

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
 Data File : BF097189.D
 Acq On : 29 Jul 2017 8:10
 Operator : SJ/JU
 Sample : I4421-08
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-HS5-ESW

Quant Time: Jul 31 00:59:00 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

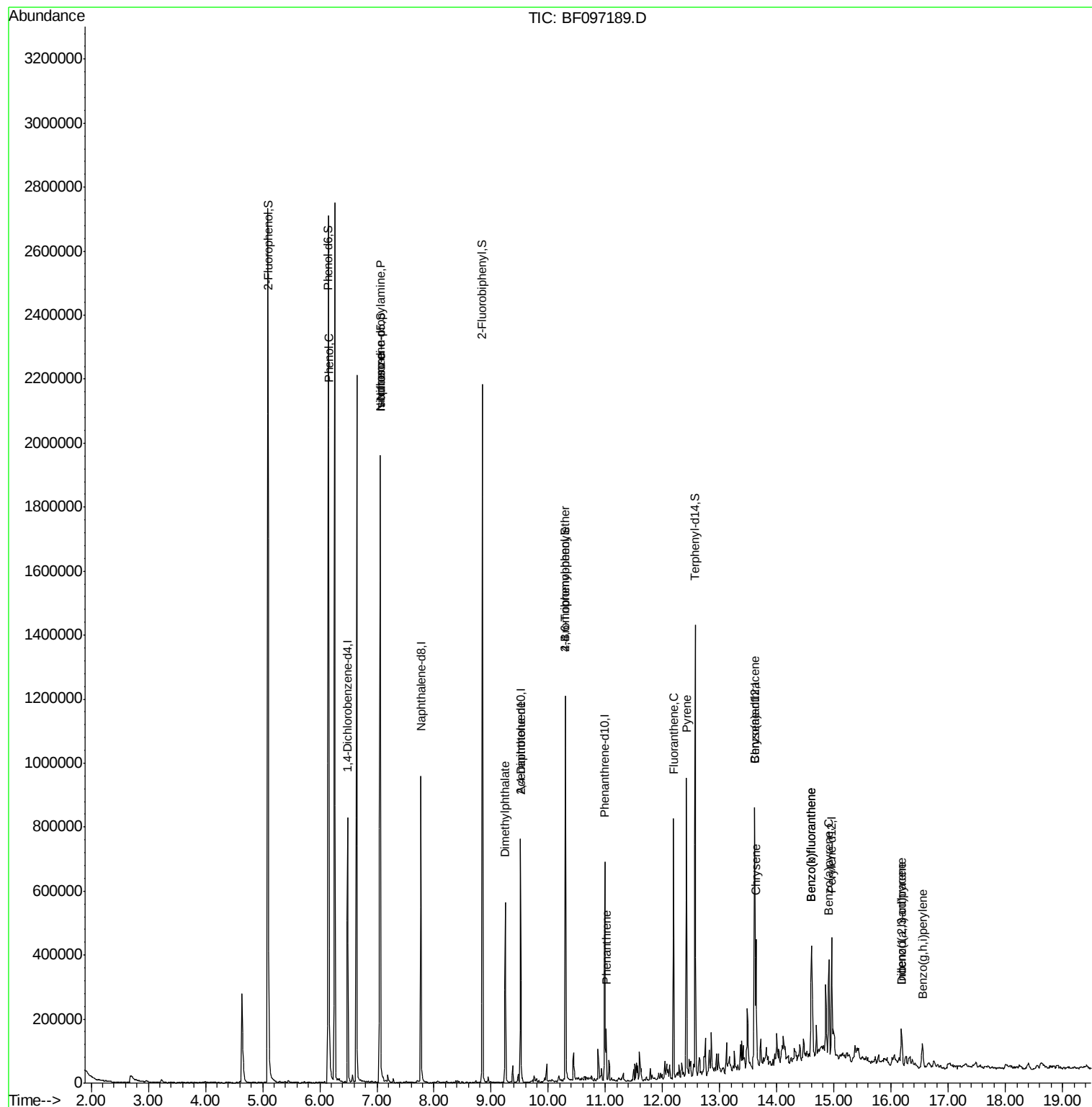
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	113378	20.00	ng	-0.01
21) Naphthalene-d8	7.77	136	408129	20.00	ng	-0.02
38) Acenaphthene-d10	9.52	164	145962	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	218172	20.00	ng	-0.02
75) Chrysene-d12	13.62	240	192900	20.00	ng	-0.01
86) Perylene-d12	14.96	264	139475	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.09	112	830582	110.44	ng	0.00
7) Phenol-d6	6.15	99	994863	115.87	ng	-0.02
23) Nitrobenzene-d5	7.06	82	608287	87.43	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	125743	109.03	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	687657	79.95	ng	-0.02
78) Terphenyl-d14	12.57	244	431884	45.65	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.16	94	39993	3.93	ng	96
19) n-Nitroso-di-n-propylamine	7.06	70	81342	14.39	ng	# 87
25) Isophorone	7.06	82	602038	44.19	ng	# 67
49) Dimethylphthalate	9.25	163	198334	17.89	ng	99
56) 2,4-Dinitrotoluene	9.52	165	18736	6.93	ng	# 31
66) 4-Bromophenyl-phenylether	10.30	248	7700	3.54	ng	# 1
70) Phenanthrene	11.01	178	55120	4.72	ng	98
74) Fluoranthene	12.19	202	297160	25.95	ng	96
77) Pyrene	12.42	202	322200	20.40	ng	99
80) Benzo(a)anthracene	13.60	228	165414	13.25	ng	93
82) Chrysene	13.64	228	136098	11.17	ng	98
85) Indeno(1,2,3-cd)pyrene	16.19	276	58617	5.61	ng	92
87) Benzo(b)fluoranthene	14.60	252	203450	24.27	ng	# 97
88) Benzo(k)fluoranthene	14.60	252	203450	25.47	ng	98
89) Benzo(a)pyrene	14.91	252	116388	15.17	ng	98
90) Dibenzo(a,h)anthracene	16.18	278	13095	2.08	ng	# 82
91) Benzo(g,h,i)perylene	16.54	276	50144	7.60	ng	98

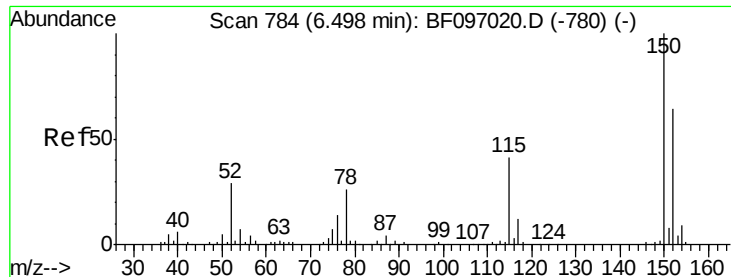
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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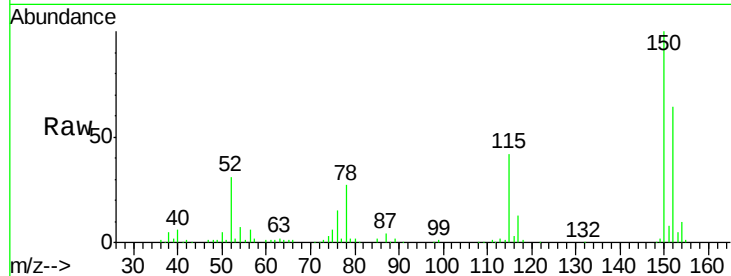


#1

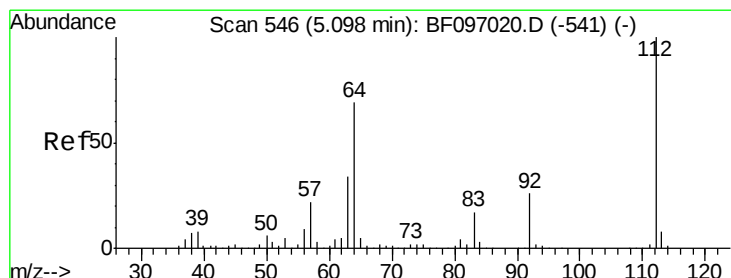
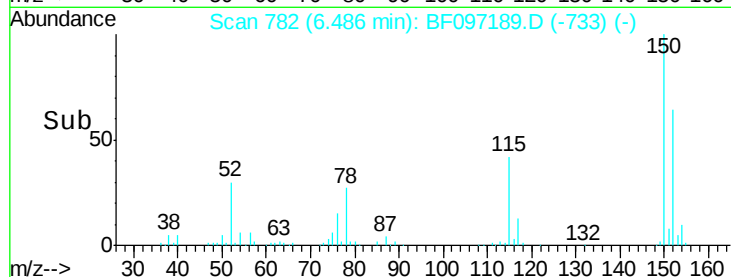
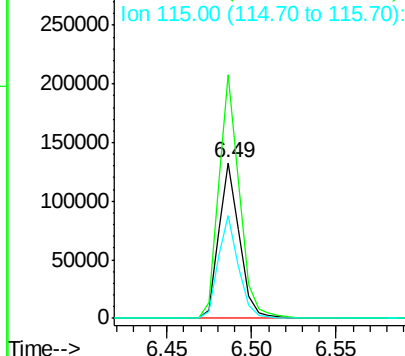
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.49 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Instrument :
BNA_F
ClientSampled :
E2-HS5-ESW

Tot Ion:152 Resp: 113378
Ion Ratio Lower Upper
152 100
150 156.7 126.2 189.2
115 66.0 52.2 78.2



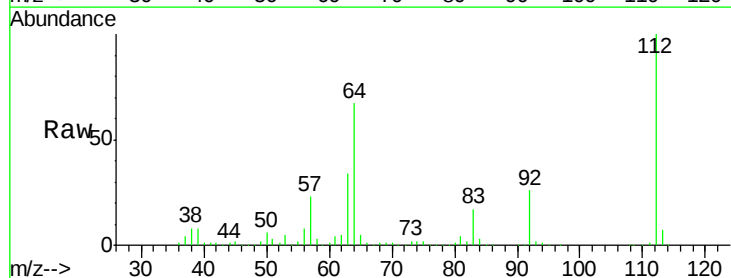
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



