

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\
 Data File : BF097057.D
 Acq On : 26 Jul 2017 5:11
 Operator : SJ/JU
 Sample : I4305-03RE 5X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	132024	20.00	ng	0.00
21) Naphthalene-d8	7.78	136	504337	20.00	ng	0.00
38) Acenaphthene-d10	9.53	164	197777	20.00	ng	0.00
63) Phenanthrene-d10	11.00	188	287871	20.00	ng	0.00
75) Chrysene-d12	13.62	240	231556	20.00	ng	0.00
86) Perylene-d12	14.97	264	166096	20.00	ng	0.00

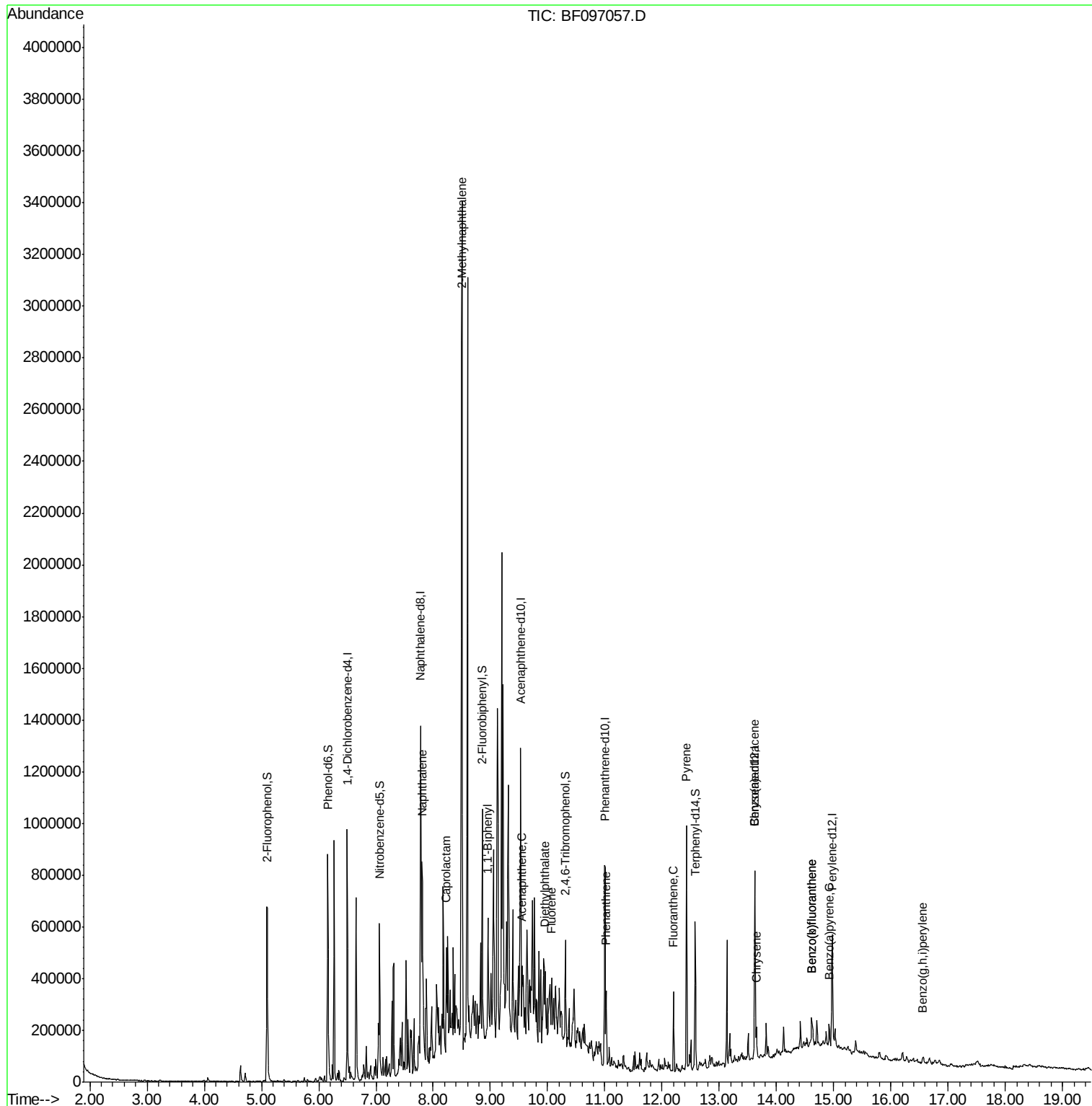
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.10	112	221363	25.28	ng	0.00
7) Phenol-d6	6.16	99	265422	26.55	ng	-0.01
23) Nitrobenzene-d5	7.06	82	153605	17.87	ng	-0.01
41) 2,4,6-Tribromophenol	10.31	330	36441	23.32	ng	-0.01
44) 2-Fluorobiphenyl	8.86	172	263800	22.64	ng	-0.01
78) Terphenyl-d14	12.58	244	152340	13.41	ng	0.00

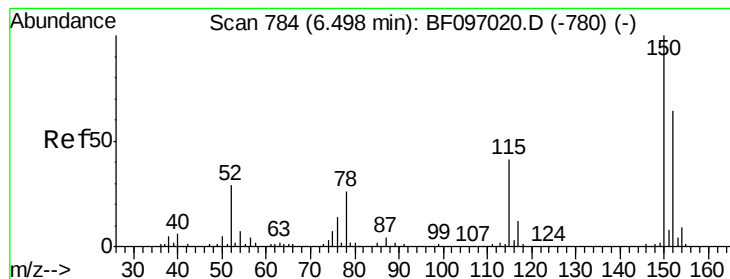
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.80	128	248329	10.45	ng	100
35) Caprolactam	8.23	113	6666	3.02	ng	# 1
37) 2-Methylnaphthalene	8.50	142	993515	66.00	ng	98
45) 1,1'-Biphenyl	8.96	154	50908	3.01	ng	98
51) Acenaphthene	9.56	154	27702	2.46	ng	98
57) Fluorene	10.07	166	43291	3.85	ng	# 95
59) Diethylphthalate	9.96	149	30580	2.22	ng	98
70) Phenanthrene	11.02	178	98553	6.39	ng	99
74) Fluoranthene	12.20	202	114938	7.61	ng	98
77) Pyrene	12.43	202	101628	5.36	ng	97
80) Benzo(a)anthracene	13.62	228	47154	3.15	ng	97
82) Chrysene	13.65	228	48398	3.31	ng	97
87) Benzo(b)fluoranthene	14.62	252	61262	6.14	ng	# 92
88) Benzo(k)fluoranthene	14.62	252	61262	6.44	ng	97
89) Benzo(a)pyrene	14.92	252	31053	3.40	ng	# 91
91) Benzo(g,h,i)perylene	16.56	276	17575	2.24	ng	93

