

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080517\
 Data File : BF097402.D
 Acq On : 5 Aug 2017 17:31
 Operator : SJ/JU
 Sample : I4611-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 06 01:09:21 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	6.43	152	90934	20.00	ng	-0.07
21) Naphthalene-d8	7.70	136	356868	20.00	ng	-0.08
38) Acenaphthene-d10	9.45	164	131832	20.00	ng	-0.08
63) Phenanthrene-d10	10.92	188	178092	20.00	ng	-0.08
75) Chrysene-d12	13.54	240	168681	20.00	ng	-0.08
86) Perylene-d12	14.89	264	112426	20.00	ng	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.03	112	683469	113.30	ng	-0.07
7) Phenol-d6	6.10	99	790560	114.80	ng	-0.07
23) Nitrobenzene-d5	7.00	82	487095	80.07	ng	-0.08
41) 2,4,6-Tribromophenol	10.24	330	115188	110.59	ng	-0.08
44) 2-Fluorobiphenyl	8.79	172	632199	81.38	ng	-0.08
78) Terphenyl-d14	12.50	244	432977	52.33	ng	-0.08

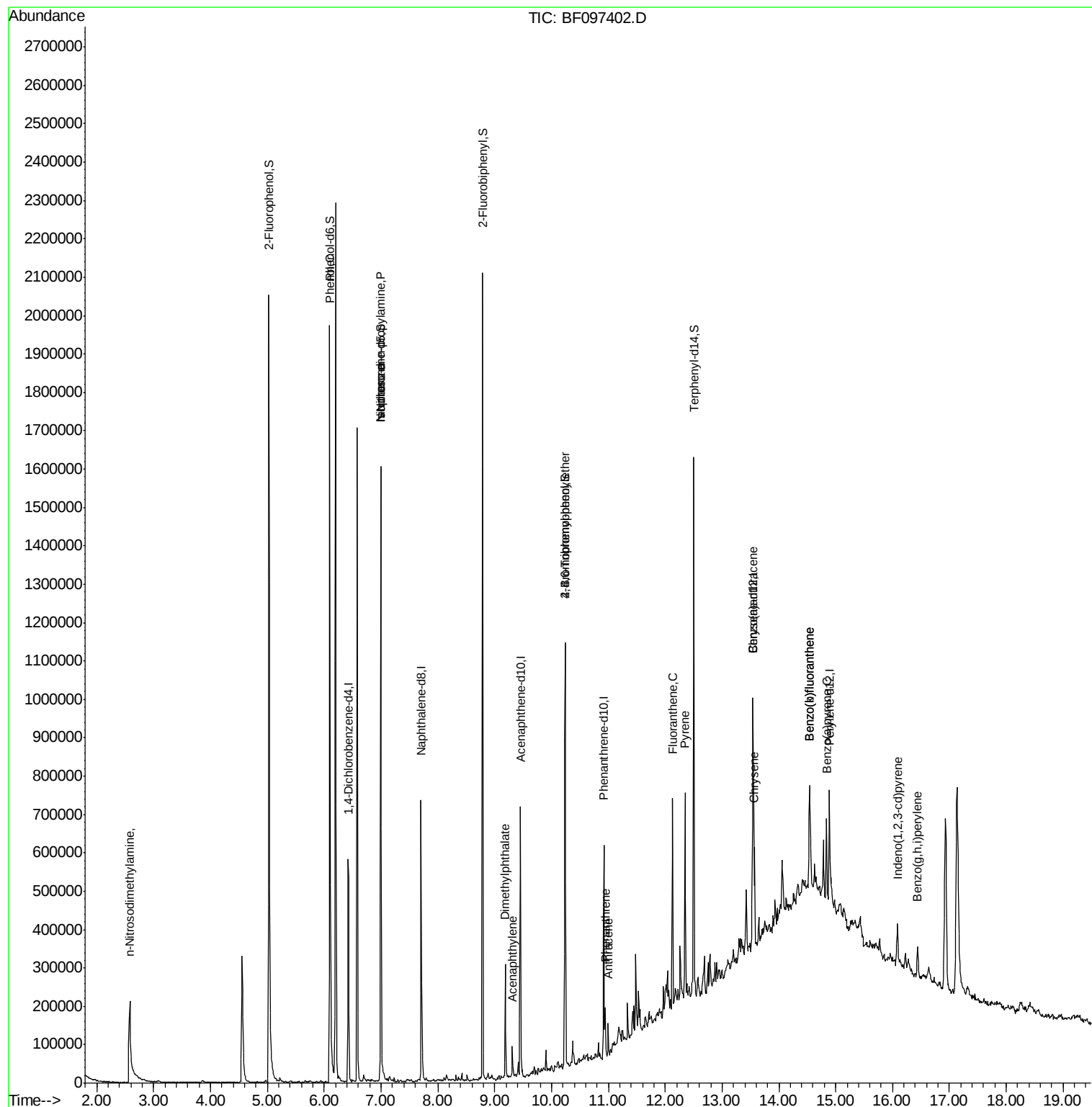
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) n-Nitrosodimethylamine	2.58	42	9387	2.20	ng	# 1
10) Phenol	6.11	94	23179	2.84	ng	# 70
19) n-Nitroso-di-n-propylamine	7.00	70	66419	14.65	ng	# 88
25) Isophorone	7.00	82	487092	40.89	ng	# 67
48) Acenaphthylene	9.31	152	34404	2.70	ng	98
49) Dimethylphthalate	9.19	163	106857	10.67	ng	# 99
66) 4-Bromophenyl-phenylether	10.24	248	7289	4.10	ng	# 1
70) Phenanthrene	10.94	178	46678	4.89	ng	97
71) Anthracene	11.00	178	27463	2.81	ng	98
74) Fluoranthene	12.13	202	184272	19.71	ng	97
77) Pyrene	12.35	202	200260	14.50	ng	99
80) Benzo(a)anthracene	13.54	228	125813	11.53	ng	96
82) Chrysene	13.57	228	110732	10.39	ng	99
85) Indeno(1,2,3-cd)pyrene	16.09	276	47421	5.19	ng	96
87) Benzo(b)fluoranthene	14.54	252	162323	24.02	ng	# 90
88) Benzo(k)fluoranthene	14.54	252	162323	25.21	ng	94
89) Benzo(a)pyrene	14.84	252	87751	14.19	ng	# 93
91) Benzo(g,h,i)perylene	16.44	276	47853	9.00	ng	91

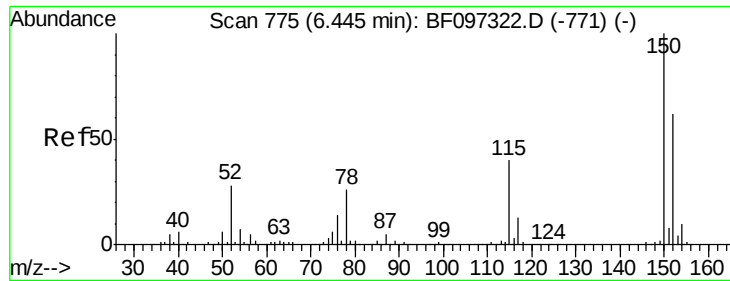
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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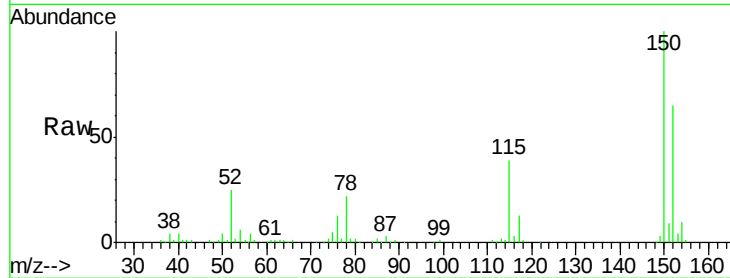


#1

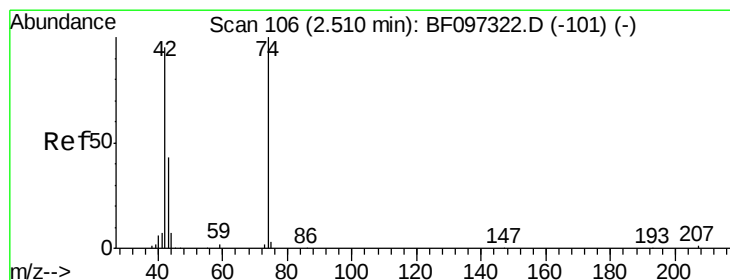
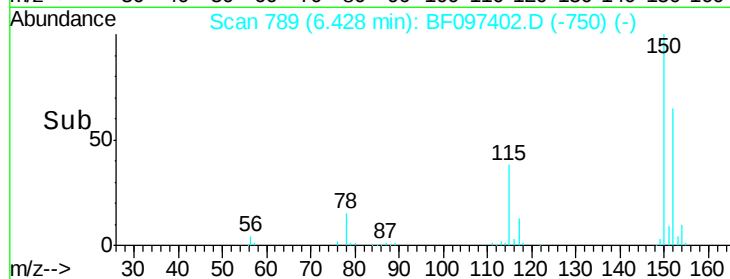
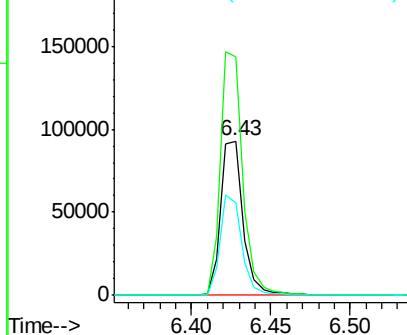
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.43 min Scan# 789
Delta R.T. -0.07 min
Lab File: BF097402.D
Acq: 5 Aug 2017 17:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 90934
Ion Ratio Lower Upper
152 100
150 154.9 126.2 189.2
115 59.9 52.2 78.2



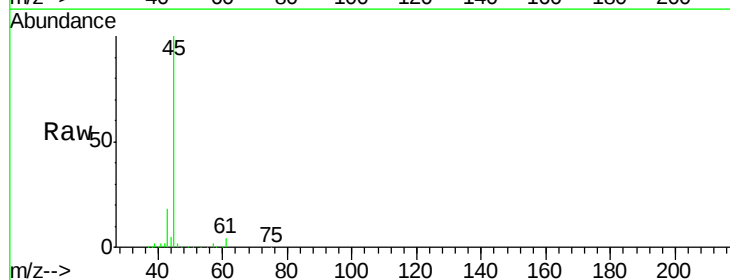
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



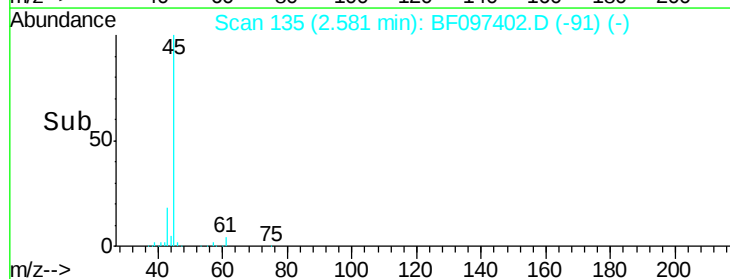
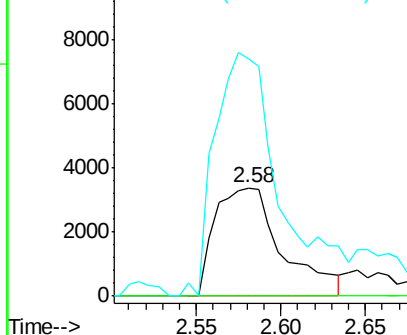
#4