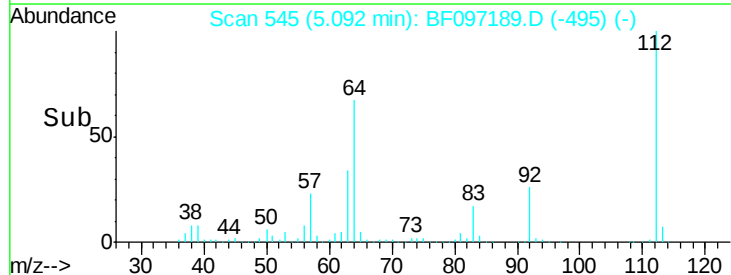
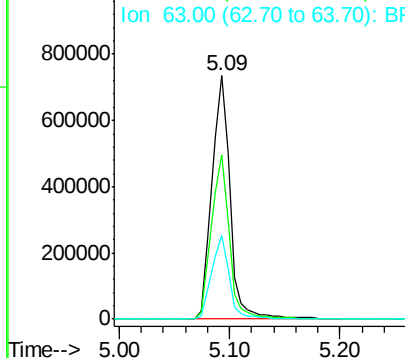
#5

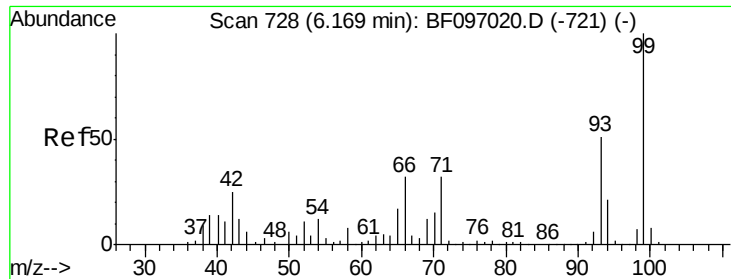
2-Fluorophenol
Concen: 110.44 ng
RT: 5.09 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion:112 Resp: 830582
Ion Ratio Lower Upper
112 100
64 67.2 46.0 69.0
63 34.3 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: 115.87 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Instrument :

BNA_F

ClientSampleId :

E2-HS5-ESW

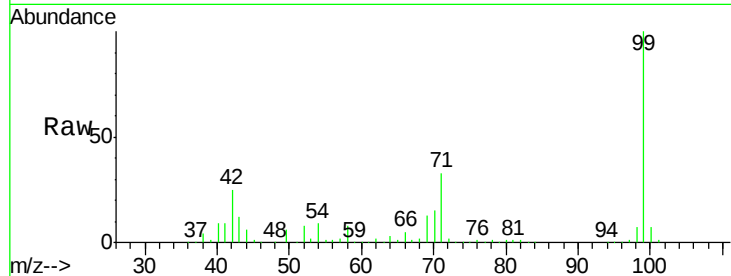
Tot Ion: 99 Resp: 994863

Ion Ratio Lower Upper

99 100

42 24.9 13.5 20.3#

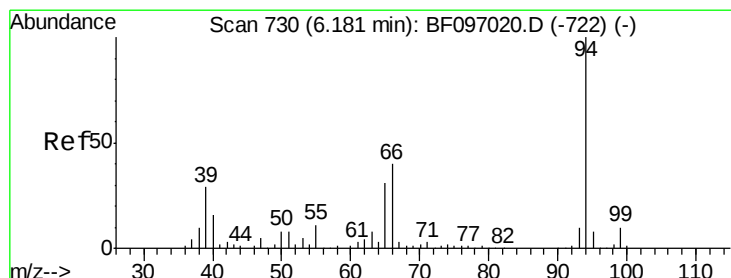
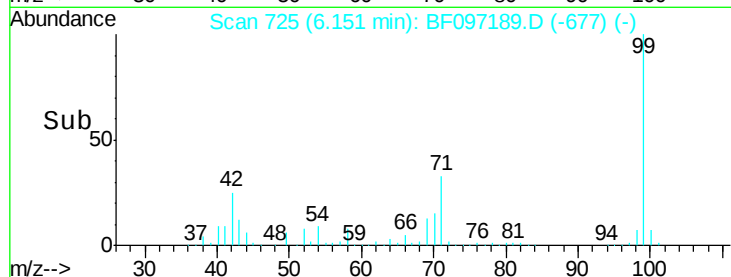
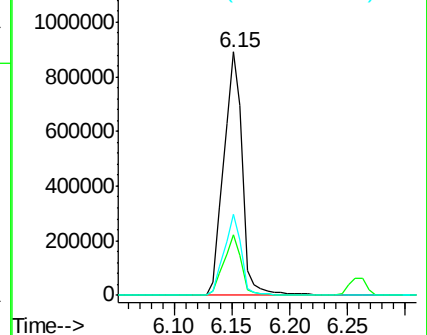
71 33.1 24.5 36.7



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



#10

Phenol

Concen: 3.93 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

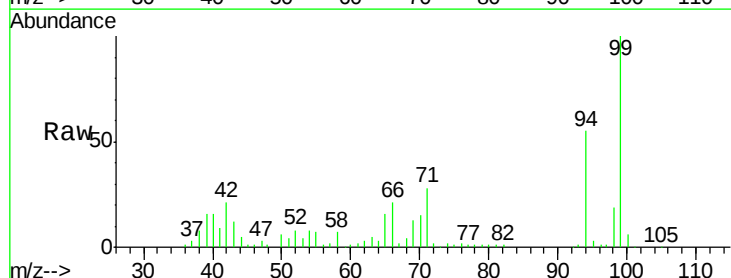
Tgt Ion: 94 Resp: 39993

Ion Ratio Lower Upper

94 100

65 29.5 9.9 49.9

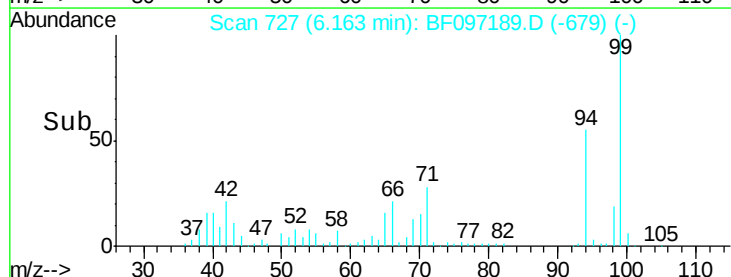
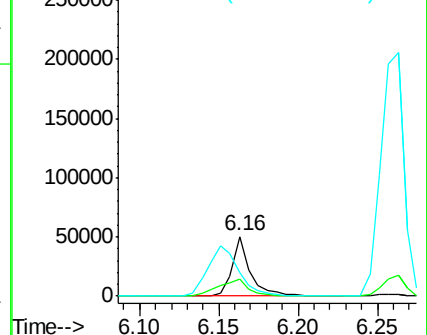
66 39.2 23.1 63.1

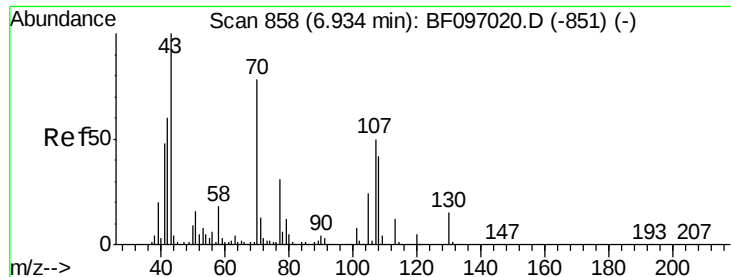


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

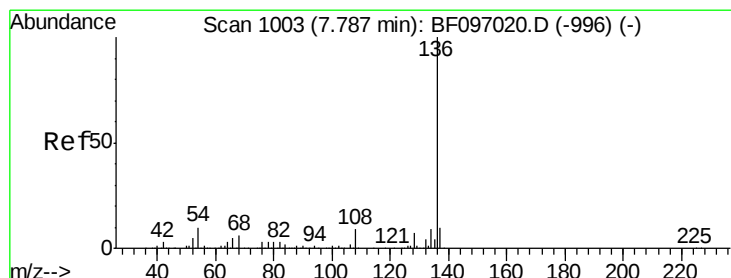
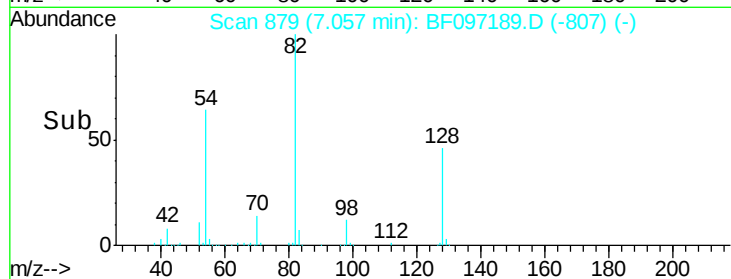
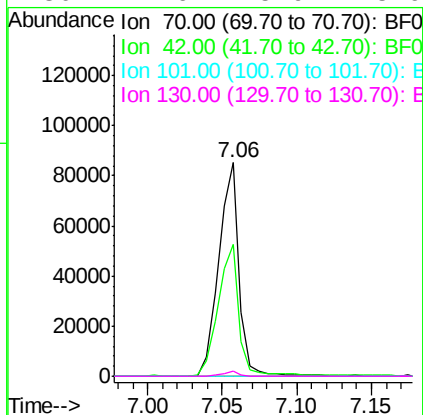
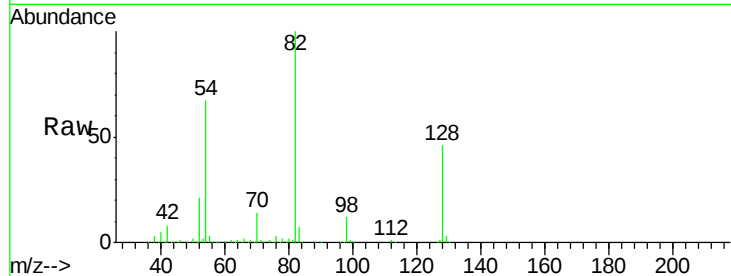




#19
n-Nitroso-di-n-propylamine
Concen: 14.39 ng
RT: 7.06 min Scan# 879
Delta R.T. 0.12 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

