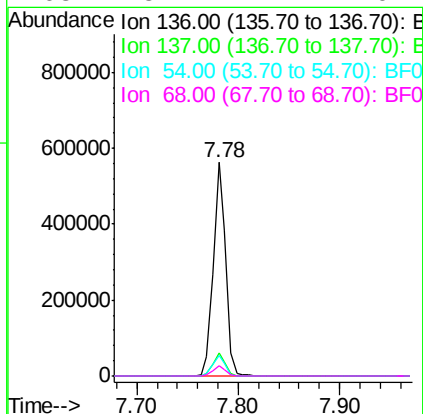
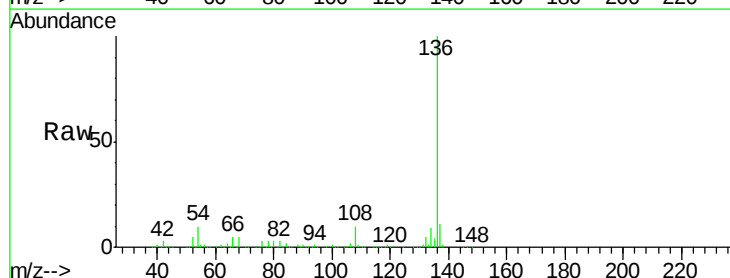
Instrument :
BNA_F
ClientSampled :

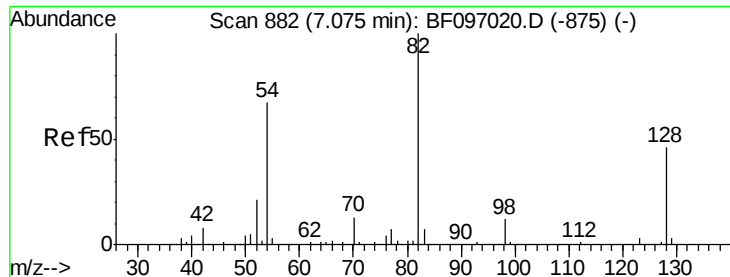
Tot Ion: 70 Resp: 64223
Ion Ratio Lower Upper
70 100
42 57.5 47.2 70.8
101 0.0 7.2 10.8#
130 2.2 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.78 min Scan# 1002
Delta R.T. -0.01 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

Tgt Ion:136 Resp: 477679
Ion Ratio Lower Upper
136 100
137 11.1 8.5 12.7
54 9.9 4.9 7.3#
68 5.1 4.1 6.1

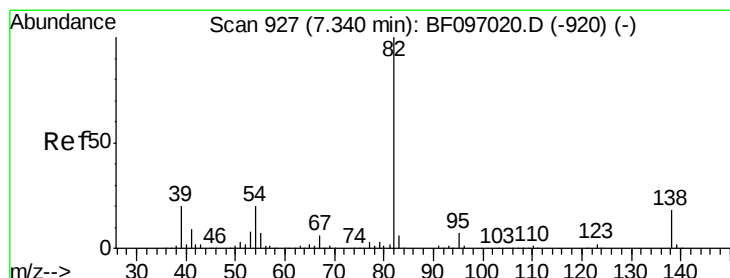
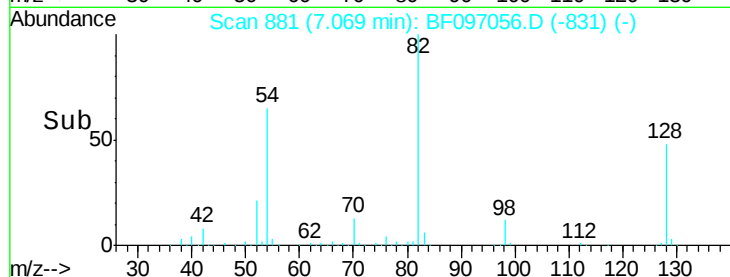
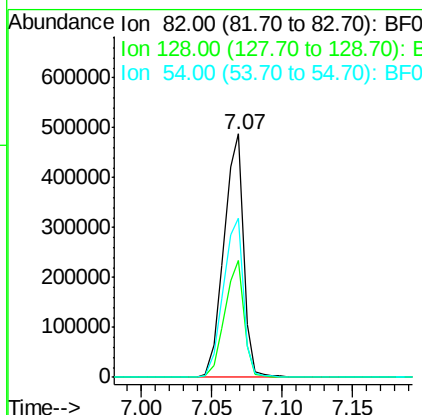
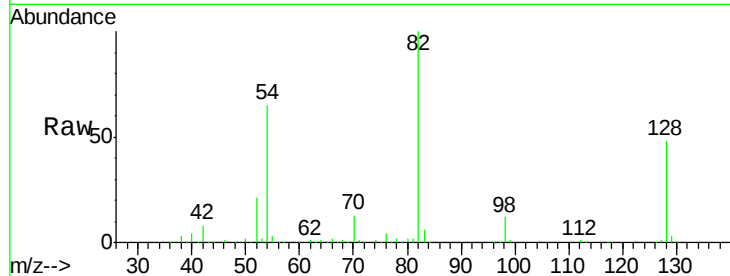




#23
 Nitrobenzene-d5
 Concen: 58.05 ng
 RT: 7.07 min Scan# 881
 Delta R.T. -0.01 min
 Lab File: BF097056.D
 Acq: 26 Jul 2017 4:43

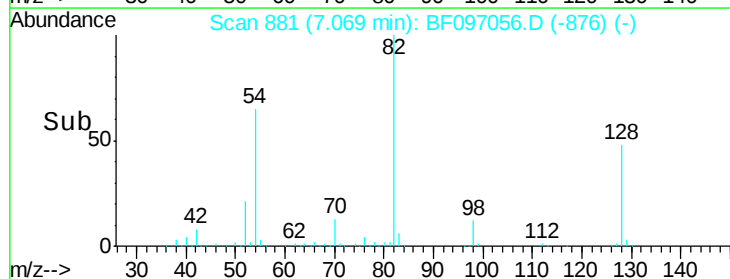
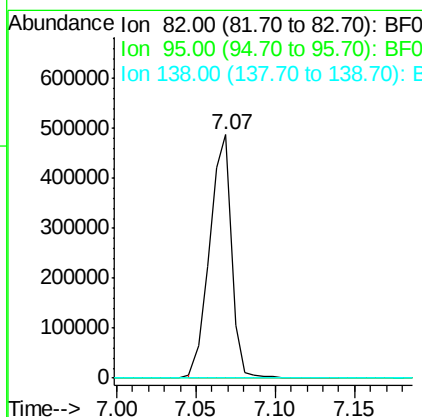
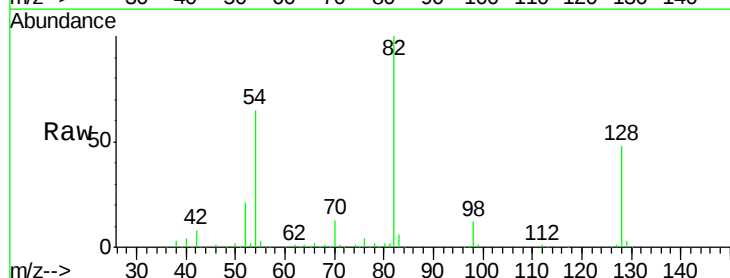
Instrument :
 BNA_F
 ClientSampleId :

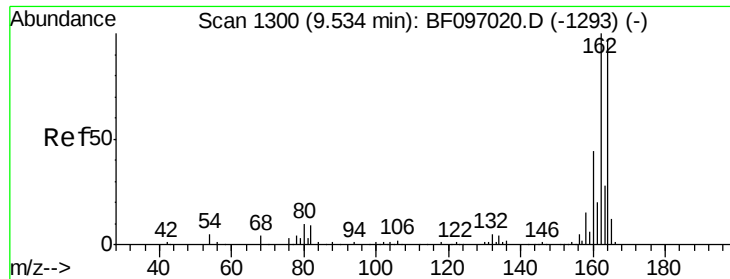
Tot Ion: 82 Resp: 472718
 Ion Ratio Lower Upper
 82 100
 128 48.1 34.0 51.0
 54 65.4 42.2 63.2#



#25
 Isophorone
 Concen: 29.31 ng
 RT: 7.07 min Scan# 881
 Delta R.T. -0.27 min
 Lab File: BF097056.D
 Acq: 26 Jul 2017 4:43

Tgt Ion: 82 Resp: 467330
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.3 7.9#
 138 0.0 13.1 19.7#

