

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\
 Data File : BF097333.D
 Acq On : 3 Aug 2017 22:56
 Operator : SJ/JU
 Sample : I4541-05 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11936

Quant Time: Aug 04 01:09:59 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

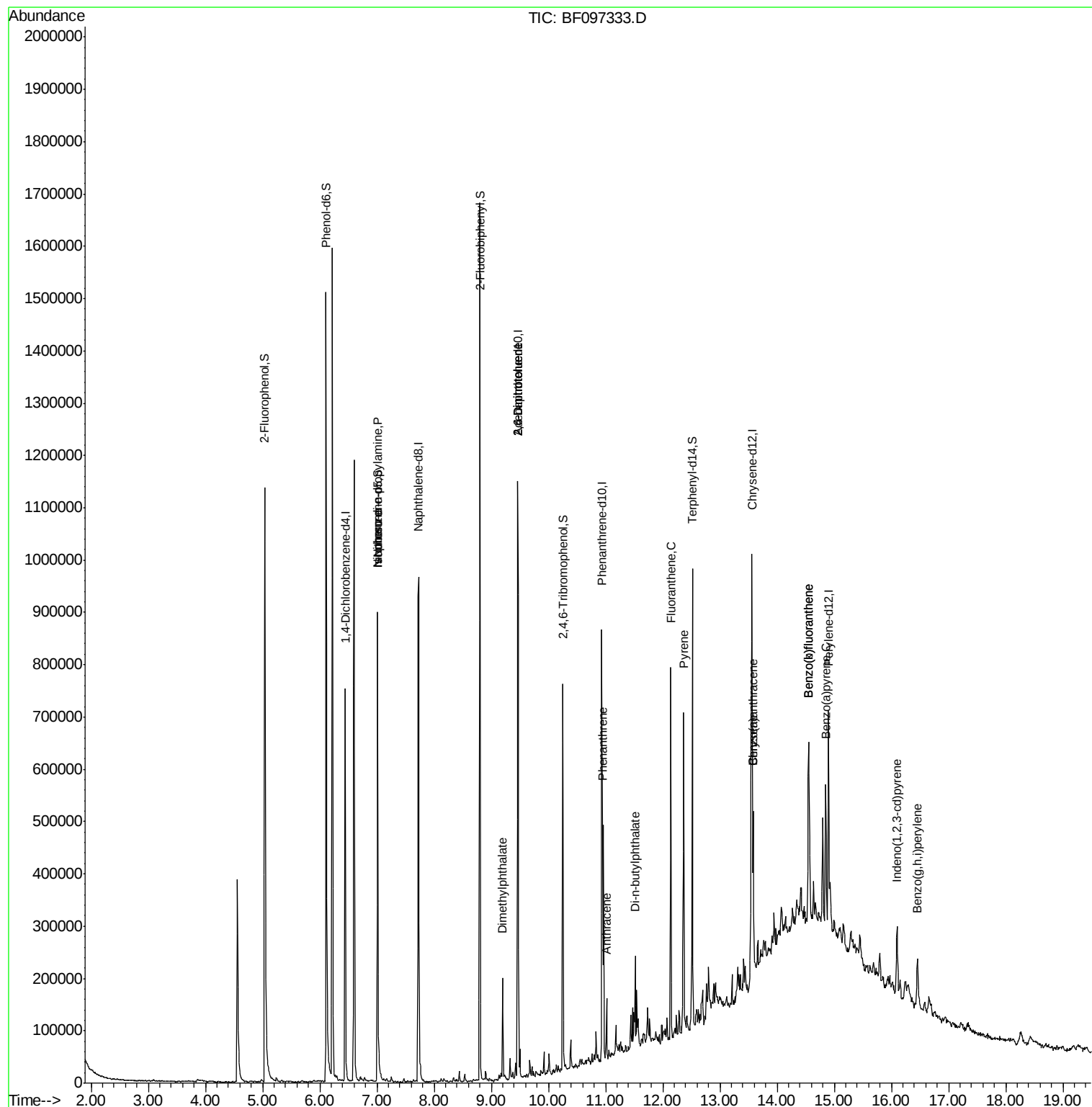
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	122193	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	454217	20.00	ng	-0.06
38) Acenaphthene-d10	9.46	164	212026	20.00	ng	-0.07
63) Phenanthrene-d10	10.94	188	299642	20.00	ng	-0.06
75) Chrysene-d12	13.56	240	220823	20.00	ng	-0.07
86) Perylene-d12	14.90	264	164599	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.03	112	419128	51.71	ng	-0.06
7) Phenol-d6	6.11	99	522014	56.41	ng	-0.06
23) Nitrobenzene-d5	7.01	82	275556	35.59	ng	-0.06
41) 2,4,6-Tribromophenol	10.25	330	76253	45.52	ng	-0.07
44) 2-Fluorobiphenyl	8.80	172	466620	37.35	ng	-0.07
78) Terphenyl-d14	12.52	244	244140	22.54	ng	-0.07
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.01	70	35526	5.833	ng	Qvalue # 82
25) Isophorone	7.01	82	270743	17.855	ng	# 67
49) Dimethylphthalate	9.20	163	72536	4.505	ng	98
50) 2,6-Dinitrotoluene	9.46	165	27371	8.015	ng	# 34
56) 2,4-Dinitrotoluene	9.46	165	27371	6.972	ng	# 33
70) Phenanthrene	10.96	178	169384	10.550	ng	97
71) Anthracene	11.02	178	44195	2.688	ng	98
73) Di-n-butylphthalate	11.52	149	58183	2.911	ng	99
74) Fluoranthene	12.14	202	256528	16.310	ng	98
77) Pyrene	12.36	202	238903	13.215	ng	100
80) Benzo(a)anthracene	13.59	228	128321	8.981	ng	96
82) Chrysene	13.59	228	128321	9.197	ng	97
85) Indeno(1,2,3-cd)pyrene	16.10	276	64014	5.351	ng	95
87) Benzo(b)fluoranthene	14.55	252	203585	20.576	ng	# 96
88) Benzo(k)fluoranthene	14.55	252	203585	21.593	ng	97
89) Benzo(a)pyrene	14.85	252	109064	12.044	ng	96
91) Benzo(a,h,i)perylene	16.46	276	63829	8.196	ng	96

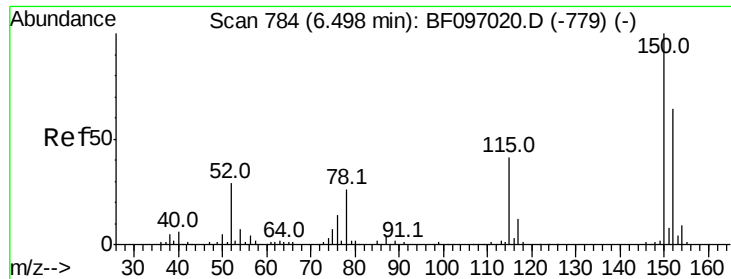
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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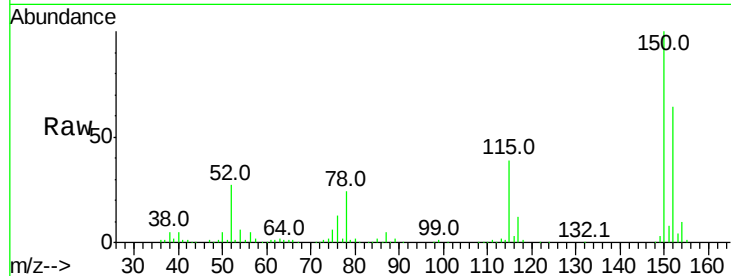


#1

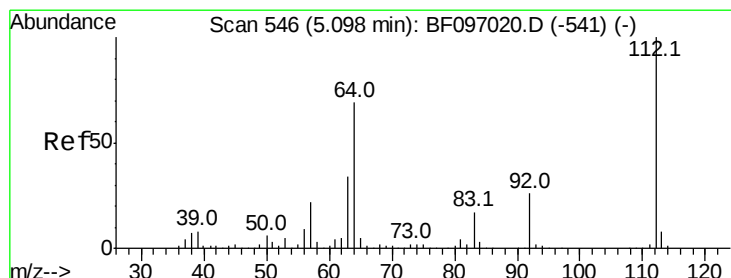
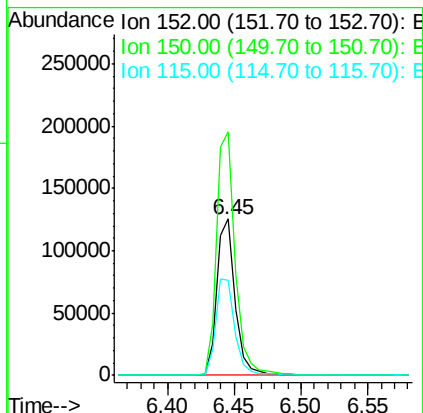
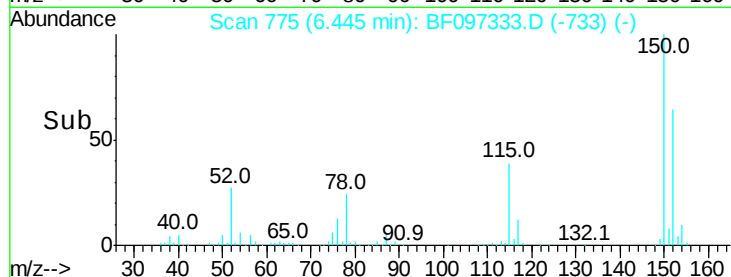
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.45 min Scan# 775
Delta R.T. -0.05 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

Instrument :
BNA_F
ClientSampleId :
72-11936

Tot Ion:152 Resp: 122193
Ion Ratio Lower Upper
152 100
150 155.5 126.2 189.2
115 61.0 52.2 78.2



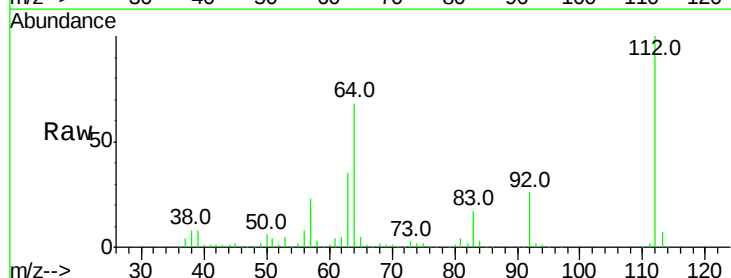
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