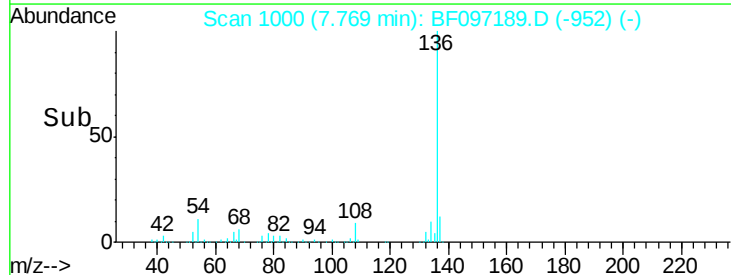
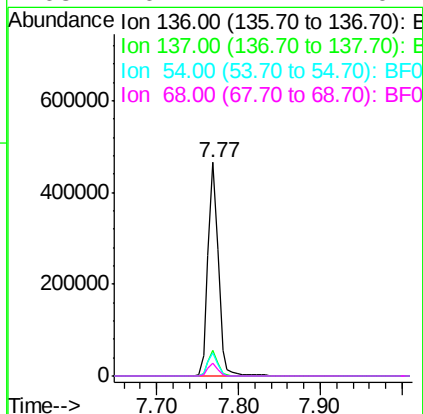
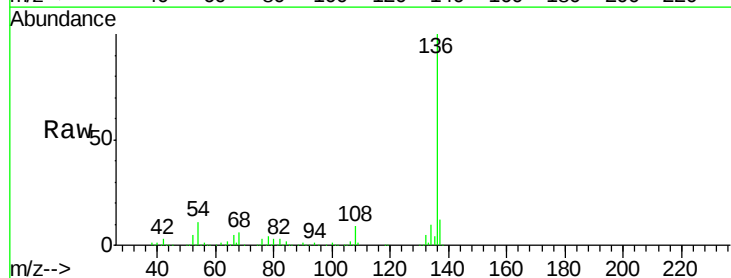
Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

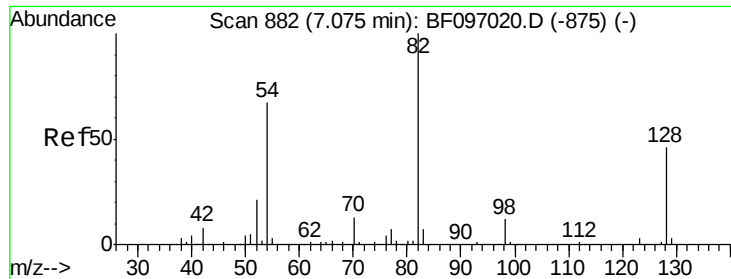
Tot Ion: 70 Resp: 81342
Ion Ratio Lower Upper
70 100
42 61.6 47.2 70.8
101 0.0 7.2 10.8#
130 2.6 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.77 min Scan# 1000
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion: 136 Resp: 408129
Ion Ratio Lower Upper
136 100
137 11.7 8.5 12.7
54 10.9 4.9 7.3#
68 6.2 4.1 6.1#

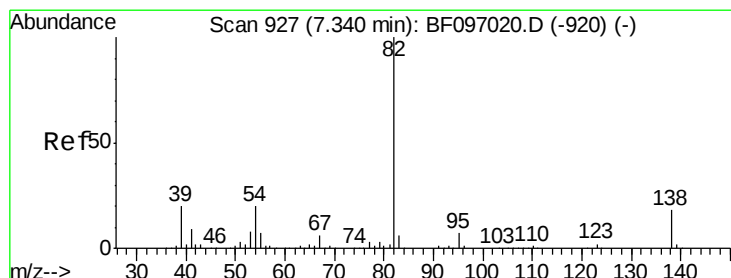
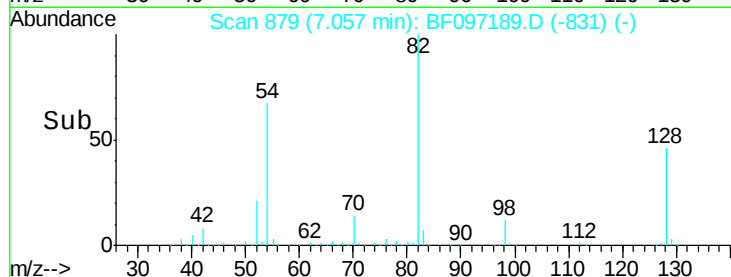
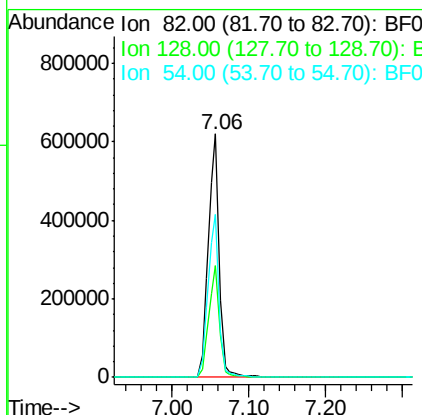
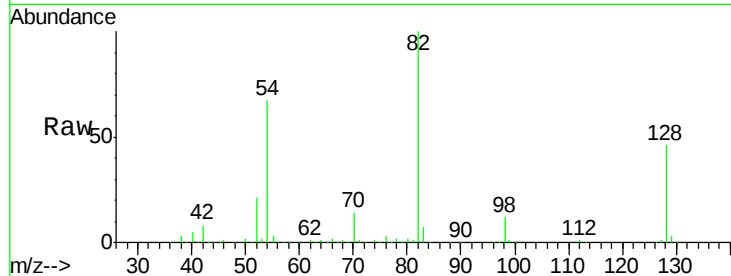




#23
 Nitrobenzene-d5
 Concen: 87.43 ng
 RT: 7.06 min Scan# 879
 Delta R.T. -0.02 min
 Lab File: BF097189.D
 Acq: 29 Jul 2017 8:10

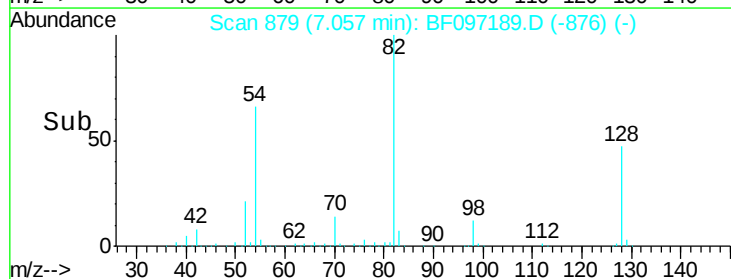
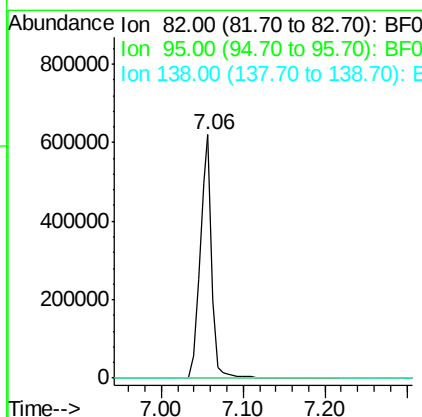
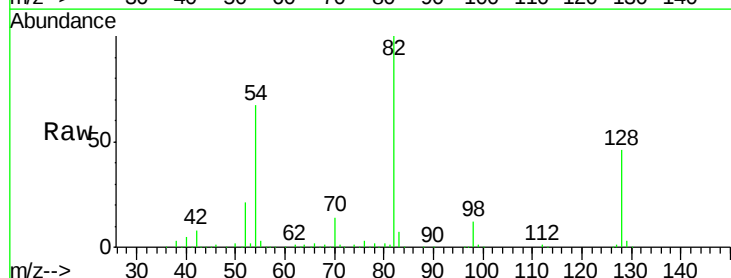
Instrument :
 BNA_F
 ClientSampleId :
 E2-HS5-ESW

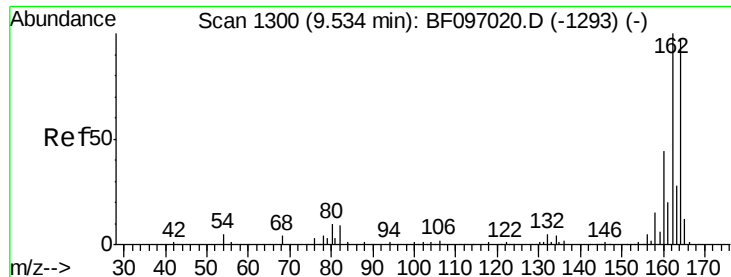
Tot Ion: 82 Resp: 608287
 Ion Ratio Lower Upper
 82 100
 128 45.8 34.0 51.0
 54 66.8 42.2 63.2#



#25
 Isophorone
 Concen: 44.19 ng
 RT: 7.06 min Scan# 879
 Delta R.T. -0.28 min
 Lab File: BF097189.D
 Acq: 29 Jul 2017 8:10

Tgt Ion: 82 Resp: 602038
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.3 7.9#
 138 0.0 13.1 19.7#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Instrument :

BNA_F

ClientSampleId :

E2-HS5-ESW

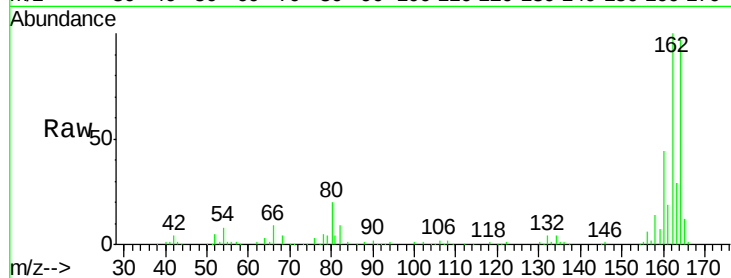
Tot Ion:164 Resp: 145962

Ion Ratio Lower Upper

164 100

162 102.9 82.6 123.8

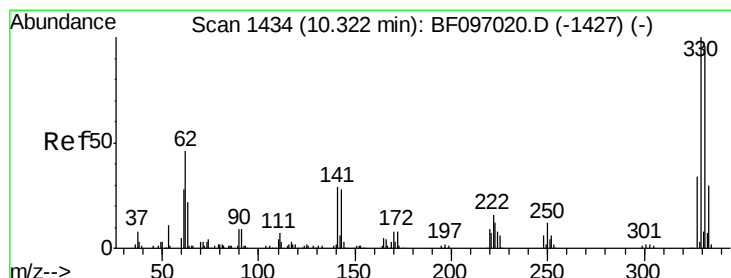
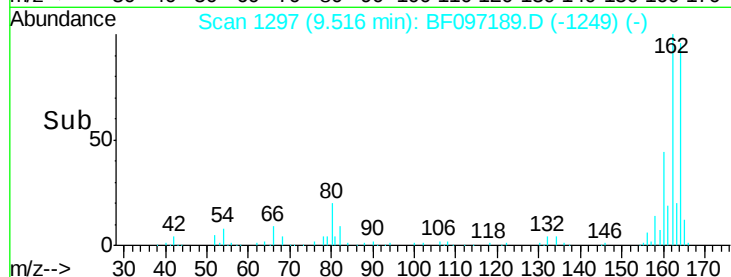
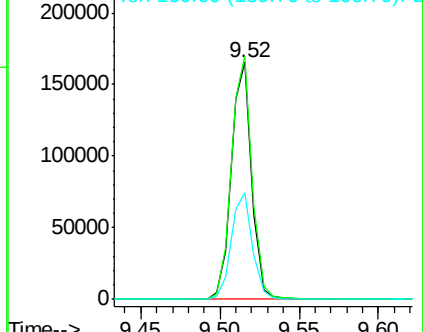
160 45.2 36.2 54.2



