

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\
 Data File : BF097058.D
 Acq On : 26 Jul 2017 5:39
 Operator : SJ/JU
 Sample : I4305-05 5X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 26 06:12:02 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	133881	20.00	ng	0.00
21) Naphthalene-d8	7.78	136	541869	20.00	ng	0.00
38) Acenaphthene-d10	9.53	164	200205	20.00	ng	0.00
63) Phenanthrene-d10	11.00	188	294849	20.00	ng	0.00
75) Chrysene-d12	13.62	240	226274	20.00	ng	0.00
86) Perylene-d12	14.97	264	181446	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.10	112	141471	15.93	ng	0.00
7) Phenol-d6	6.16	99	171264	16.89	ng	-0.01
23) Nitrobenzene-d5	7.06	82	99508	10.77	ng	-0.01
41) 2,4,6-Tribromophenol	10.32	330	21609	13.66	ng	0.00
44) 2-Fluorobiphenyl	8.86	172	159388	13.51	ng	-0.01
78) Terphenyl-d14	12.58	244	92078	8.30	ng	0.00

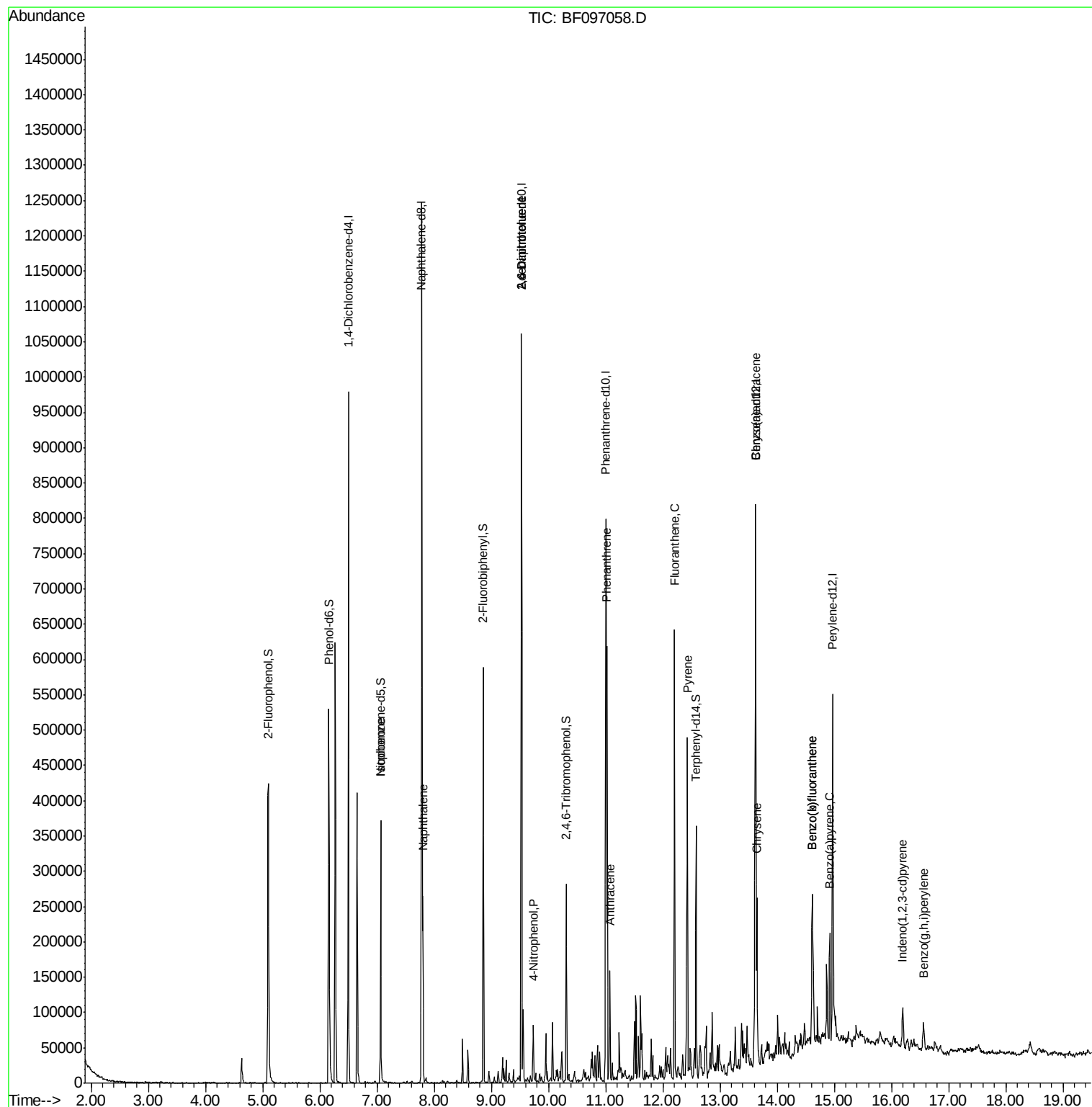
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.06	82	99365	5.49	ng	# 67
31) Naphthalene	7.80	128	106225	4.16	ng	98
50) 2,6-Dinitrotoluene	9.53	165	26263	8.14	ng	# 34
55) 4-Nitrophenol	9.73	139	10256	4.31	ng	# 28
56) 2,4-Dinitrotoluene	9.53	165	26263	7.09	ng	# 33
70) Phenanthrene	11.02	178	228151	14.44	ng	99
71) Anthracene	11.07	178	56606	3.50	ng	99
74) Fluoranthene	12.20	202	223585	14.45	ng	98
77) Pyrene	12.43	202	196010	10.58	ng	99
80) Benzo(a)anthracene	13.62	228	99150	6.77	ng	100
82) Chrysene	13.65	228	92161	6.45	ng	95
85) Indeno(1,2,3-cd)pyrene	16.20	276	30247	2.47	ng	96
87) Benzo(b)fluoranthene	14.62	252	120341	11.03	ng	# 98
88) Benzo(k)fluoranthene	14.62	252	120341	11.58	ng	98
89) Benzo(a)pyrene	14.92	252	63785	6.39	ng	99
91) Benzo(g,h,i)perylene	16.56	276	27322	3.18	ng	95

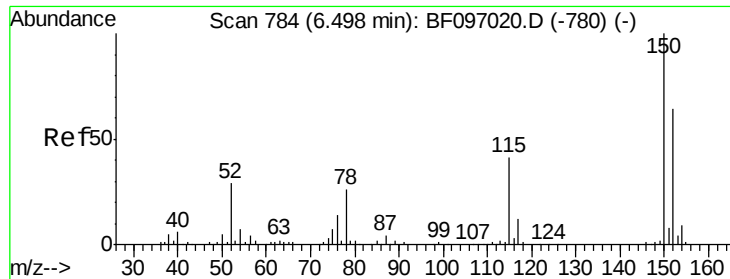
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

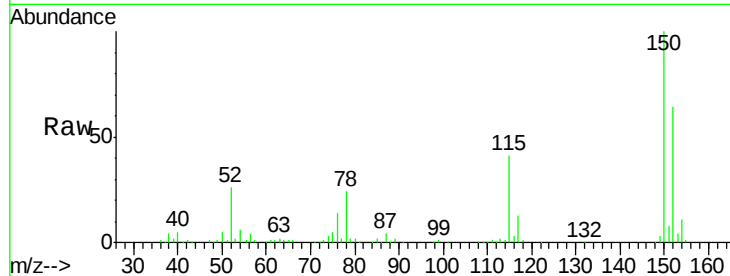
Tot Ion:152 Resp: 133881

Ion Ratio Lower Upper

152 100

150 155.7 126.2 189.2

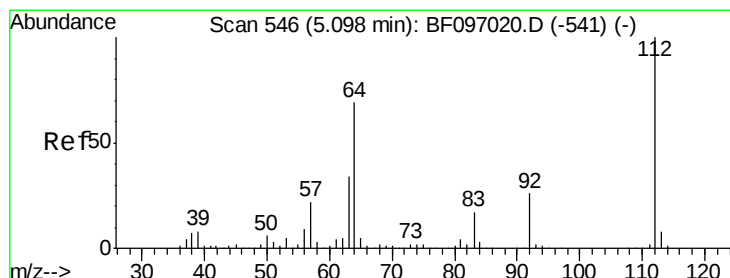
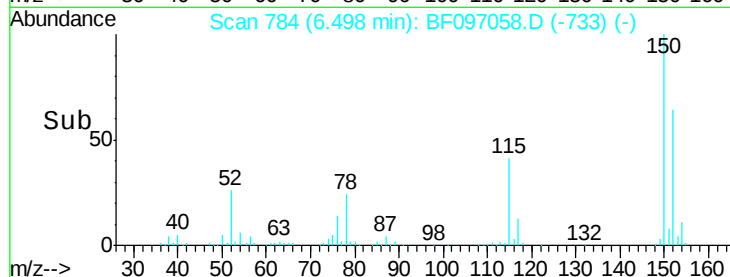
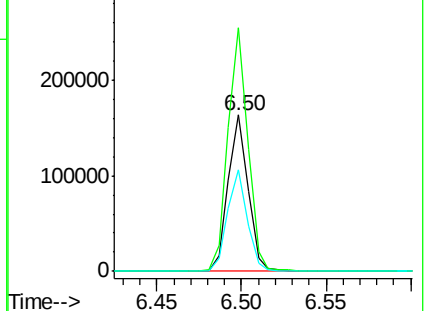
115 64.6 52.2 78.2



