

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080517\
 Data File : BF097401.D
 Acq On : 5 Aug 2017 17:04
 Operator : SJ/JU
 Sample : I4610-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 06 01:08:58 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.42	152	97415	20.00	ng	-0.08
21) Naphthalene-d8	7.70	136	410153	20.00	ng	-0.08
38) Acenaphthene-d10	9.45	164	172590	20.00	ng	-0.09
63) Phenanthrene-d10	10.92	188	207610	20.00	ng	-0.08
75) Chrysene-d12	13.54	240	192141	20.00	ng	-0.08
86) Perylene-d12	14.88	264	146806	20.00	ng	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.02	112	599374	92.75	ng	-0.08
7) Phenol-d6	6.10	99	800354	108.49	ng	-0.07
23) Nitrobenzene-d5	7.00	82	415811	59.47	ng	-0.08
41) 2,4,6-Tribromophenol	10.24	330	109386	80.22	ng	-0.08
44) 2-Fluorobiphenyl	8.79	172	672556	66.13	ng	-0.08
78) Terphenyl-d14	12.50	244	403384	42.80	ng	-0.08

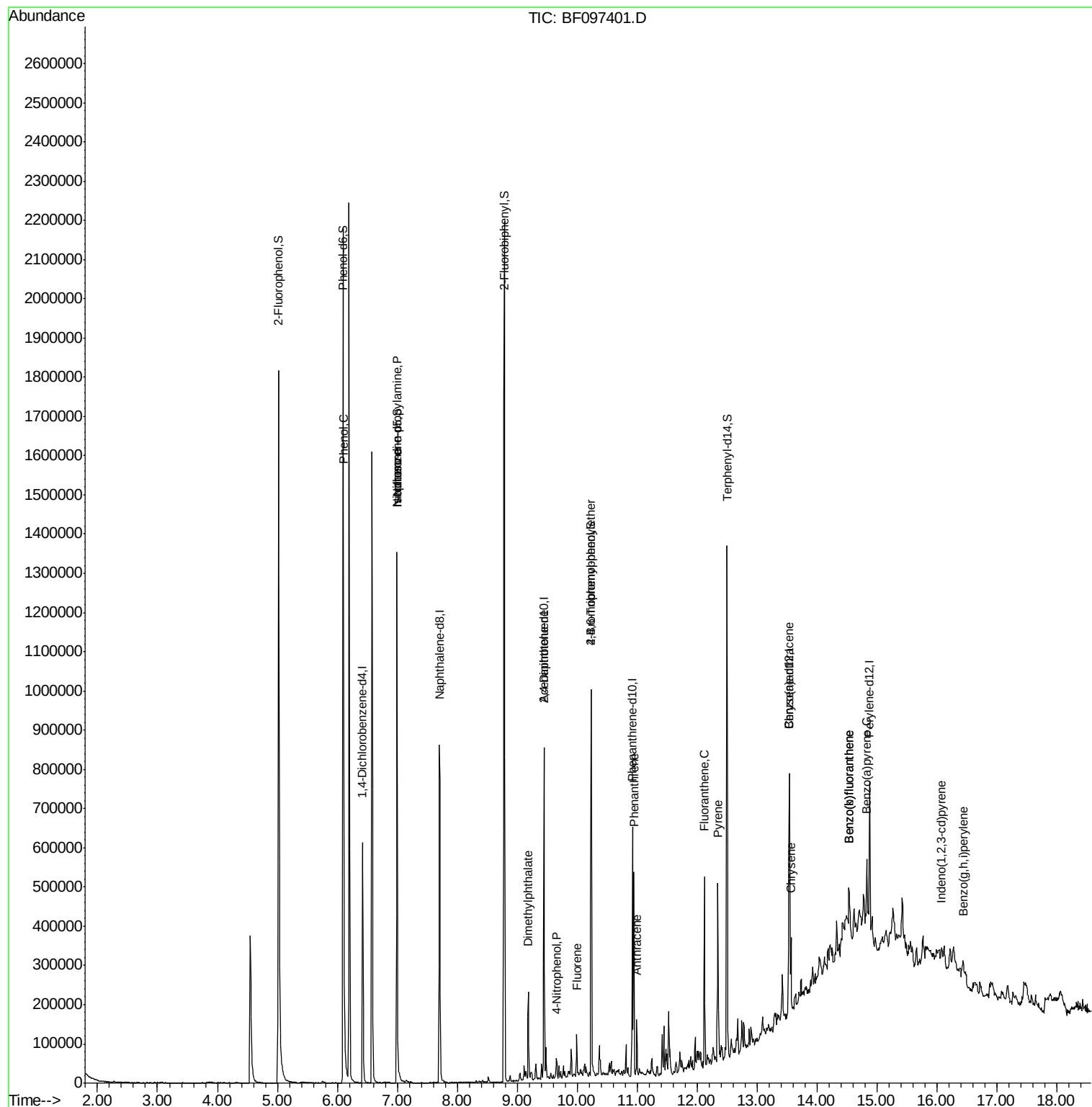
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.11	94	21079	2.41	ng	# 74
19) n-Nitroso-di-n-propylamine	7.00	70	55256	11.38	ng	# 86
25) Isophorone	7.00	82	415809	30.37	ng	# 67
49) Dimethylphthalate	9.19	163	81397	6.21	ng	100
55) 4-Nitrophenol	9.66	139	5100	2.49	ng	# 29
56) 2,4-Dinitrotoluene	9.45	165	21826	6.83	ng	# 34
57) Fluorene	9.99	166	29520	3.01	ng	97
66) 4-Bromophenyl-phenylether	10.23	248	6993	3.38	ng	# 1
70) Phenanthrene	10.95	178	180076	16.19	ng	97
71) Anthracene	11.00	178	47045	4.13	ng	98
74) Fluoranthene	12.12	202	194854	17.88	ng	99
77) Pyrene	12.35	202	184575	11.73	ng	100
80) Benzo(a)anthracene	13.53	228	82309	6.62	ng	98
82) Chrysene	13.57	228	68822	5.67	ng	94
85) Indeno(1,2,3-cd)pyrene	16.08	276	21896	2.10	ng	98
87) Benzo(b)fluoranthene	14.53	252	84484	9.57	ng	# 92
88) Benzo(k)fluoranthene	14.53	252	84484	10.05	ng	96
89) Benzo(a)pyrene	14.83	252	52187	6.46	ng	# 91
91) Benzo(a,h,i)perylene	16.44	276	21628	3.11	ng	# 83

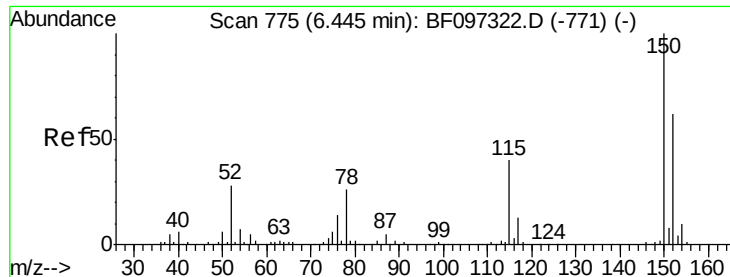
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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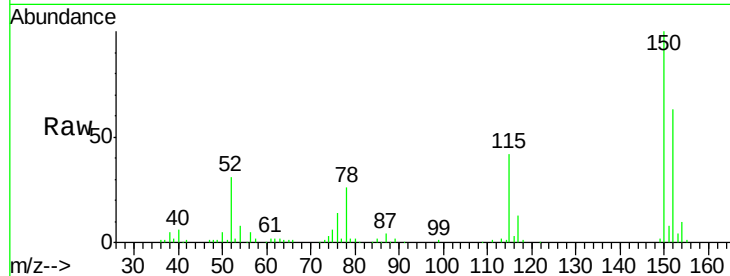


#1

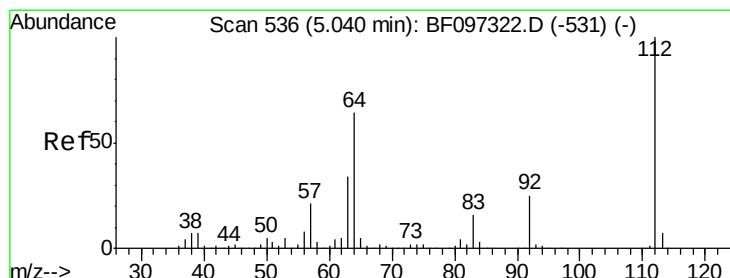
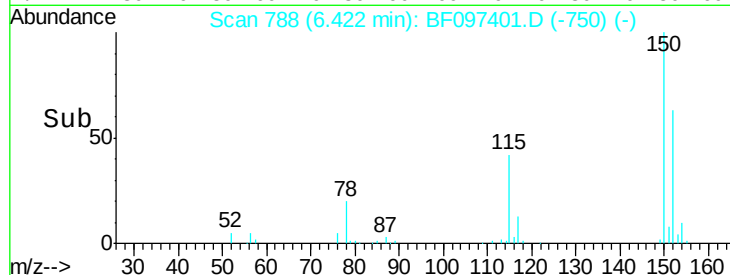
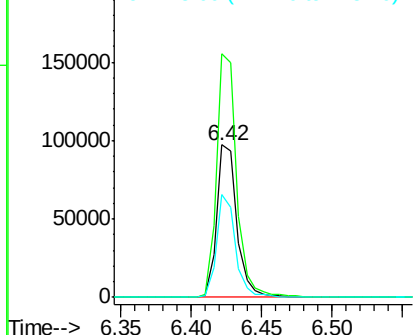
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.42 min Scan# 788
Delta R.T. -0.08 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 97415
Ion Ratio Lower Upper
152 100
150 159.9 126.2 189.2
115 67.9 52.2 78.2



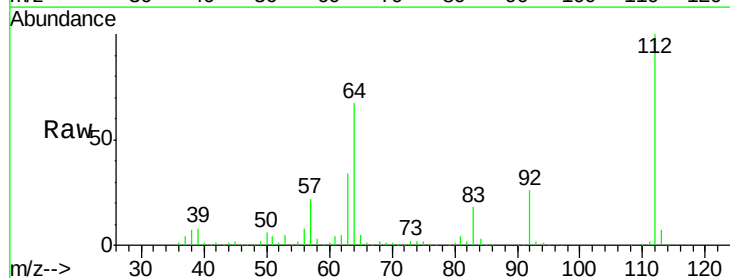
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



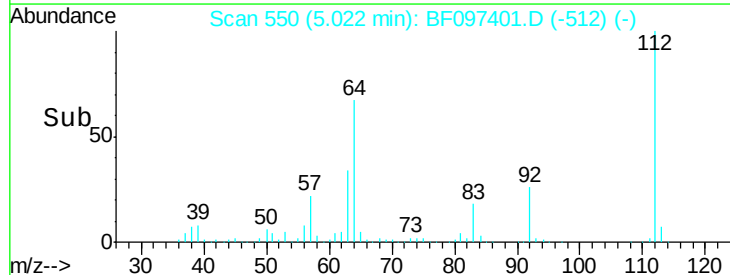
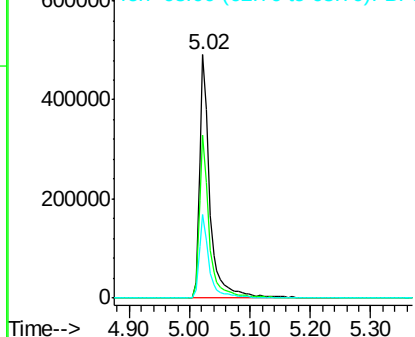
#5

