

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080917\
 Data File : BF097550.D
 Acq On : 10 Aug 2017 9:20
 Operator : SJ/JU
 Sample : I4677-05 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 10 13:25:35 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 07 16:02:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.40	152	116849	20.00	ng	-0.01
21) Naphthalene-d8	7.68	136	479342	20.00	ng	-0.02
38) Acenaphthene-d10	9.42	164	197814	20.00	ng	-0.02
63) Phenanthrene-d10	10.90	188	271608	20.00	ng	-0.02
75) Chrysene-d12	13.52	240	197033	20.00	ng	-0.02
86) Perylene-d12	14.86	264	182289	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.01	112	81413	10.50	ng	0.00
7) Phenol-d6	6.09	99	118127	13.35	ng	0.00
23) Nitrobenzene-d5	6.98	82	69336	8.49	ng	-0.01
41) 2,4,6-Tribromophenol	10.22	330	16703	10.69	ng	-0.02
44) 2-Fluorobiphenyl	8.76	172	119837	10.28	ng	-0.02
78) Terphenyl-d14	12.47	244	57619	5.96	ng	-0.02

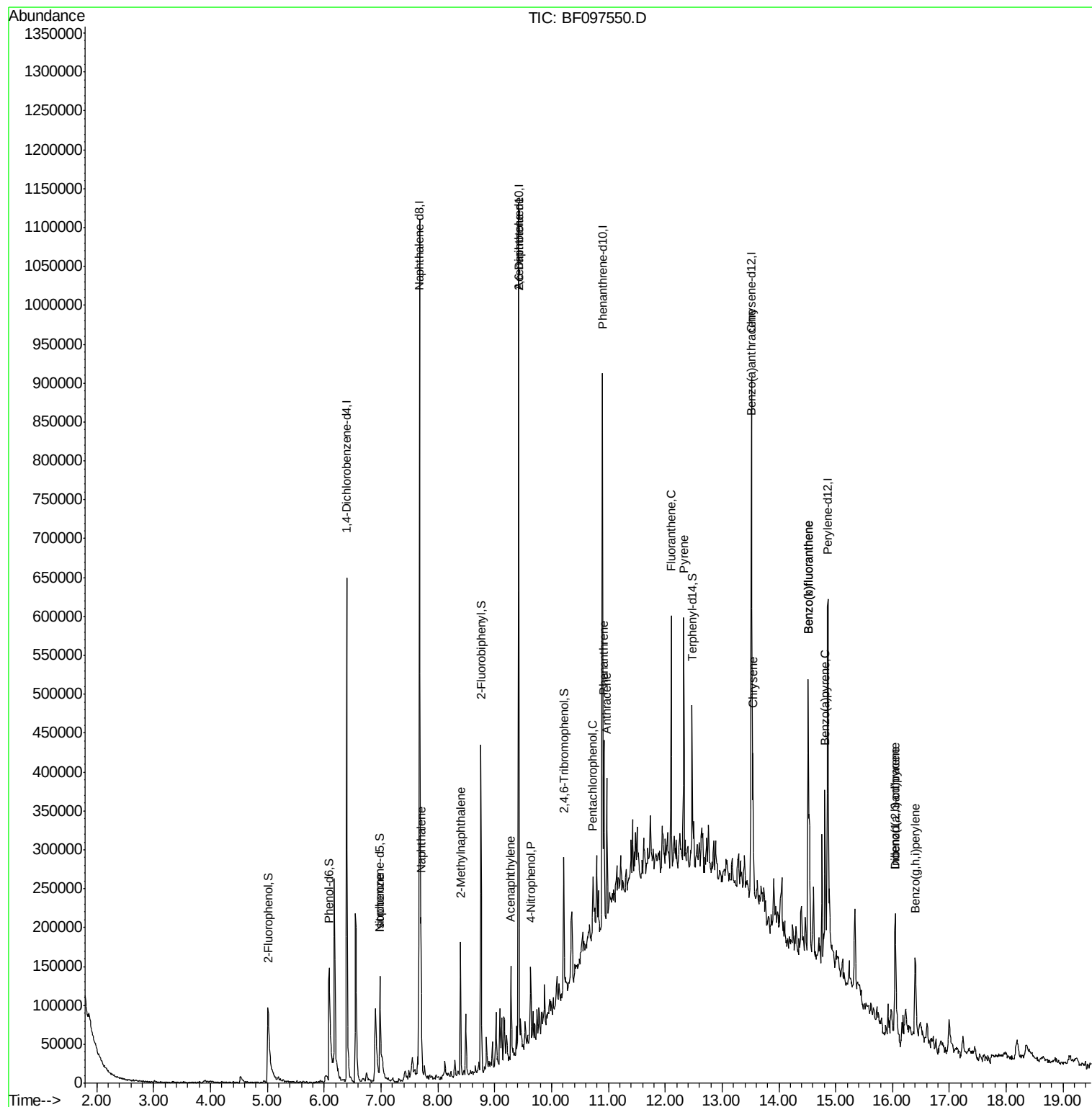
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	6.98	82	69336	4.333	ng	# 67
31) Naphthalene	7.70	128	97131	4.299	ng	99
37) 2-Methylnaphthalene	8.40	142	48635	3.400	ng	96
48) Acenaphthylene	9.29	152	43410	2.275	ng	98
50) 2,6-Dinitrotoluene	9.42	165	26805	8.413	ng	# 34
55) 4-Nitrophenol	9.63	139	8950	3.806	ng	# 39
69) Pentachlorophenol	10.73	266	11495	9.140	ng	95
70) Phenanthrene	10.92	178	89395	6.143	ng	98
71) Anthracene	10.97	178	70788	4.749	ng	99
74) Fluoranthene	12.10	202	127981	8.977	ng	99
77) Pyrene	12.33	202	133115	8.252	ng	97
80) Benzo(a)anthracene	13.51	228	76274	5.983	ng	94
82) Chrysene	13.54	228	73841	5.932	ng	98
85) Indeno(1,2,3-cd)pyrene	16.04	276	72921	6.831	ng	96
87) Benzo(b)fluoranthene	14.52	252	184151	16.805	ng	# 95
88) Benzo(k)fluoranthene	14.52	252	184151	17.636	ng	97
89) Benzo(a)pyrene	14.82	252	84523	8.428	ng	98
90) Dibenzo(a,h)anthracene	16.04	278	17106	2.080	ng	# 73
91) Benzo(a,h,i)perylene	16.40	276	65775	7.627	ng	95

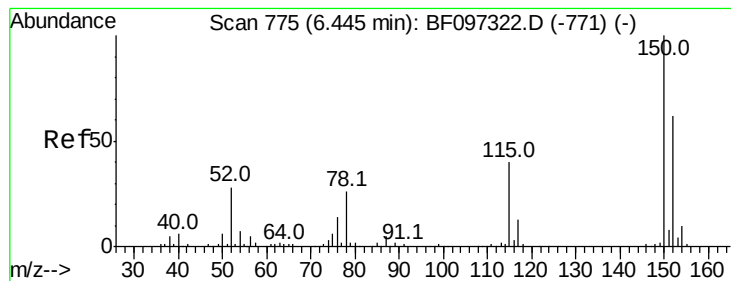
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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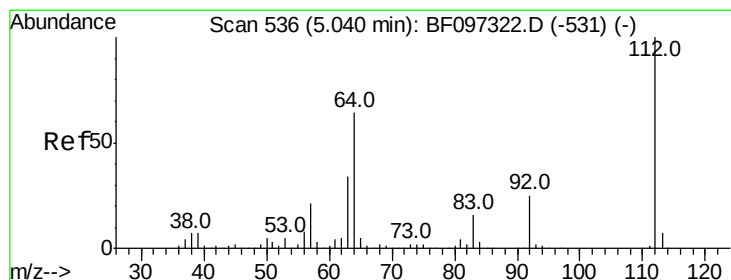
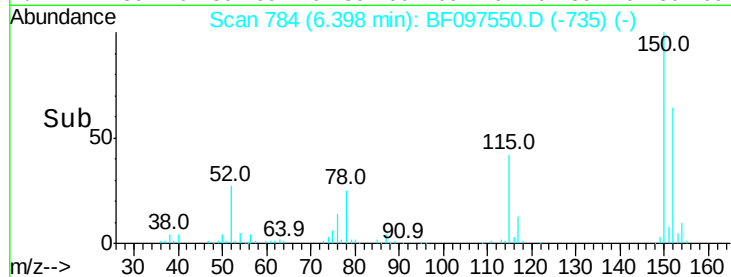
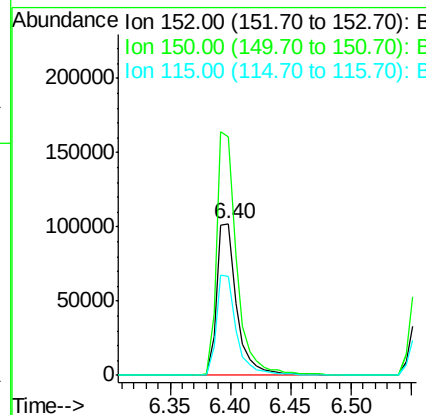
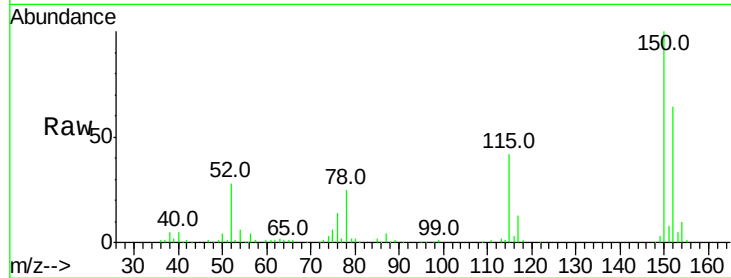


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.40 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Instrument :
BNA_F
ClientSampled :

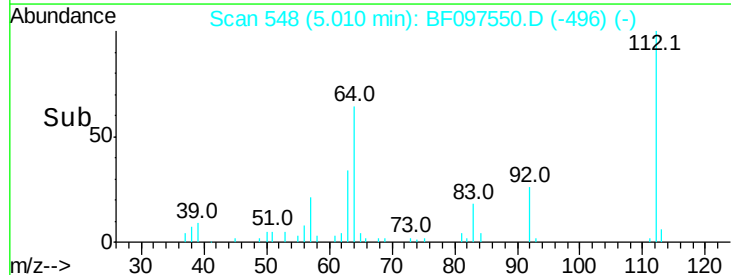
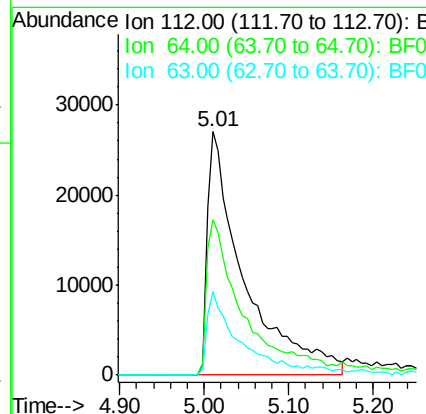
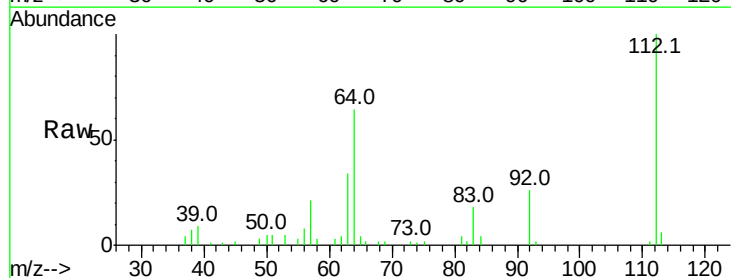
Tot Ion:152 Resp: 116849
Ion Ratio Lower Upper
152 100
150 156.5 126.2 189.2
115 65.1 52.2 78.2