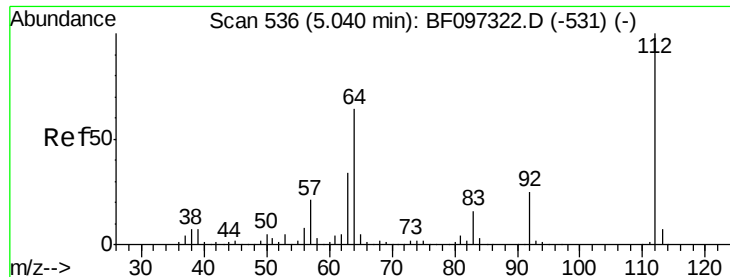
n-Nitrosodimethylamine
Concen: 2.20 ng
RT: 2.58 min Scan# 135
Delta R.T. -0.04 min
Lab File: BF097402.D
Acq: 5 Aug 2017 17:31

Tgt Ion: 42 Resp: 9387
Ion Ratio Lower Upper
42 100
74 0.0 103.9 155.9#
44 218.8 5.7 8.5#



Abundance Ion 42.00 (41.70 to 42.70): BF0
Ion 74.00 (73.70 to 74.70): BF0
Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 113.30 ng

RT: 5.03 min Scan# 551

Delta R.T. -0.07 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

Instrument :

BNA_F

ClientSampled :

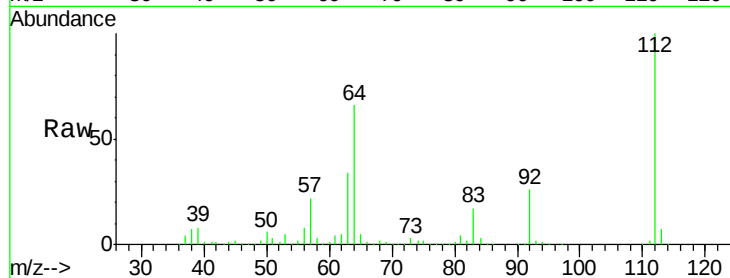
Tot Ion:112 Resp: 683469

Ion Ratio Lower Upper

112 100

64 65.8 46.0 69.0

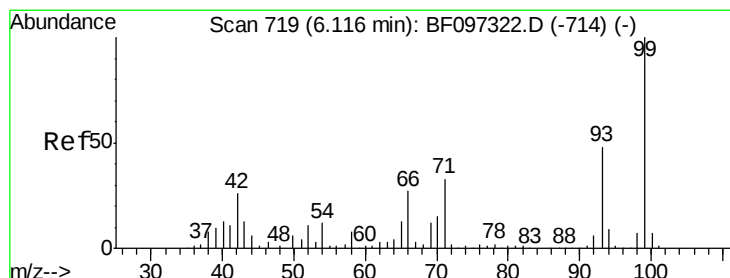
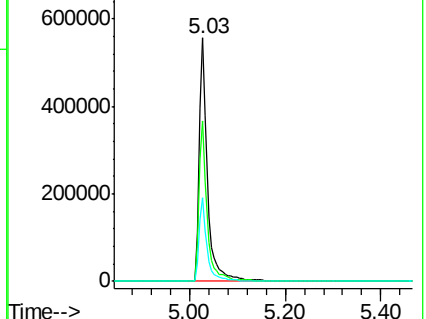
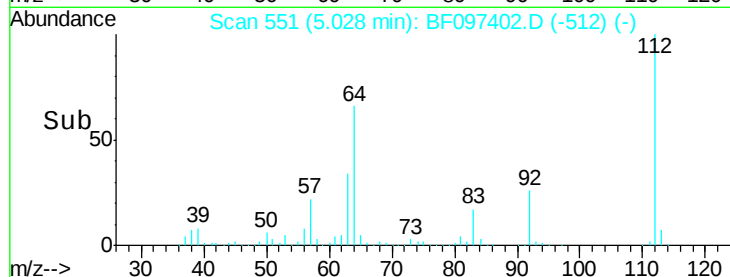
63 34.2 23.4 35.0



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: 114.80 ng

RT: 6.10 min Scan# 733

Delta R.T. -0.07 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

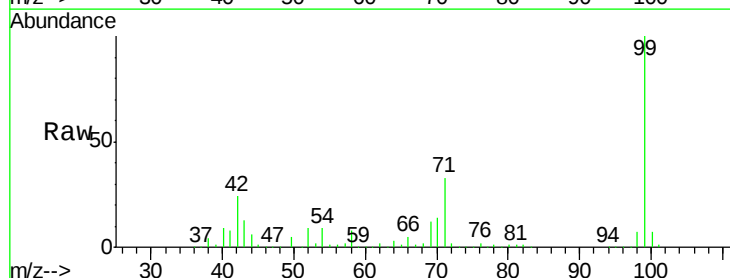
Tgt Ion: 99 Resp: 790560

Ion Ratio Lower Upper

99 100

42 24.0 13.5 20.3#

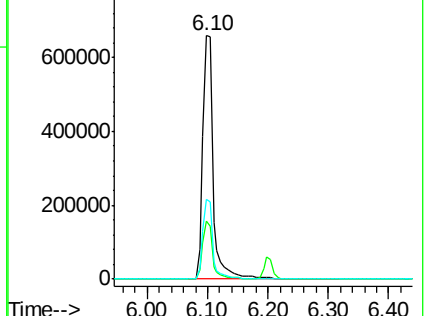
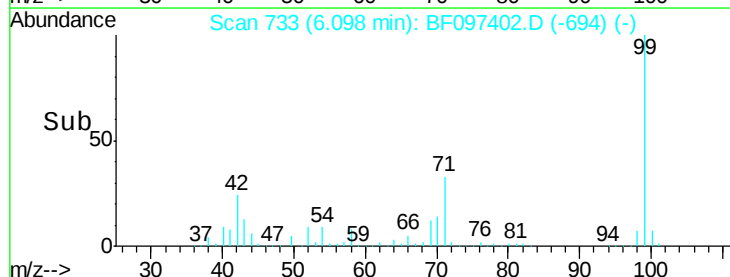
71 32.9 24.5 36.7

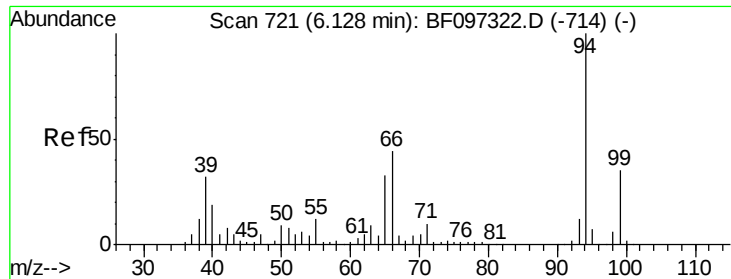


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#10

Phenol

Concen: 2.84 ng

RT: 6.11 min Scan# 735

Delta R.T. -0.07 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

Instrument :

BNA_F

ClientSampleId :

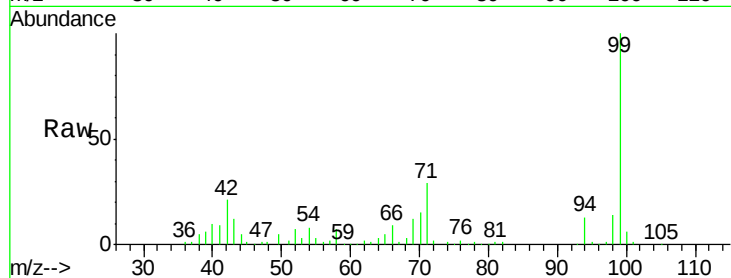
Tot Ion: 94 Resp: 23179

Ion Ratio Lower Upper

94 100

65 39.1 9.9 49.9

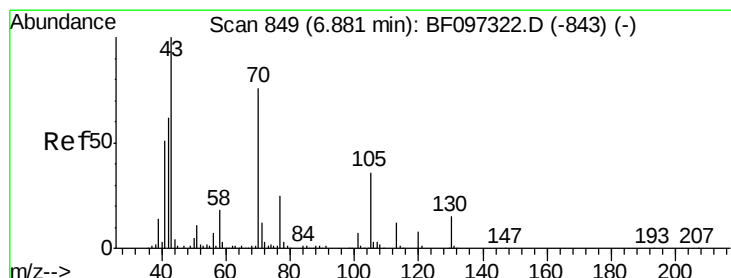
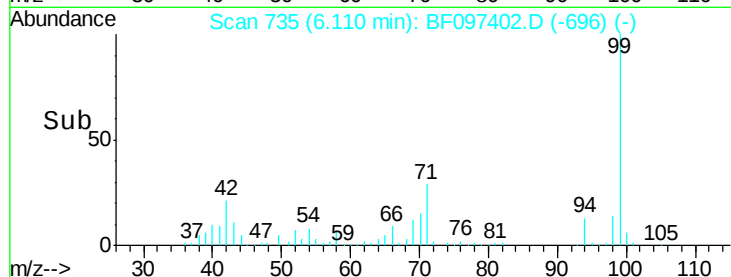
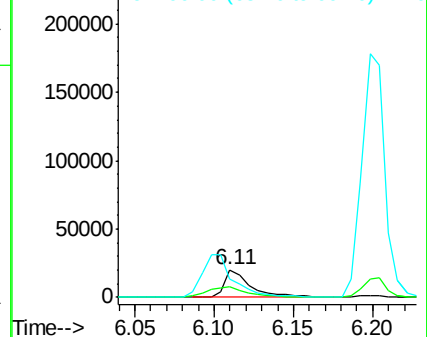
66 68.6 23.1 63.1#



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: 14.65 ng

RT: 7.00 min Scan# 886

Delta R.T. 0.06 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

Tgt Ion: 70 Resp: 66419

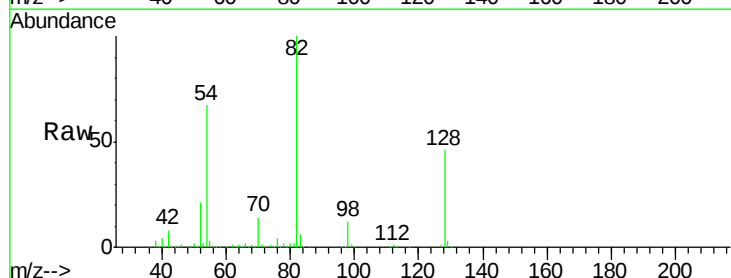
Ion Ratio Lower Upper

70 100

42 58.0 47.2 70.8

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

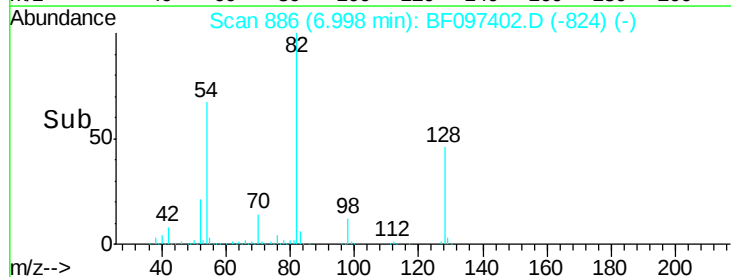
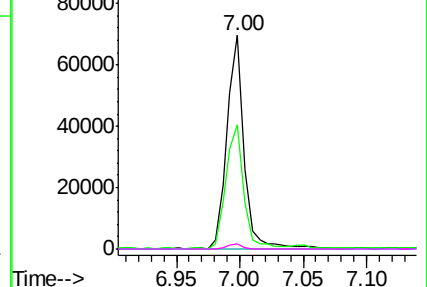


