

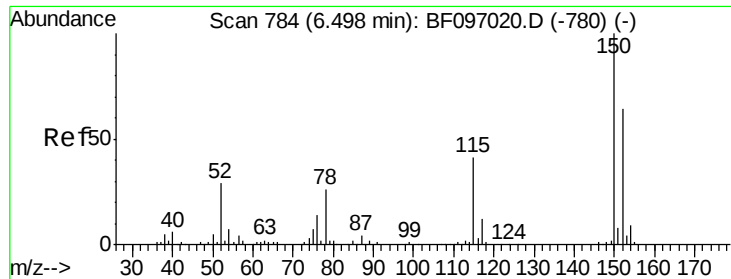
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
 Data File : BF097252.D
 Acq On : 2 Aug 2017 4:14
 Operator : SJ/JU
 Sample : I4471-16 2X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-BASE

Quant Time: Aug 02 05:34:42 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	6.46	152	109792	20.00	ng	-0.04
21) Naphthalene-d8	7.75	136	402927	20.00	ng	-0.04
38) Acenaphthene-d10	9.49	164	144419	20.00	ng	-0.04
63) Phenanthrene-d10	10.96	188	220881	20.00	ng	-0.04
75) Chrysene-d12	13.59	240	223872	20.00	ng	-0.04
86) Perylene-d12	14.93	264	181113	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	374780	51.46	ng	-0.03
7) Phenol-d6	6.13	99	450051	54.13	ng	-0.04
23) Nitrobenzene-d5	7.03	82	239484	34.87	ng	-0.05
41) 2,4,6-Tribromophenol	10.28	330	52664	46.15	ng	-0.04
44) 2-Fluorobiphenyl	8.82	172	340656	40.03	ng	-0.05
78) Terphenyl-d14	12.54	244	258925	23.58	ng	-0.04
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.03	70	31511	5.76	ng	# 84
25) Isophorone	7.03	82	237258	17.64	ng	# 67
49) Dimethylphthalate	9.22	163	63315	5.77	ng	99
50) 2,6-Dinitrotoluene	9.49	165	18201	7.82	ng	# 34
55) 4-Nitrophenol	9.70	139	3960	2.31	ng	# 25
56) 2,4-Dinitrotoluene	9.49	165	18201	6.81	ng	# 33
70) Phenanthrene	10.99	178	145577	12.30	ng	97
71) Anthracene	11.04	178	32779	2.70	ng	97
74) Fluoranthene	12.17	202	206170	17.78	ng	98
77) Pyrene	12.39	202	182103	9.94	ng	99
80) Benzo(a)anthracene	13.57	228	93555	6.46	ng	100
82) Chrysene	13.61	228	84388	5.97	ng	99
85) Indeno(1,2,3-cd)pyrene	16.14	276	27558	2.27	ng	92
87) Benzo(b)fluoranthene	14.58	252	128190	11.77	ng	# 95
88) Benzo(k)fluoranthene	14.58	252	128190	12.36	ng	97
89) Benzo(a)pyrene	14.88	252	59948	6.02	ng	98
91) Benzo(a,h,i)perylene	16.50	276	26388	3.08	ng	92

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.46 min Scan# 778

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

Instrument :

BNA_F

ClientSampleId :

E2-L6-BASE

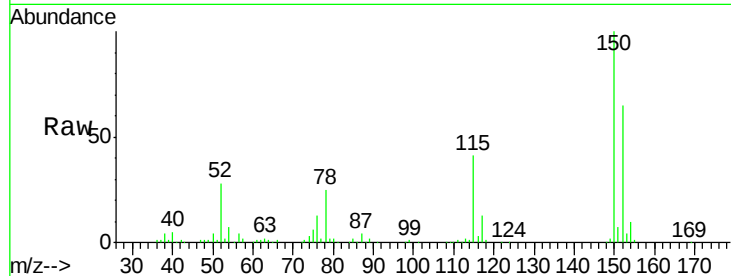
Tot Ion:152 Resp: 109792

Ion Ratio Lower Upper

152 100

150 154.3 126.2 189.2

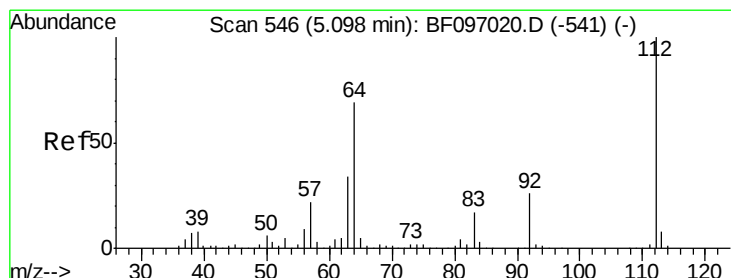
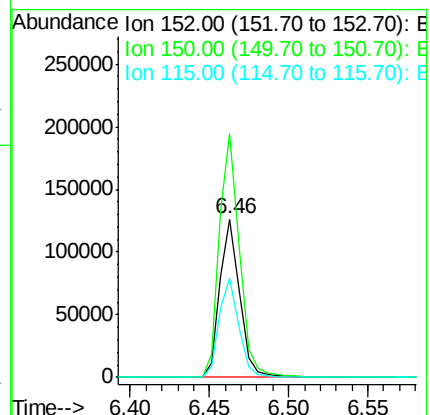
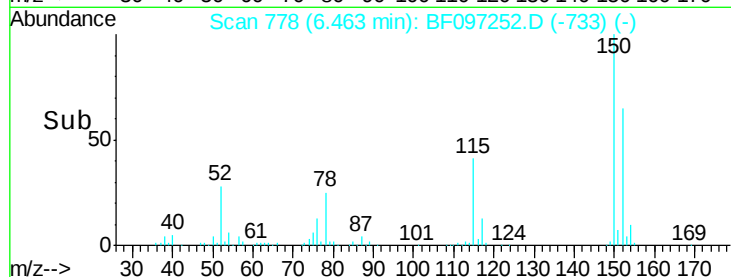
115 63.1 52.2 78.2



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: 51.46 ng

RT: 5.06 min Scan# 540

Delta R.T. -0.03 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

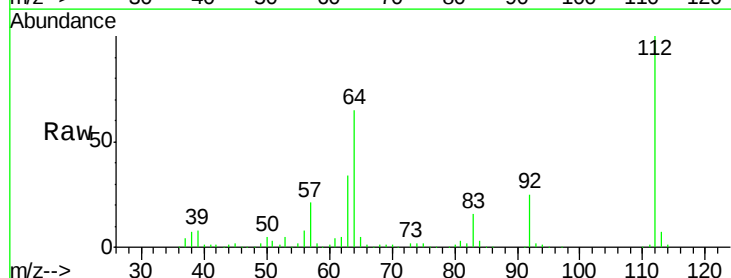
Tgt Ion:112 Resp: 374780

Ion Ratio Lower Upper

112 100

64 65.2 46.0 69.0

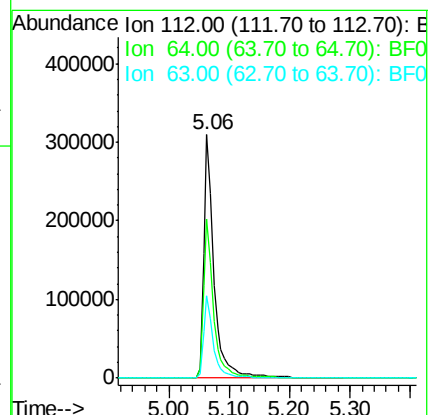
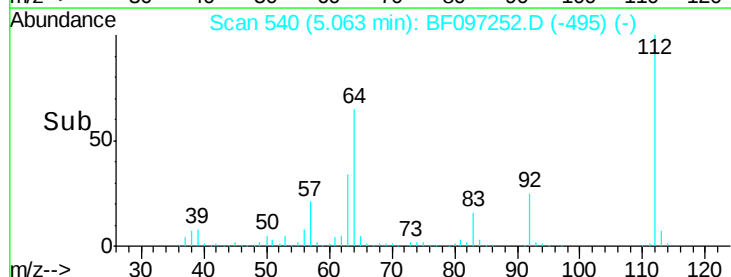
63 33.6 23.4 35.0

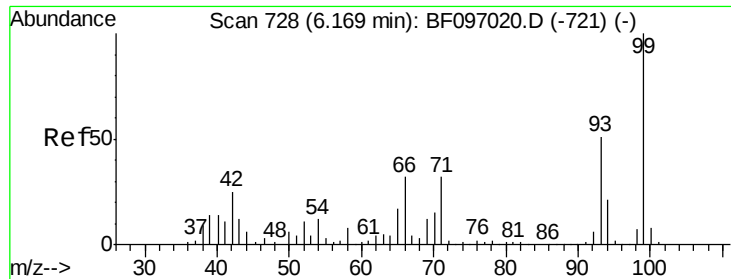


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 54.13 ng

RT: 6.13 min Scan# 722

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

Instrument :

BNA_F

ClientSampled :

E2-L6-BASE

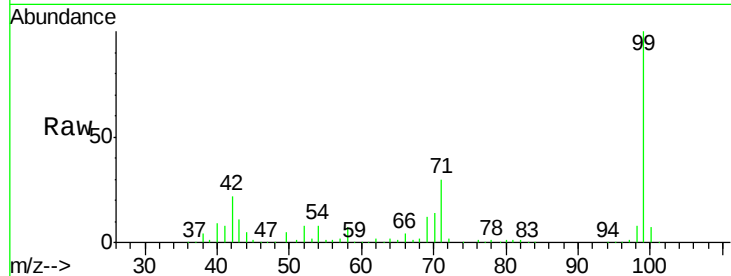
Tot Ion: 99 Resp: 450051

Ion Ratio Lower Upper

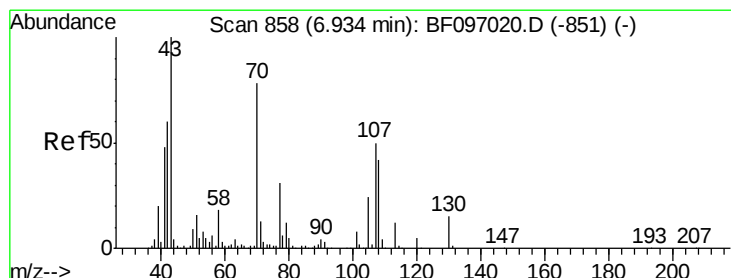
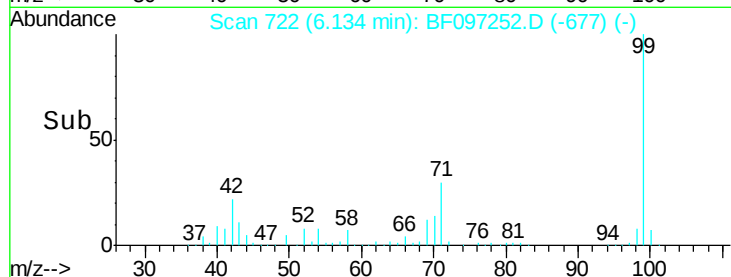
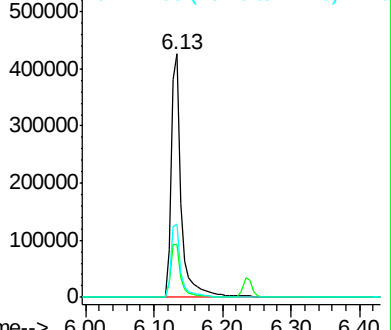
99 100