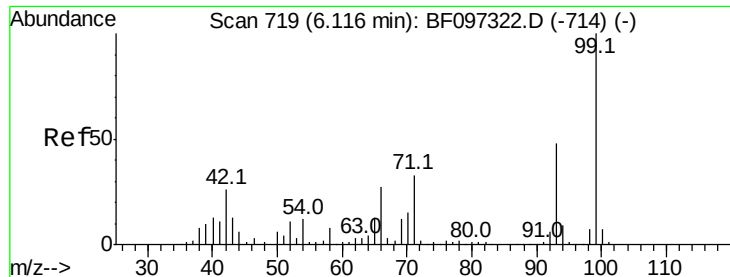


#5

2-Fluorophenol
Concen: 10.503 ng
RT: 5.01 min Scan# 548
Delta R.T. 0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion:112 Resp: 81413
Ion Ratio Lower Upper
112 100
64 63.6 46.0 69.0
63 34.4 23.4 35.0





#7

Phenol-d6

Concen: 13.349 ng

RT: 6.09 min Scan# 731

Delta R.T. 0.00 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

ClientSampleId :

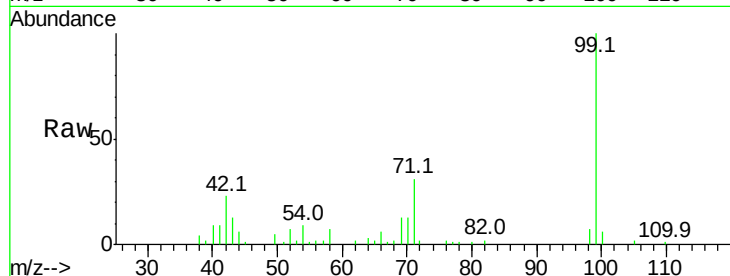
Tot Ion: 99 Resp: 118127

Ion Ratio Lower Upper

99 100

42 23.1 13.5 20.3#

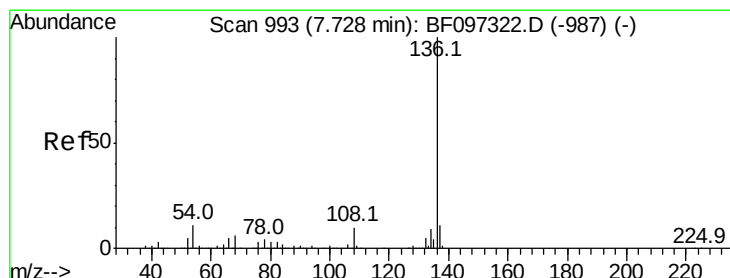
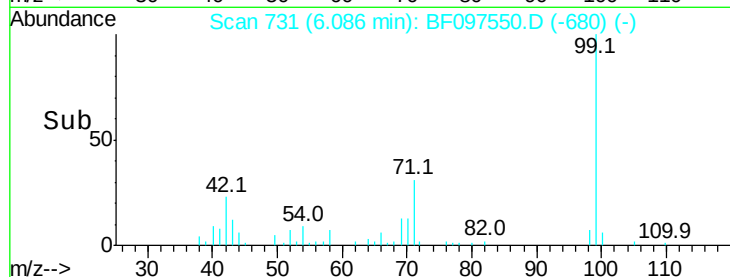
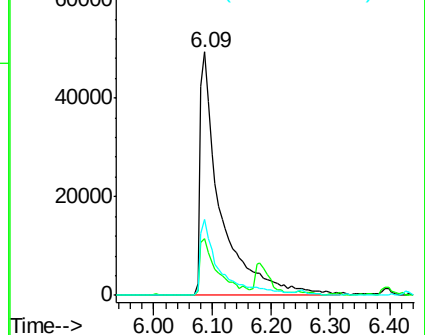
71 31.1 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.68 min Scan# 1002

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Tgt Ion: 136 Resp: 479342

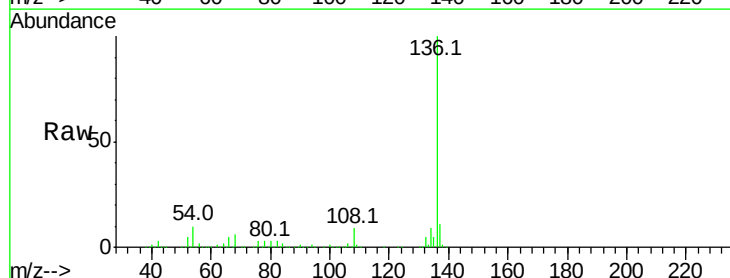
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 10.3 4.9 7.3#

68 5.7 4.1 6.1

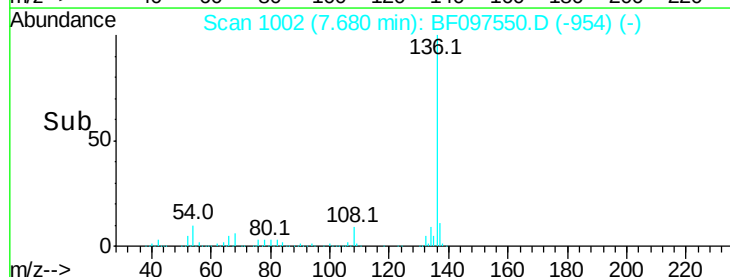
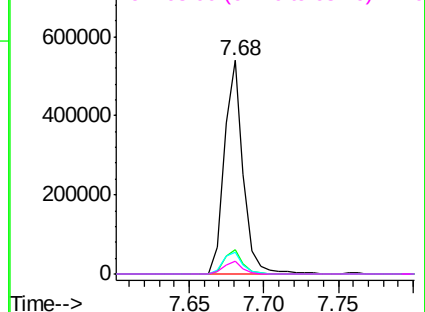


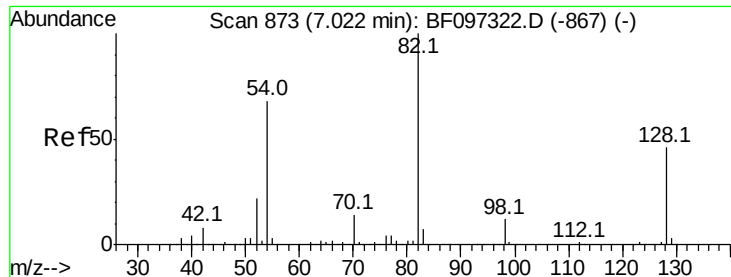
Abundance Ion 136.00 (135.70 to 136.70): E

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

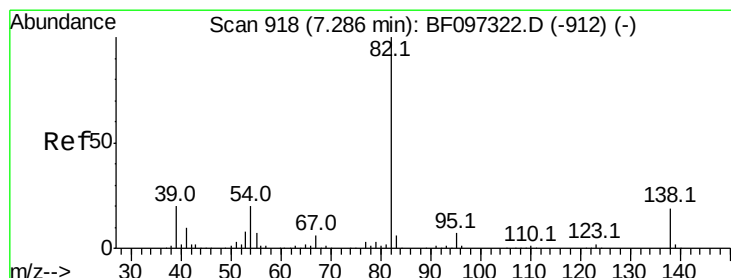
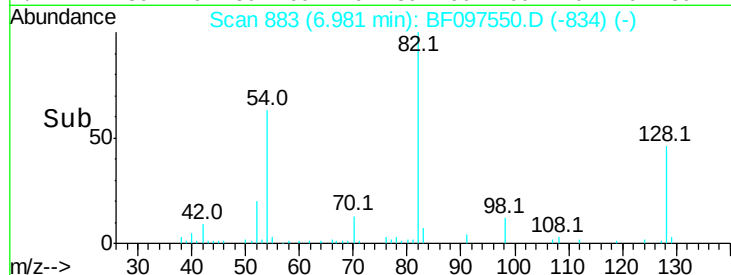
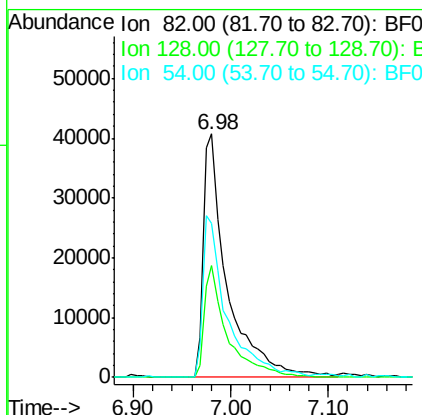
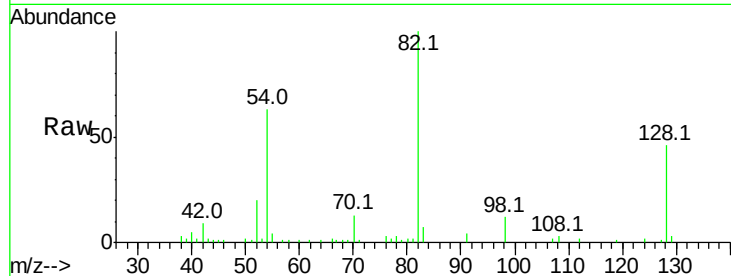




#23
 Nitrobenzene-d5
 Concen: 8.486 ng
 RT: 6.98 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

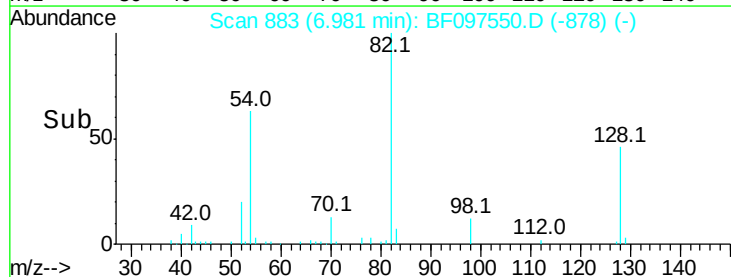
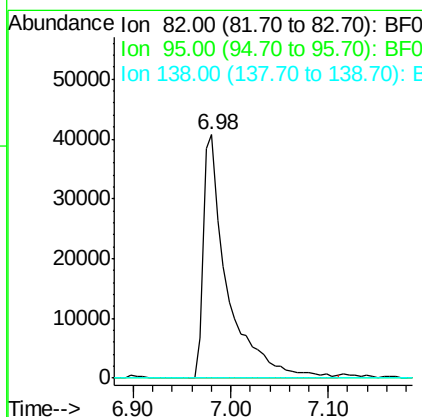
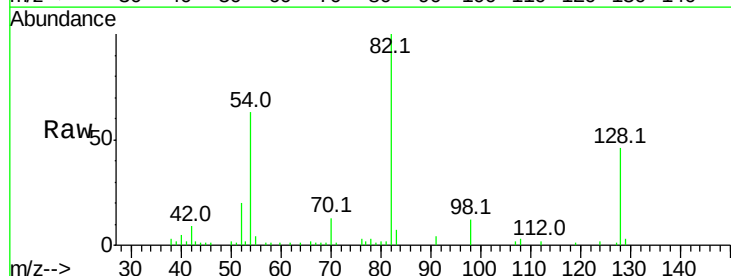
Instrument :
 BNA_F
 ClientSampled :

