

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\
 Data File : BF097045.D
 Acq On : 25 Jul 2017 22:44
 Operator : SJ/JU
 Sample : I4290-04
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 26 01:07:07 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	144827	20.00	ng	0.00
21) Naphthalene-d8	7.78	136	615168	20.00	ng	0.00
38) Acenaphthene-d10	9.53	164	257686	20.00	ng	0.00
63) Phenanthrene-d10	11.00	188	394147	20.00	ng	0.00
75) Chrysene-d12	13.62	240	242854	20.00	ng	0.00
86) Perylene-d12	14.97	264	219842	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.12	112	1140308	118.69	ng	0.02
7) Phenol-d6	6.17	99	1431509	130.52	ng	0.00
23) Nitrobenzene-d5	7.07	82	867224	82.70	ng	0.00
41) 2,4,6-Tribromophenol	10.32	330	236213	116.02	ng	0.00
44) 2-Fluorobiphenyl	8.86	172	1069931	70.46	ng	0.00
78) Terphenyl-d14	12.59	244	634838	53.30	ng	0.00

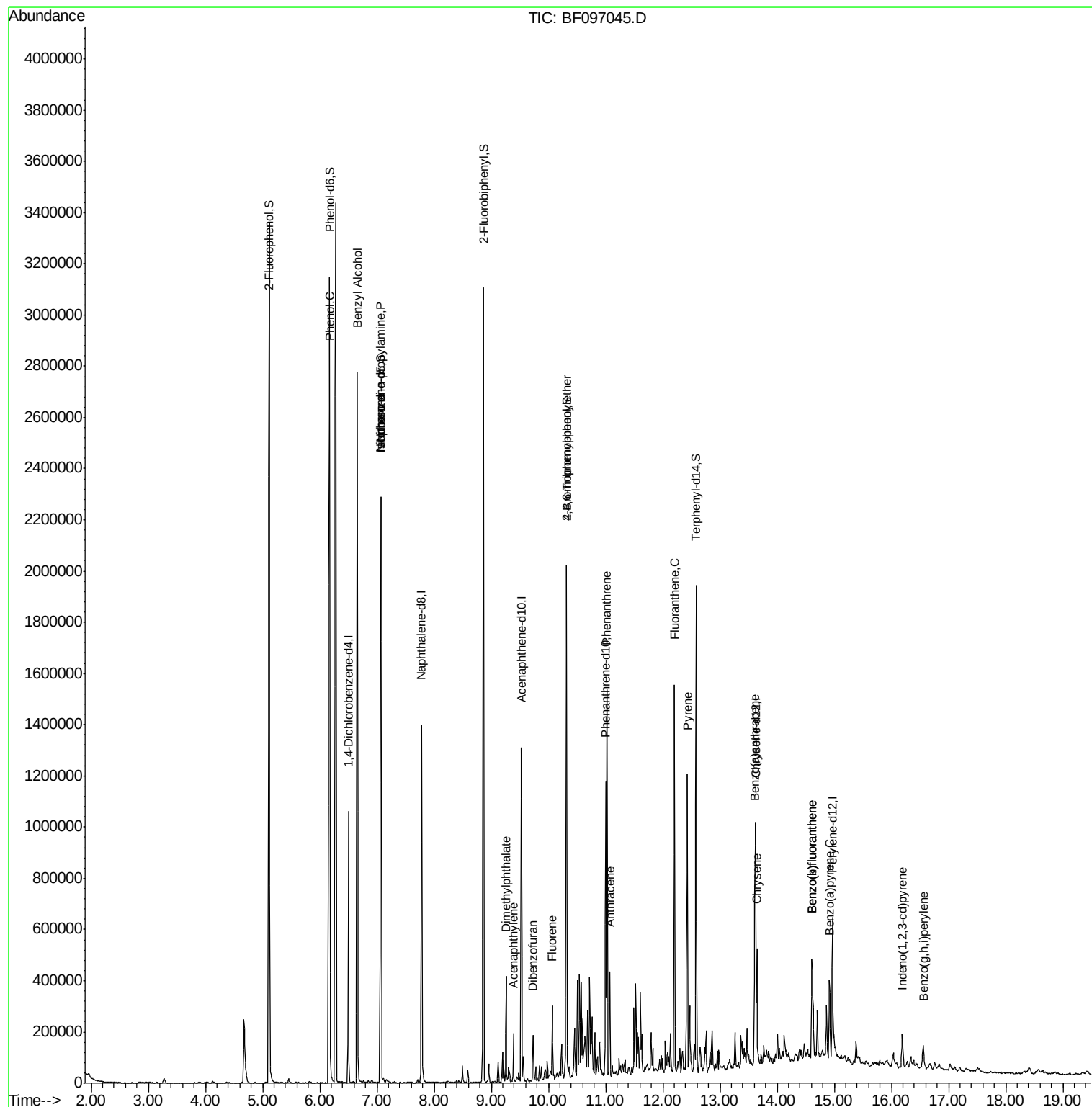
Target Compounds						Qvalue
10) Phenol	6.18	94	58505	4.50	ng	93
15) Benzyl Alcohol	6.66	79	17487	2.52	ng	# 41
19) n-Nitroso-di-n-propylamine	7.07	70	118139	16.36	ng	# 88
25) Isophorone	7.07	82	853593	41.57	ng	# 67
48) Acenaphthylene	9.39	152	67263	2.71	ng	99
49) Dimethylphthalate	9.26	163	139421	7.12	ng	99
54) Dibenzofuran	9.73	168	54449	2.79	ng	99
57) Fluorene	10.07	166	66404	4.53	ng	98
66) 4-Bromophenyl-phenylether	10.32	248	14892	3.79	ng	# 1
70) Phenanthrene	11.03	178	587040	27.80	ng	99
71) Anthracene	11.07	178	143525	6.64	ng	99
74) Fluoranthene	12.20	202	573090	27.70	ng	98
77) Pyrene	12.43	202	441536	22.21	ng	98
80) Benzo(a)anthracene	13.61	228	195353	12.43	ng	96
82) Chrysene	13.64	228	155642	10.14	ng	97
85) Indeno(1,2,3-cd)pyrene	16.19	276	65028	4.94	ng	94
87) Benzo(b)fluoranthene	14.61	252	230709	17.46	ng	# 96
88) Benzo(k)fluoranthene	14.61	252	230709	18.32	ng	98
89) Benzo(a)pyrene	14.92	252	117329	9.70	ng	96
91) Benzo(a,h,i)perylene	16.56	276	57497	5.53	ng	95

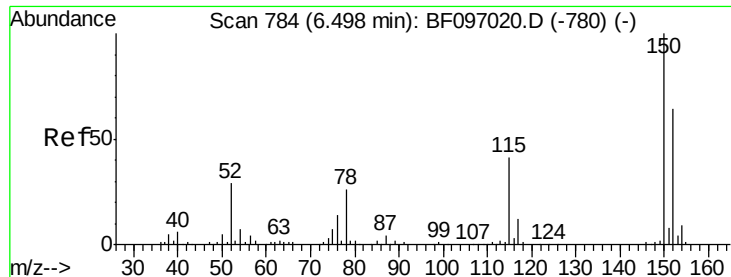
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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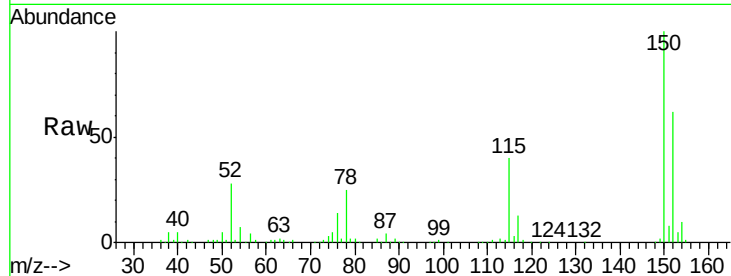


#1

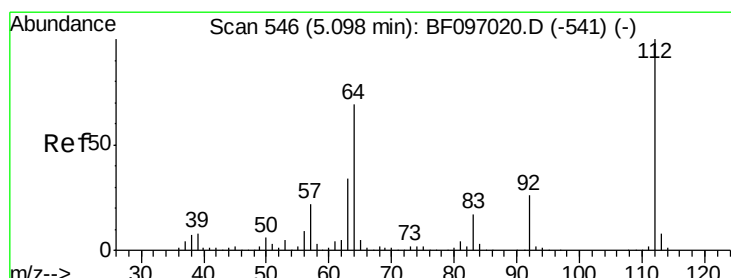
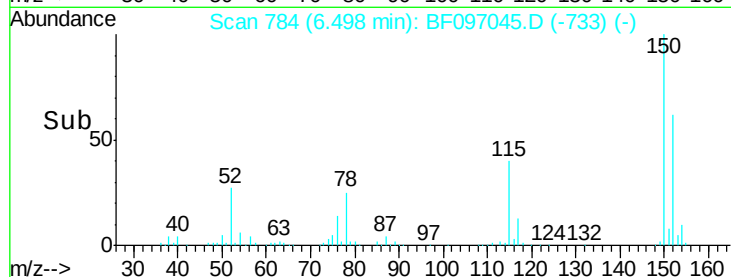
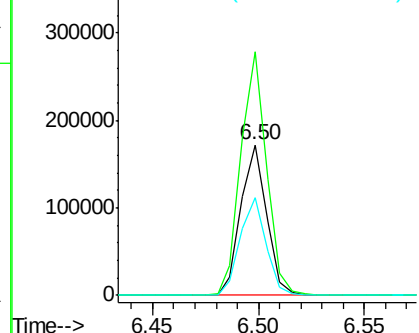
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.50 min Scan# 784
Delta R.T. -0.00 min
Lab File: BF097045.D
Acq: 25 Jul 2017 22:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 144827
Ion Ratio Lower Upper
152 100
150 161.5 126.2 189.2
115 64.9 52.2 78.2



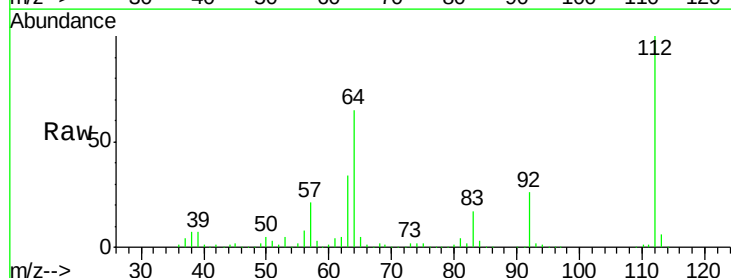
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



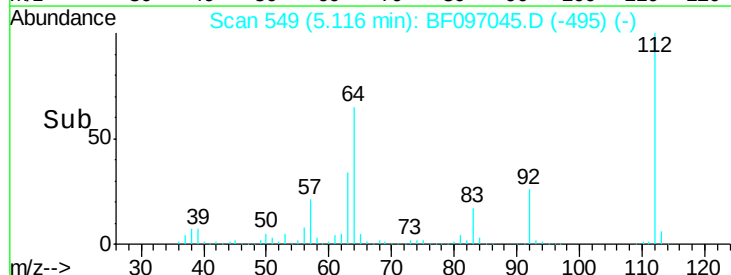
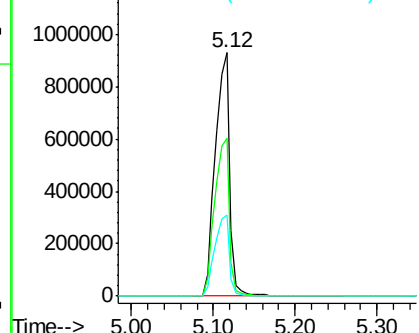
#5