42 21.8 13.5 20.3#

71 29.9 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



#19

n-Nitroso-di-n-propylamine

Concen: 5.76 ng

RT: 7.03 min Scan# 874

Delta R.T. 0.09 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

Tgt Ion: 70 Resp: 31511

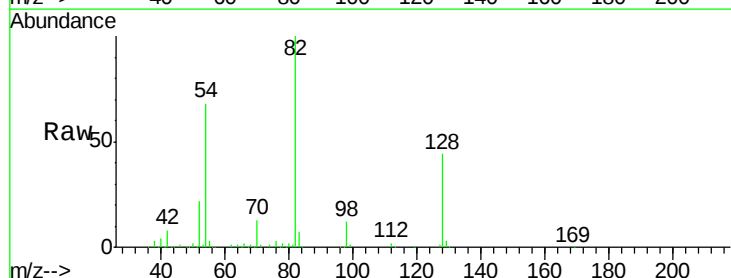
Ion Ratio Lower Upper

70 100

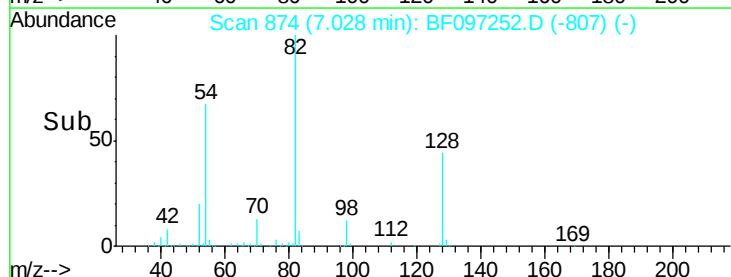
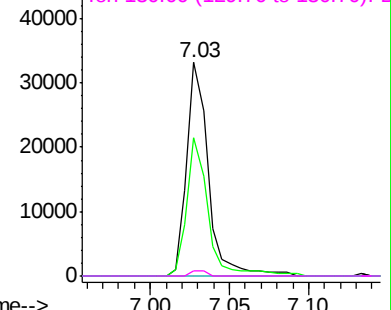
42 64.5 47.2 70.8

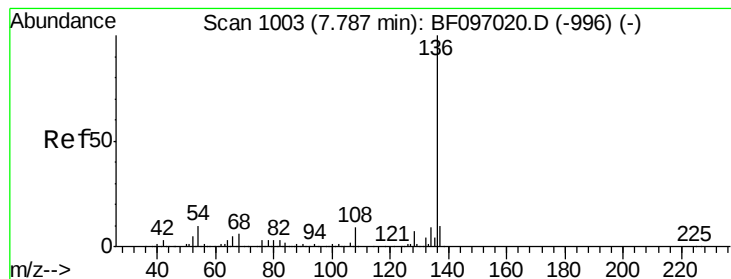
101 0.0 7.2 10.8#

130 2.4 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: 7.75 min Scan# 996

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

Instrument :

BNA_F

ClientSampleId :

E2-L6-BASE

Tot Ion:136 Resp: 402927

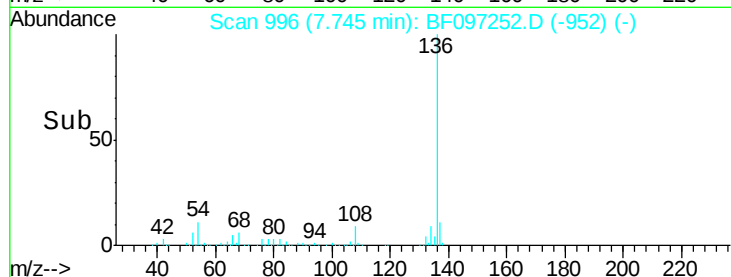
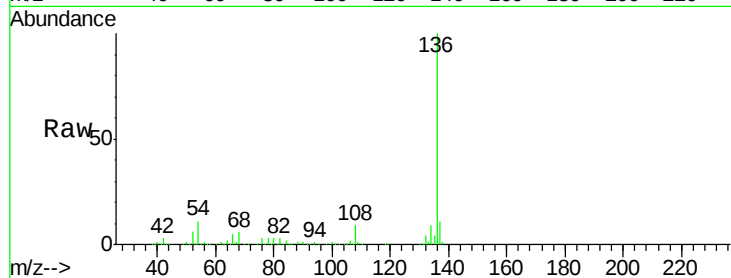
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 10.6 4.9 7.3#

68 6.0 4.1 6.1

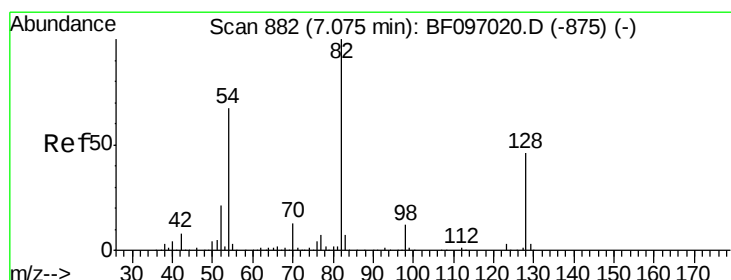
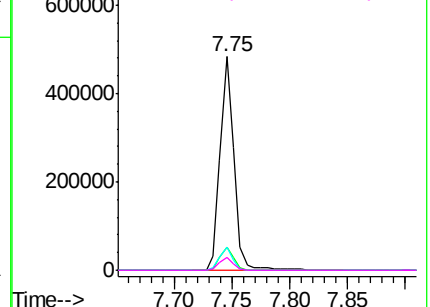


Abundance Ion 136.00 (135.70 to 136.70): E

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: 34.87 ng

RT: 7.03 min Scan# 874

Delta R.T. -0.05 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

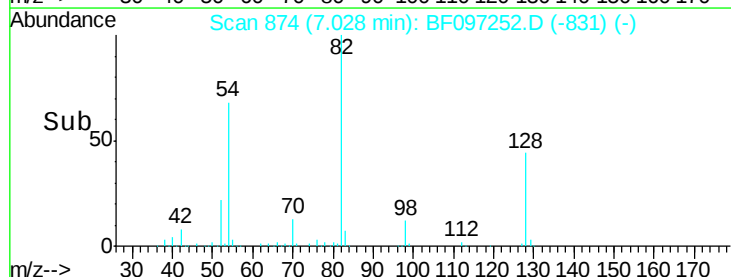
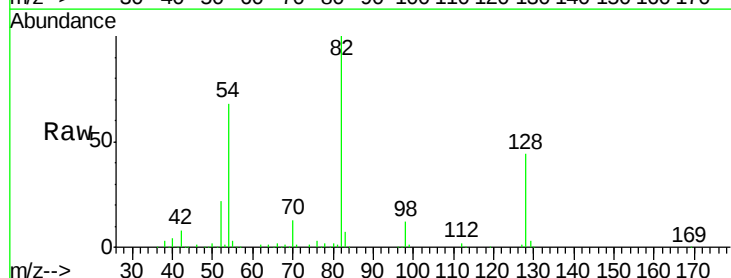
Tgt Ion: 82 Resp: 239484

Ion Ratio Lower Upper

82 100

128 43.9 34.0 51.0

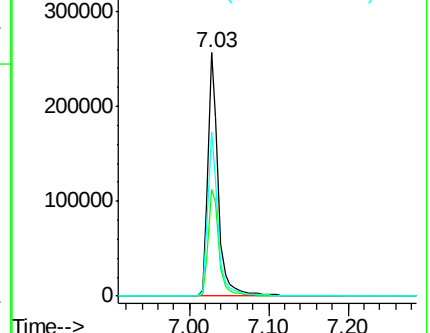
54 67.5 42.2 63.2#

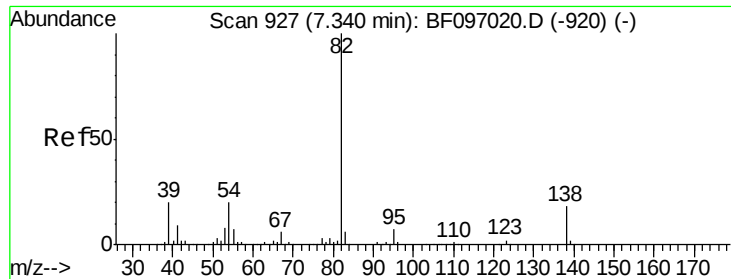


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 17.64 ng

RT: 7.03 min Scan# 874

Delta R.T. -0.31 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

Instrument :

BNA_F

ClientSampleId :