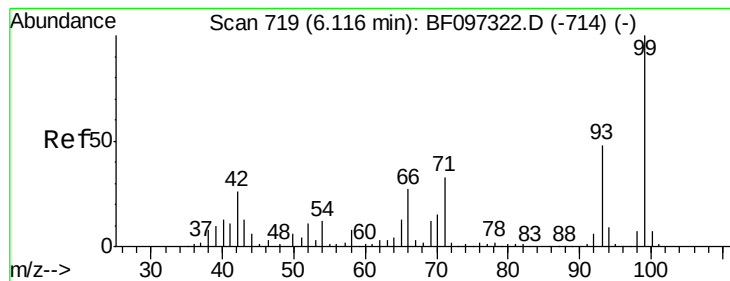
2-Fluorophenol
Concen: 92.75 ng
RT: 5.02 min Scan# 550
Delta R.T. -0.08 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

Tgt Ion:112 Resp: 599374
Ion Ratio Lower Upper
112 100
64 66.8 46.0 69.0
63 34.2 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: 108.49 ng

RT: 6.10 min Scan# 733

Delta R.T. -0.07 min

Lab File: BF097401.D

Acq: 5 Aug 2017 17:04

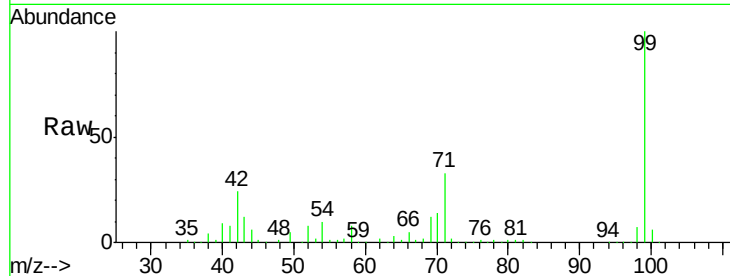
Instrument :

BNA_F

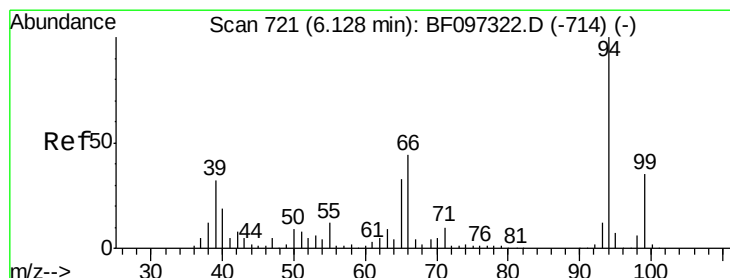
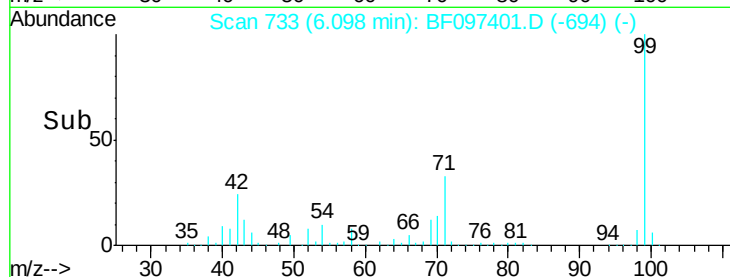
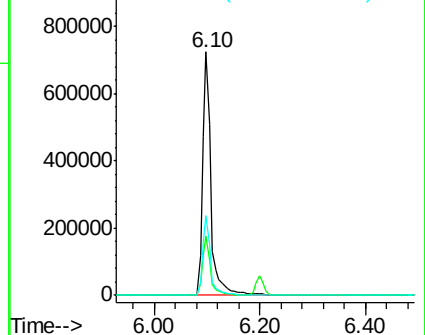
ClientSampled :

Tot Ion: 99 Resp: 800354

Ion	Ratio	Lower	Upper
99	100		
42	24.2	13.5	20.3#
71	32.8	24.5	36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.41 ng

RT: 6.11 min Scan# 735

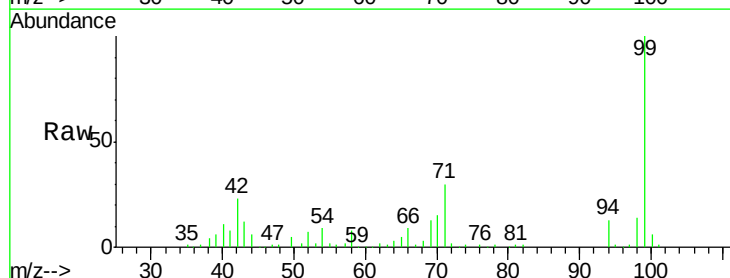
Delta R.T. -0.07 min

Lab File: BF097401.D

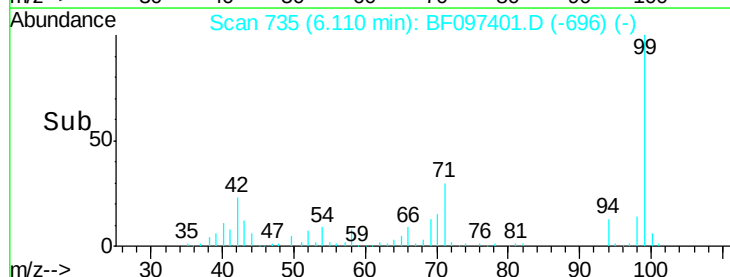
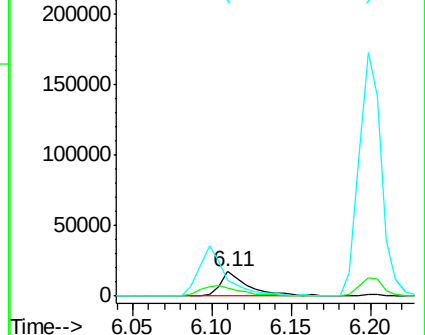
Acq: 5 Aug 2017 17:04

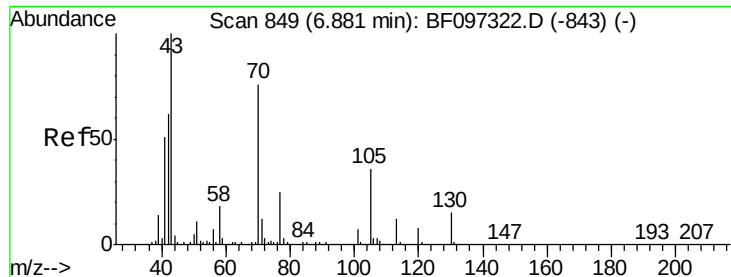
Tgt Ion: 94 Resp: 21079

Ion	Ratio	Lower	Upper
94	100		
65	35.0	9.9	49.9
66	67.2	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

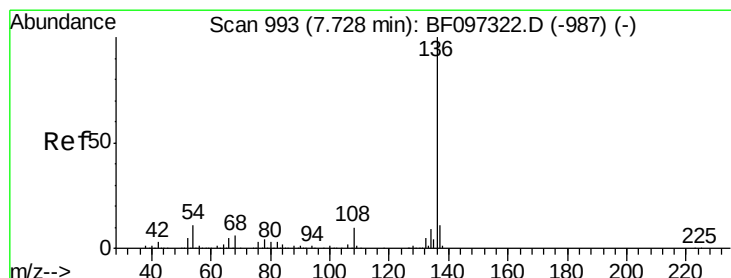
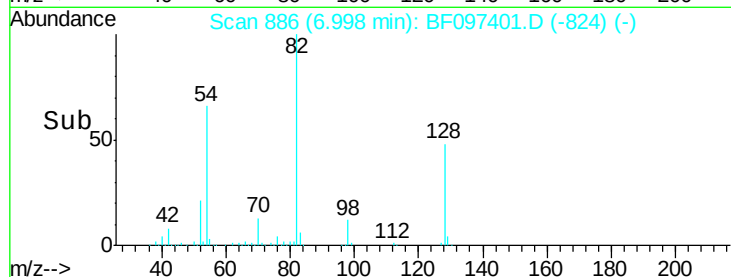
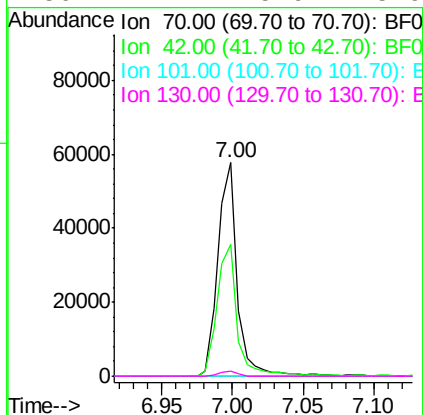
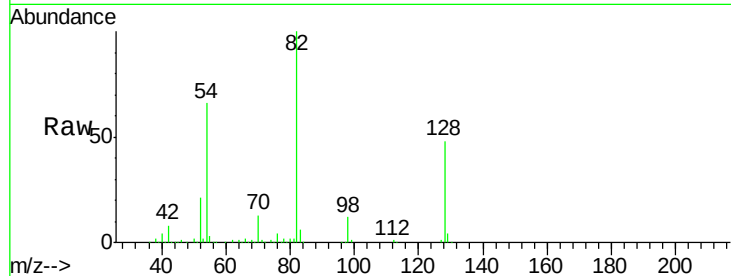




#19
n-Nitroso-di-n-propylamine
Concen: 11.38 ng
RT: 7.00 min Scan# 886
Delta R.T. 0.06 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

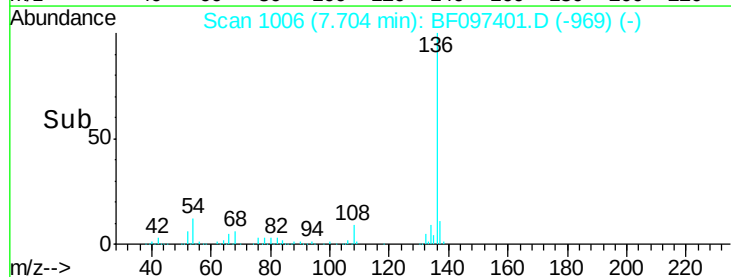
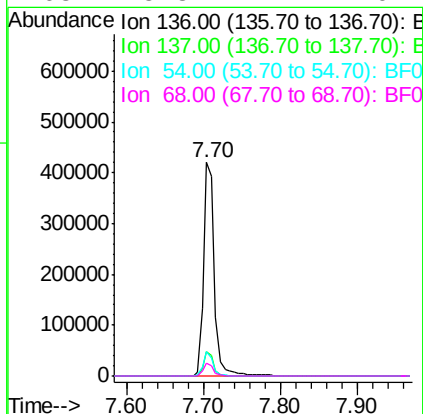
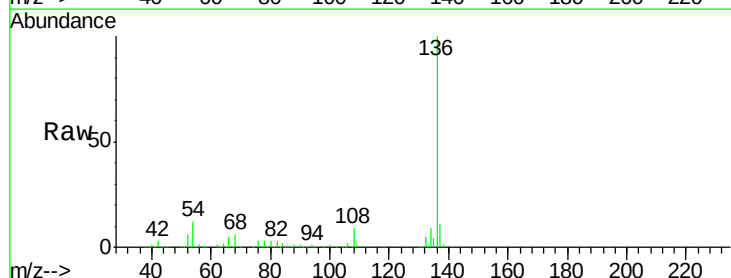
Instrument :
BNA_F
ClientSampled :