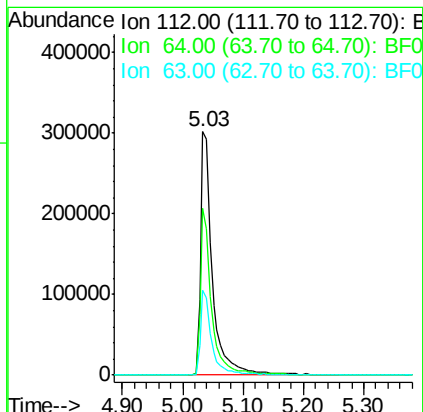
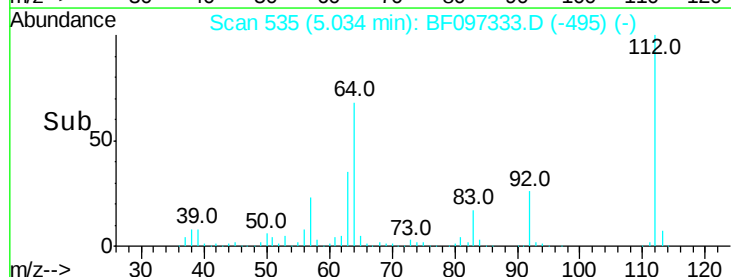
#5

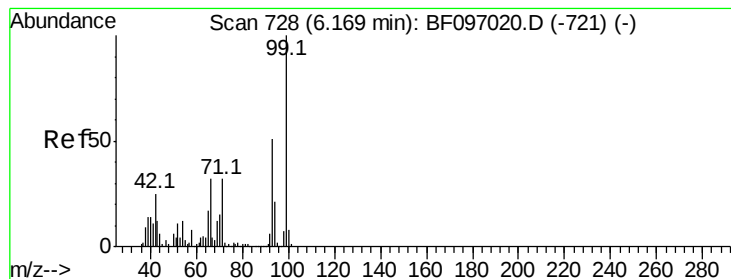
2-Fluorophenol
Concen: 51.708 ng
RT: 5.03 min Scan# 535
Delta R.T. -0.06 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

Tgt Ion:112 Resp: 419128
Ion Ratio Lower Upper
112 100
64 68.3 46.0 69.0
63 35.0 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: 56.412 ng

RT: 6.11 min Scan# 718

Delta R.T. -0.06 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Instrument :

BNA_F

ClientSampleId :

72-11936

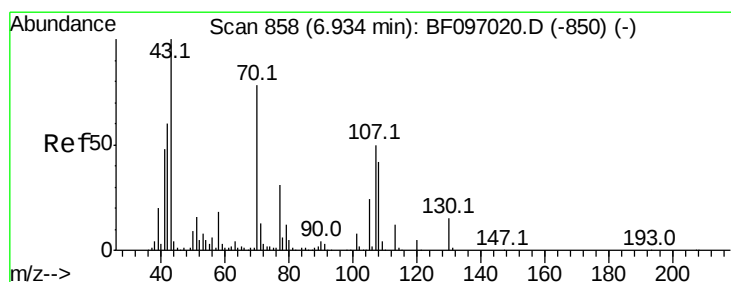
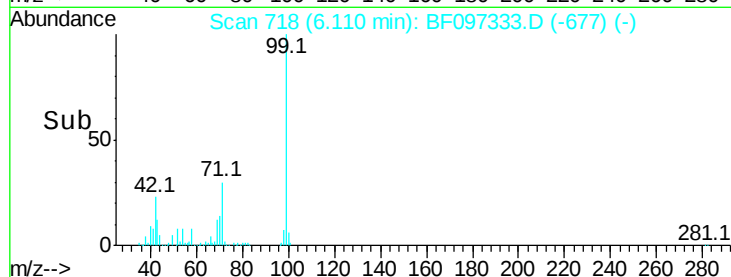
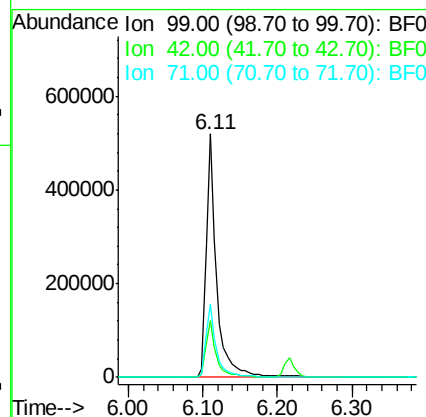
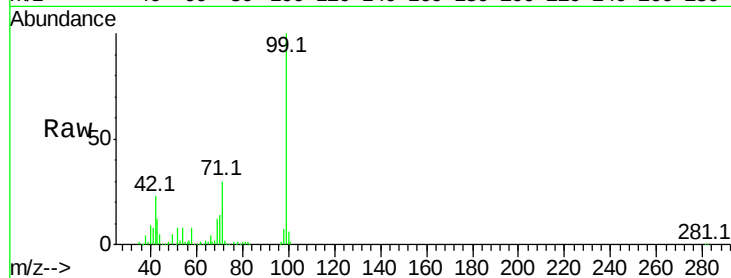
Tot Ion: 99 Resp: 522014

Ion Ratio Lower Upper

99 100

42 23.2 13.5 20.3#

71 30.2 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 5.833 ng

RT: 7.01 min Scan# 871

Delta R.T. 0.08 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Tgt Ion: 70 Resp: 35526

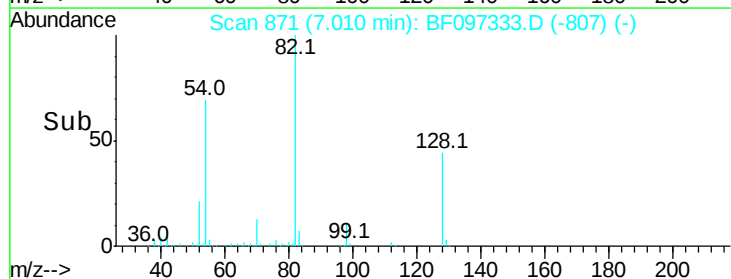
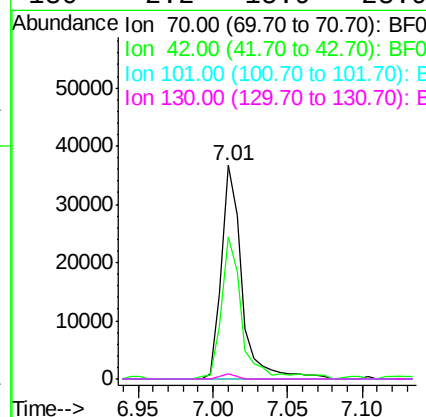
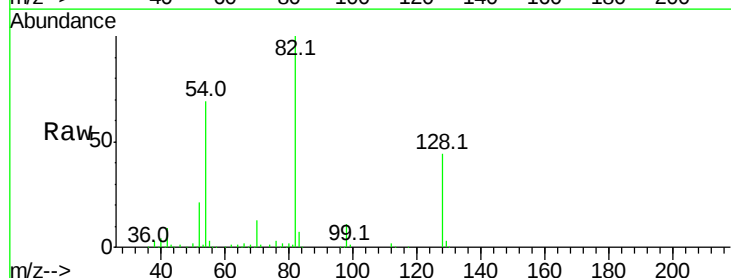
Ion Ratio Lower Upper

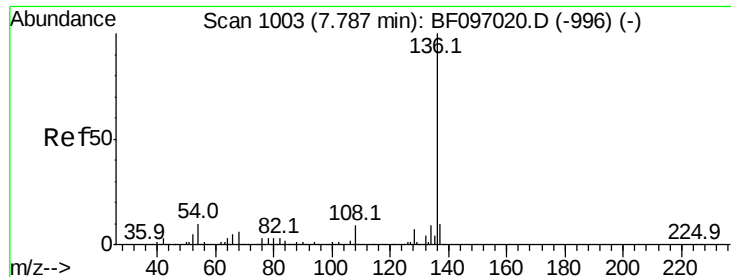
70 100

42 66.6 47.2 70.8

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.73 min Scan# 993

Delta R.T. -0.06 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Instrument :

BNA_F

ClientSampleId :

72-11936

Tot Ion:136 Resp: 454217

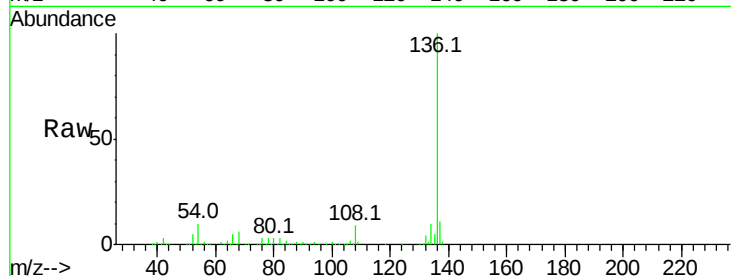
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 9.7 4.9 7.3#

68 5.6 4.1 6.1

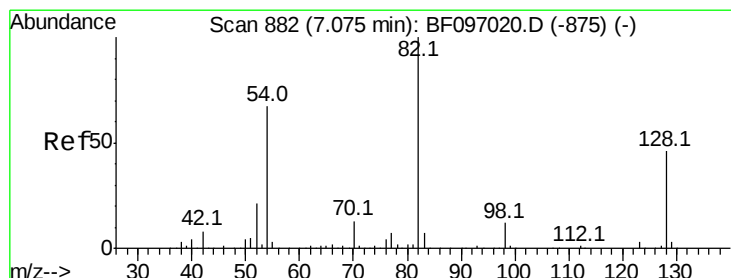
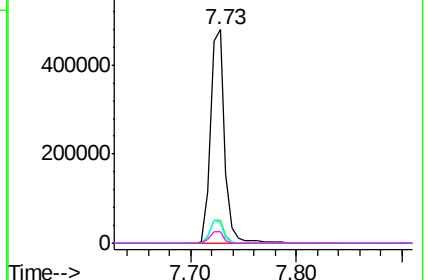
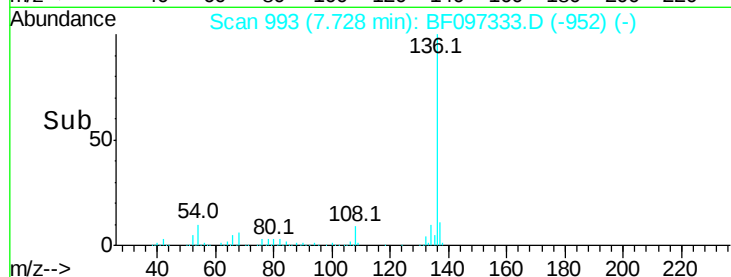