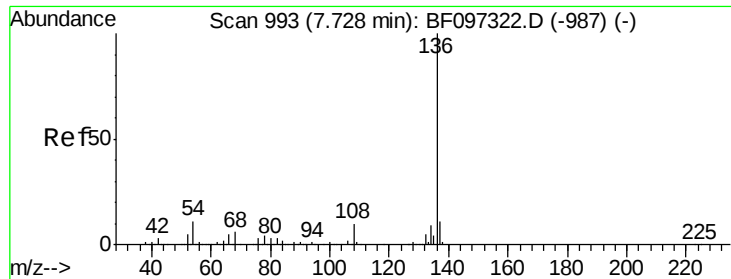
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.70 min Scan# 1006

Delta R.T. -0.08 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 356868

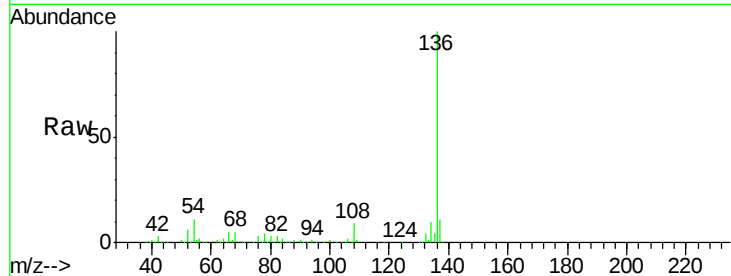
Ion Ratio Lower Upper

136 100

137 11.3 8.5 12.7

54 11.2 4.9 7.3#

68 5.5 4.1 6.1

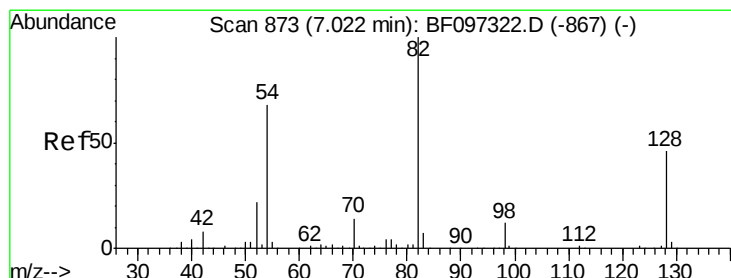
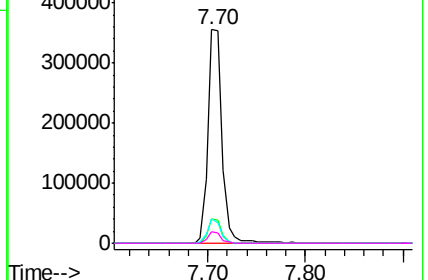
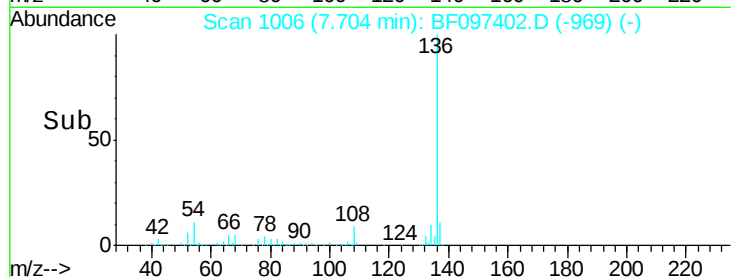


Abundance Ion 136.00 (135.70 to 136.70): E

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: 80.07 ng

RT: 7.00 min Scan# 886

Delta R.T. -0.08 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

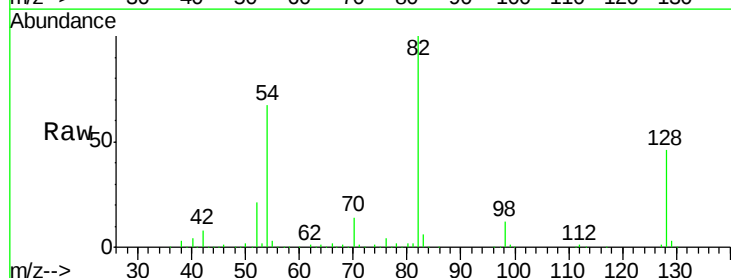
Tgt Ion: 82 Resp: 487095

Ion Ratio Lower Upper

82 100

128 46.2 34.0 51.0

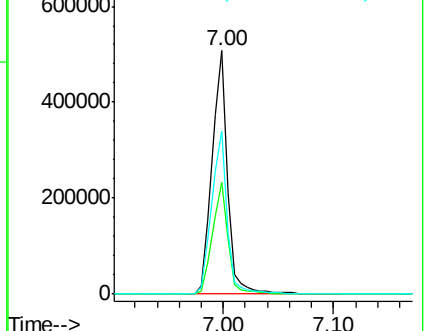
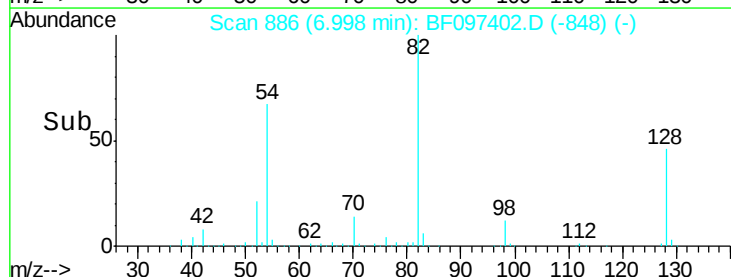
54 67.0 42.2 63.2#

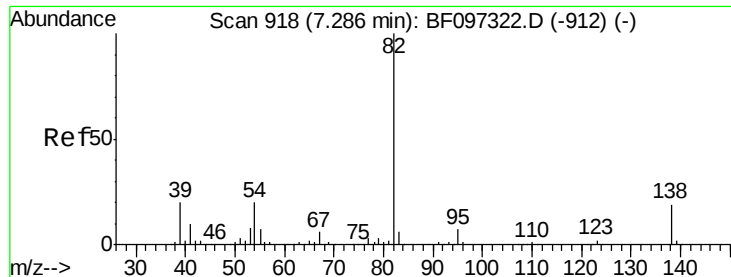


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 40.89 ng

RT: 7.00 min Scan# 886

Delta R.T. -0.34 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

Instrument :

BNA_F

ClientSampleId :

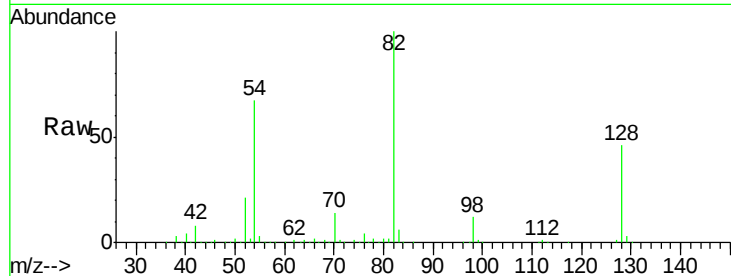
Tot Ion: 82 Resp: 487092

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

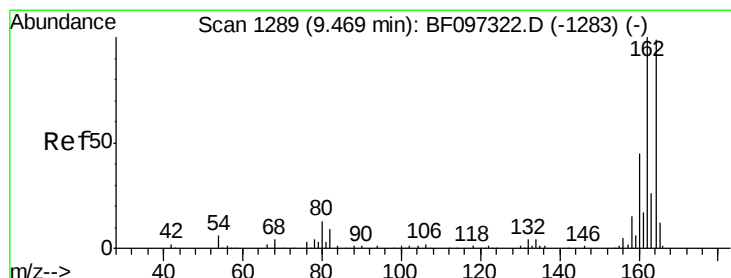
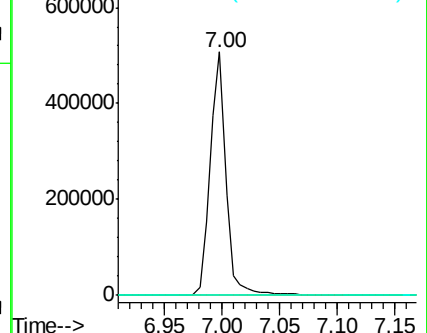
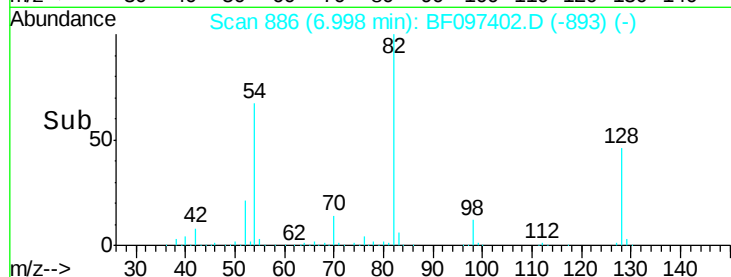
138 0.0 13.1 19.7#



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): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.45 min Scan# 1303

Delta R.T. -0.08 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

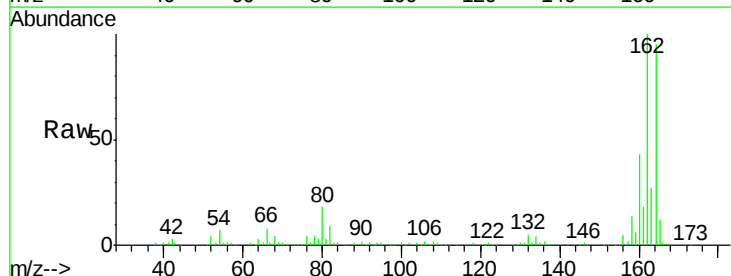
Tgt Ion:164 Resp: 131832

Ion Ratio Lower Upper

164 100

162 105.1 82.6 123.8

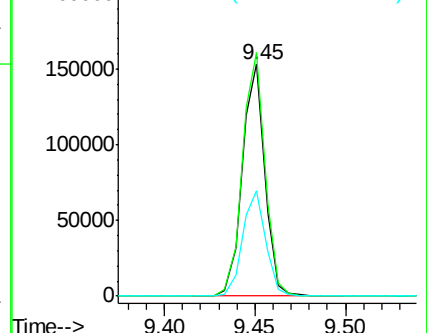
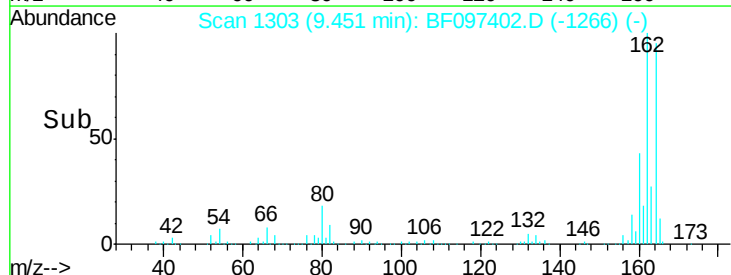
160 45.4 36.2 54.2