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: 109.03 ng

RT: 10.30 min Scan# 1431

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

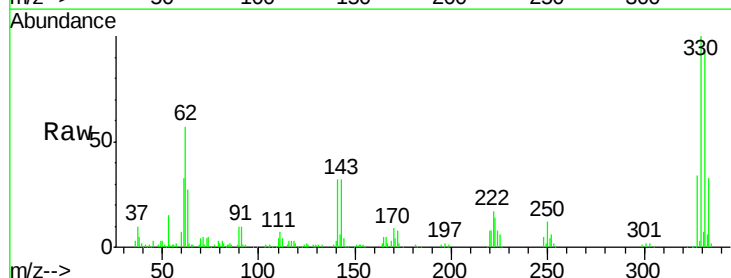
Tgt Ion:330 Resp: 125743

Ion Ratio Lower Upper

330 100

332 96.0 76.6 115.0

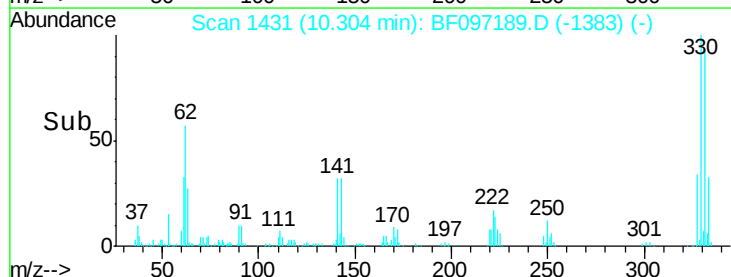
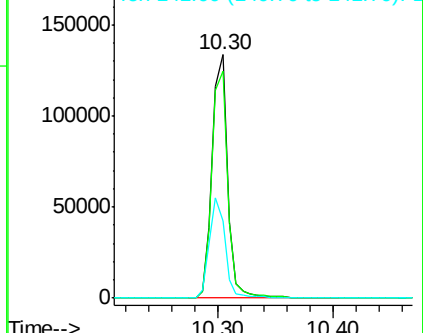
141 42.3 31.4 47.2

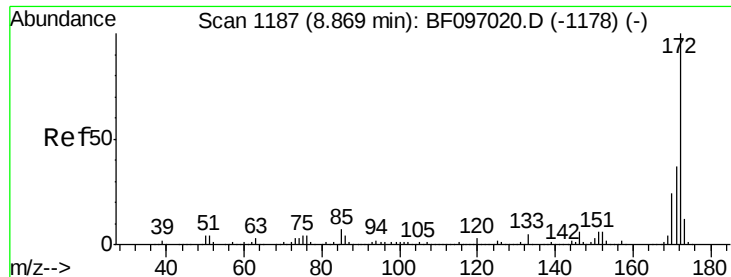


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

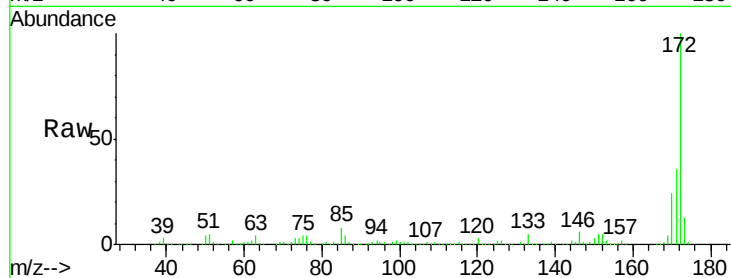




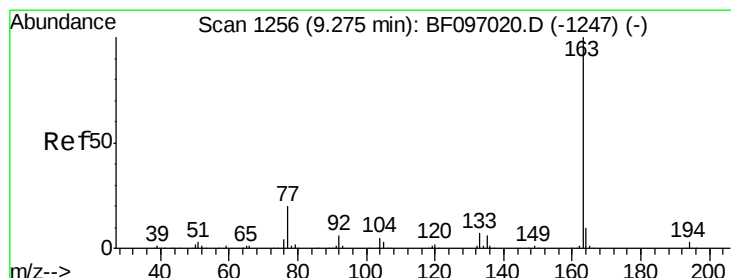
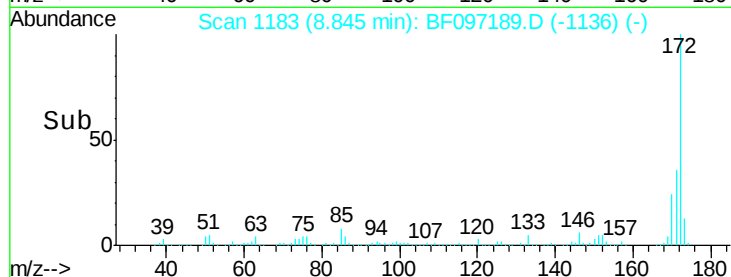
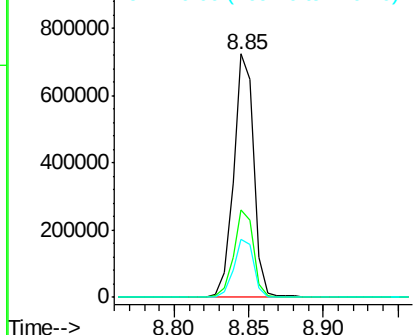
#44
2-Fluorobiphenyl
Concen: 79.95 ng
RT: 8.85 min Scan# 1183
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.6	44.4
170	23.8	19.8	29.8

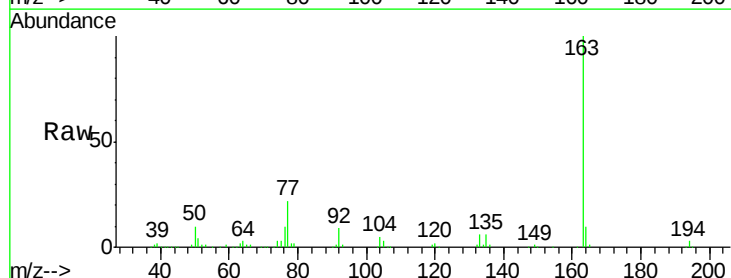


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

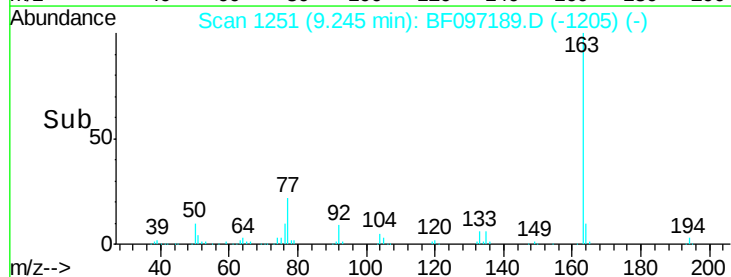
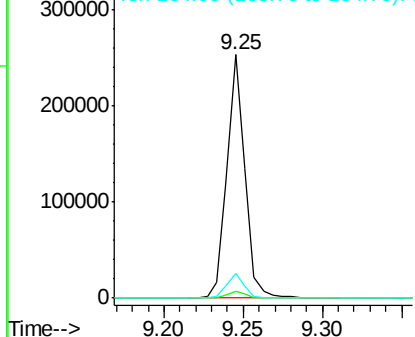


#49
Dimethylphthalate
Concen: 17.89 ng
RT: 9.25 min Scan# 1251
Delta R.T. -0.03 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.9	2.6	4.0
164	10.1	8.4	12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#56

2,4-Dinitrotoluene

Concen: 6.93 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.22 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Instrument :

BNA_F

ClientSampleId :

E2-HS5-ESW

Tot Ion:165 Resp: 18736

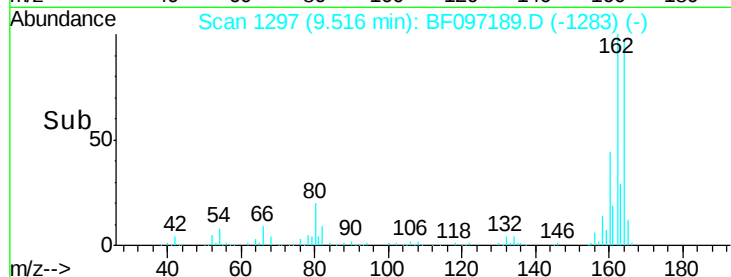
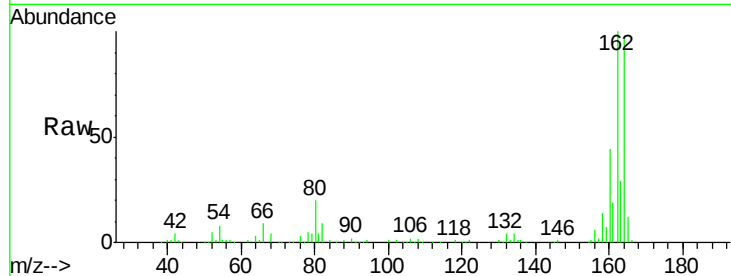
Ion Ratio Lower Upper

165 100

63 0.0 25.4 38.0#

89 0.0 46.4 69.6#

182 0.0 1.8 2.6#

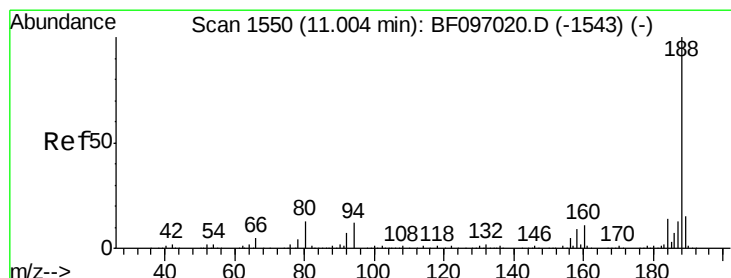
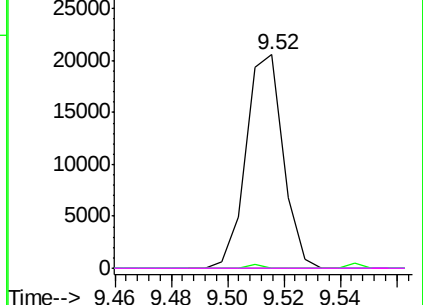


