

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
 Data File : BF097797.D
 Acq On : 17 Aug 2017 20:27
 Operator : SJ/JU
 Sample : I4815-04 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

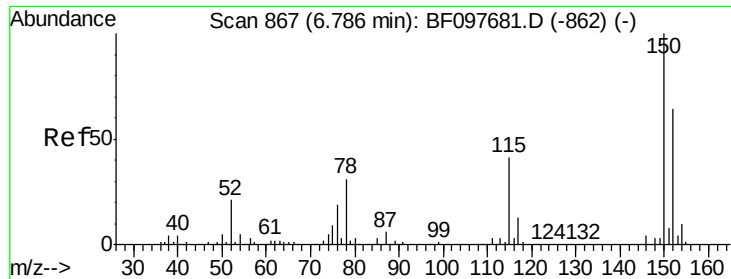
Instrument :
 BNA_F
 ClientSampleId :
 TR-05-081517-B

Quant Time: Aug 18 01:33:05 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	135000	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	487177	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	182036	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	294502	20.00	ng	-0.01
75) Chrysene-d12	13.93	240	283883	20.00	ng	-0.01
86) Perylene-d12	15.36	264	207960	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	260276	29.33	ng	-0.02
7) Phenol-d6	6.40	99	336971	27.94	ng	-0.01
23) Nitrobenzene-d5	7.33	82	192744	21.49	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	35027	22.18	ng	-0.02
44) 2-Fluorobiphenyl	9.13	172	272597	22.00	ng	-0.01
78) Terphenyl-d14	12.87	244	185764	13.65	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.33	70	26084	3.16	ng	# 73
25) Isophorone	7.33	82	192742	10.34	ng	# 67
49) Dimethylphthalate	9.53	163	30432	2.29	ng	98
50) 2,6-Dinitrotoluene	9.81	165	23661	8.91	ng	# 34
56) 2,4-Dinitrotoluene	9.81	165	23661	7.10	ng	# 34
70) Phenanthrene	11.32	178	122397	7.80	ng	98
71) Anthracene	11.37	178	33522	2.11	ng	96
74) Fluoranthene	12.50	202	218086	13.31	ng	99
77) Pyrene	12.73	202	220475	9.50	ng	98
80) Benzo(a)anthracene	13.92	228	130925	7.70	ng	95
82) Chrysene	13.95	228	122962	7.26	ng	99
85) Indeno(1,2,3-cd)pyrene	16.74	276	49030	3.94	ng	# 90
87) Benzo(b)fluoranthene	14.94	252	182167	13.90	ng	99
88) Benzo(k)fluoranthene	14.94	252	182167	14.79	ng	97
89) Benzo(a)pyrene	15.29	252	93537	8.06	ng	97
91) Benzo(g,h,i)perylene	17.17	276	46779	4.75	ng	# 91

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

```
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
Data File : BF097797.D
Acq On    : 17 Aug 2017  20:27
Operator  : SJ/JU
Sample    : I4815-04 5X
Misc      :
ALS Vial  : 13      Sample Multiplier: 1
```