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: 15.93 ng

RT: 5.10 min Scan# 546

Delta R.T. 0.00 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

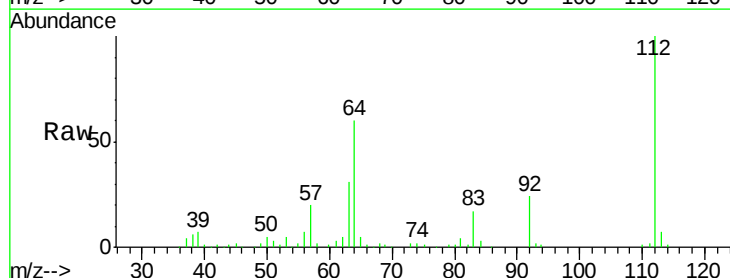
Tgt Ion:112 Resp: 141471

Ion Ratio Lower Upper

112 100

64 60.4 46.0 69.0

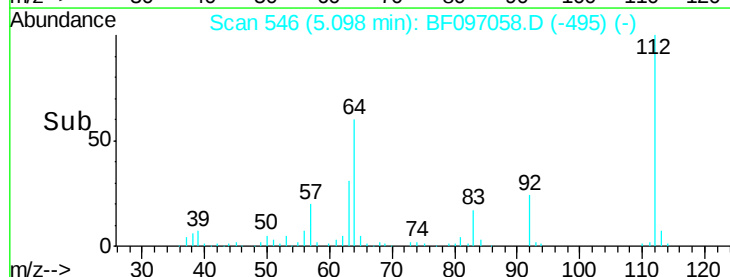
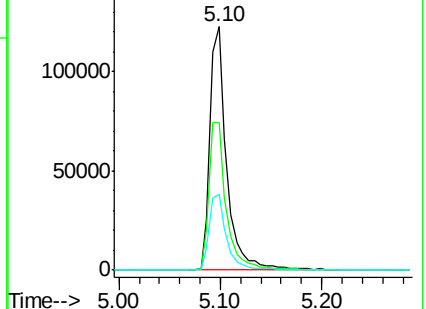
63 31.0 23.4 35.0

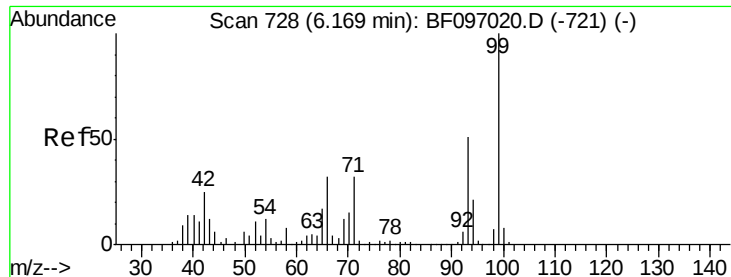


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 16.89 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampled :

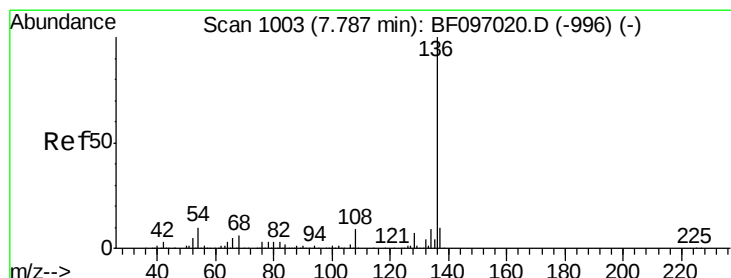
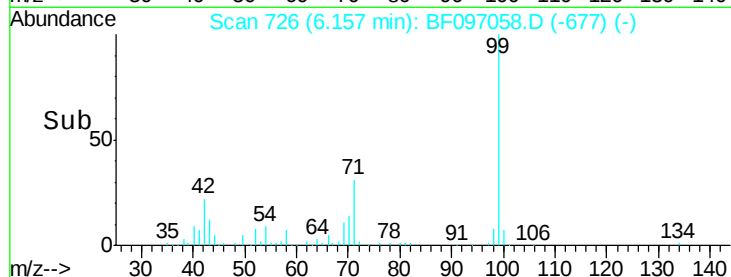
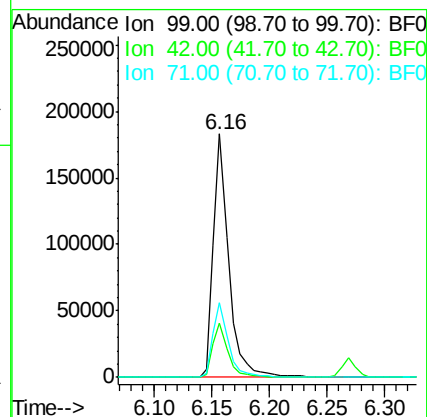
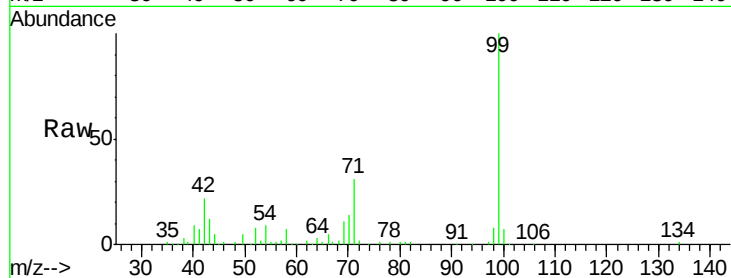
Tot Ion: 99 Resp: 171264

Ion Ratio Lower Upper

99 100

42 22.5 13.5 20.3#

71 30.8 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: BF097058.D

Acq: 26 Jul 2017 5:39

Tgt Ion: 136 Resp: 541869

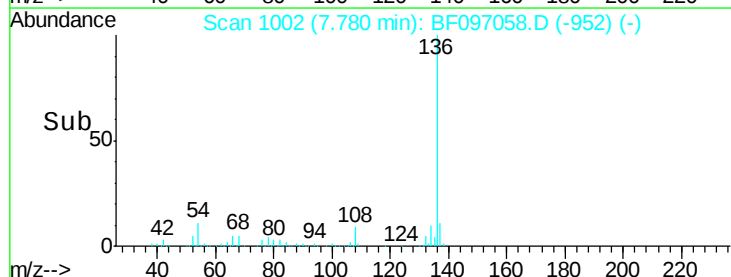
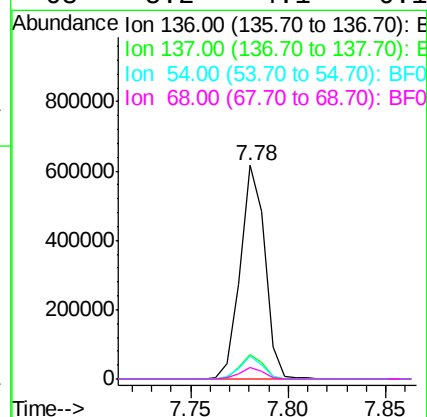
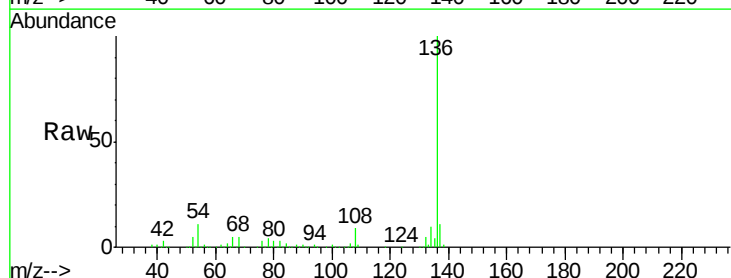
Ion Ratio Lower Upper

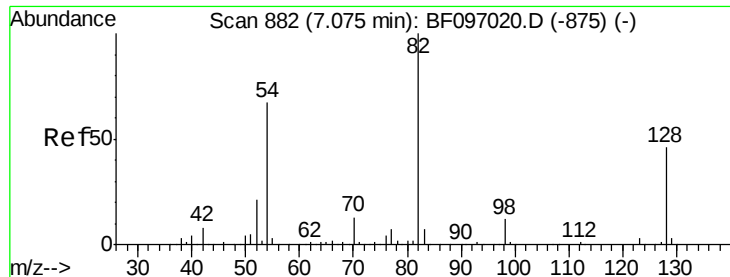
136 100

137 11.2 8.5 12.7

54 10.6 4.9 7.3#

68 5.2 4.1 6.1

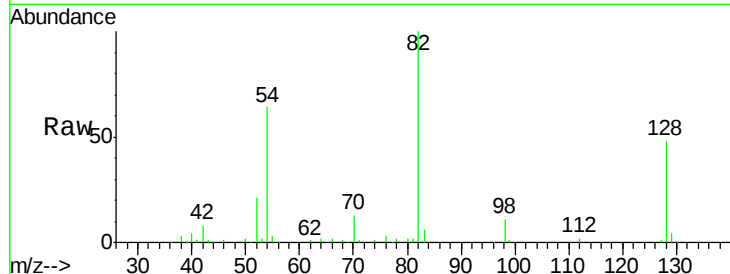




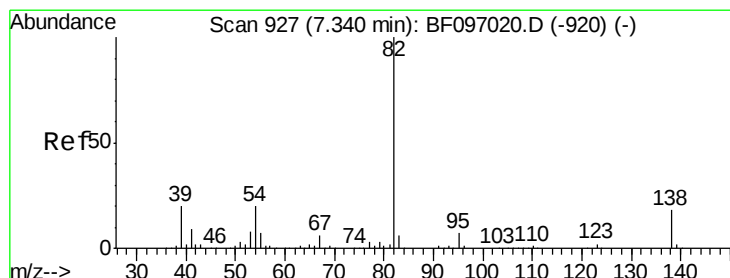
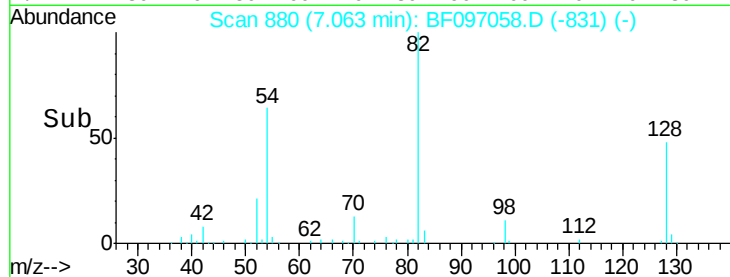
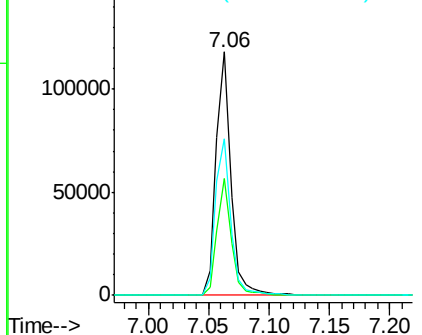
#23
Nitrobenzene-d5
Concen: 10.77 ng
RT: 7.06 min Scan# 880
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	99508
Ion Ratio	100	Lower	Upper
128	48.0	34.0	51.0
54	64.2	42.2	63.2#