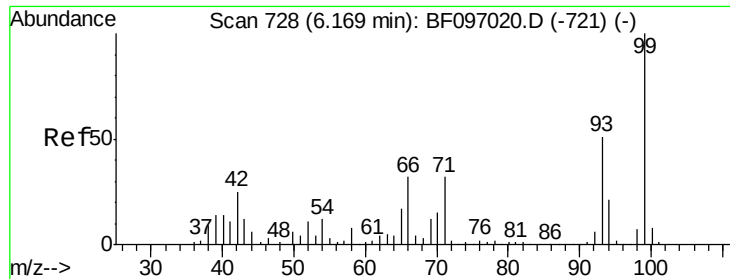
2-Fluorophenol
Concen: 118.69 ng
RT: 5.12 min Scan# 549
Delta R.T. 0.02 min
Lab File: BF097045.D
Acq: 25 Jul 2017 22:44

Tgt Ion:112 Resp: 1140308
Ion Ratio Lower Upper
112 100
64 64.8 46.0 69.0
63 33.5 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: 130.52 ng

RT: 6.17 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

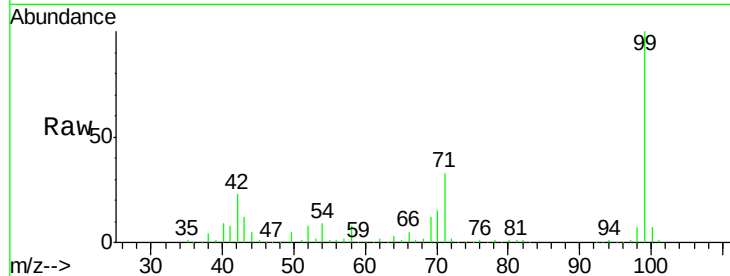
Instrument :

BNA_F

ClientSampled :

Tot Ion: 99 Resp: 1431509

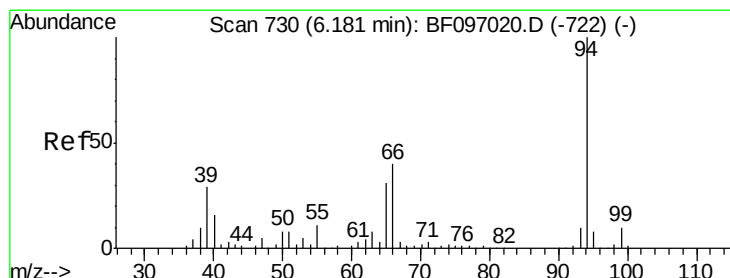
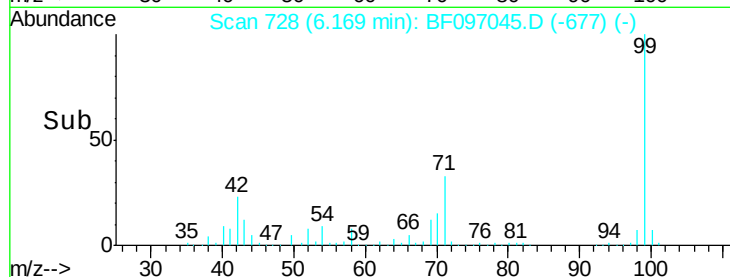
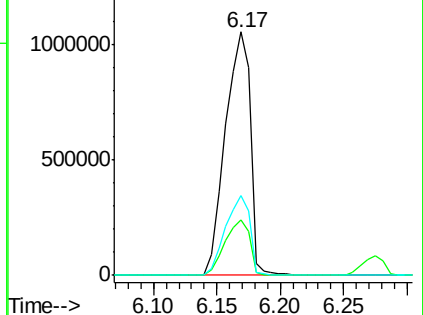
Ion	Ratio	Lower	Upper
99	100		
42	22.8	13.5	20.3#
71	32.6	24.5	36.7



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: 4.50 ng

RT: 6.18 min Scan# 730

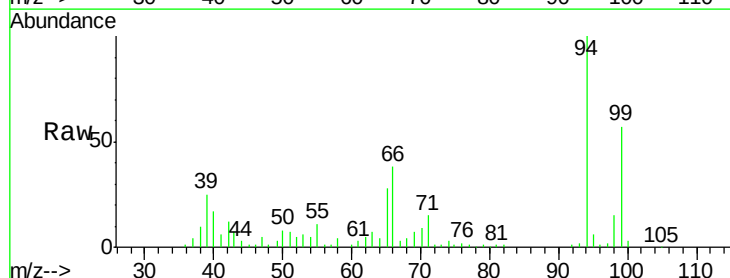
Delta R.T. -0.00 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Tgt Ion: 94 Resp: 58505

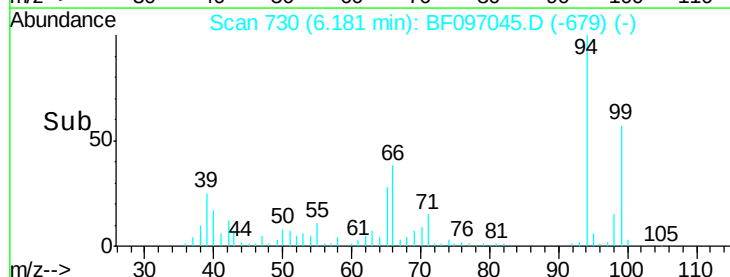
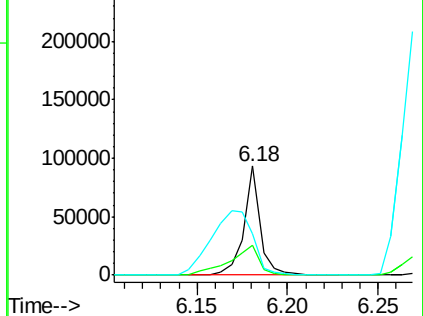
Ion	Ratio	Lower	Upper
94	100		
65	27.9	9.9	49.9
66	37.6	23.1	63.1

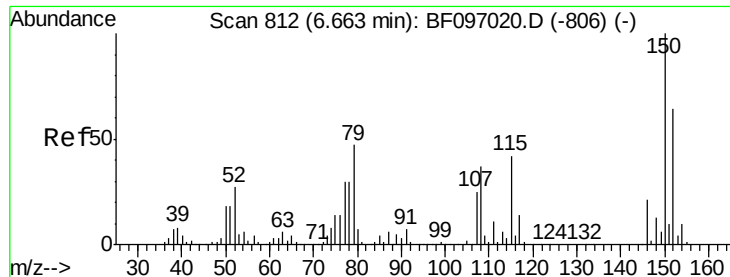


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#15

Benzyl Alcohol

Concen: 2.52 ng

RT: 6.66 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Instrument :

BNA_F

ClientSampled :

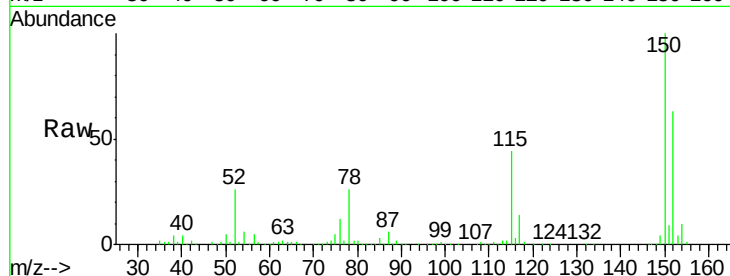
Tot Ion: 79 Resp: 17487

Ion Ratio Lower Upper

79 100

108 30.7 63.4 95.0#

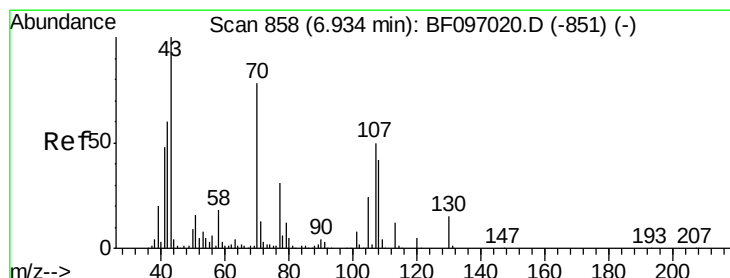
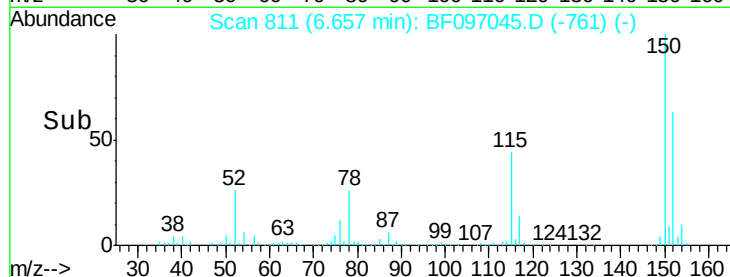
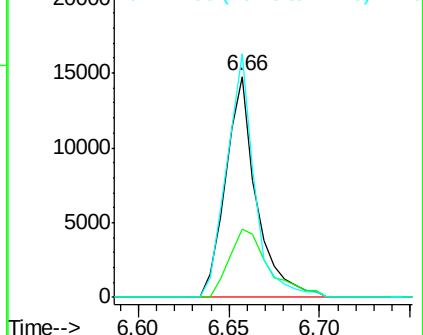
77 110.2 49.2 73.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 16.36 ng

RT: 7.07 min Scan# 881

Delta R.T. 0.14 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Tgt Ion: 70 Resp: 118139

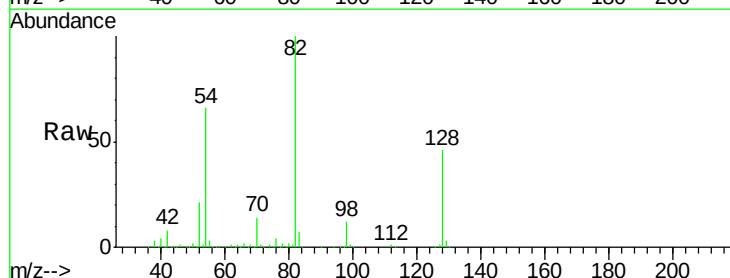
Ion Ratio Lower Upper

70 100

42 58.1 47.2 70.8

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

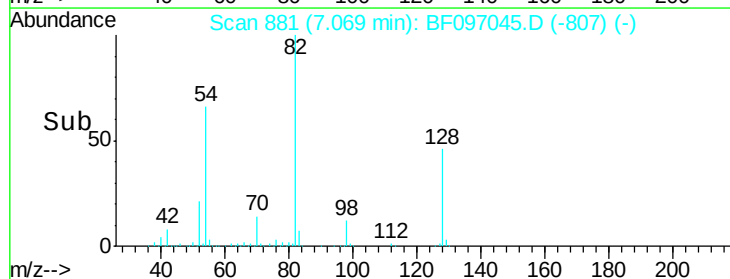
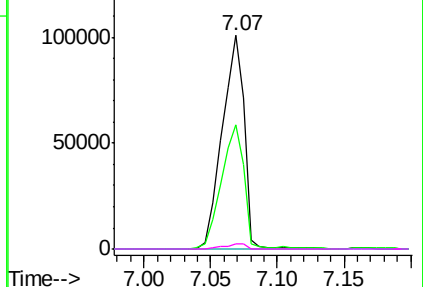


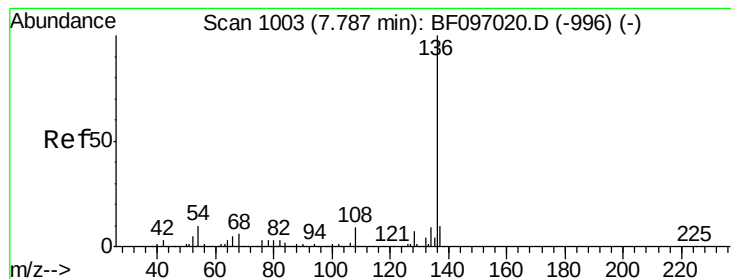
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 615168