E2-L6-BASE

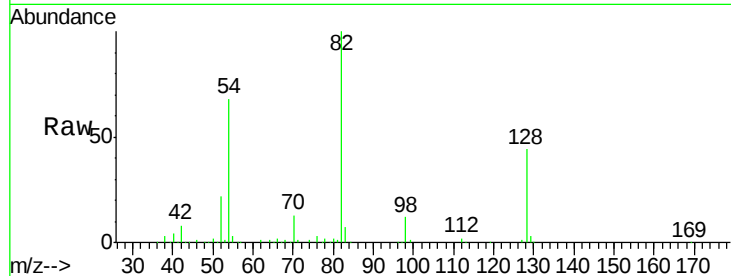
Tot Ion: 82 Resp: 237258

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

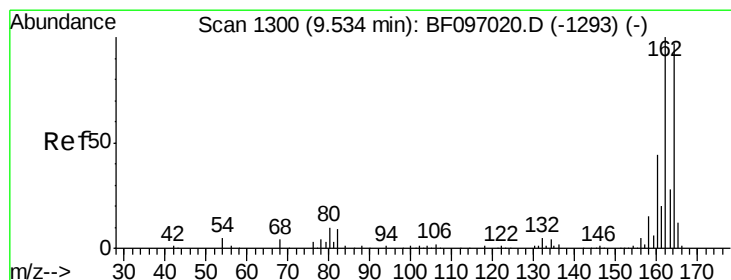
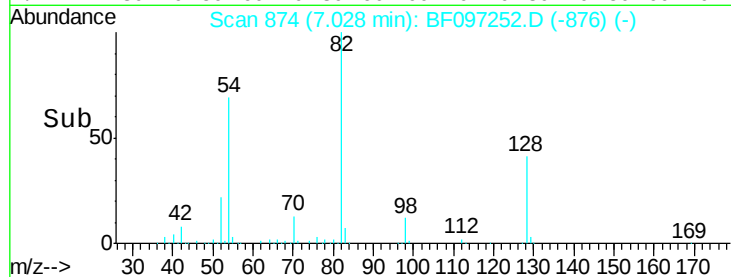
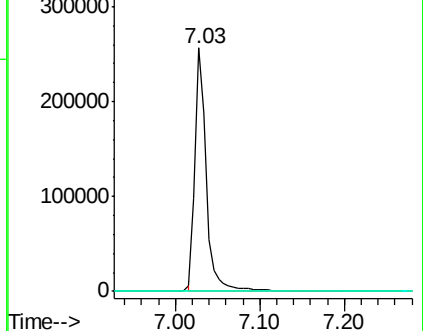
138 0.0 13.1 19.7#



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.49 min Scan# 1293

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

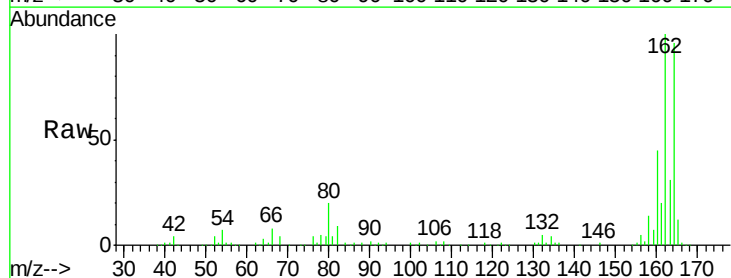
Tgt Ion:164 Resp: 144419

Ion Ratio Lower Upper

164 100

162 103.7 82.6 123.8

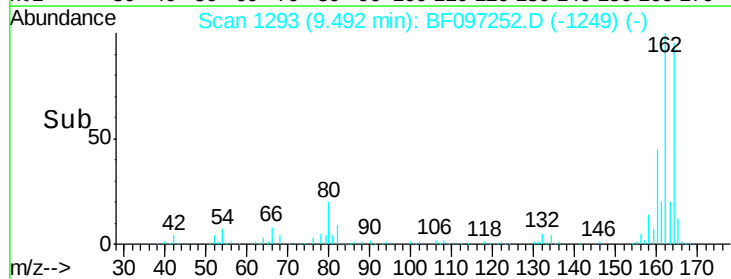
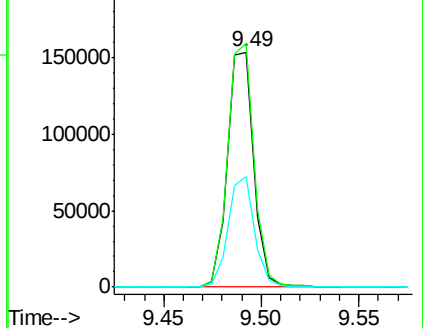
160 46.9 36.2 54.2

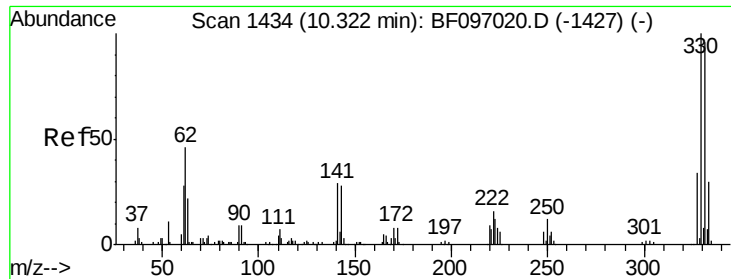


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

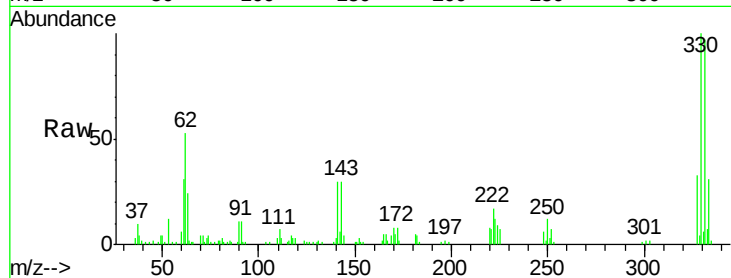




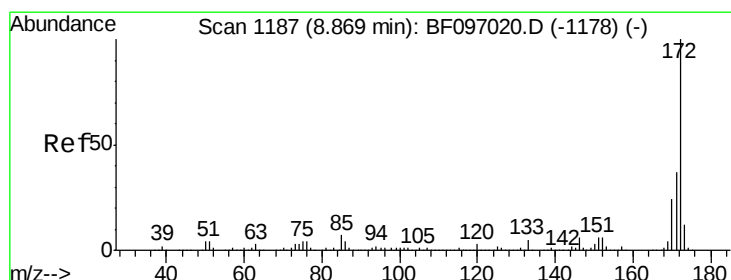
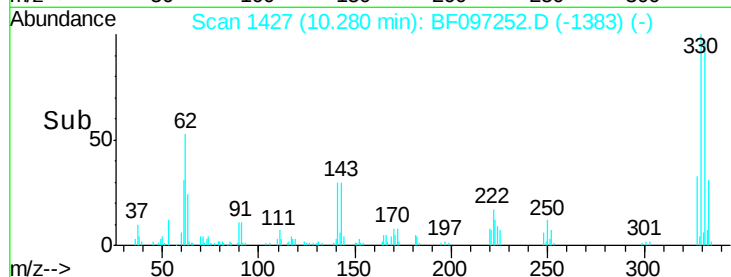
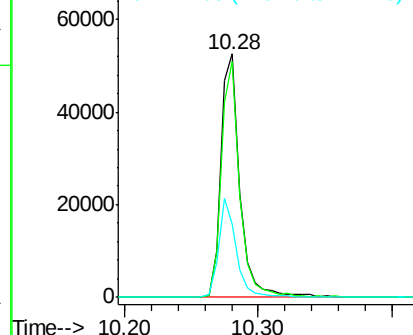
#41
 2,4,6-Tribromophenol
 Concen: 46.15 ng
 RT: 10.28 min Scan# 1427
 Delta R.T. -0.04 min
 Lab File: BF097252.D
 Acq: 2 Aug 2017 4:14

Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-BASE

Tot Ion:330 Resp: 52664
 Ion Ratio Lower Upper
 330 100
 332 94.1 76.6 115.0
 141 37.7 31.4 47.2

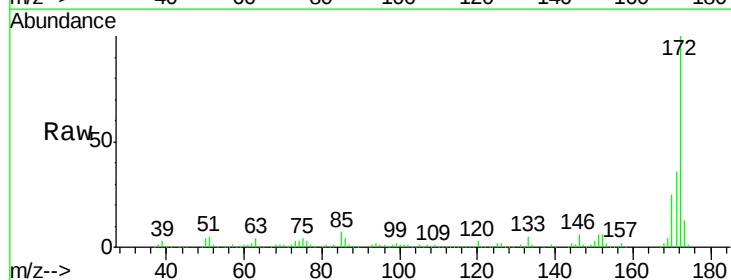


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

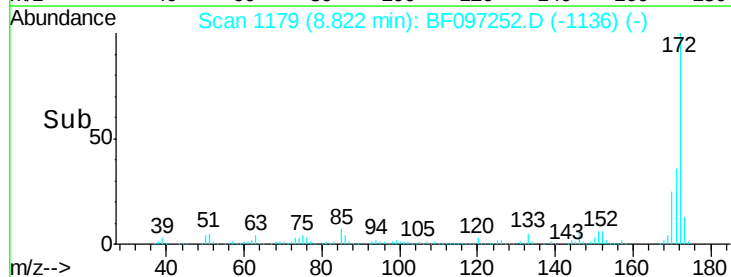
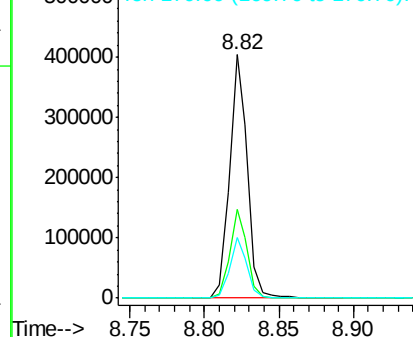


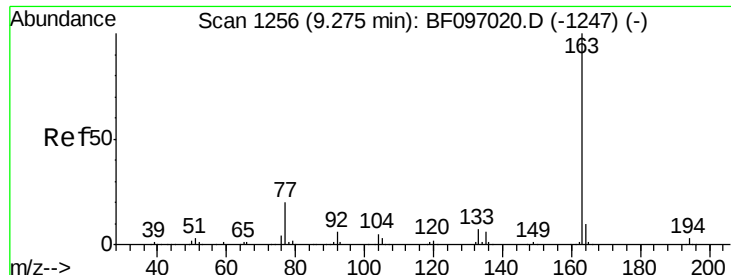
#44
 2-Fluorobiphenyl
 Concen: 40.03 ng
 RT: 8.82 min Scan# 1179
 Delta R.T. -0.05 min
 Lab File: BF097252.D
 Acq: 2 Aug 2017 4:14