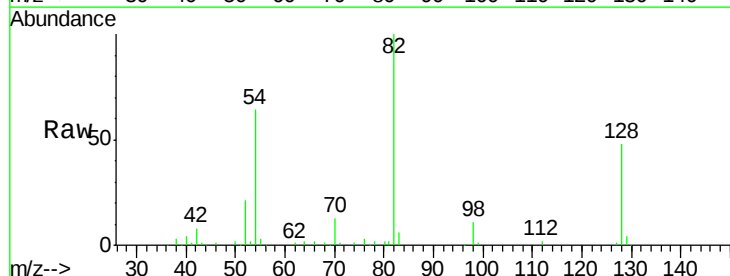


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

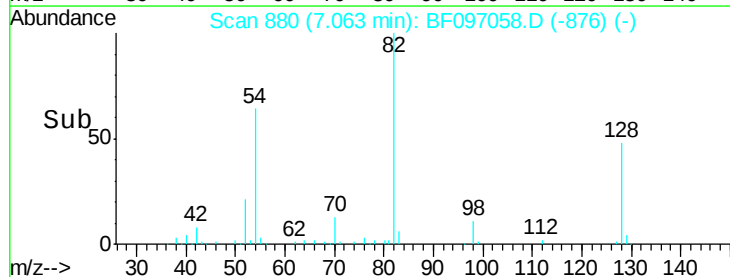
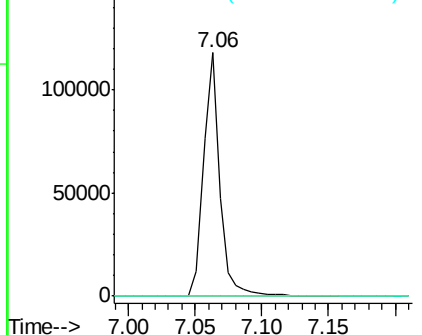


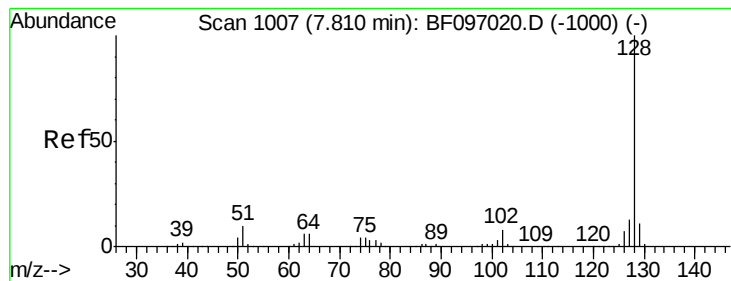
#25
Isophorone
Concen: 5.49 ng
RT: 7.06 min Scan# 880
Delta R.T. -0.28 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Tgt Ion	82	Resp	99365
Ion Ratio	100	Lower	Upper
95	0.0	5.3	7.9#
138	0.0	13.1	19.7#



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





#31

Naphthalene

Concen: 4.16 ng

RT: 7.80 min Scan# 1006

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

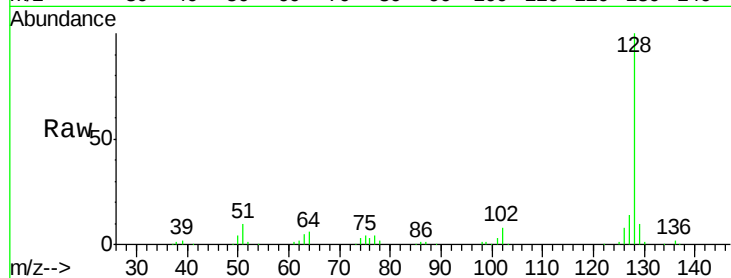
Tot Ion:128 Resp: 106225

Ion Ratio Lower Upper

128 100

129 10.2 9.0 13.6

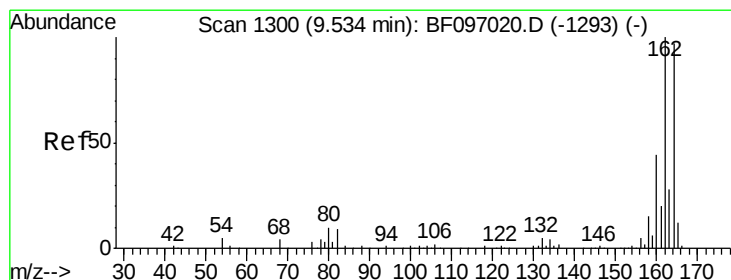
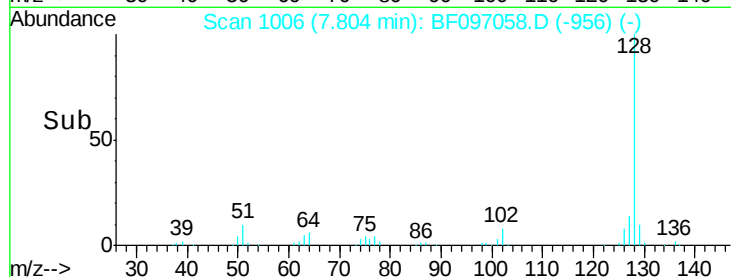
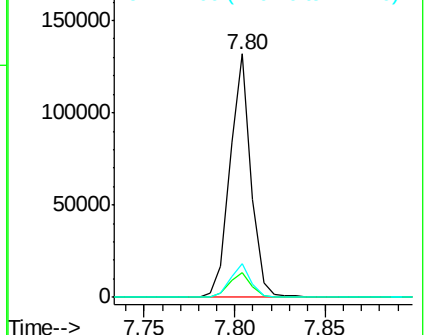
127 13.9 10.8 16.2



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.53 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

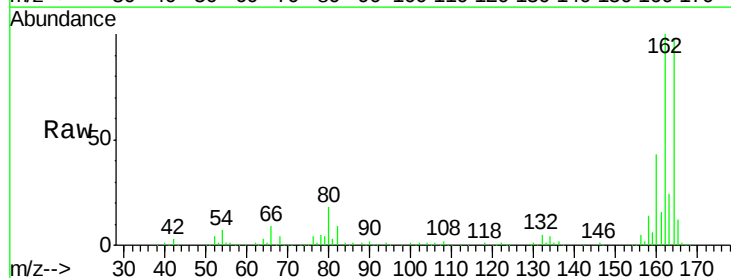
Tgt Ion:164 Resp: 200205

Ion Ratio Lower Upper

164 100

162 102.1 82.6 123.8

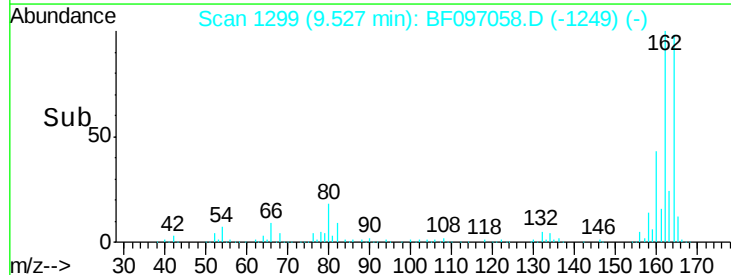
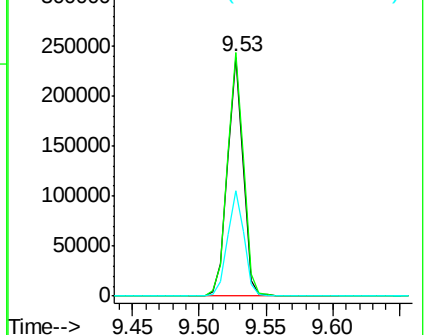
160 44.3 36.2 54.2

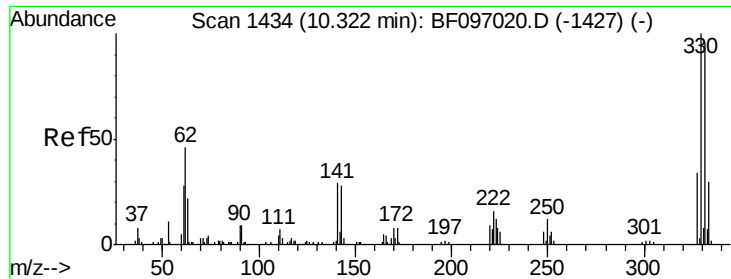


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

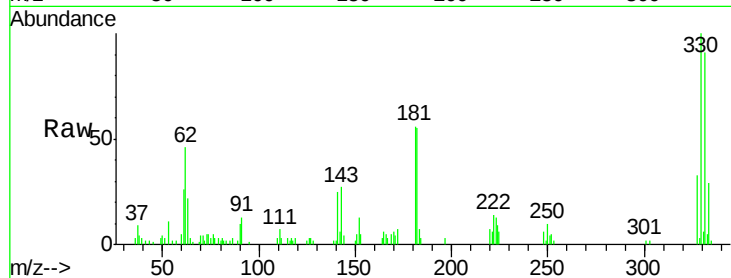




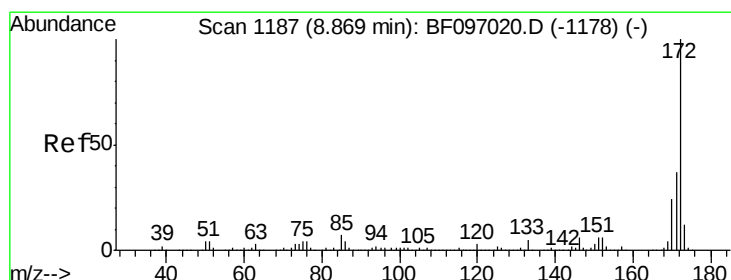
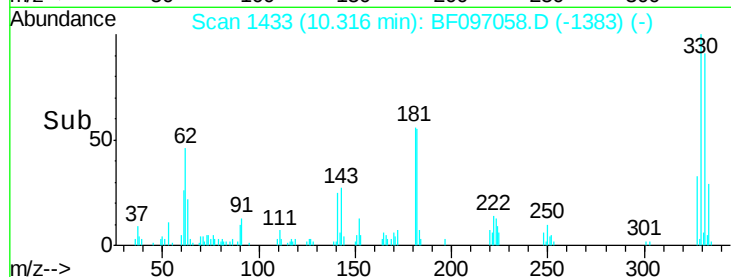
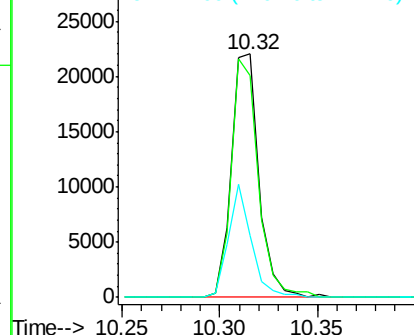
#41
 2,4,6-Tribromophenol
 Concen: 13.66 ng
 RT: 10.32 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 21609
 Ion Ratio Lower Upper
 330 100
 332 95.6 76.6 115.0
 141 38.7 31.4 47.2