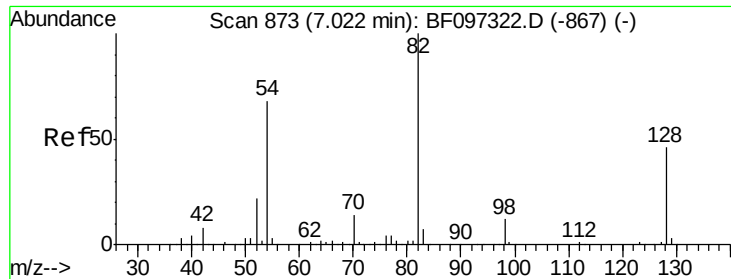
Tot Ion: 70 Resp: 55256
Ion Ratio Lower Upper
70 100
42 61.7 47.2 70.8
101 0.0 7.2 10.8#
130 2.1 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.70 min Scan# 1006
Delta R.T. -0.08 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

Tgt Ion: 136 Resp: 410153
Ion Ratio Lower Upper
136 100
137 11.2 8.5 12.7
54 11.6 4.9 7.3#
68 5.8 4.1 6.1

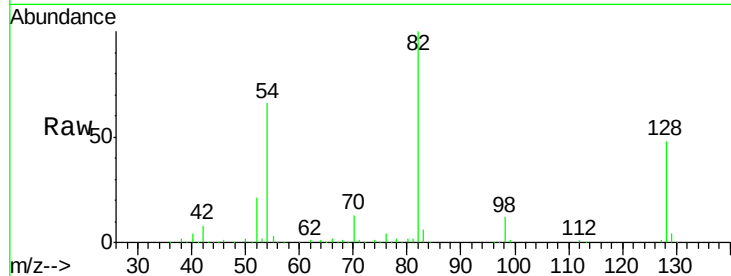




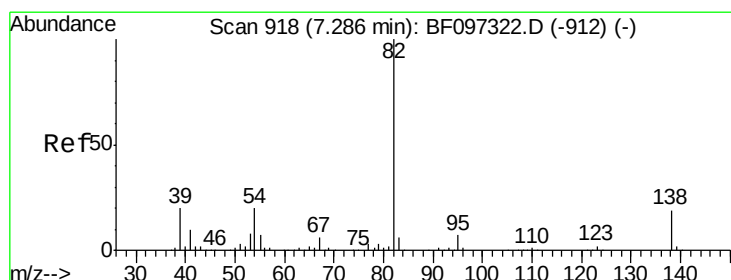
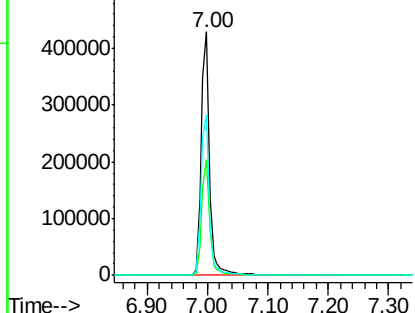
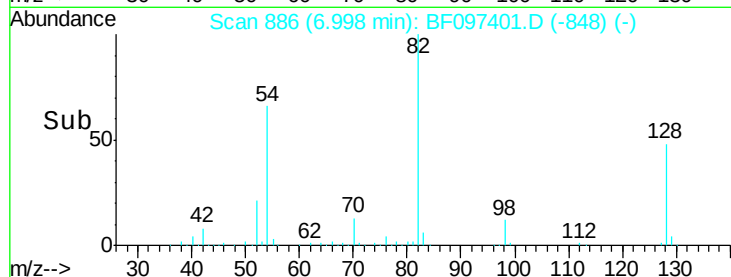
#23
Nitrobenzene-d5
Concen: 59.47 ng
RT: 7.00 min Scan# 886
Delta R.T. -0.08 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 415811
Ion Ratio Lower Upper
82 100
128 47.6 34.0 51.0
54 65.6 42.2 63.2#

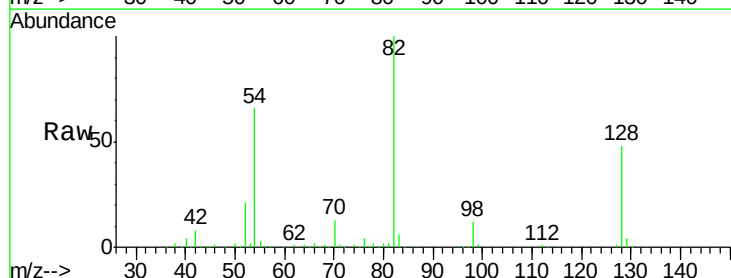


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

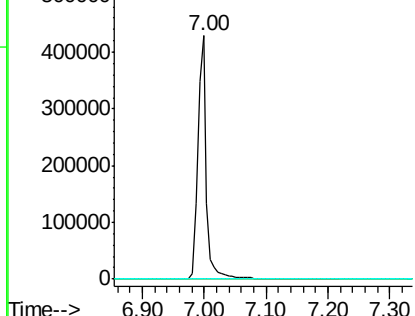
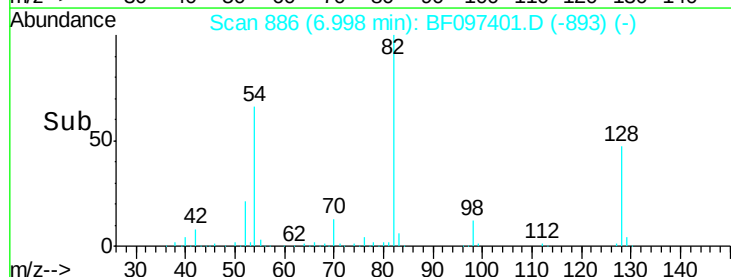


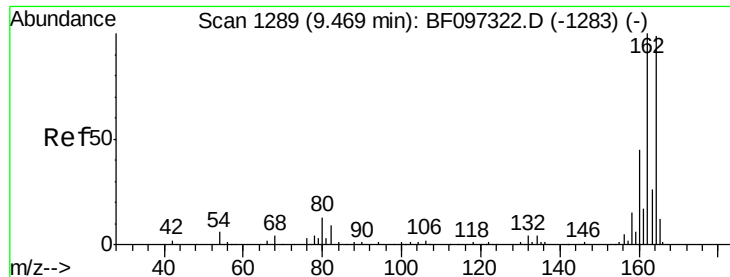
#25
Isophorone
Concen: 30.37 ng
RT: 7.00 min Scan# 886
Delta R.T. -0.34 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

Tgt Ion: 82 Resp: 415809
Ion Ratio Lower Upper
82 100
95 0.0 5.3 7.9#
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E

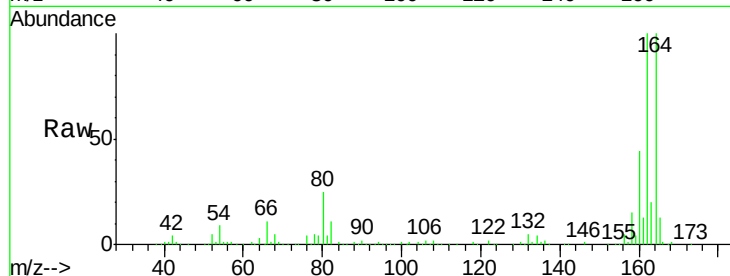




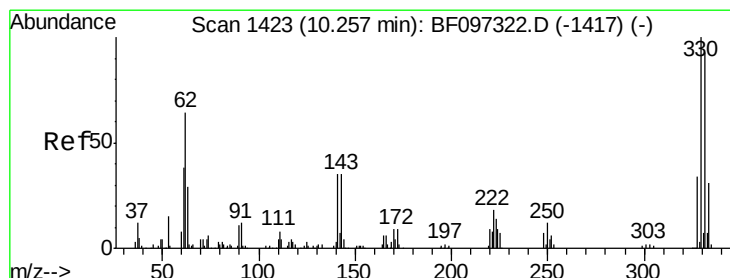
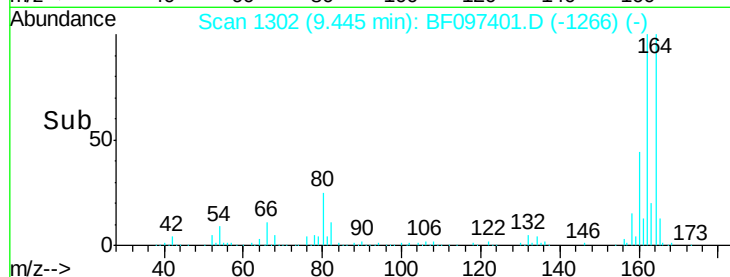
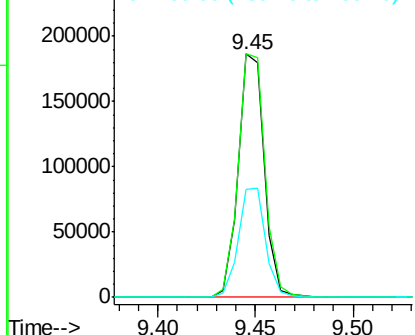
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.45 min Scan# 1302
 Delta R.T. -0.09 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 172590
 Ion Ratio Lower Upper
 164 100
 162 99.9 82.6 123.8
 160 44.3 36.2 54.2

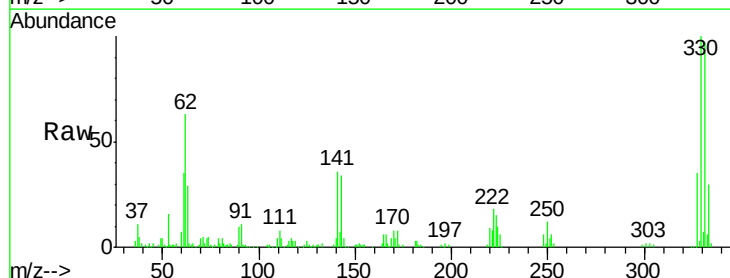


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

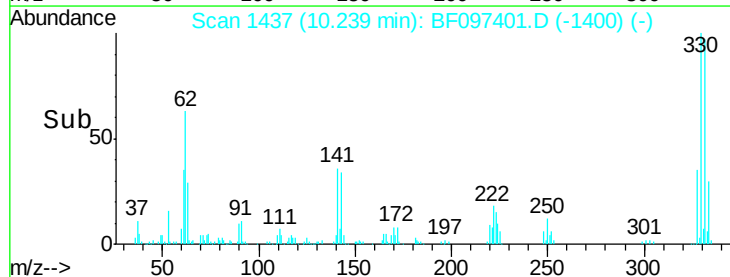
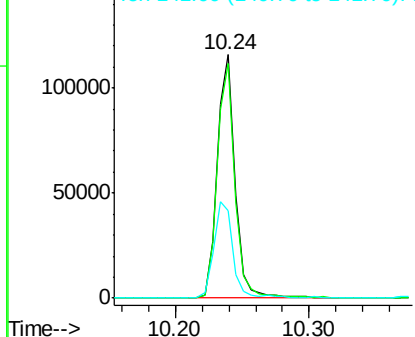