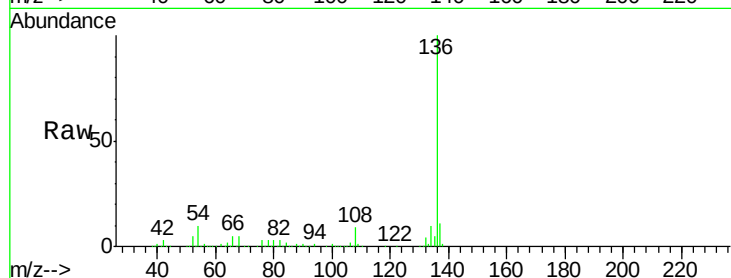
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 10.4 4.9 7.3#

68 5.3 4.1 6.1

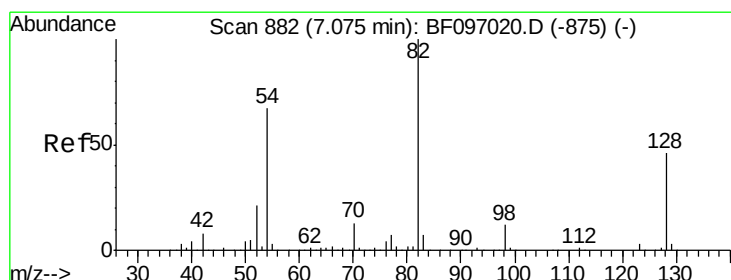
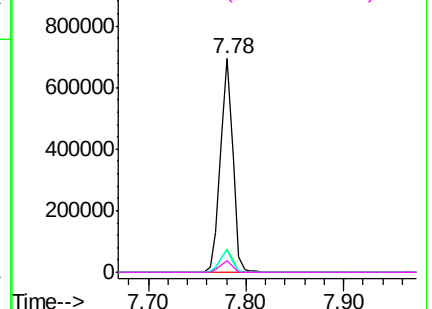
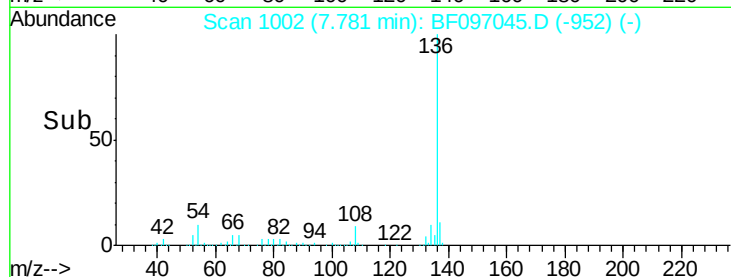


Abundance Ion 136.00 (135.70 to 136.70): E

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: 82.70 ng

RT: 7.07 min Scan# 881

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

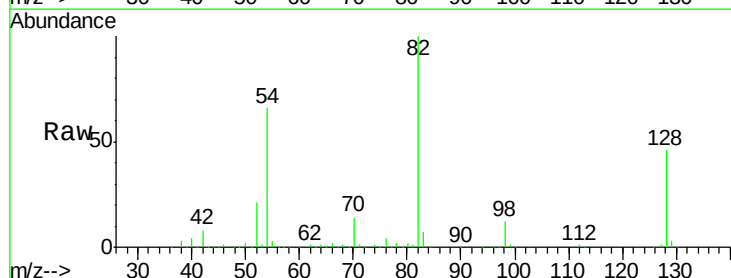
Tgt Ion: 82 Resp: 867224

Ion Ratio Lower Upper

82 100

128 46.0 34.0 51.0

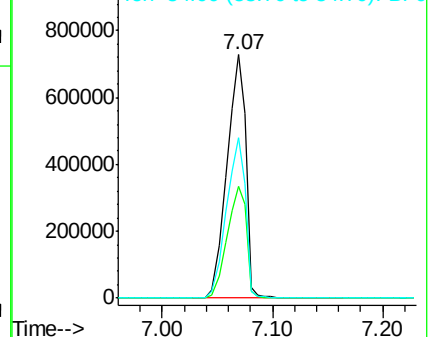
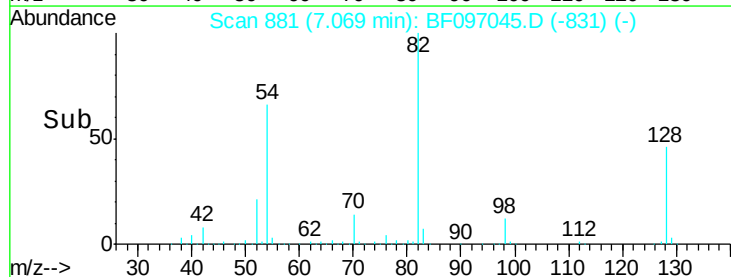
54 66.0 42.2 63.2#

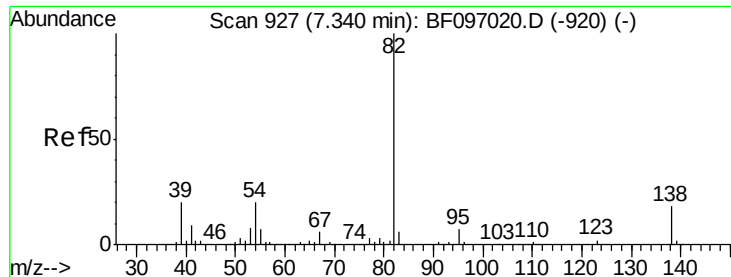


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 41.57 ng

RT: 7.07 min Scan# 881

Delta R.T. -0.27 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Instrument :

BNA_F

ClientSampleId :

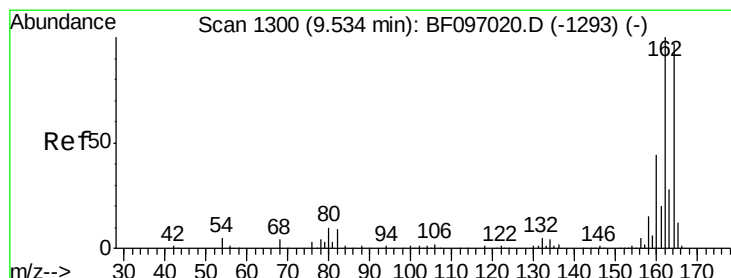
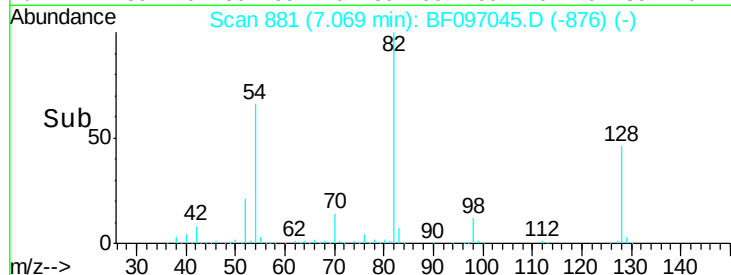
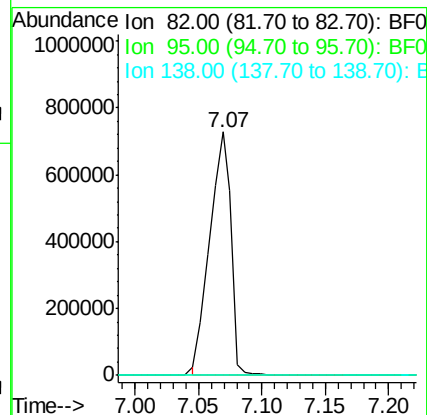
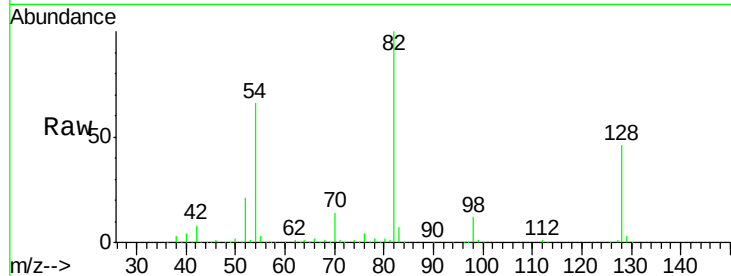
Tot Ion: 82 Resp: 853593

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: 9.53 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

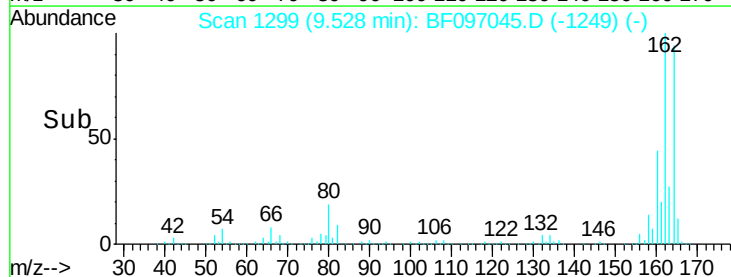
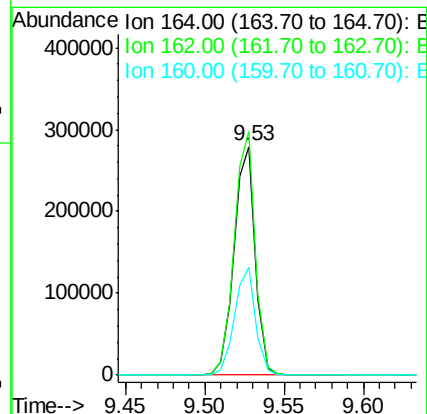
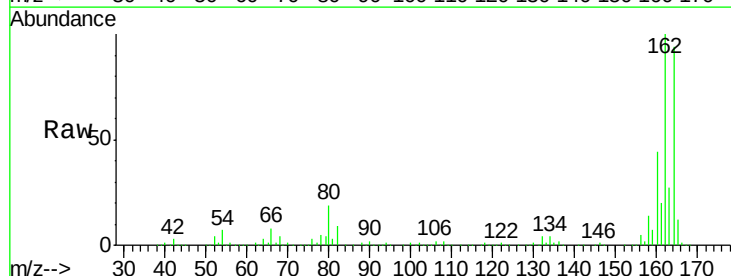
Tgt Ion: 164 Resp: 257686

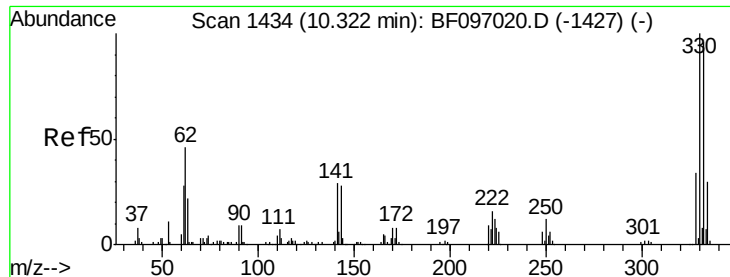
Ion Ratio Lower Upper

164 100

162 106.6 82.6 123.8

160 47.2 36.2 54.2





#41

2,4,6-Tribromophenol

Concen: 116.02 ng

RT: 10.32 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Instrument :

BNA_F

ClientSampleId :