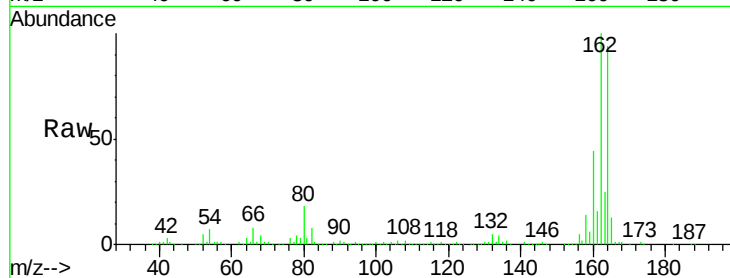




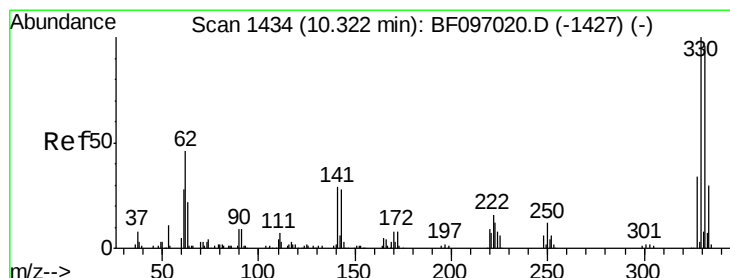
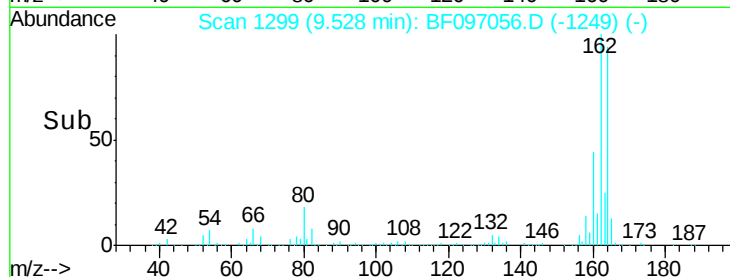
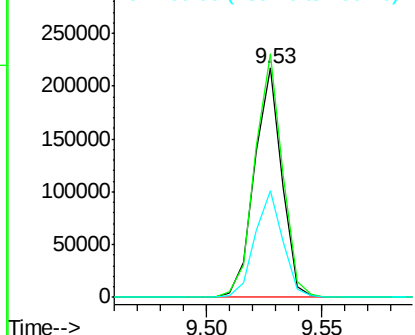
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: BF097056.D
 Acq: 26 Jul 2017 4:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	106.2	82.6	123.8
160	46.4	36.2	54.2

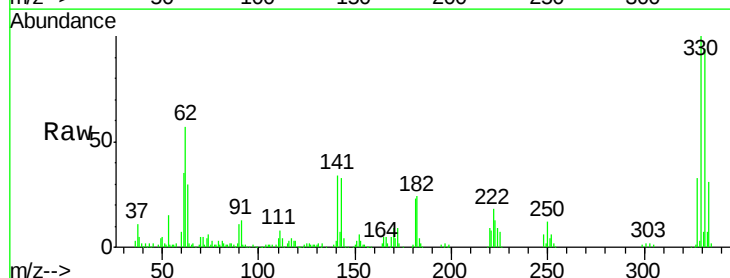


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

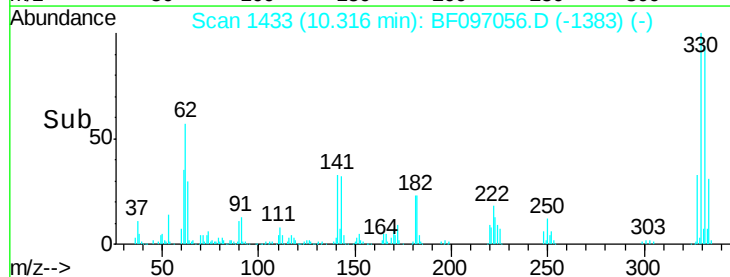
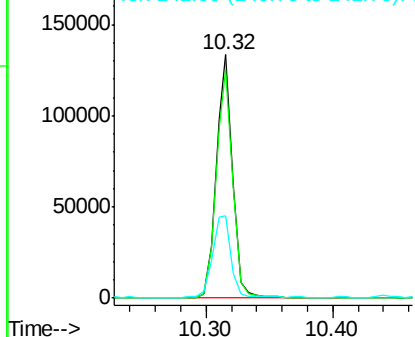


#41
 2,4,6-Tribromophenol
 Concen: 84.65 ng
 RT: 10.32 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: BF097056.D
 Acq: 26 Jul 2017 4:43

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.9	76.6	115.0
141	40.4	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

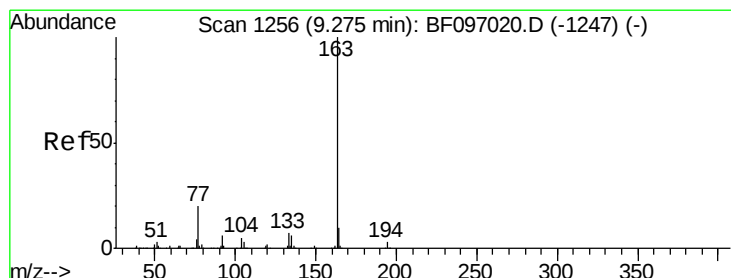
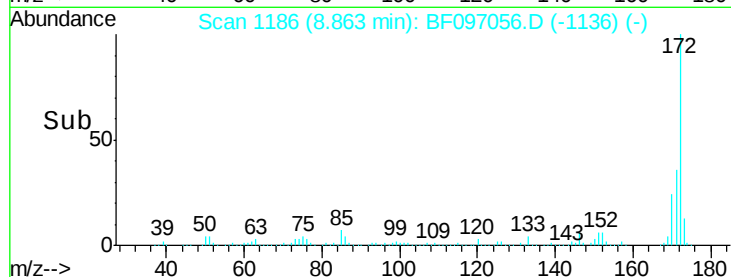
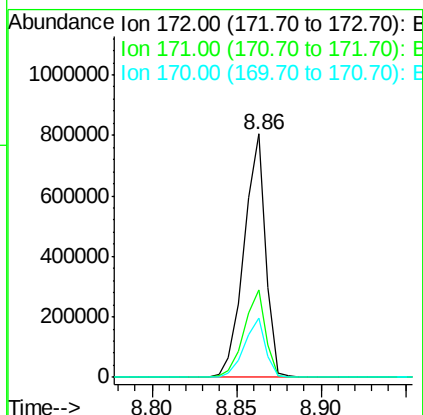
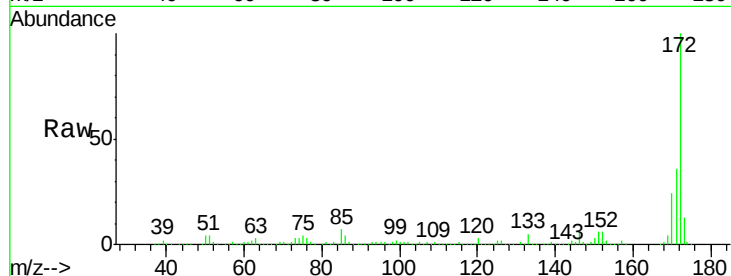




#44
2-Fluorobiphenyl
Concen: 67.95 ng
RT: 8.86 min Scan# 1186
Delta R.T. -0.01 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

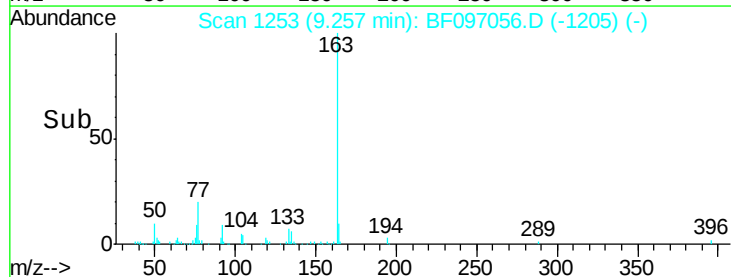
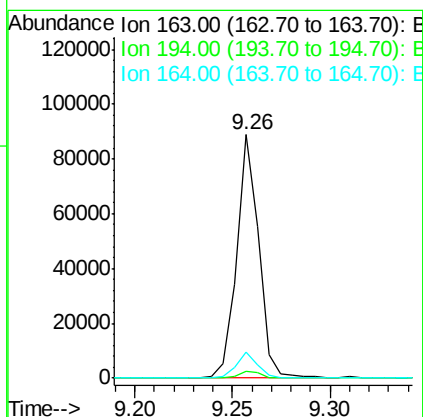
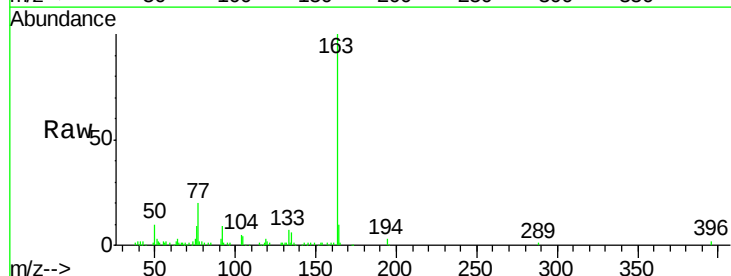
Instrument :
BNA_F
ClientSampleId :

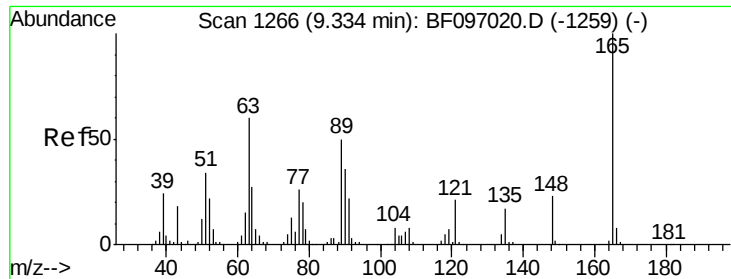
Tot Ion:172 Resp: 722988
Ion Ratio Lower Upper
172 100
171 36.1 29.6 44.4
170 24.1 19.8 29.8