Abundance Ion 136.00 (135.70 to 136.70): E

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: 35.589 ng

RT: 7.01 min Scan# 871

Delta R.T. -0.06 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

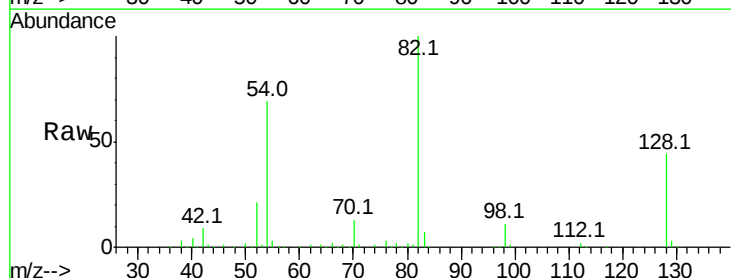
Tgt Ion: 82 Resp: 275556

Ion Ratio Lower Upper

82 100

128 44.4 34.0 51.0

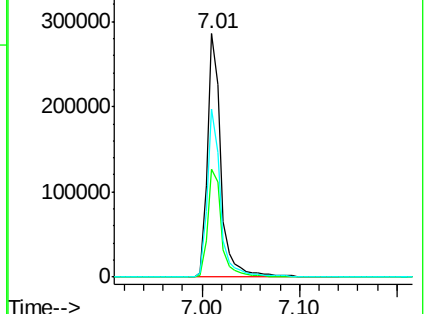
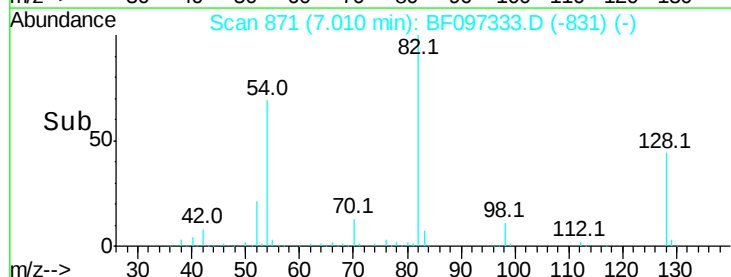
54 69.0 42.2 63.2#

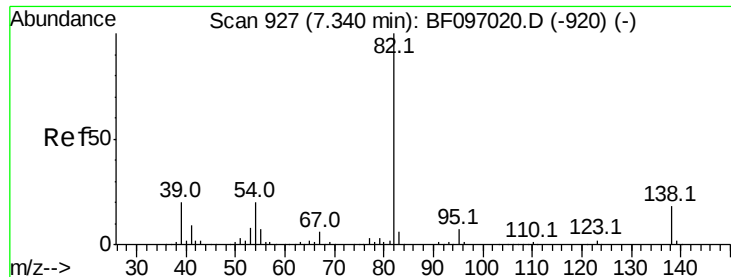


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 17.855 ng

RT: 7.01 min Scan# 871

Delta R.T. -0.33 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Instrument :

BNA_F

ClientSampleId :

72-11936

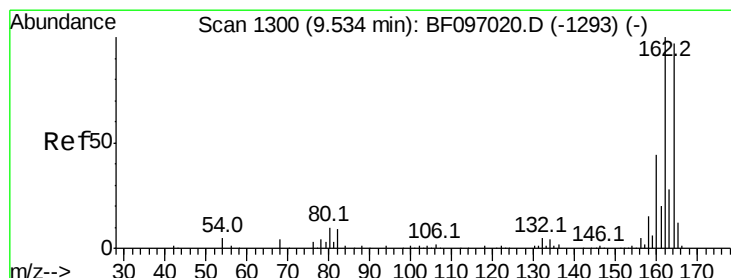
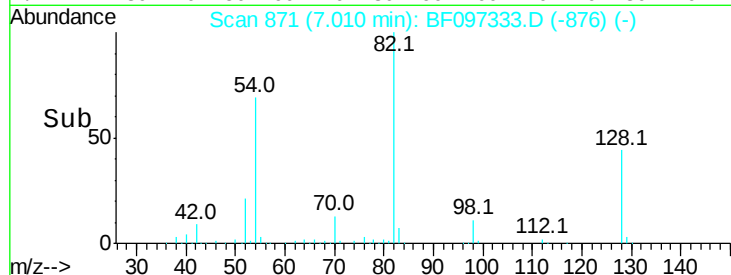
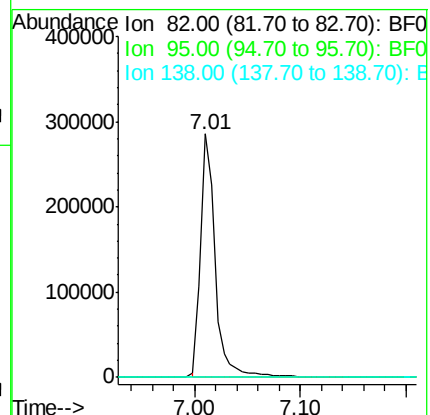
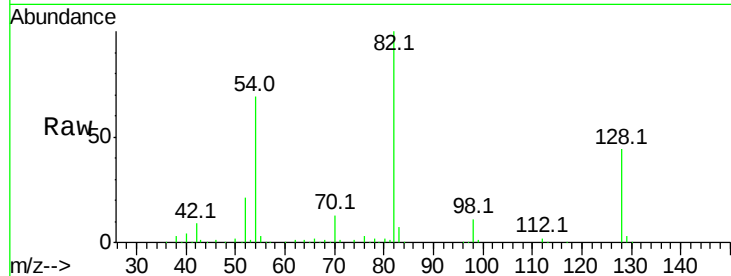
Tot Ion: 82 Resp: 270743

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.46 min Scan# 1288

Delta R.T. -0.07 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

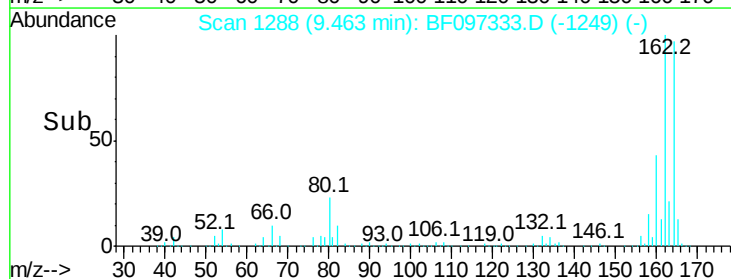
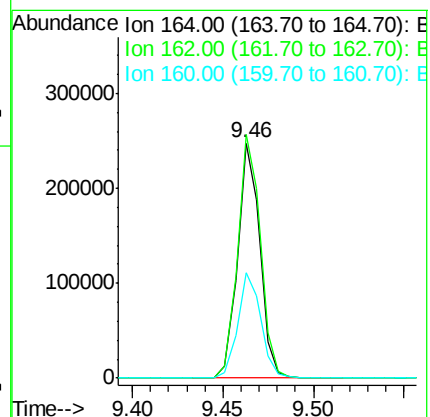
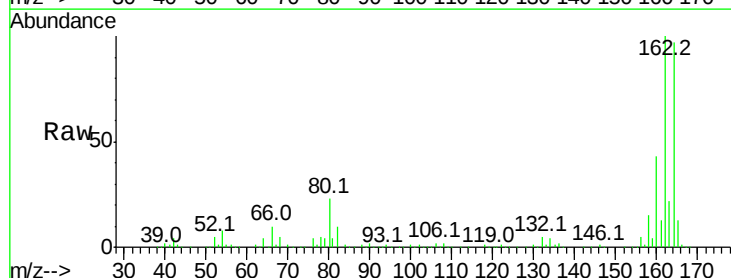
Tgt Ion:164 Resp: 212026

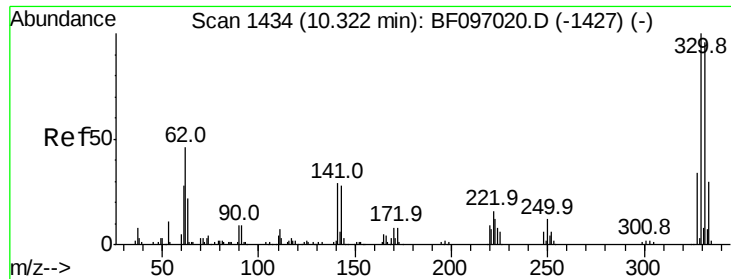
Ion Ratio Lower Upper

164 100

162 103.6 82.6 123.8

160 44.9 36.2 54.2

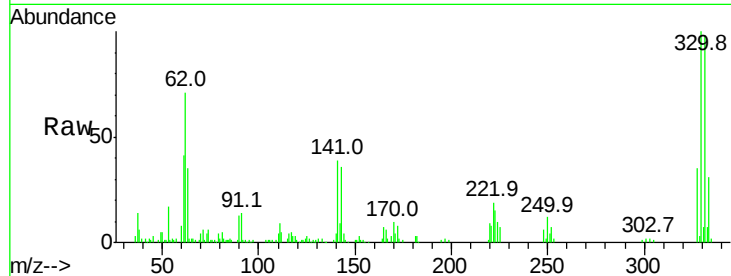




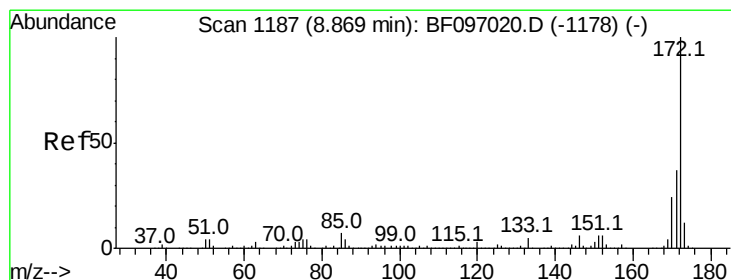
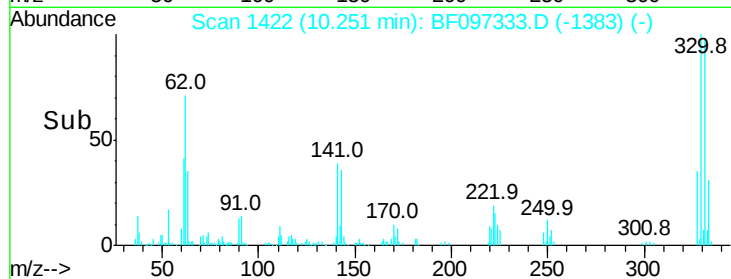
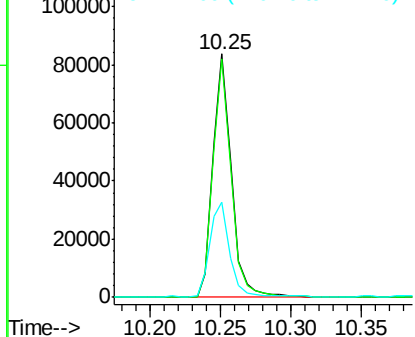
#41
 2,4,6-Tribromophenol
 Concen: 45.518 ng
 RT: 10.25 min Scan# 1422
 Delta R.T. -0.07 min
 Lab File: BF097333.D
 Acq: 3 Aug 2017 22:56