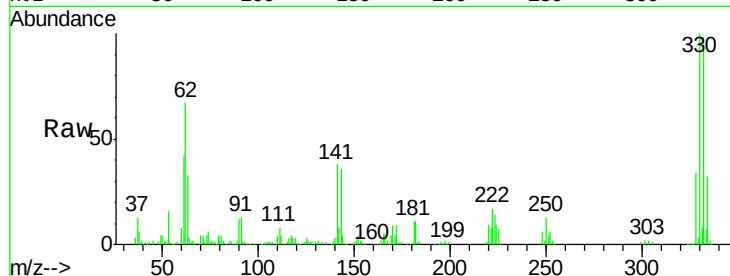
Tot Ion:330 Resp: 236213

Ion Ratio Lower Upper

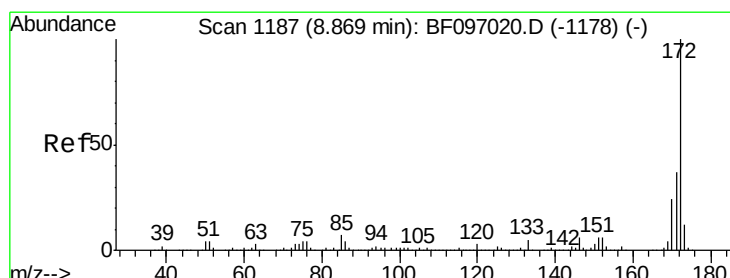
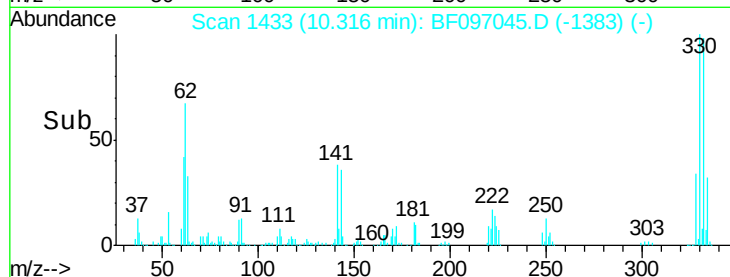
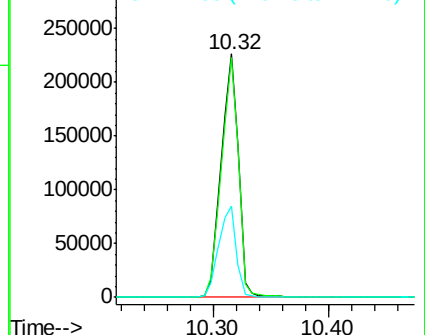
330 100

332 97.0 76.6 115.0

141 38.4 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: 70.46 ng

RT: 8.86 min Scan# 1186

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

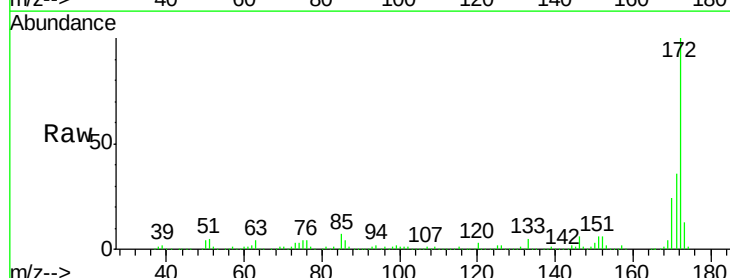
Tgt Ion:172 Resp: 1069931

Ion Ratio Lower Upper

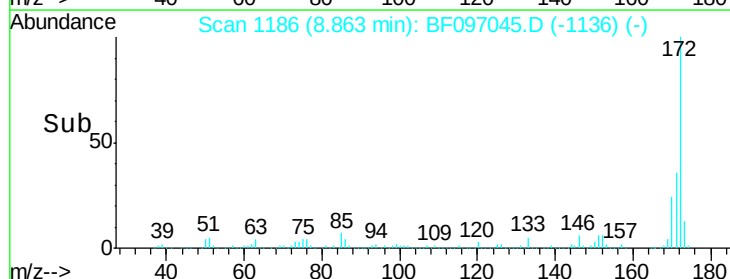
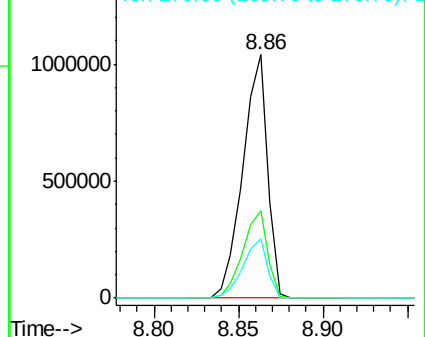
172 100

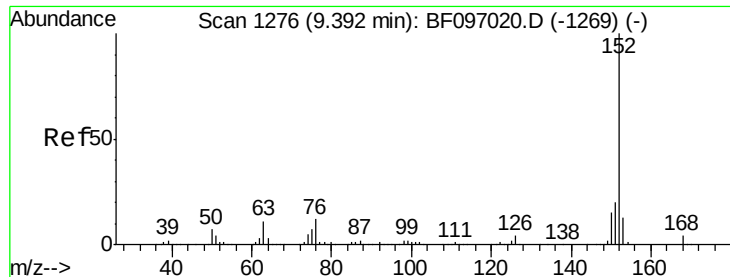
171 35.9 29.6 44.4

170 24.5 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: 2.71 ng

RT: 9.39 min Scan# 1275

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Instrument :

BNA_F

ClientSampleId :

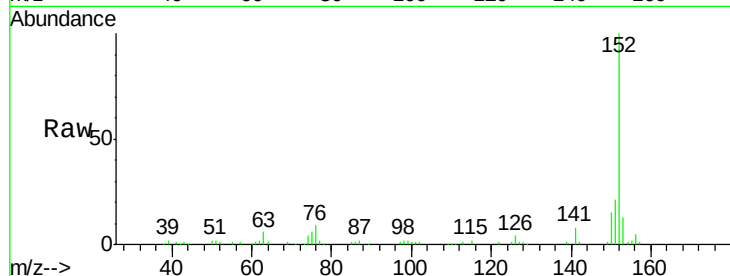
Tot Ion:152 Resp: 67263

Ion Ratio Lower Upper

152 100

151 20.5 16.8 25.2

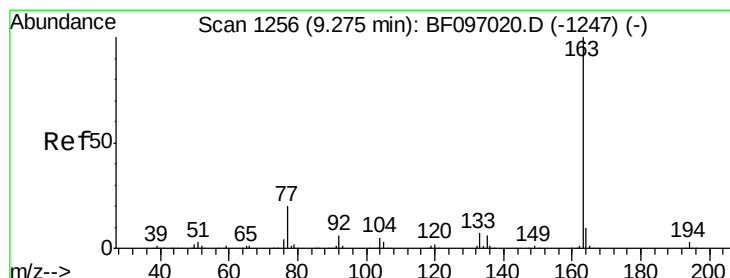
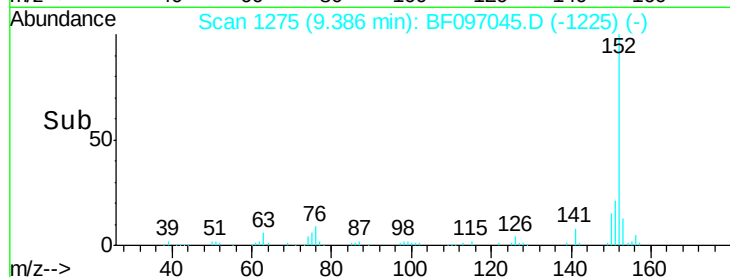
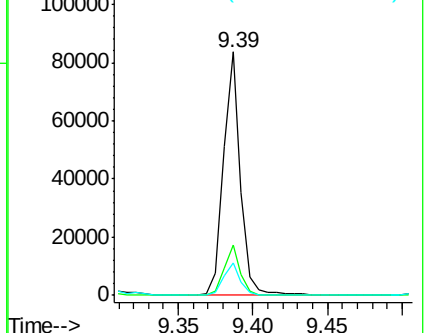
153 13.5 10.8 16.2



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



#49

Dimethylphthalate

Concen: 7.12 ng

RT: 9.26 min Scan# 1253

Delta R.T. -0.02 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

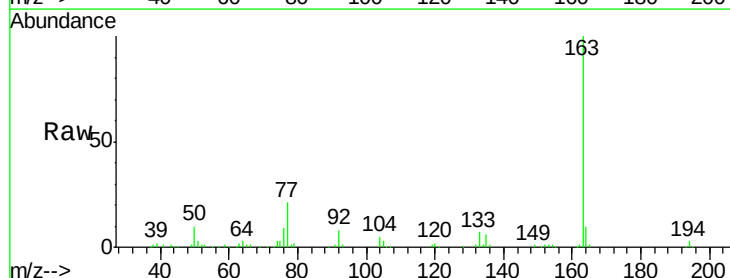
Tgt Ion:163 Resp: 139421

Ion Ratio Lower Upper

163 100

194 2.9 2.6 4.0

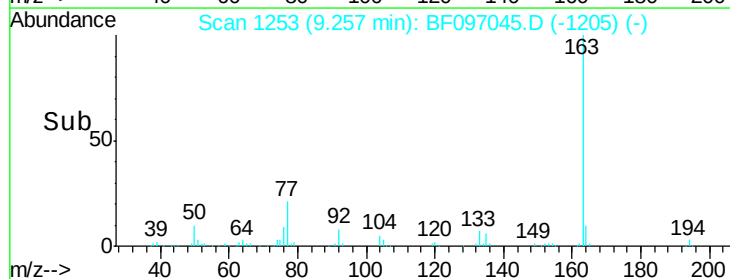
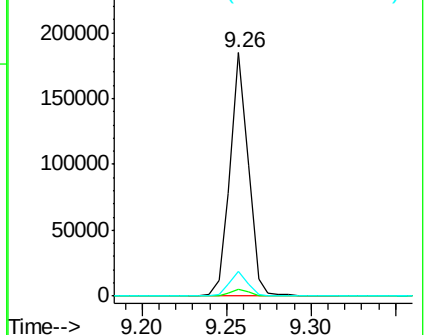
164 10.0 8.4 12.6

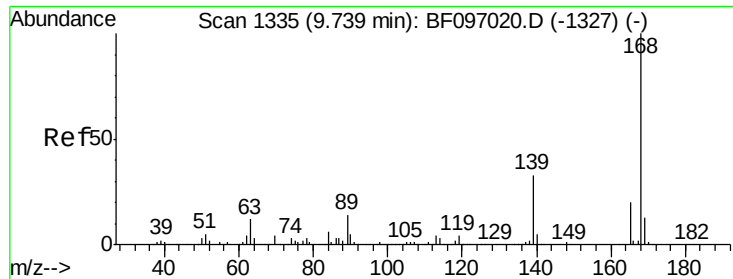


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

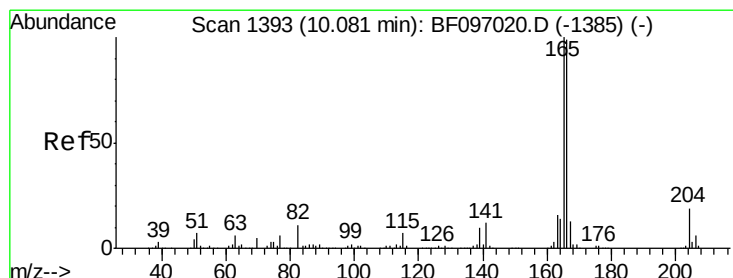
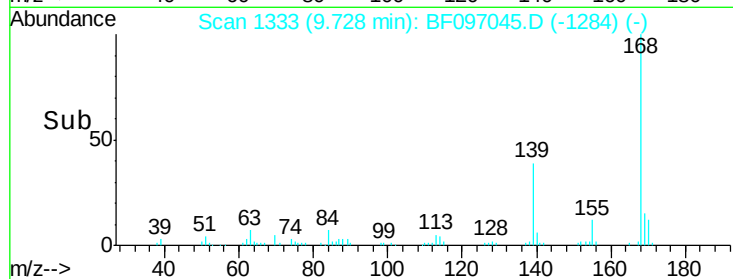
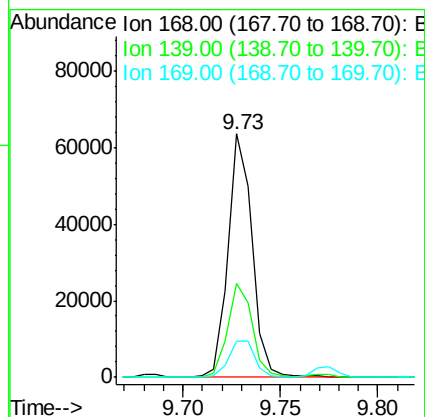
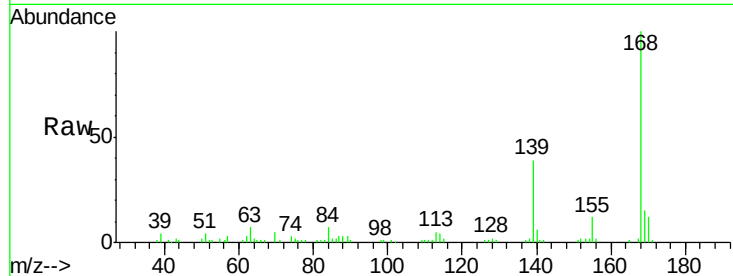