#49
Dimethylphthalate
Concen: 5.06 ng
RT: 9.26 min Scan# 1253
Delta R.T. -0.02 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

Tgt Ion:163 Resp: 69415
Ion Ratio Lower Upper
163 100
194 3.0 2.6 4.0
164 10.4 8.4 12.6

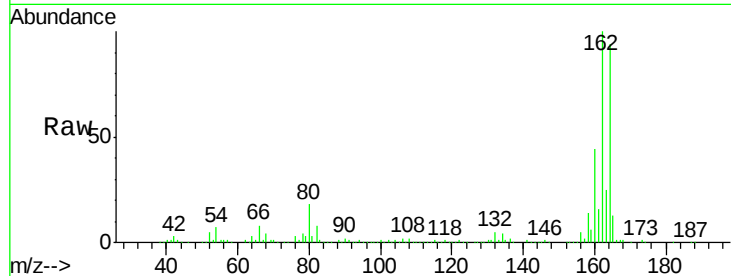




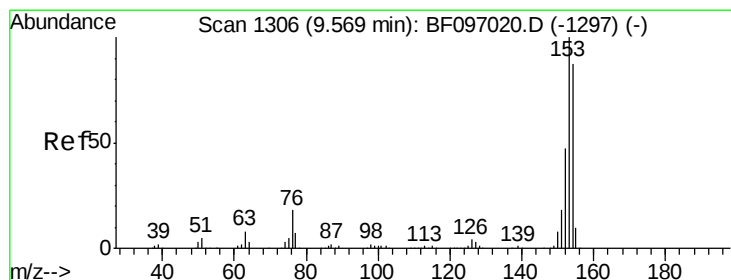
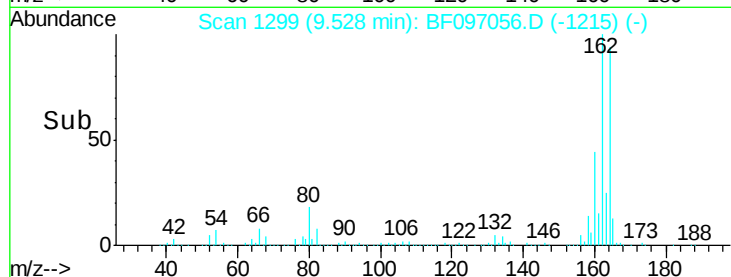
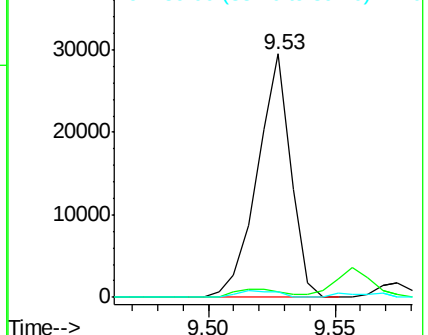
#50
2,6-Dinitrotoluene
Concen: 9.32 ng
RT: 9.53 min Scan# 1299
Delta R.T. 0.19 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 27100
Ion Ratio Lower Upper
165 100
63 2.4 34.3 51.5#
89 2.2 37.1 55.7#

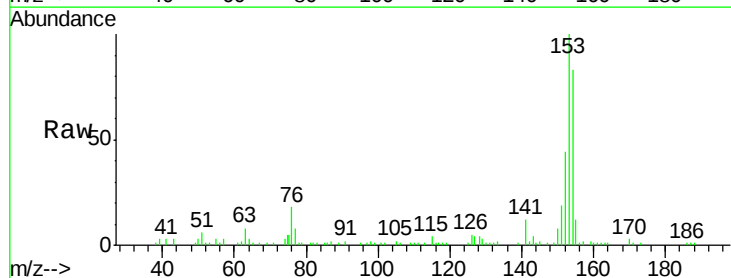


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

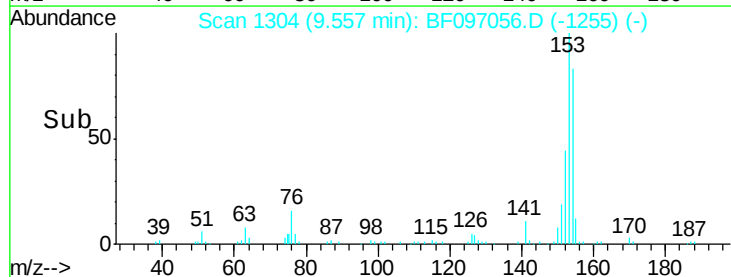
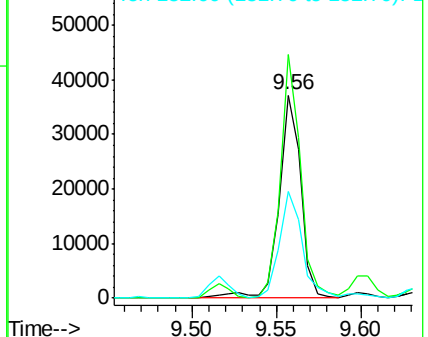


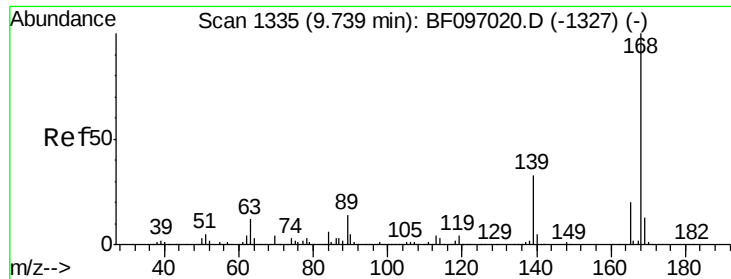
#51
Acenaphthene
Concen: 3.21 ng
RT: 9.56 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

Tgt Ion:154 Resp: 32935
Ion Ratio Lower Upper
154 100
153 119.8 90.5 135.7
152 52.2 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: 3.00 ng

RT: 9.73 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA_F

ClientSampleId :

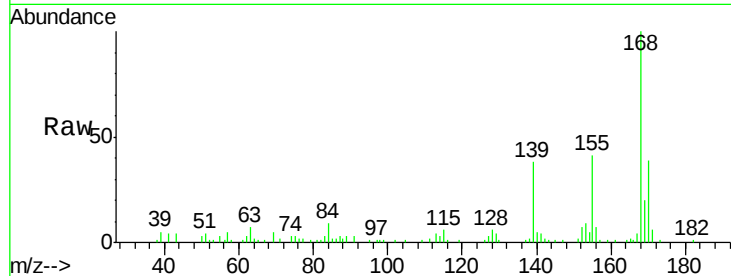
Tot Ion:168 Resp: 41007

Ion Ratio Lower Upper

168 100

139 37.7 30.6 45.8

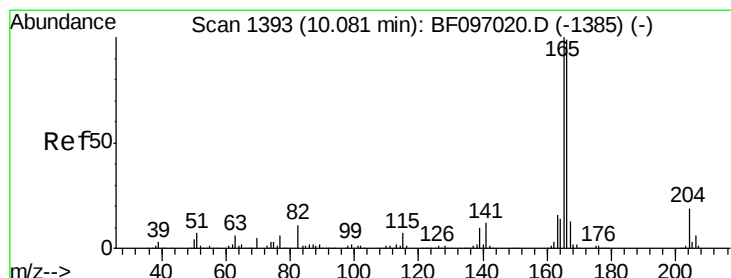
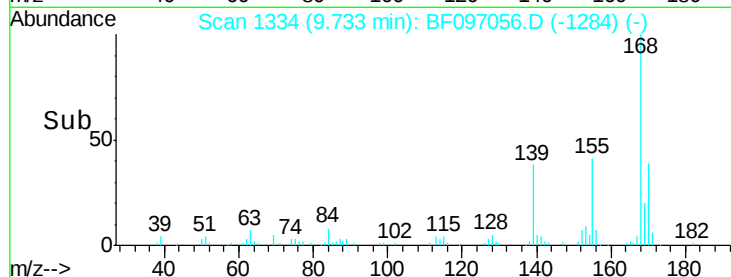
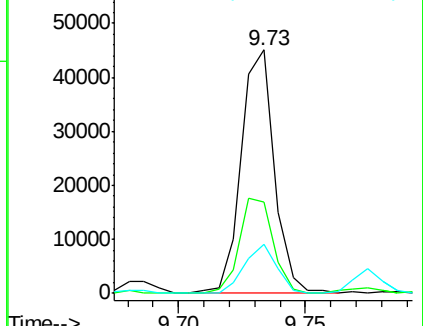
169 20.2 10.8 16.2#