Instrument :
 BNA_F
 ClientSampleId :
 72-11936

Tot Ion:330 Resp: 76253
 Ion Ratio Lower Upper
 330 100
 332 97.6 76.6 115.0
 141 43.8 31.4 47.2

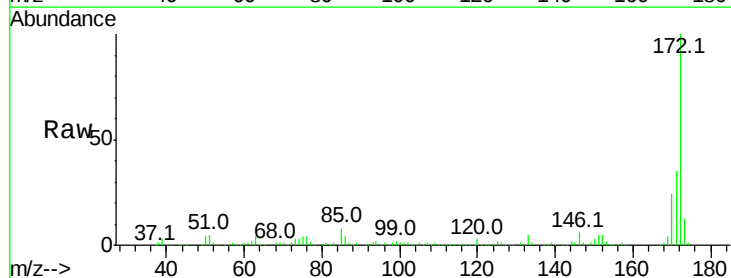


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

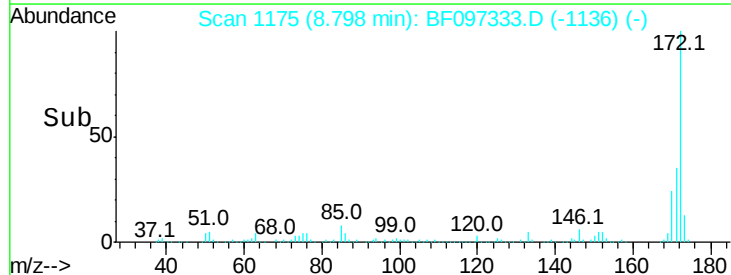
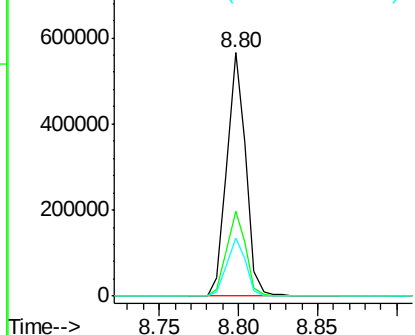


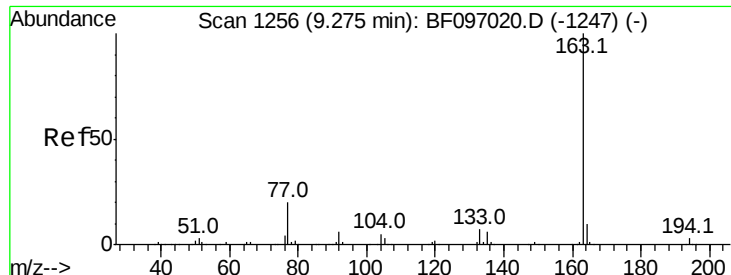
#44
 2-Fluorobiphenyl
 Concen: 37.349 ng
 RT: 8.80 min Scan# 1175
 Delta R.T. -0.07 min
 Lab File: BF097333.D
 Acq: 3 Aug 2017 22:56

Tgt Ion:172 Resp: 466620
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.6 44.4
 170 23.9 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

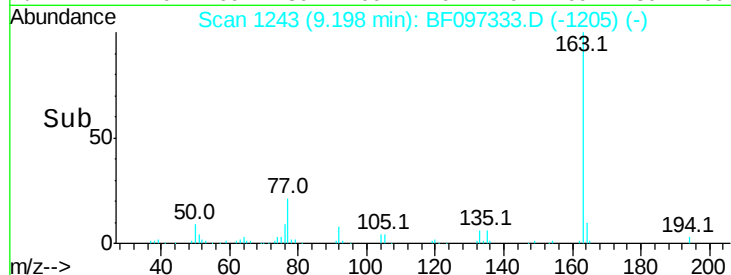
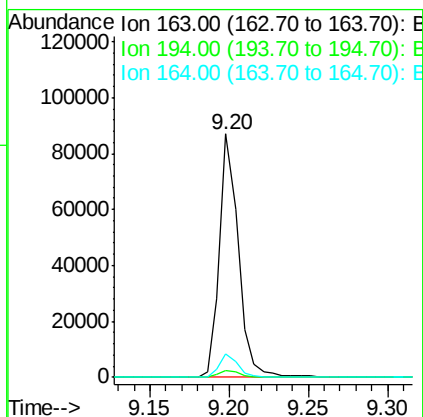
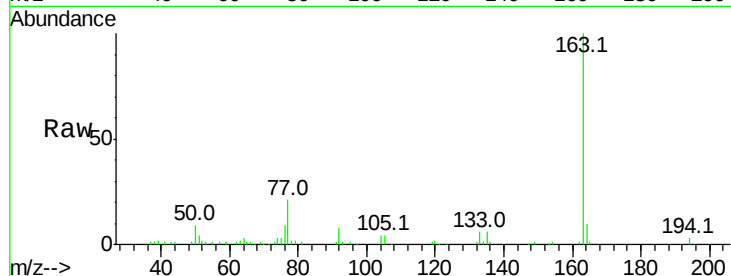




#49
Dimethylphthalate
Concen: 4.505 ng
RT: 9.20 min Scan# 1243
Delta R.T. -0.08 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

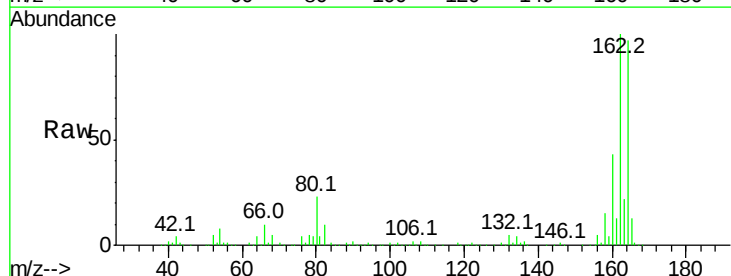
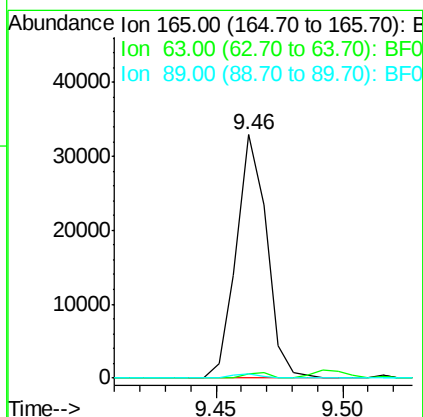
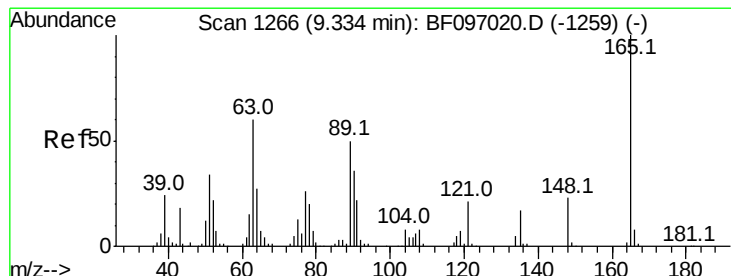
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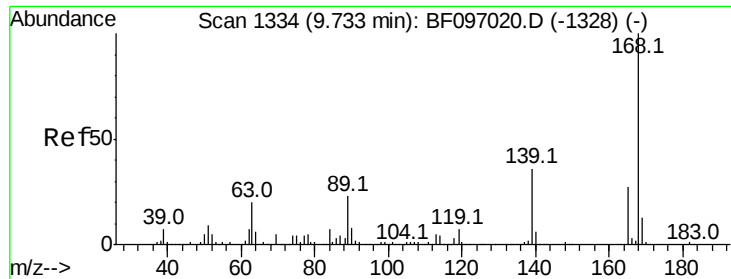
Tot Ion:163 Resp: 72536
Ion Ratio Lower Upper
163 100
194 3.1 2.6 4.0
164 9.8 8.4 12.6



#50
2,6-Dinitrotoluene
Concen: 8.015 ng
RT: 9.46 min Scan# 1288
Delta R.T. 0.13 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

Tgt Ion:165 Resp: 27371
Ion Ratio Lower Upper
165 100
63 1.7 34.3 51.5#
89 1.8 37.1 55.7#





#56

2,4-Dinitrotoluene

Concen: 6.972 ng

RT: 9.46 min Scan# 1288

Delta R.T. -0.27 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Instrument :

BNA_F

ClientSampleId :

72-11936

Tot Ion:165 Resp: 27371

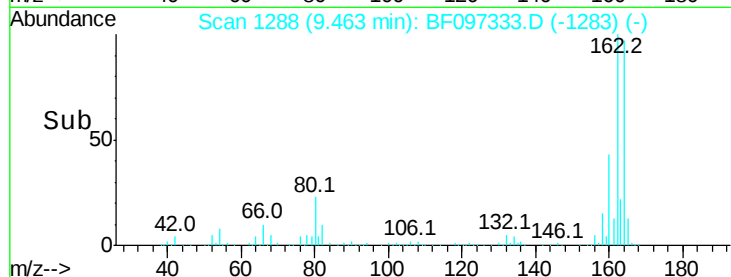
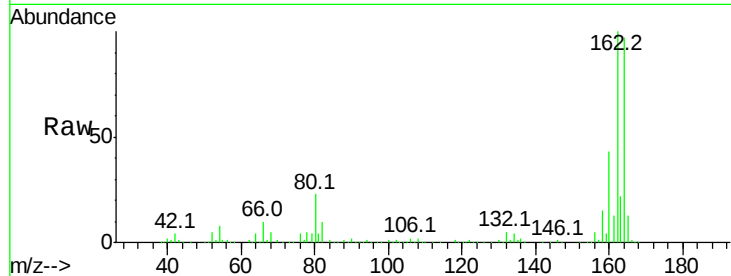
Ion Ratio Lower Upper

165 100

63 1.7 25.4 38.0#

89 1.8 46.4 69.6#

182 0.0 1.8 2.6#

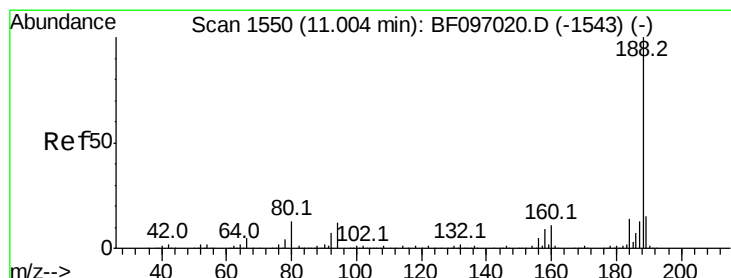
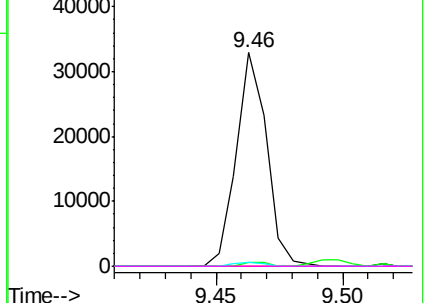