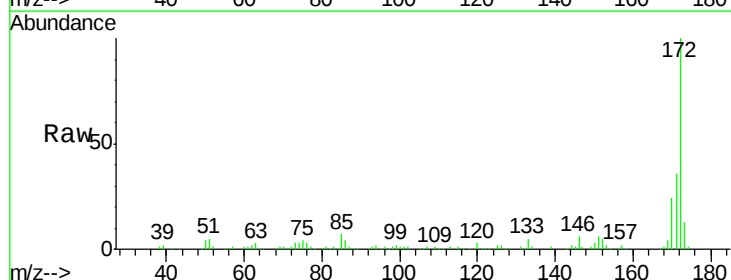


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

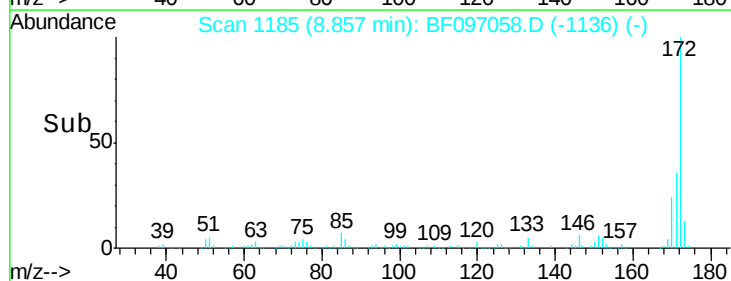
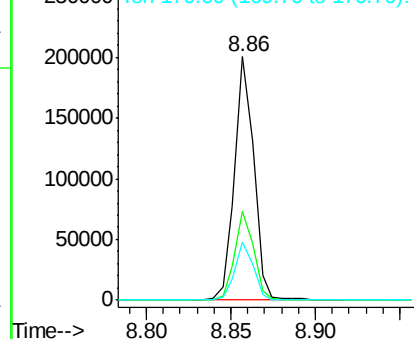


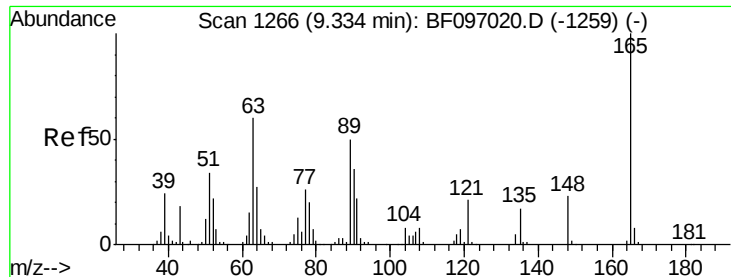
#44
 2-Fluorobiphenyl
 Concen: 13.51 ng
 RT: 8.86 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

Tgt Ion:172 Resp: 159388
 Ion Ratio Lower Upper
 172 100
 171 36.5 29.6 44.4
 170 24.0 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

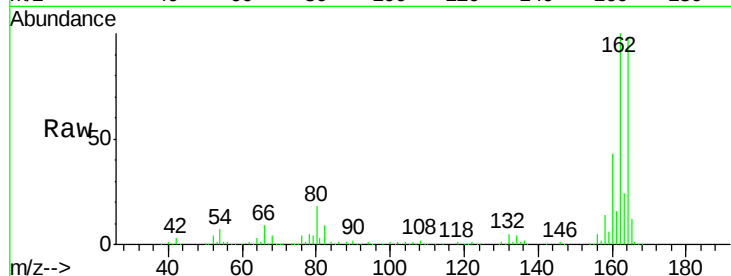




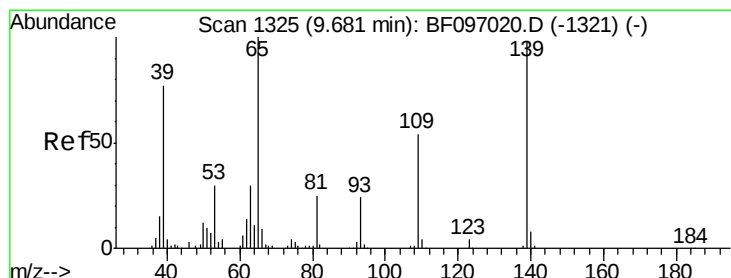
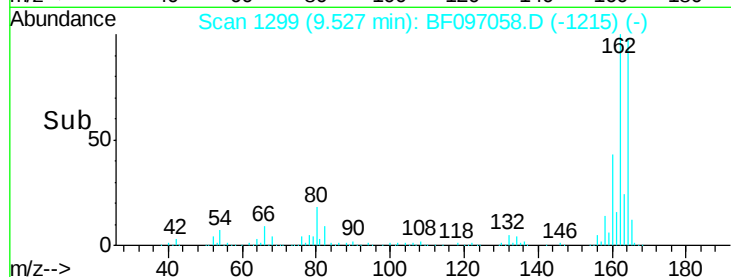
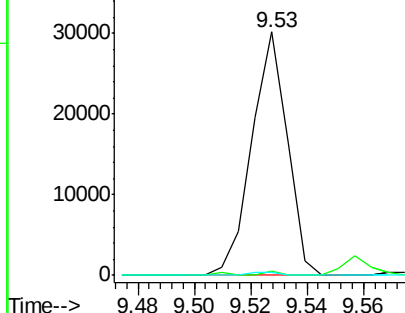
#50
2,6-Dinitrotoluene
Concen: 8.14 ng
RT: 9.53 min Scan# 1299
Delta R.T. 0.19 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	34.3	51.5#
89	1.1	37.1	55.7#

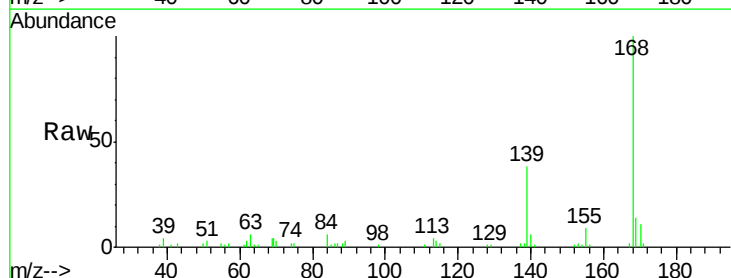


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

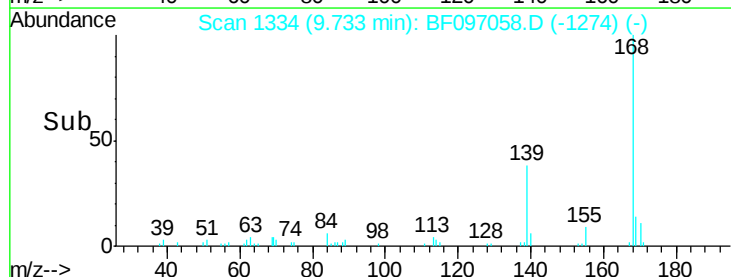
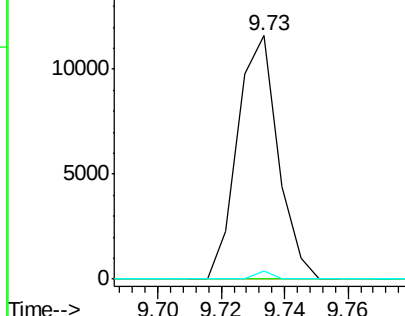


#55
4-Nitrophenol
Concen: 4.31 ng
RT: 9.73 min Scan# 1334
Delta R.T. 0.05 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	34.1	74.1#
65	3.3	31.4	71.4#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

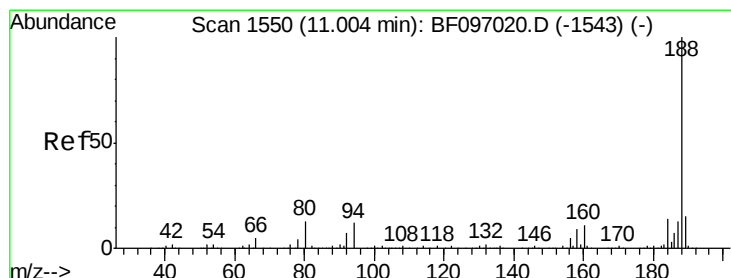
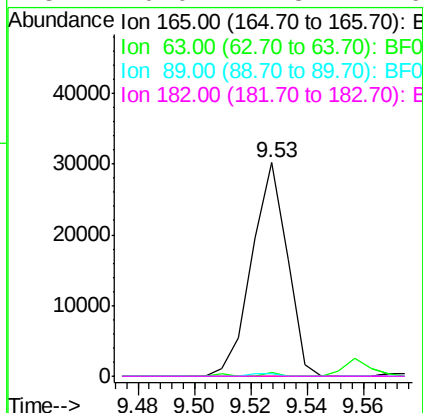
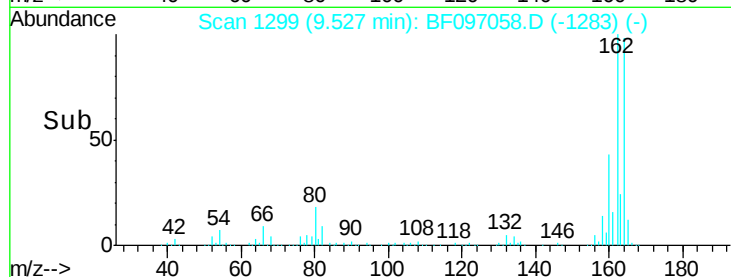
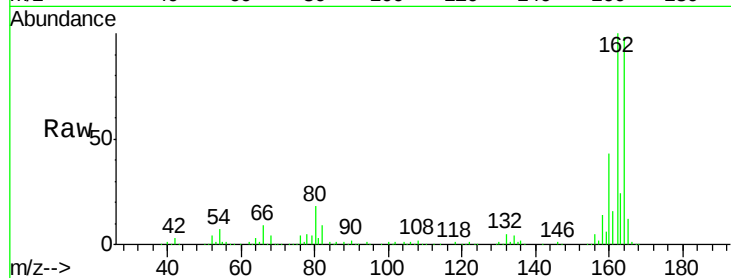