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: 3.80 ng

RT: 10.07 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

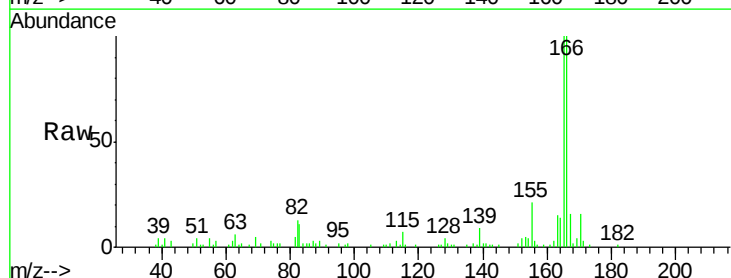
Tgt Ion:166 Resp: 39020

Ion Ratio Lower Upper

166 100

165 99.6 78.8 118.2

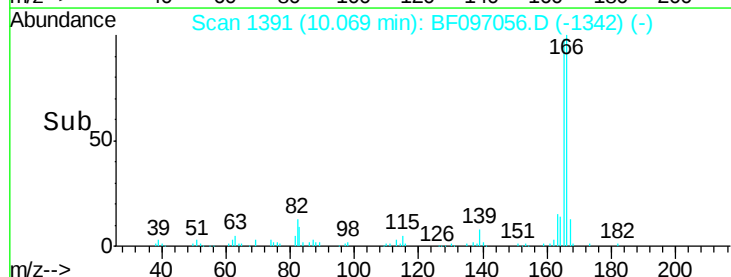
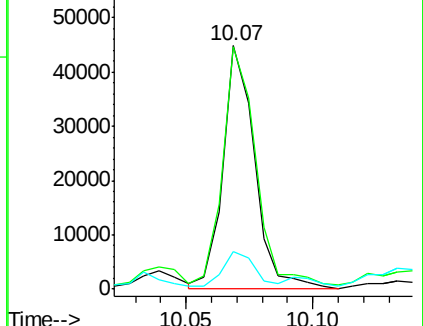
167 15.5 10.6 16.0

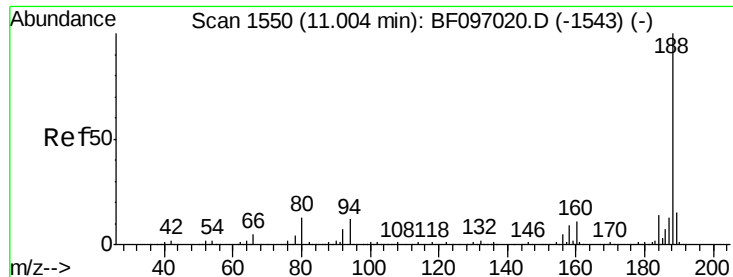


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.00 min Scan# 1549

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA_F

ClientSampleId :

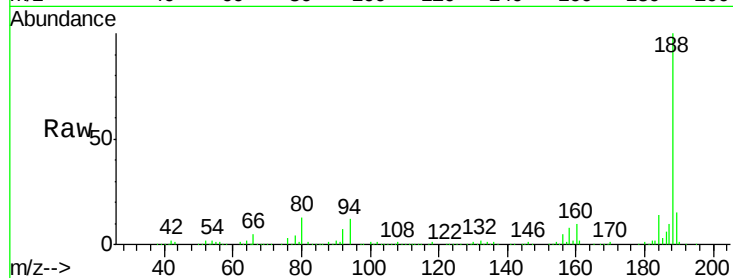
Tot Ion:188 Resp: 272614

Ion Ratio Lower Upper

188 100

94 11.8 9.4 14.2

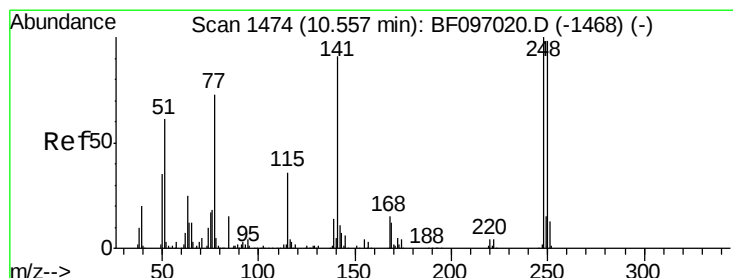
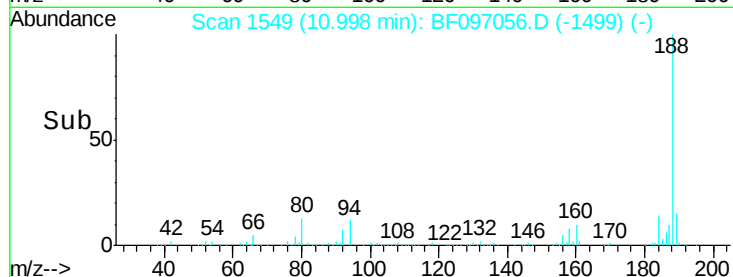
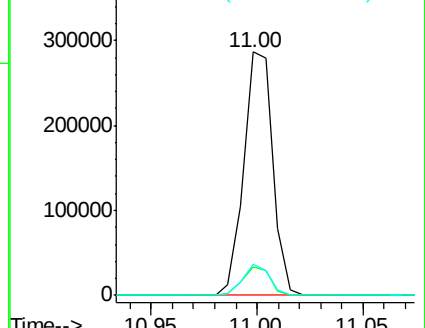
80 13.0 10.2 15.2



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



#66

4-Bromophenyl-phenylether

Concen: 2.82 ng

RT: 10.32 min Scan# 1433

Delta R.T. -0.24 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

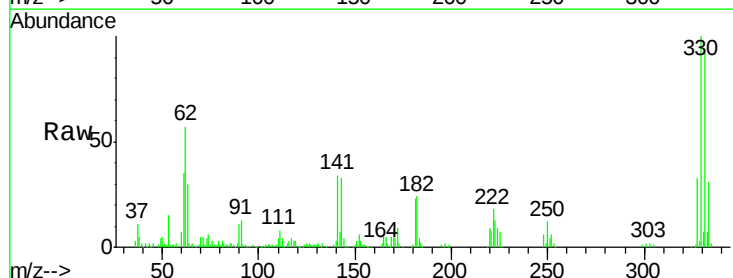
Tgt Ion:248 Resp: 7675

Ion Ratio Lower Upper

248 100

250 210.0 76.8 115.2#

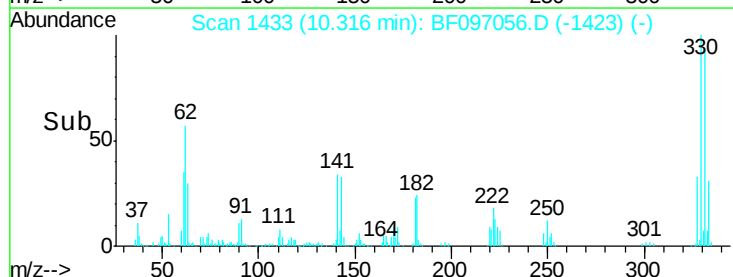
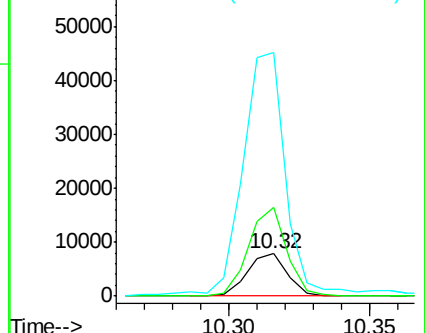
141 576.9 68.6 103.0#

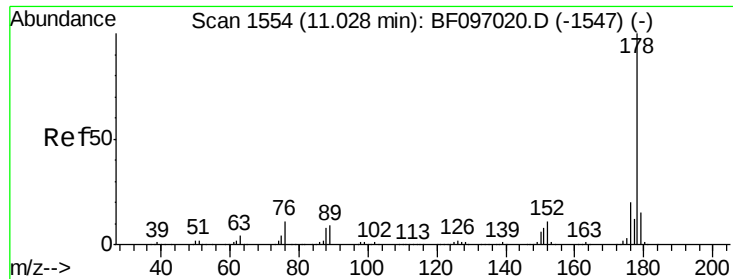


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

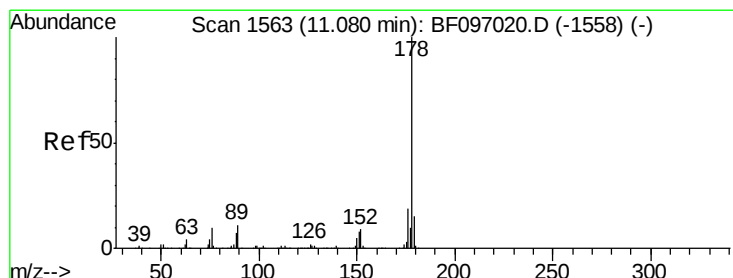
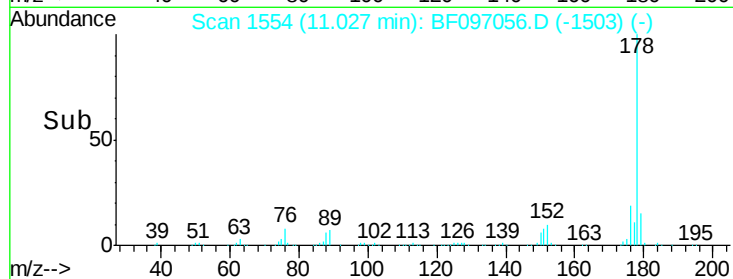
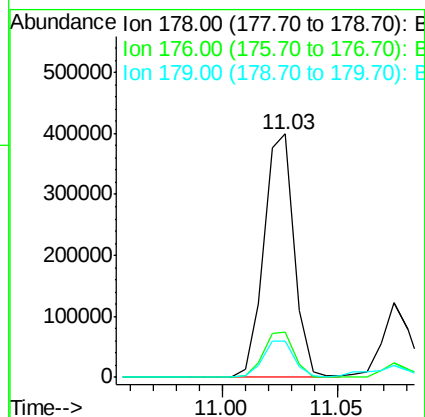
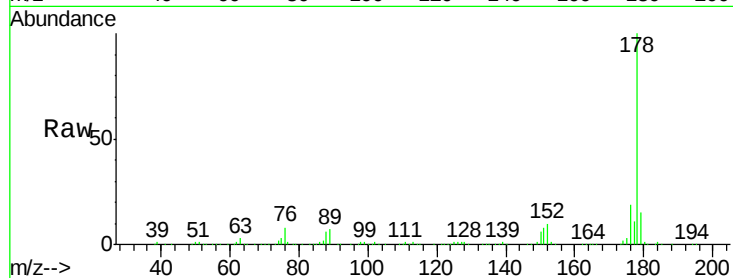