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 10.94 min Scan# 1539

Delta R.T. -0.06 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

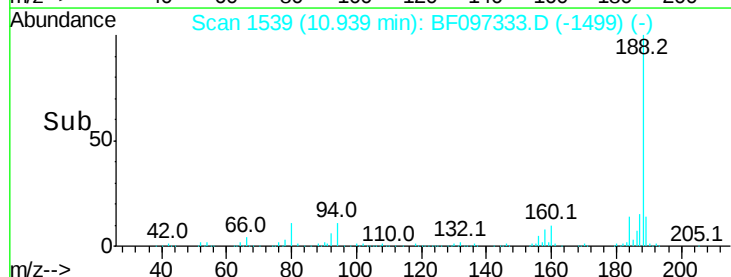
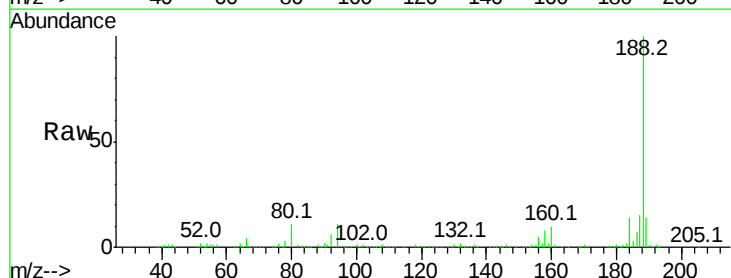
Tgt Ion:188 Resp: 299642

Ion Ratio Lower Upper

188 100

94 10.7 9.4 14.2

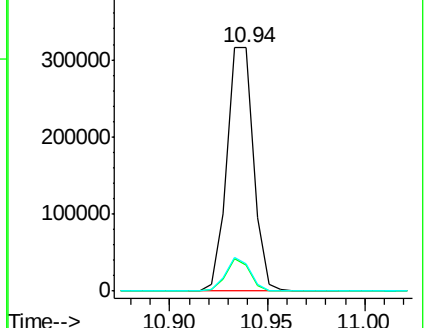
80 11.0 10.2 15.2

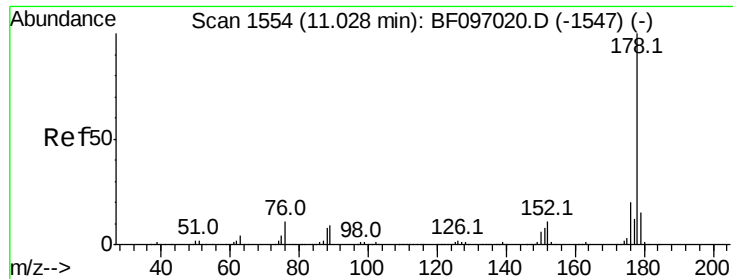


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

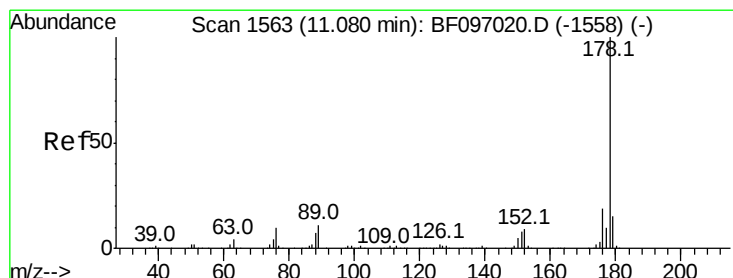
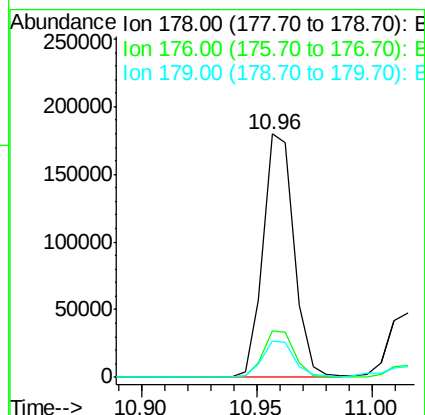
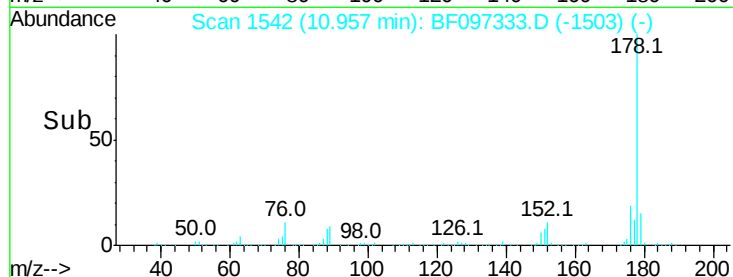
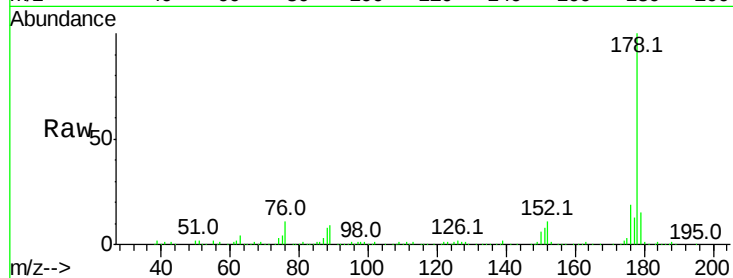




#70
Phenanthrene
Concen: 10.550 ng
RT: 10.96 min Scan# 1542
Delta R.T. -0.07 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

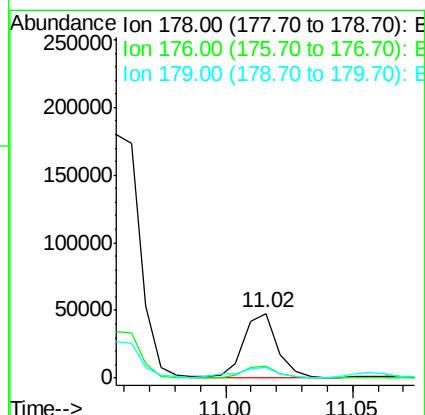
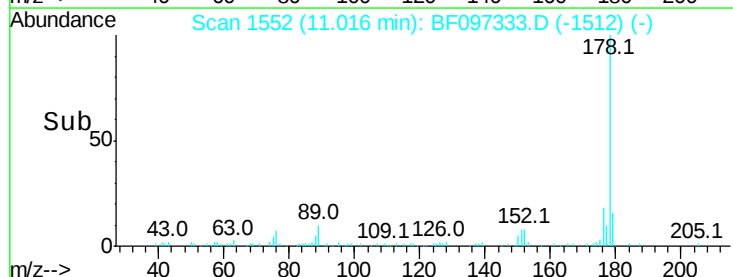
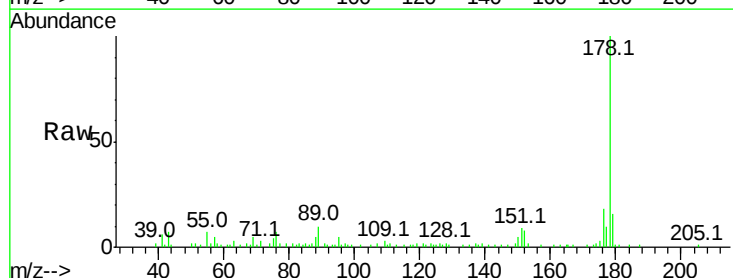
Instrument :
BNA_F
ClientSampleId :
72-11936

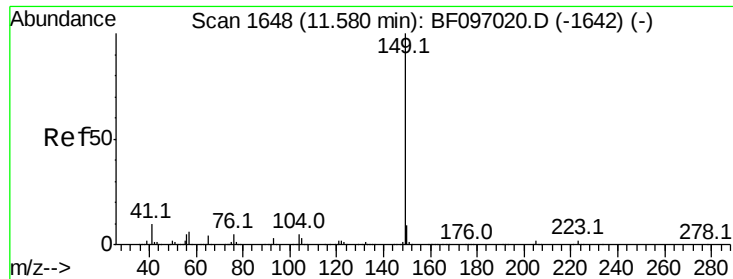
Tot Ion:178 Resp: 169384
Ion Ratio Lower Upper
178 100
176 18.9 16.2 24.4
179 15.0 12.6 19.0



#71
Anthracene
Concen: 2.688 ng
RT: 11.02 min Scan# 1552
Delta R.T. -0.06 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

Tgt Ion:178 Resp: 44195
Ion Ratio Lower Upper
178 100
176 18.4 15.8 23.8
179 15.8 12.7 19.1





#73

Di-n-butylphthalate

Concen: 2.911 ng

RT: 11.52 min Scan# 1637

Delta R.T. -0.06 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Instrument :

BNA_F

ClientSampleId :

72-11936

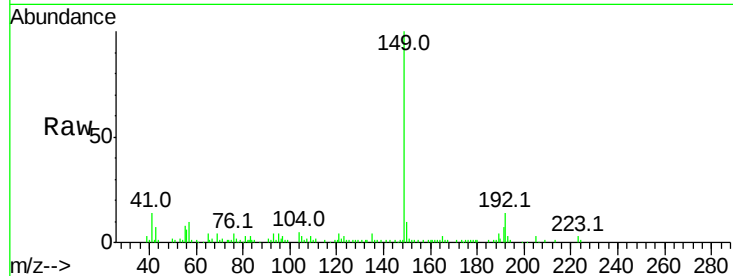
Tot Ion:149 Resp: 58183

Ion Ratio Lower Upper

149 100

150 9.9 7.7 11.5

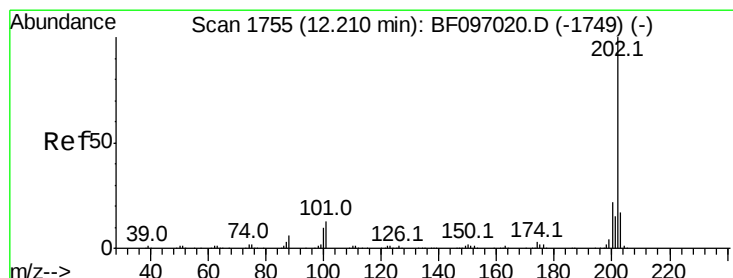
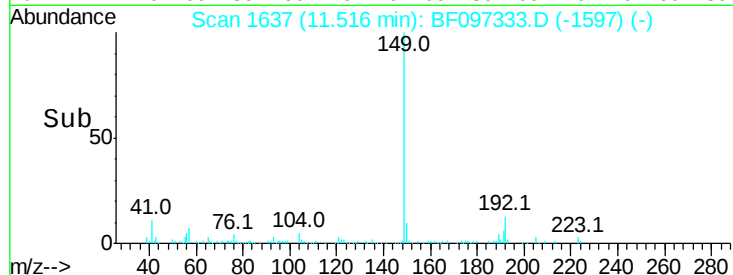
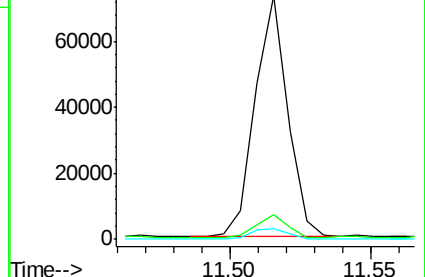
104 4.6 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 16.310 ng