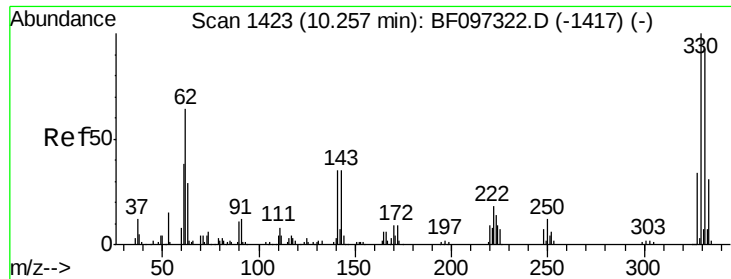


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

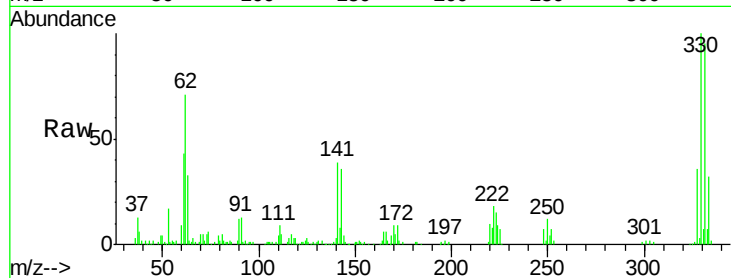




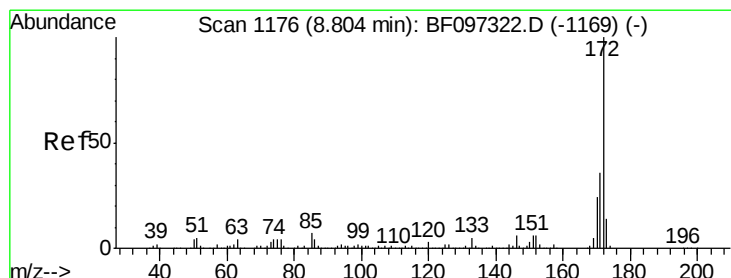
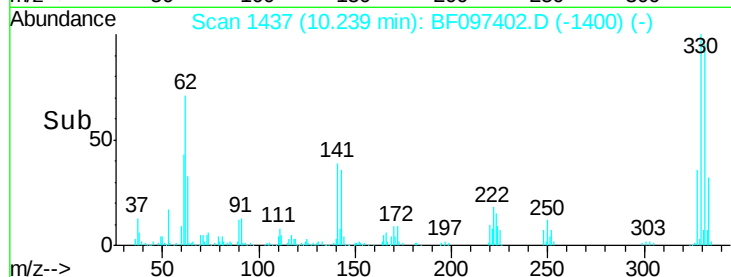
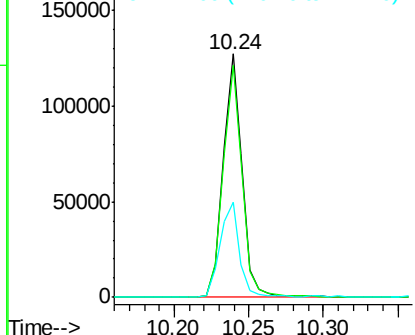
#41
 2,4,6-Tribromophenol
 Concen: 110.59 ng
 RT: 10.24 min Scan# 1437
 Delta R.T. -0.08 min
 Lab File: BF097402.D
 Acq: 5 Aug 2017 17:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.6	115.0
141	40.9	31.4	47.2

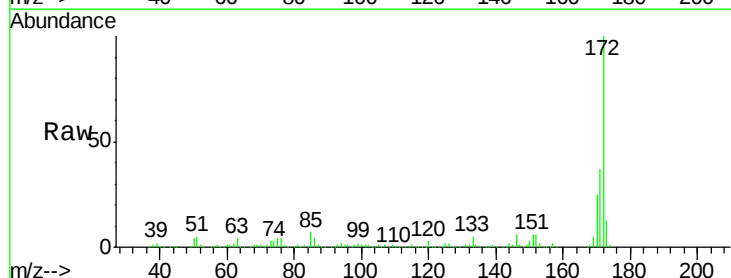


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

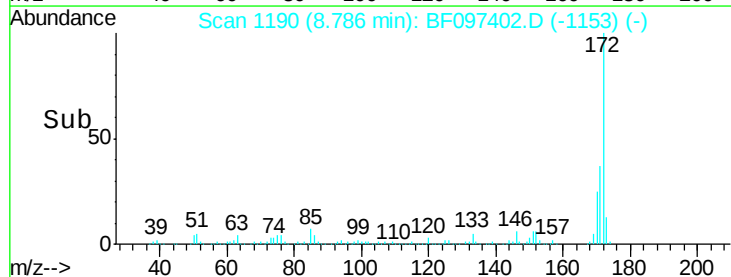
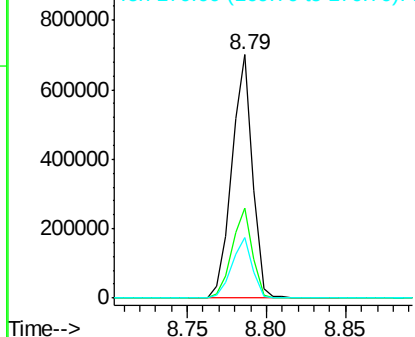


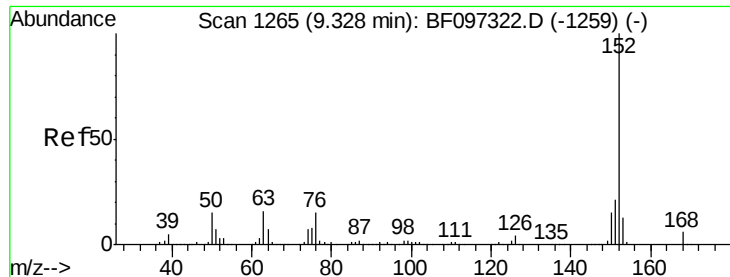
#44
 2-Fluorobiphenyl
 Concen: 81.38 ng
 RT: 8.79 min Scan# 1190
 Delta R.T. -0.08 min
 Lab File: BF097402.D
 Acq: 5 Aug 2017 17:31

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.6	44.4
170	24.6	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

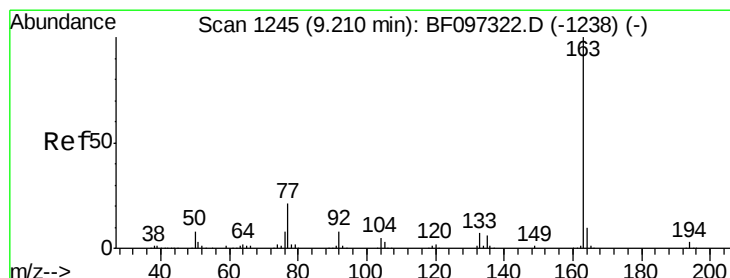
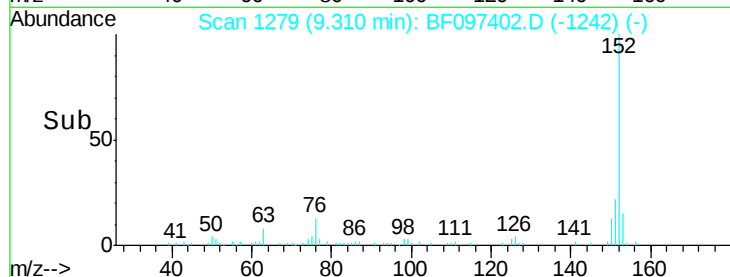
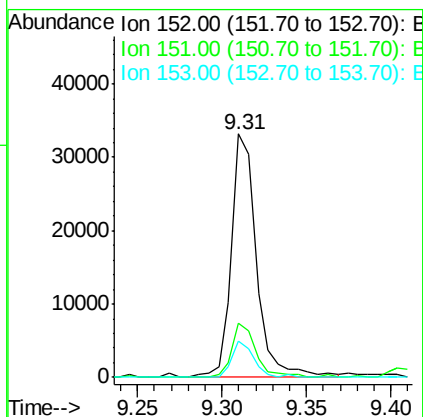
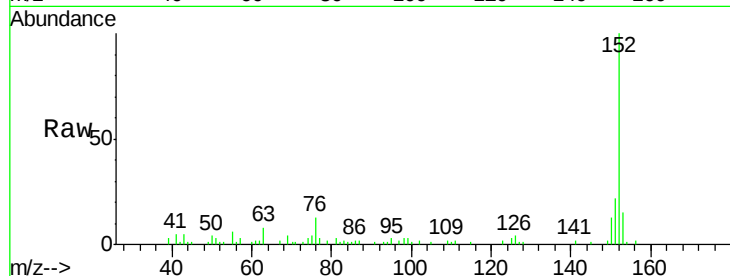




#48
Acenaphthylene
Concen: 2.70 ng
RT: 9.31 min Scan# 1279
Delta R.T. -0.08 min
Lab File: BF097402.D
Acq: 5 Aug 2017 17:31

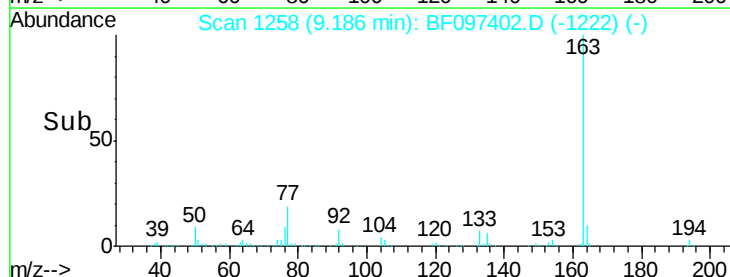
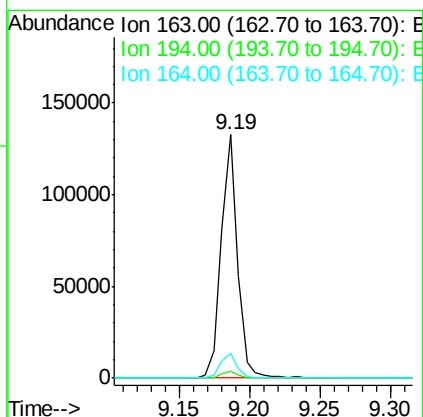
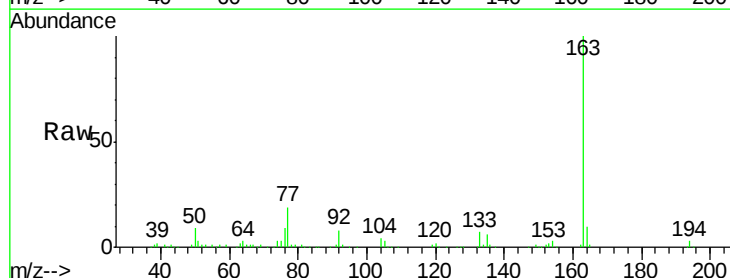
Instrument :
BNA_F
ClientSampleId :