#70
Phenanthrene
Concen: 25.01 ng
RT: 11.03 min Scan# 1554
Delta R.T. -0.00 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

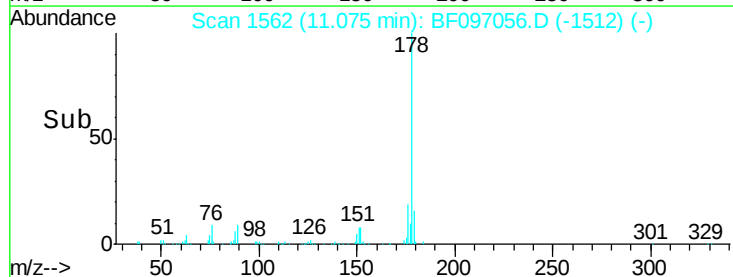
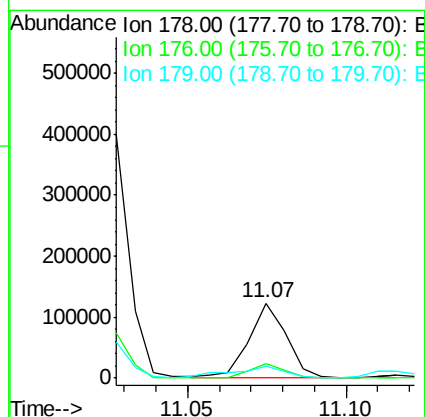
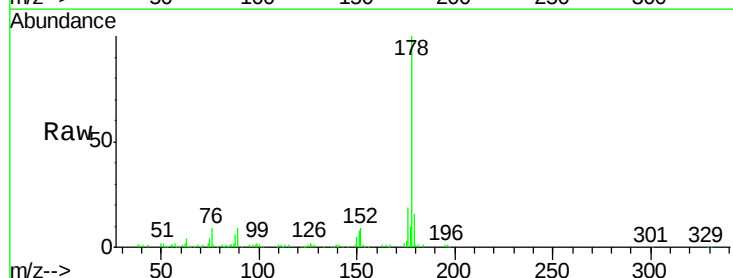
Instrument :
BNA_F
ClientSampled :

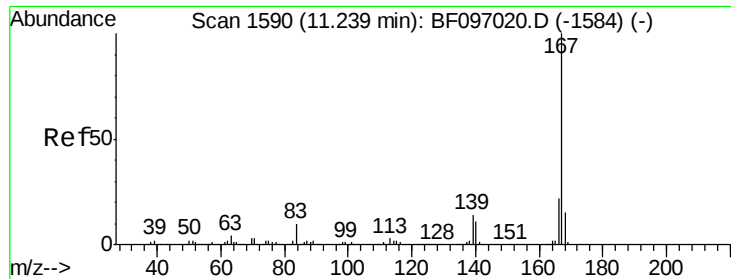
Tot Ion:178 Resp: 365243
Ion Ratio Lower Upper
178 100
176 18.8 16.2 24.4
179 15.1 12.6 19.0



#71
Anthracene
Concen: 6.69 ng
RT: 11.07 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

Tgt Ion:178 Resp: 100140
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.8
179 15.8 12.7 19.1

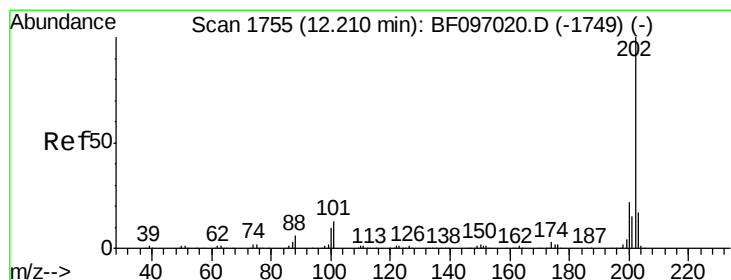
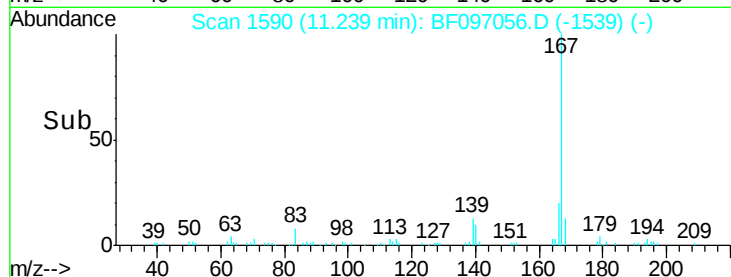
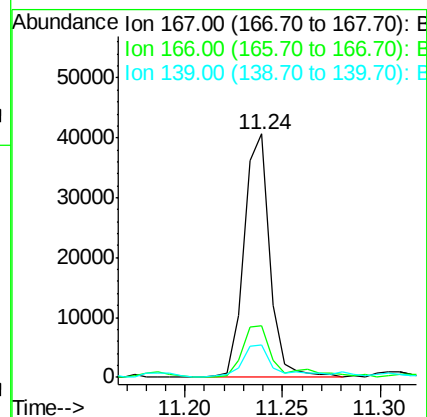
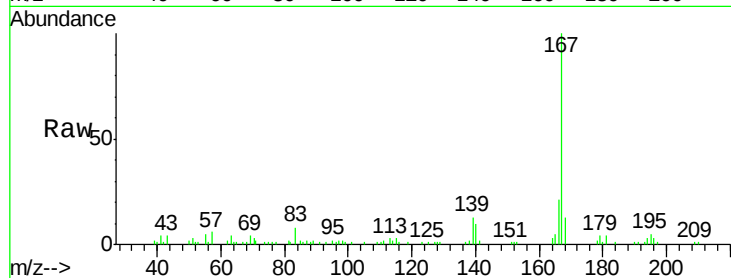




#72
 Carbazole
 Concen: 2.52 ng
 RT: 11.24 min Scan# 1590
 Delta R.T. -0.00 min
 Lab File: BF097056.D
 Acq: 26 Jul 2017 4:43

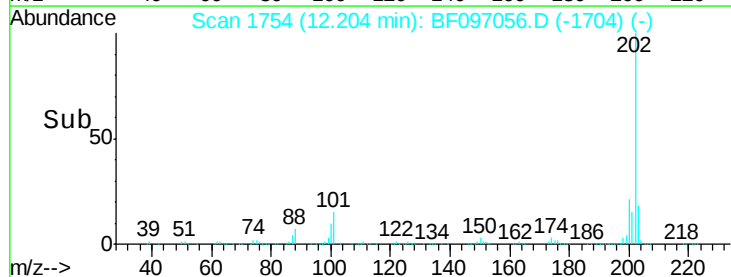
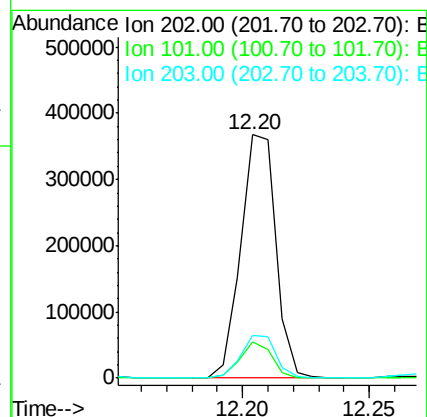
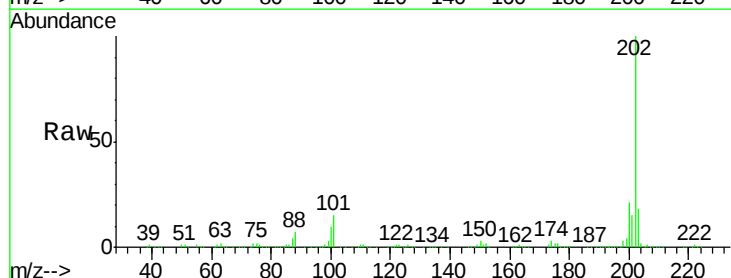
Instrument :
 BNA_F
 ClientSampled :

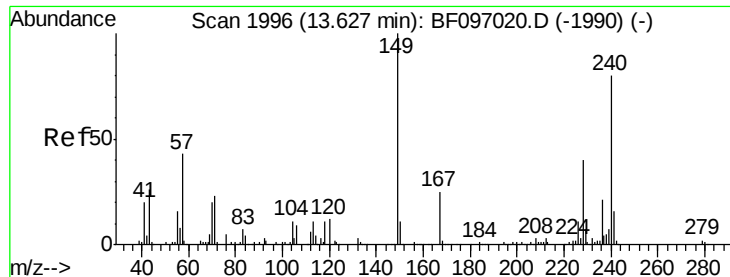
Tot Ion:167 Resp: 37150
 Ion Ratio Lower Upper
 167 100
 166 21.4 18.1 27.1
 139 13.4 11.7 17.5