Tgt Ion:172 Resp: 340656
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.6 44.4
 170 24.7 19.8 29.8



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

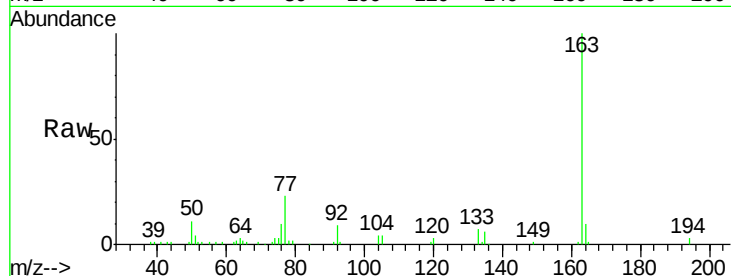




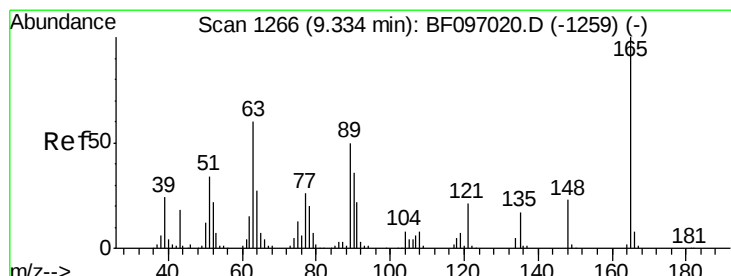
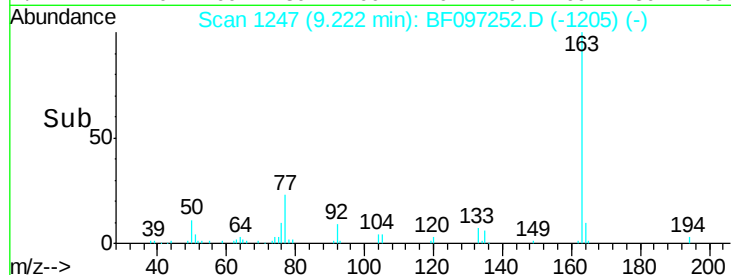
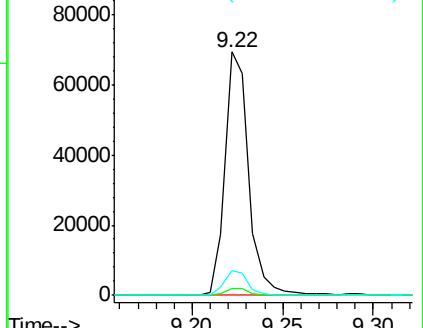
#49
Dimethylphthalate
Concen: 5.77 ng
RT: 9.22 min Scan# 1247
Delta R.T. -0.05 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

Instrument :
BNA_F
ClientSampleId :
E2-L6-BASE

Tot Ion:163 Resp: 63315
Ion Ratio Lower Upper
163 100
194 2.8 2.6 4.0
164 10.3 8.4 12.6

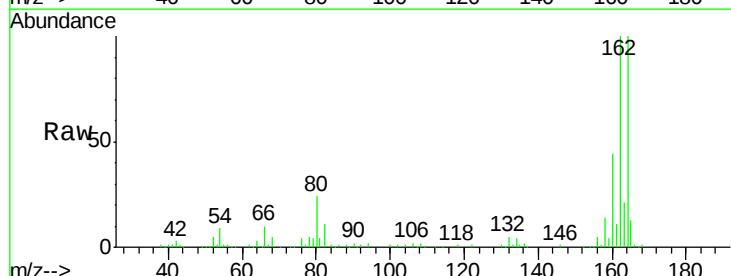


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

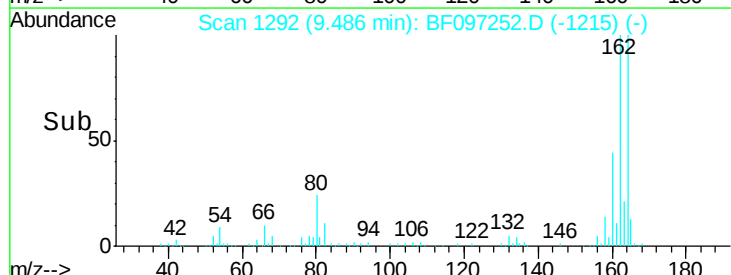
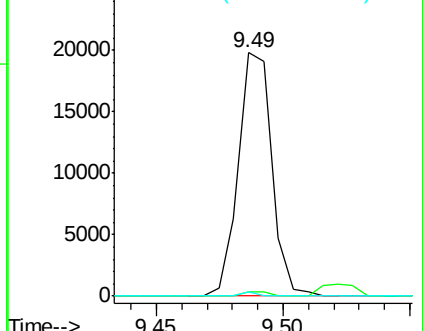


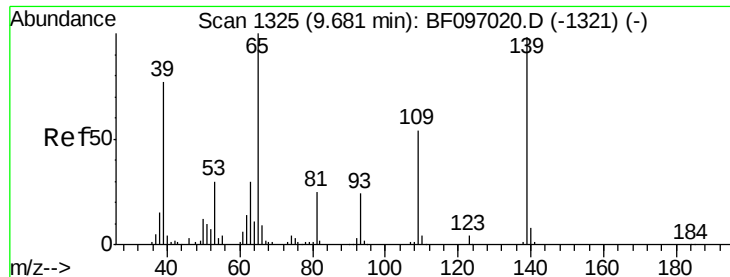
#50
2,6-Dinitrotoluene
Concen: 7.82 ng
RT: 9.49 min Scan# 1292
Delta R.T. 0.15 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

Tgt Ion:165 Resp: 18201
Ion Ratio Lower Upper
165 100
63 1.6 34.3 51.5#
89 1.7 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

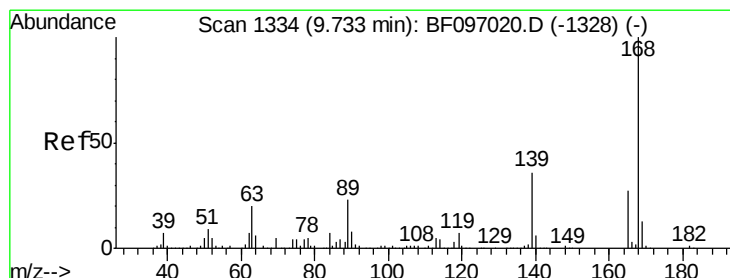
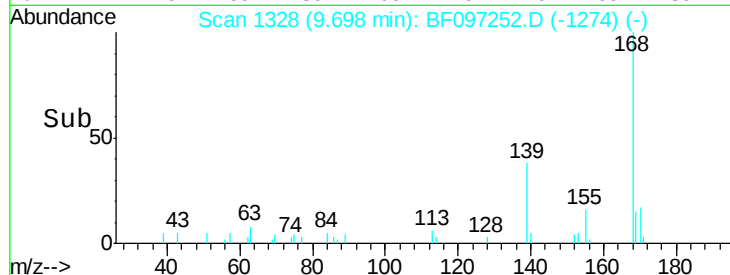
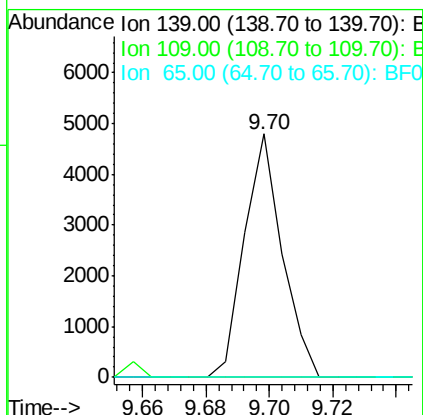
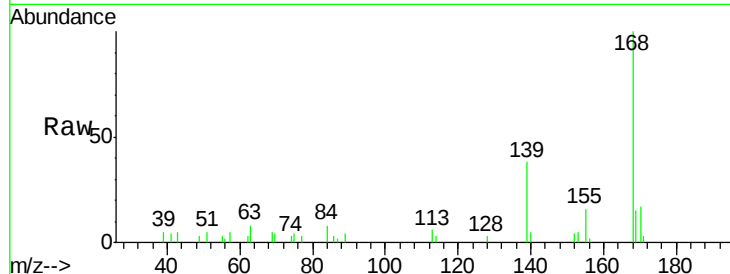




#55
4-Nitrophenol
Concen: 2.31 ng
RT: 9.70 min Scan# 1328
Delta R.T. 0.02 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

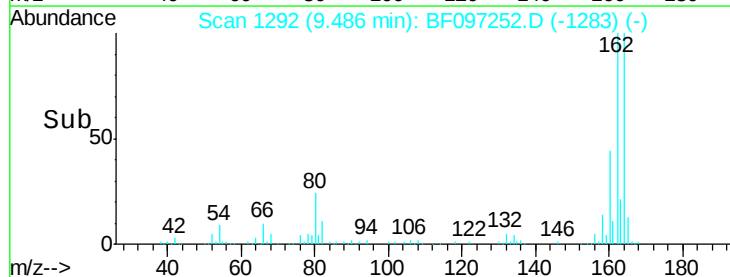
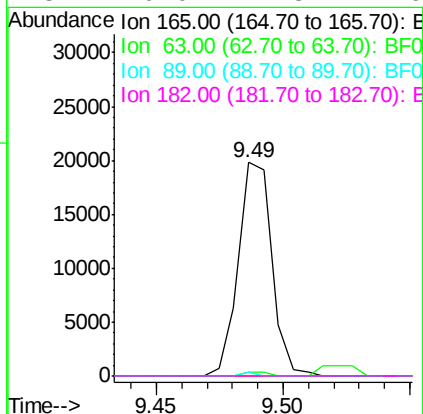
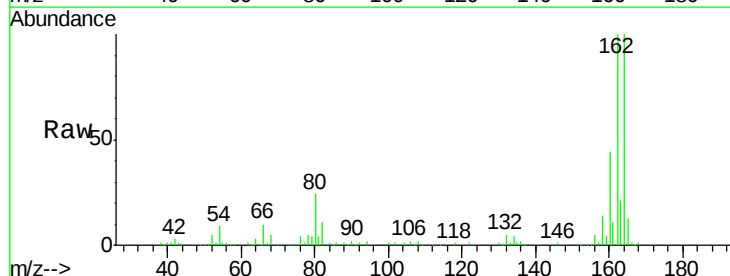
Instrument :
BNA_F
ClientSampleId :
E2-L6-BASE