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

```
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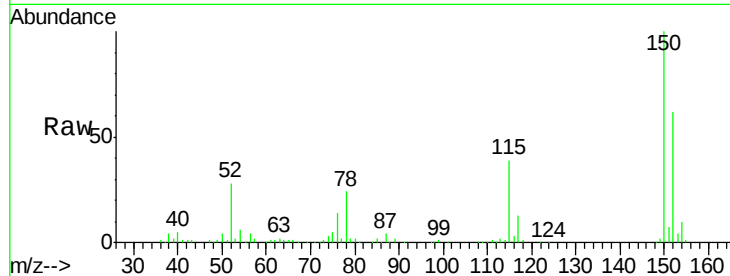


#1

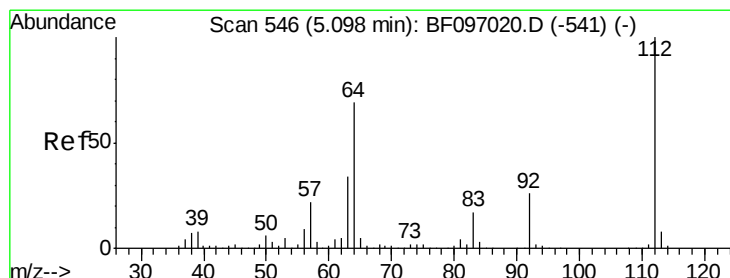
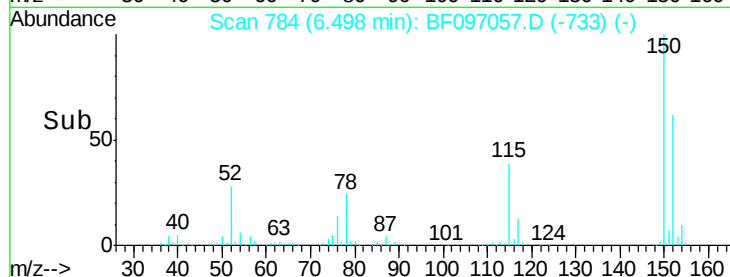
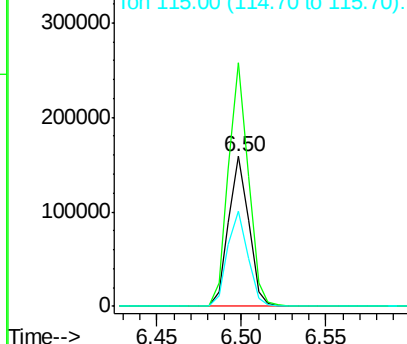
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.50 min Scan# 784
Delta R.T. -0.00 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 132024
Ion Ratio Lower Upper
152 100
150 162.2 126.2 189.2
115 63.7 52.2 78.2



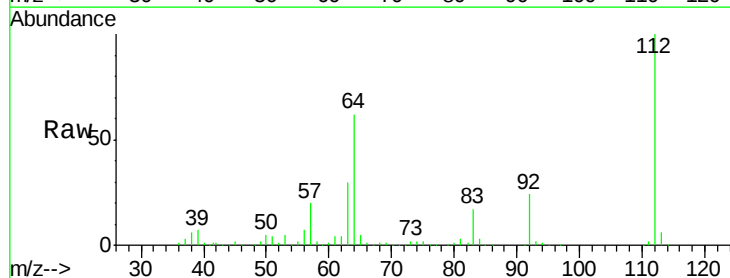
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



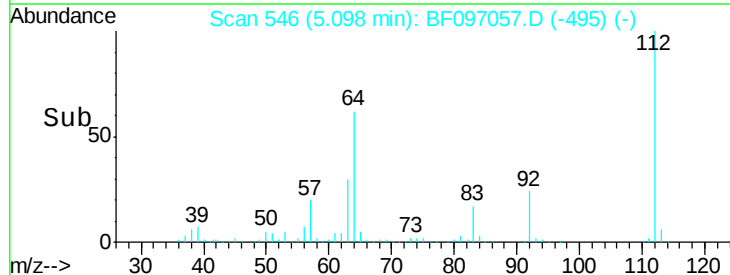
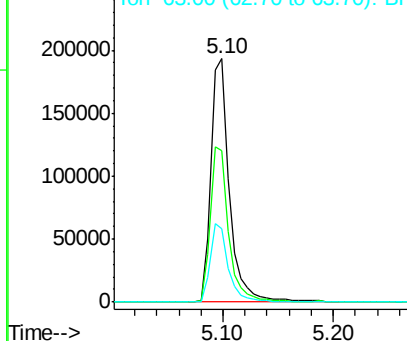
#5

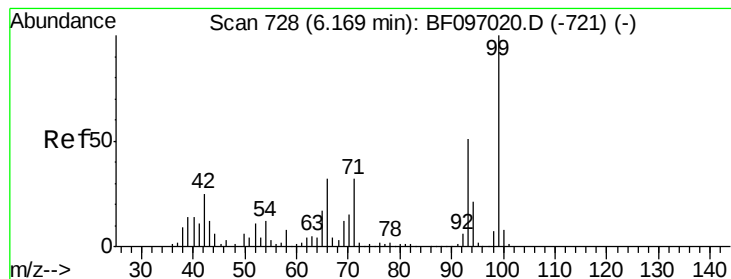
2-Fluorophenol
Concen: 25.28 ng
RT: 5.10 min Scan# 546
Delta R.T. 0.00 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Tgt Ion:112 Resp: 221363
Ion Ratio Lower Upper
112 100
64 62.4 46.0 69.0
63 30.2 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: 26.55 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

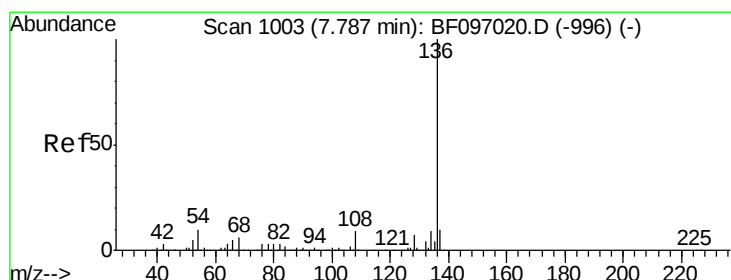
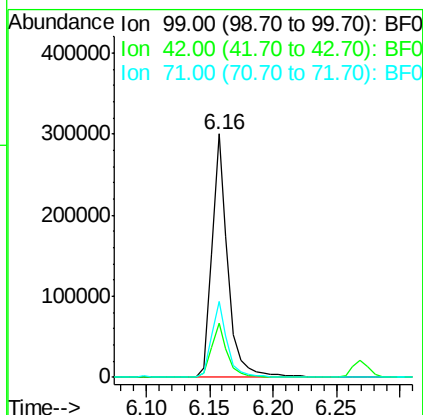
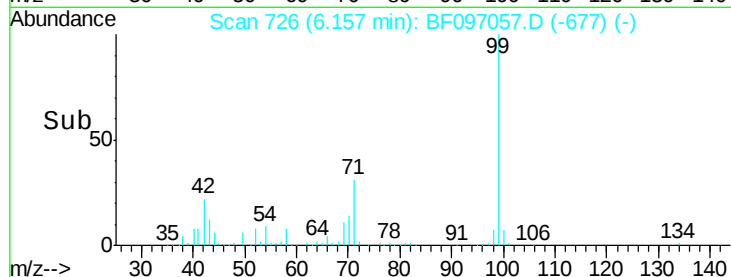
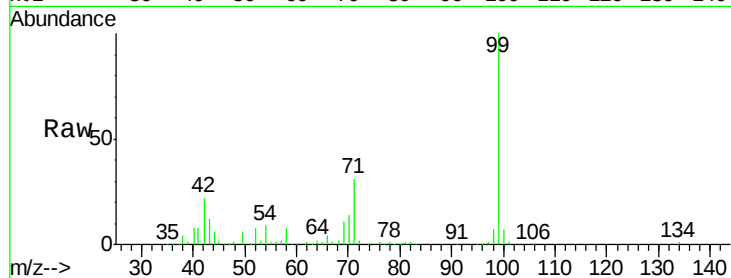
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 265422

Ion	Ratio	Lower	Upper
99	100		
42	22.5	13.5	20.3#
71	31.1	24.5	36.7



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 1002

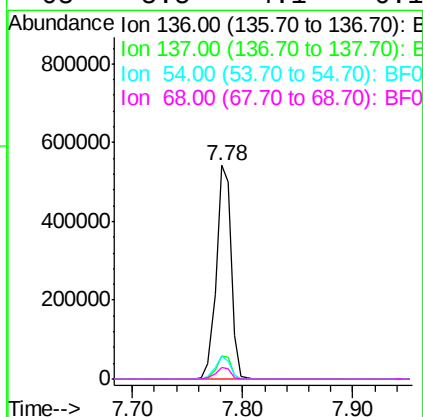
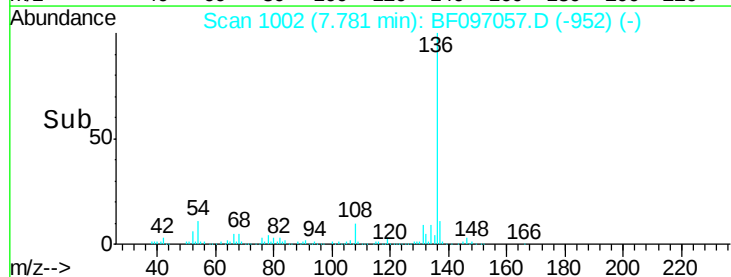
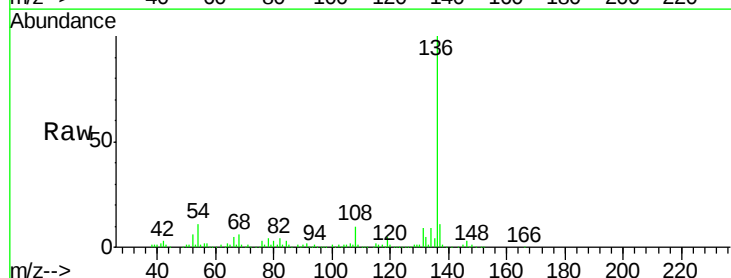
Delta R.T. -0.01 min

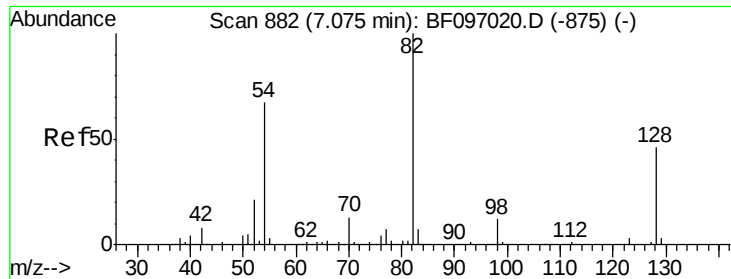
Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Tgt Ion: 136 Resp: 504337

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.5	12.7
54	10.8	4.9	7.3#
68	5.5	4.1	6.1

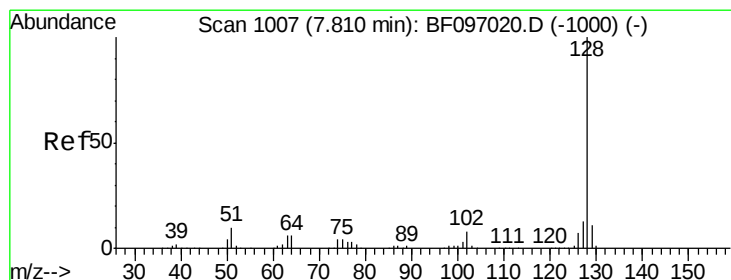
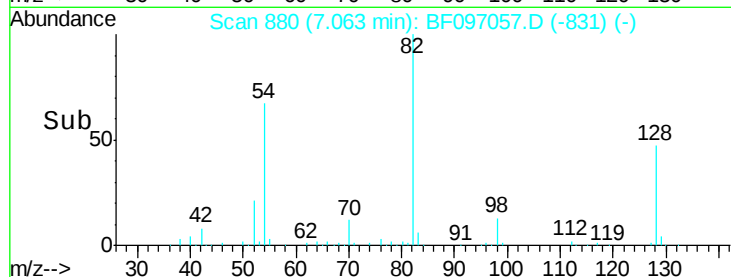
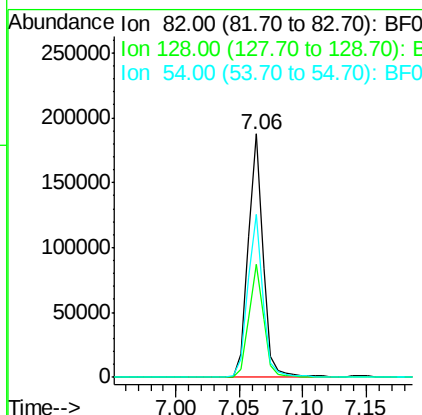
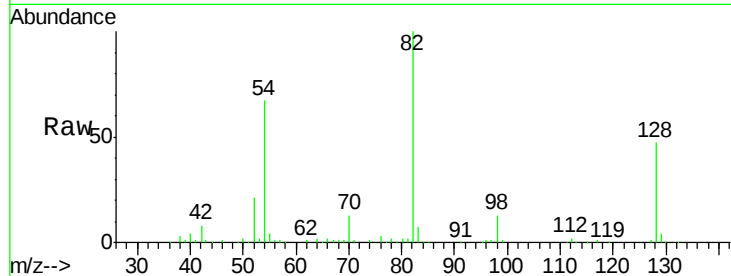




#23
 Nitrobenzene-d5
 Concen: 17.87 ng
 RT: 7.06 min Scan# 880
 Delta R.T. -0.01 min
 Lab File: BF097057.D
 Acq: 26 Jul 2017 5:11

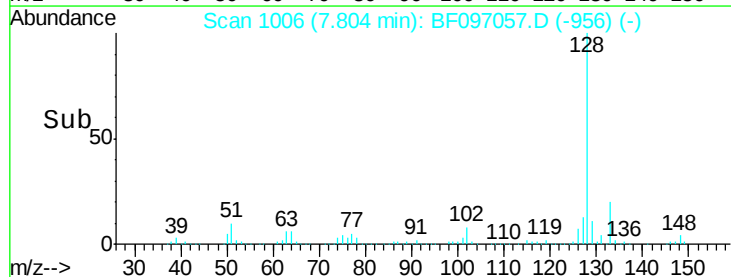
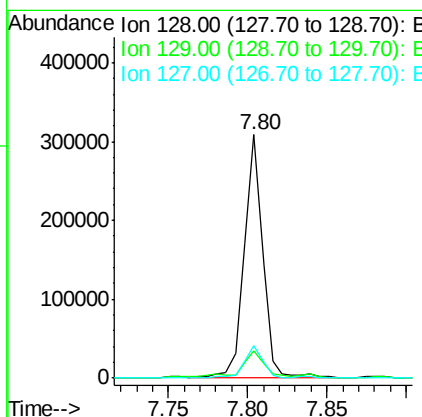
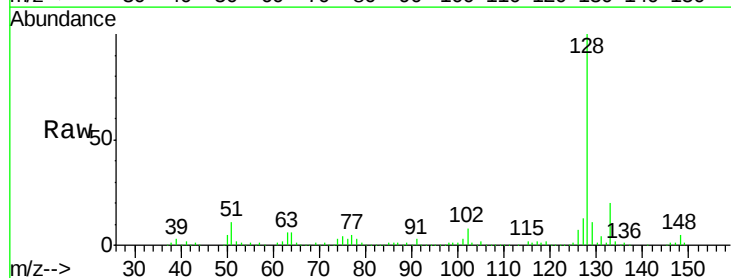
Instrument :
 BNA_F
 ClientSampleId :

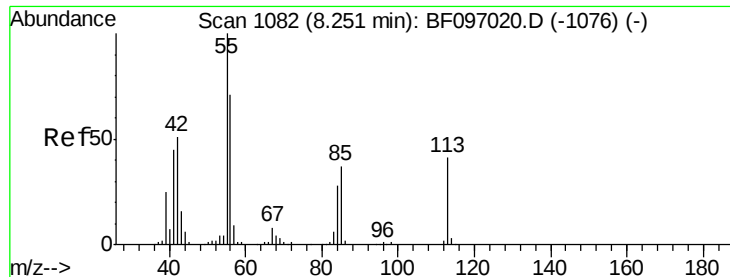
Tot Ion: 82 Resp: 153605
 Ion Ratio Lower Upper
 82 100
 128 46.6 34.0 51.0
 54 67.0 42.2 63.2#



#31
 Naphthalene
 Concen: 10.45 ng
 RT: 7.80 min Scan# 1006
 Delta R.T. -0.01 min
 Lab File: BF097057.D
 Acq: 26 Jul 2017 5:11

Tgt Ion: 128 Resp: 248329
 Ion Ratio Lower Upper
 128 100
 129 11.5 9.0 13.6
 127 13.5 10.8 16.2





#35

Caprolactam

Concen: 3.02 ng

RT: 8.23 min Scan# 1079

Delta R.T. -0.02 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampled :

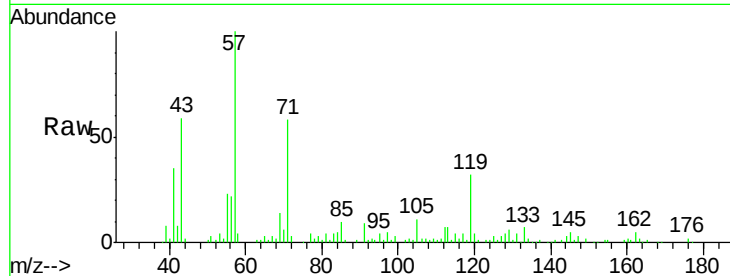
Tot Ion:113 Resp: 6666

Ion Ratio Lower Upper

113 100

55 351.0 150.2 190.2#

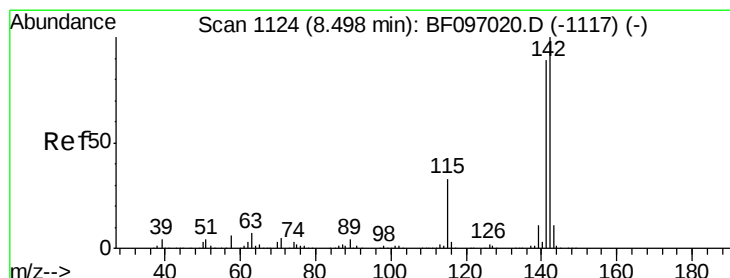
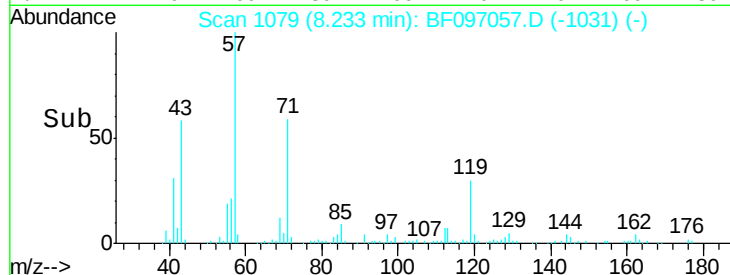
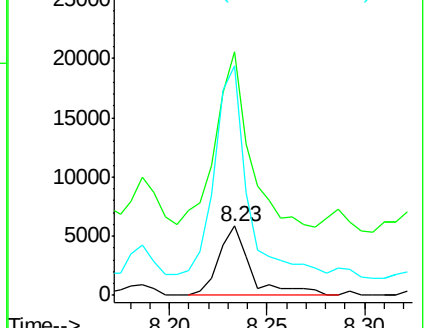
56 330.5 107.8 147.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#37

2-Methylnaphthalene

Concen: 66.00 ng

RT: 8.50 min Scan# 1125

Delta R.T. 0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

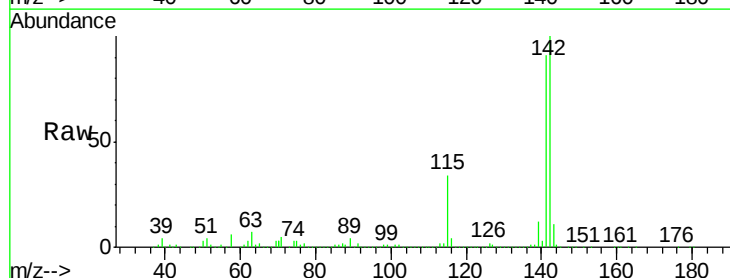
Tgt Ion:142 Resp: 993515