#54
Dibenzenofuran
Concen: 2.79 ng
RT: 9.73 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF097045.D
Acq: 25 Jul 2017 22:44

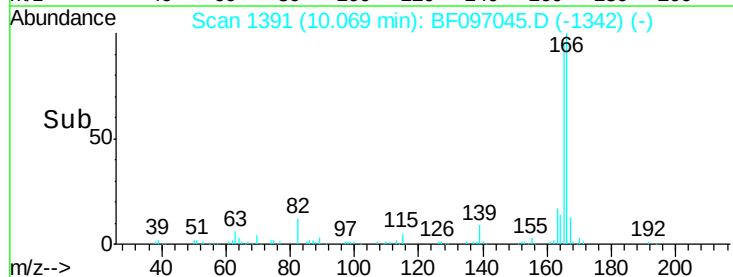
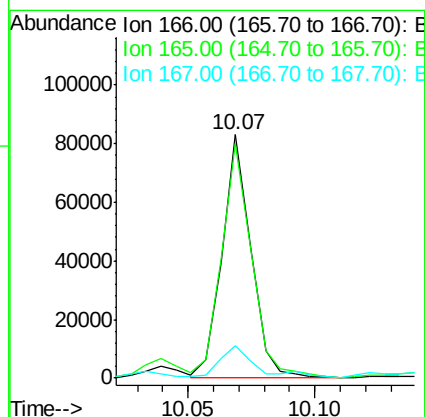
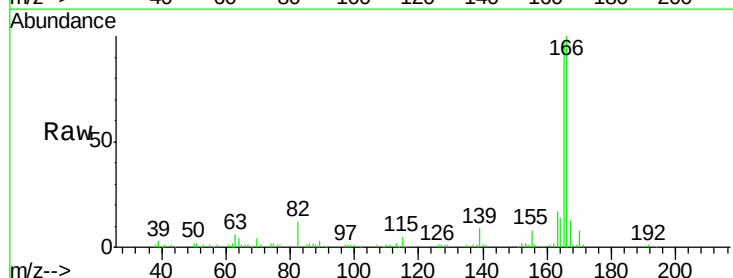
Instrument :
BNA_F
ClientSampleId :

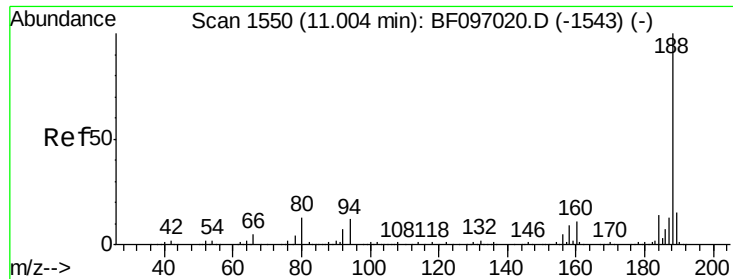
Tot Ion:168 Resp: 54449
Ion Ratio Lower Upper
168 100
139 38.5 30.6 45.8
169 14.9 10.8 16.2



#57
Fluorene
Concen: 4.53 ng
RT: 10.07 min Scan# 1391
Delta R.T. -0.01 min
Lab File: BF097045.D
Acq: 25 Jul 2017 22:44

Tgt Ion:166 Resp: 66404
Ion Ratio Lower Upper
166 100
165 96.6 78.8 118.2
167 13.5 10.6 16.0

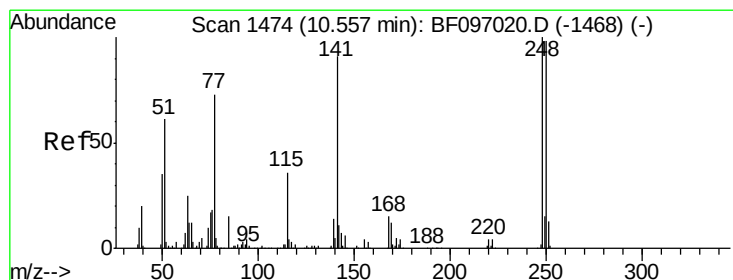
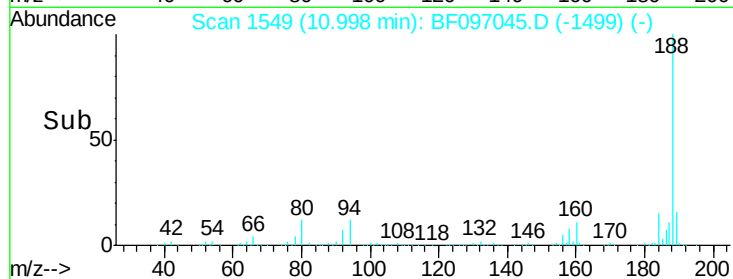
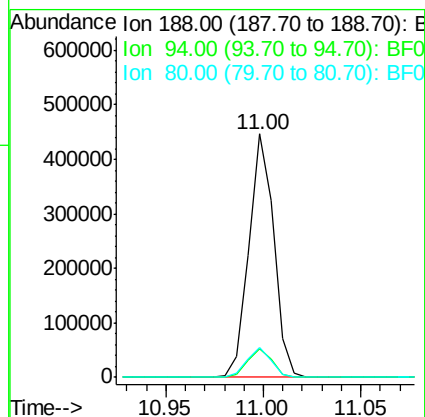
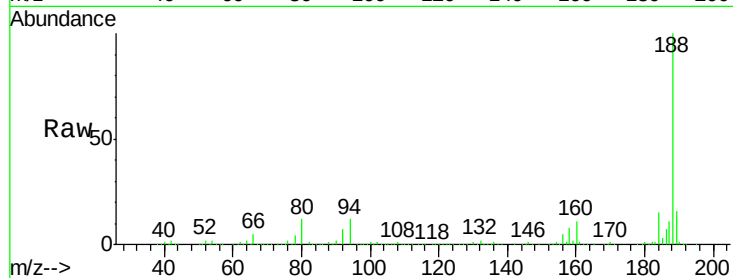




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.00 min Scan# 1549
 Delta R.T. -0.01 min
 Lab File: BF097045.D
 Acq: 25 Jul 2017 22:44

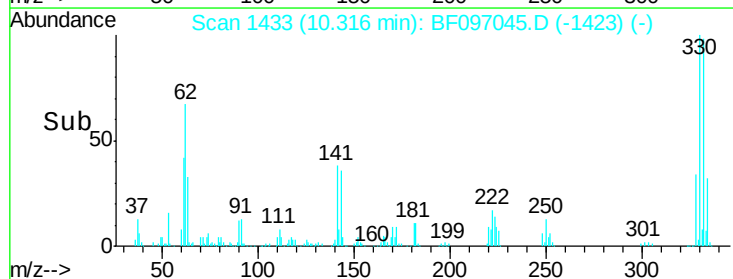
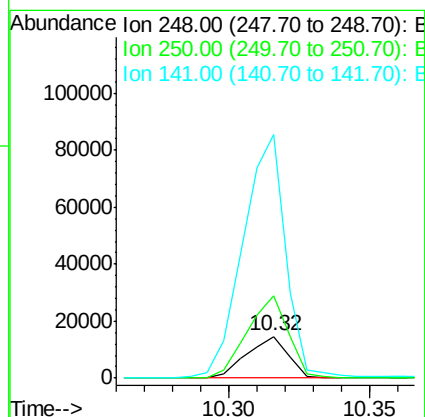
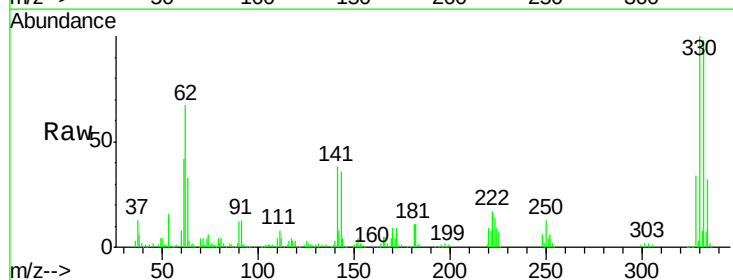
Instrument :
 BNA_F
 ClientSampleId :

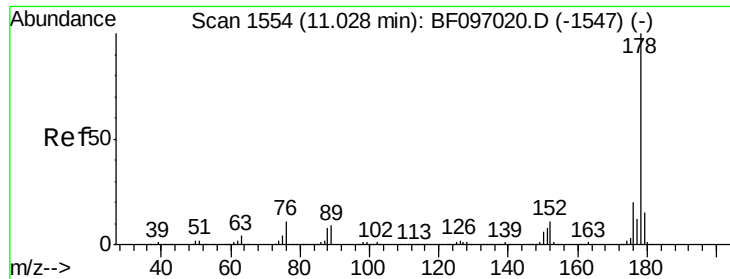
Tot Ion:188 Resp: 394147
 Ion Ratio Lower Upper
 188 100
 94 11.6 9.4 14.2
 80 12.1 10.2 15.2



#66
 4-Bromophenyl-phenylether
 Concen: 3.79 ng
 RT: 10.32 min Scan# 1433
 Delta R.T. -0.24 min
 Lab File: BF097045.D
 Acq: 25 Jul 2017 22:44

Tgt Ion:248 Resp: 14892
 Ion Ratio Lower Upper
 248 100
 250 197.1 76.8 115.2#
 141 583.1 68.6 103.0#





#70

Phenanthrene

Concen: 27.80 ng

RT: 11.03 min Scan# 1554

Delta R.T. -0.00 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

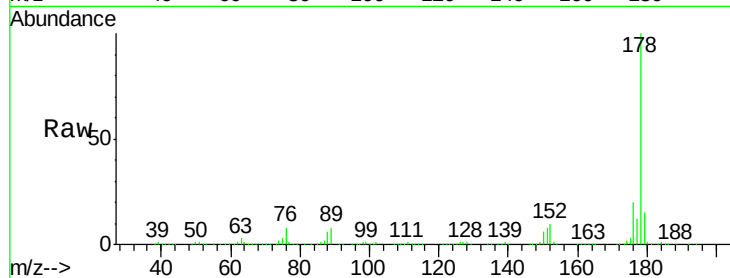
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 587040