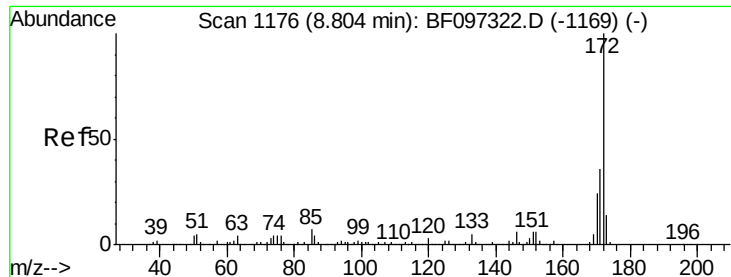
#41
 2,4,6-Tribromophenol
 Concen: 80.22 ng
 RT: 10.24 min Scan# 1437
 Delta R.T. -0.08 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Tgt Ion:330 Resp: 109386
 Ion Ratio Lower Upper
 330 100
 332 96.6 76.6 115.0
 141 42.7 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

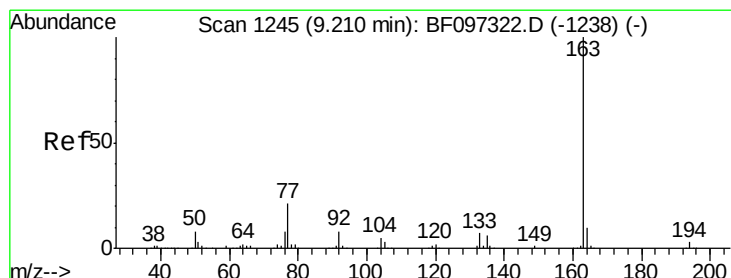
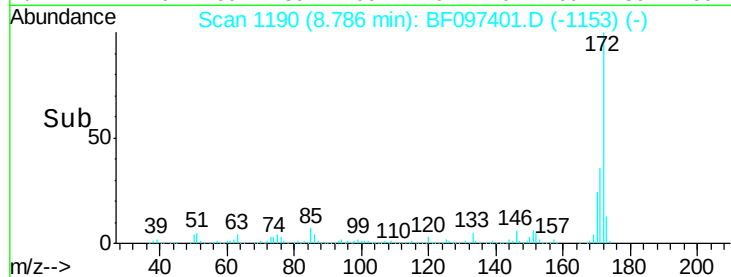
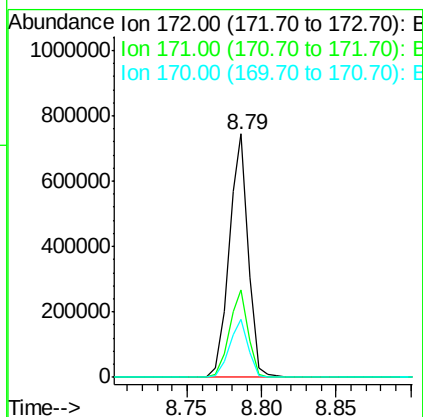
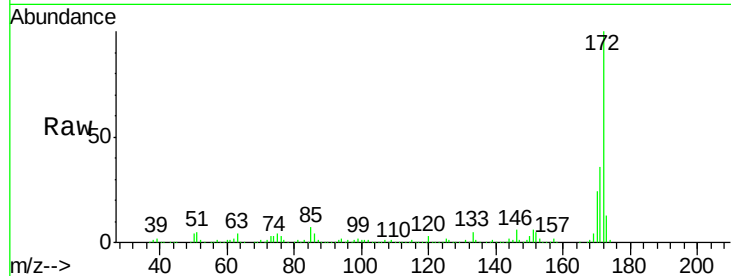




#44
2-Fluorobiphenyl
Concen: 66.13 ng
RT: 8.79 min Scan# 1190
Delta R.T. -0.08 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

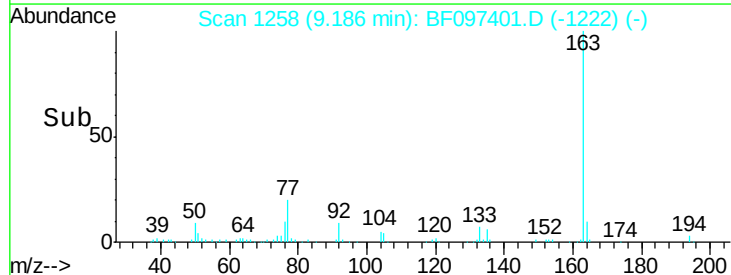
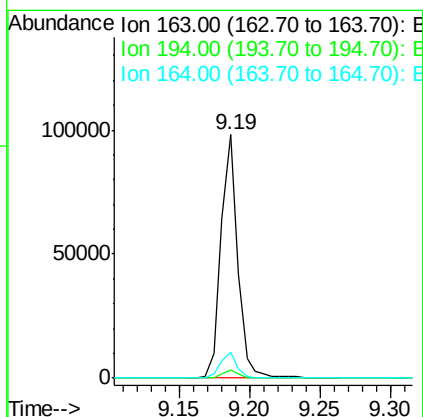
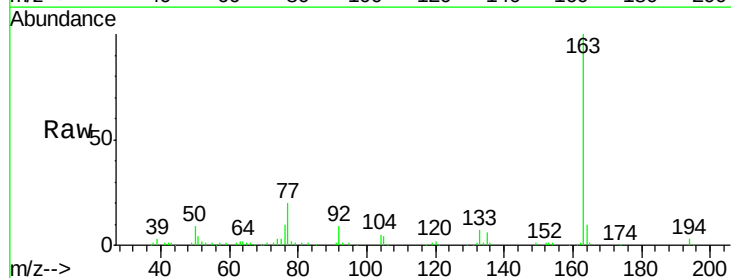
Instrument :
BNA_F
ClientSampled :

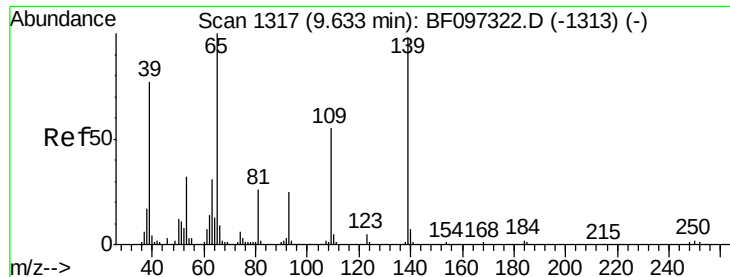
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.6	44.4
170	23.8	19.8	29.8



#49
Dimethylphthalate
Concen: 6.21 ng
RT: 9.19 min Scan# 1258
Delta R.T. -0.09 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.6	4.0
164	10.4	8.4	12.6





#55

4-Nitrophenol

Concen: 2.49 ng

RT: 9.66 min Scan# 1338

Delta R.T. -0.02 min

Lab File: BF097401.D

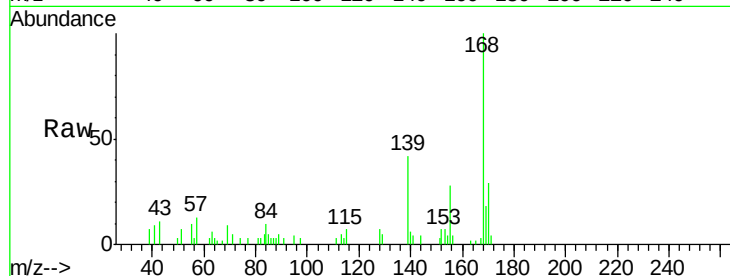
Acq: 5 Aug 2017 17:04

Instrument :

BNA_F

ClientSampled :

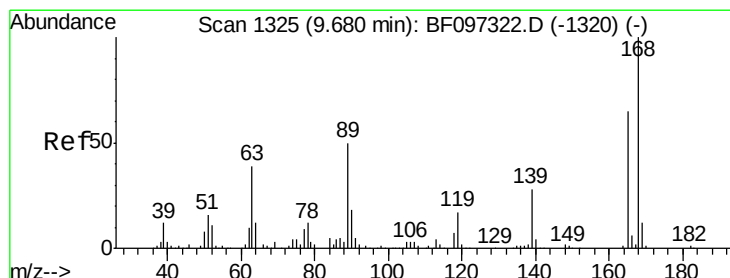
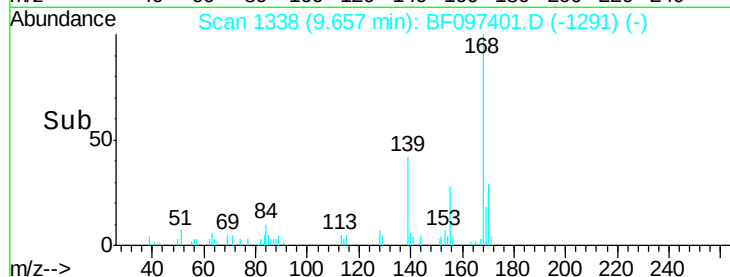
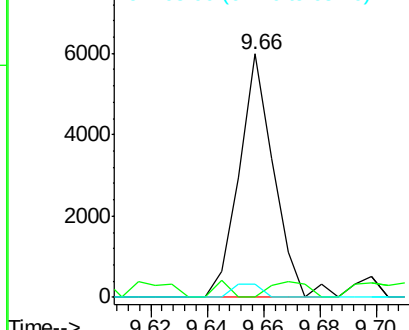
Tot Ion:139	Resp:	5100
Ion Ratio	Lower	Upper
139	100	
109	0.0	34.1 74.1#
65	5.3	31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 6.83 ng

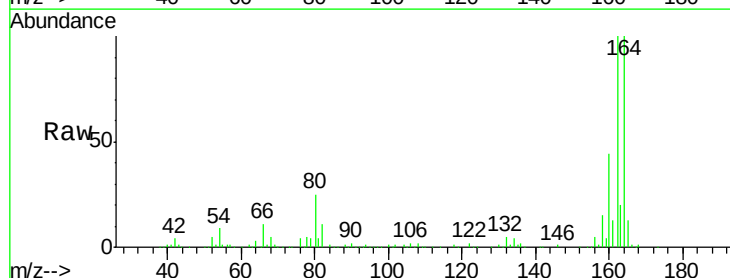
RT: 9.45 min Scan# 1302

Delta R.T. -0.29 min

Lab File: BF097401.D

Acq: 5 Aug 2017 17:04

Tgt Ion:165	Resp:	21826
Ion Ratio	Lower	Upper
165	100	
63	1.9	25.4 38.0#
89	1.7	46.4 69.6#
182	0.0	1.8 2.6#

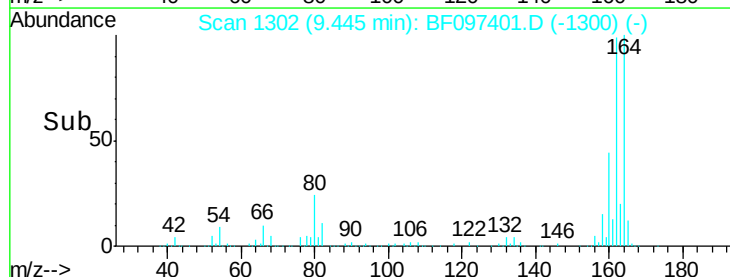
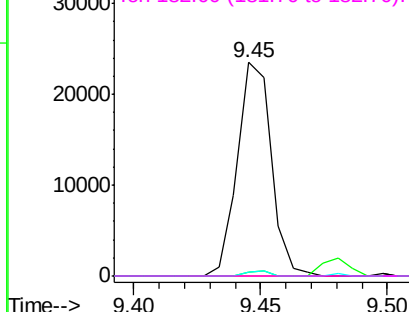