RT: 12.14 min Scan# 1743

Delta R.T. -0.07 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

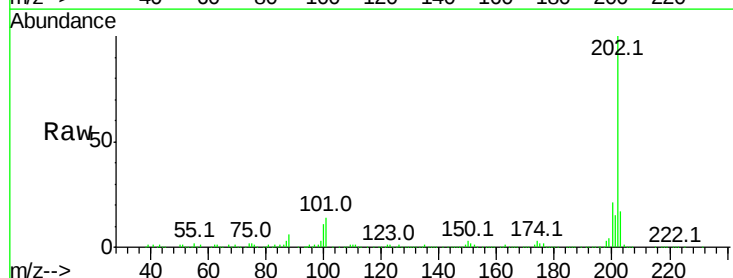
Tgt Ion:202 Resp: 256528

Ion Ratio Lower Upper

202 100

101 13.9 0.0 33.2

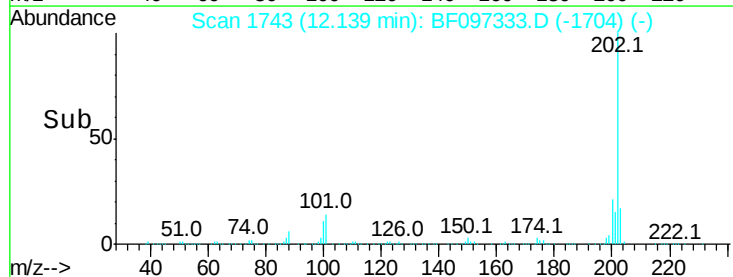
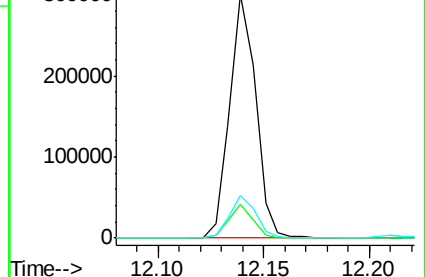
203 17.5 0.0 38.1

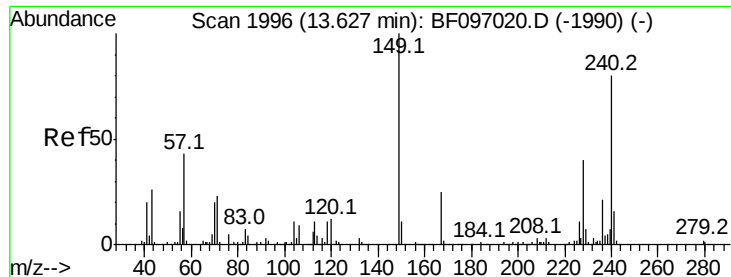


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.56 min Scan# 1984

Delta R.T. -0.07 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Instrument :

BNA_F

ClientSampleId :

72-11936

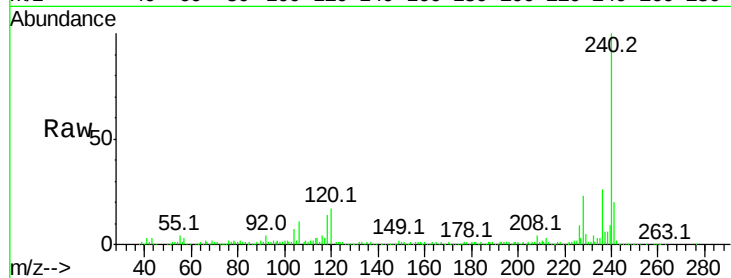
Tot Ion:240 Resp: 220823

Ion Ratio Lower Upper

240 100

120 17.1 5.8 8.8#

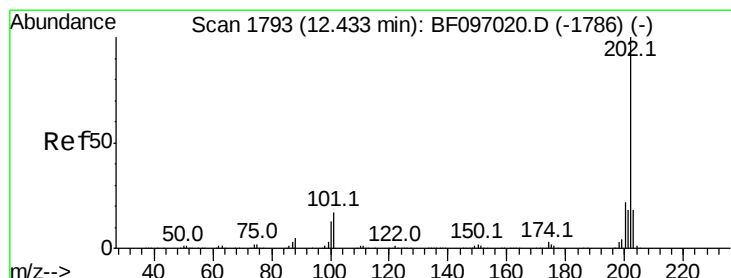
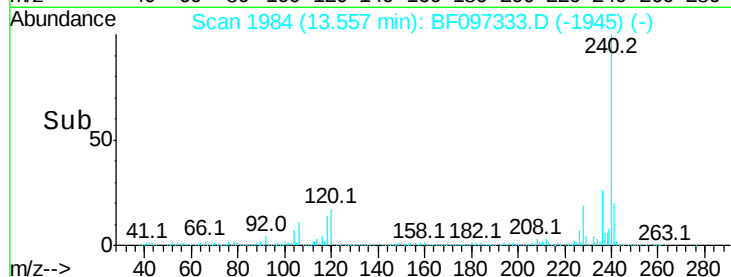
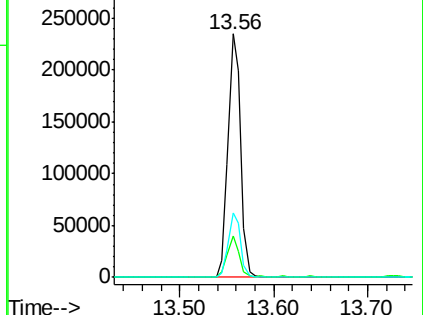
236 26.3 20.5 30.7



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: 13.215 ng

RT: 12.36 min Scan# 1781

Delta R.T. -0.07 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

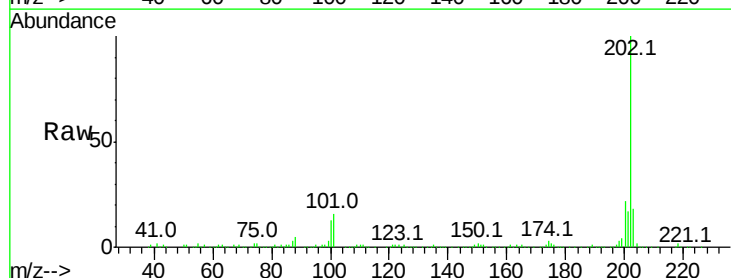
Tgt Ion:202 Resp: 238903

Ion Ratio Lower Upper

202 100

200 22.1 17.6 26.4

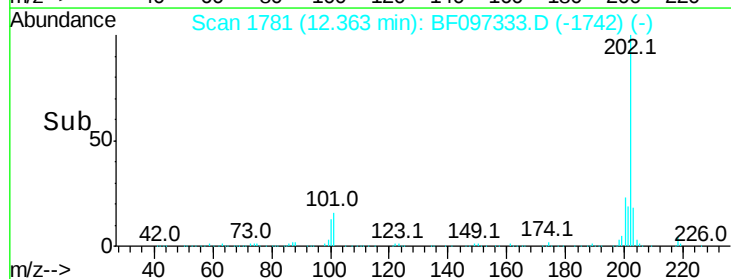
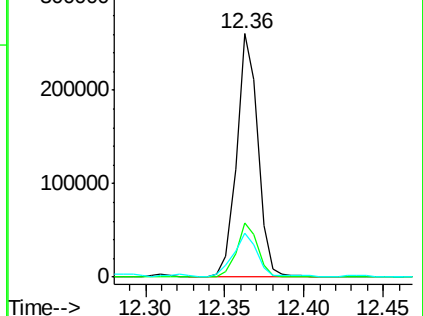
203 18.2 14.4 21.6

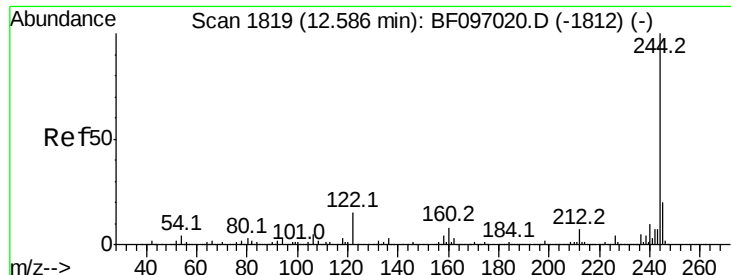


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 22.541 ng

RT: 12.52 min Scan# 1807

Delta R.T. -0.07 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Instrument :

BNA_F

ClientSampleId :

72-11936

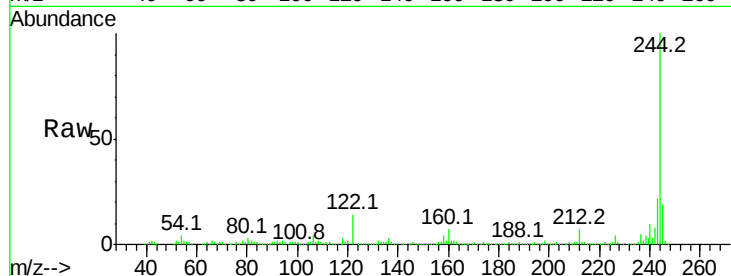
Tot Ion:244 Resp: 244140

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

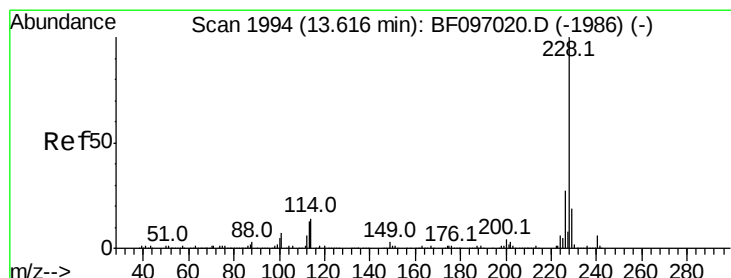
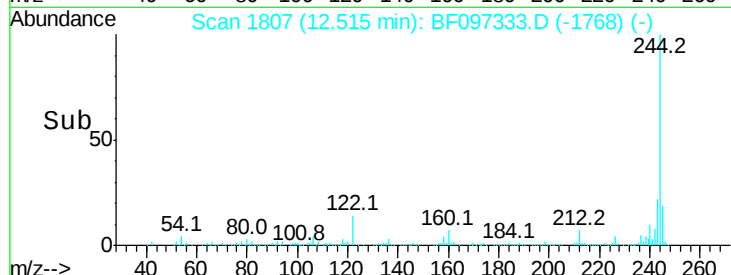
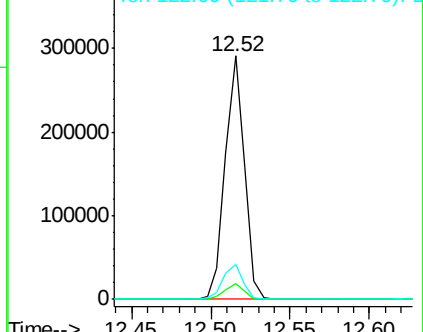
122 14.4 10.3 15.5