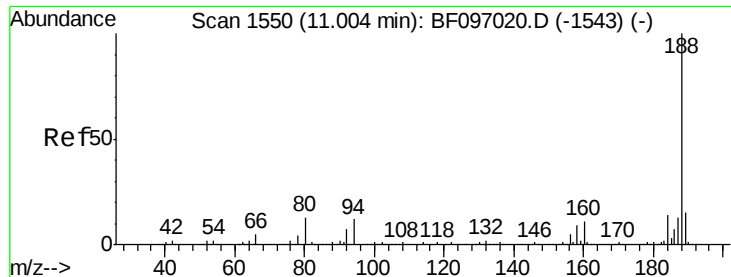
Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	34.1	74.1#
65	0.0	31.4	71.4#



#56
2,4-Dinitrotoluene
Concen: 6.81 ng
RT: 9.49 min Scan# 1292
Delta R.T. -0.25 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	25.4	38.0#
89	1.7	46.4	69.6#
182	0.0	1.8	2.6#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.96 min Scan# 1543

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

Instrument :

BNA_F

ClientSampleId :

E2-L6-BASE

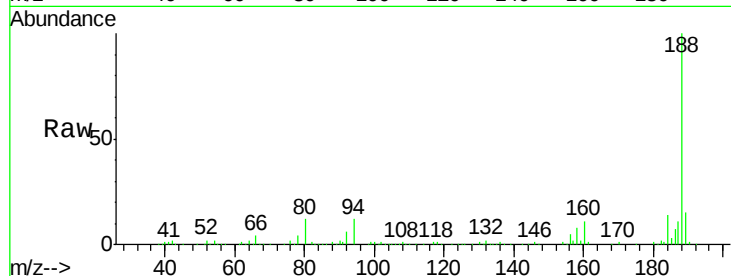
Tot Ion:188 Resp: 220881

Ion Ratio Lower Upper

188 100

94 12.1 9.4 14.2

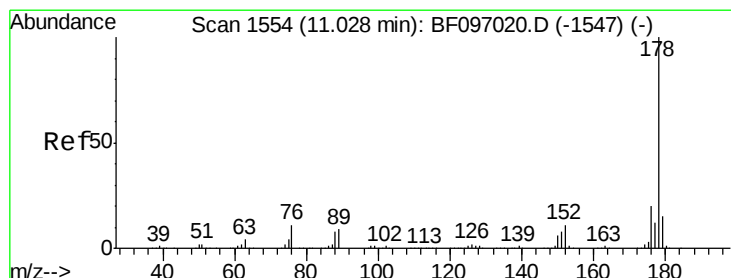
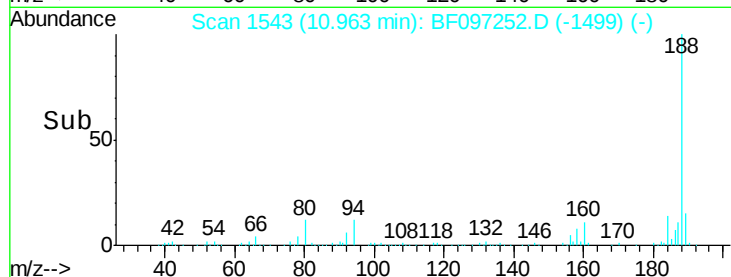
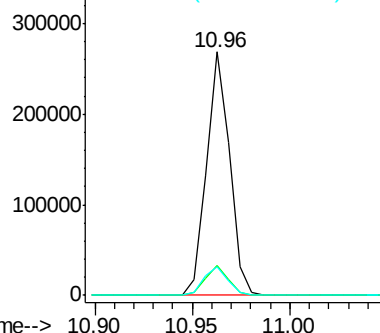
80 11.9 10.2 15.2



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: 12.30 ng

RT: 10.99 min Scan# 1547

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

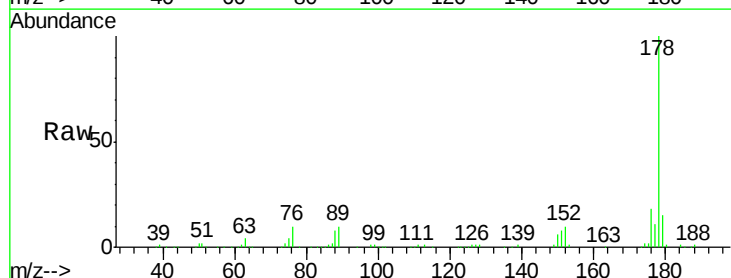
Tgt Ion:178 Resp: 145577

Ion Ratio Lower Upper

178 100

176 18.4 16.2 24.4

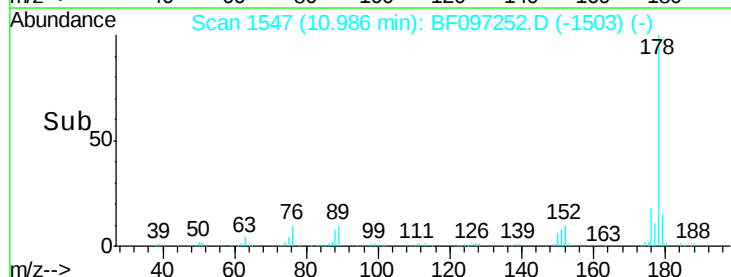
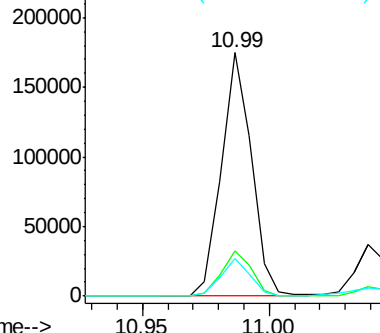
179 15.4 12.6 19.0

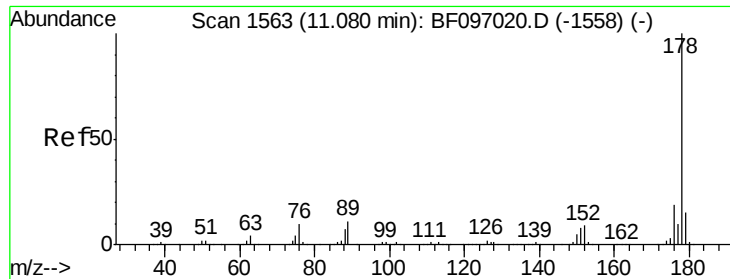


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

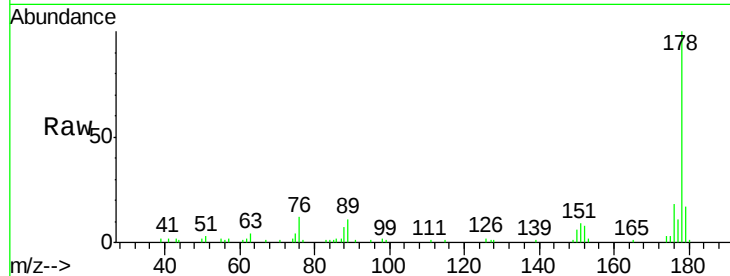




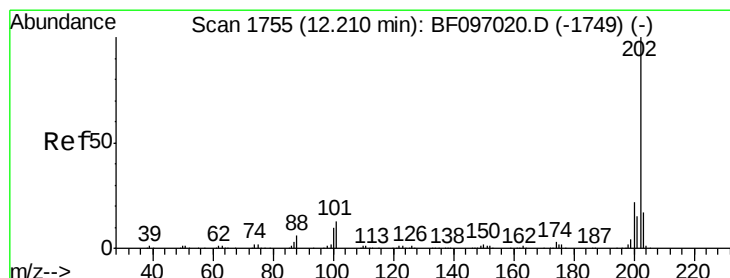
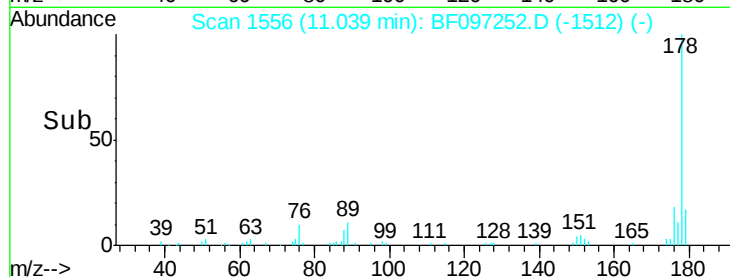
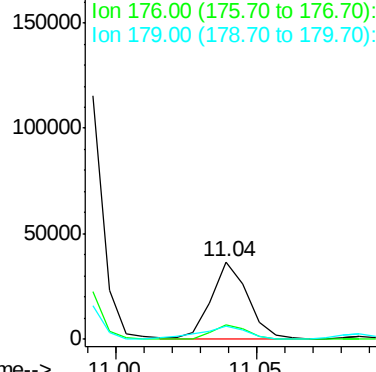
#71
 Anthracene
 Concen: 2.70 ng
 RT: 11.04 min Scan# 1556
 Delta R.T. -0.04 min
 Lab File: BF097252.D
 Acq: 2 Aug 2017 4:14

Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-BASE

Tot Ion:178 Resp: 32779
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.8 23.8
 179 17.1 12.7 19.1