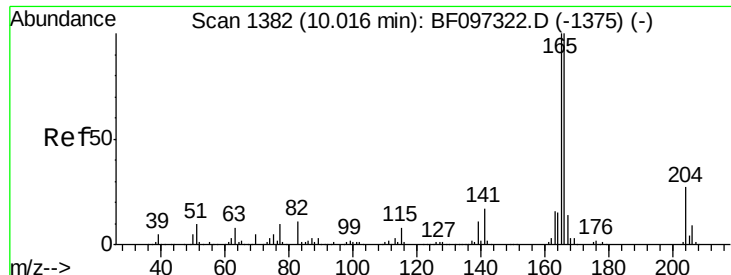
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

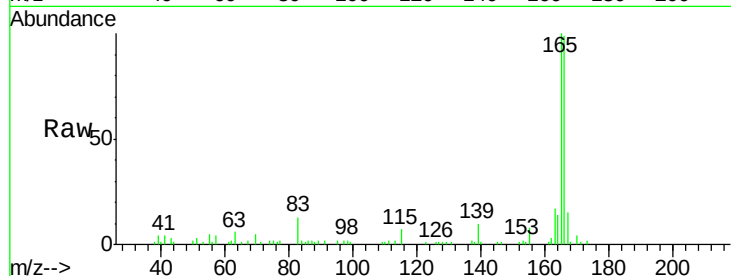




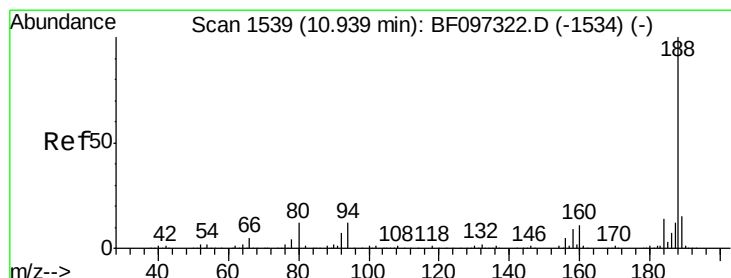
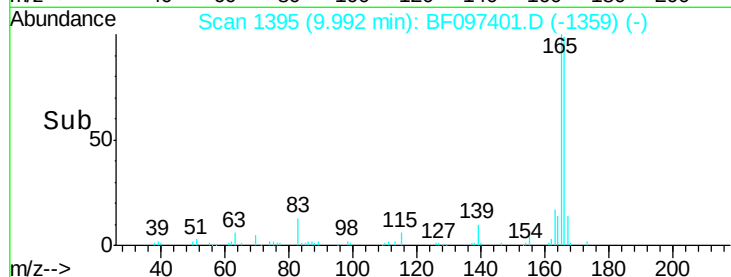
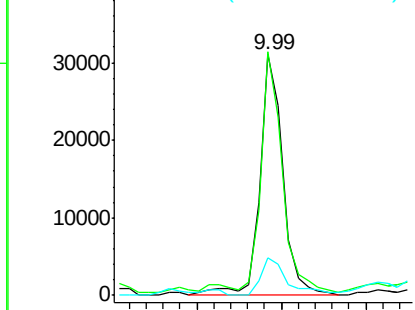
#57
 Fluorene
 Concen: 3.01 ng
 RT: 9.99 min Scan# 1395
 Delta R.T. -0.09 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.2	78.8	118.2
167	15.5	10.6	16.0

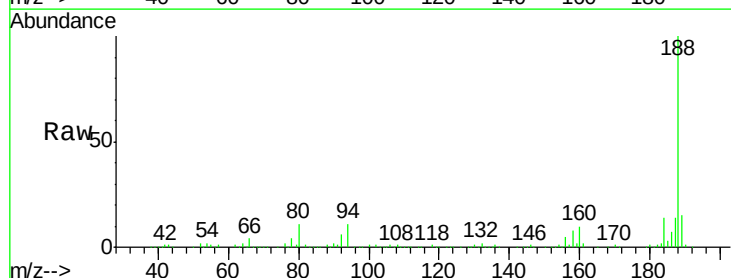


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

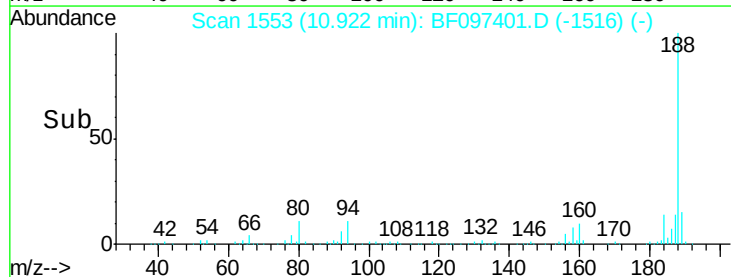
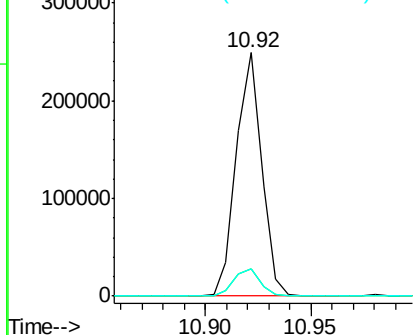


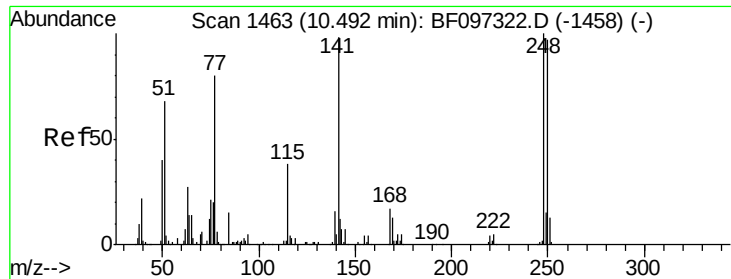
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.92 min Scan# 1553
 Delta R.T. -0.08 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.0	9.4	14.2
80	11.2	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

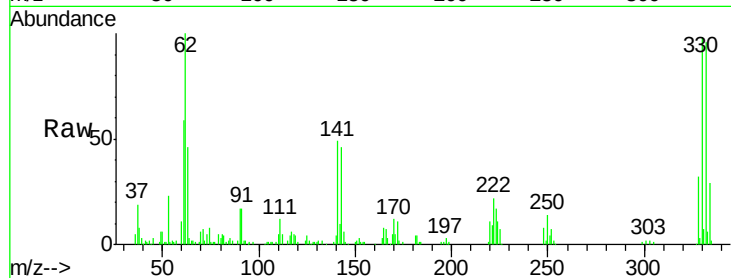




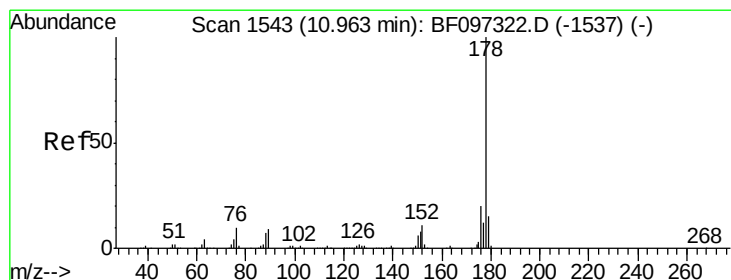
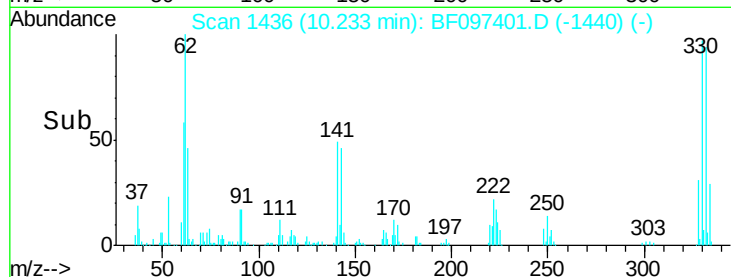
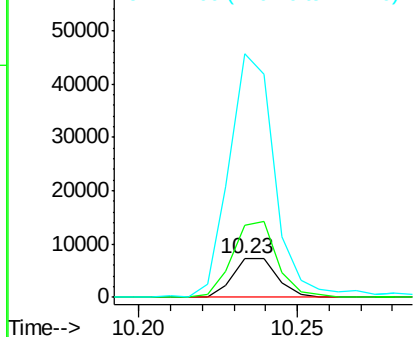
#66
 4-Bromophenyl-phenylether
 Concen: 3.38 ng
 RT: 10.23 min Scan# 1436
 Delta R.T. -0.32 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 6993
 Ion Ratio Lower Upper
 248 100
 250 186.5 76.8 115.2#
 141 627.9 68.6 103.0#

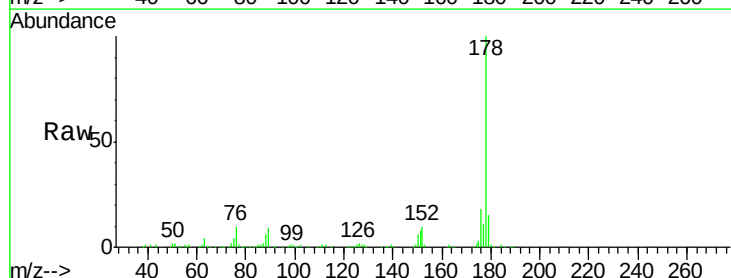


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

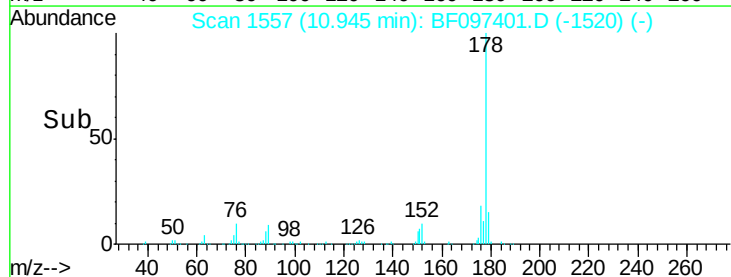
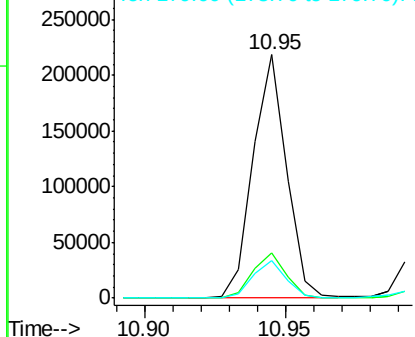


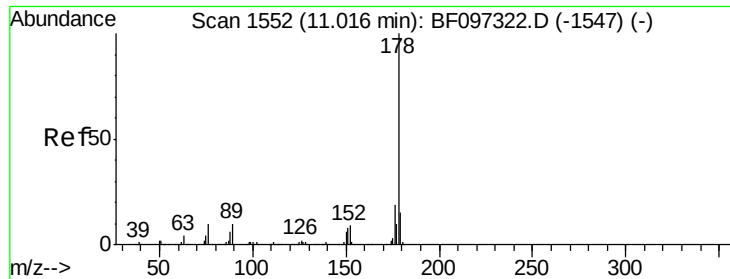
#70
 Phenanthrene
 Concen: 16.19 ng
 RT: 10.95 min Scan# 1557
 Delta R.T. -0.08 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Tgt Ion:178 Resp: 180076
 Ion Ratio Lower Upper
 178 100
 176 18.4 16.2 24.4
 179 15.2 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