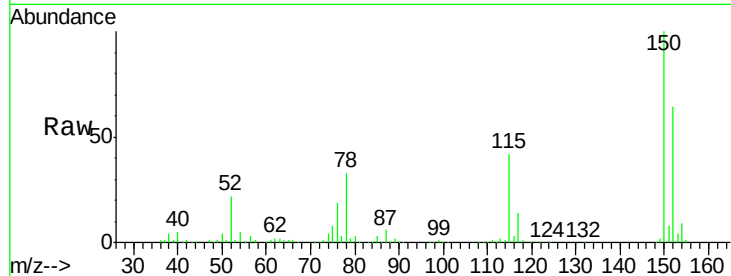


#1

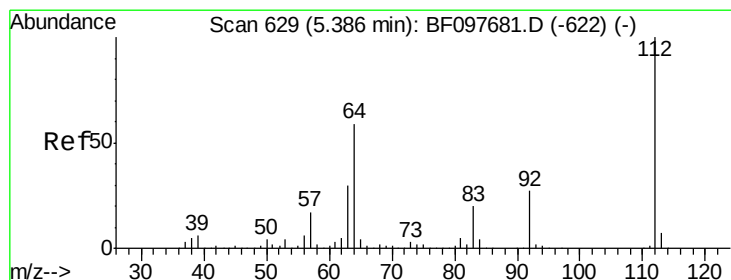
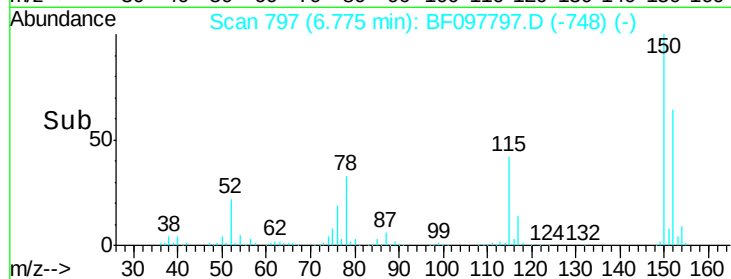
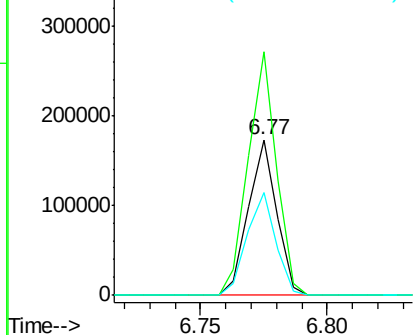
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF097797.D
Acq: 17 Aug 2017 20:27

Instrument :
BNA_F
ClientSampleId :
TR-05-081517-B

Tot Ion:152 Resp: 135000
Ion Ratio Lower Upper
152 100
150 156.5 126.2 189.2
115 65.9 52.2 78.2



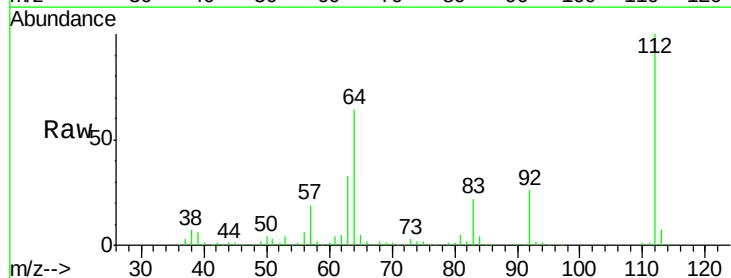
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



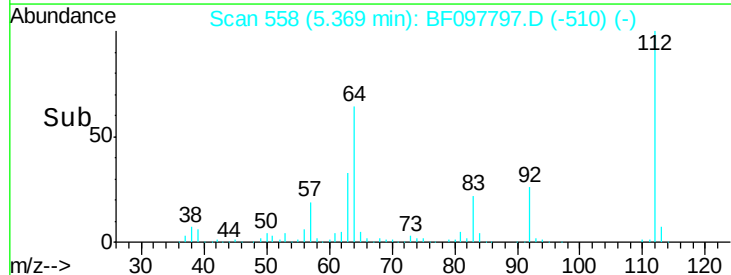
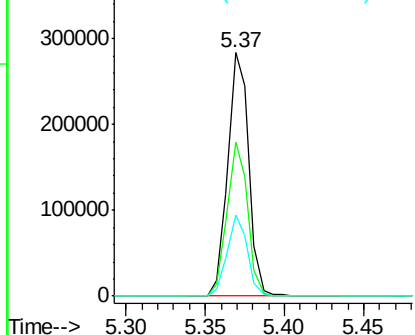
#5

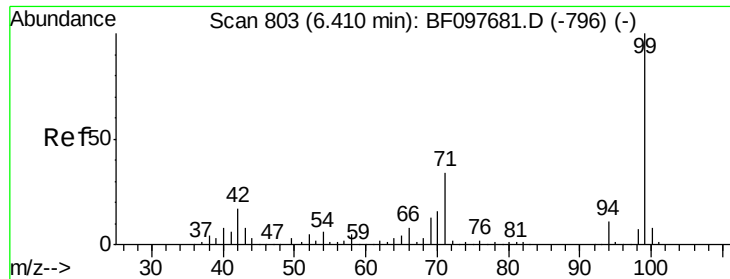
2-Fluorophenol
Concen: 29.33 ng
RT: 5.37 min Scan# 558
Delta R.T. -0.02 min
Lab File: BF097797.D
Acq: 17 Aug 2017 20:27