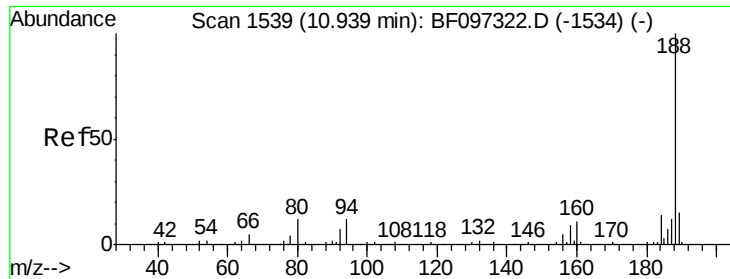
Tot Ion:152 Resp: 34404
Ion Ratio Lower Upper
152 100
151 22.0 16.8 25.2
153 14.6 10.8 16.2



#49
Dimethylphthalate
Concen: 10.67 ng
RT: 9.19 min Scan# 1258
Delta R.T. -0.09 min
Lab File: BF097402.D
Acq: 5 Aug 2017 17:31

Tgt Ion:163 Resp: 106857
Ion Ratio Lower Upper
163 100
194 2.6 2.6 4.0#
164 10.0 8.4 12.6

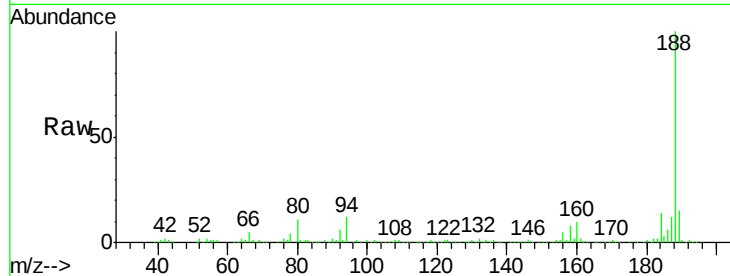




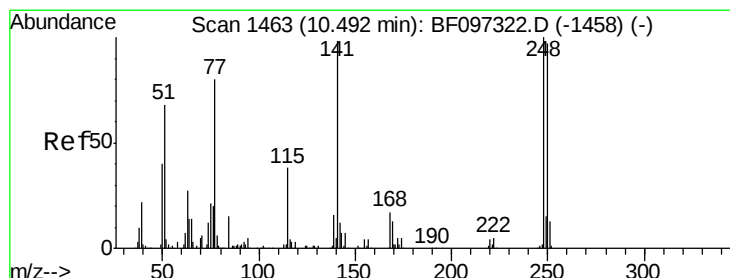
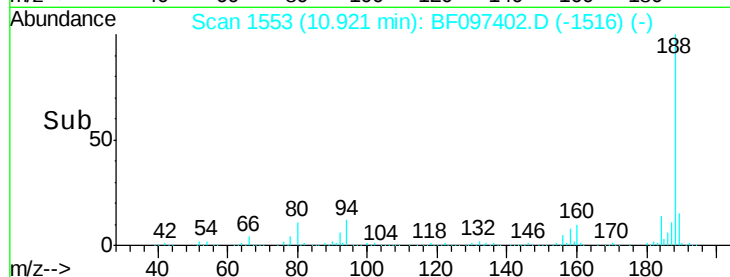
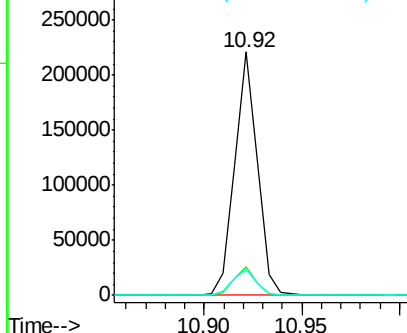
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.92 min Scan# 1553
 Delta R.T. -0.08 min
 Lab File: BF097402.D
 Acq: 5 Aug 2017 17:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 178092
 Ion Ratio Lower Upper
 188 100
 94 11.6 9.4 14.2
 80 10.8 10.2 15.2

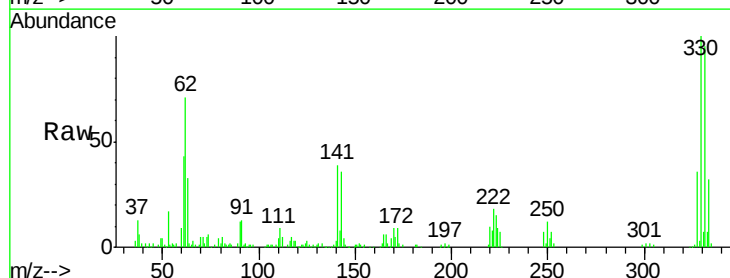


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

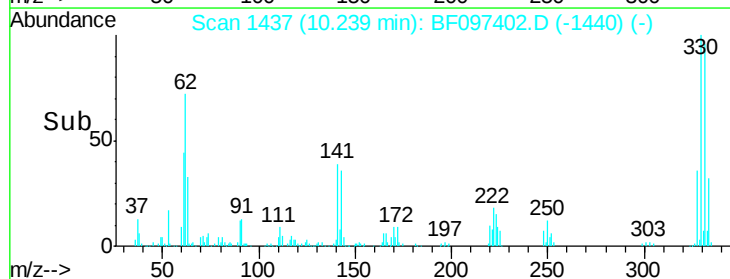
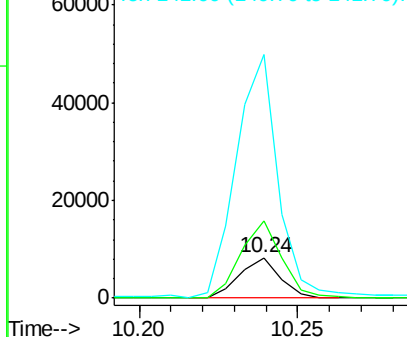


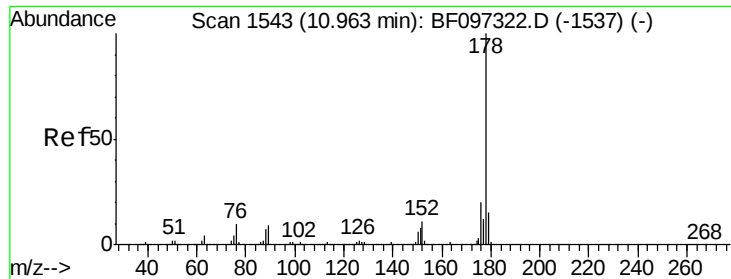
#66
 4-Bromophenyl-phenylether
 Concen: 4.10 ng
 RT: 10.24 min Scan# 1437
 Delta R.T. -0.32 min
 Lab File: BF097402.D
 Acq: 5 Aug 2017 17:31

Tgt Ion:248 Resp: 7289
 Ion Ratio Lower Upper
 248 100
 250 190.5 76.8 115.2#
 141 597.9 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: 4.89 ng

RT: 10.94 min Scan# 1557

Delta R.T. -0.08 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

Instrument :

BNA_F

ClientSampleId :

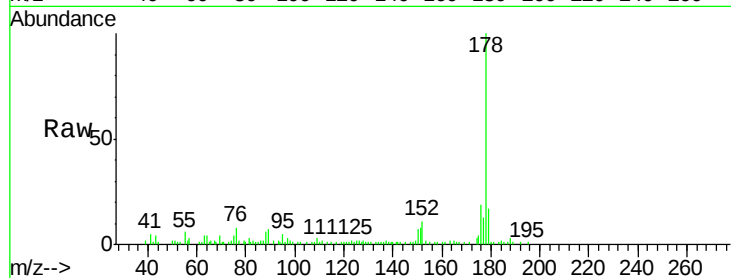
Tot Ion:178 Resp: 46678

Ion Ratio Lower Upper

178 100

176 19.0 16.2 24.4

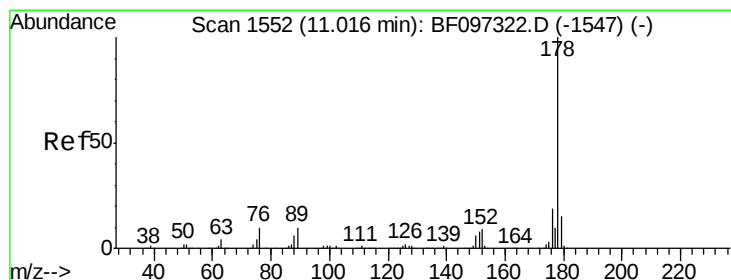
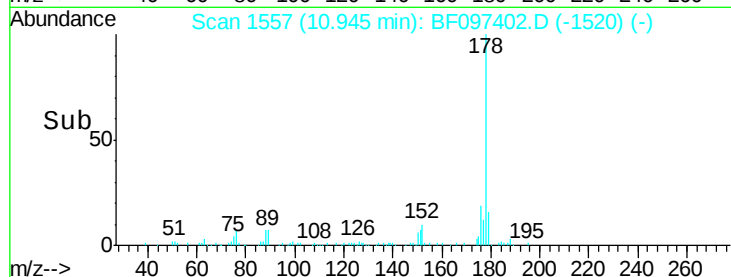
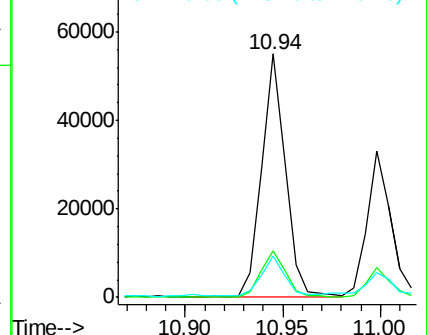
179 16.9 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.81 ng