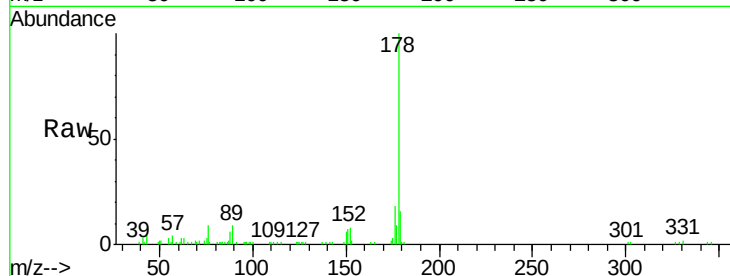




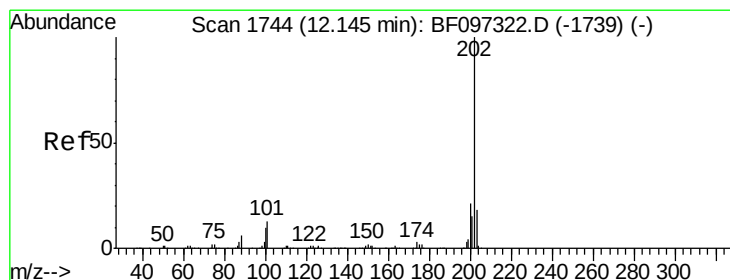
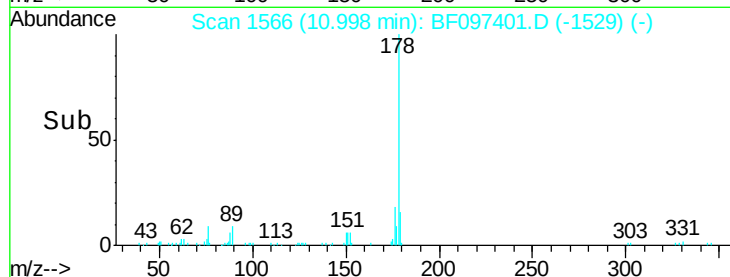
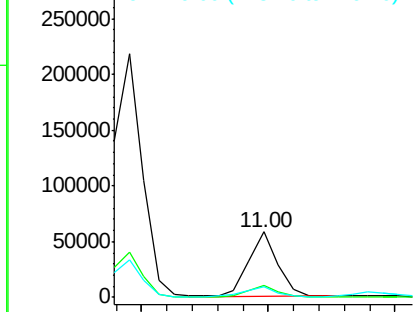
#71
 Anthracene
 Concen: 4.13 ng
 RT: 11.00 min Scan# 1566
 Delta R.T. -0.08 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.8	23.8
179	15.9	12.7	19.1

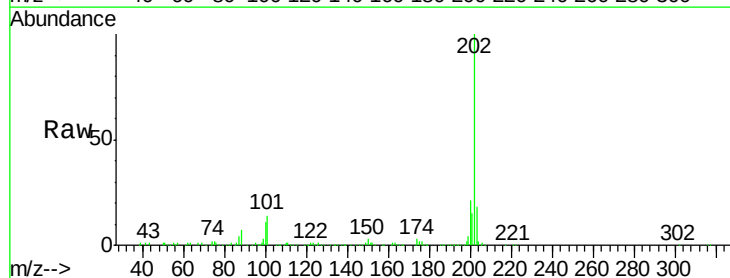


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

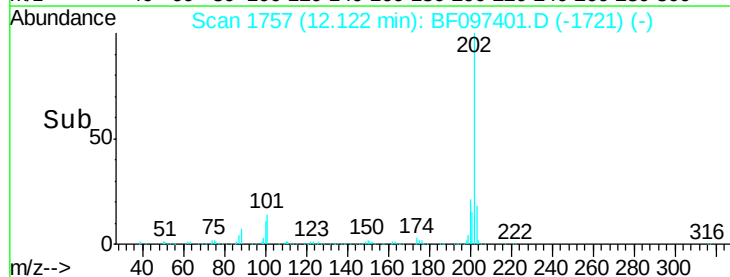
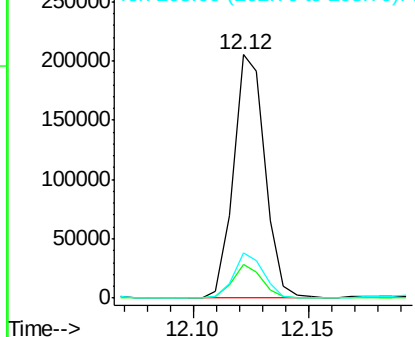


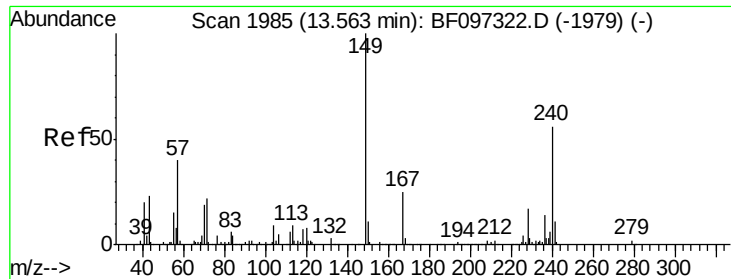
#74
 Fluoranthene
 Concen: 17.88 ng
 RT: 12.12 min Scan# 1757
 Delta R.T. -0.09 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	33.2
203	18.4	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: 13.54 min Scan# 1999

Delta R.T. -0.08 min

Lab File: BF097401.D

Acq: 5 Aug 2017 17:04

Instrument :

BNA_F

ClientSampleId :

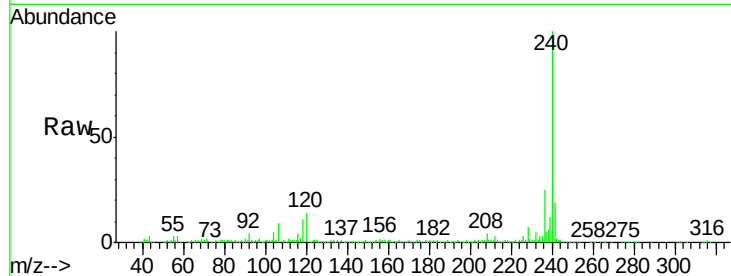
Tot Ion:240 Resp: 192141

Ion Ratio Lower Upper

240 100

120 13.5 5.8 8.8#

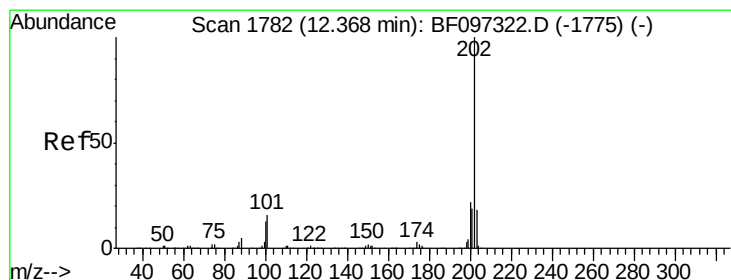
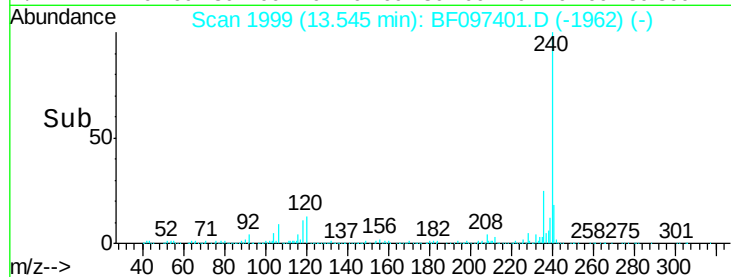
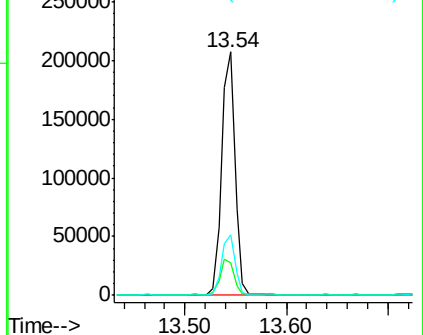
236 25.0 20.5 30.7



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: 11.73 ng

RT: 12.35 min Scan# 1796

Delta R.T. -0.08 min

Lab File: BF097401.D

Acq: 5 Aug 2017 17:04

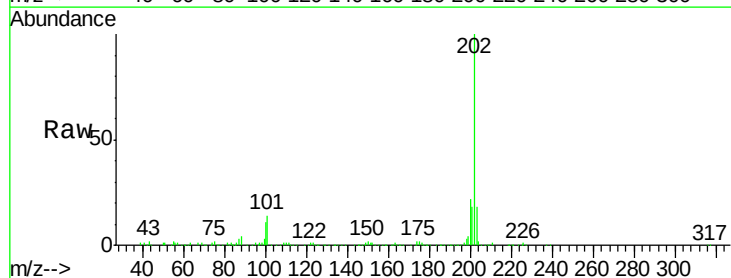
Tgt Ion:202 Resp: 184575

Ion Ratio Lower Upper

202 100

200 21.7 17.6 26.4

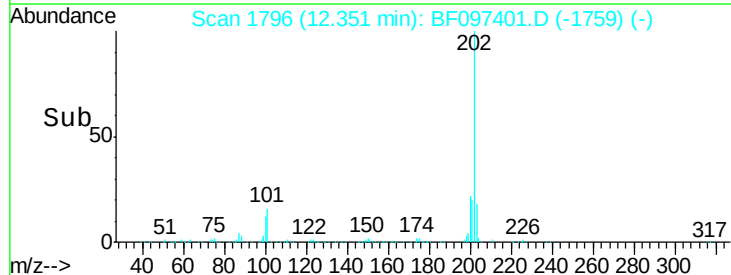
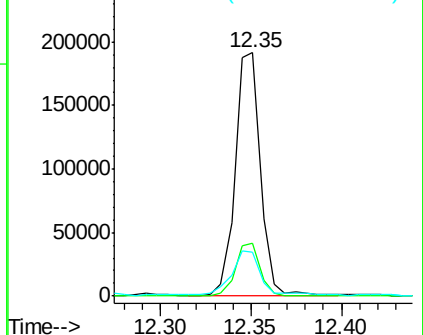
203 17.9 14.4 21.6