Abundance Ion 165.00 (164.70 to 165.70): E

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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.99 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

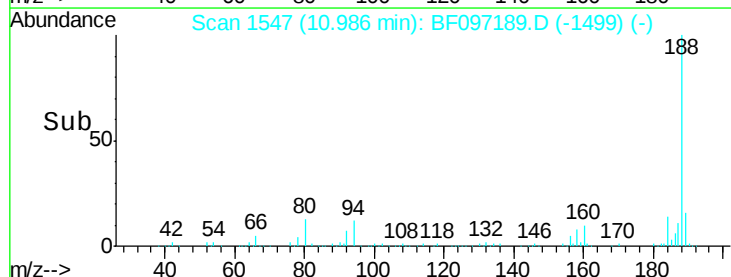
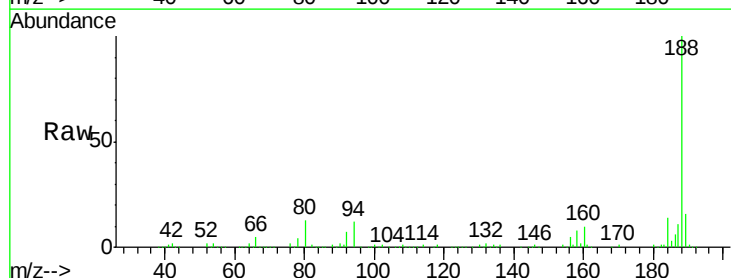
Tgt Ion:188 Resp: 218172

Ion Ratio Lower Upper

188 100

94 12.1 9.4 14.2

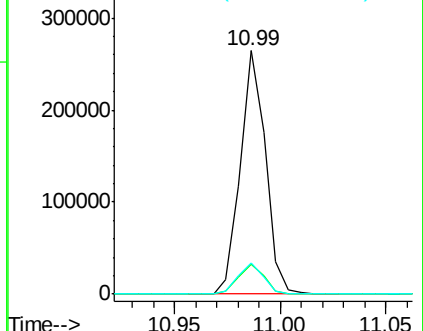
80 12.6 10.2 15.2



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

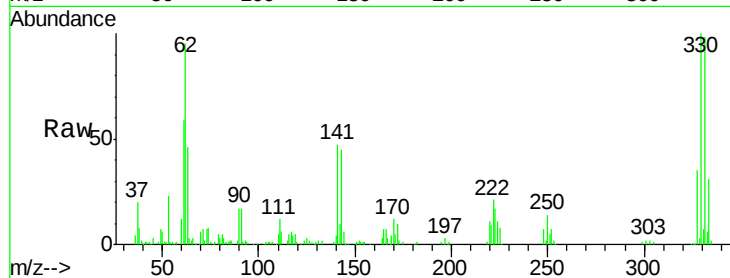




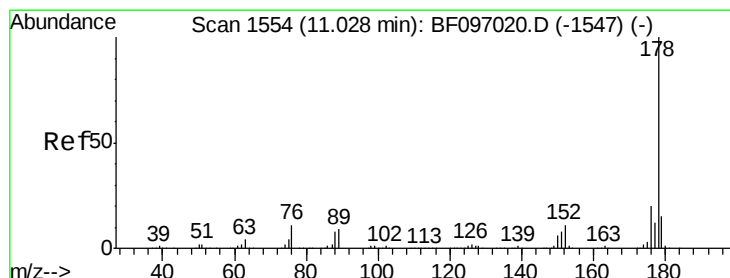
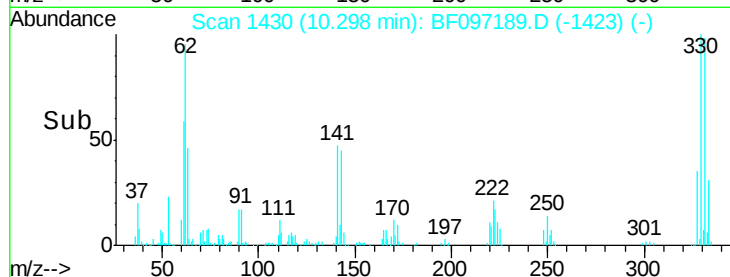
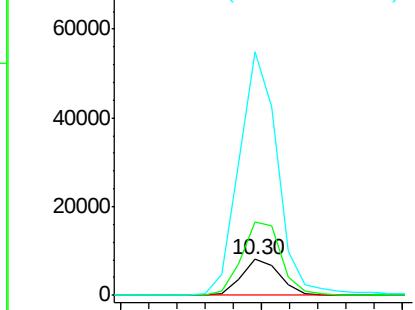
#66
 4-Bromophenyl-phenylether
 Concen: 3.54 ng
 RT: 10.30 min Scan# 1430
 Delta R.T. -0.26 min
 Lab File: BF097189.D
 Acq: 29 Jul 2017 8:10

Instrument :
 BNA_F
 ClientSampleId :
 E2-HS5-ESW

Tot Ion:248 Resp: 7700
 Ion Ratio Lower Upper
 248 100
 250 204.8 76.8 115.2#
 141 674.4 68.6 103.0#

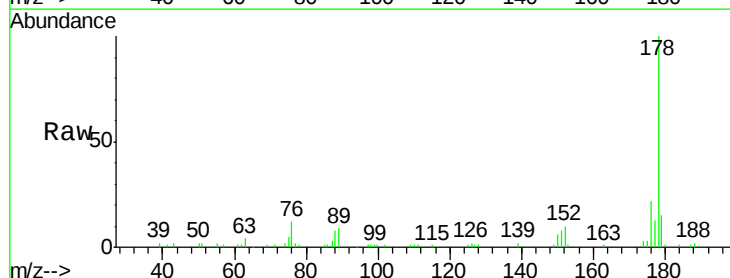


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

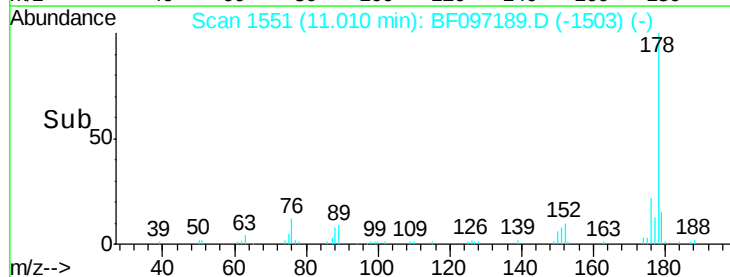
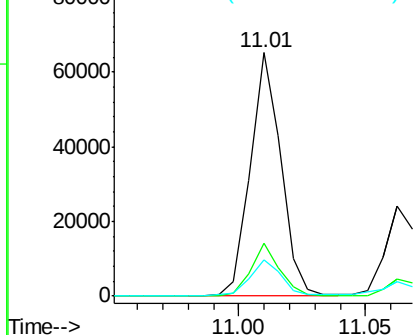


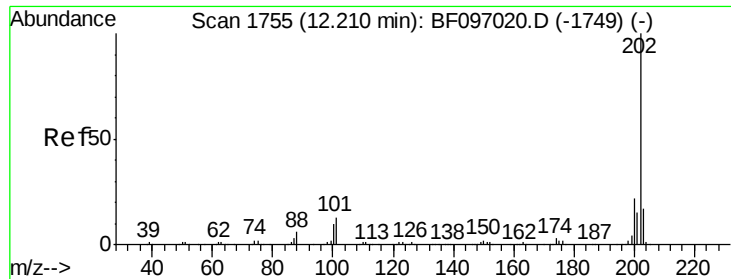
#70
 Phenanthrene
 Concen: 4.72 ng
 RT: 11.01 min Scan# 1551
 Delta R.T. -0.02 min
 Lab File: BF097189.D
 Acq: 29 Jul 2017 8:10

Tgt Ion:178 Resp: 55120
 Ion Ratio Lower Upper
 178 100
 176 21.5 16.2 24.4
 179 14.9 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





#74

Fluoranthene

Concen: 25.95 ng

RT: 12.19 min Scan# 1752

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Instrument :

BNA_F

ClientSampleId :

E2-HS5-ESW

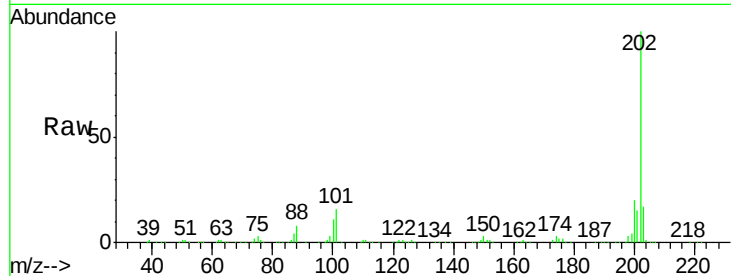
Tot Ion:202 Resp: 297160

Ion Ratio Lower Upper

202 100

101 15.5 0.0 33.2

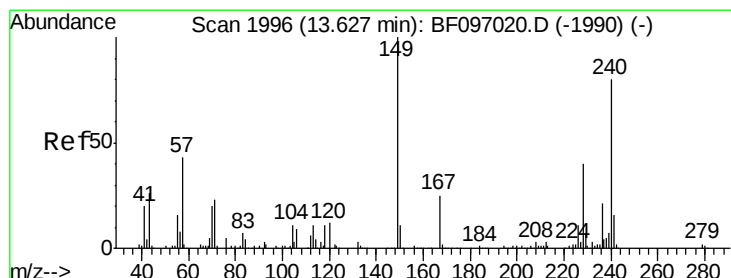
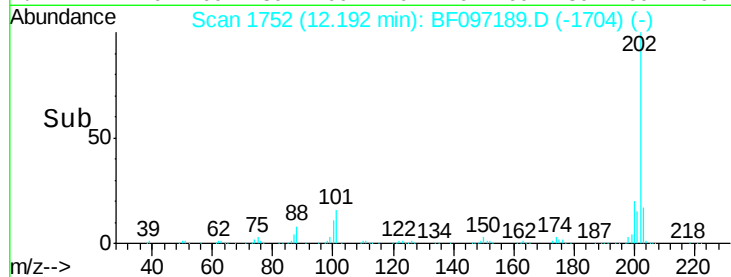
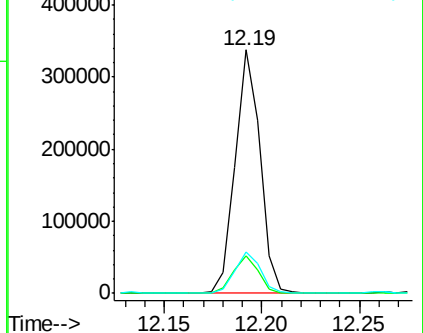
203 17.2 0.0 38.1