RT: 11.00 min Scan# 1566

Delta R.T. -0.08 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

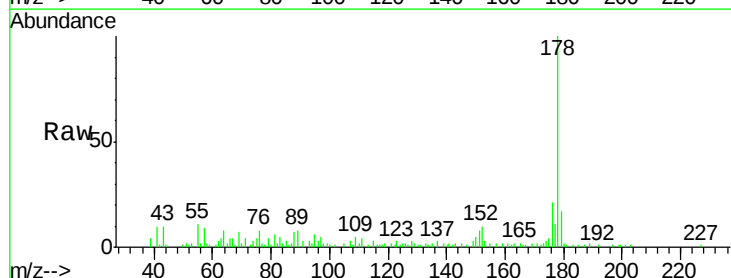
Tgt Ion:178 Resp: 27463

Ion Ratio Lower Upper

178 100

176 20.6 15.8 23.8

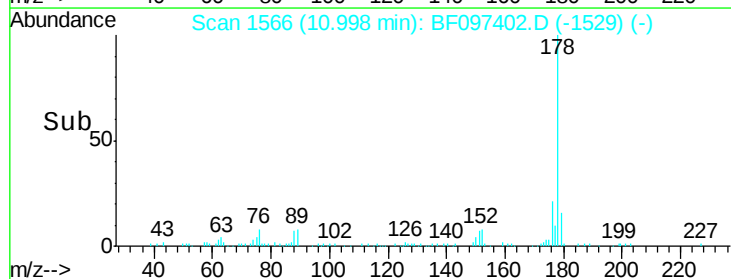
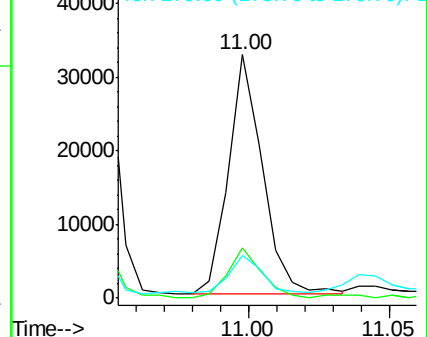
179 17.4 12.7 19.1

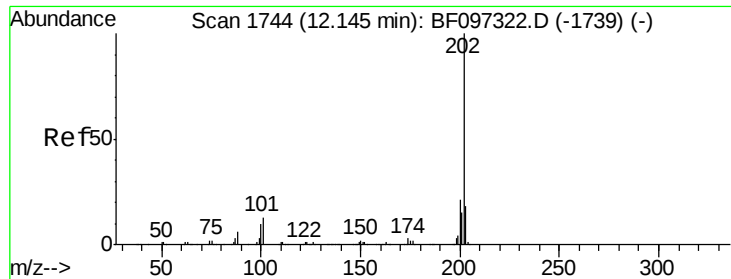


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 19.71 ng

RT: 12.13 min Scan# 1758

Delta R.T. -0.08 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

Instrument :

BNA_F

ClientSampleId :

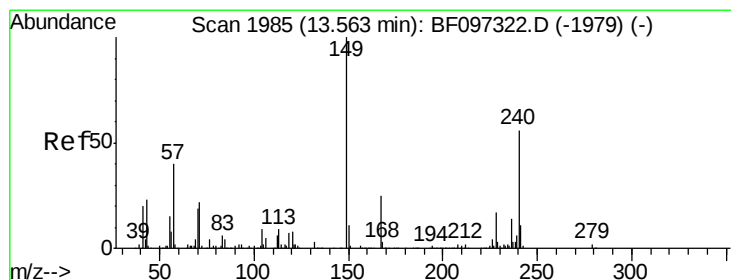
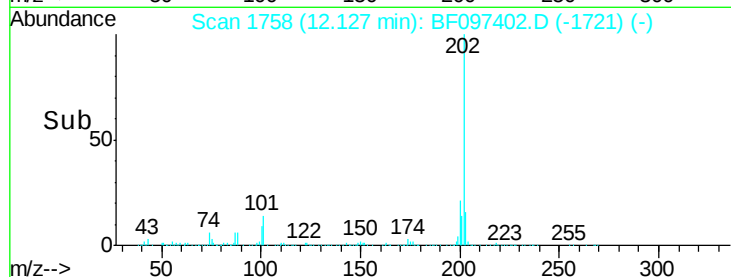
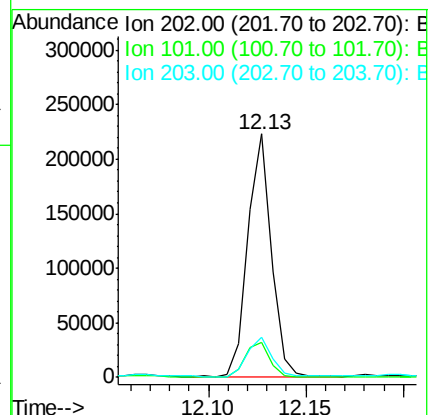
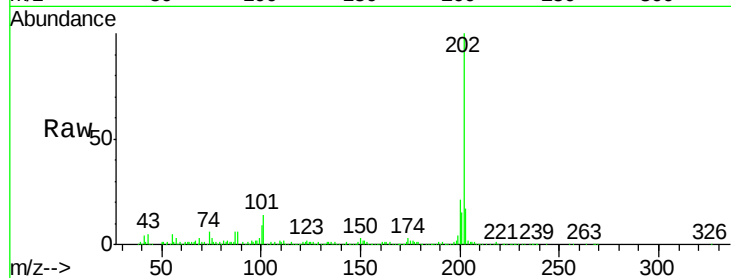
Tot Ion:202 Resp: 184272

Ion Ratio Lower Upper

202 100

101 14.2 0.0 33.2

203 16.5 0.0 38.1



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.54 min Scan# 1999

Delta R.T. -0.08 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

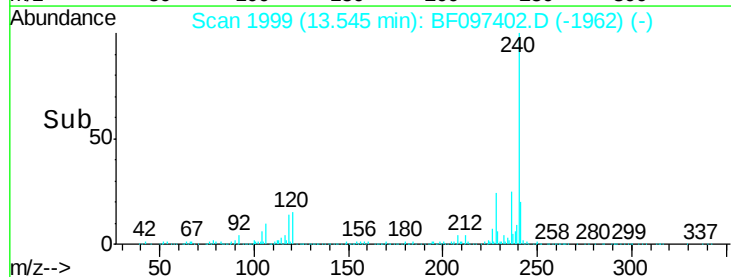
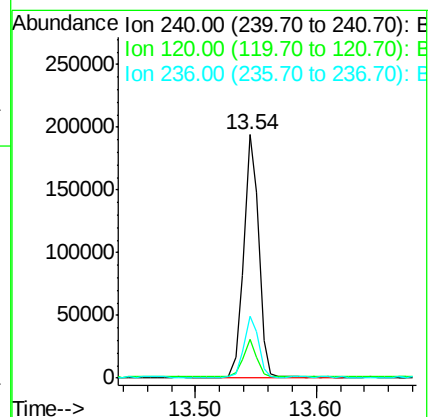
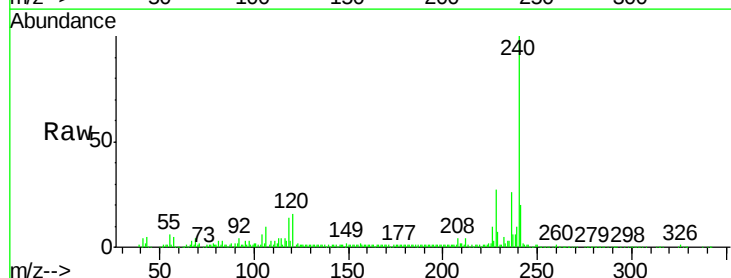
Tgt Ion:240 Resp: 168681

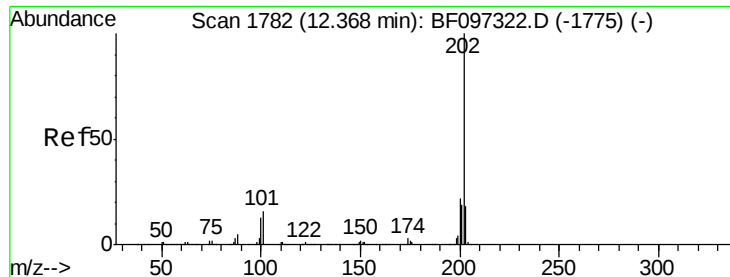
Ion Ratio Lower Upper

240 100

120 15.9 5.8 8.8#

236 25.6 20.5 30.7





#77

Pvrene

Concen: 14.50 ng

RT: 12.35 min Scan# 1796

Delta R.T. -0.08 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

Instrument :

BNA_F

ClientSampleId :

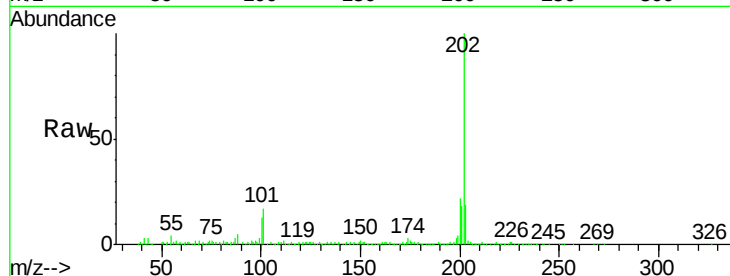
Tot Ion:202 Resp: 200260

Ion Ratio Lower Upper

202 100

200 22.1 17.6 26.4

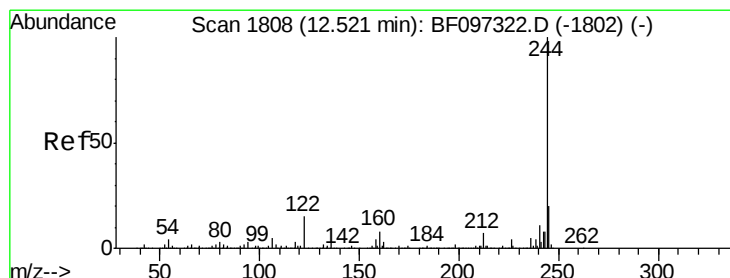
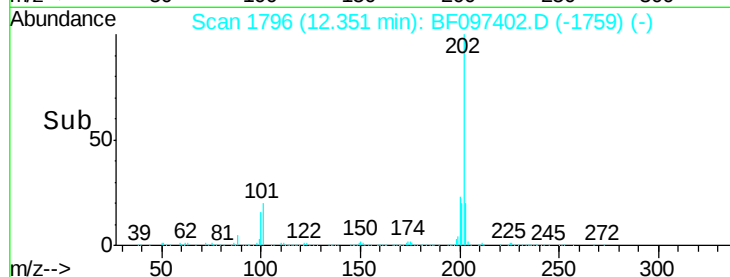
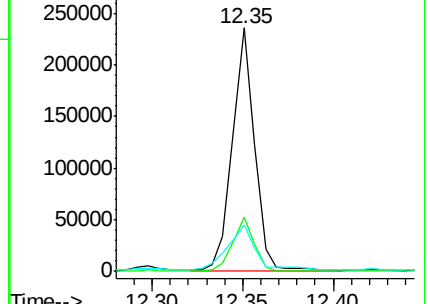
203 19.0 14.4 21.6