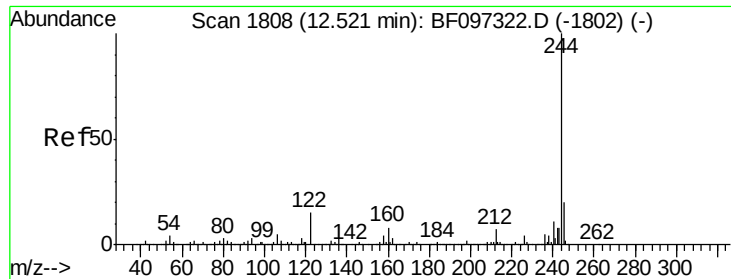


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

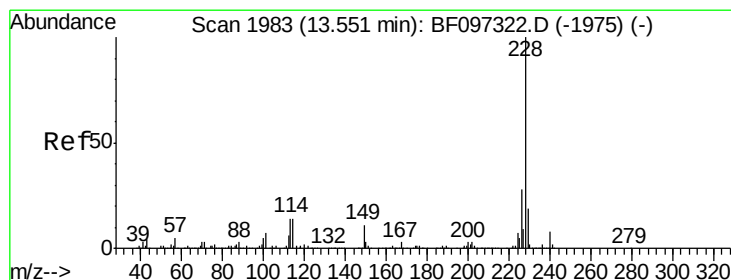
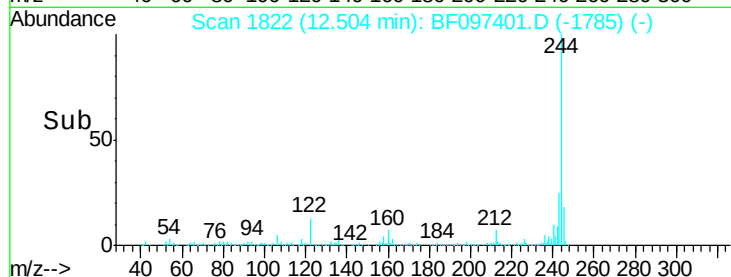
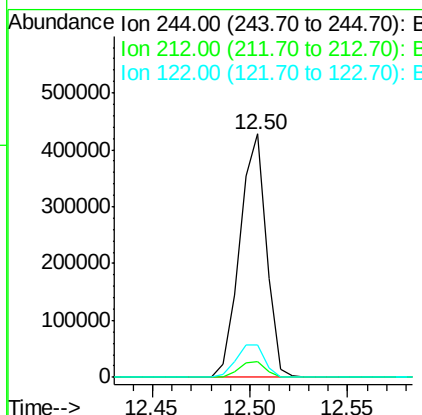
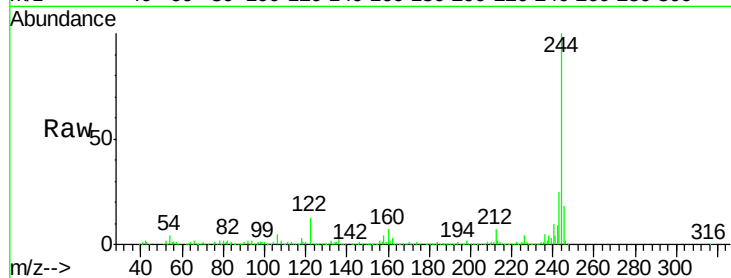




#78
 Terphenyl-d14
 Concen: 42.80 ng
 RT: 12.50 min Scan# 1822
 Delta R.T. -0.08 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

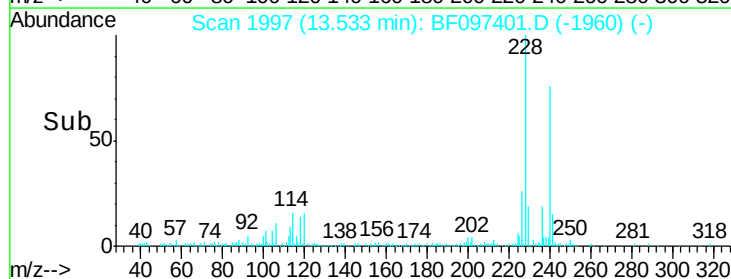
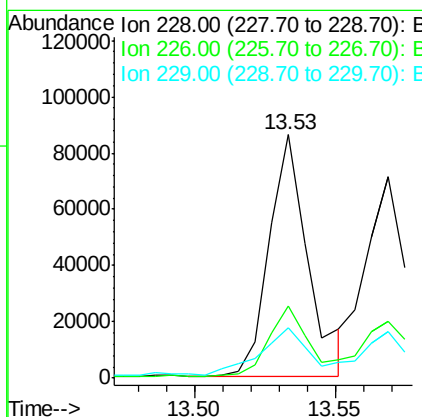
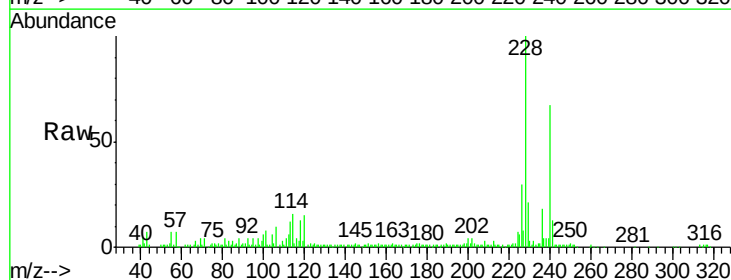
Instrument :
 BNA_F
 ClientSampled :

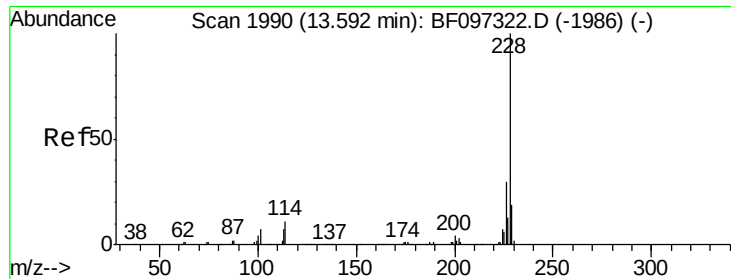
Tot Ion:244 Resp: 403384
 Ion Ratio Lower Upper
 244 100
 212 6.6 6.0 9.0
 122 13.5 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 6.62 ng
 RT: 13.53 min Scan# 1997
 Delta R.T. -0.08 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Tgt Ion:228 Resp: 82309
 Ion Ratio Lower Upper
 228 100
 226 29.6 22.6 33.8
 229 20.8 16.3 24.5





#82

Chrysene

Concen: 5.67 ng

RT: 13.57 min Scan# 2003

Delta R.T. -0.09 min

Lab File: BF097401.D

Acq: 5 Aug 2017 17:04

Instrument :

BNA_F

ClientSampled :

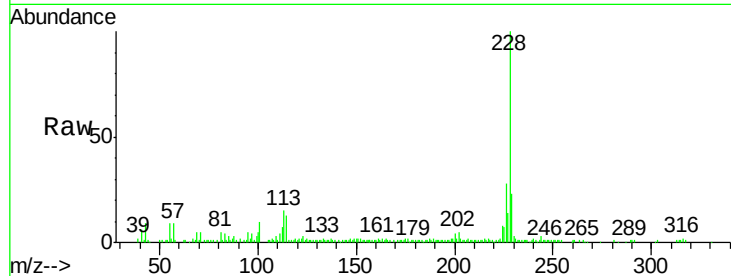
Tot Ion:228 Resp: 68822

Ion Ratio Lower Upper

228 100

226 28.2 24.9 37.3

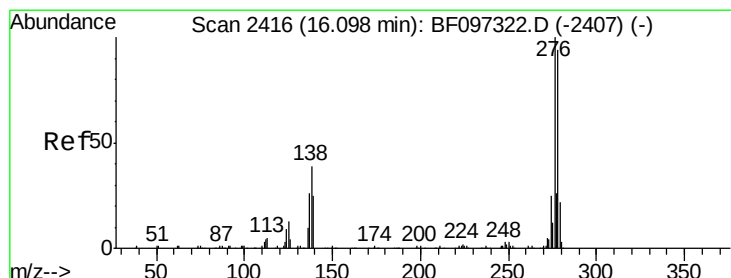
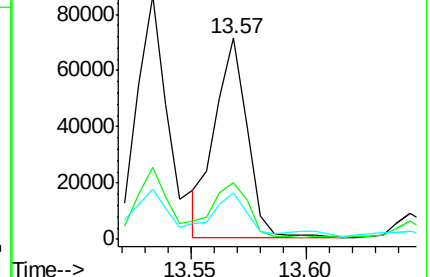
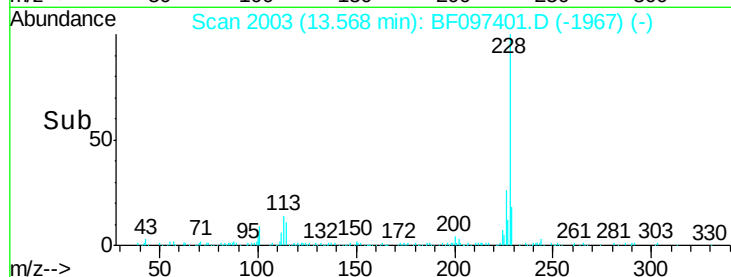
229 23.3 15.8 23.6



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: 2.10 ng

RT: 16.08 min Scan# 2430

Delta R.T. -0.12 min

Lab File: BF097401.D

Acq: 5 Aug 2017 17:04

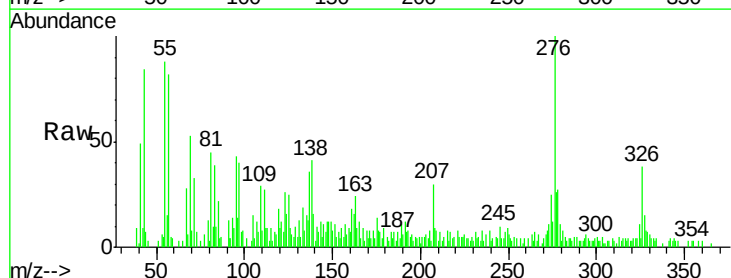
Tgt Ion:276 Resp: 21896

Ion Ratio Lower Upper

276 100

138 36.3 27.8 41.6

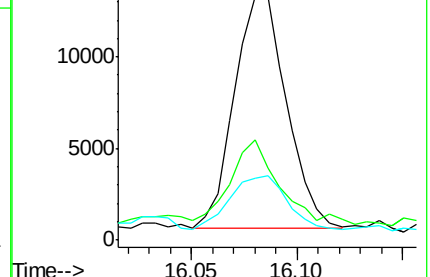
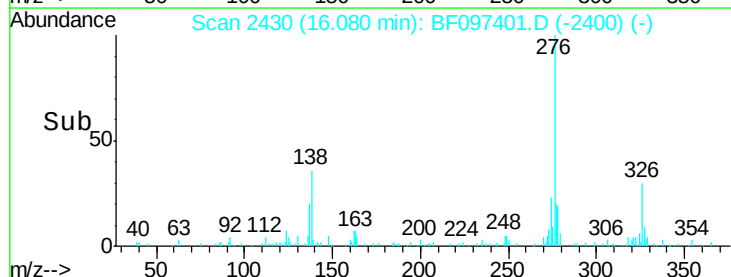
277 25.0 20.2 30.4