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: 13.62 min Scan# 1994

Delta R.T. -0.01 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

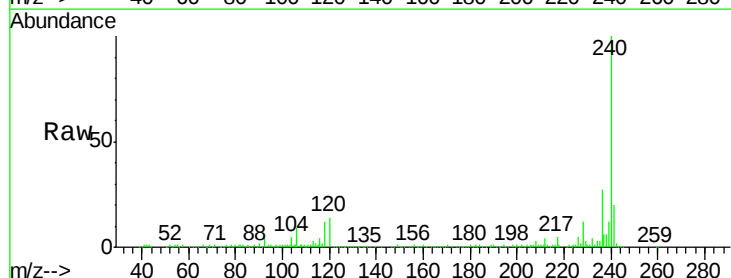
Tgt Ion:240 Resp: 192900

Ion Ratio Lower Upper

240 100

120 13.9 5.8 8.8#

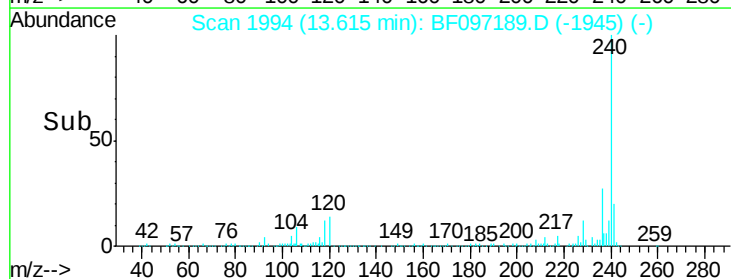
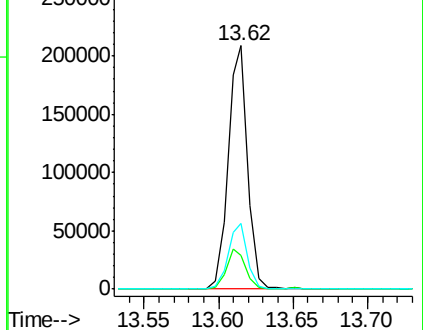
236 26.8 20.5 30.7

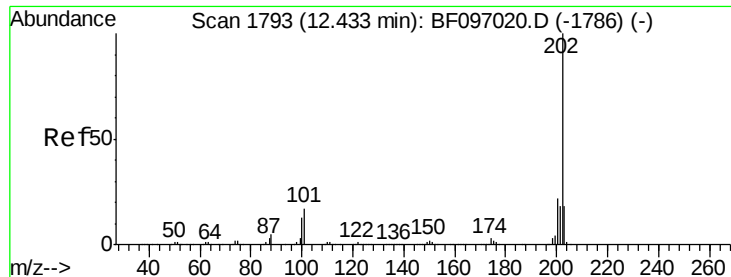


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

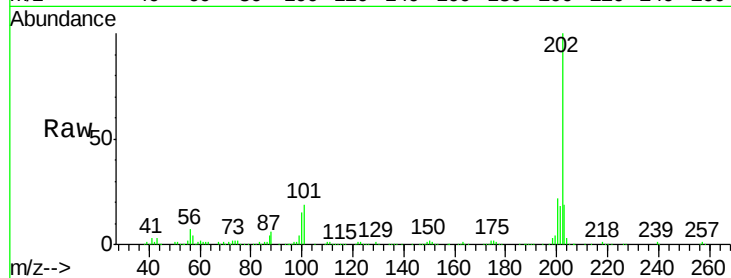




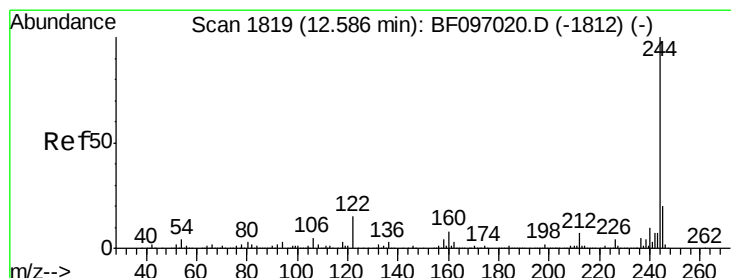
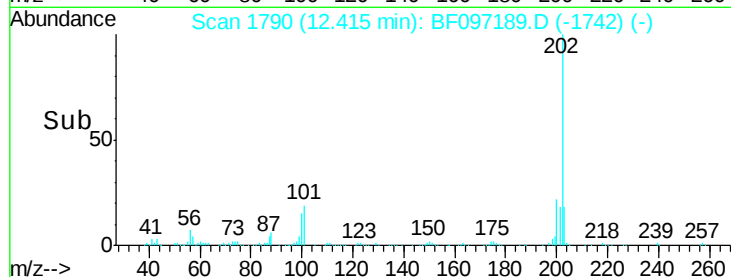
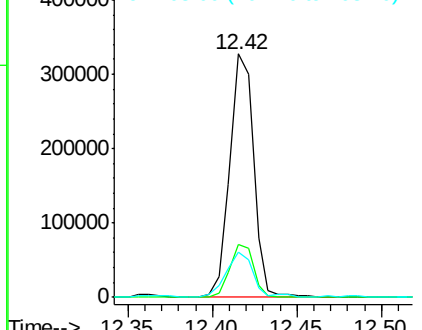
#77
Pvrene
Concen: 20.40 ng
RT: 12.42 min Scan# 1790
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

Tot Ion:202 Resp: 322200
Ion Ratio Lower Upper
202 100
200 21.8 17.6 26.4
203 18.8 14.4 21.6

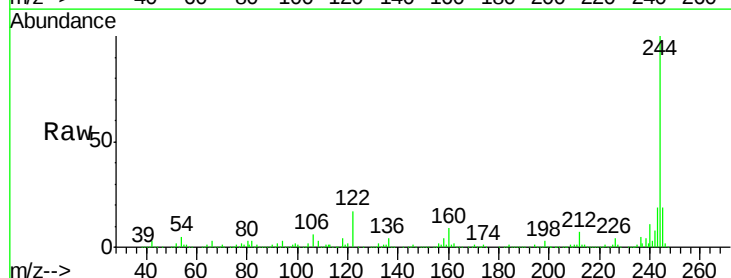


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

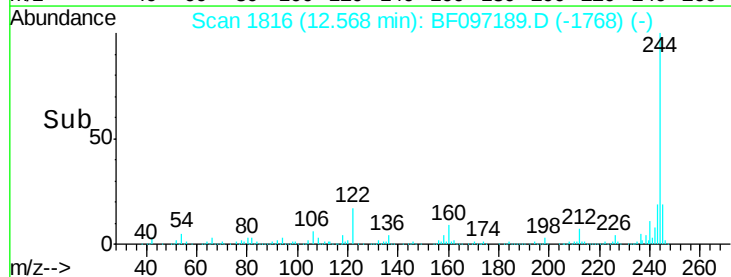
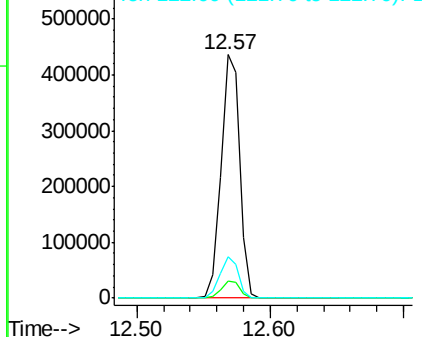


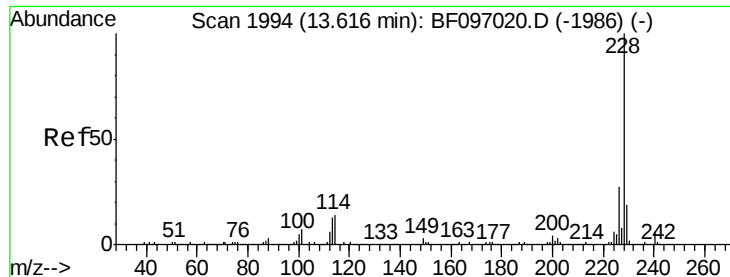
#78
Terphenyl-d14
Concen: 45.65 ng
RT: 12.57 min Scan# 1816
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion:244 Resp: 431884
Ion Ratio Lower Upper
244 100
212 7.1 6.0 9.0
122 16.9 10.3 15.5#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 13.25 ng

RT: 13.60 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Instrument :

BNA_F

ClientSampleId :

E2-HS5-ESW

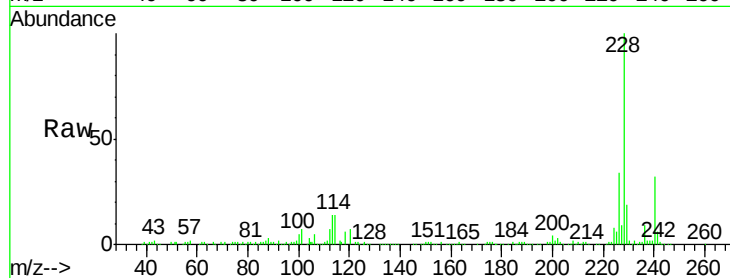
Tot Ion:228 Resp: 165414

Ion Ratio Lower Upper

228 100

226 33.6 22.6 33.8

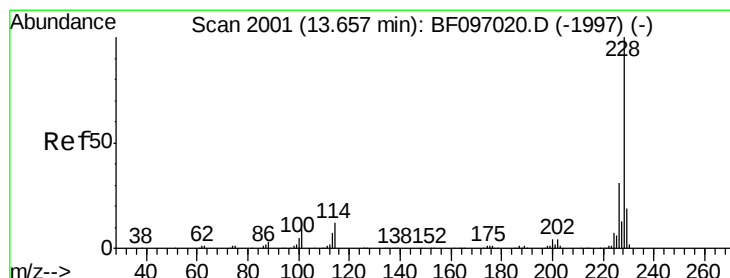
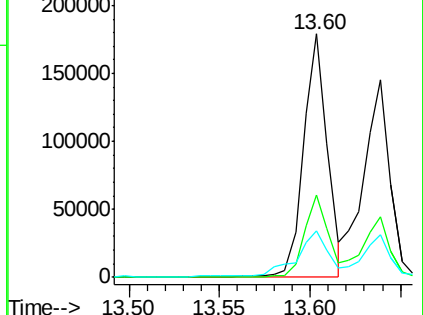
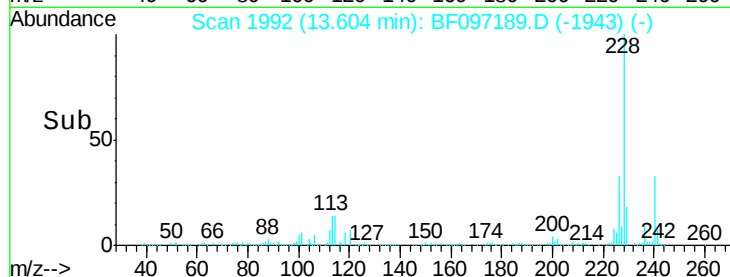
229 19.0 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 11.17 ng