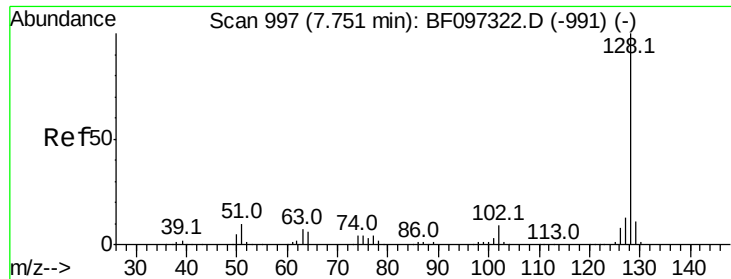
Tot Ion	82	Resp	69336
Ion Ratio	Lower	Upper	
82	100		
128	45.8	34.0	51.0
54	63.2	42.2	63.2



#25
 Isophorone
 Concen: 4.333 ng
 RT: 6.98 min Scan# 883
 Delta R.T. -0.27 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Tgt Ion	82	Resp	69336
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.3	7.9#
138	0.0	13.1	19.7#

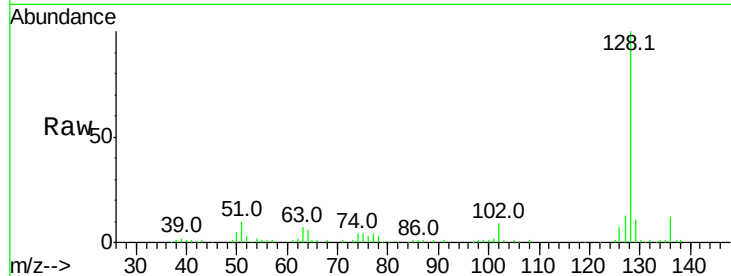




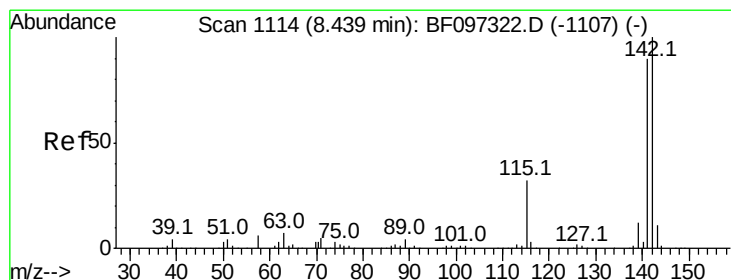
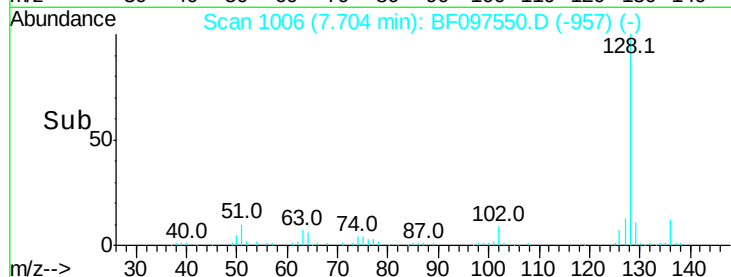
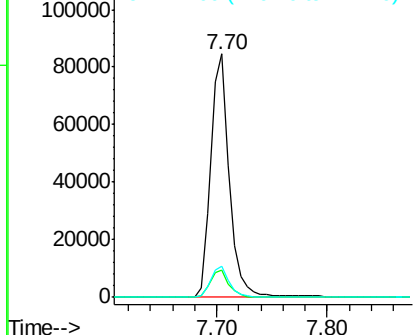
#31
Naphthalene
Concen: 4.299 ng
RT: 7.70 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Instrument :
BNA_F
ClientSampled :

Tot Ion:128 Resp: 97131
Ion Ratio Lower Upper
128 100
129 11.1 9.0 13.6
127 12.8 10.8 16.2

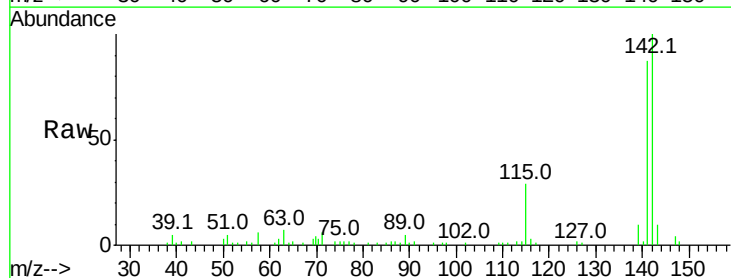


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

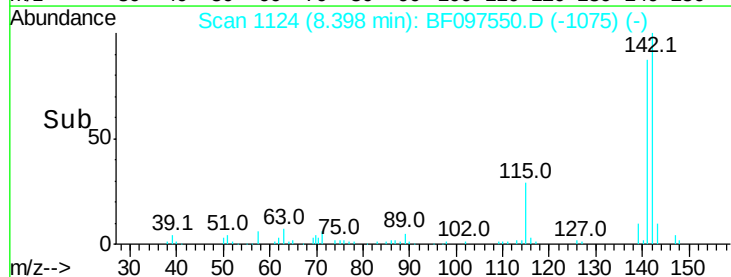
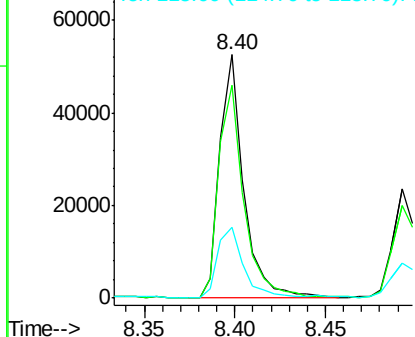


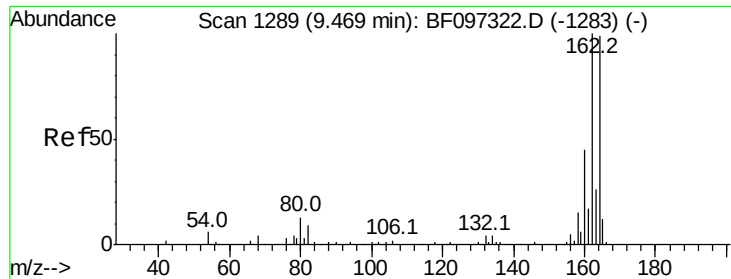
#37
2-Methylnaphthalene
Concen: 3.400 ng
RT: 8.40 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion:142 Resp: 48635
Ion Ratio Lower Upper
142 100
141 87.2 71.3 106.9
115 29.1 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

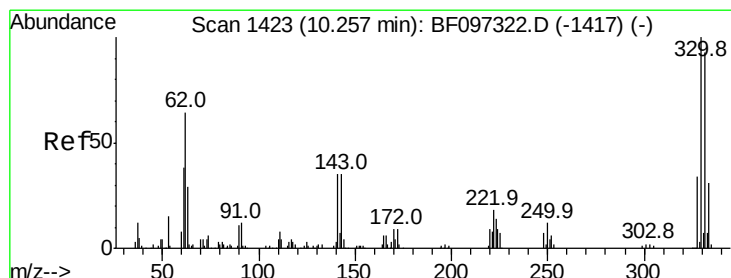
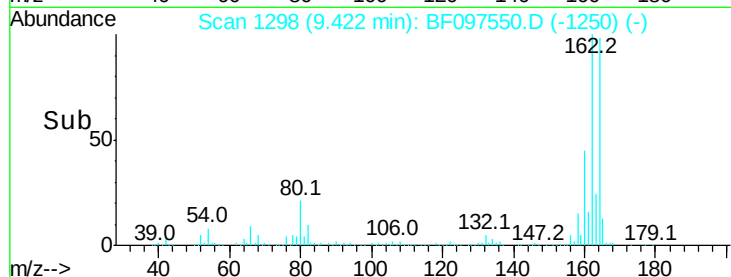
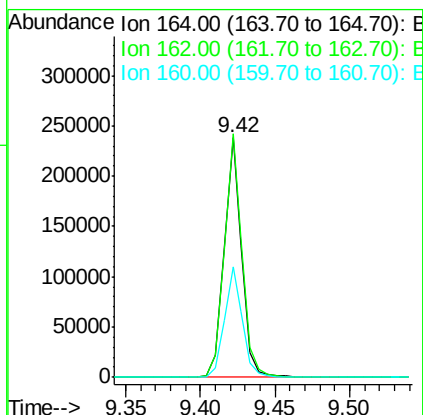
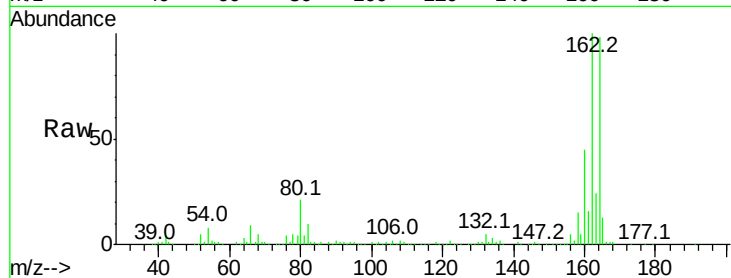




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.42 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

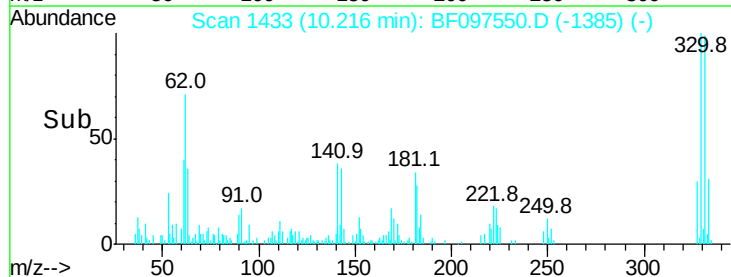
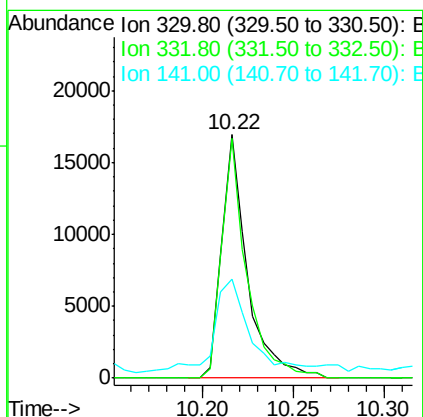
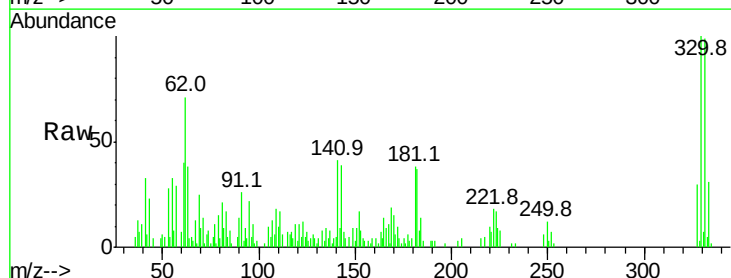
Instrument :
 BNA_F
 ClientSampleId :