#56
 2,4-Dinitrotoluene
 Concen: 7.09 ng
 RT: 9.53 min Scan# 1299
 Delta R.T. -0.21 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

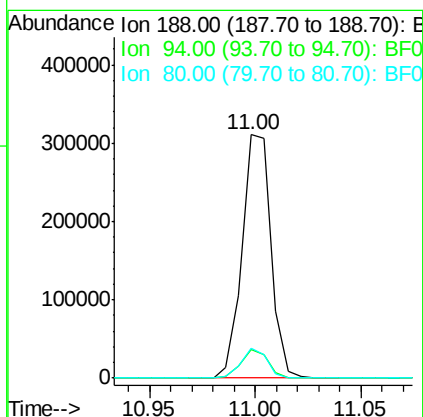
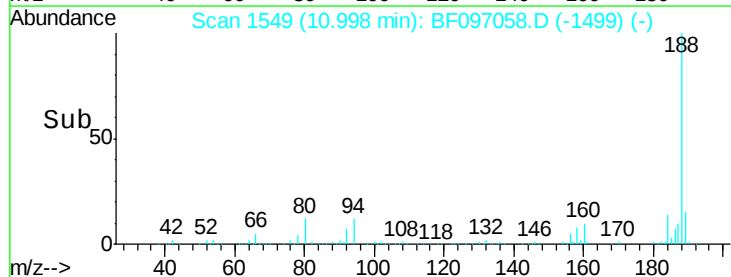
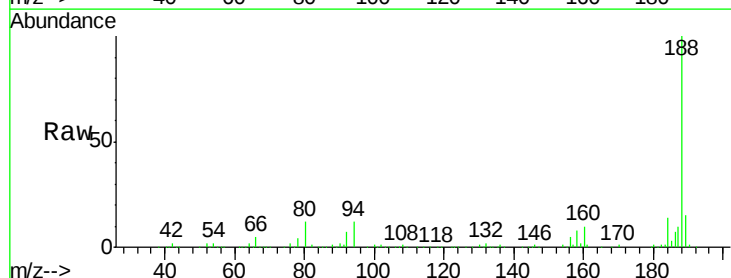
Instrument :
 BNA_F
 ClientSampleId :

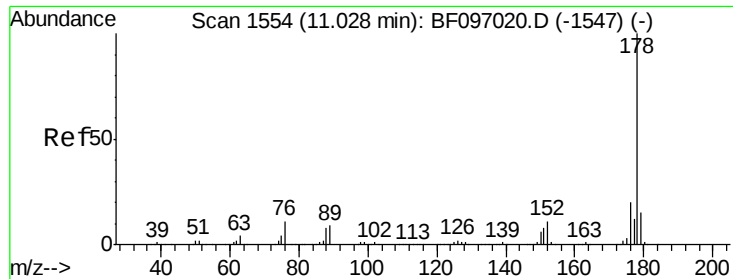
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	25.4	38.0#
89	1.1	46.4	69.6#
182	0.0	1.8	2.6#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.00 min Scan# 1549
 Delta R.T. -0.01 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.5	9.4	14.2
80	12.1	10.2	15.2

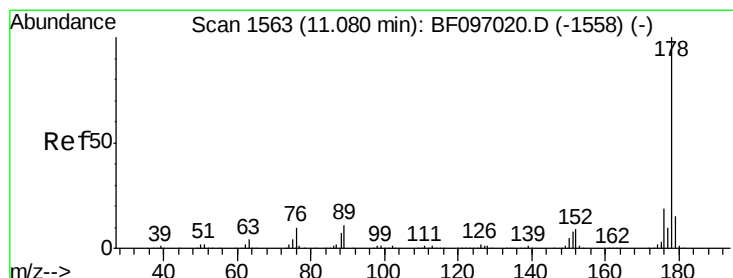
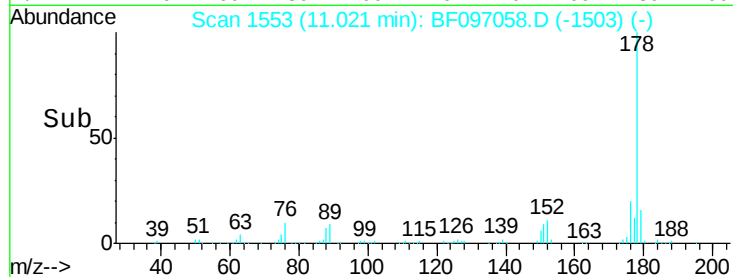
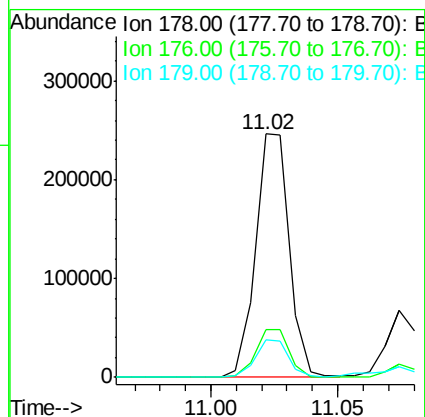
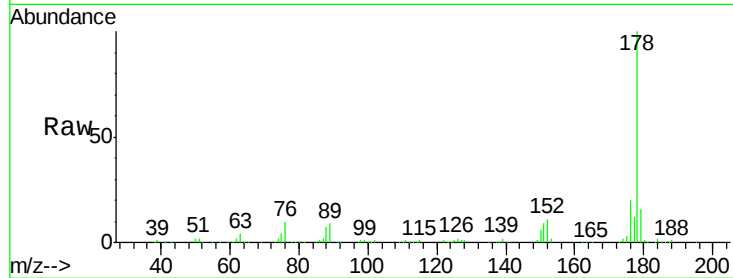




#70
Phenanthrene
Concen: 14.44 ng
RT: 11.02 min Scan# 1553
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

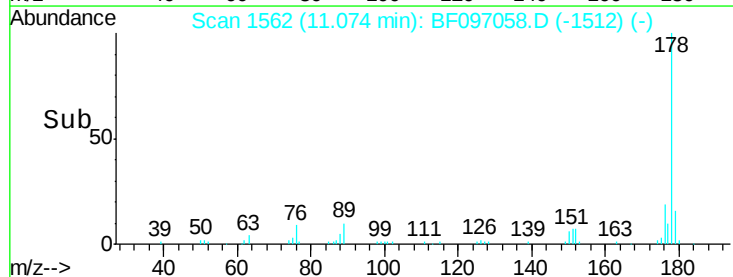
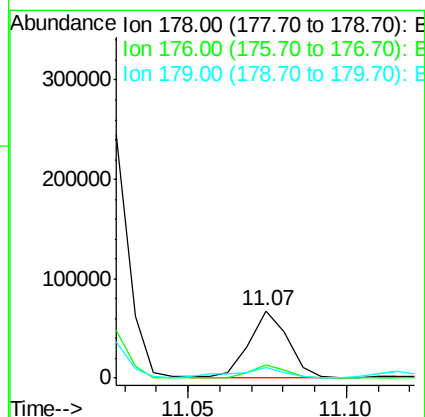
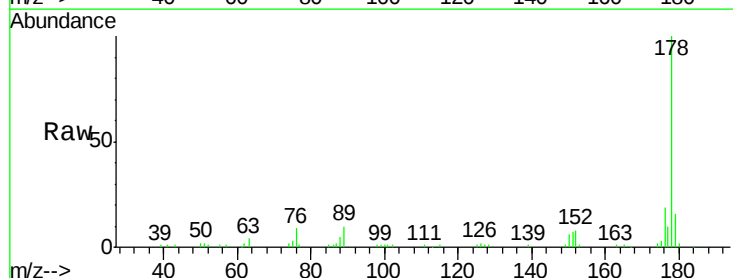
Instrument :
BNA_F
ClientSampleId :

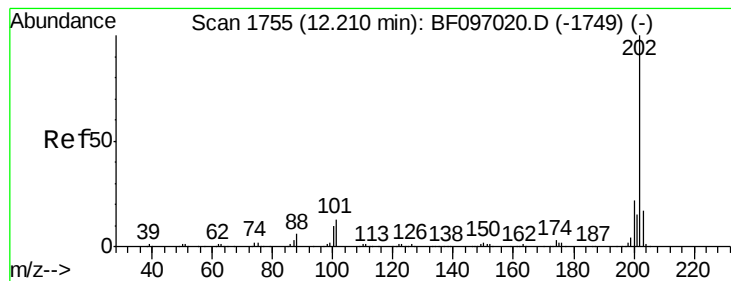
Tot Ion:178 Resp: 228151
Ion Ratio Lower Upper
178 100
176 19.7 16.2 24.4
179 15.5 12.6 19.0



#71
Anthracene
Concen: 3.50 ng
RT: 11.07 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Tgt Ion:178 Resp: 56606
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.7 12.7 19.1