Tgt Ion:112 Resp: 260276
Ion Ratio Lower Upper
112 100
64 63.5 46.0 69.0
63 33.3 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: 27.94 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-B

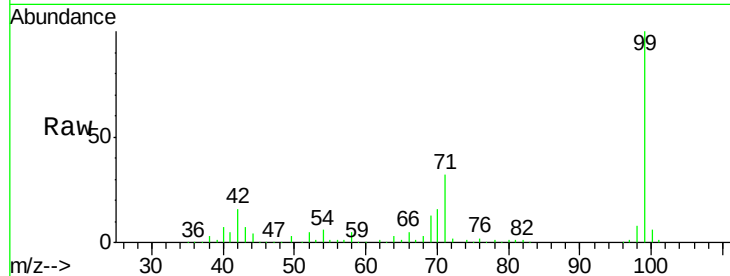
Tot Ion: 99 Resp: 336971

Ion Ratio Lower Upper

99 100

42 15.6 13.5 20.3

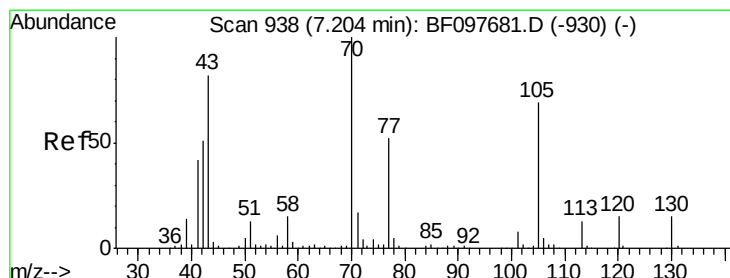
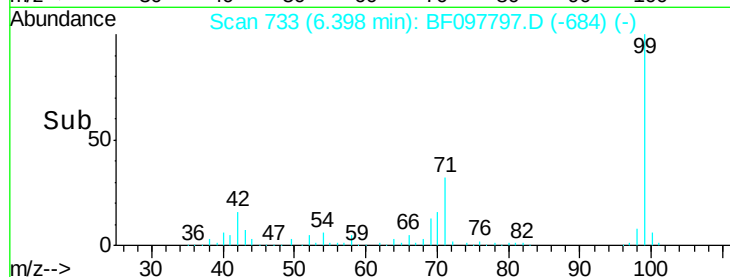
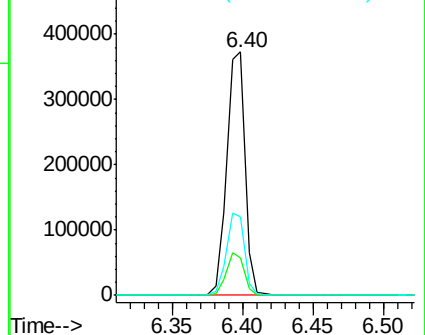
71 32.4 24.5 36.7