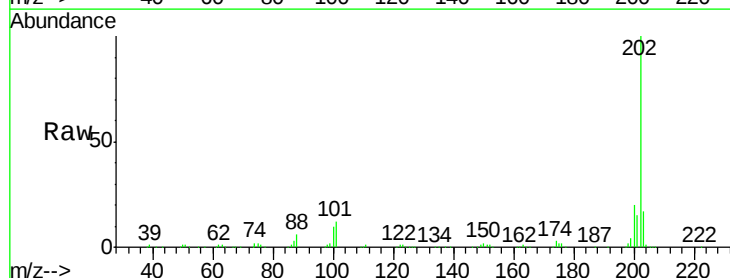


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

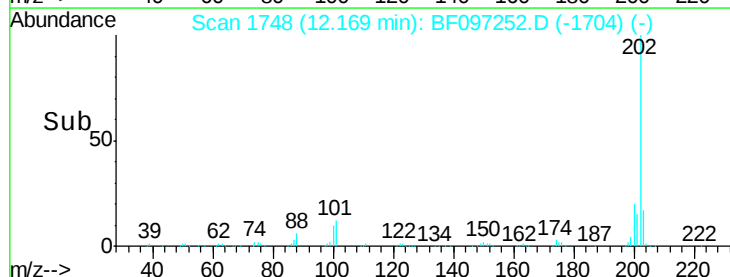
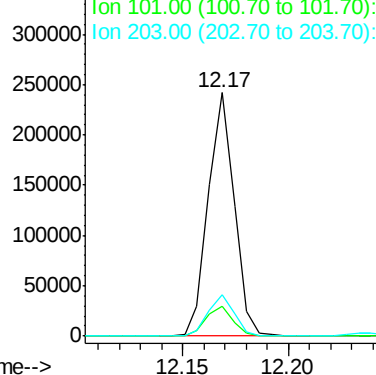


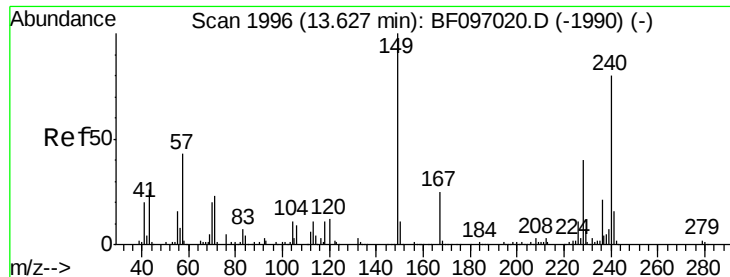
#74
 Fluoranthene
 Concen: 17.78 ng
 RT: 12.17 min Scan# 1748
 Delta R.T. -0.04 min
 Lab File: BF097252.D
 Acq: 2 Aug 2017 4:14

Tgt Ion:202 Resp: 206170
 Ion Ratio Lower Upper
 202 100
 101 12.3 0.0 33.2
 203 16.9 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: 13.59 min Scan# 1989

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

Instrument :

BNA_F

ClientSampleId :

E2-L6-BASE

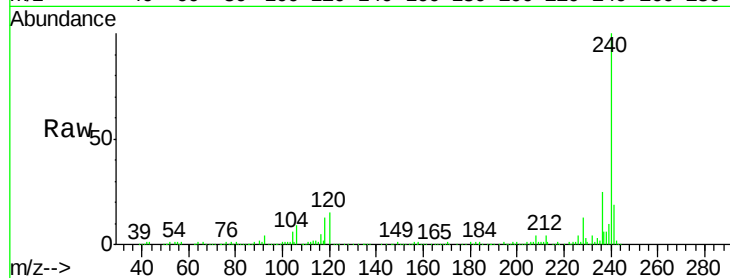
Tot Ion:240 Resp: 223872

Ion Ratio Lower Upper

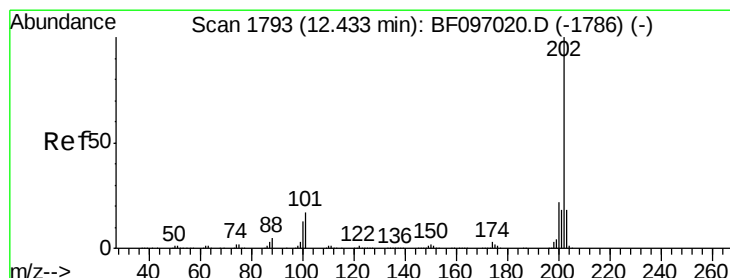
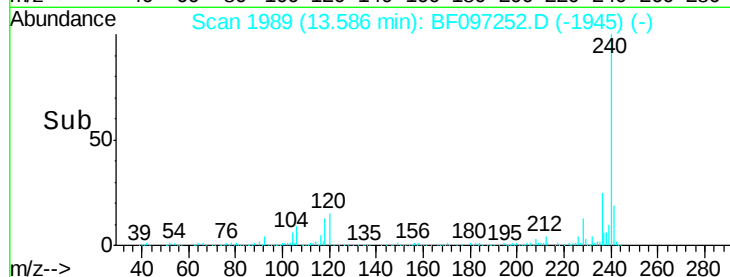
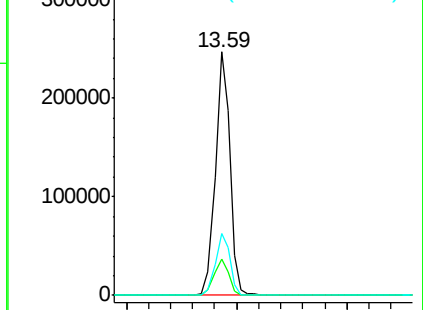
240 100

120 15.0 5.8 8.8#

236 25.4 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: 9.94 ng

RT: 12.39 min Scan# 1786

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

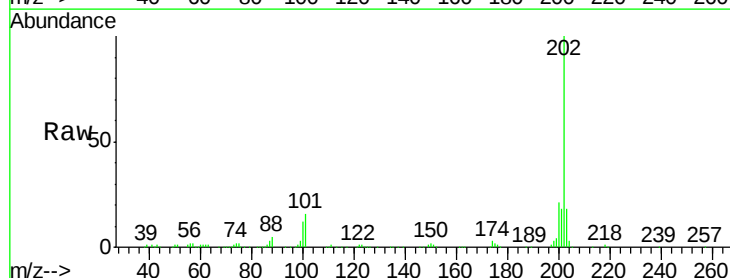
Tgt Ion:202 Resp: 182103

Ion Ratio Lower Upper

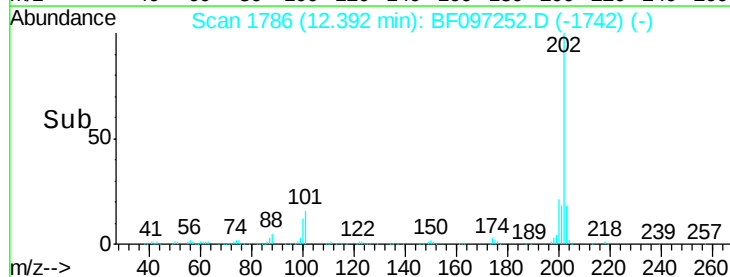
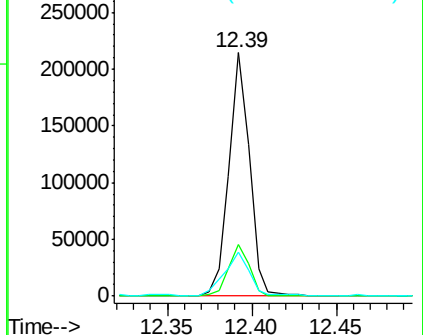
202 100

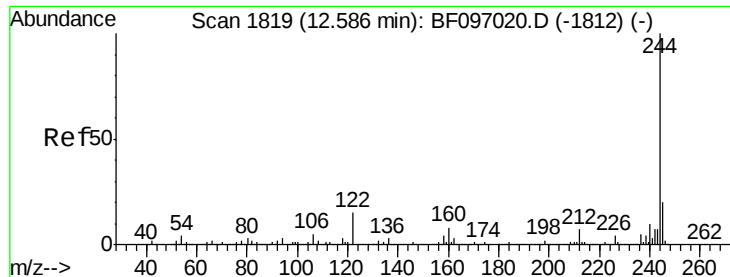
200 21.2 17.6 26.4

203 18.0 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: 23.58 ng

RT: 12.54 min Scan# 1812

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

Instrument :

BNA_F

ClientSampleId :

E2-L6-BASE

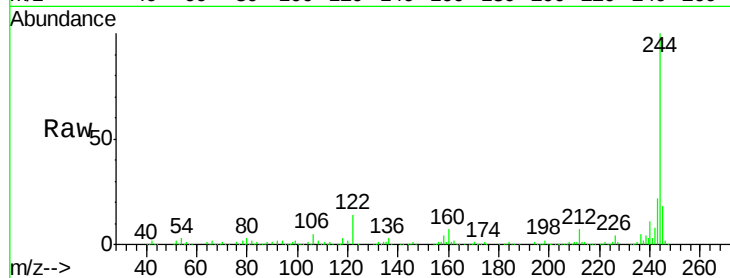
Tot Ion:244 Resp: 258925

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

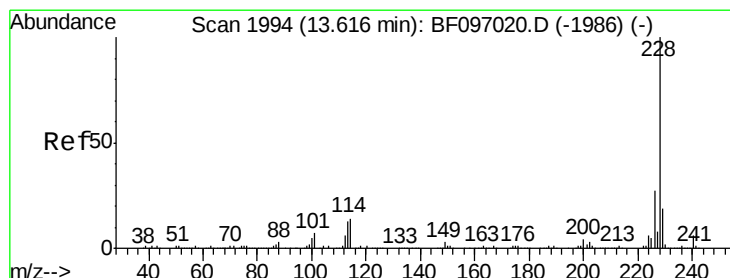
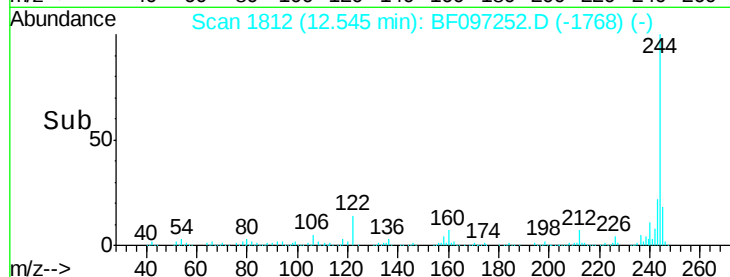
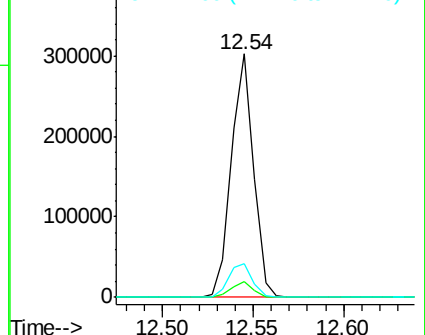
122 13.8 10.3 15.5