Ion Ratio Lower Upper

142 100

141 91.0 71.3 106.9

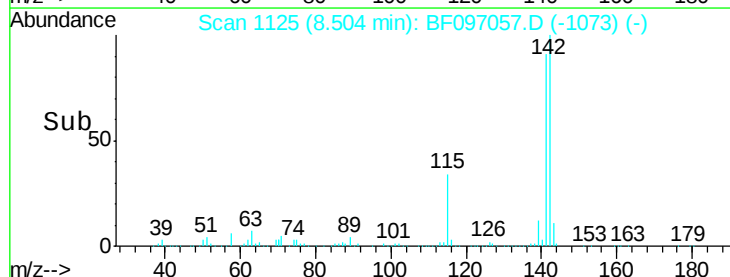
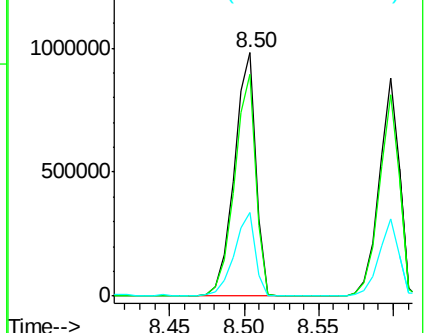
115 34.1 27.1 40.7

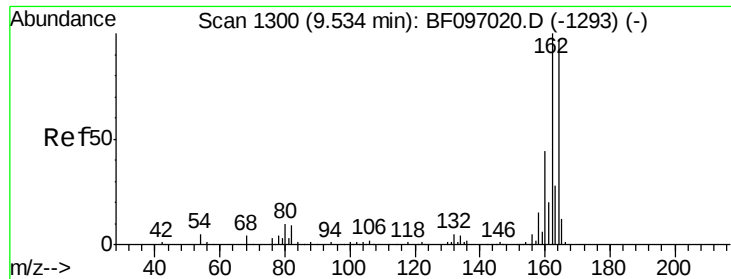


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.53 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampleId :

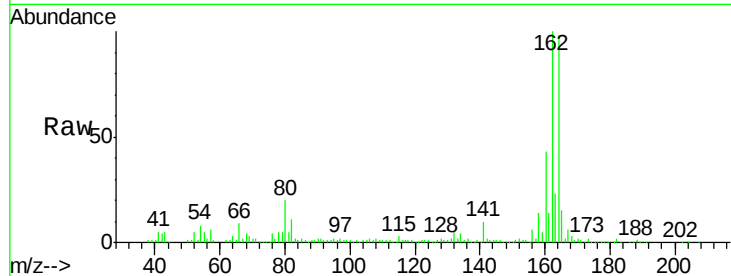
Tot Ion:164 Resp: 197777

Ion Ratio Lower Upper

164 100

162 102.2 82.6 123.8

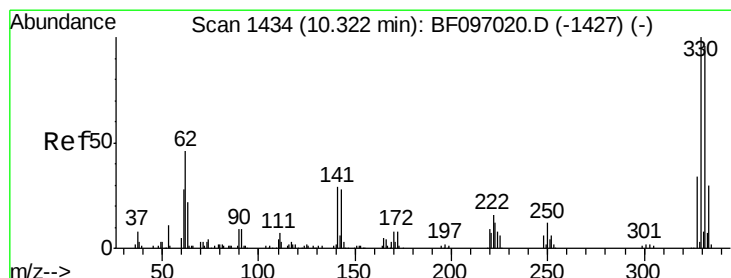
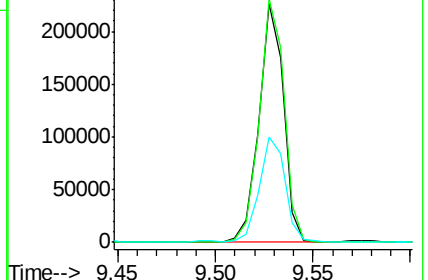
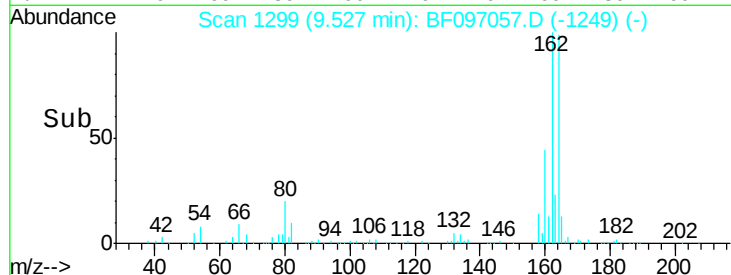
160 44.2 36.2 54.2



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: 23.32 ng

RT: 10.31 min Scan# 1432

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

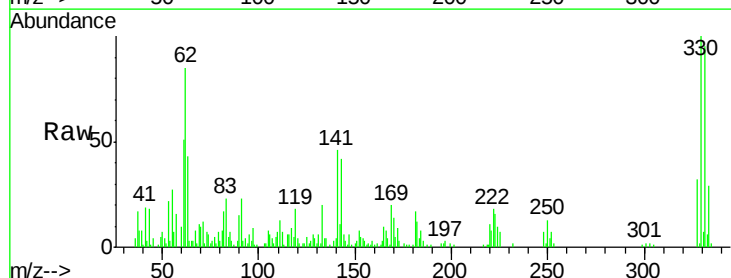
Tgt Ion:330 Resp: 36441

Ion Ratio Lower Upper

330 100

332 95.8 76.6 115.0

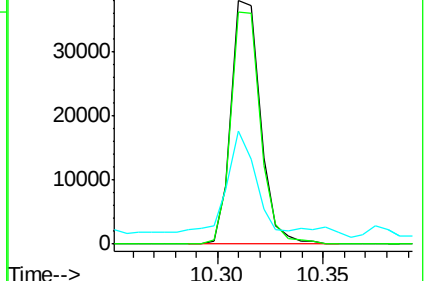
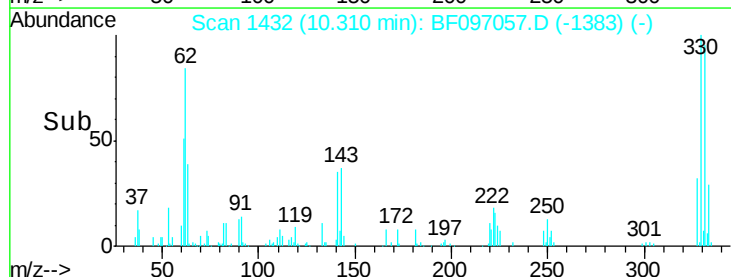
141 38.0 31.4 47.2

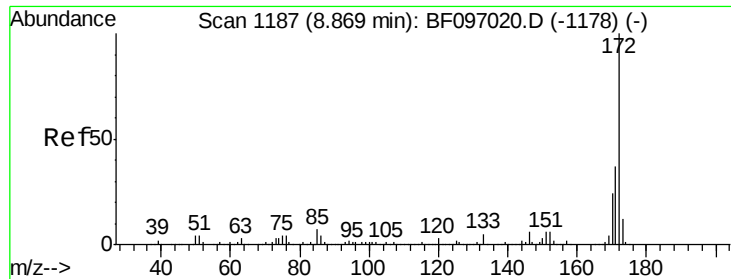


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

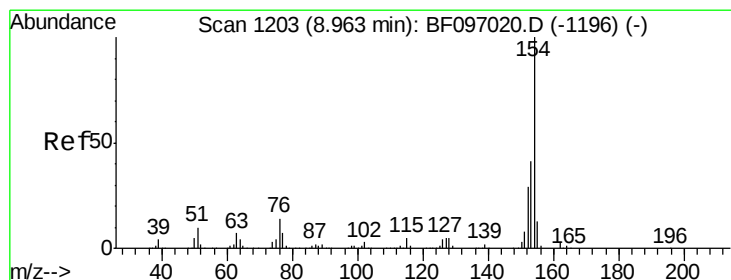
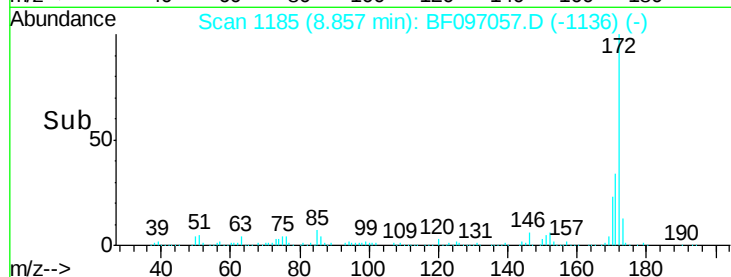
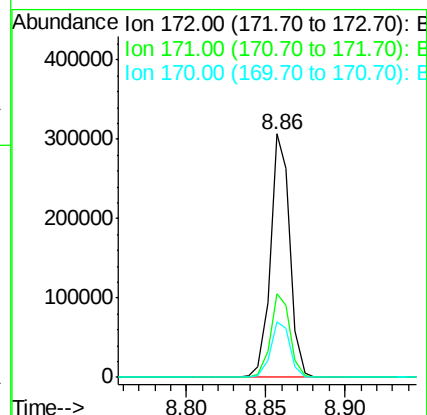
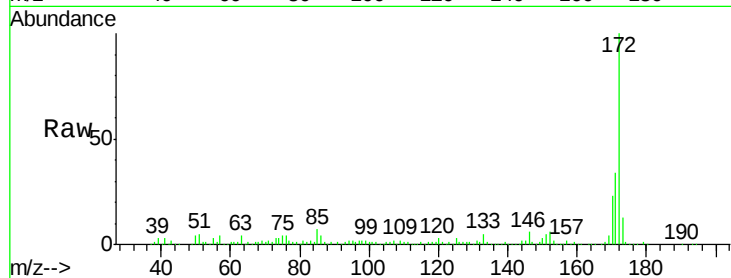




#44
2-Fluorobiphenyl
Concen: 22.64 ng
RT: 8.86 min Scan# 1185
Delta R.T. -0.01 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

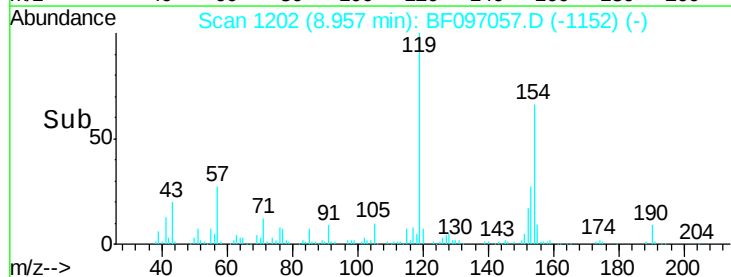
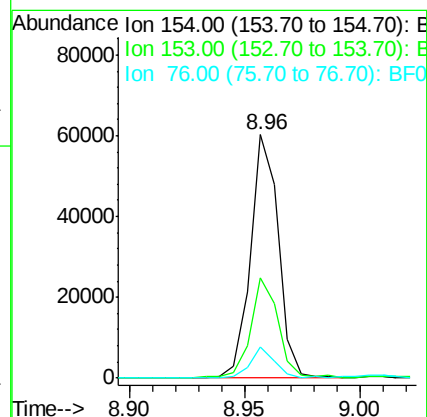
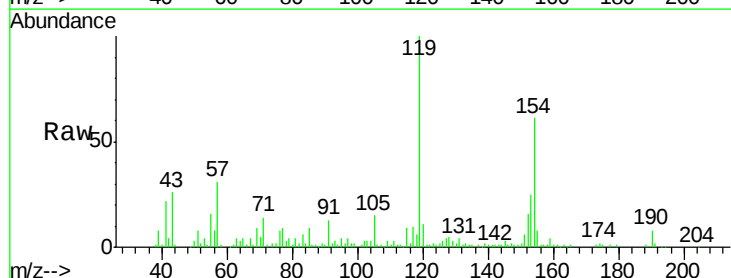
Instrument :
BNA_F
ClientSampleId :

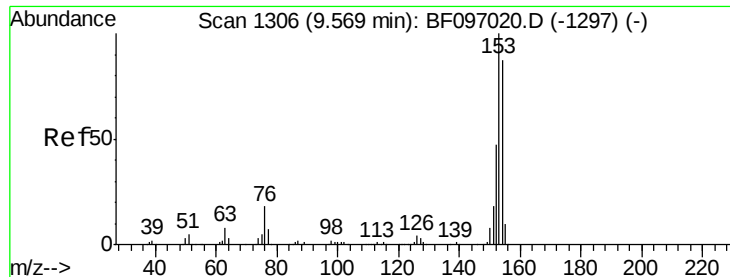
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.4	29.6	44.4
170	23.0	19.8	29.8



#45
1,1'-Biphenyl