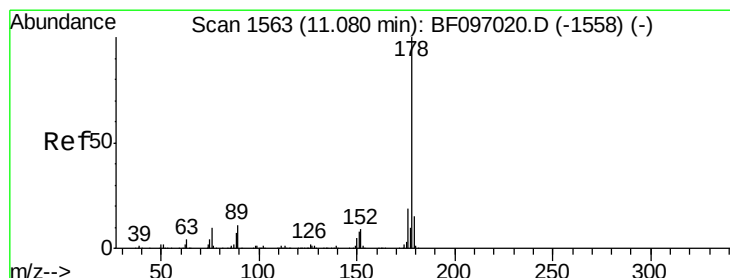
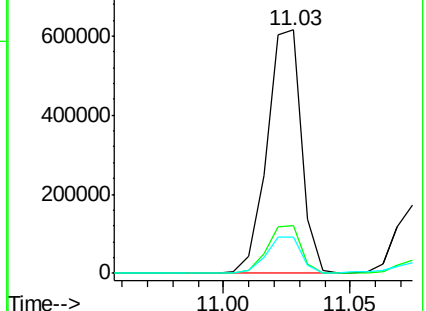
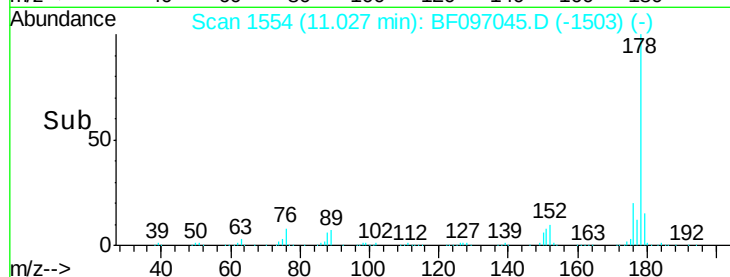
Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.2	24.4
179	14.9	12.6	19.0



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



#71

Anthracene

Concen: 6.64 ng

RT: 11.07 min Scan# 1562

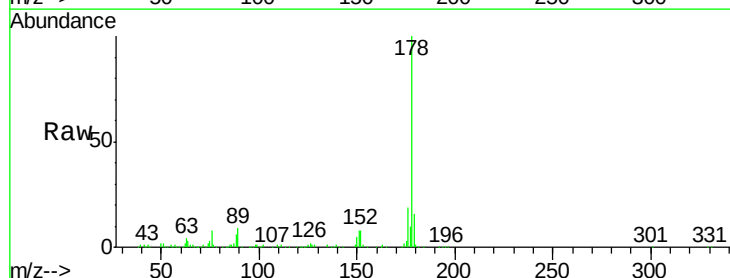
Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Tgt Ion:178 Resp: 143525

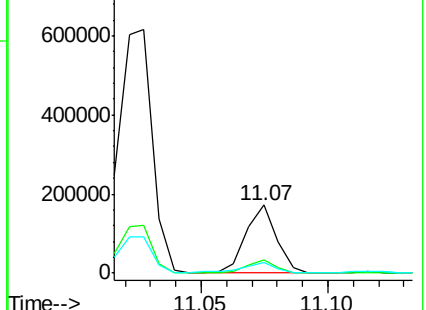
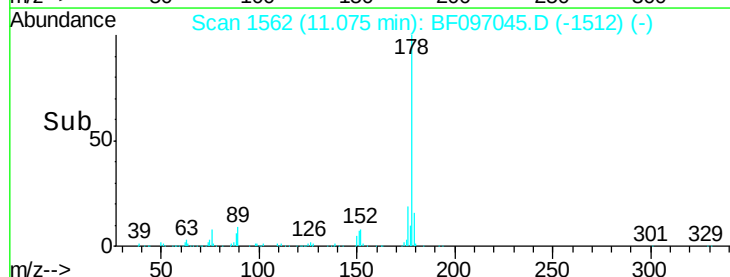
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	15.8	12.7	19.1

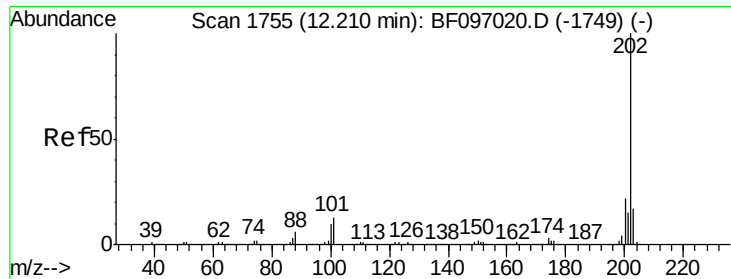


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

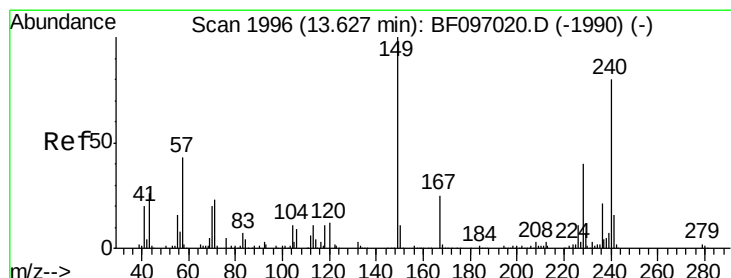
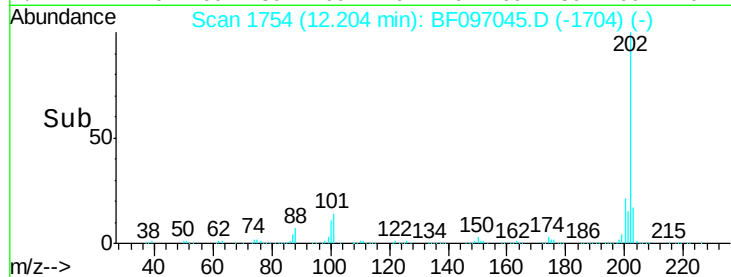
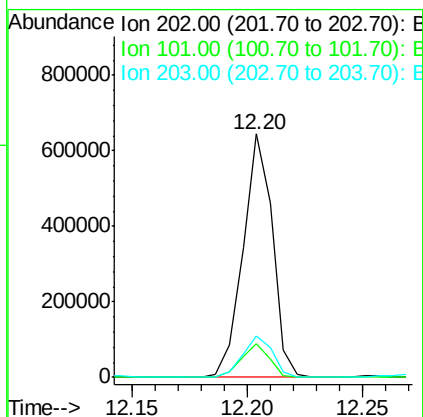
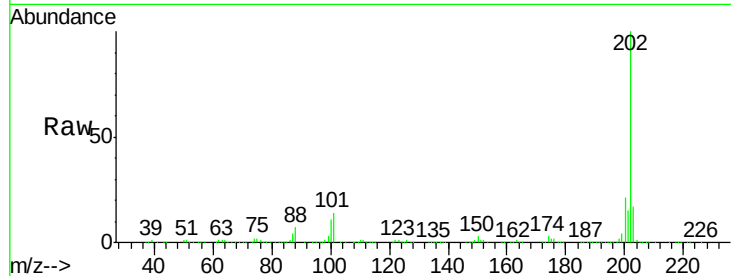




#74
Fluoranthene
Concen: 27.70 ng
RT: 12.20 min Scan# 1754
Delta R.T. -0.01 min
Lab File: BF097045.D
Acq: 25 Jul 2017 22:44

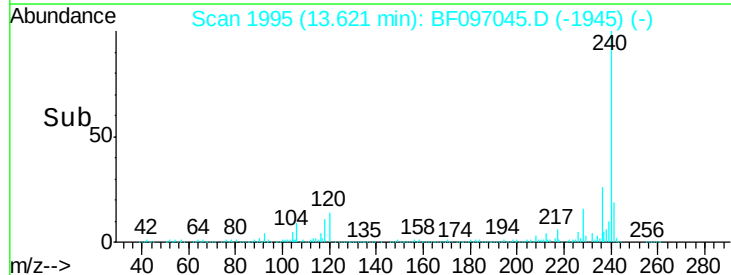
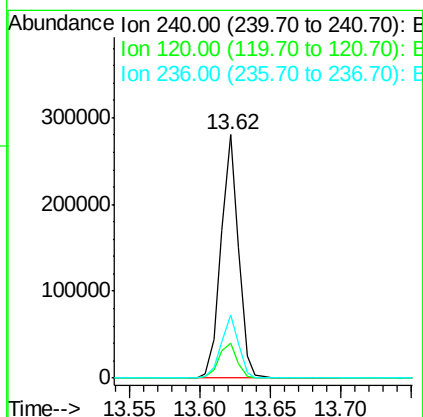
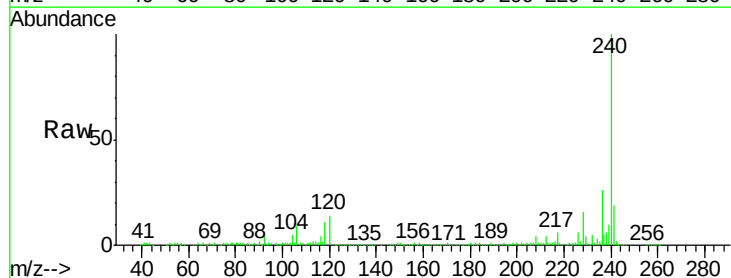
Instrument :
BNA_F
ClientSampleId :

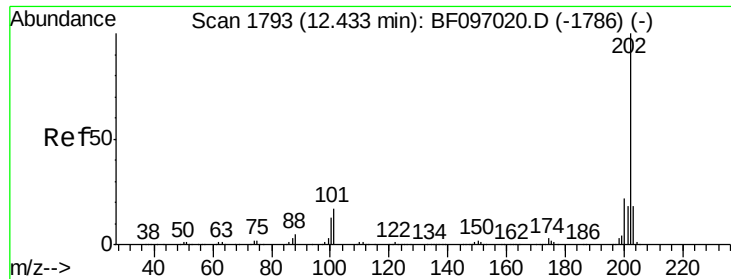
Tot Ion:202 Resp: 573090
Ion Ratio Lower Upper
202 100
101 13.6 0.0 33.2
203 16.9 0.0 38.1



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.62 min Scan# 1995
Delta R.T. -0.01 min
Lab File: BF097045.D
Acq: 25 Jul 2017 22:44

Tgt Ion:240 Resp: 242854
Ion Ratio Lower Upper
240 100
120 14.4 5.8 8.8#
236 25.8 20.5 30.7





#77

Pvrene

Concen: 22.21 ng

RT: 12.43 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Instrument :

BNA_F

ClientSampleId :

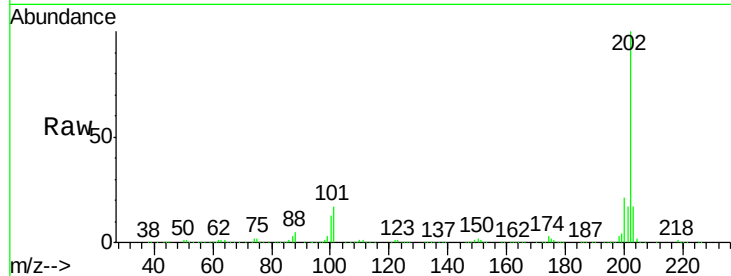
Tot Ion:202 Resp: 441536

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

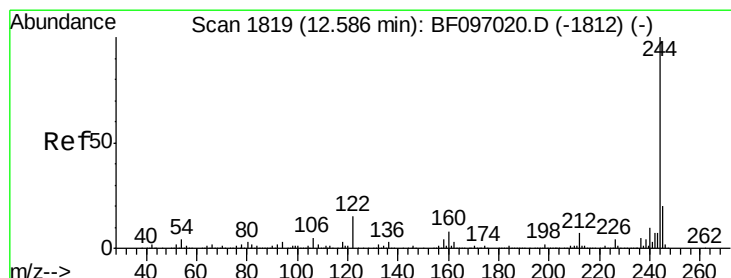
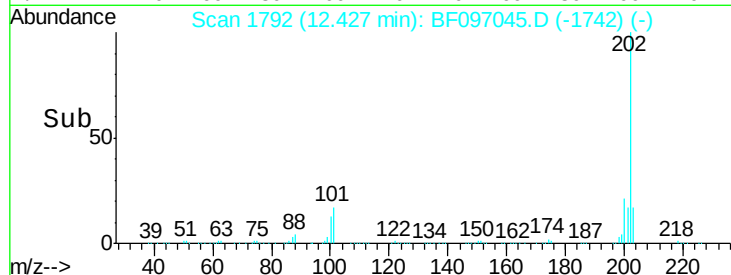
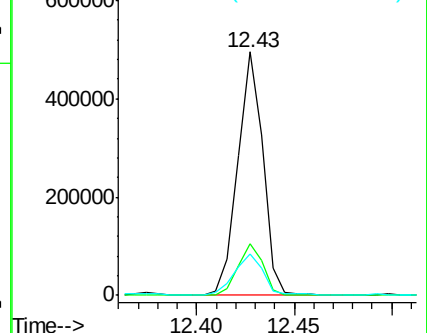
203 17.2 14.4 21.6