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: 3.16 ng

RT: 7.33 min Scan# 892

Delta R.T. 0.13 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

Tgt Ion: 70 Resp: 26084

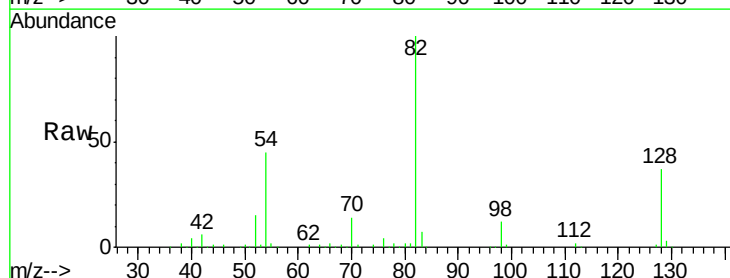
Ion Ratio Lower Upper

70 100

42 42.1 47.2 70.8#

101 0.0 7.2 10.8#

130 1.8 15.9 23.9#

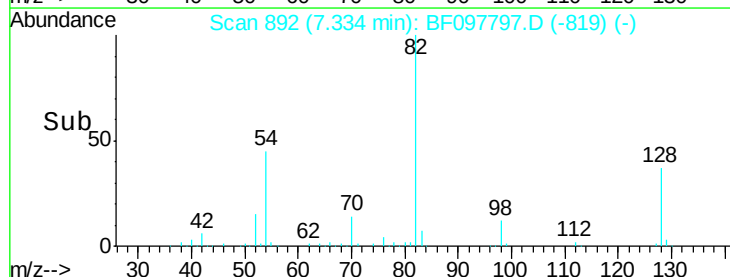
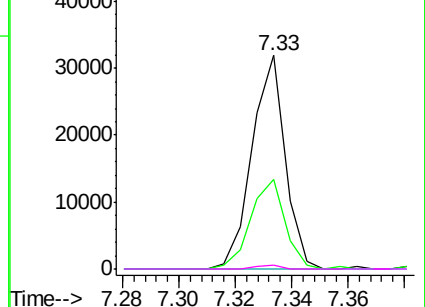


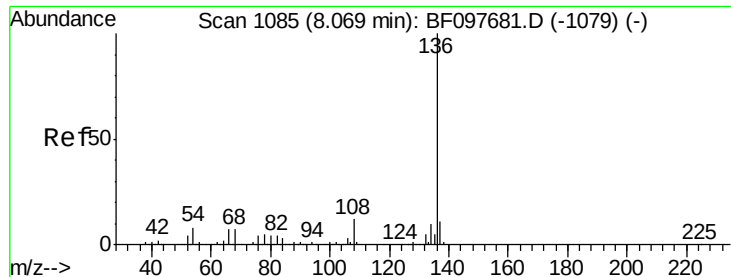
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-B

Tot Ion:136 Resp: 487177

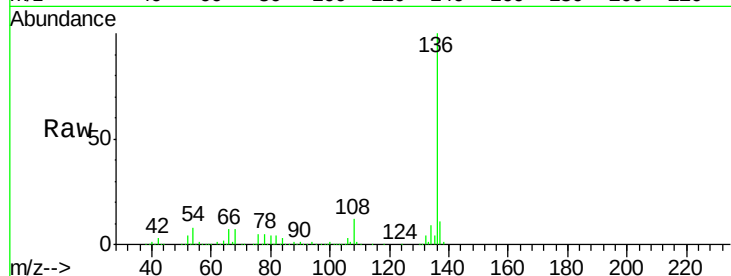
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 8.1 4.9 7.3#

68 7.3 4.1 6.1#

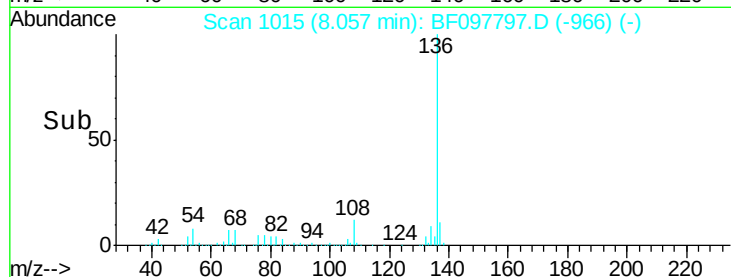


Abundance Ion 136.00 (135.70 to 136.70): E

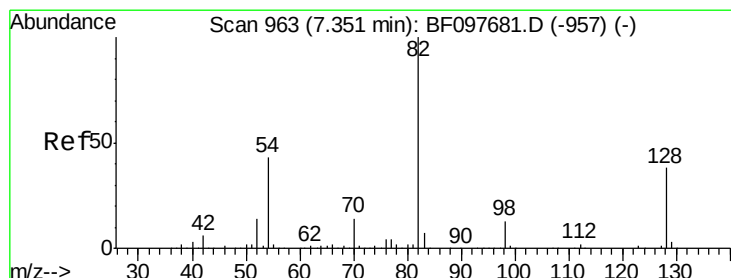
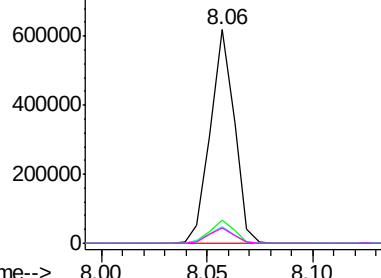
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 21.49 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.02 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