Concen: 3.01 ng
RT: 8.96 min Scan# 1202
Delta R.T. -0.01 min
Lab File: BF097057.D
Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.2	61.2
76	12.9	0.0	29.9





#51

Acenaphthene

Concen: 2.46 ng

RT: 9.56 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampled :

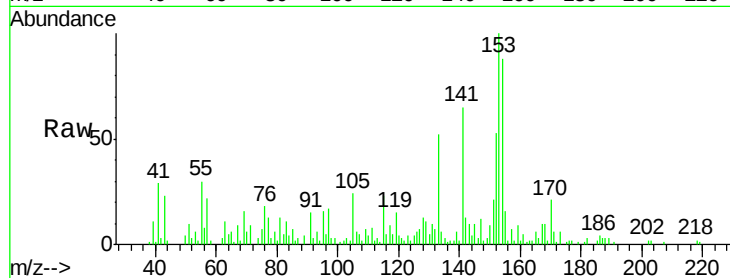
Tot Ion:154 Resp: 27702

Ion Ratio Lower Upper

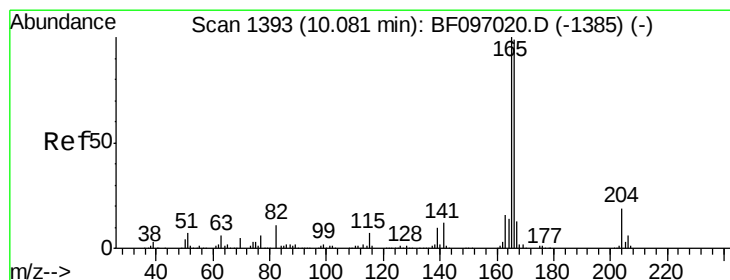
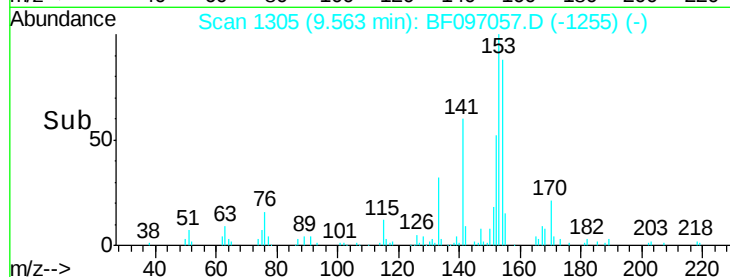
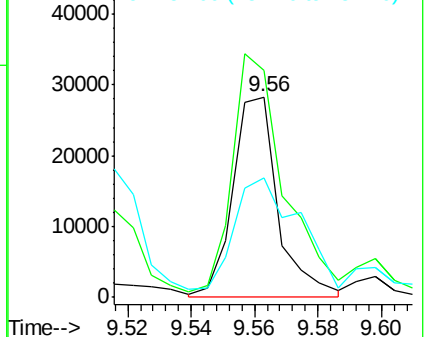
154 100

153 113.2 90.5 135.7

152 59.5 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 3.85 ng

RT: 10.07 min Scan# 1392

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

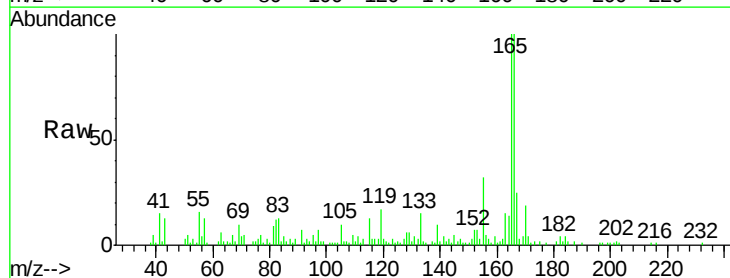
Tgt Ion:166 Resp: 43291

Ion Ratio Lower Upper

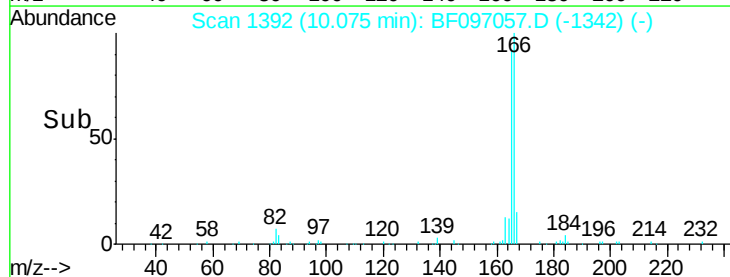
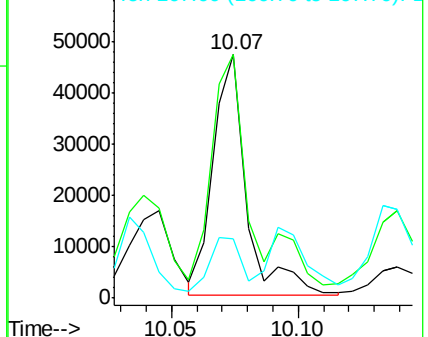
166 100

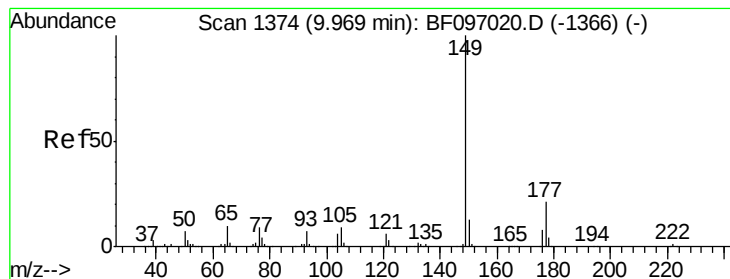
165 100.1 78.8 118.2

167 24.6 10.6 16.0#



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





#59

Diethylphthalate

Concen: 2.22 ng

RT: 9.96 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampleId :

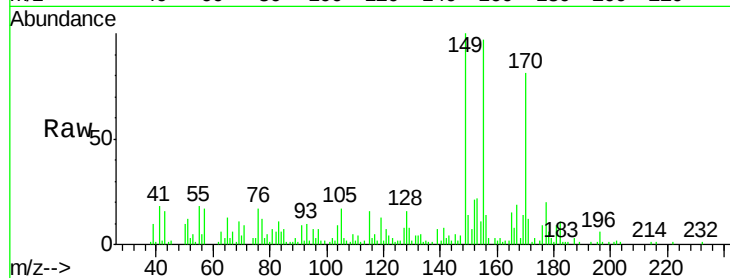
Tot Ion:149 Resp: 30580

Ion Ratio Lower Upper

149 100

177 20.3 16.7 25.1

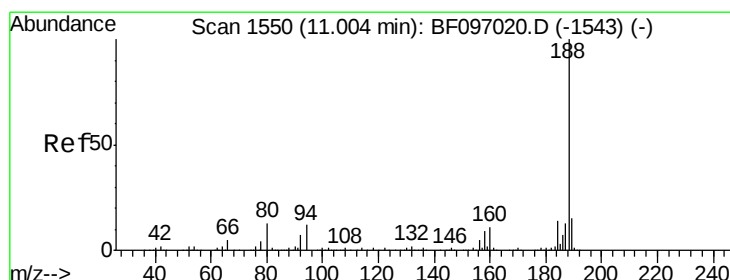
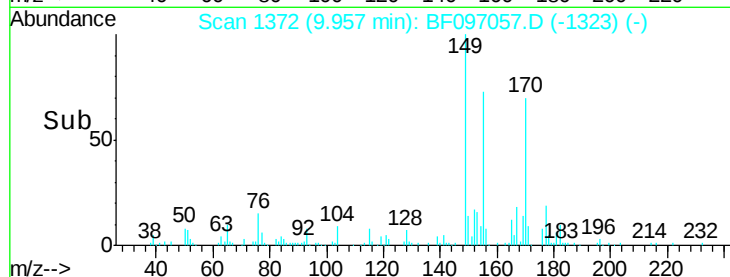
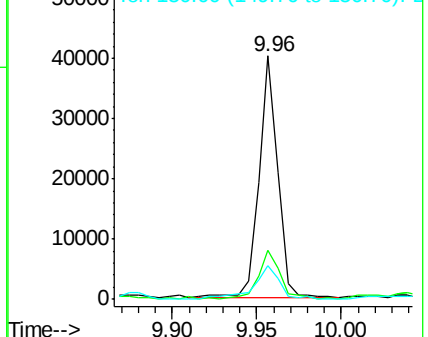
150 13.8 10.2 15.2



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.00 min Scan# 1550

Delta R.T. -0.00 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

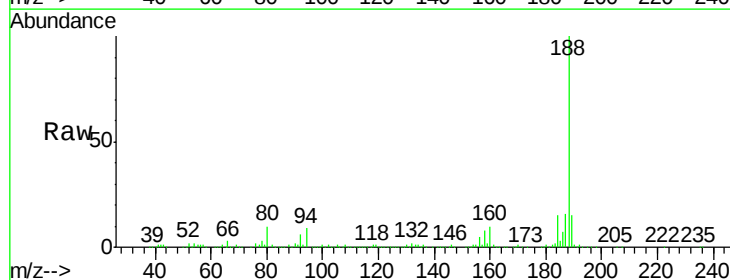
Tgt Ion:188 Resp: 287871

Ion Ratio Lower Upper

188 100

94 9.4 9.4 14.2#