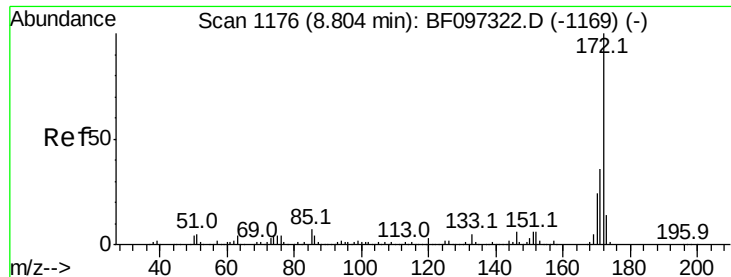
Tot Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.6	123.8
160	46.2	36.2	54.2



#41
 2,4,6-Tribromophenol
 Concen: 10.687 ng
 RT: 10.22 min Scan# 1433
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.6	115.0
141	53.0	31.4	47.2#

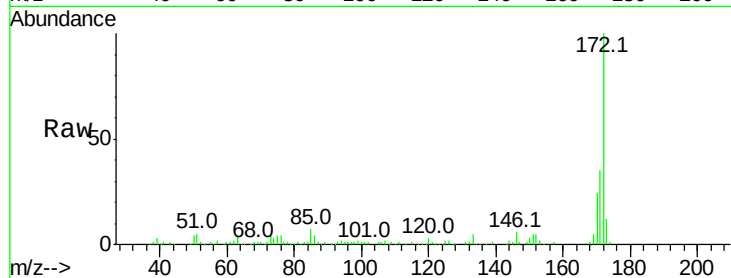




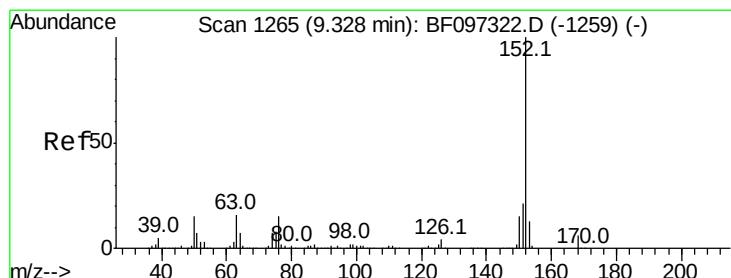
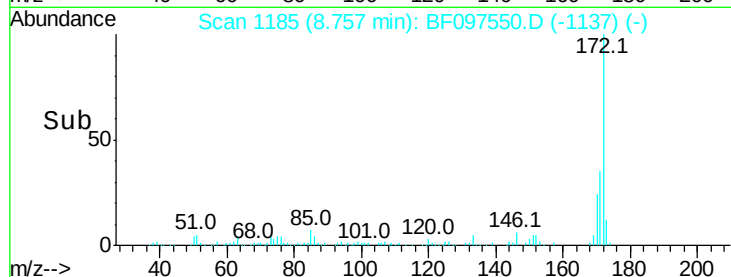
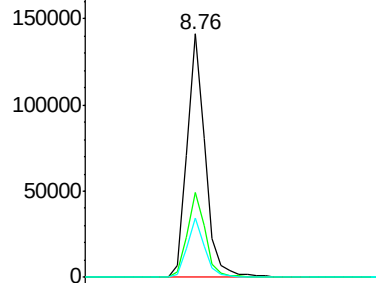
#44
 2-Fluorobiphenyl
 Concen: 10.281 ng
 RT: 8.76 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	172	Resp:	119837
Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.6	44.4
170	24.2	19.8	29.8

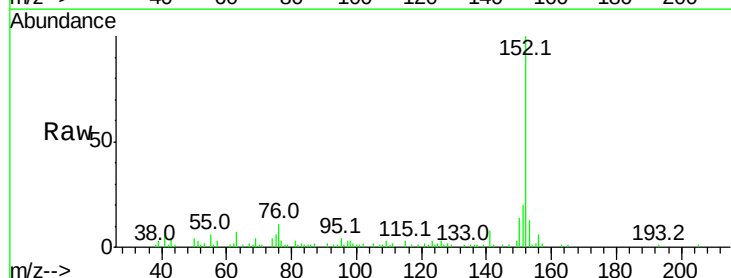


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

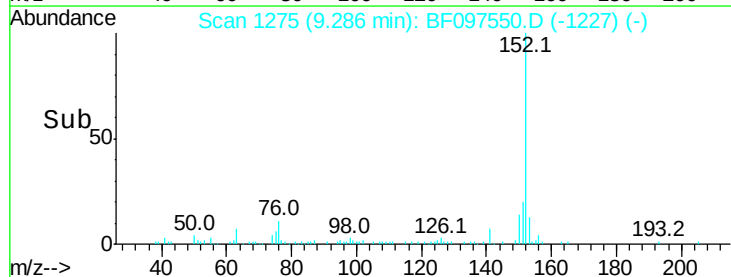
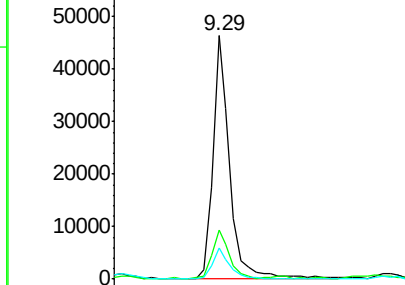


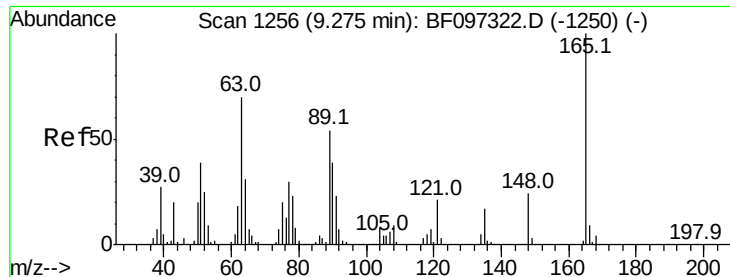
#48
 Acenaphthylene
 Concen: 2.275 ng
 RT: 9.29 min Scan# 1275
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Tgt Ion:	152	Resp:	43410
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.8	25.2
153	13.0	10.8	16.2



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





#50

2,6-Dinitrotoluene

Concen: 8.413 ng

RT: 9.42 min Scan# 1298

Delta R.T. 0.17 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

ClientSampleId :

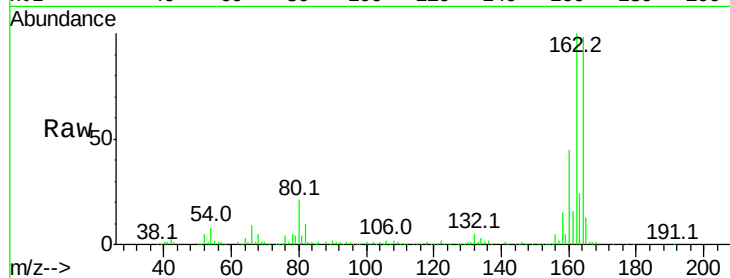
Tot Ion:165 Resp: 26805

Ion Ratio Lower Upper

165 100

63 2.5 34.3 51.5#

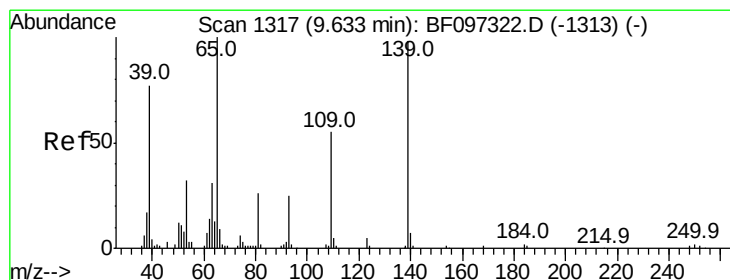
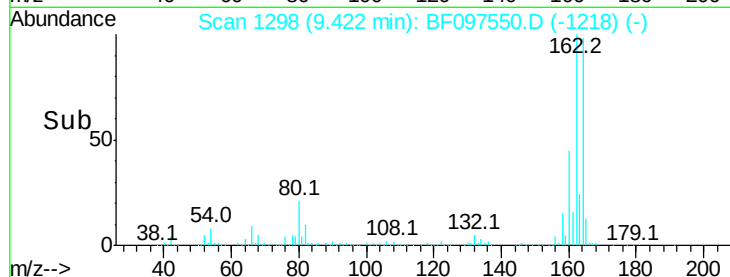
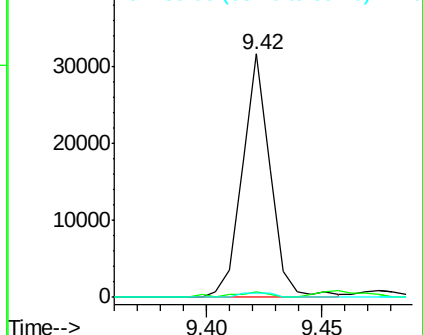
89 1.5 37.1 55.7#



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



#55

4-Nitrophenol

Concen: 3.806 ng

RT: 9.63 min Scan# 1334

Delta R.T. 0.01 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

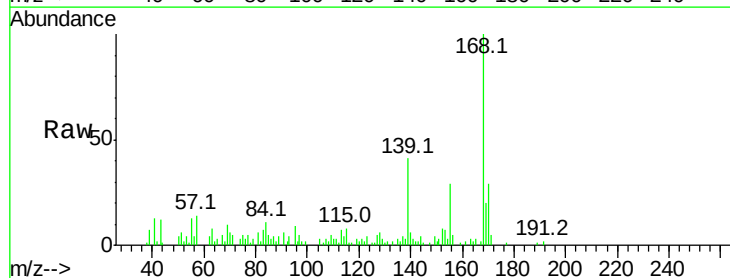
Tgt Ion:139 Resp: 8950

Ion Ratio Lower Upper

139 100

109 12.4 34.1 74.1#

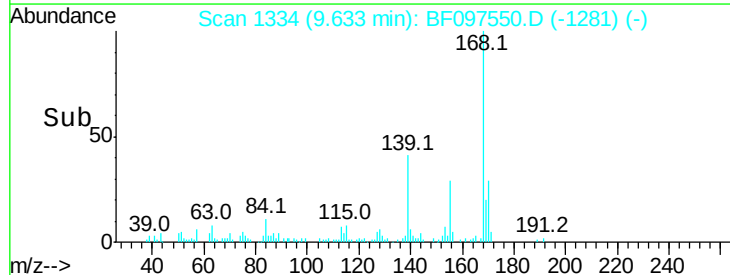
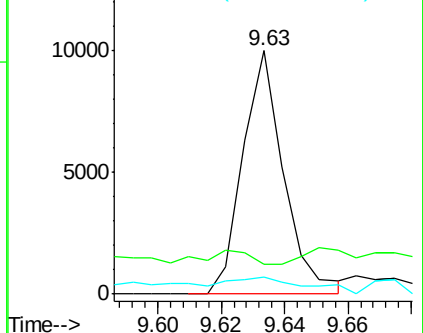
65 7.1 31.4 71.4#