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: 8.981 ng

RT: 13.59 min Scan# 1989

Delta R.T. -0.03 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

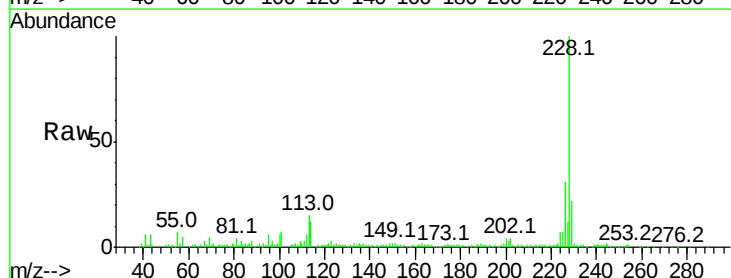
Tgt Ion:228 Resp: 128321

Ion Ratio Lower Upper

228 100

226 30.6 22.6 33.8

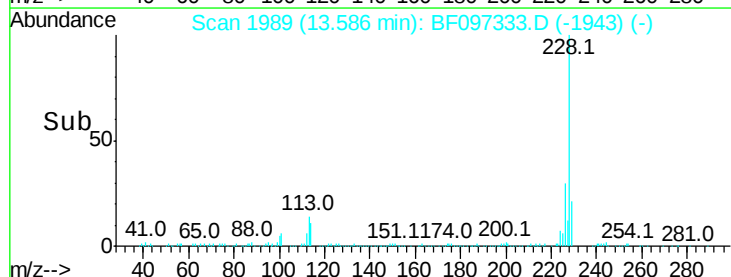
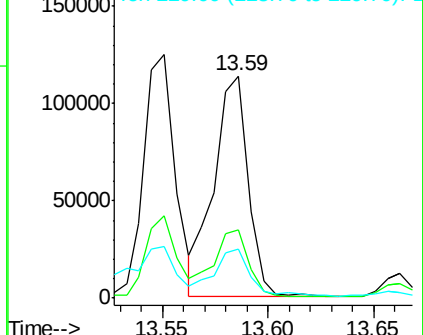
229 22.1 16.3 24.5

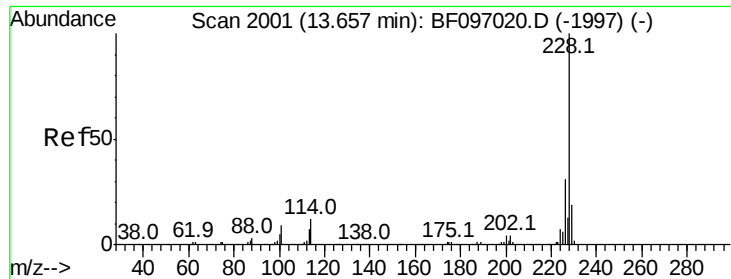


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.197 ng

RT: 13.59 min Scan# 1989

Delta R.T. -0.07 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Instrument :

BNA_F

ClientSampleId :

72-11936

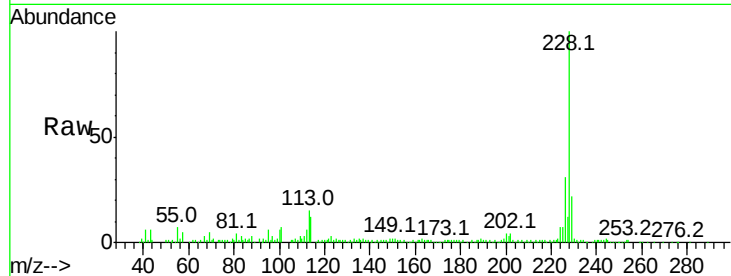
Tot Ion:228 Resp: 128321

Ion Ratio Lower Upper

228 100

226 30.6 24.9 37.3

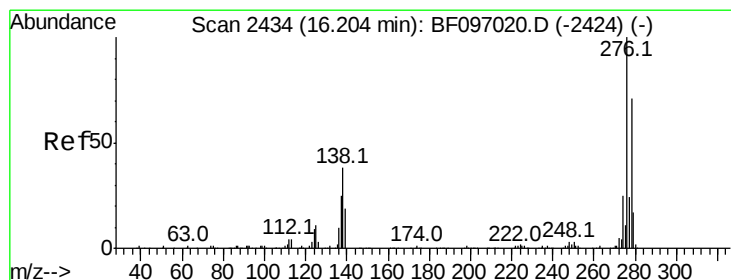
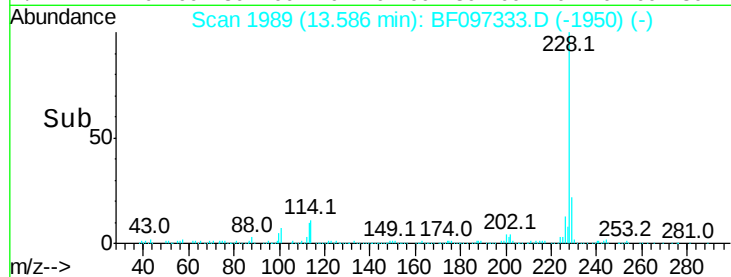
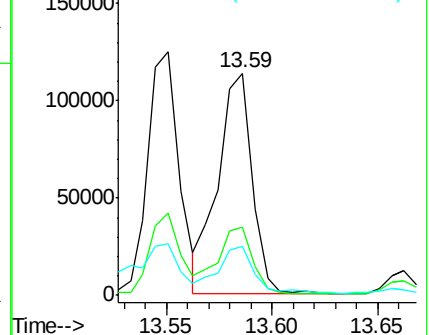
229 22.1 15.8 23.6



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: 5.351 ng

RT: 16.10 min Scan# 2416

Delta R.T. -0.11 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

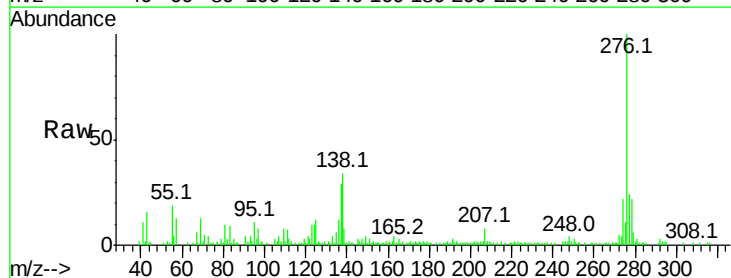
Tgt Ion:276 Resp: 64014

Ion Ratio Lower Upper

276 100

138 31.4 27.8 41.6

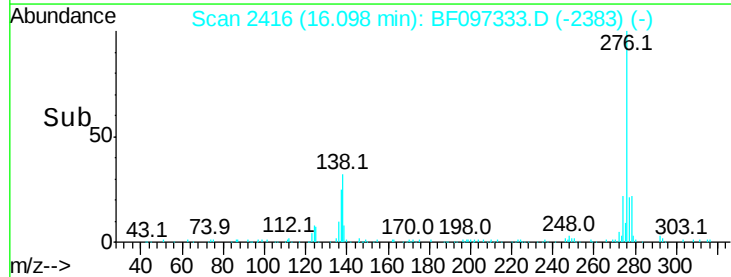
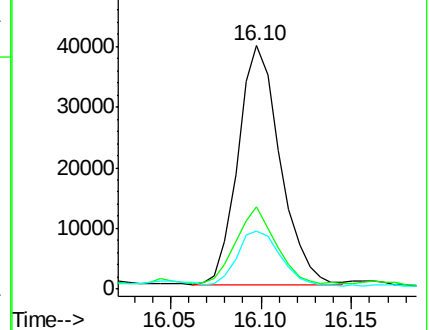
277 23.5 20.2 30.4

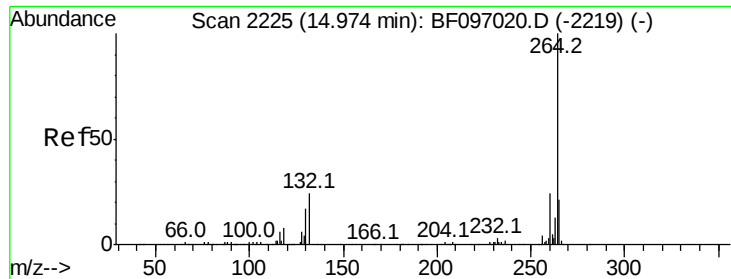


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

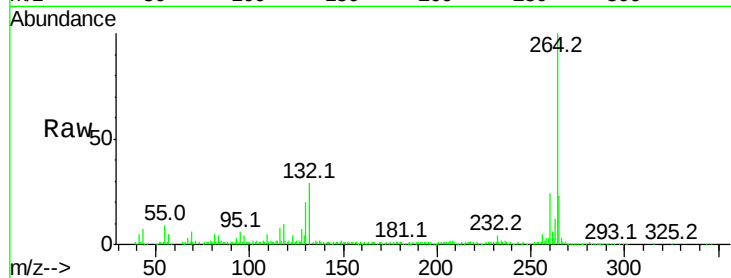




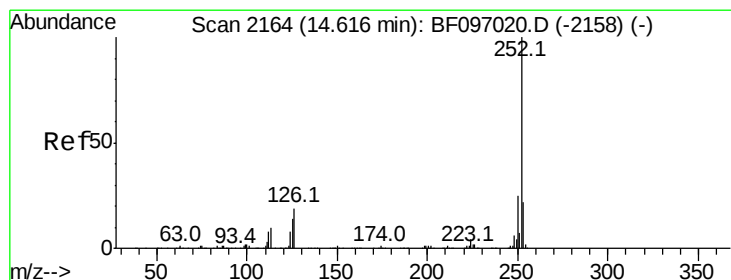
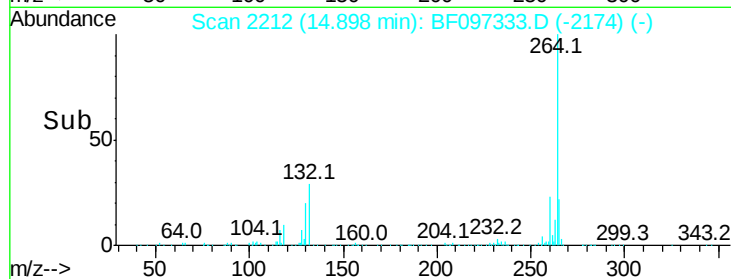
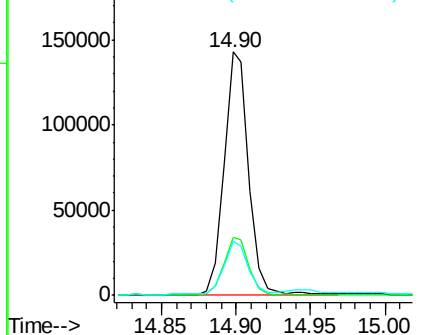
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.90 min Scan# 2212
Delta R.T. -0.08 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