#74

Fluoranthene

Concen: 14.45 ng

RT: 12.20 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

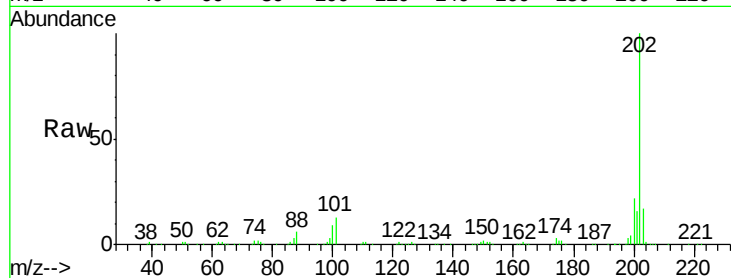
Tot Ion:202 Resp: 223585

Ion Ratio Lower Upper

202 100

101 13.1 0.0 33.2

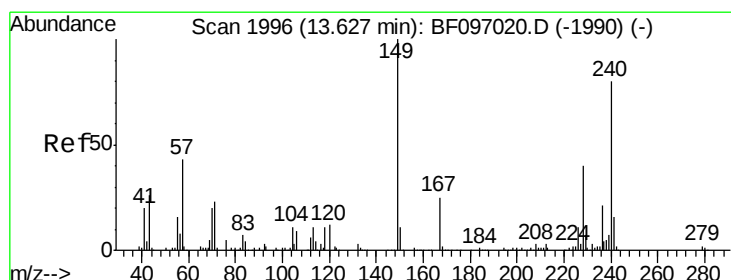
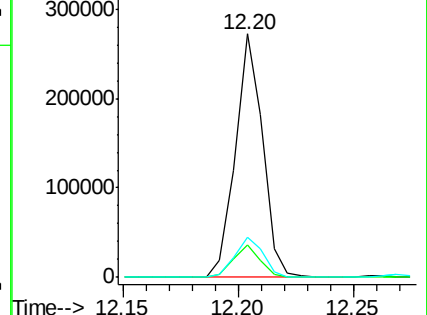
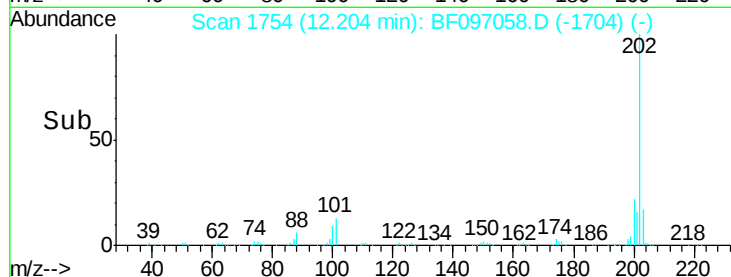
203 16.5 0.0 38.1



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# 1995

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

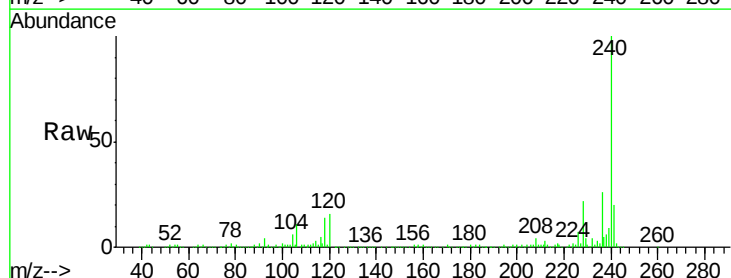
Tgt Ion:240 Resp: 226274

Ion Ratio Lower Upper

240 100

120 16.3 5.8 8.8#

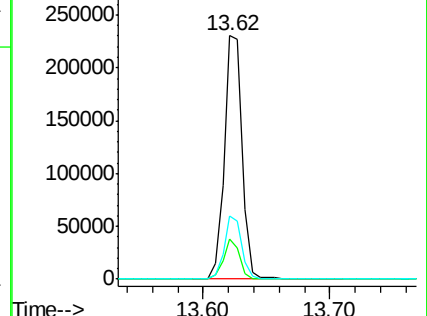
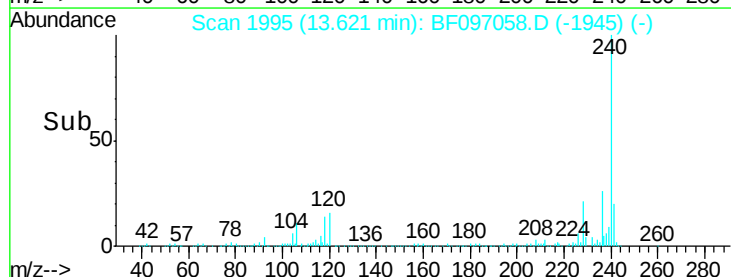
236 26.1 20.5 30.7

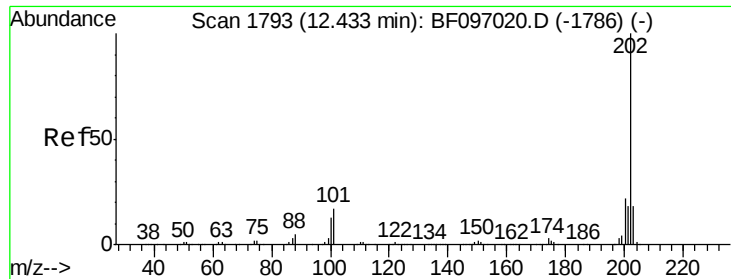


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 10.58 ng

RT: 12.43 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

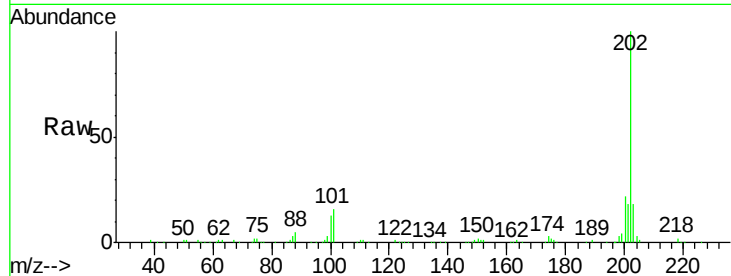
Tot Ion:202 Resp: 196010

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

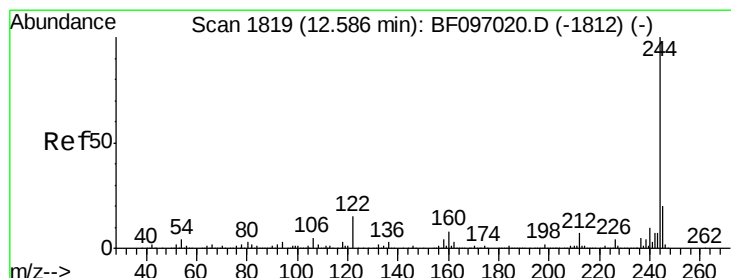
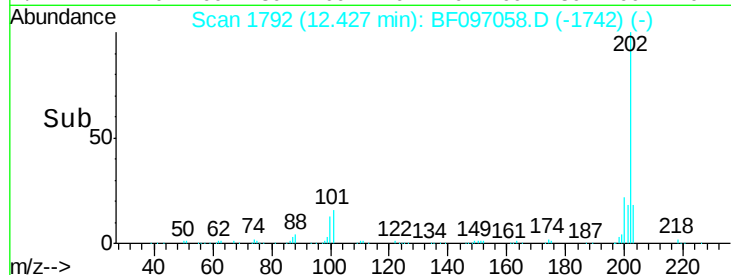
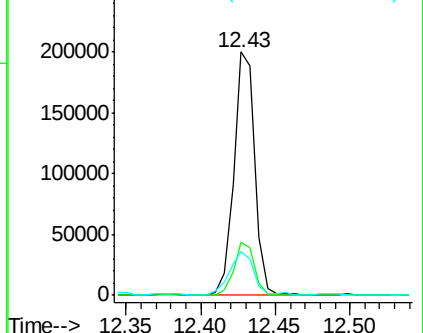
203 18.2 14.4 21.6



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: 8.30 ng

RT: 12.58 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

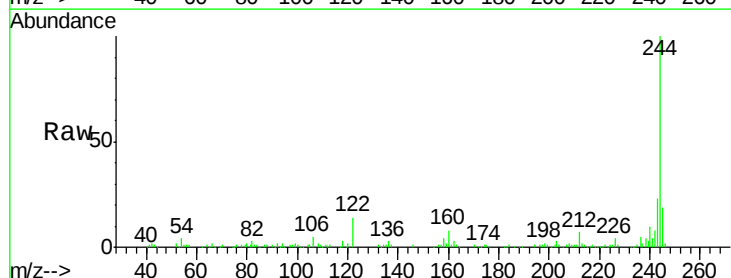
Tgt Ion:244 Resp: 92078

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

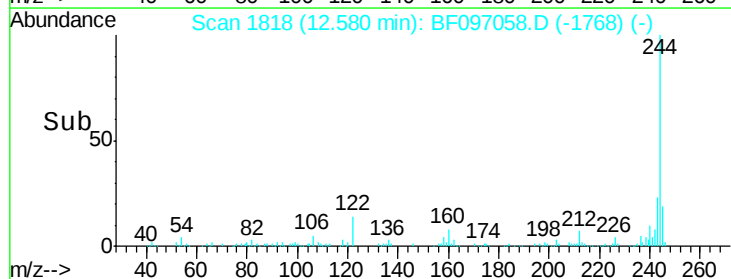
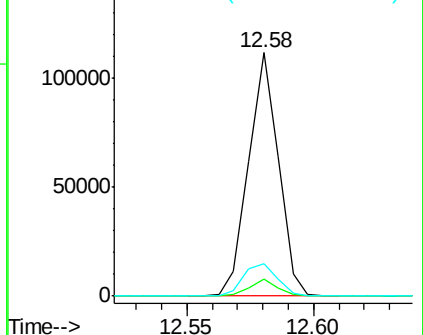
122 13.6 10.3 15.5