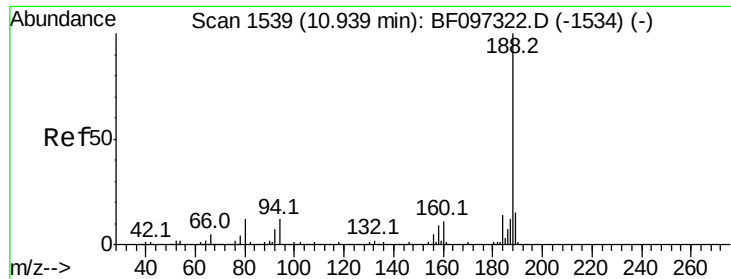


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

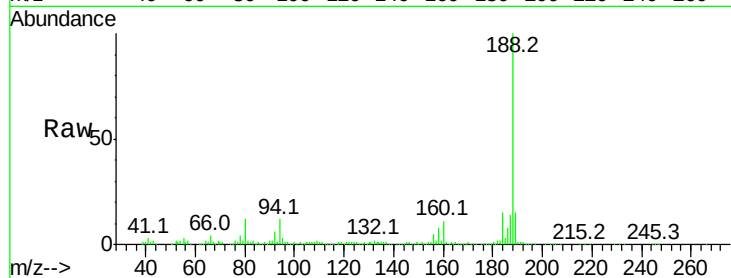




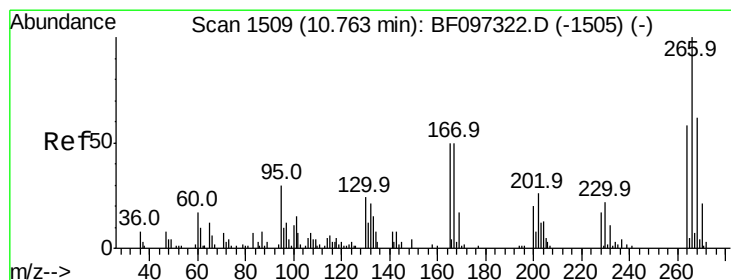
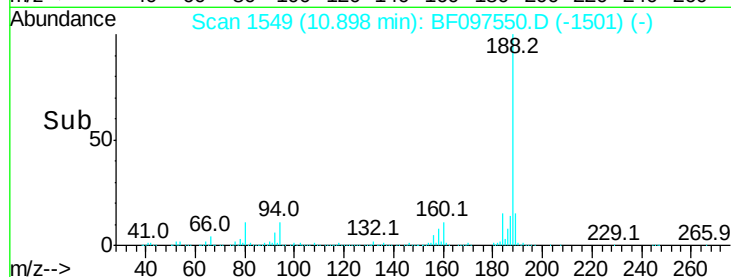
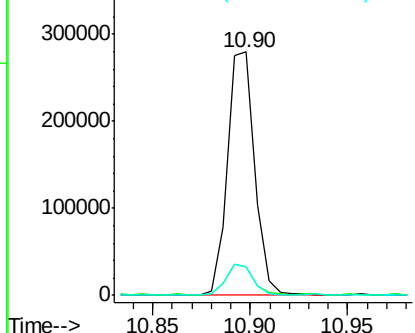
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.90 min Scan# 1549
Delta R.T. -0.02 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 271608
Ion Ratio Lower Upper
188 100
94 11.6 9.4 14.2
80 11.8 10.2 15.2

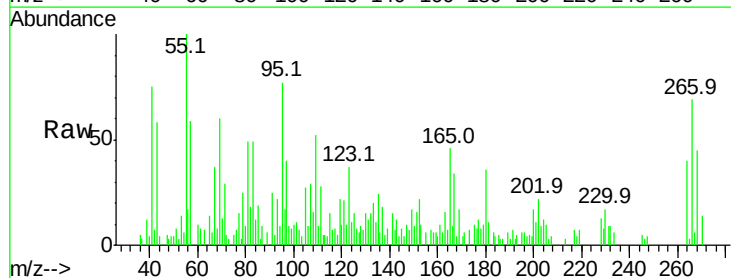


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

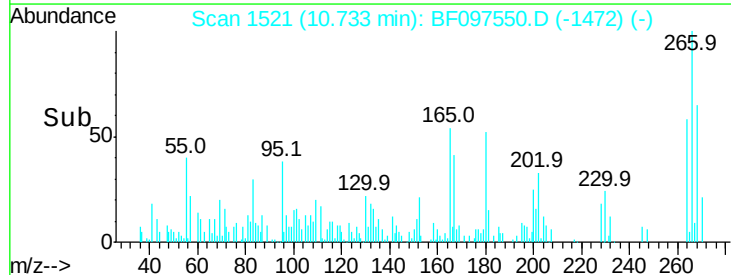
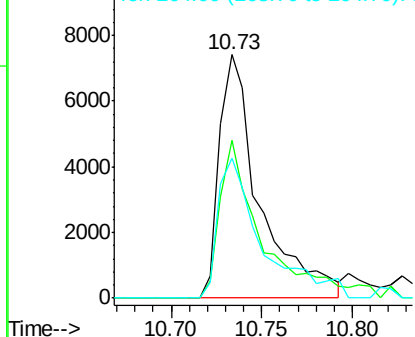


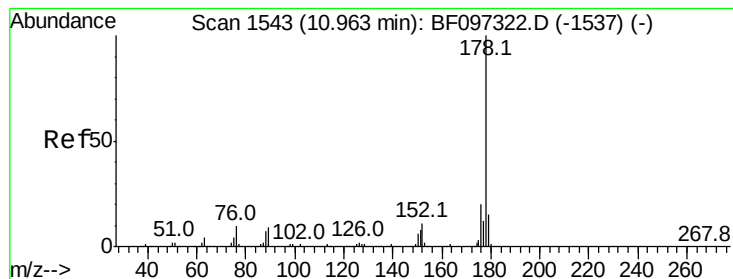
#69
Pentachlorophenol
Concen: 9.140 ng
RT: 10.73 min Scan# 1521
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion:266 Resp: 11495
Ion Ratio Lower Upper
266 100
268 64.9 51.1 76.7
264 57.7 51.7 77.5



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#70

Phenanthrene

Concen: 6.143 ng

RT: 10.92 min Scan# 1553

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

ClientSampleId :

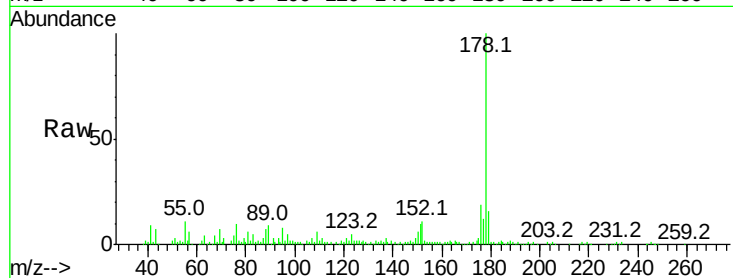
Tot Ion:178 Resp: 89395

Ion Ratio Lower Upper

178 100

176 19.2 16.2 24.4

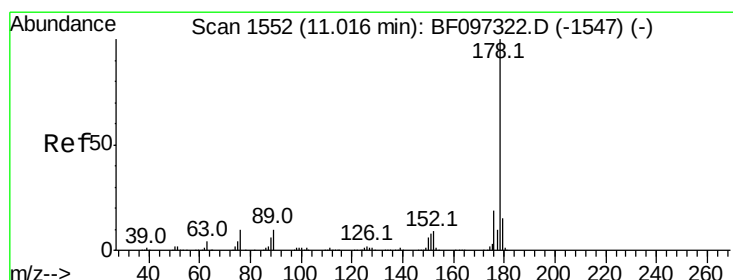
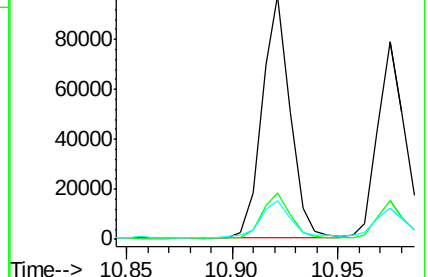
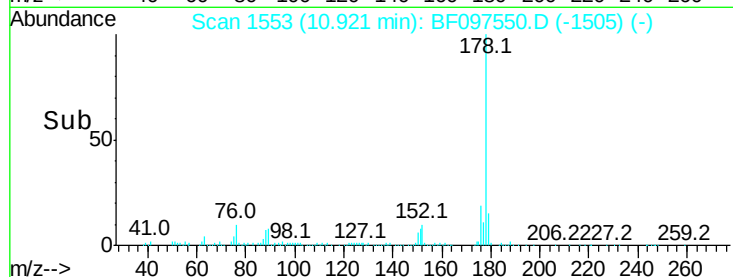
179 16.1 12.6 19.0



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: 4.749 ng

RT: 10.97 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

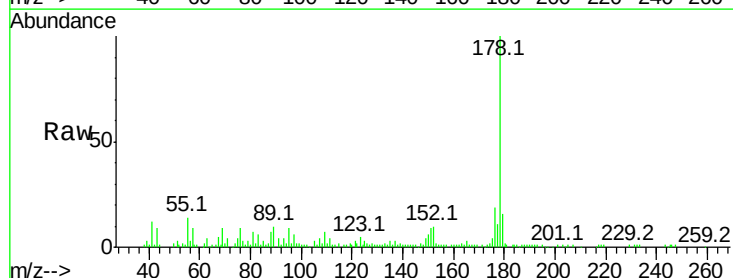
Tgt Ion:178 Resp: 70788

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

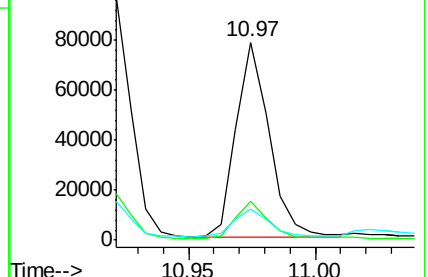
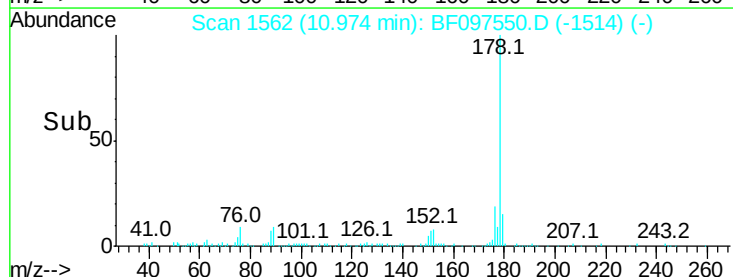
179 15.7 12.7 19.1

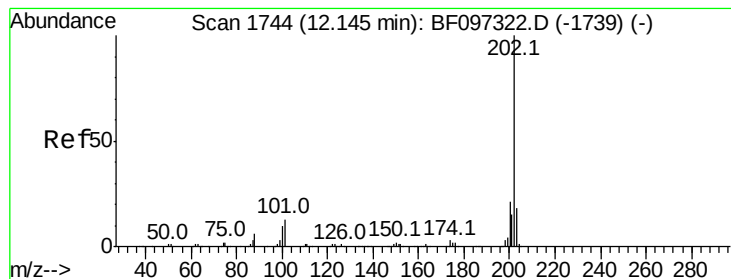


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 8.977 ng

RT: 12.10 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

ClientSampleId :