Instrument :
BNA_F
ClientSampleId :
72-11936

Tot Ion:264 Resp: 164599
Ion Ratio Lower Upper
264 100
260 23.9 19.5 29.3
265 22.5 17.2 25.8

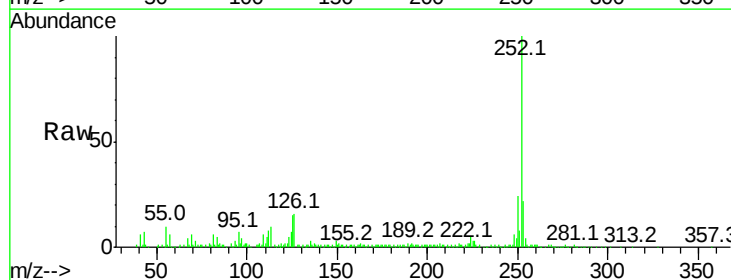


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

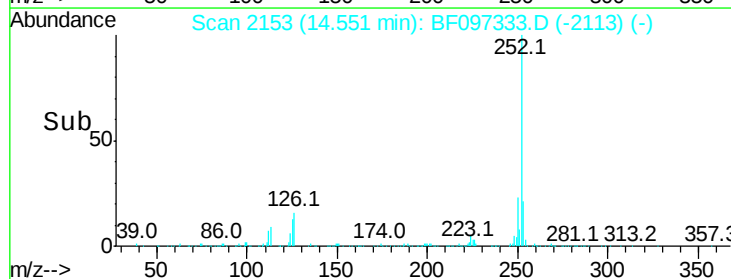
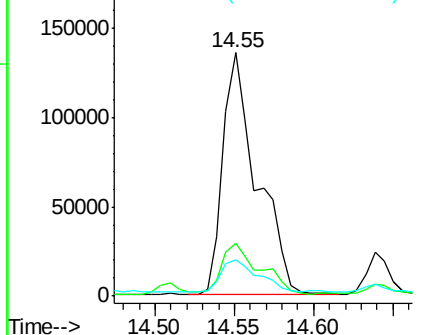


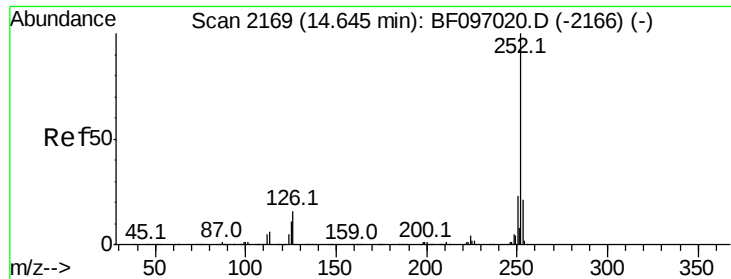
#87
Benzo(b)fluoranthene
Concen: 20.576 ng
RT: 14.55 min Scan# 2153
Delta R.T. -0.06 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

Tgt Ion:252 Resp: 203585
Ion Ratio Lower Upper
252 100
253 21.9 18.1 27.1
125 15.2 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

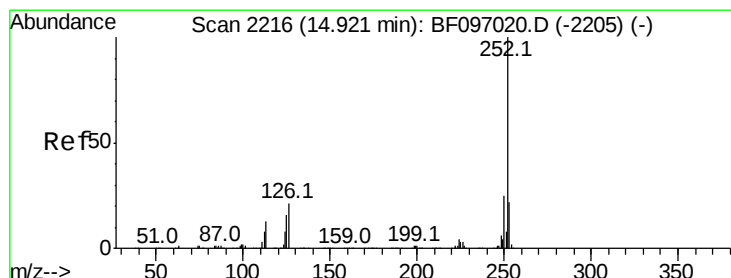
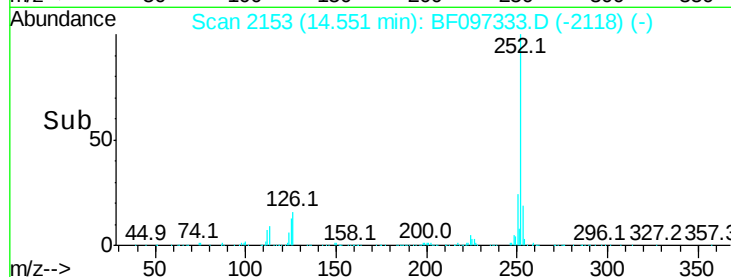
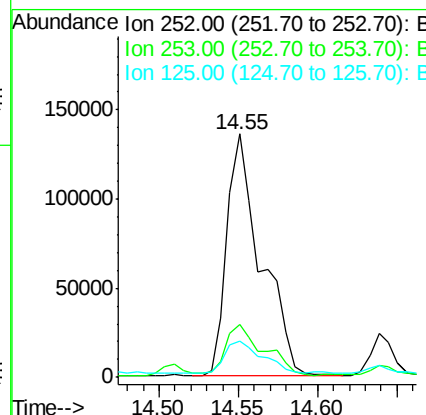
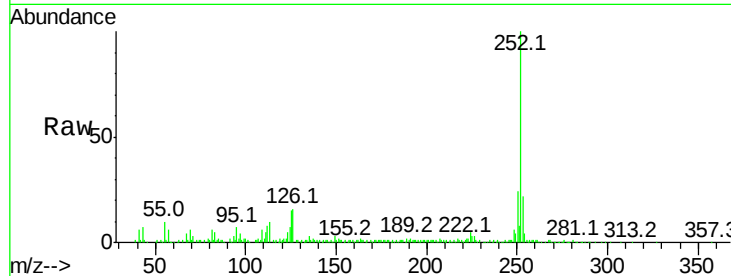




#88
Benzo(k)fluoranthene
Concen: 21.593 ng
RT: 14.55 min Scan# 2153
Delta R.T. -0.09 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

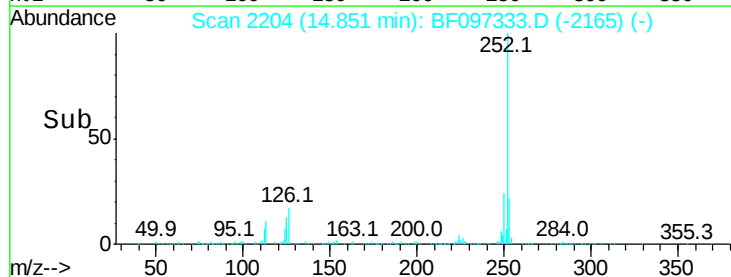
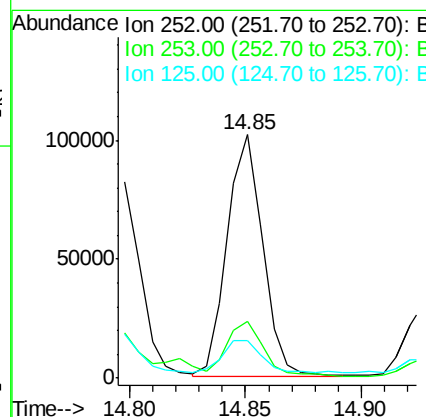
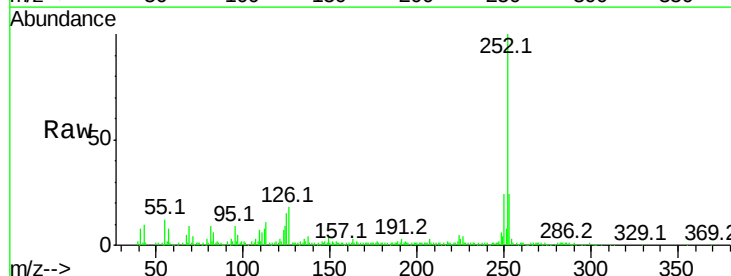
Instrument :
BNA_F
ClientSampleId :
72-11936

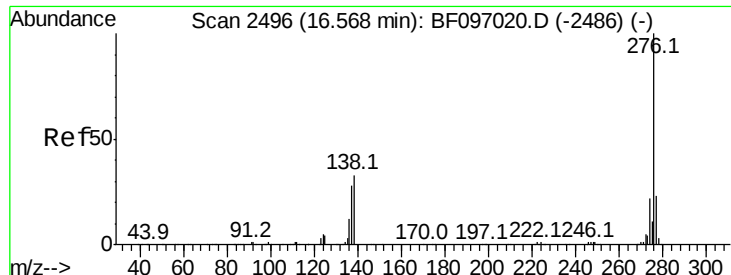
Tot Ion:	252	Resp:	203585
Ion Ratio	Lower	Upper	
252	100		
253	21.9	18.4	27.6
125	15.2	13.1	19.7



#89
Benzo(a)pyrene
Concen: 12.044 ng
RT: 14.85 min Scan# 2204
Delta R.T. -0.07 min
Lab File: BF097333.D
Acq: 3 Aug 2017 22:56

Tgt Ion:	252	Resp:	109064
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.5	26.3
125	15.3	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 8.196 ng

RT: 16.46 min Scan# 2477

Delta R.T. -0.11 min

Lab File: BF097333.D

Acq: 3 Aug 2017 22:56

Instrument :

BNA_F

ClientSampleId :

72-11936

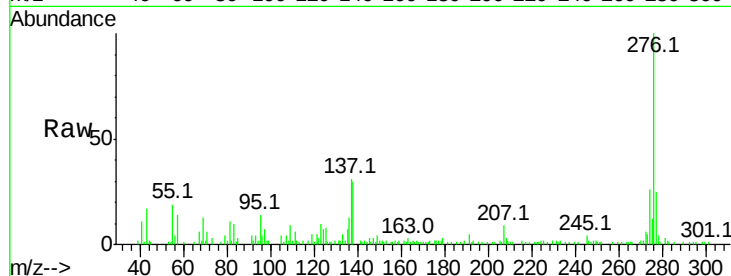
Tot Ion:276 Resp: 63829

Ion Ratio Lower Upper

276 100

277 25.1 18.6 28.0

138 29.6 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