#74
 Fluoranthene
 Concen: 24.64 ng
 RT: 12.20 min Scan# 1754
 Delta R.T. -0.01 min
 Lab File: BF097056.D
 Acq: 26 Jul 2017 4:43

Tgt Ion:202 Resp: 352592
 Ion Ratio Lower Upper
 202 100
 101 14.7 0.0 33.2
 203 17.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.63 min Scan# 1996

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA_F

ClientSampleId :

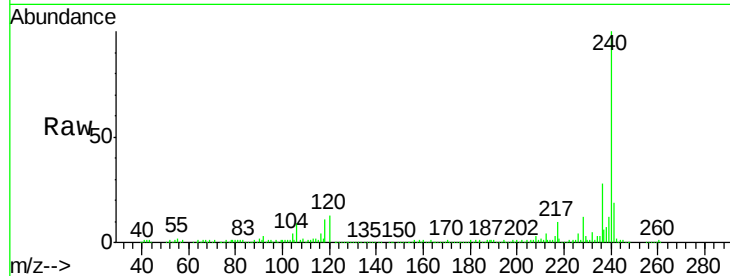
Tot Ion:240 Resp: 210657

Ion Ratio Lower Upper

240 100

120 12.8 5.8 8.8#

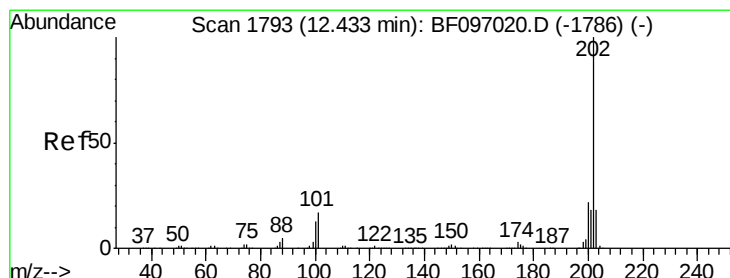
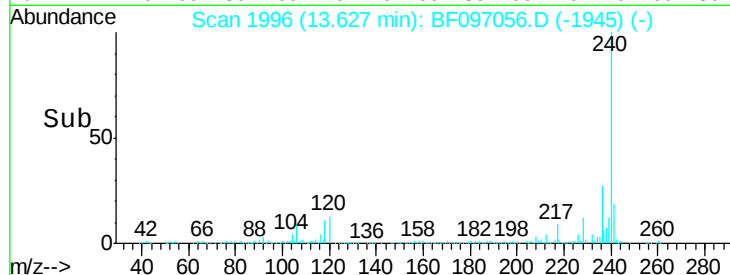
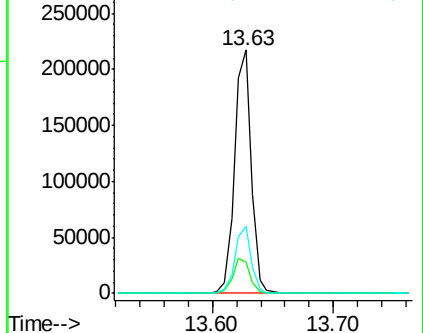
236 27.6 20.5 30.7



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

Pyrene

Concen: 19.90 ng

RT: 12.43 min Scan# 1793

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

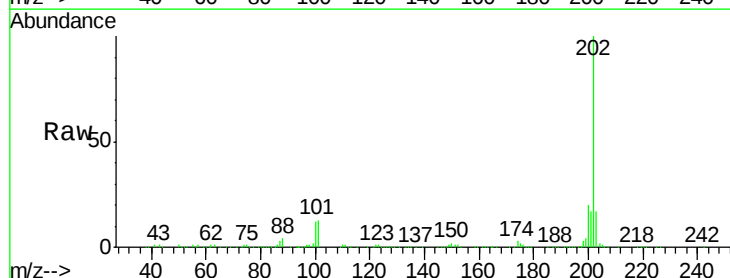
Tgt Ion:202 Resp: 343168

Ion Ratio Lower Upper

202 100

200 20.3 17.6 26.4

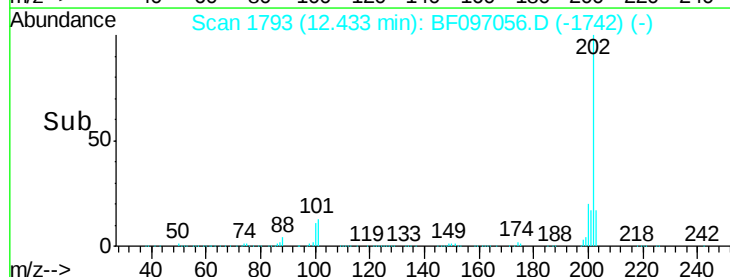
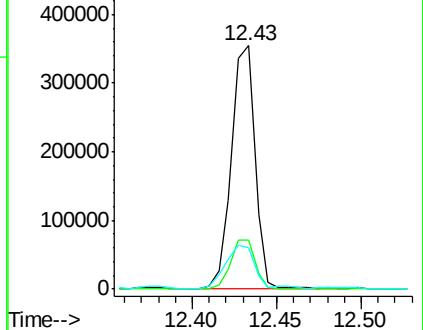
203 17.0 14.4 21.6

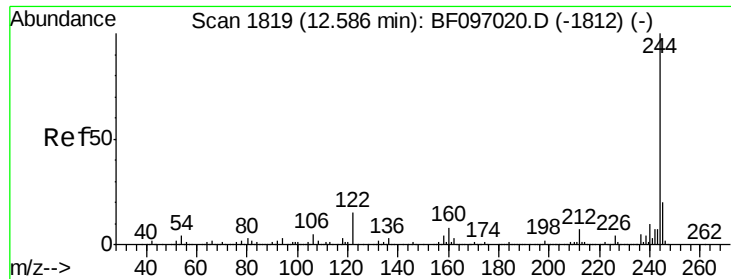


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 44.70 ng

RT: 12.59 min Scan# 1819

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA_F

ClientSampleId :

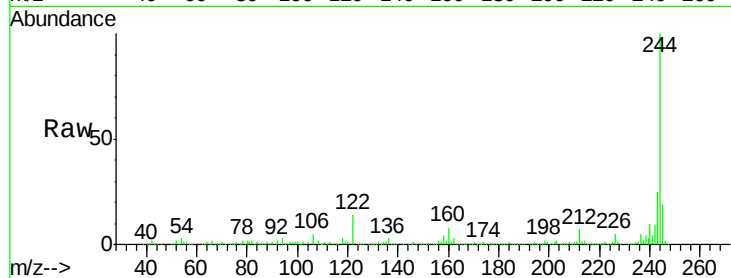
Tot Ion:244 Resp: 461836

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

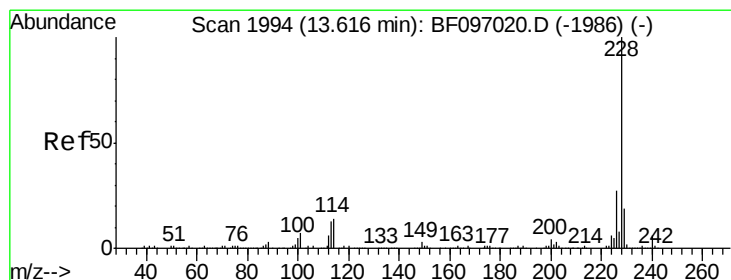
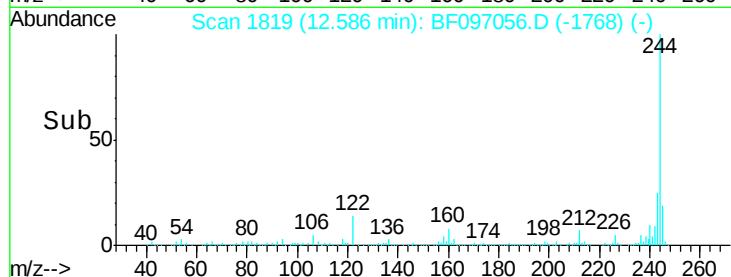
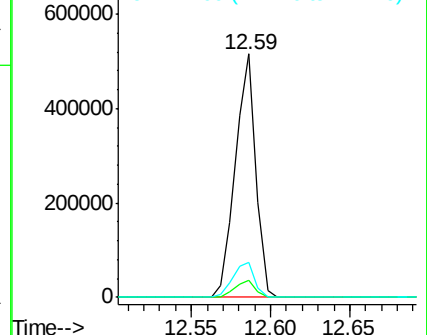
122 14.2 10.3 15.5