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: 52.33 ng

RT: 12.50 min Scan# 1822

Delta R.T. -0.08 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

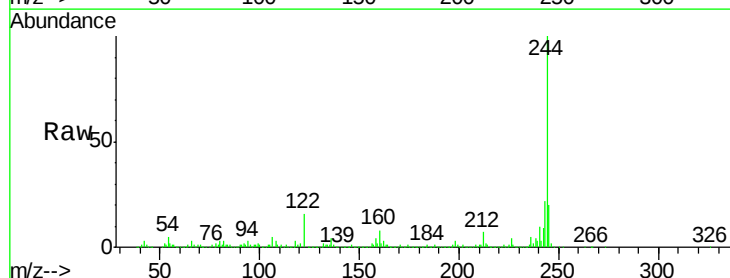
Tgt Ion:244 Resp: 432977

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

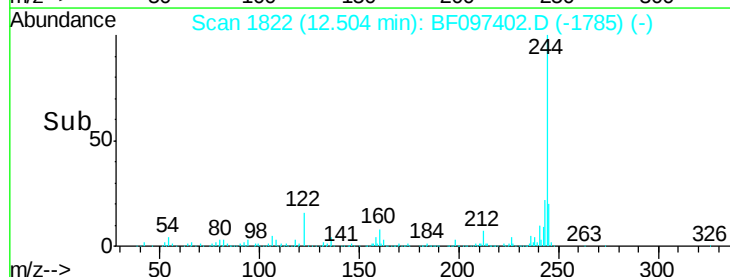
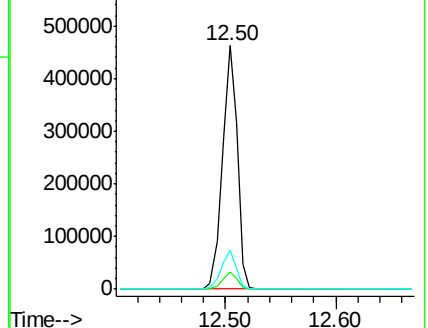
122 16.0 10.3 15.5#

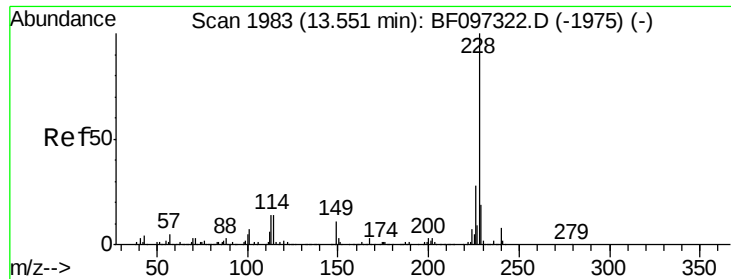


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

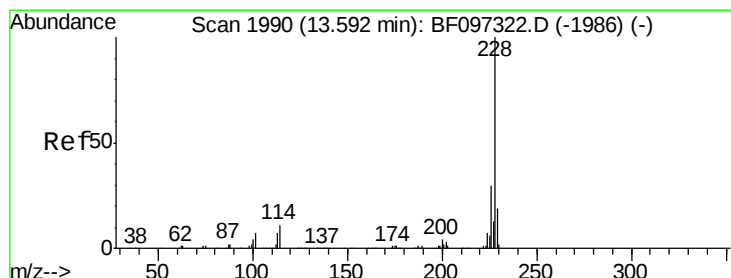
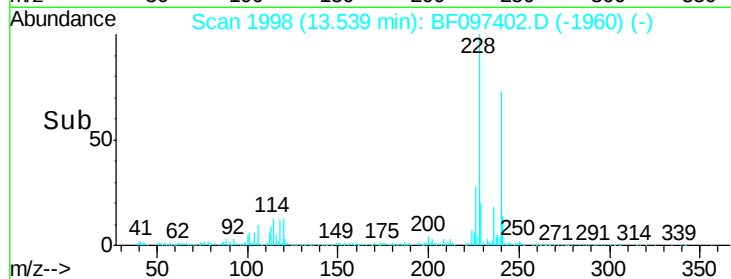
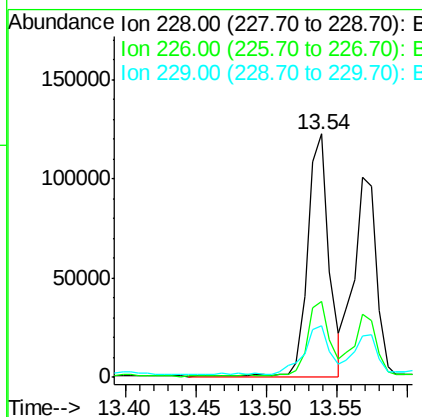
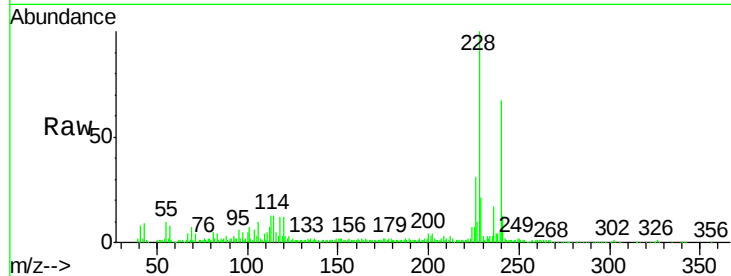




#80
Benzo(a)anthracene
Concen: 11.53 ng
RT: 13.54 min Scan# 1998
Delta R.T. -0.08 min
Lab File: BF097402.D
Acq: 5 Aug 2017 17:31

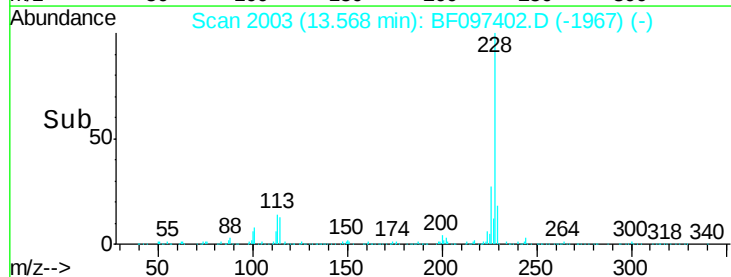
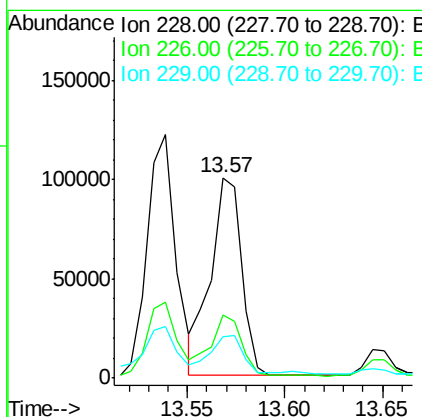
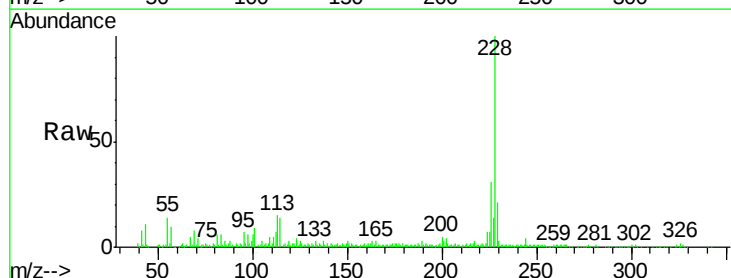
Instrument :
BNA_F
ClientSampleId :

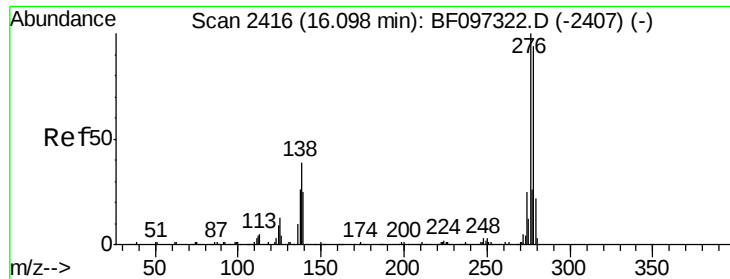
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.5	22.6	33.8
229	21.4	16.3	24.5



#82
Chrysene
Concen: 10.39 ng
RT: 13.57 min Scan# 2003
Delta R.T. -0.09 min
Lab File: BF097402.D
Acq: 5 Aug 2017 17:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.9	37.3
229	20.9	15.8	23.6

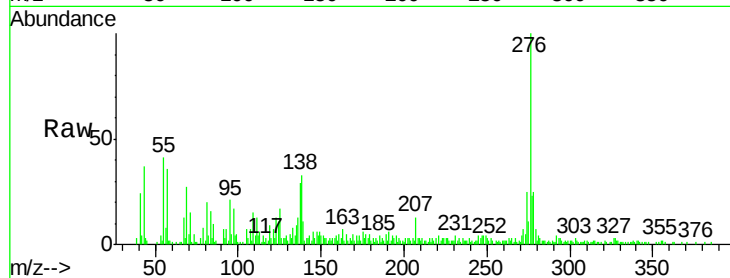




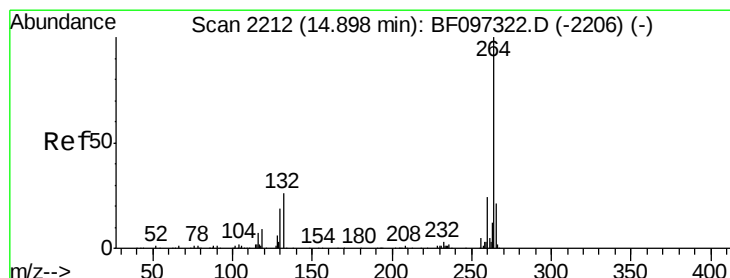
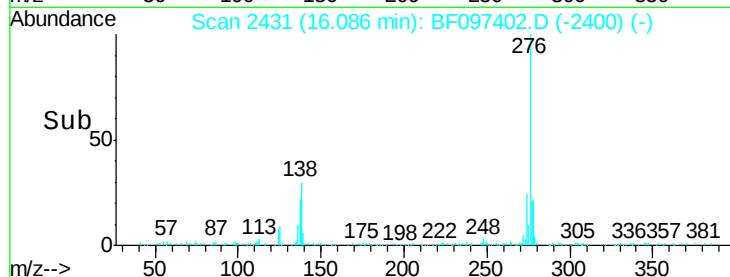
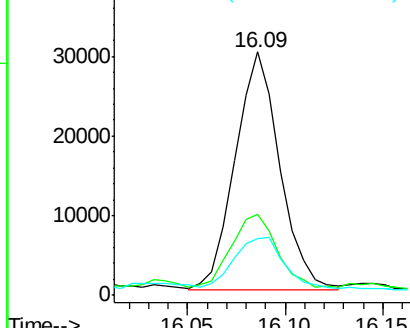
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.19 ng
 RT: 16.09 min Scan# 2431
 Delta R.T. -0.12 min
 Lab File: BF097402.D
 Acq: 5 Aug 2017 17:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.3	27.8	41.6
277	25.2	20.2	30.4