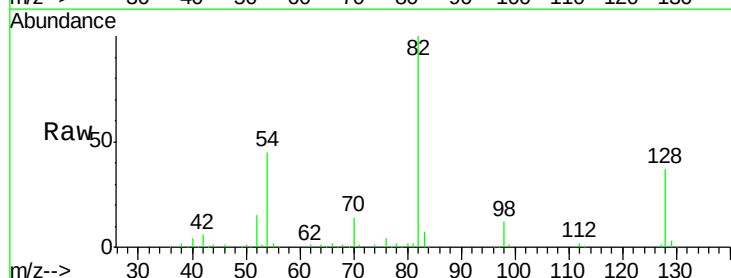
Tgt Ion: 82 Resp: 192744

Ion Ratio Lower Upper

82 100

128 37.3 34.0 51.0

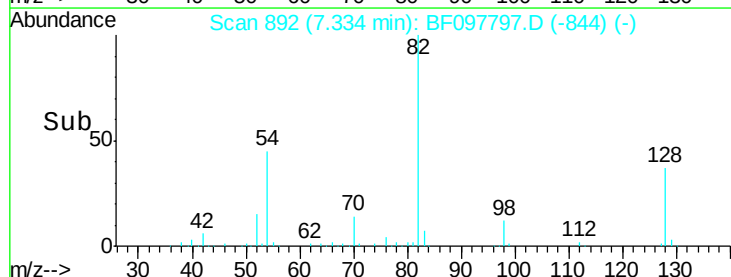
54 44.7 42.2 63.2



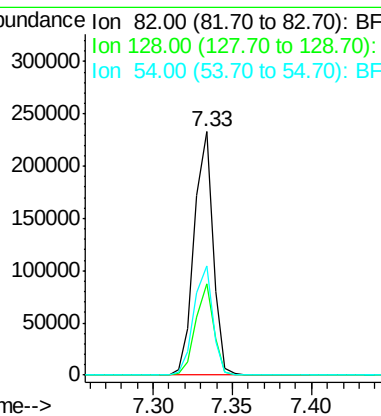
Abundance Ion 82.00 (81.70 to 82.70): BF0

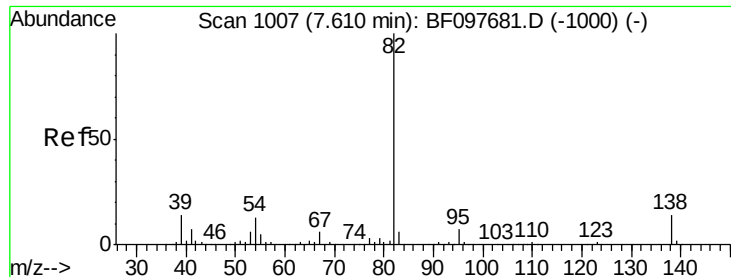
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#25

Isophorone

Concen: 10.34 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.28 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-B