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: 12.76 ng

RT: 13.62 min Scan# 1994

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

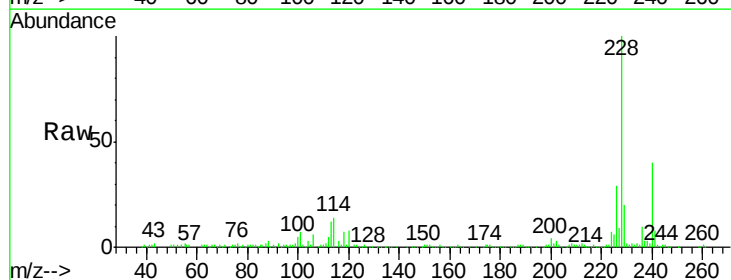
Tgt Ion:228 Resp: 173943

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

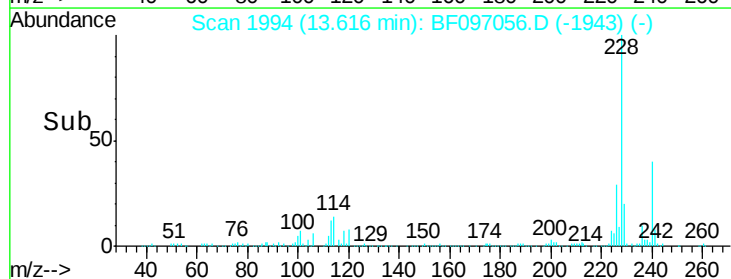
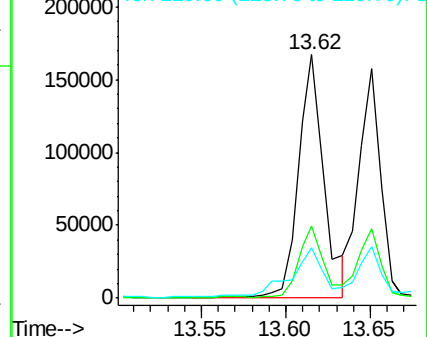
229 20.5 16.3 24.5

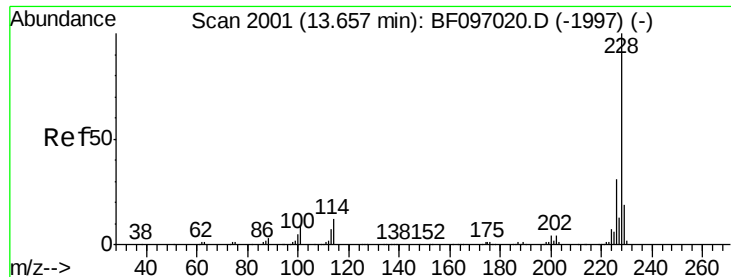


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 10.64 ng

RT: 13.65 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

Instrument :

BNA_F

ClientSampled :

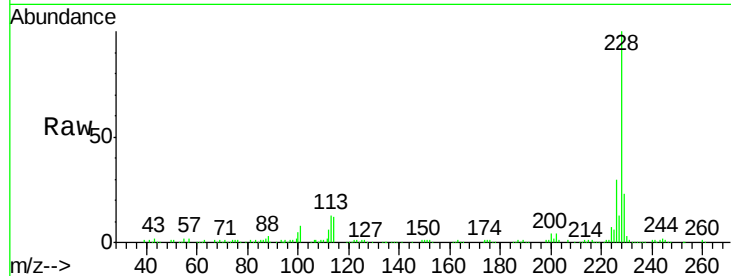
Tot Ion:228 Resp: 141582

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

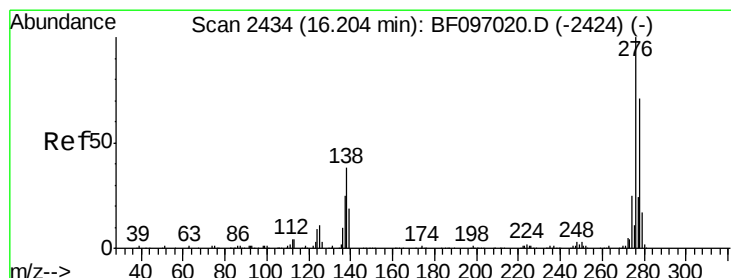
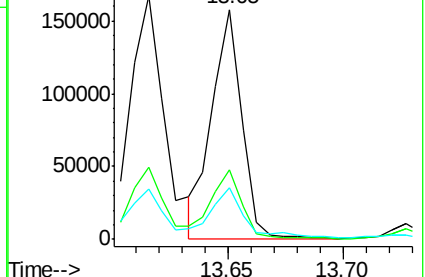
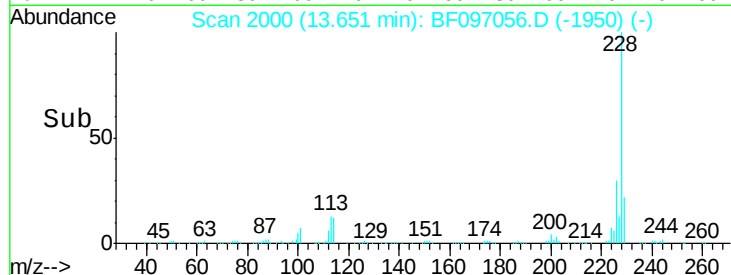
229 22.6 15.8 23.6



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: 3.45 ng

RT: 16.20 min Scan# 2434

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

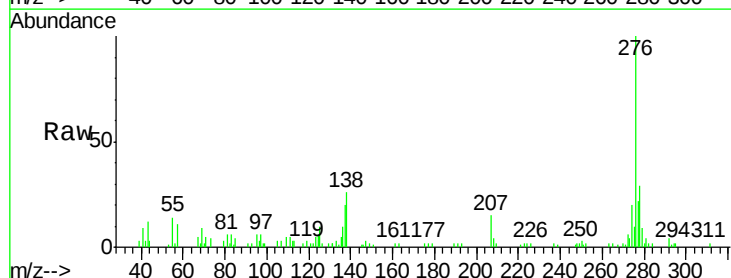
Tgt Ion:276 Resp: 39397

Ion Ratio Lower Upper

276 100

138 27.4 27.8 41.6#

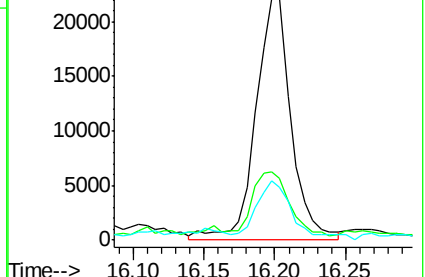
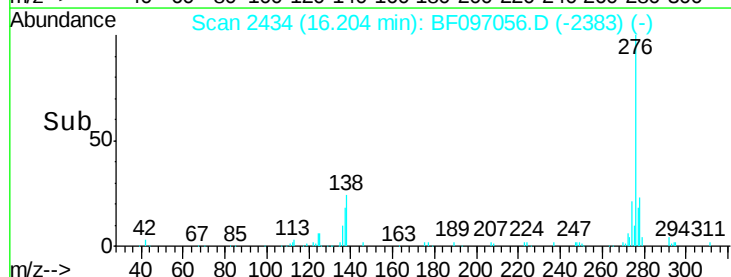
277 24.4 20.2 30.4

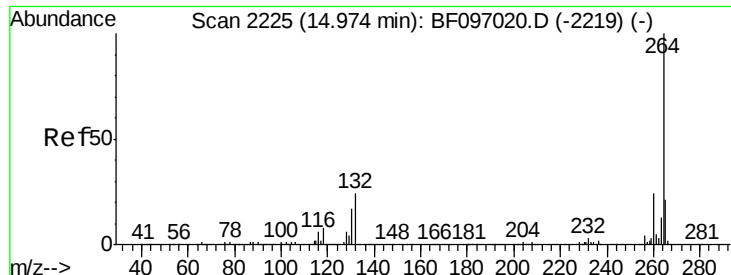


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

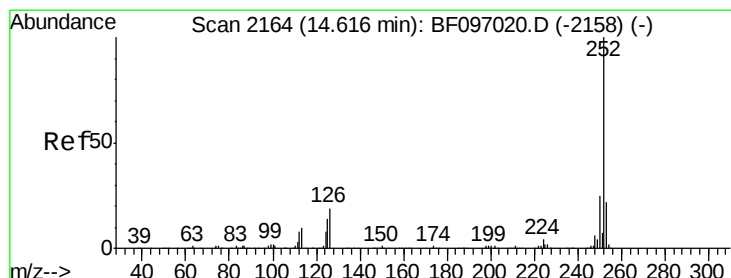
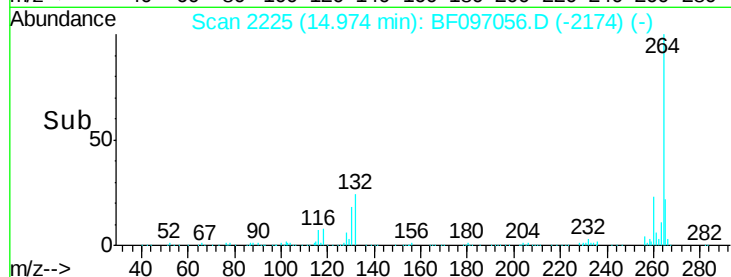
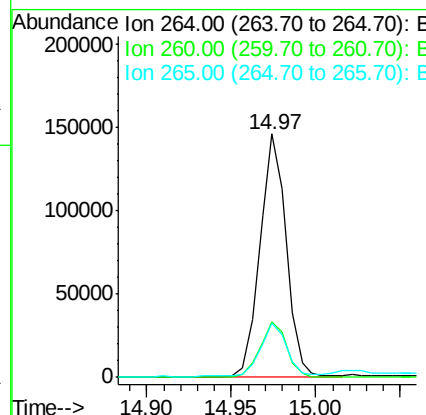
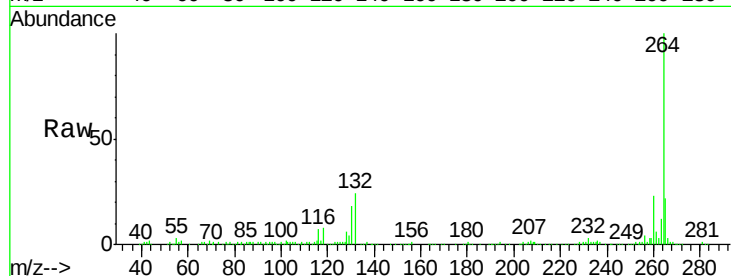