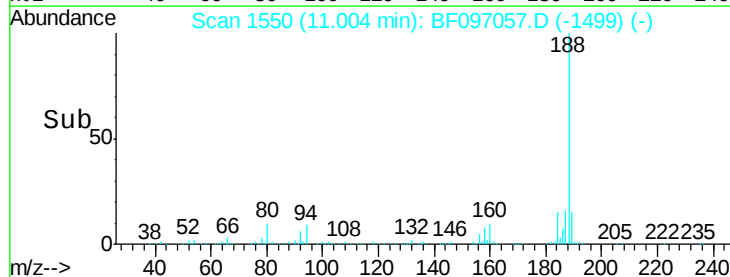
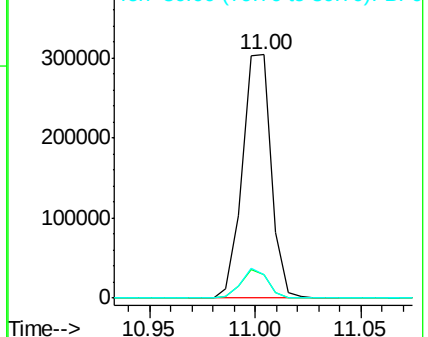
80 9.6 10.2 15.2#

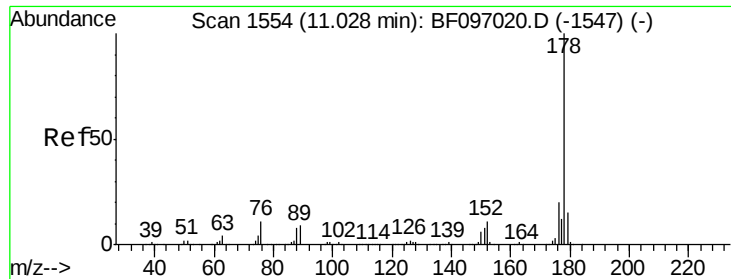


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 6.39 ng

RT: 11.02 min Scan# 1553

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

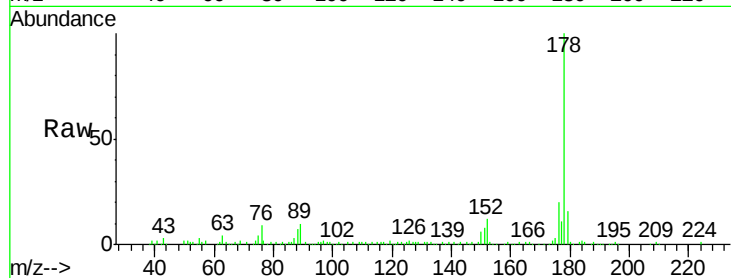
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 98553

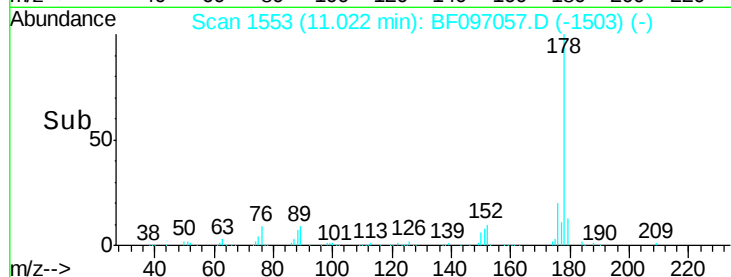
Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.2	24.4
179	15.7	12.6	19.0



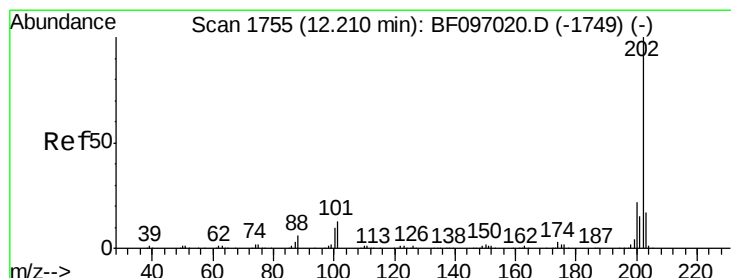
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#74

Fluoranthene

Concen: 7.61 ng

RT: 12.20 min Scan# 1754

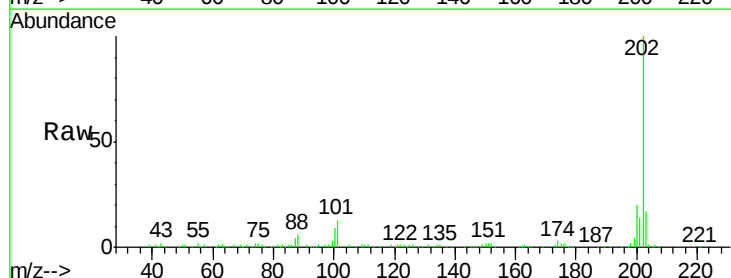
Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Tgt Ion:202 Resp: 114938

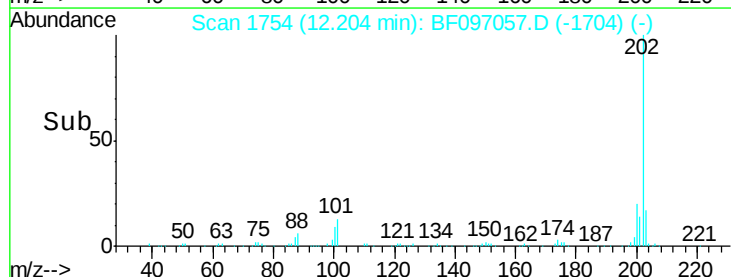
Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	33.2
203	17.2	0.0	38.1



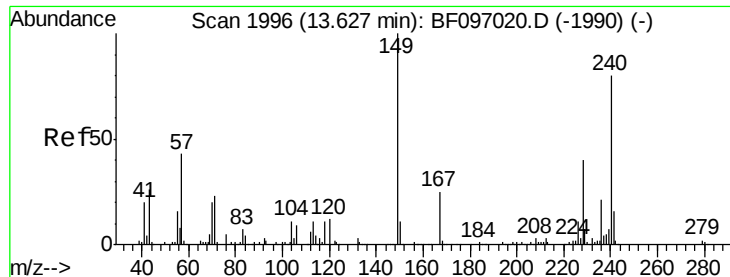
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.62 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampled :

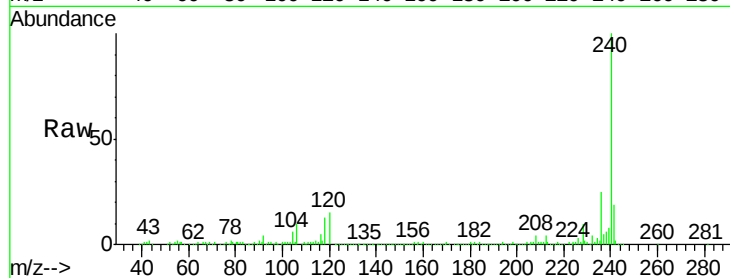
Tot Ion:240 Resp: 231556

Ion Ratio Lower Upper

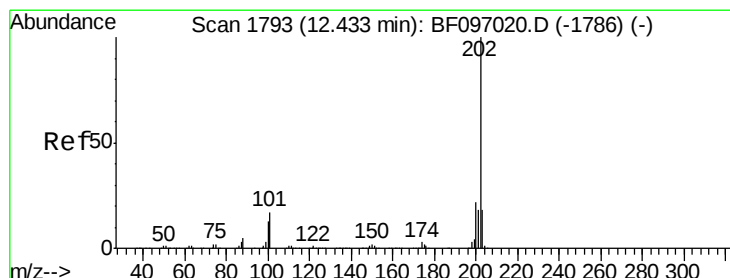
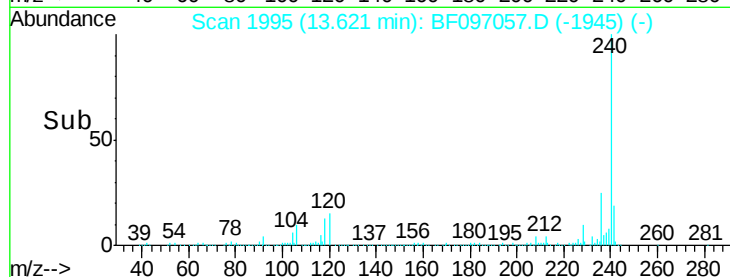
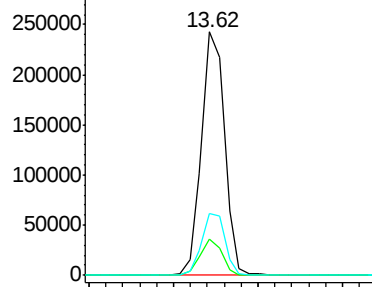
240 100

120 15.1 5.8 8.8#

236 25.5 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 5.36 ng

RT: 12.43 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

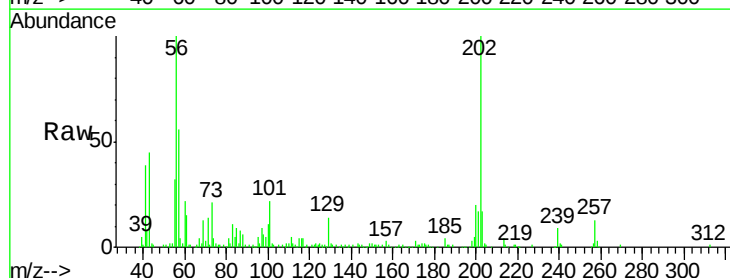
Tgt Ion:202 Resp: 101628

Ion Ratio Lower Upper

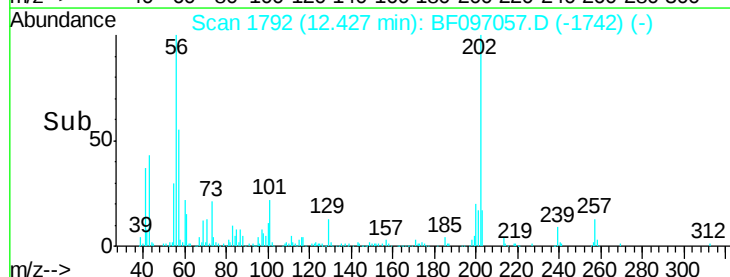
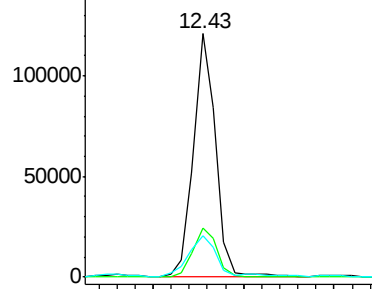
202 100

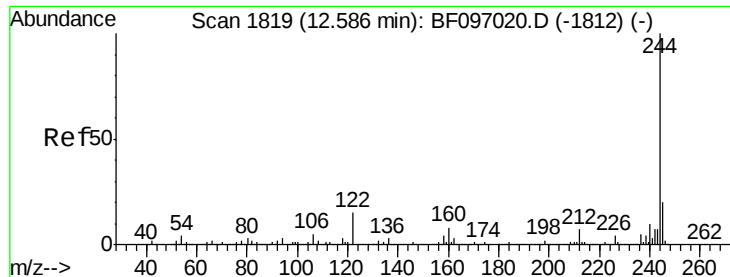