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: 6.46 ng

RT: 13.57 min Scan# 1987

Delta R.T. -0.04 min

Lab File: BF097252.D

Acq: 2 Aug 2017 4:14

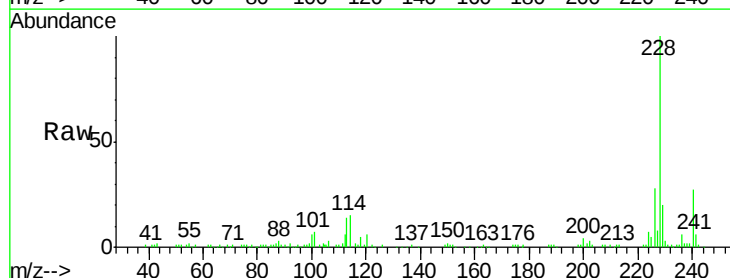
Tgt Ion:228 Resp: 93555

Ion Ratio Lower Upper

228 100

226 28.1 22.6 33.8

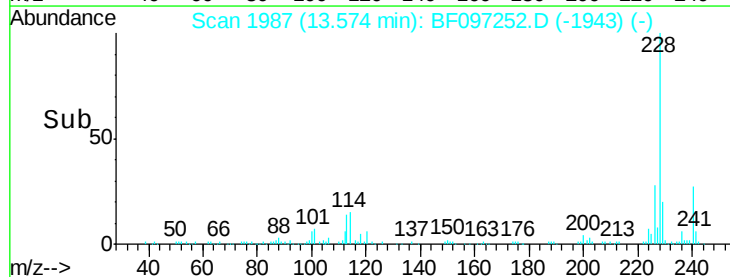
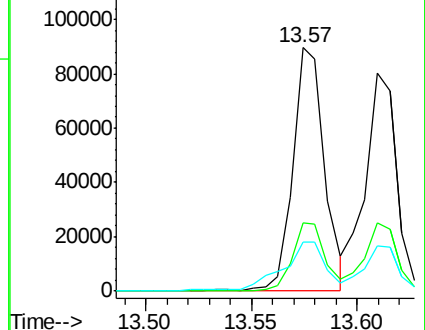
229 20.4 16.3 24.5

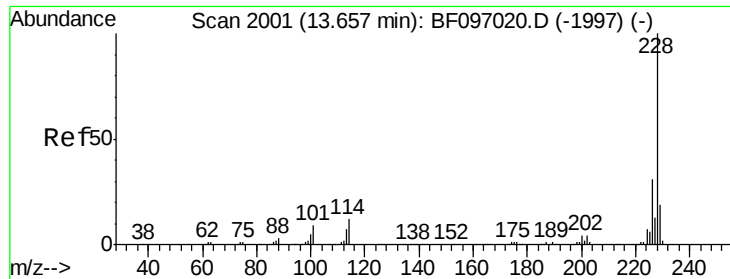


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

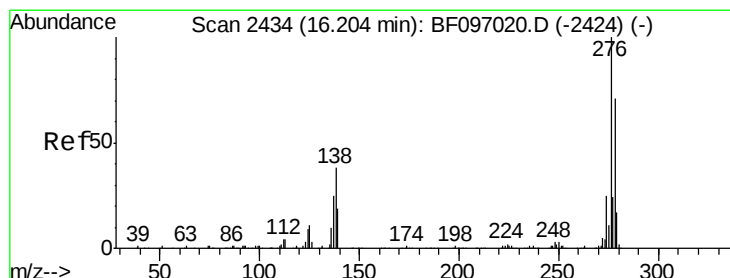
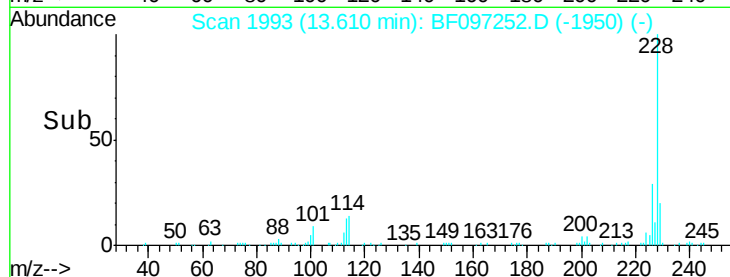
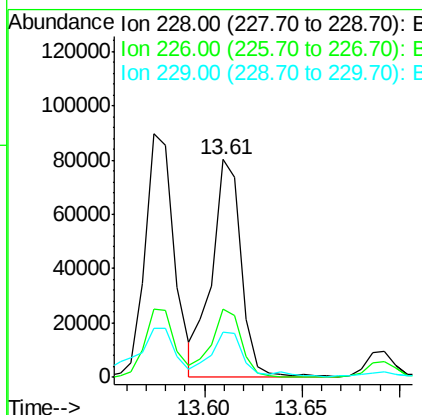
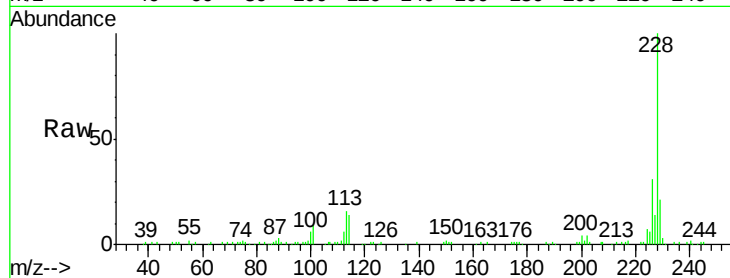




#82
Chrysene
Concen: 5.97 ng
RT: 13.61 min Scan# 1993
Delta R.T. -0.05 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

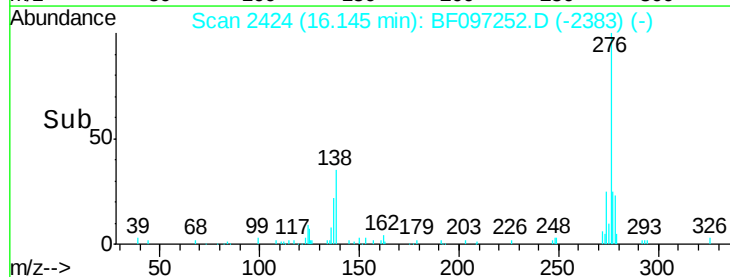
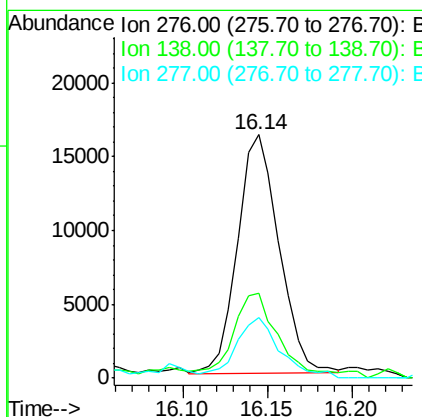
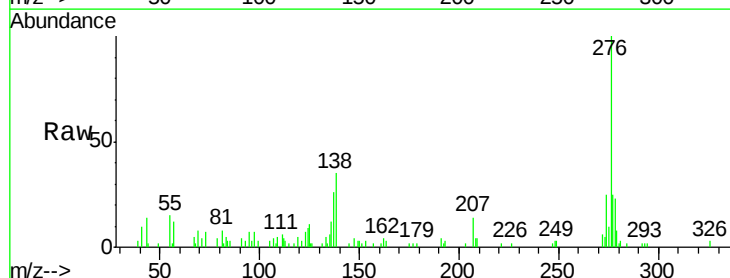
Instrument :
BNA_F
ClientSampleId :
E2-L6-BASE

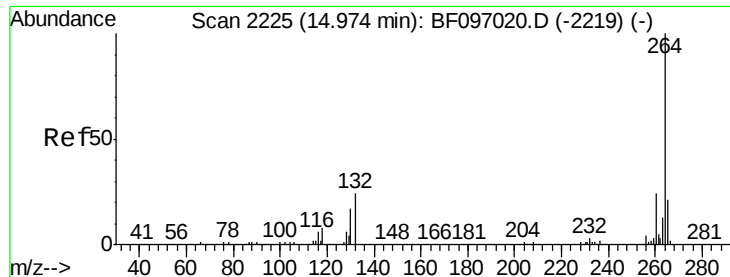
Tot Ion:228 Resp: 84388
Ion Ratio Lower Upper
228 100
226 31.2 24.9 37.3
229 20.6 15.8 23.6



#85
Indeno(1,2,3-cd)pyrene
Concen: 2.27 ng
RT: 16.14 min Scan# 2424
Delta R.T. -0.06 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

Tgt Ion:276 Resp: 27558
Ion Ratio Lower Upper
276 100
138 40.9 27.8 41.6
277 26.9 20.2 30.4

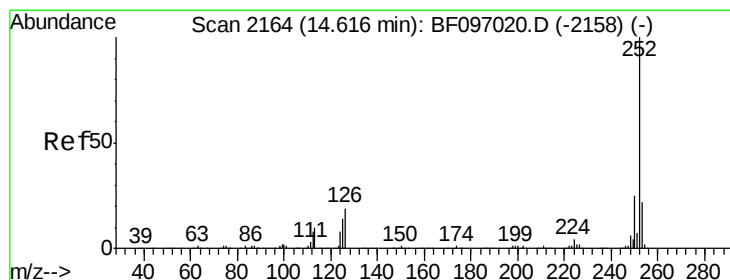
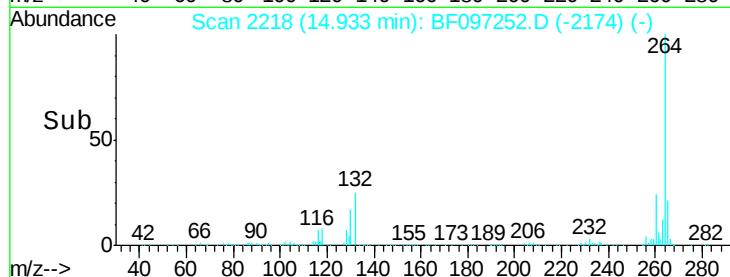
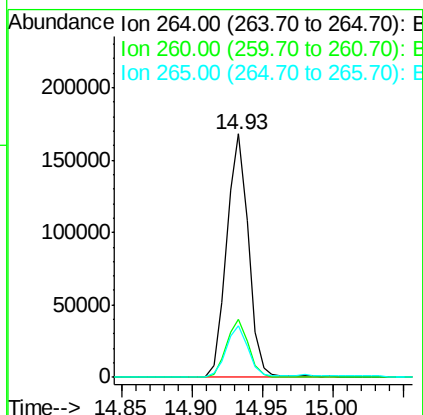
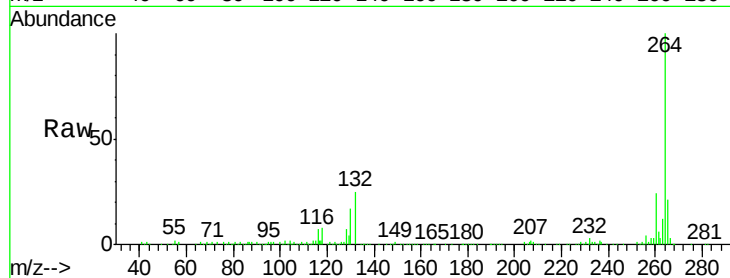