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.97 min Scan# 2225
Delta R.T. -0.00 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

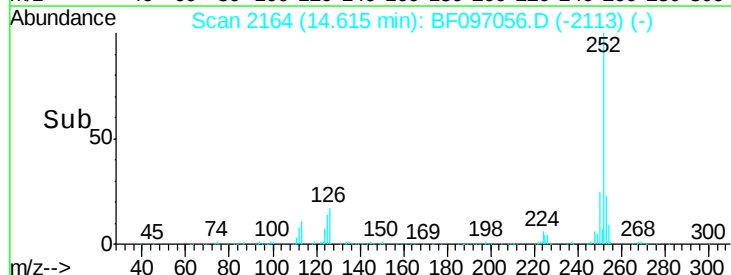
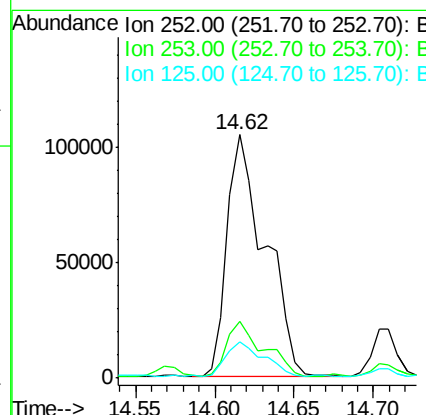
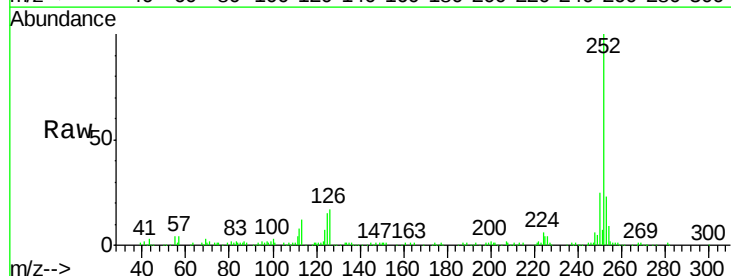
Instrument :
BNA_F
ClientSampleId :

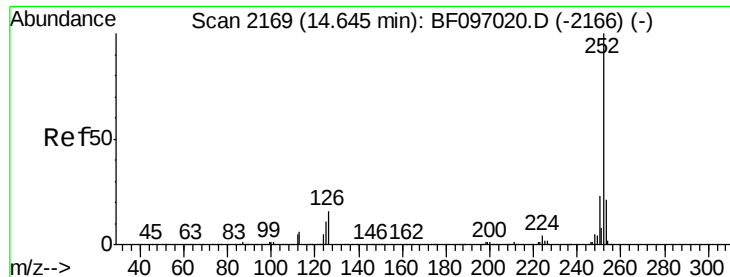
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	22.2	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 18.32 ng
RT: 14.62 min Scan# 2164
Delta R.T. -0.00 min
Lab File: BF097056.D
Acq: 26 Jul 2017 4:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	15.0	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 19.22 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.03 min

Lab File: BF097056.D

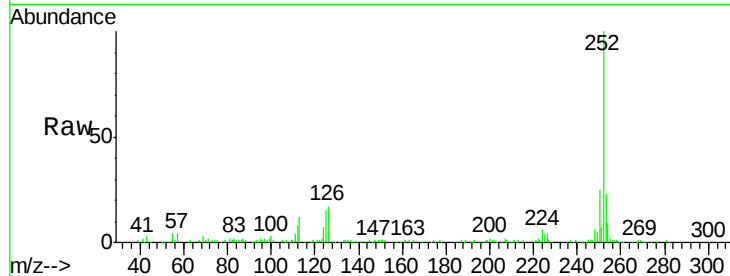
Acq: 26 Jul 2017 4:43

Instrument :

BNA_F

ClientSampleId :

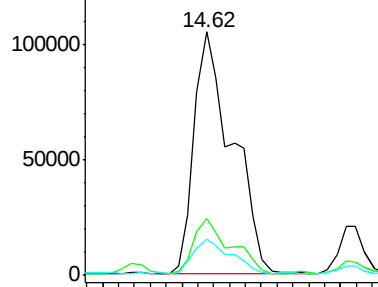
Tot Ion:252	Resp:	176020
Ion Ratio	Lower	Upper
252	100	
253	23.3	18.4 27.6
125	15.0	13.1 19.7



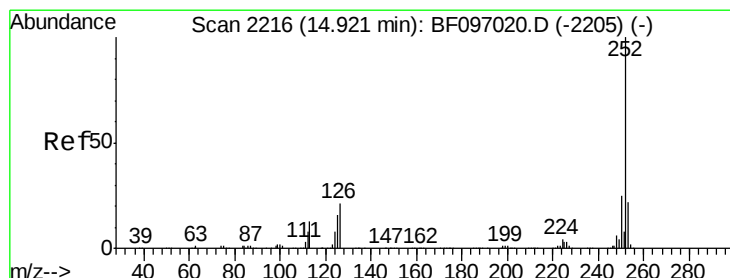
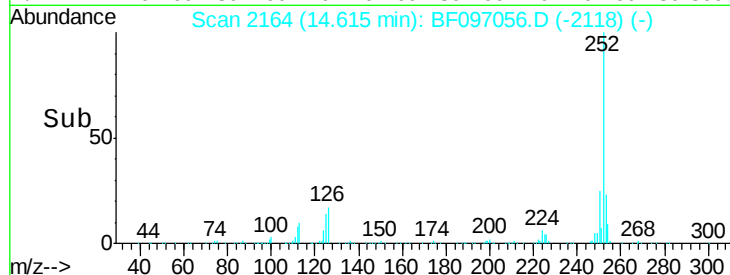
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#89

Benzo(a)pyrene

Concen: 10.75 ng

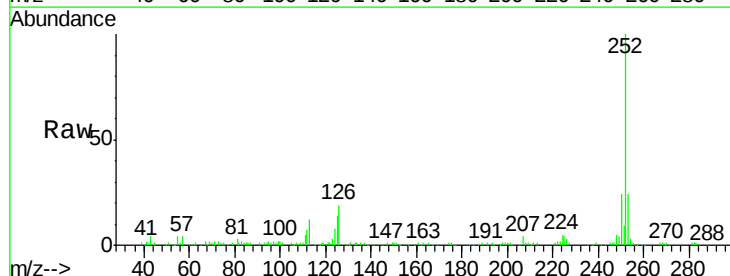
RT: 14.92 min Scan# 2216

Delta R.T. -0.00 min

Lab File: BF097056.D

Acq: 26 Jul 2017 4:43

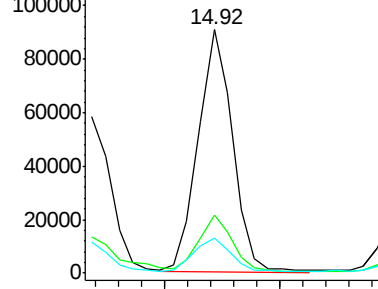
Tgt Ion:252	Resp:	94515
Ion Ratio	Lower	Upper
252	100	
253	23.7	17.5 26.3
125	14.4	11.0 16.4



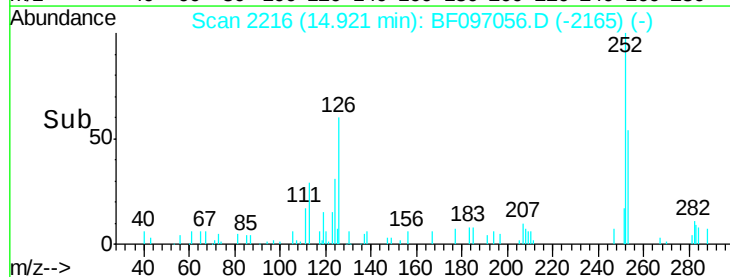
Abundance Ion 252.00 (251.70 to 252.70): E

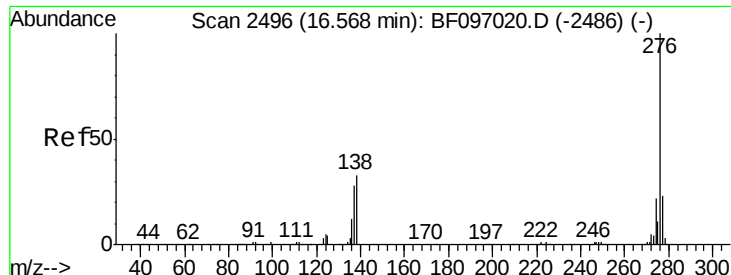
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#91
 Benzo(a,h,i)perylene
 Concen: 4.78 ng
 RT: 16.56 min Scan# 2495
 Delta R.T. -0.01 min
 Lab File: BF097056.D
 Acq: 26 Jul 2017 4:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.3	18.6	28.0
138	29.7	25.4	38.0