200 20.2 17.6 26.4

203 17.2 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

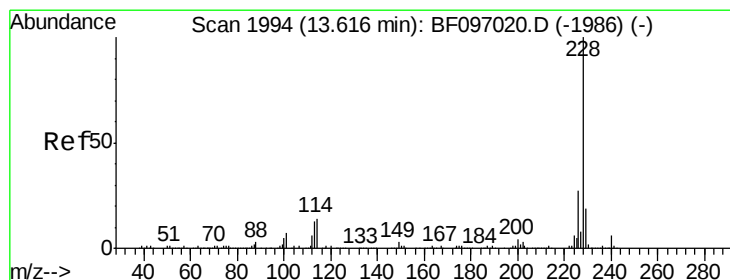
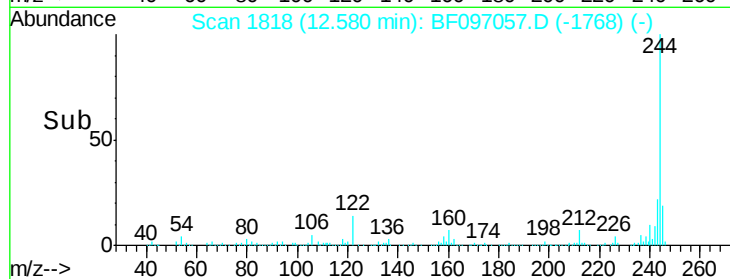
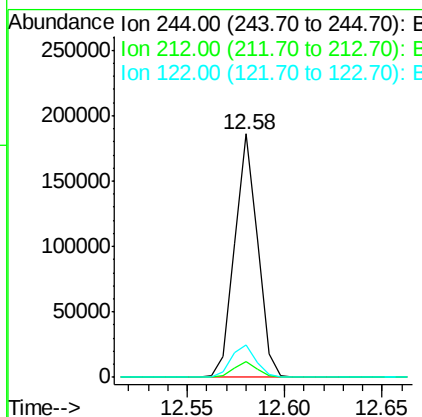
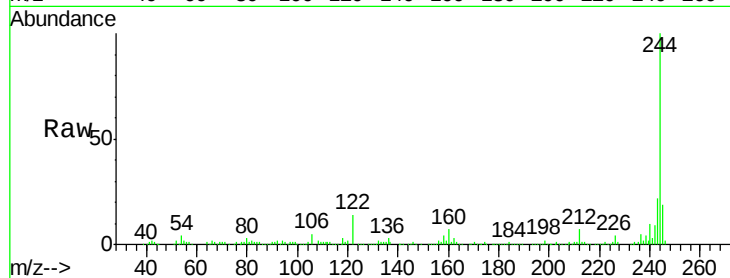




#78
 Terphenyl-d14
 Concen: 13.41 ng
 RT: 12.58 min Scan# 1818
 Delta R.T. -0.01 min
 Lab File: BF097057.D
 Acq: 26 Jul 2017 5:11

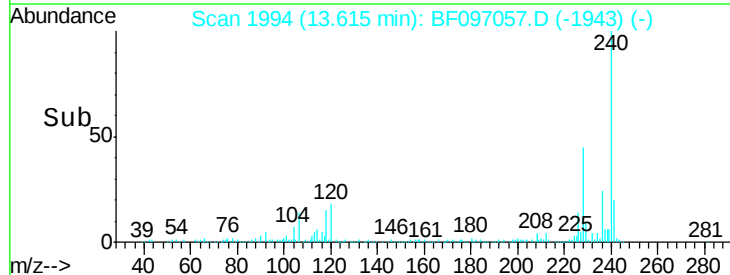
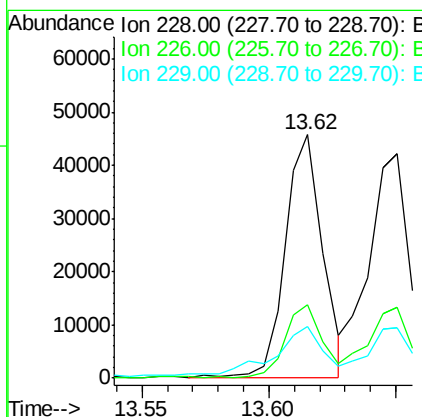
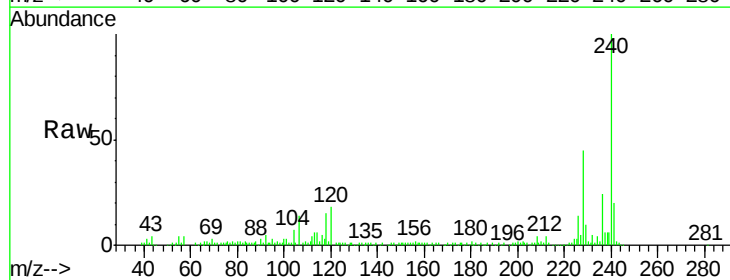
Instrument :
 BNA_F
 ClientSampled :

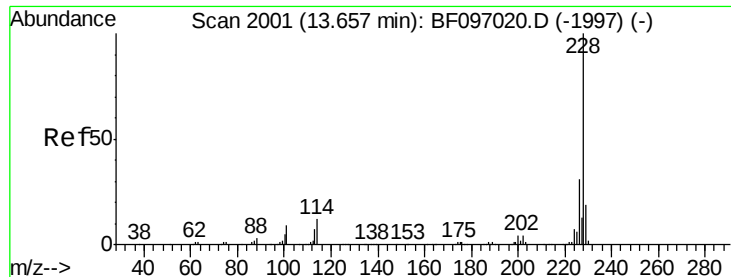
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.0	9.0
122	13.5	10.3	15.5



#80
 Benzo(a)anthracene
 Concen: 3.15 ng
 RT: 13.62 min Scan# 1994
 Delta R.T. -0.00 min
 Lab File: BF097057.D
 Acq: 26 Jul 2017 5:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.6	33.8
229	21.4	16.3	24.5





#82

Chrysene

Concen: 3.31 ng

RT: 13.65 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampleId :

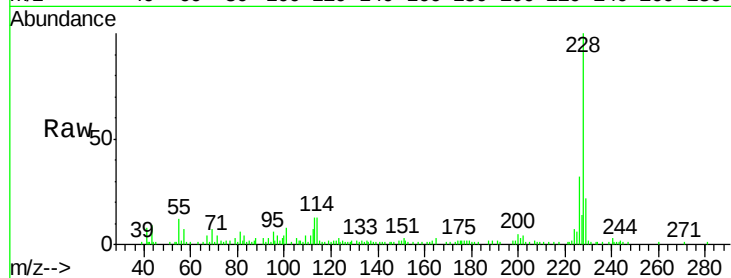
Tot Ion:228 Resp: 48398

Ion Ratio Lower Upper

228 100

226 31.6 24.9 37.3

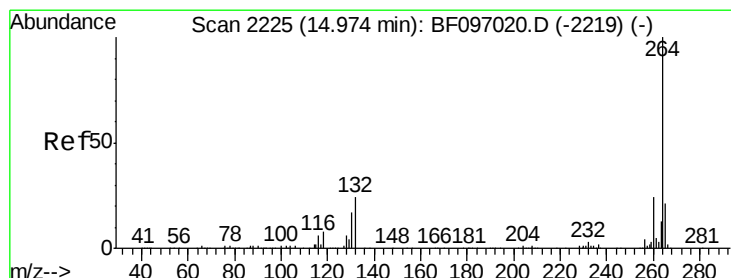
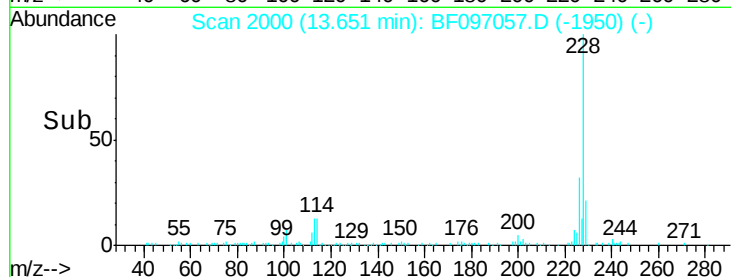
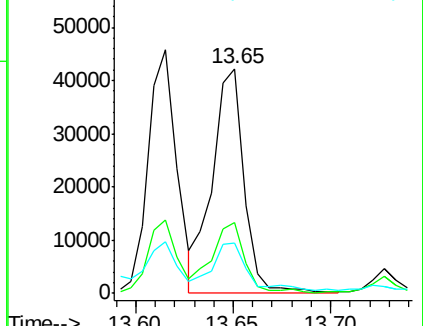
229 22.5 15.8 23.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 14.97 min Scan# 2225

Delta R.T. -0.00 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

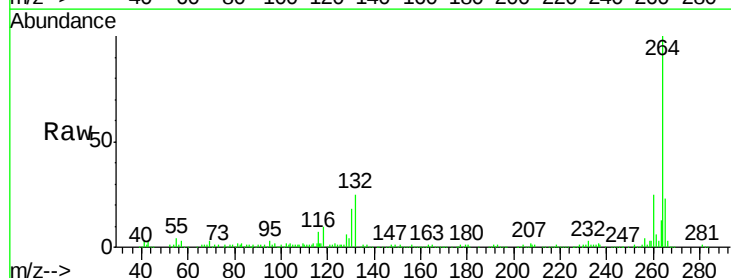
Tgt Ion:264 Resp: 166096

Ion Ratio Lower Upper

264 100

260 24.6 19.5 29.3

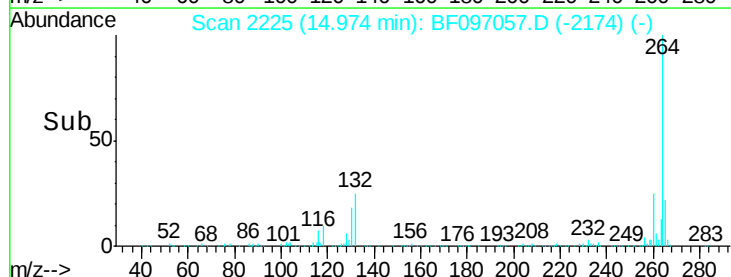
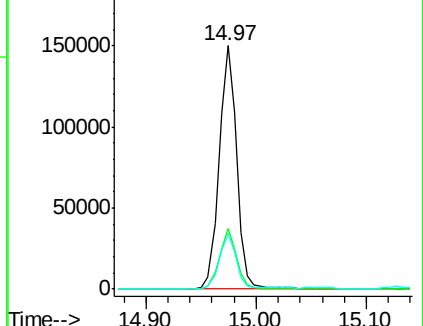
265 22.7 17.2 25.8