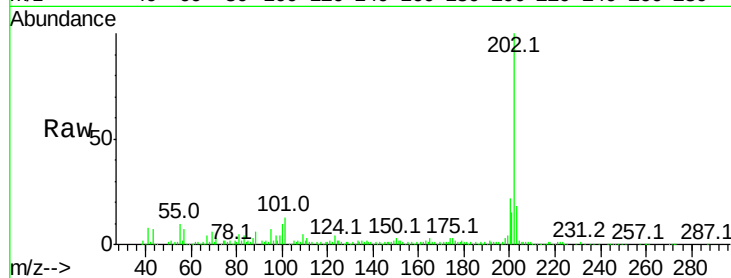
Tot Ion:202 Resp: 127981

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.2

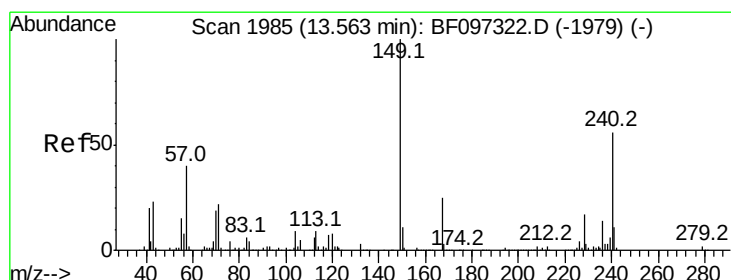
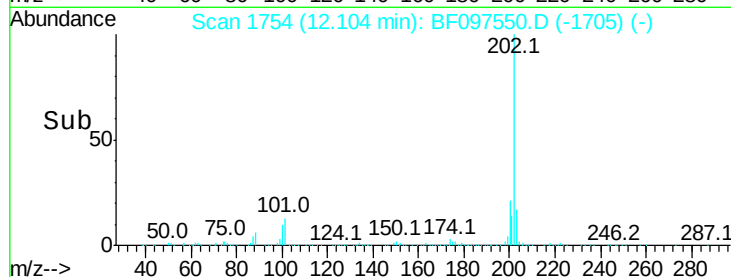
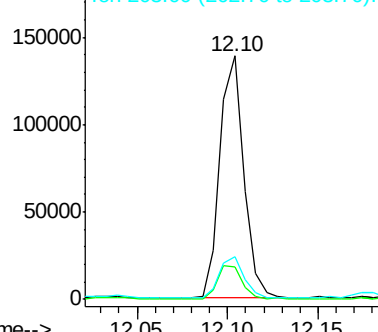
203 17.8 0.0 38.1



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: 20.000 ng

RT: 13.52 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

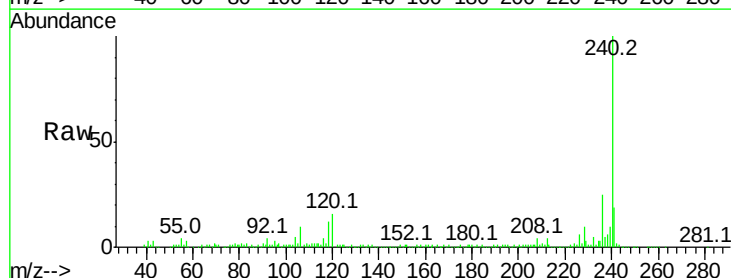
Tgt Ion:240 Resp: 197033

Ion Ratio Lower Upper

240 100

120 15.9 5.8 8.8#

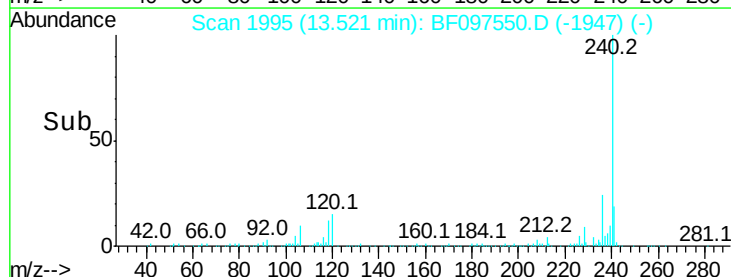
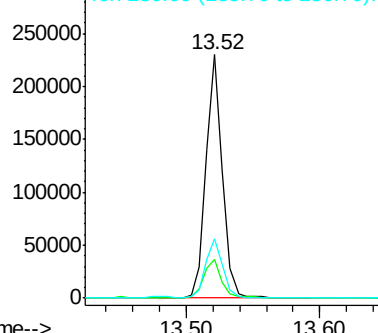
236 24.6 20.5 30.7

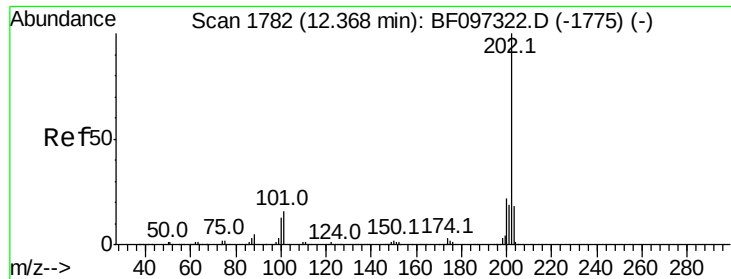


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 8.252 ng

RT: 12.33 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

ClientSampleId :

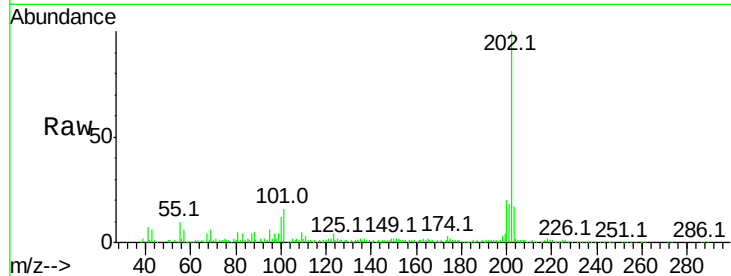
Tot Ion:202 Resp: 133115

Ion Ratio Lower Upper

202 100

200 19.6 17.6 26.4

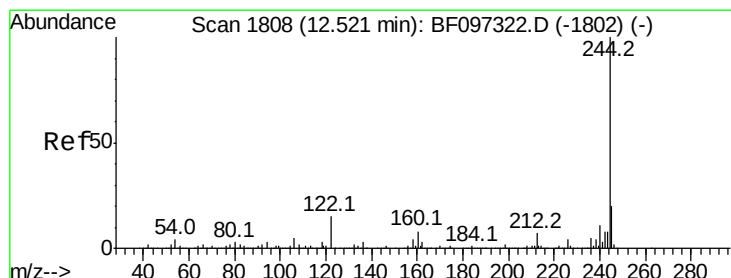
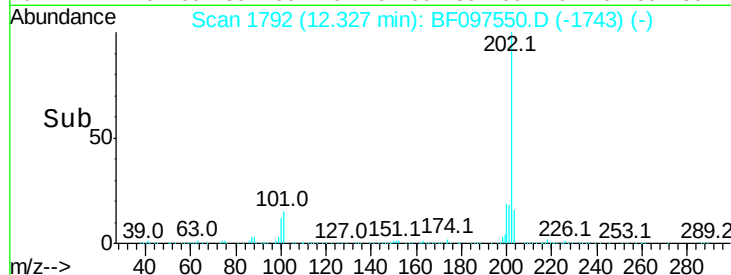
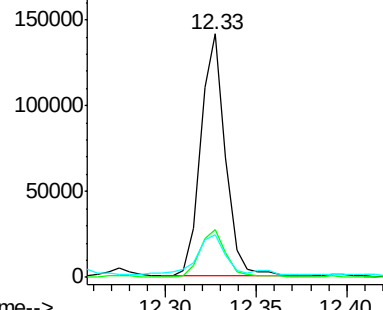
203 17.4 14.4 21.6



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: 5.962 ng

RT: 12.47 min Scan# 1817

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

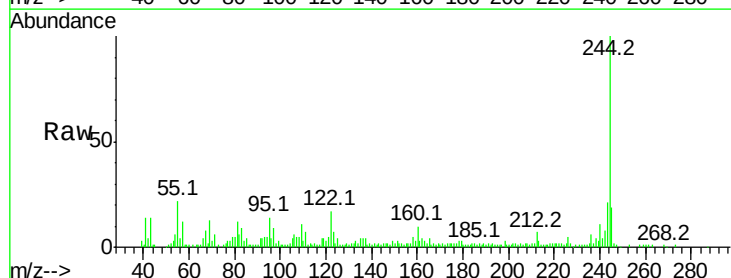
Tgt Ion:244 Resp: 57619

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

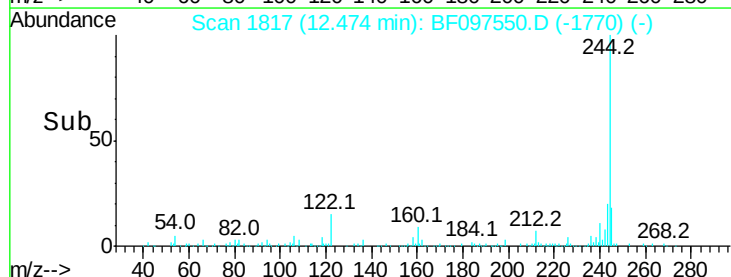
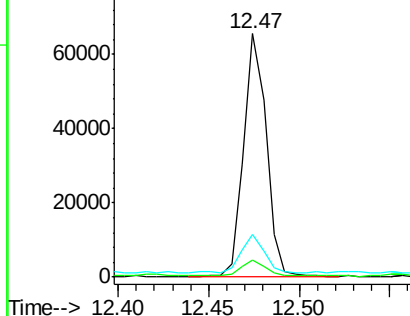
122 17.3 10.3 15.5#