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: 53.30 ng

RT: 12.59 min Scan# 1819

Delta R.T. -0.00 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

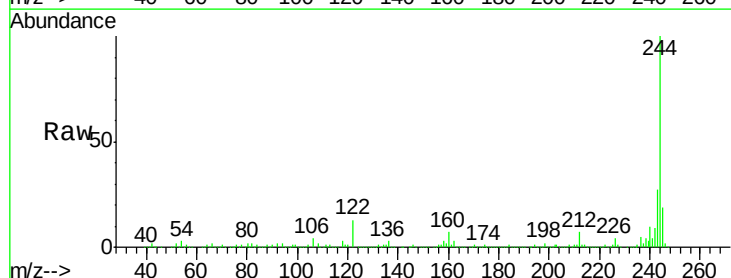
Tgt Ion:244 Resp: 634838

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

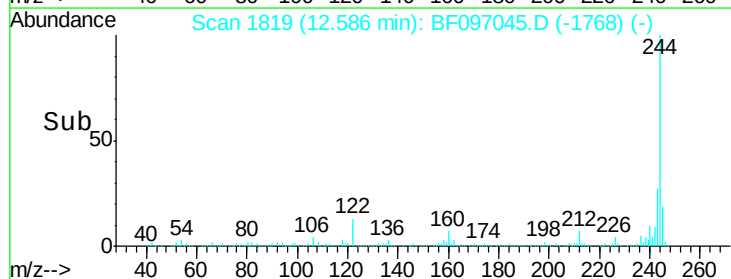
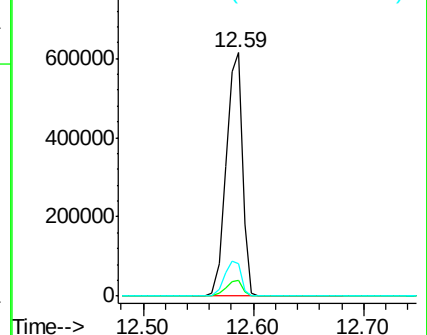
122 13.3 10.3 15.5

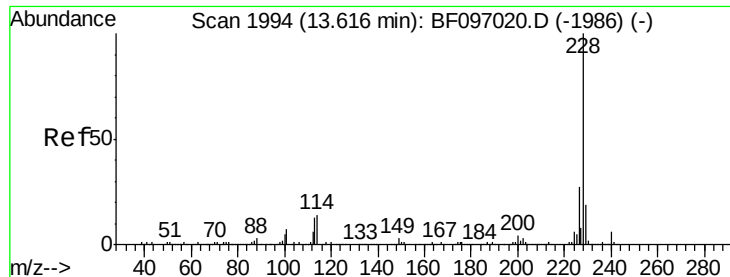


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.43 ng

RT: 13.61 min Scan# 1993

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Instrument :

BNA_F

ClientSampled :

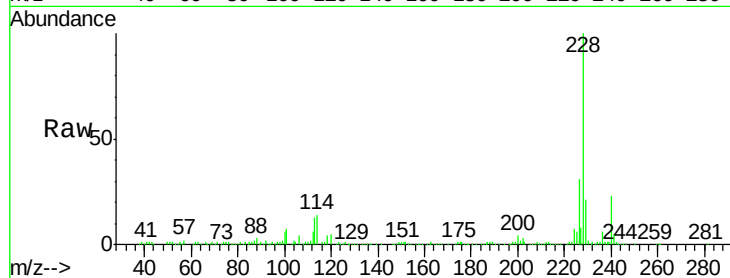
Tot Ion:228 Resp: 195353

Ion Ratio Lower Upper

228 100

226 31.1 22.6 33.8

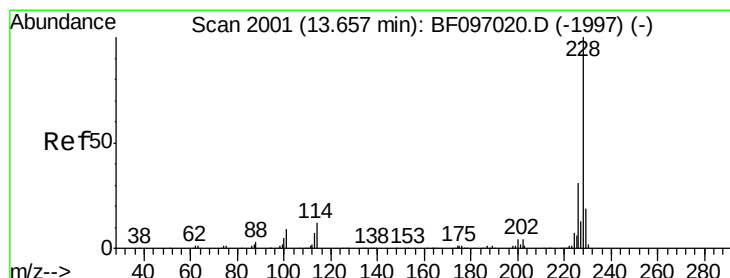
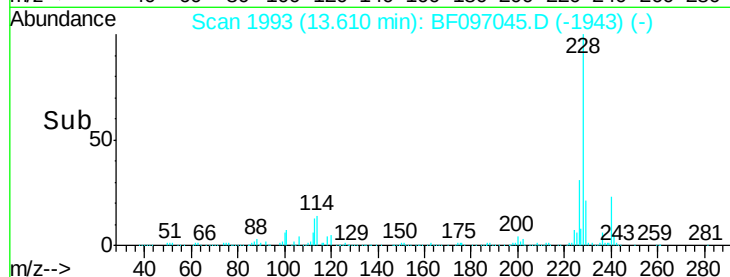
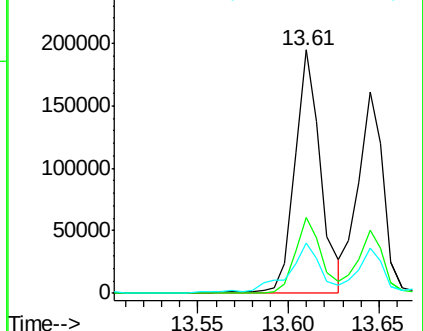
229 20.8 16.3 24.5



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: 10.14 ng

RT: 13.64 min Scan# 1999

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

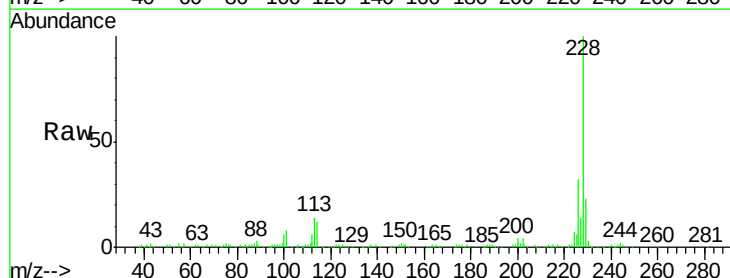
Tgt Ion:228 Resp: 155642

Ion Ratio Lower Upper

228 100

226 31.6 24.9 37.3

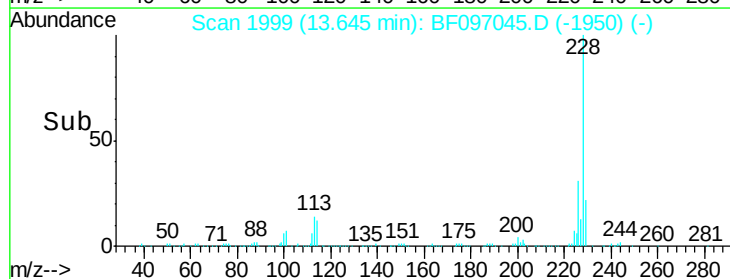
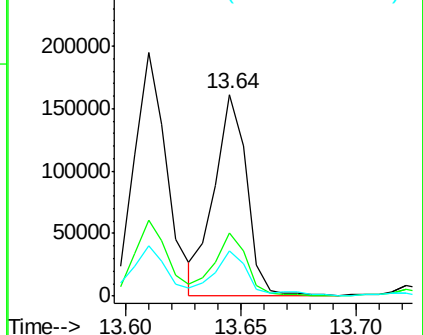
229 22.6 15.8 23.6

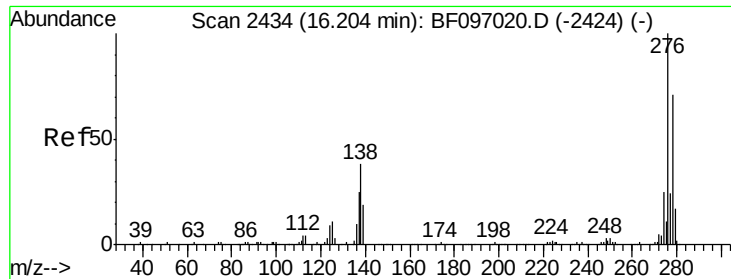


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

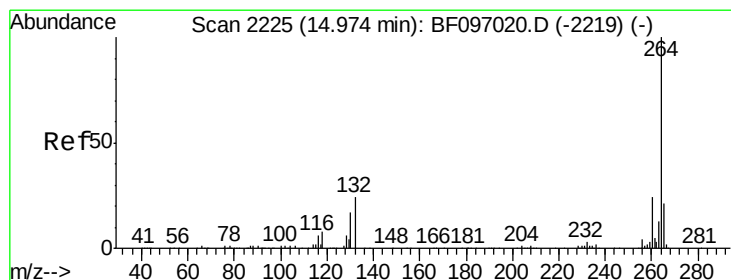
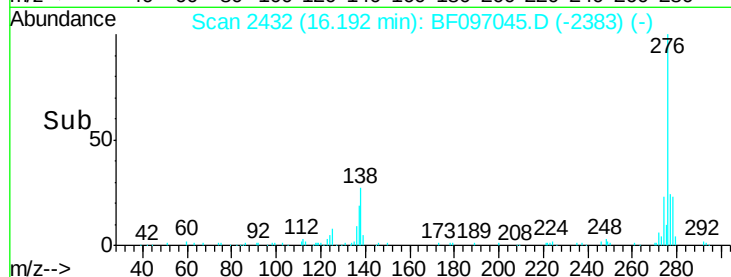
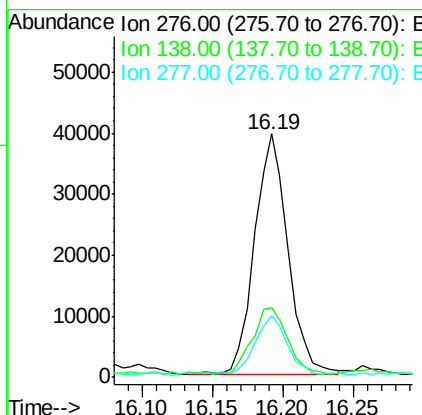
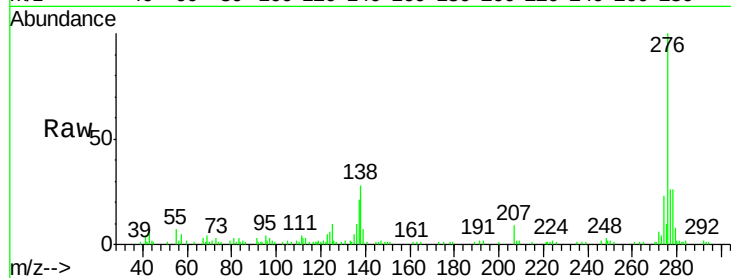




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.94 ng
 RT: 16.19 min Scan# 2432
 Delta R.T. -0.01 min
 Lab File: BF097045.D
 Acq: 25 Jul 2017 22:44