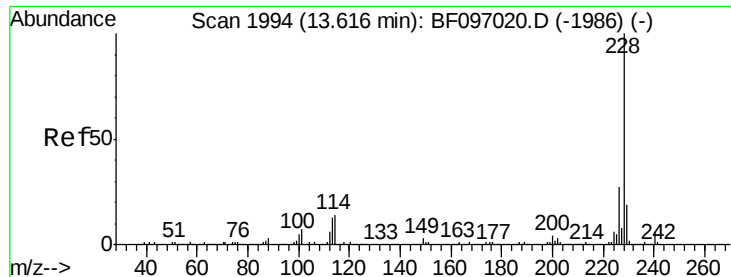


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 6.77 ng

RT: 13.62 min Scan# 1994

Delta R.T. -0.00 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

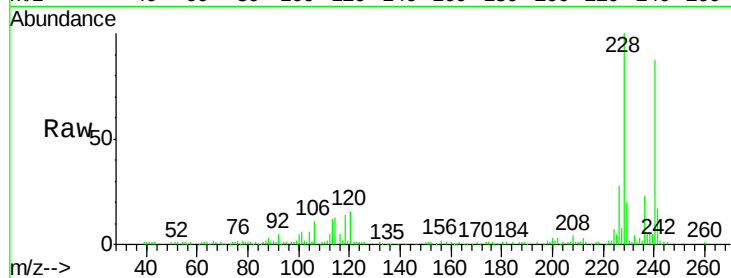
Tot Ion:228 Resp: 99150

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

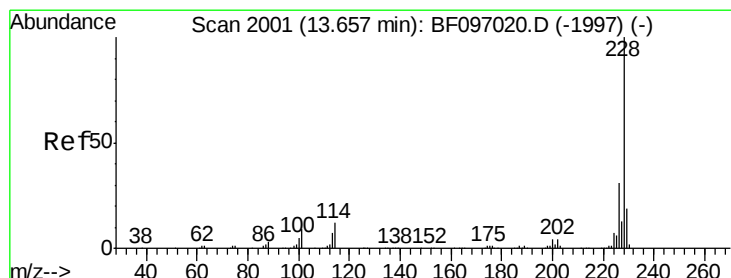
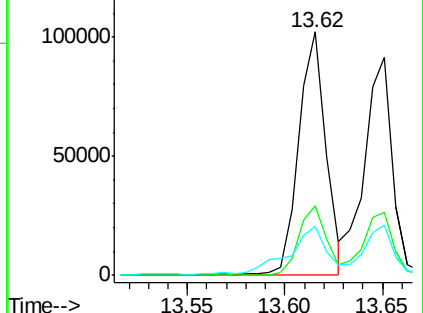
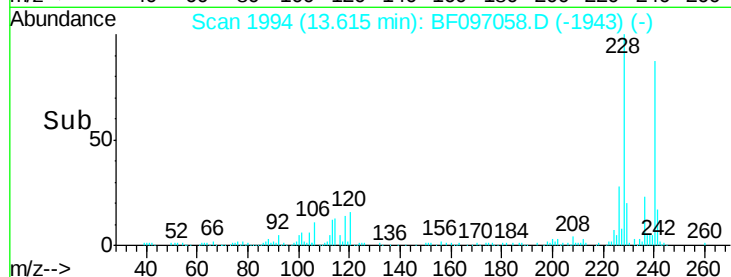
229 20.2 16.3 24.5



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: 6.45 ng

RT: 13.65 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

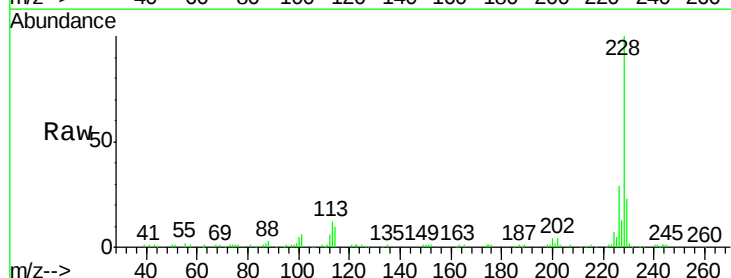
Tgt Ion:228 Resp: 92161

Ion Ratio Lower Upper

228 100

226 29.2 24.9 37.3

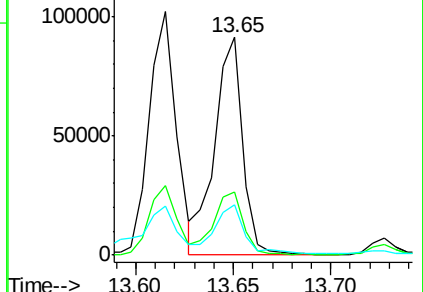
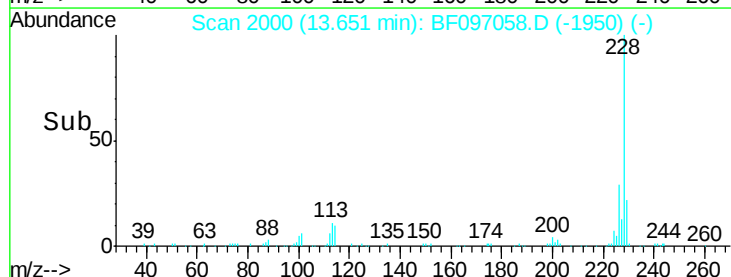
229 23.1 15.8 23.6

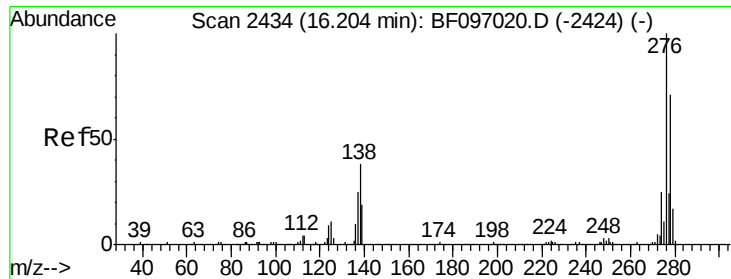


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

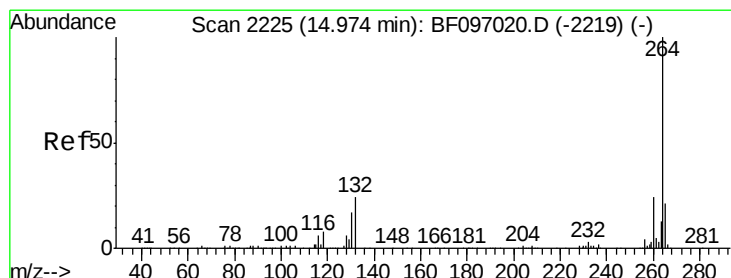
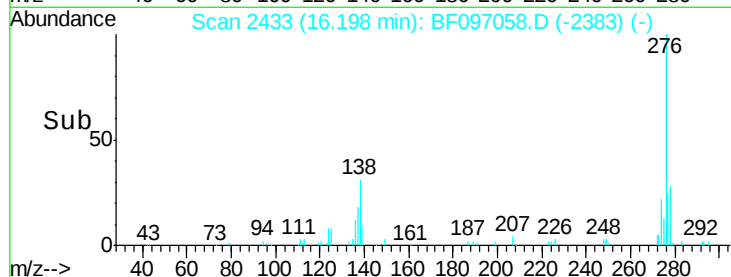
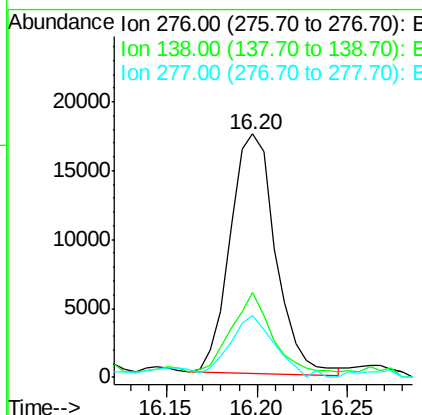
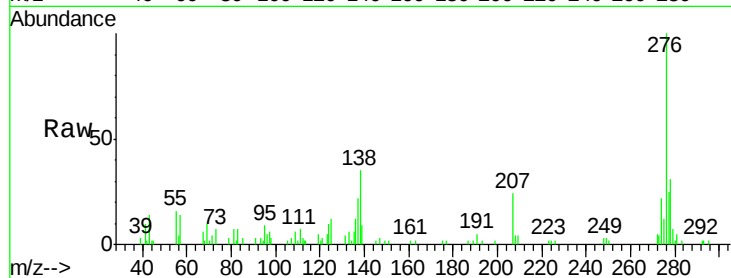




#85
Indeno(1,2,3-cd)pyrene
Concen: 2.47 ng
RT: 16.20 min Scan# 2433
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

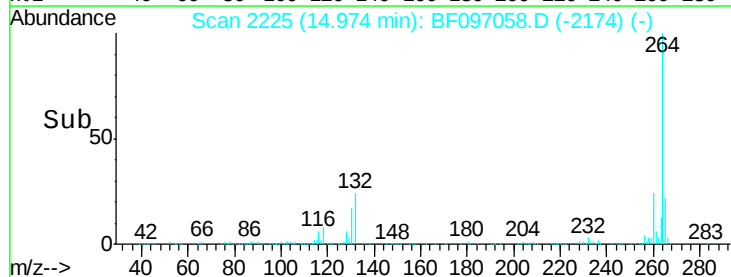
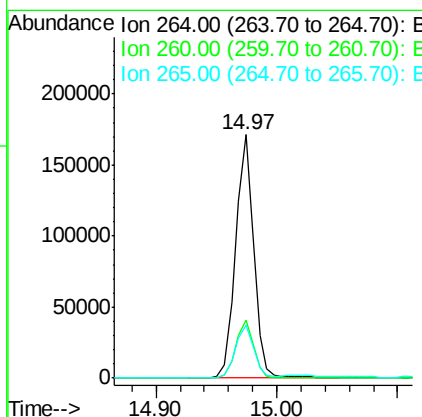
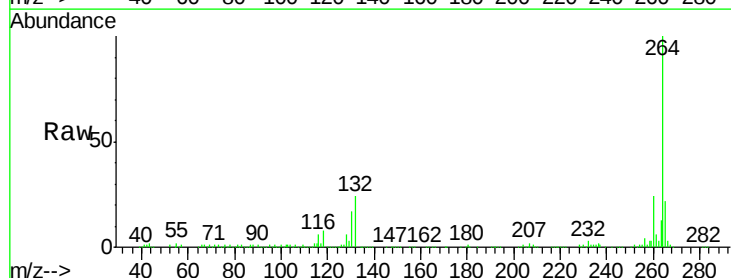
Instrument :
BNA_F
ClientSampleId :