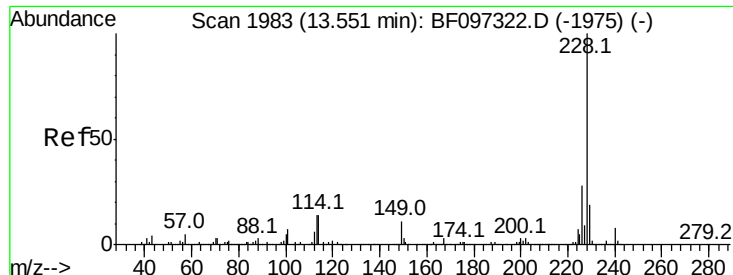


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.983 ng

RT: 13.51 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF097550.D

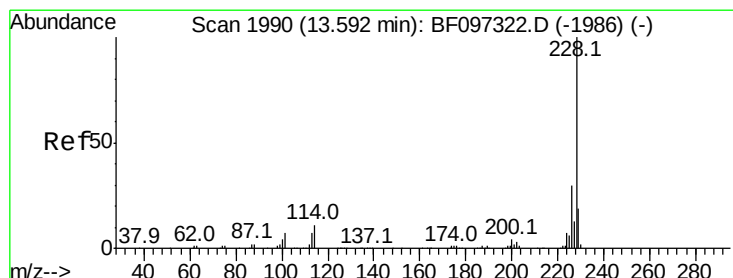
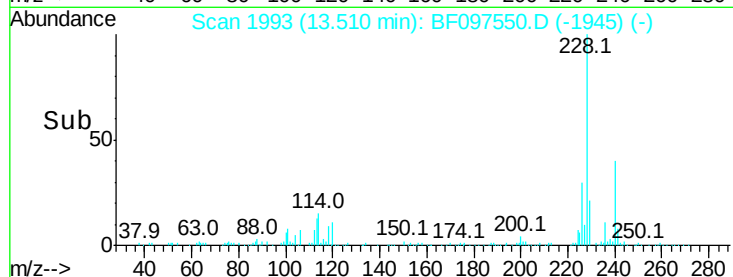
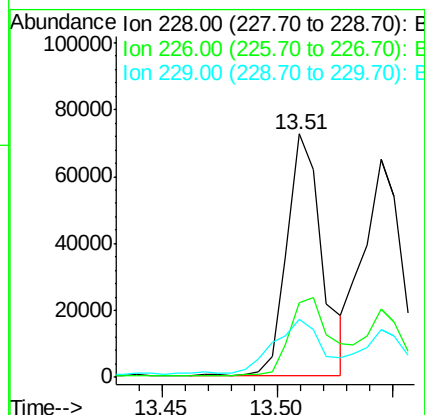
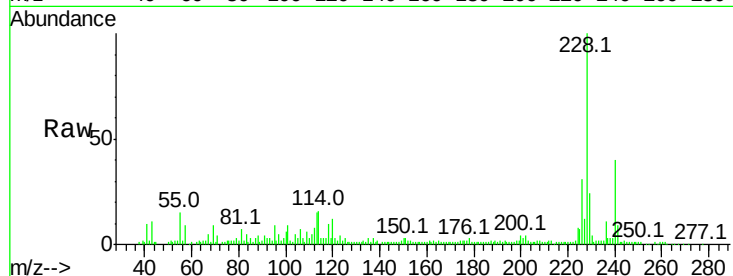
Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

ClientSampled :

Tot Ion:228	Resp:	76274
Ion	Ratio	Lower Upper
228	100	
226	30.7	22.6 33.8
229	23.7	16.3 24.5



#82

Chrysene

Concen: 5.932 ng

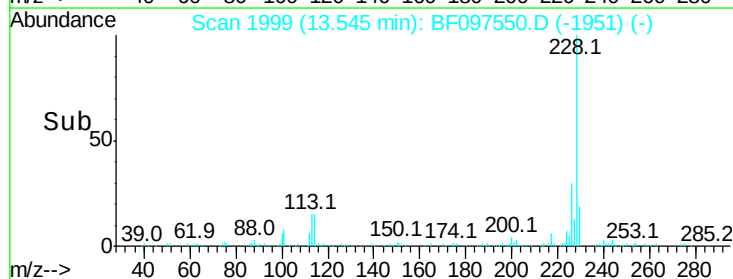
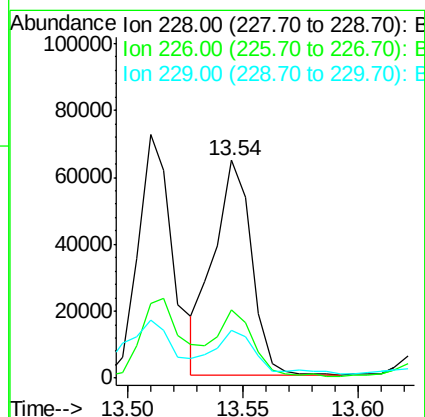
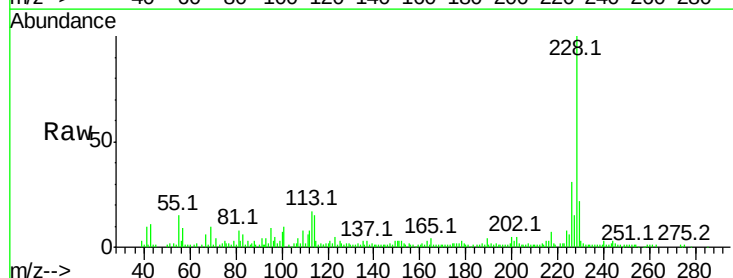
RT: 13.54 min Scan# 1999

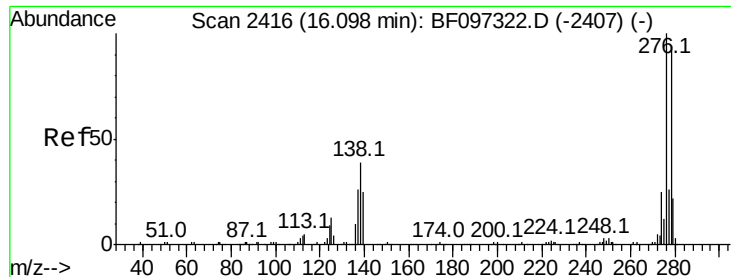
Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Tgt Ion:228	Resp:	73841
Ion	Ratio	Lower Upper
228	100	
226	31.5	24.9 37.3
229	22.0	15.8 23.6

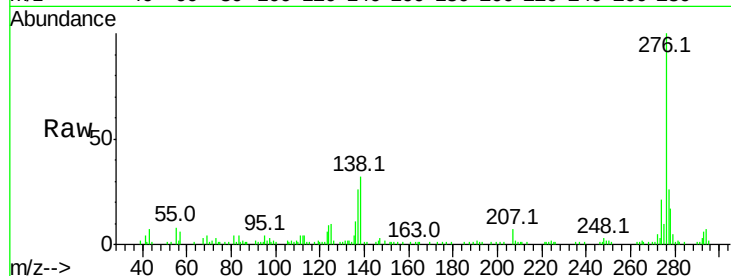




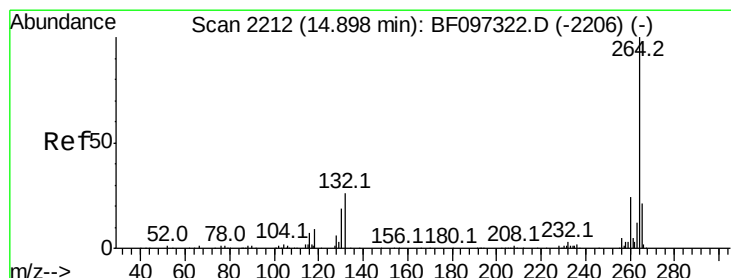
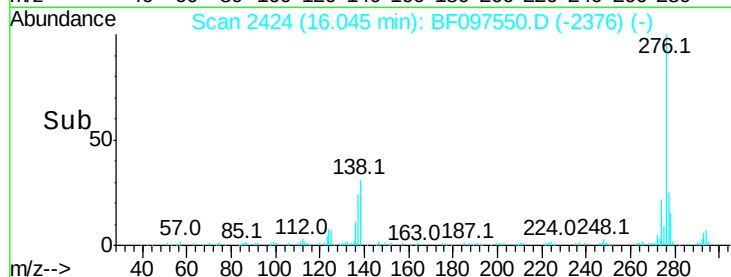
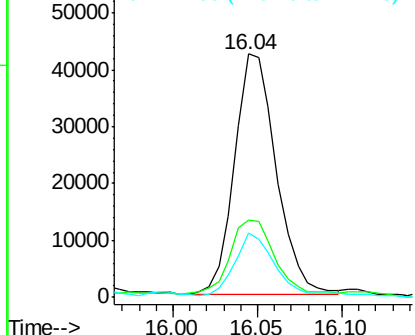
#85
Indeno(1,2,3-cd)pyrene
Concen: 6.831 ng
RT: 16.04 min Scan# 2424
Delta R.T. -0.02 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	32.3	27.8	41.6
277	27.6	20.2	30.4

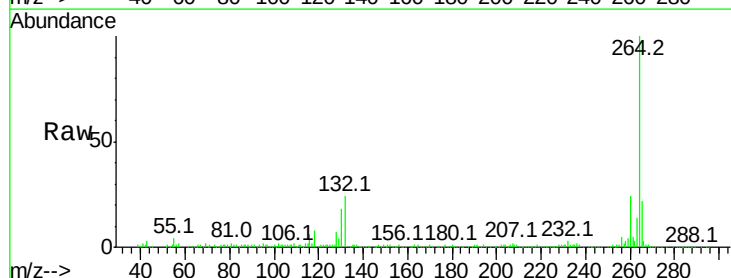


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

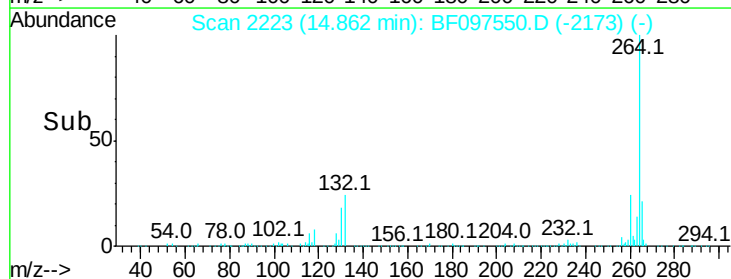
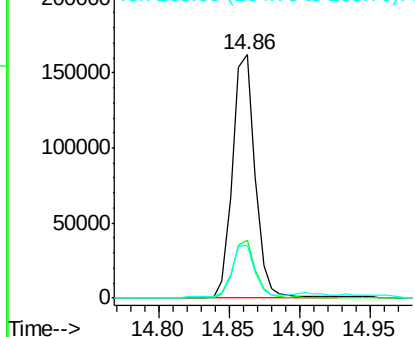


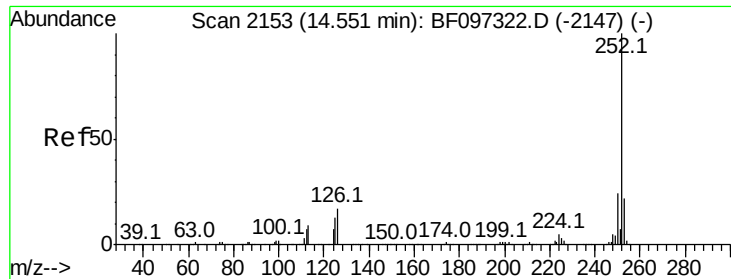
#86
Perylene-d12
Concen: 20.000 ng
RT: 14.86 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	21.7	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