RT: 13.64 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

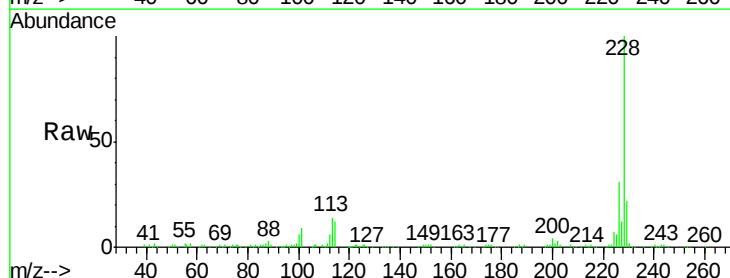
Tgt Ion:228 Resp: 136098

Ion Ratio Lower Upper

228 100

226 30.7 24.9 37.3

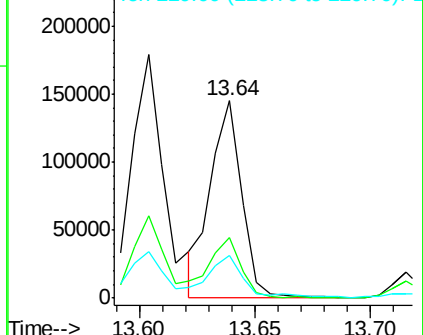
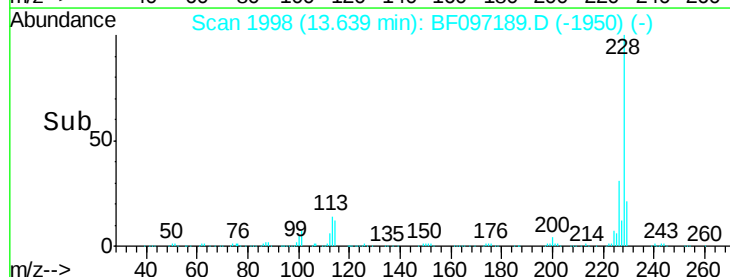
229 21.7 15.8 23.6

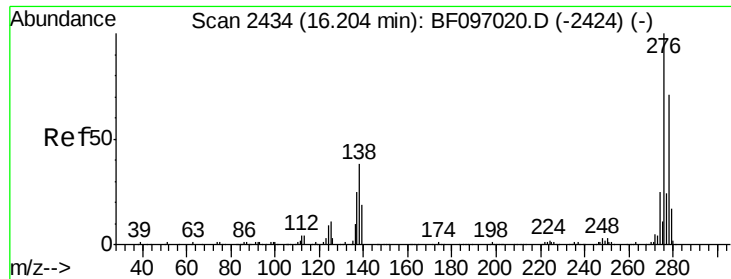


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

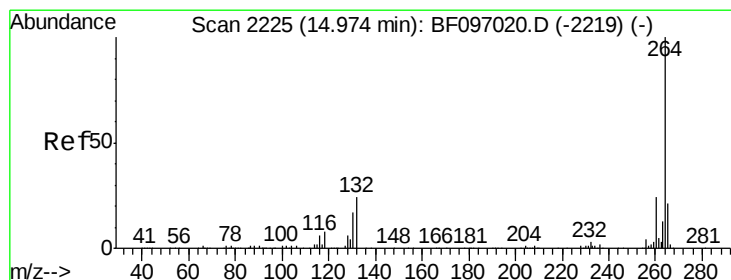
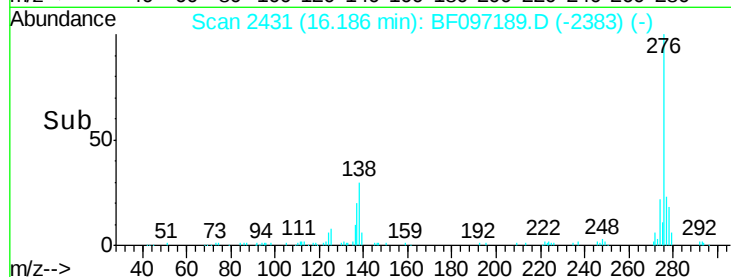
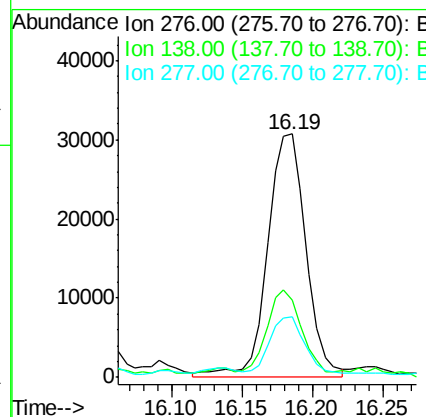
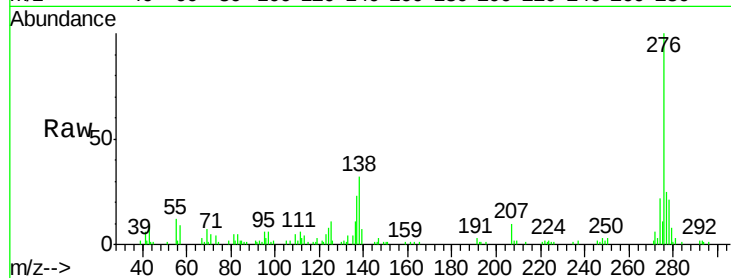




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.61 ng
 RT: 16.19 min Scan# 2431
 Delta R.T. -0.02 min
 Lab File: BF097189.D
 Acq: 29 Jul 2017 8:10

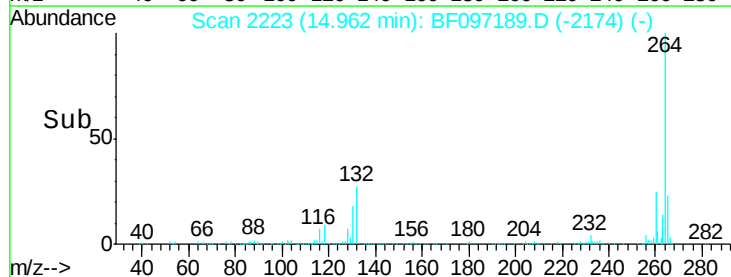
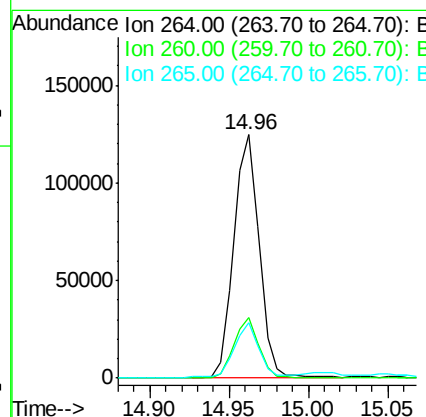
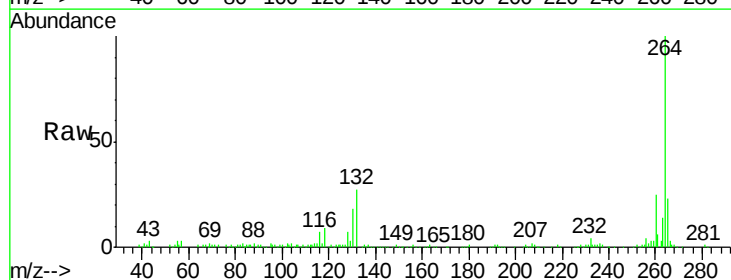
Instrument :
 BNA_F
 ClientSampleId :
 E2-HS5-ESW

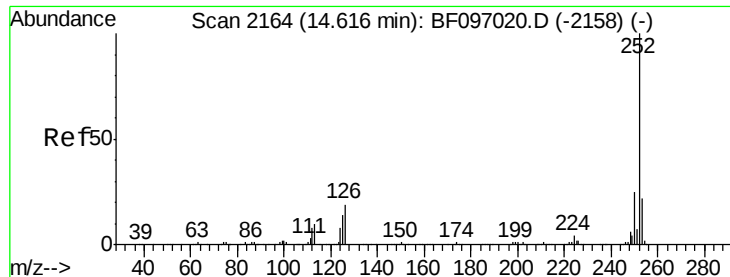
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.5	27.8	41.6
277	21.4	20.2	30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.96 min Scan# 2223
 Delta R.T. -0.01 min
 Lab File: BF097189.D
 Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.5	29.3
265	23.0	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 24.27 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Instrument :

BNA_F

ClientSampleId :

E2-HS5-ESW

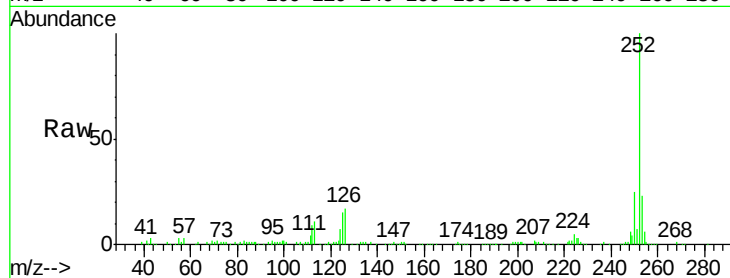
Tot Ion:252 Resp: 203450

Ion Ratio Lower Upper

252 100

253 22.5 18.1 27.1

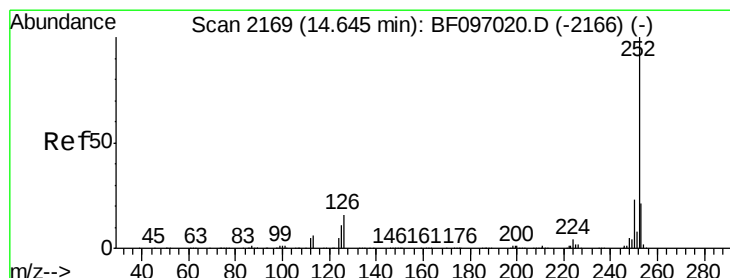
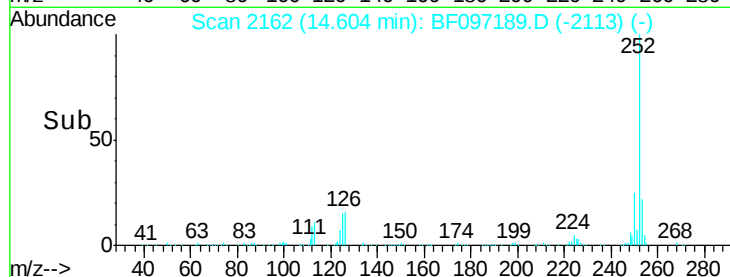
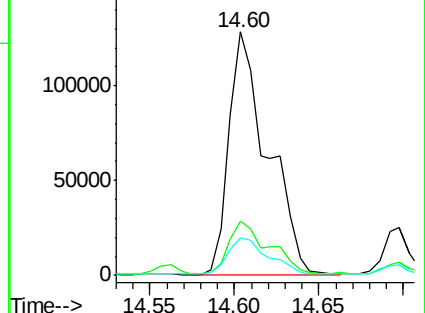
125 15.2 9.8 14.8#