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.93 min Scan# 2218
Delta R.T. -0.04 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

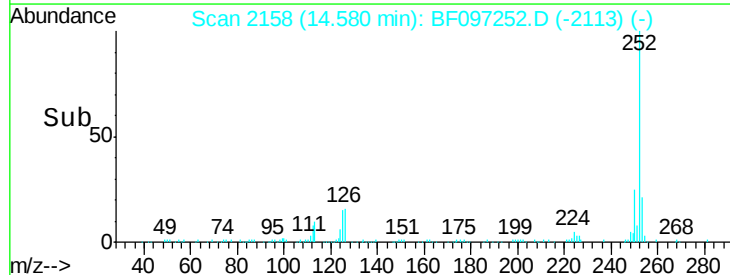
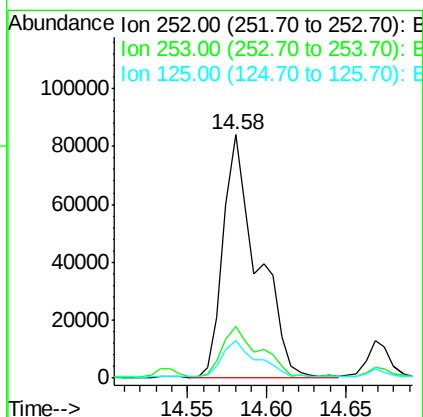
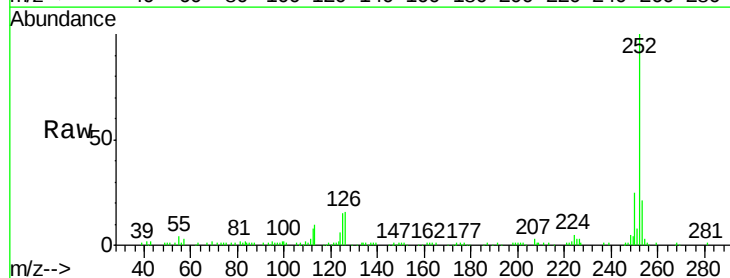
Instrument :
BNA_F
ClientSampleId :
E2-L6-BASE

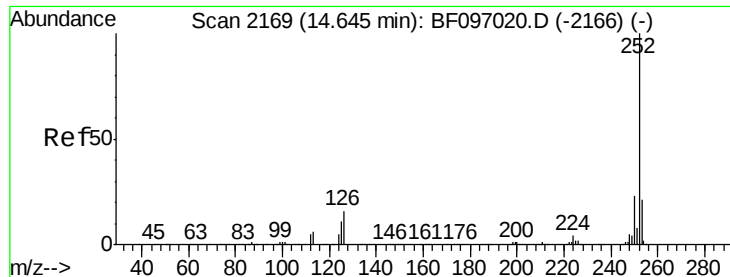
Tot Ion:264 Resp: 181113
Ion Ratio Lower Upper
264 100
260 23.7 19.5 29.3
265 21.1 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 11.77 ng
RT: 14.58 min Scan# 2158
Delta R.T. -0.04 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

Tgt Ion:252 Resp: 128190
Ion Ratio Lower Upper
252 100
253 21.3 18.1 27.1
125 15.5 9.8 14.8#

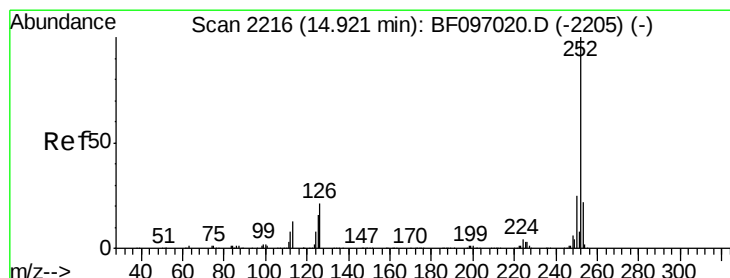
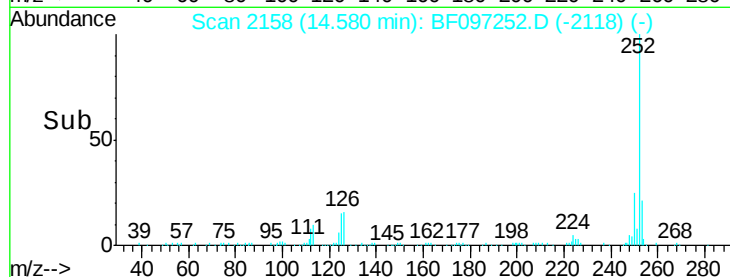
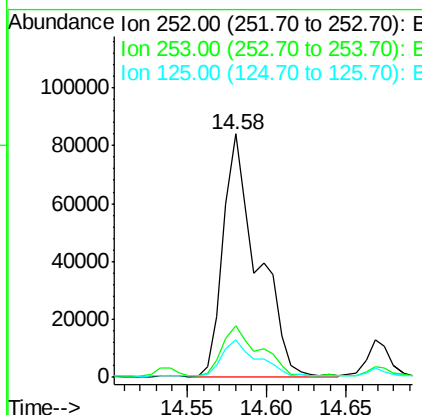
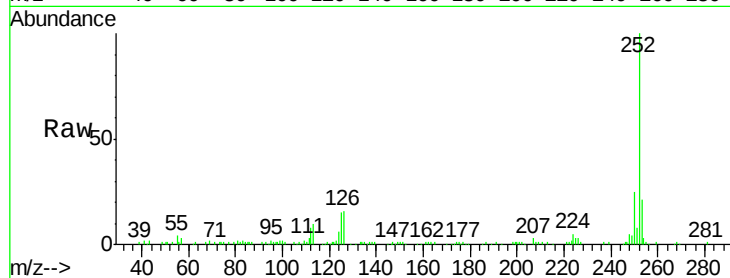




#88
Benzo(k)fluoranthene
Concen: 12.36 ng
RT: 14.58 min Scan# 2158
Delta R.T. -0.06 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

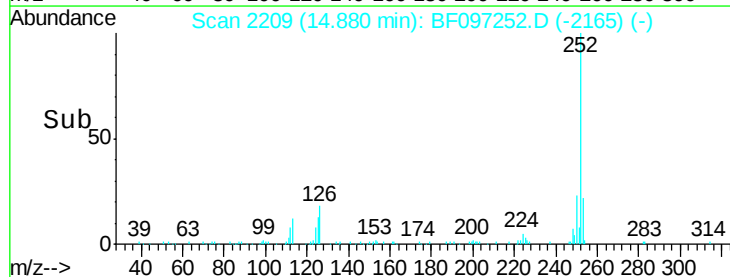
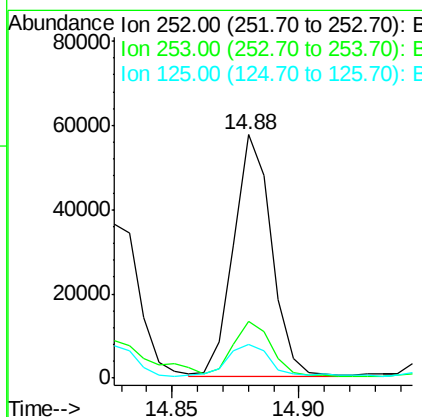
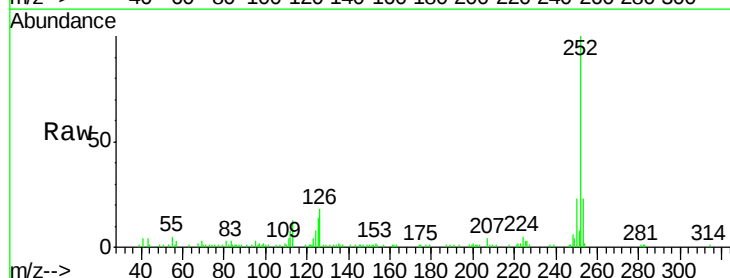
Instrument :
BNA_F
ClientSampled :
E2-L6-BASE

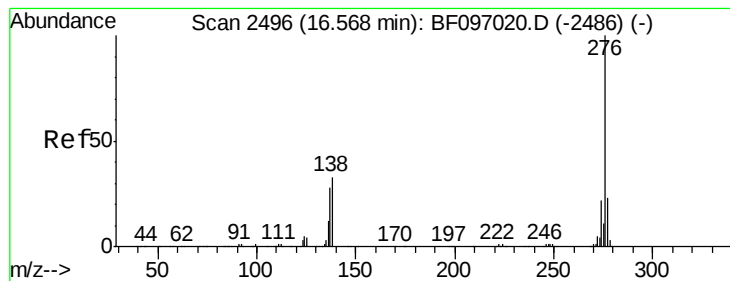
Tot Ion:252 Resp: 128190
Ion Ratio Lower Upper
252 100
253 21.3 18.4 27.6
125 15.5 13.1 19.7



#89
Benzo(a)pyrene
Concen: 6.02 ng
RT: 14.88 min Scan# 2209
Delta R.T. -0.04 min
Lab File: BF097252.D
Acq: 2 Aug 2017 4:14

Tgt Ion:252 Resp: 59948
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 13.9 11.0 16.4





#91
 Benzo(a,h,i)perylene
 Concen: 3.08 ng
 RT: 16.50 min Scan# 2485
 Delta R.T. -0.06 min
 Lab File: BF097252.D
 Acq: 2 Aug 2017 4:14

Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-BASE

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.7	18.6	28.0
138	37.1	25.4	38.0