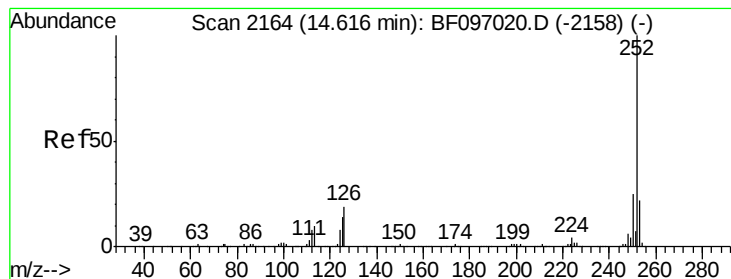
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.3	27.8	41.6
277	25.6	20.2	30.4



#86
Perylene-d12
Concen: 20.00 ng
RT: 14.97 min Scan# 2225
Delta R.T. -0.00 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	21.9	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 11.03 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.00 min

Lab File: BF097058.D

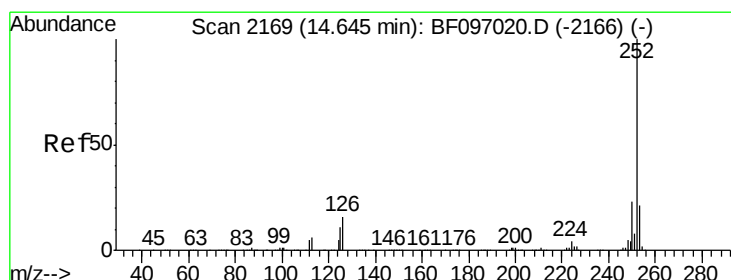
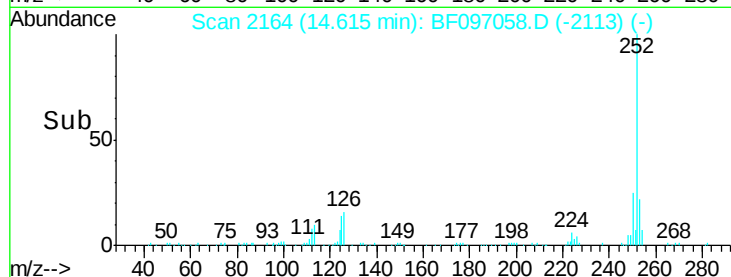
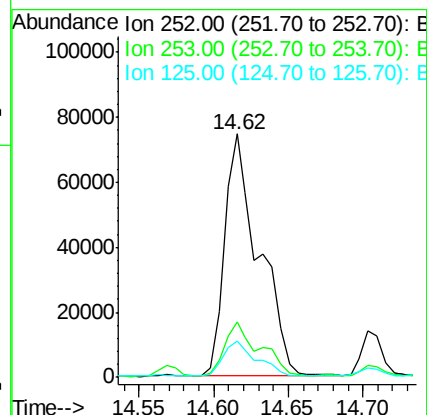
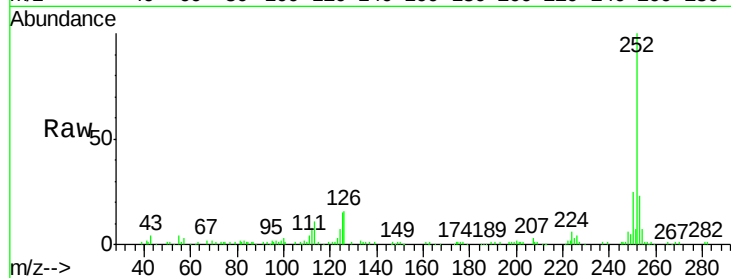
Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	120341
Ion Ratio	Lower	Upper
252	100	
253	22.6	18.1 27.1
125	14.8	9.8 14.8#



#88

Benzo(k)fluoranthene

Concen: 11.58 ng

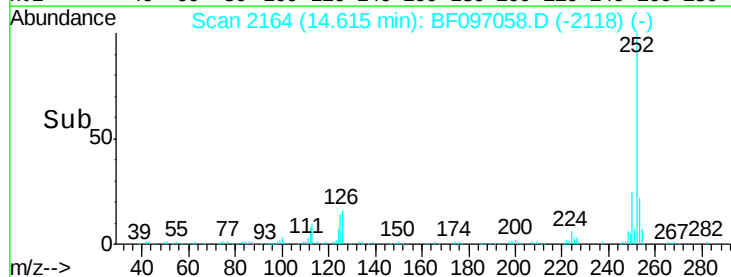
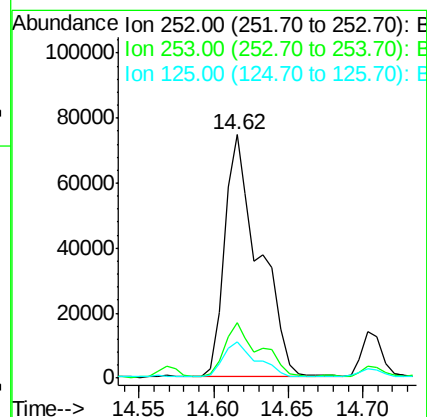
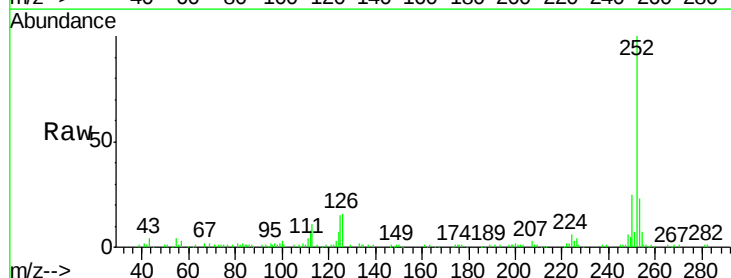
RT: 14.62 min Scan# 2164

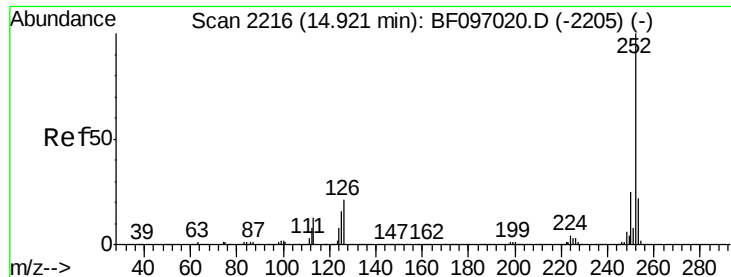
Delta R.T. -0.03 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Tgt Ion:252	Resp:	120341
Ion Ratio	Lower	Upper
252	100	
253	22.6	18.4 27.6
125	14.8	13.1 19.7

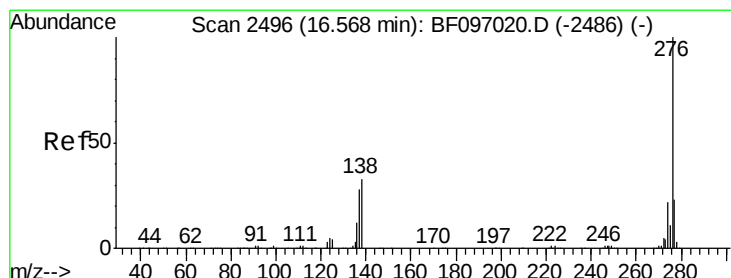
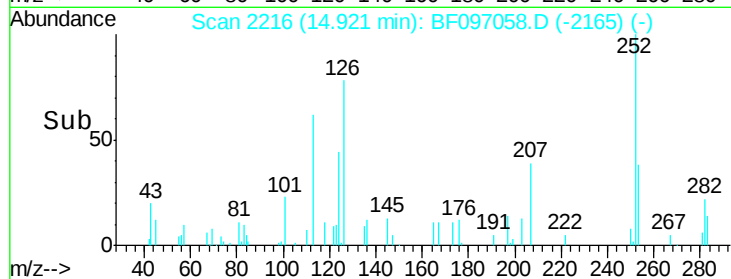
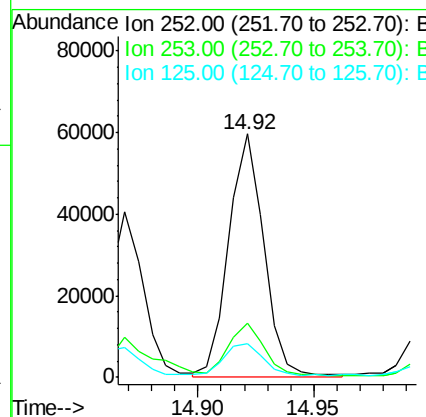
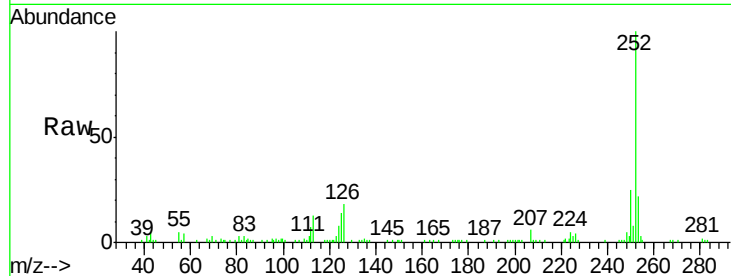




#89
Benzo(a)pyrene
Concen: 6.39 ng
RT: 14.92 min Scan# 2216
Delta R.T. -0.00 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	13.8	11.0	16.4



#91
Benzo(g,h,i)perylene
Concen: 3.18 ng
RT: 16.56 min Scan# 2495
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.0	18.6	28.0
138	28.9	25.4	38.0