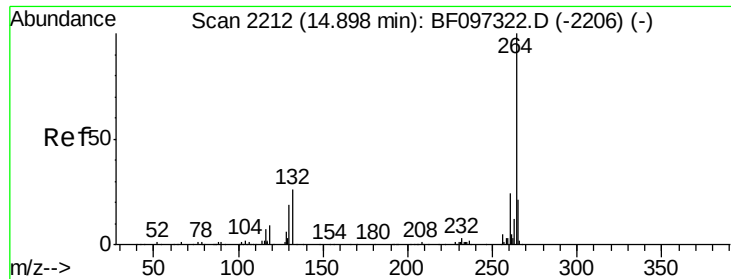


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

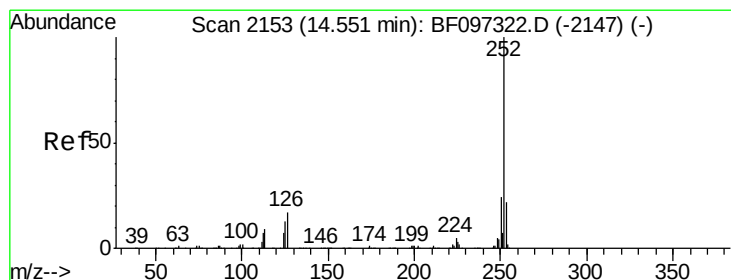
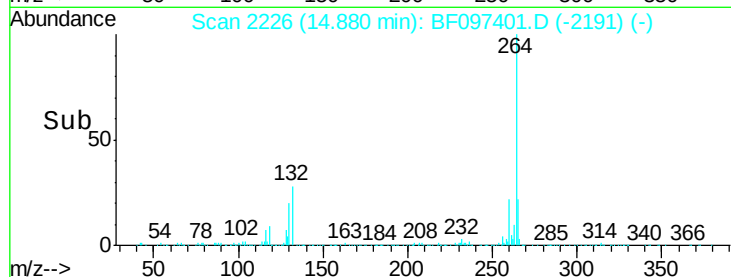
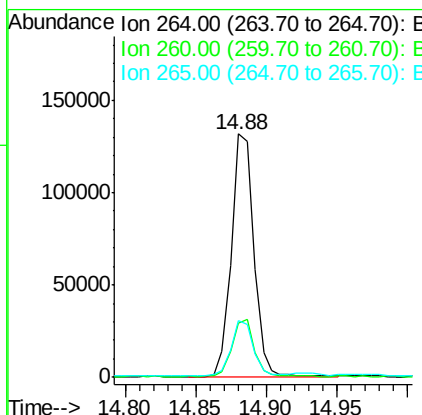
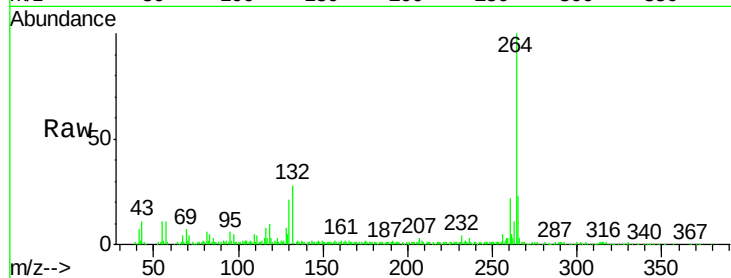




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.88 min Scan# 2226
Delta R.T. -0.09 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

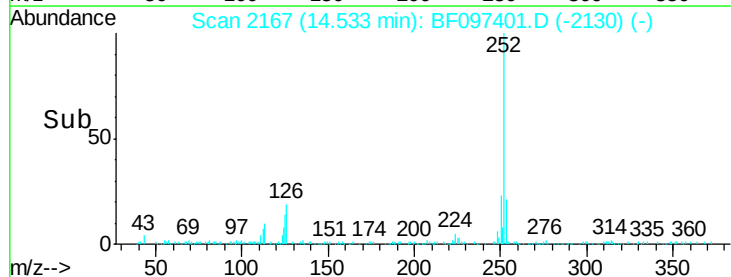
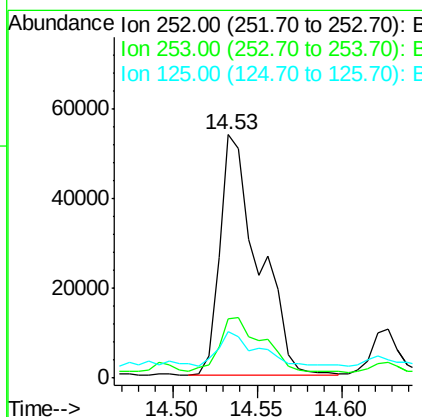
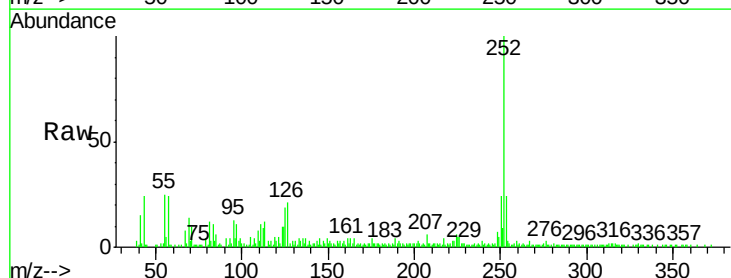
Instrument :
BNA_F
ClientSampleId :

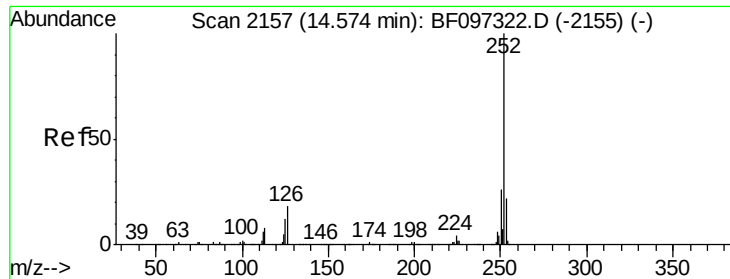
Tot Ion:264 Resp: 146806
Ion Ratio Lower Upper
264 100
260 22.5 19.5 29.3
265 23.1 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 9.57 ng
RT: 14.53 min Scan# 2167
Delta R.T. -0.08 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

Tgt Ion:252 Resp: 84484
Ion Ratio Lower Upper
252 100
253 24.1 18.1 27.1
125 19.2 9.8 14.8#

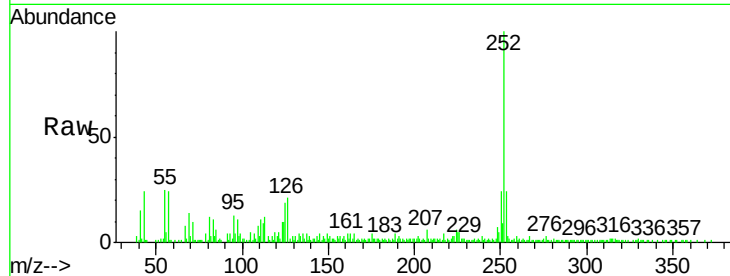




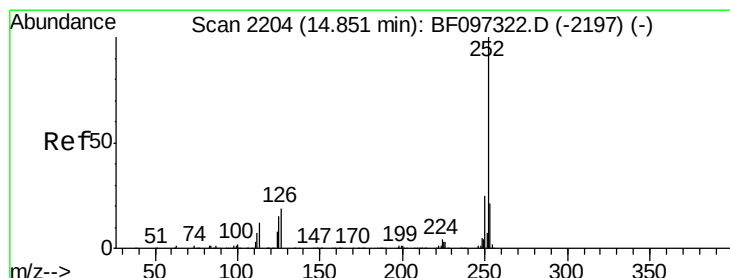
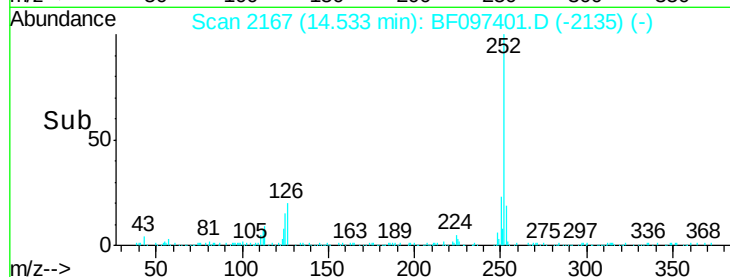
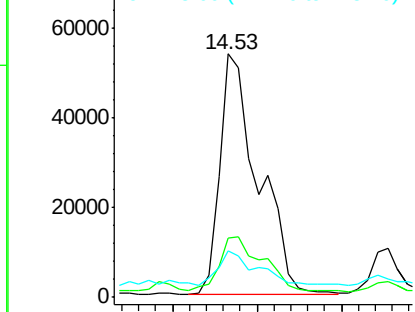
#88
Benzo(k)fluoranthene
Concen: 10.05 ng
RT: 14.53 min Scan# 2167
Delta R.T. -0.11 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 84484
Ion Ratio Lower Upper
252 100
253 24.1 18.4 27.6
125 19.2 13.1 19.7

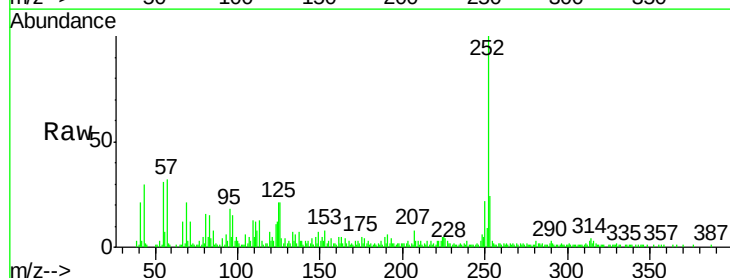


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

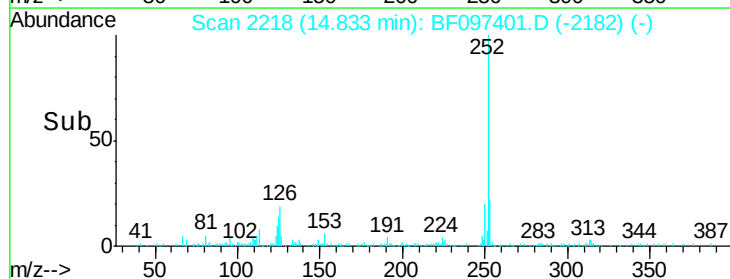
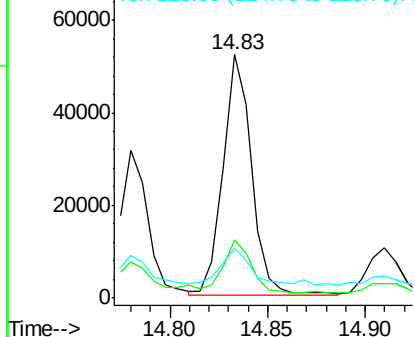


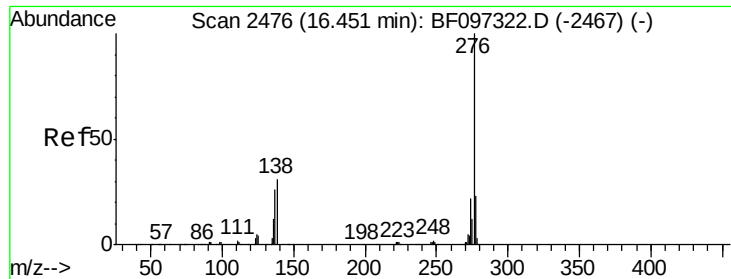
#89
Benzo(a)pyrene
Concen: 6.46 ng
RT: 14.83 min Scan# 2218
Delta R.T. -0.09 min
Lab File: BF097401.D
Acq: 5 Aug 2017 17:04

Tgt Ion:252 Resp: 52187
Ion Ratio Lower Upper
252 100
253 23.8 17.5 26.3
125 20.8 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





#91
 Benzo(a,h,i)perylene
 Concen: 3.11 ng
 RT: 16.44 min Scan# 2491
 Delta R.T. -0.13 min
 Lab File: BF097401.D
 Acq: 5 Aug 2017 17:04

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	31.9	18.6	28.0
138	41.1	25.4	38.0