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: 25.47 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.04 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

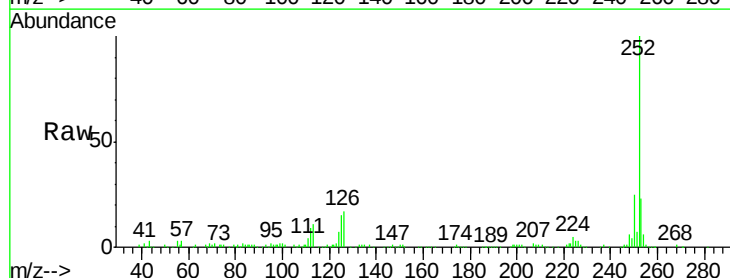
Tgt Ion:252 Resp: 203450

Ion Ratio Lower Upper

252 100

253 22.5 18.4 27.6

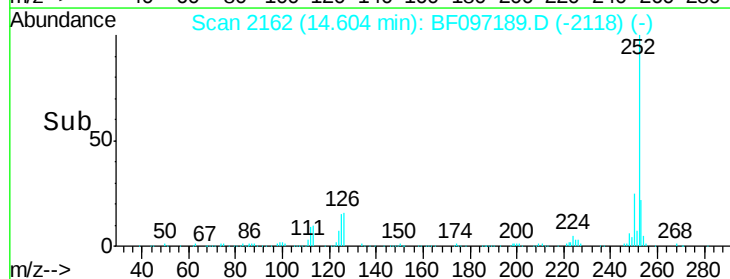
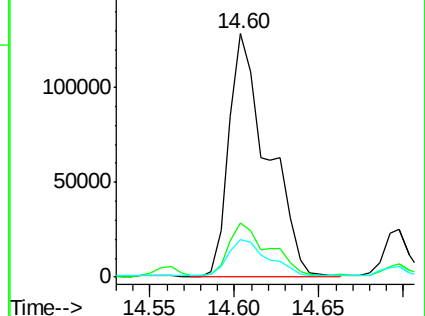
125 15.2 13.1 19.7

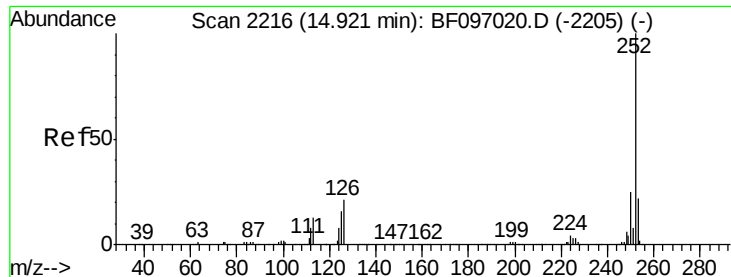


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

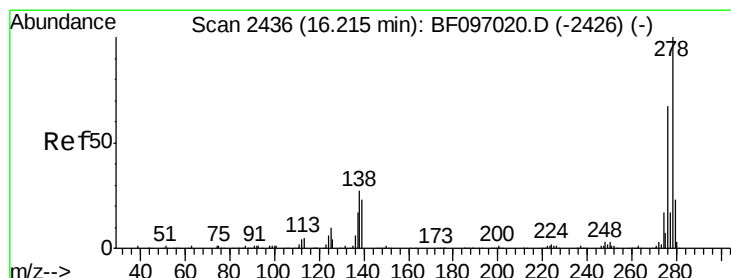
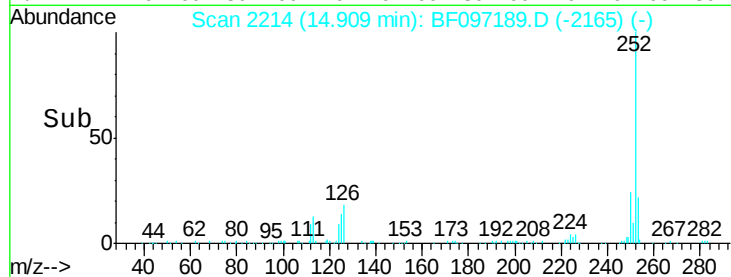
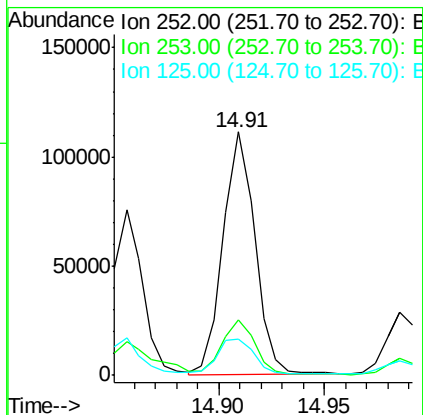
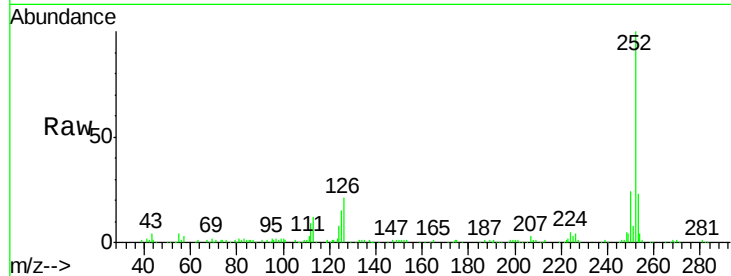




#89
Benzo(a)pyrene
Concen: 15.17 ng
RT: 14.91 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

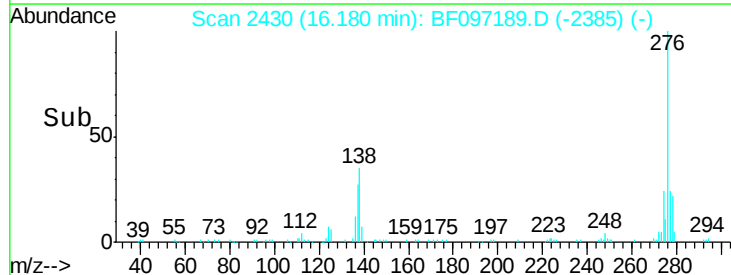
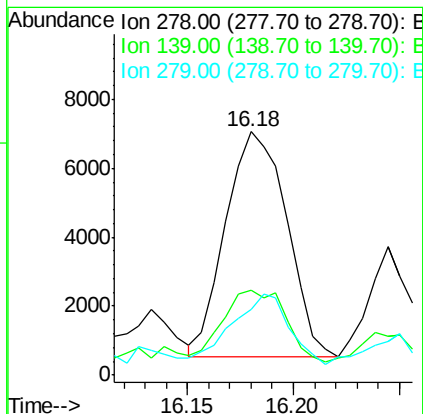
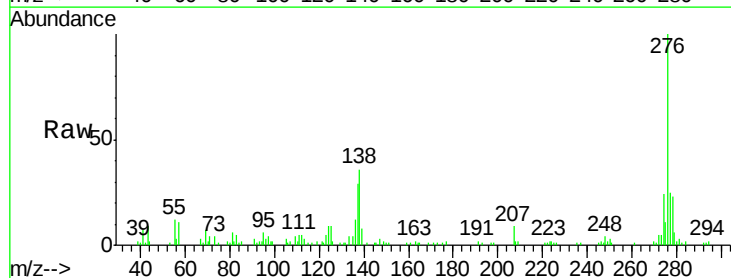
Instrument :
BNA_F
ClientSampled :
E2-HS5-ESW

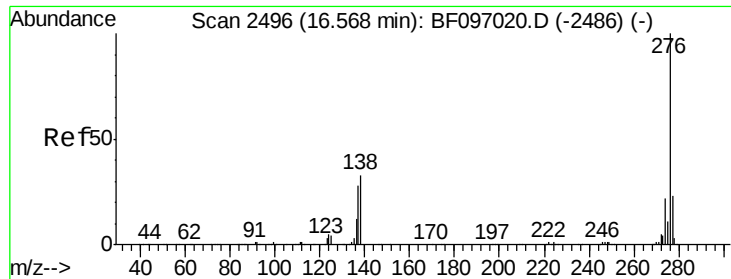
Tot Ion:252 Resp: 116388
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 14.7 11.0 16.4



#90
Dibenzo(a,h)anthracene
Concen: 2.08 ng
RT: 16.18 min Scan# 2430
Delta R.T. -0.04 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion:278 Resp: 13095
Ion Ratio Lower Upper
278 100
139 35.0 16.6 24.8#
279 27.2 19.3 28.9

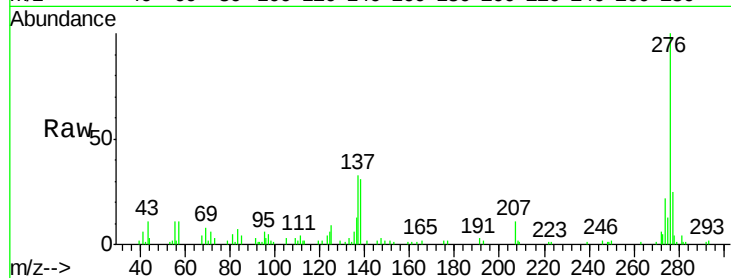




#91
 Benzo(a,h,i)perylene
 Concen: 7.60 ng
 RT: 16.54 min Scan# 2492
 Delta R.T. -0.02 min
 Lab File: BF097189.D
 Acq: 29 Jul 2017 8:10

Instrument :
 BNA_F
 ClientSampleId :
 E2-HS5-ESW

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.1	18.6	28.0
138	30.9	25.4	38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