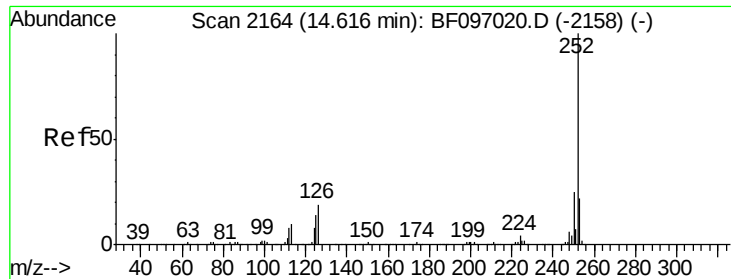


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 6.14 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.00 min

Lab File: BF097057.D

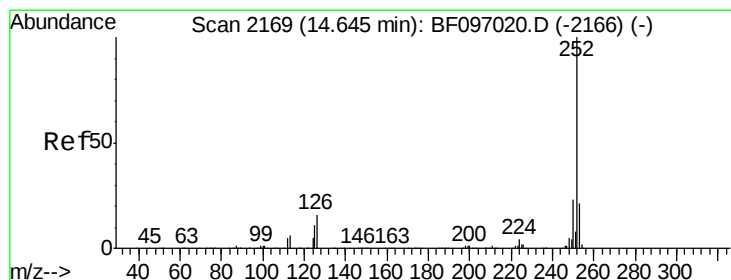
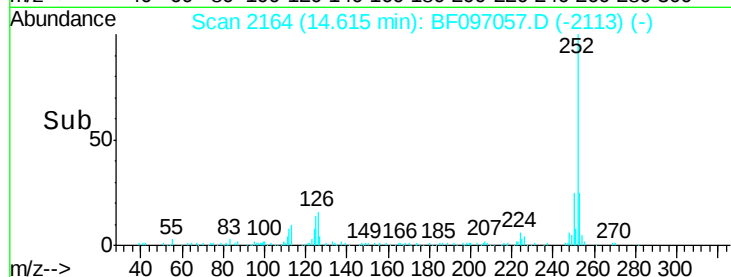
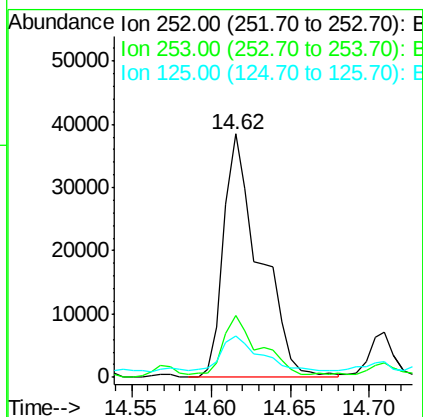
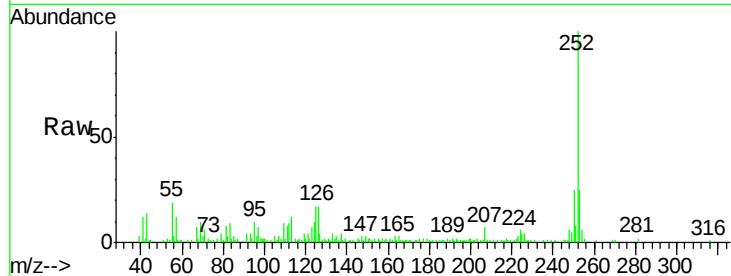
Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	61262
Ion Ratio	Lower	Upper
252	100	
253	25.3	18.1 27.1
125	17.0	9.8 14.8#



#88

Benzo(k)fluoranthene

Concen: 6.44 ng

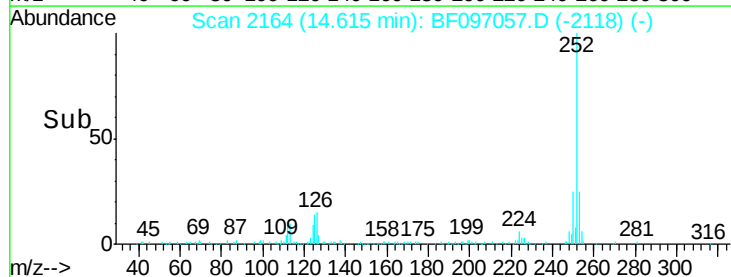
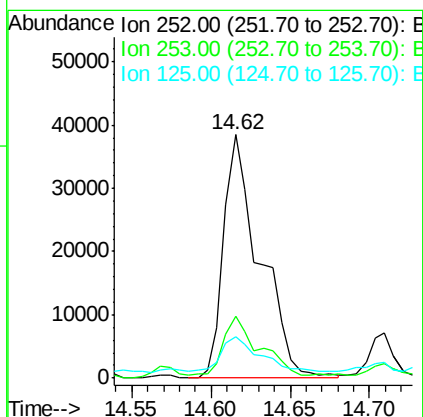
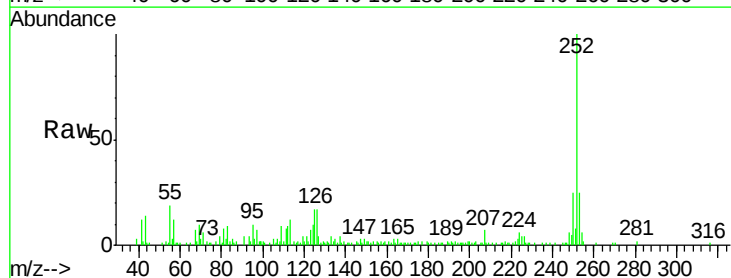
RT: 14.62 min Scan# 2164

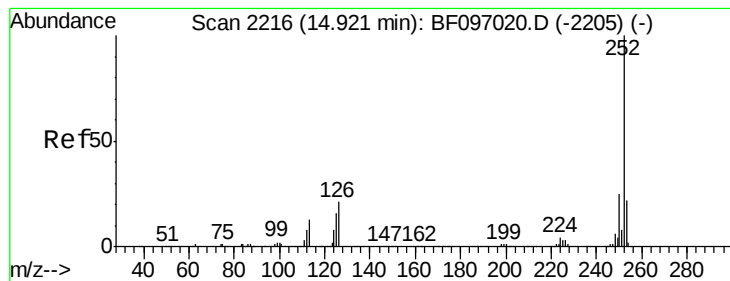
Delta R.T. -0.03 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Tgt Ion:252	Resp:	61262
Ion Ratio	Lower	Upper
252	100	
253	25.3	18.4 27.6
125	17.0	13.1 19.7





#89

Benzo(a)pyrene

Concen: 3.40 ng

RT: 14.92 min Scan# 2216

Delta R.T. -0.00 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

Instrument :

BNA_F

ClientSampleId :

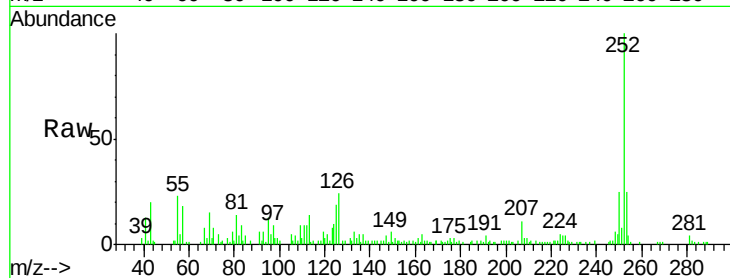
Tot Ion:252 Resp: 31053

Ion Ratio Lower Upper

252 100

253 24.8 17.5 26.3

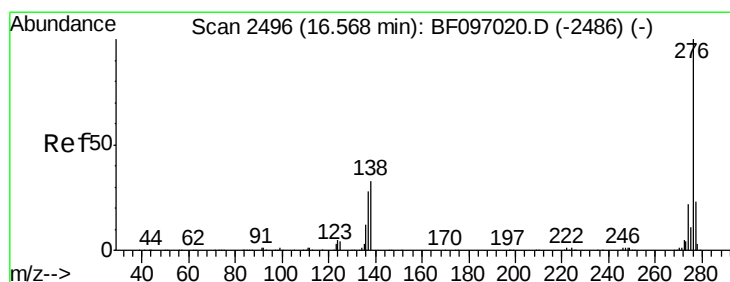
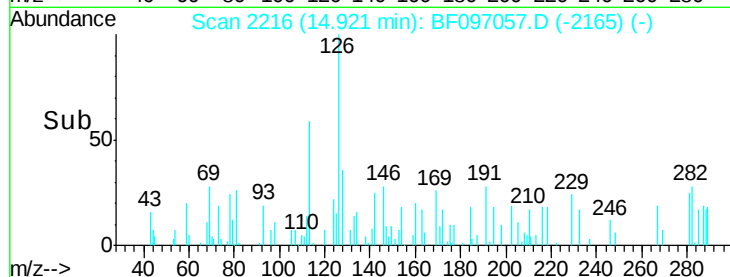
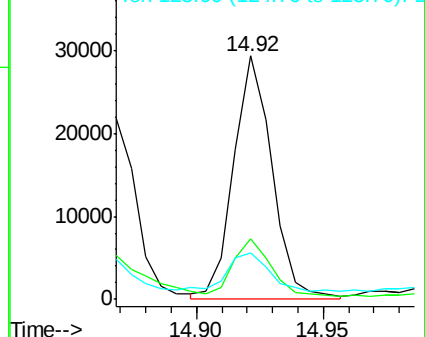
125 18.8 11.0 16.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.24 ng

RT: 16.56 min Scan# 2495

Delta R.T. -0.01 min

Lab File: BF097057.D

Acq: 26 Jul 2017 5:11

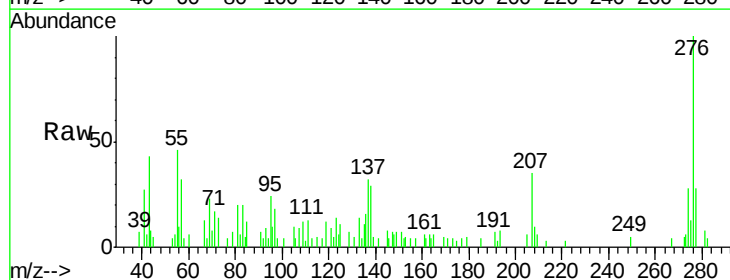
Tgt Ion:276 Resp: 17575

Ion Ratio Lower Upper

276 100

277 27.7 18.6 28.0

138 29.1 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