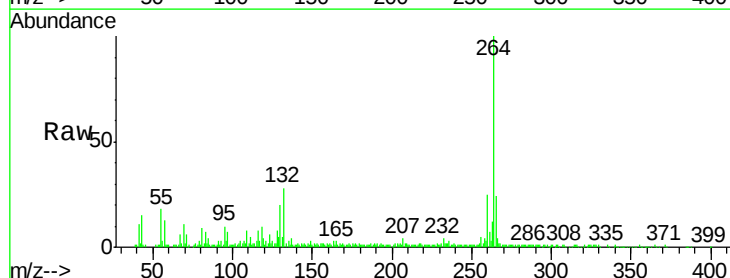


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

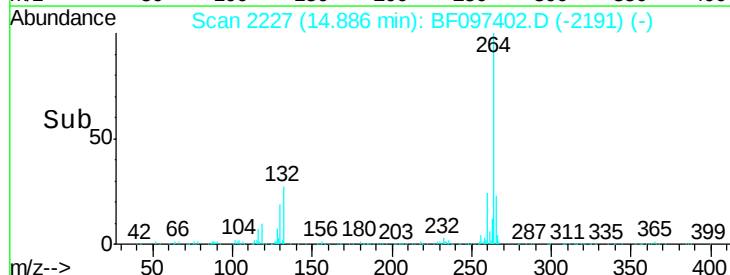
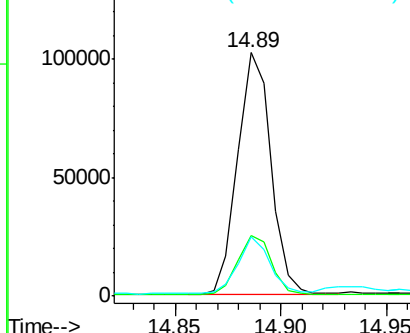


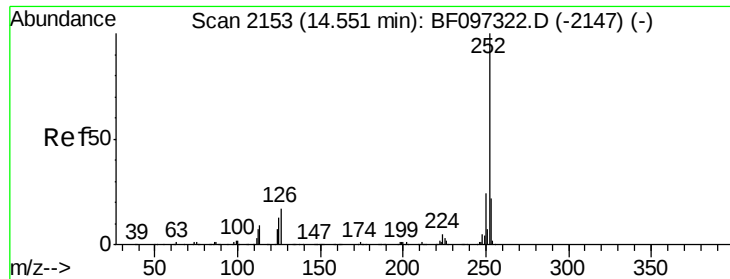
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.89 min Scan# 2227
 Delta R.T. -0.09 min
 Lab File: BF097402.D
 Acq: 5 Aug 2017 17:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	24.2	17.2	25.8



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





#87

Benzo(b)fluoranthene

Concen: 24.02 ng

RT: 14.54 min Scan# 2168

Delta R.T. -0.08 min

Lab File: BF097402.D

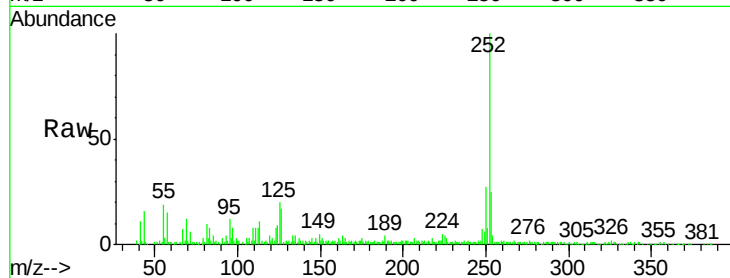
Acq: 5 Aug 2017 17:31

Instrument :

BNA_F

ClientSampleId :

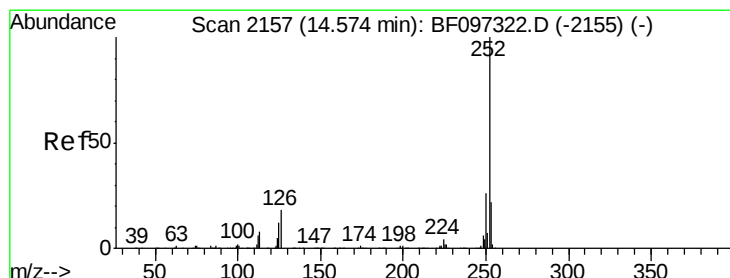
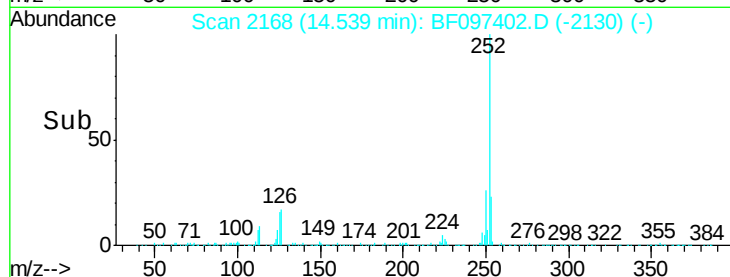
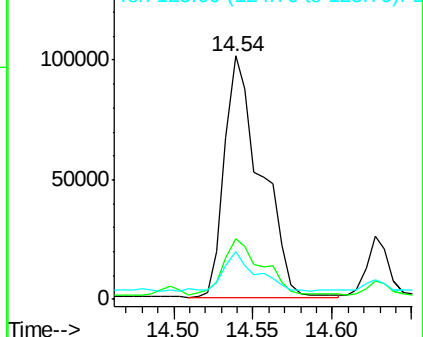
Tot Ion:252	Resp:	162323
Ion Ratio	Lower	Upper
252	100	
253	25.1	18.1 27.1
125	19.5	9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 25.21 ng

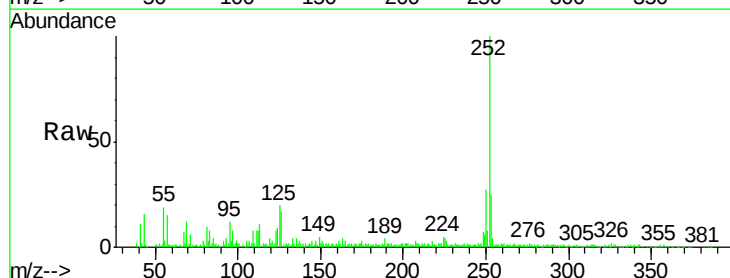
RT: 14.54 min Scan# 2168

Delta R.T. -0.11 min

Lab File: BF097402.D

Acq: 5 Aug 2017 17:31

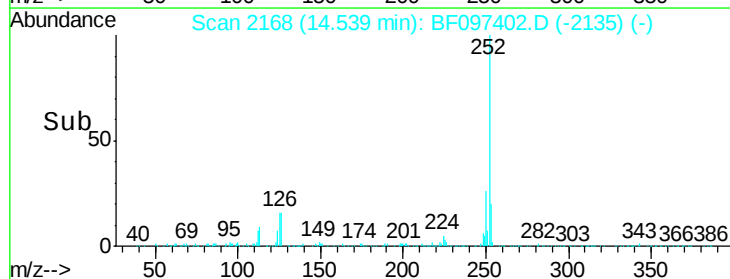
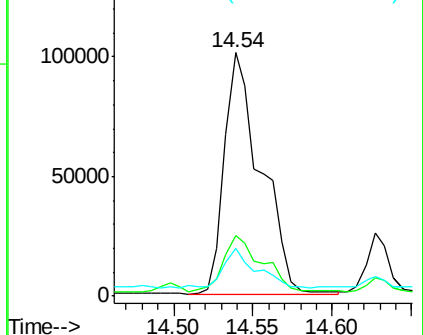
Tgt Ion:252	Resp:	162323
Ion Ratio	Lower	Upper
252	100	
253	25.1	18.4 27.6
125	19.5	13.1 19.7

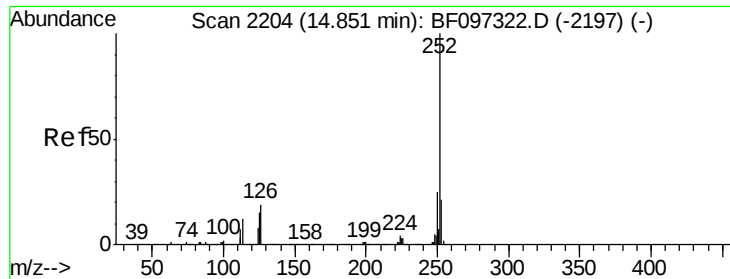


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

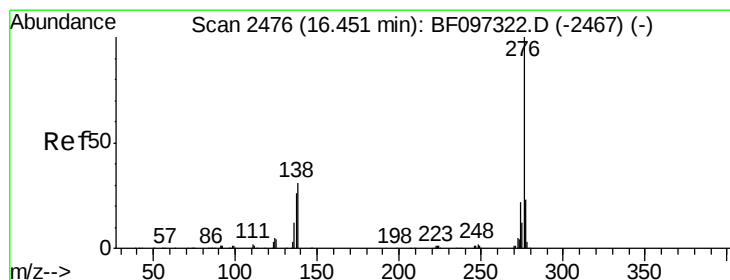
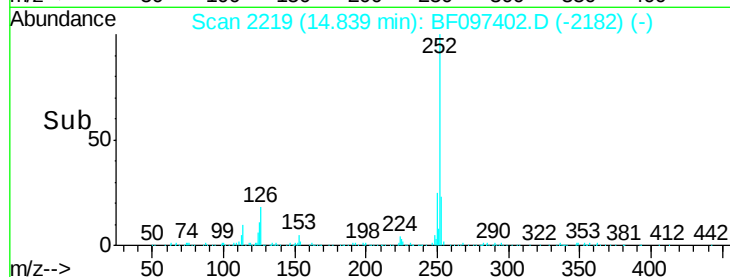
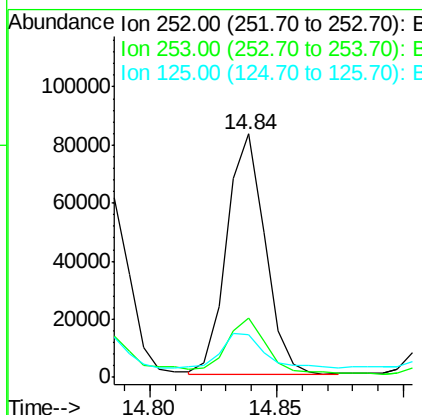
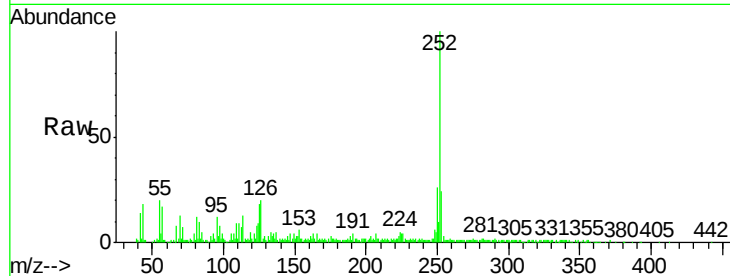




#89
Benzo(a)pyrene
Concen: 14.19 ng
RT: 14.84 min Scan# 2219
Delta R.T. -0.08 min
Lab File: BF097402.D
Acq: 5 Aug 2017 17:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 87751
Ion Ratio Lower Upper
252 100
253 24.2 17.5 26.3
125 17.5 11.0 16.4#



#91
Benzo(g,h,i)perylene
Concen: 9.00 ng
RT: 16.44 min Scan# 2491
Delta R.T. -0.13 min
Lab File: BF097402.D
Acq: 5 Aug 2017 17:31

Tgt Ion:276 Resp: 47853
Ion Ratio Lower Upper
276 100
277 26.6 18.6 28.0
138 37.2 25.4 38.0