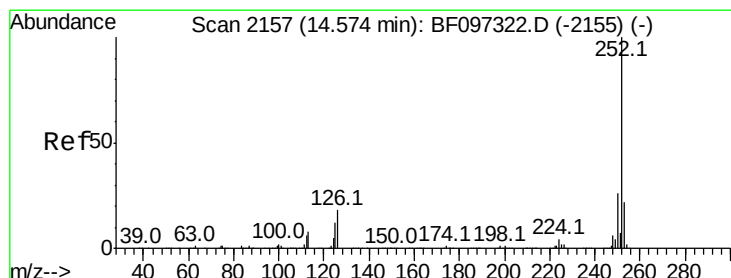
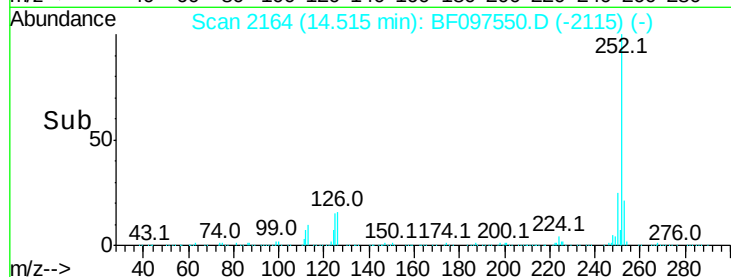
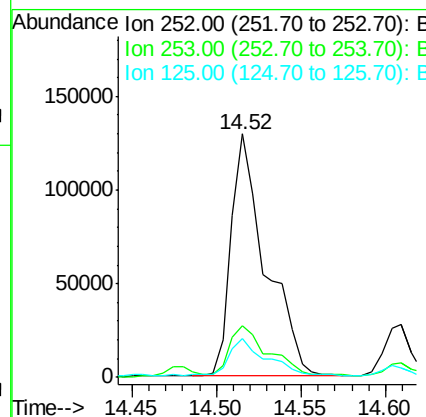
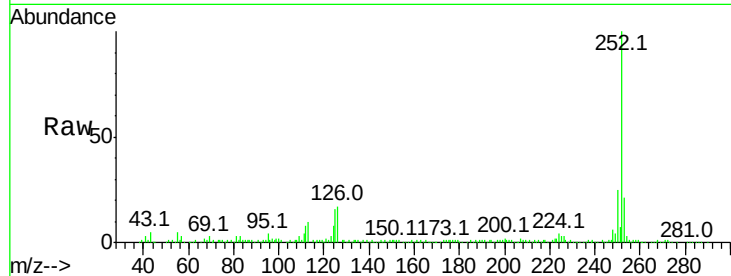




#87
Benzo(b)fluoranthene
Concen: 16.805 ng
RT: 14.52 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

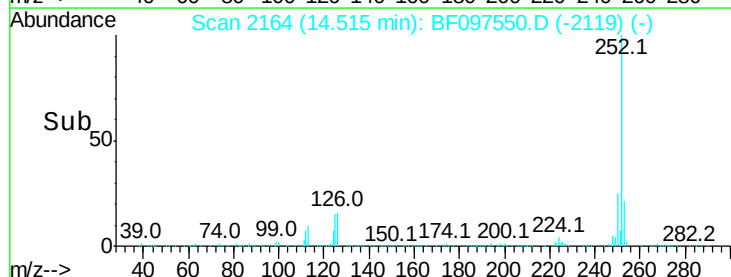
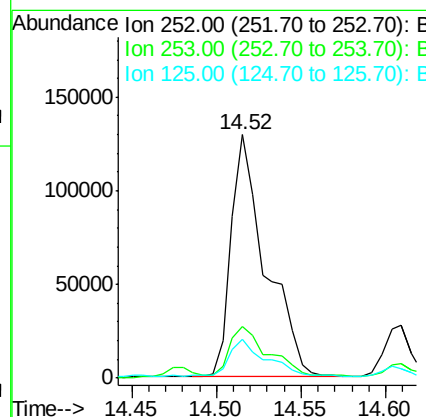
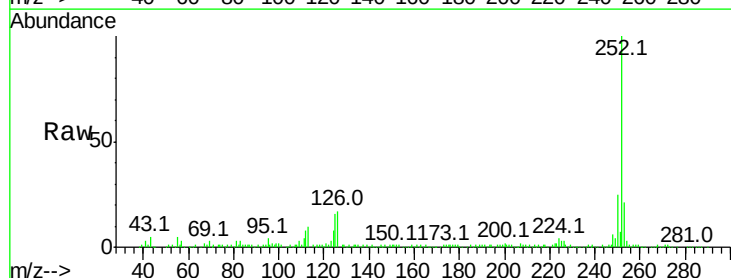
Instrument :
BNA_F
ClientSampleId :

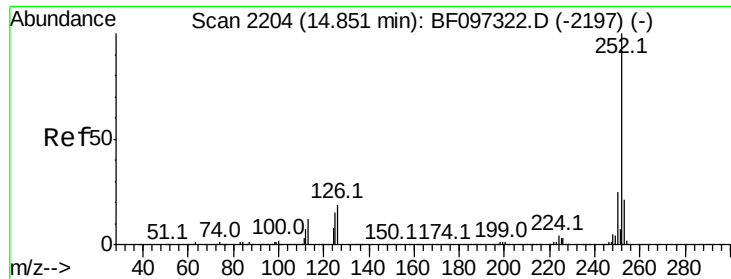
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.1	27.1
125	15.7	9.8	14.8#



#88
Benzo(k)fluoranthene
Concen: 17.636 ng
RT: 14.52 min Scan# 2164
Delta R.T. -0.04 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.4	27.6
125	15.7	13.1	19.7





#89

Benzo(a)pyrene

Concen: 8.428 ng

RT: 14.82 min Scan# 2215

Delta R.T. -0.01 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

ClientSampleId :

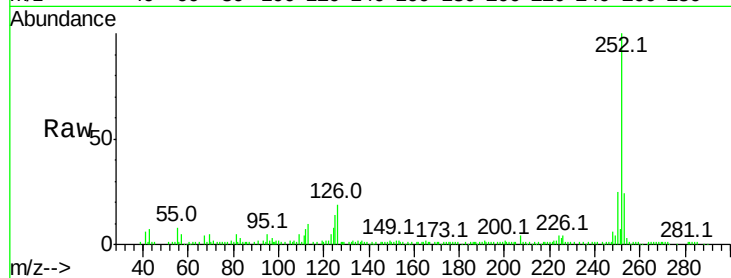
Tot Ion:252 Resp: 84523

Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

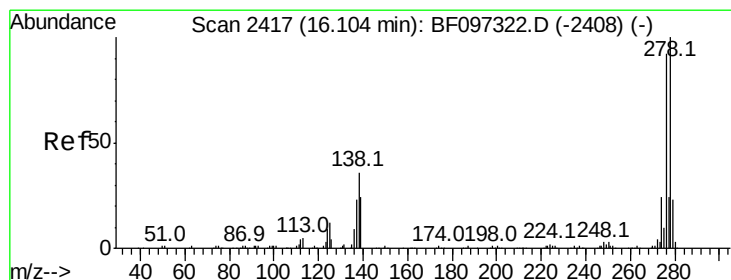
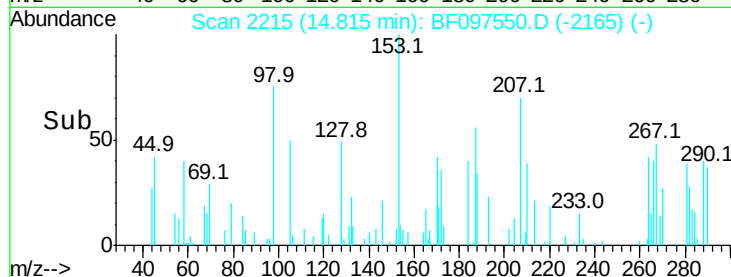
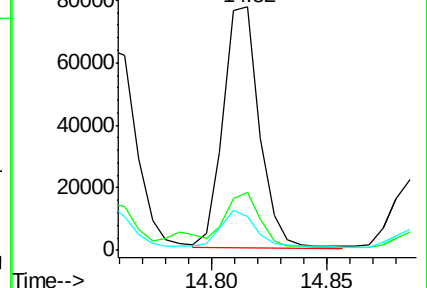
125 13.6 11.0 16.4



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



#90

Dibenzo(a,h)anthracene

Concen: 2.080 ng

RT: 16.04 min Scan# 2424

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

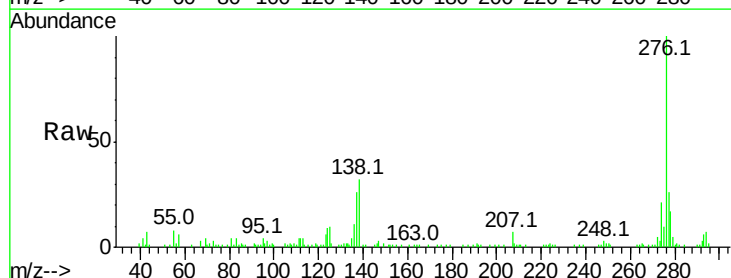
Tgt Ion:278 Resp: 17106

Ion Ratio Lower Upper

278 100

139 0.0 16.6 24.8#

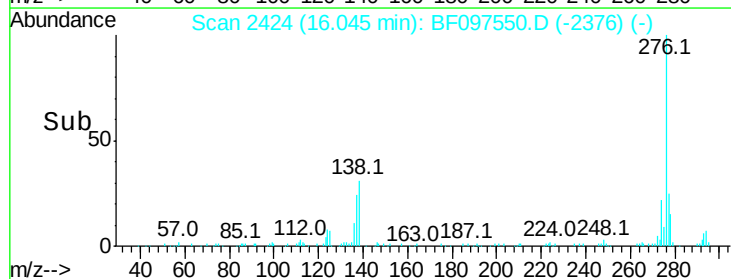
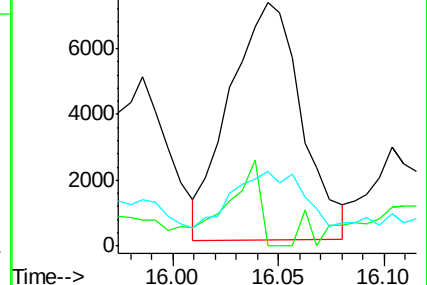
279 30.4 19.3 28.9#

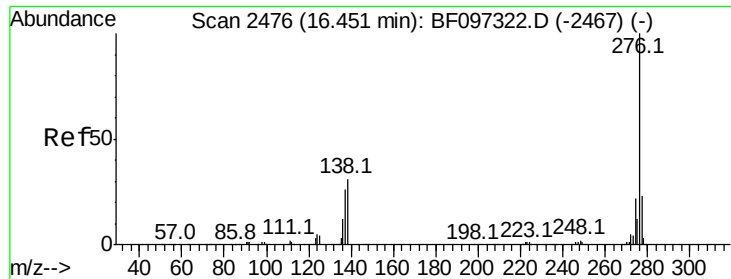


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 7.627 ng

RT: 16.40 min Scan# 2484

Delta R.T. -0.01 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

ClientSampleId :

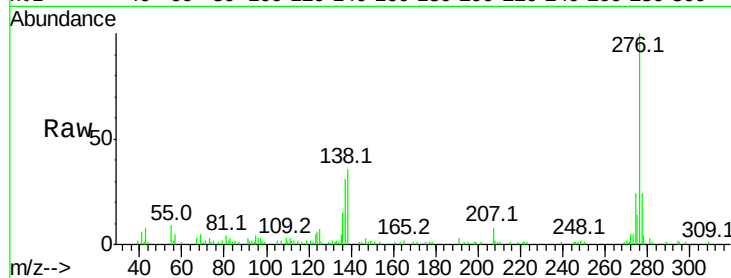
Tot Ion: 276 Resp: 65775

Ion Ratio Lower Upper

276 100

277 24.5 18.6 28.0

138 35.6 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