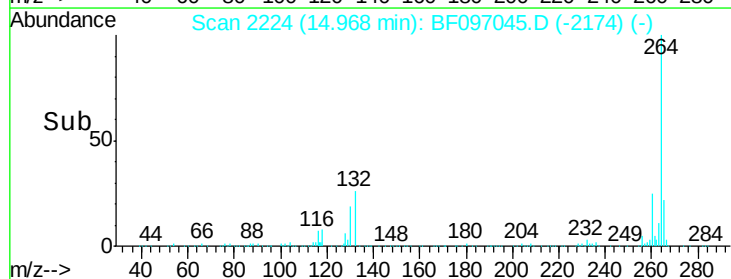
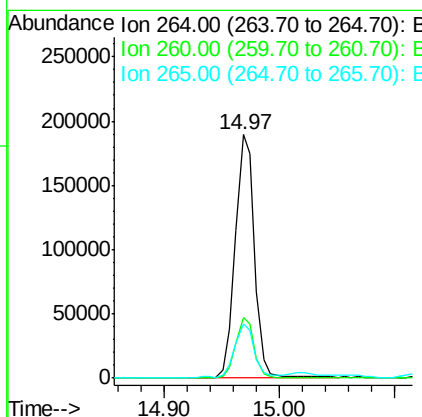
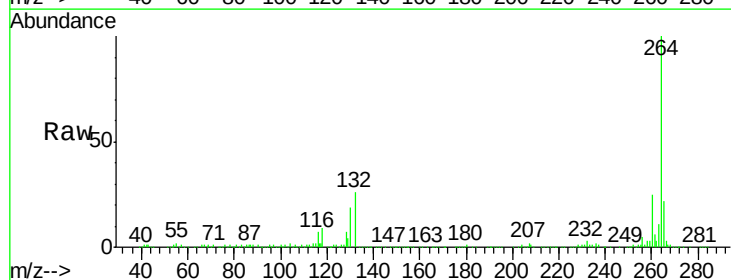
Instrument :
 BNA_F
 ClientSampleId :

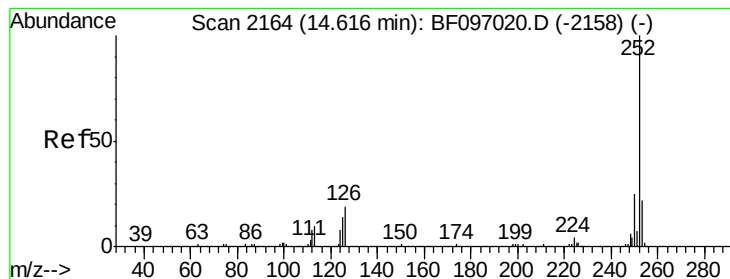
Tot Ion:276 Resp: 65028
 Ion Ratio Lower Upper
 276 100
 138 29.4 27.8 41.6
 277 26.1 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.97 min Scan# 2224
 Delta R.T. -0.01 min
 Lab File: BF097045.D
 Acq: 25 Jul 2017 22:44

Tgt Ion:264 Resp: 219842
 Ion Ratio Lower Upper
 264 100
 260 24.9 19.5 29.3
 265 22.2 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 17.46 ng

RT: 14.61 min Scan# 2163

Delta R.T. -0.01 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

Instrument :

BNA_F

ClientSampleId :

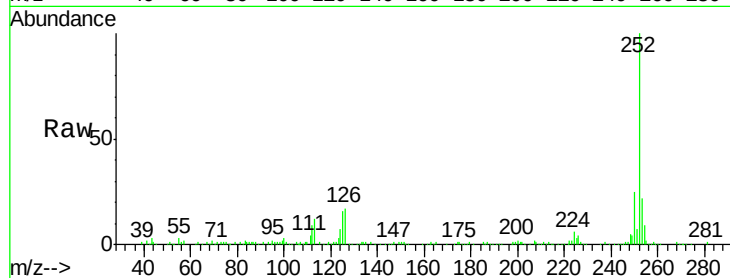
Tot Ion:252 Resp: 230709

Ion Ratio Lower Upper

252 100

253 22.0 18.1 27.1

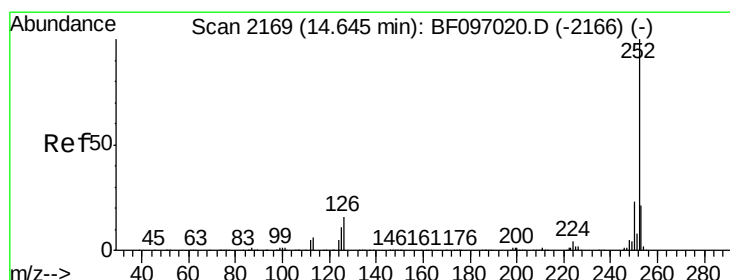
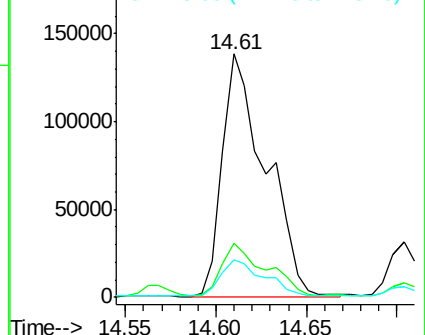
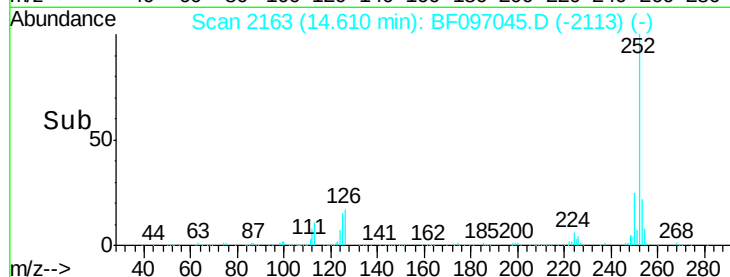
125 15.5 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 18.32 ng

RT: 14.61 min Scan# 2163

Delta R.T. -0.04 min

Lab File: BF097045.D

Acq: 25 Jul 2017 22:44

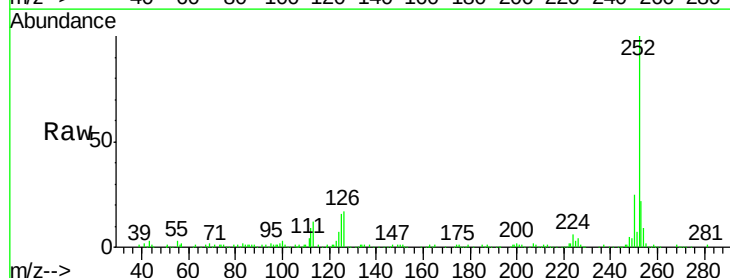
Tgt Ion:252 Resp: 230709

Ion Ratio Lower Upper

252 100

253 22.0 18.4 27.6

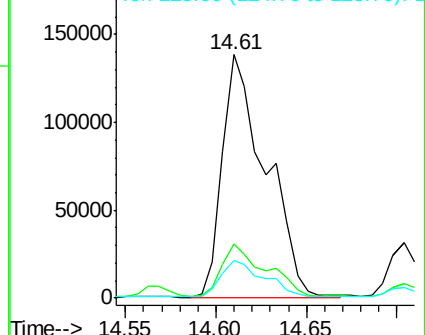
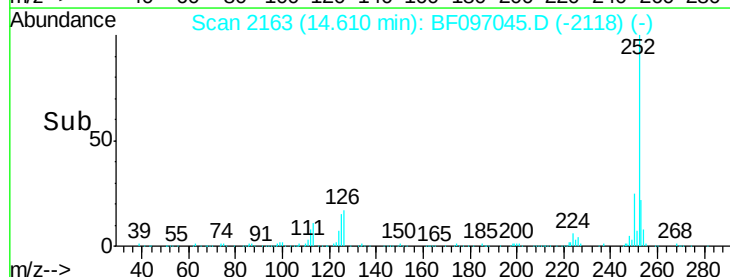
125 15.5 13.1 19.7

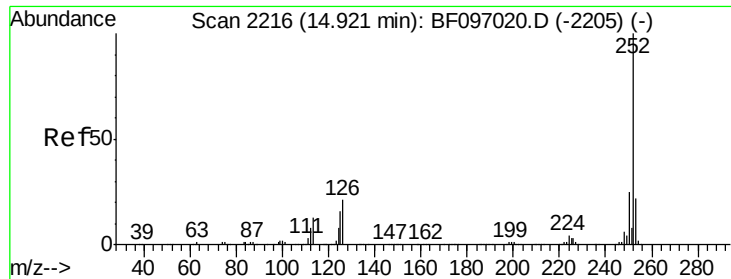


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

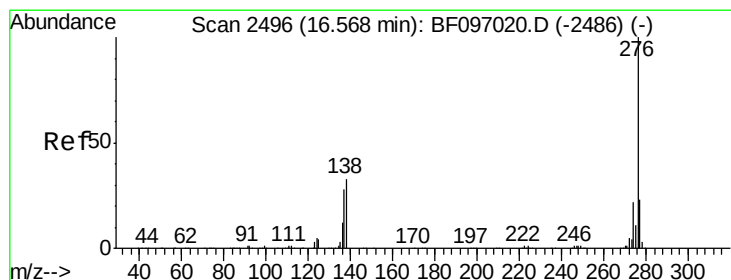
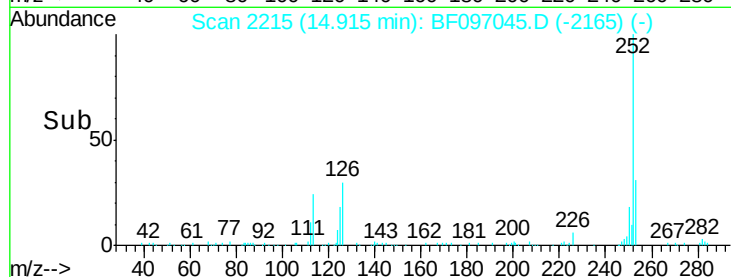
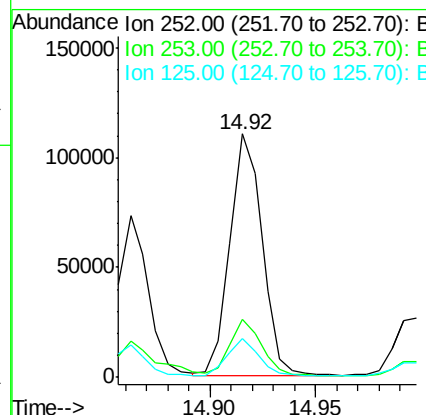
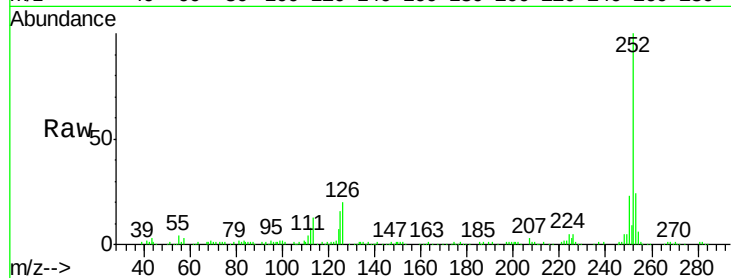




#89
Benzo(a)pyrene
Concen: 9.70 ng
RT: 14.92 min Scan# 2215
Delta R.T. -0.01 min
Lab File: BF097045.D
Acq: 25 Jul 2017 22:44

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	15.9	11.0	16.4



#91
Benzo(g,h,i)perylene
Concen: 5.53 ng
RT: 16.56 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BF097045.D
Acq: 25 Jul 2017 22:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.0	18.6	28.0
138	32.7	25.4	38.0