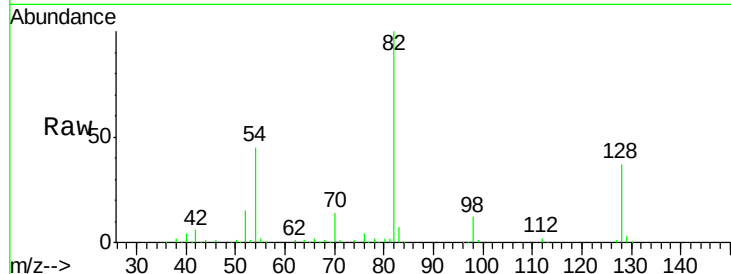
Tot Ion: 82 Resp: 192742

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

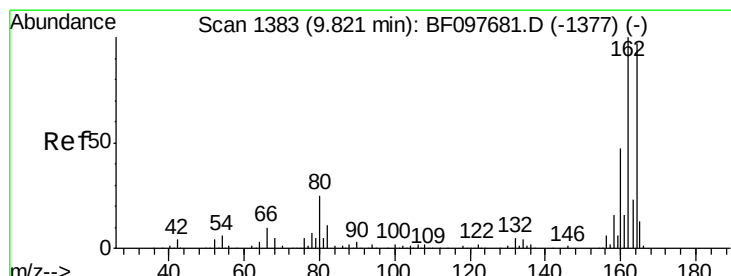
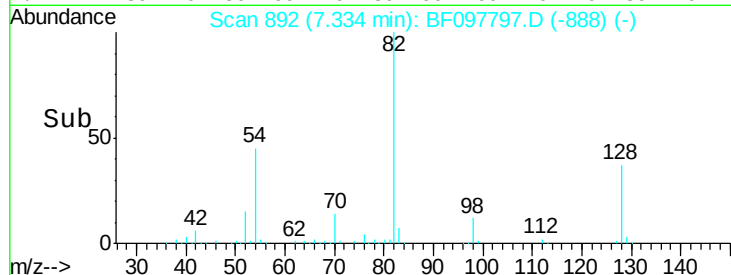
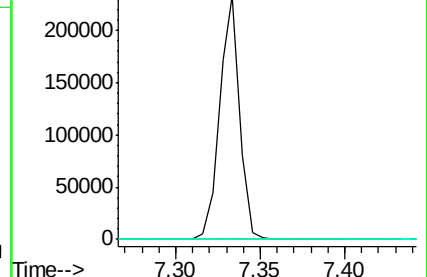
138 0.0 13.1 19.7#



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: 9.81 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

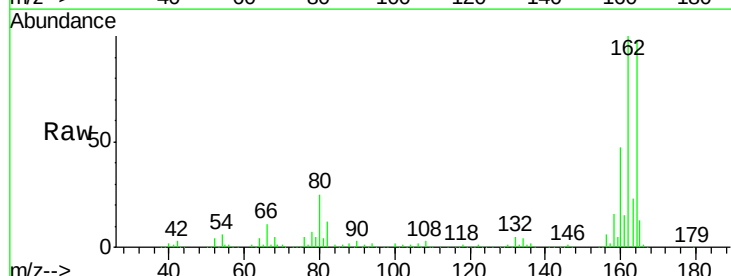
Tgt Ion:164 Resp: 182036

Ion Ratio Lower Upper

164 100

162 101.7 82.6 123.8

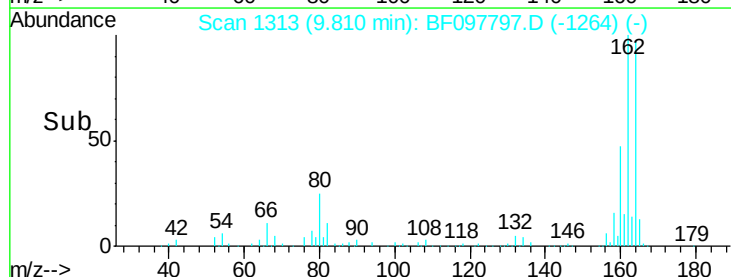
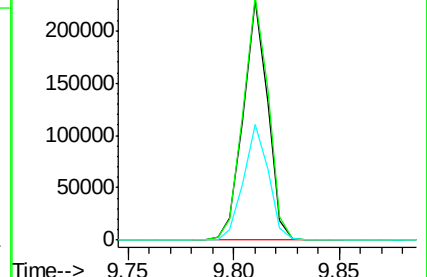
160 48.2 36.2 54.2

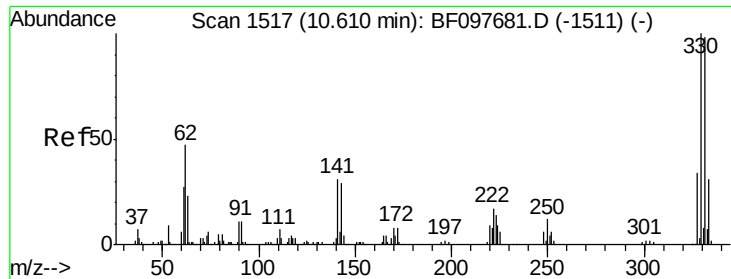


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

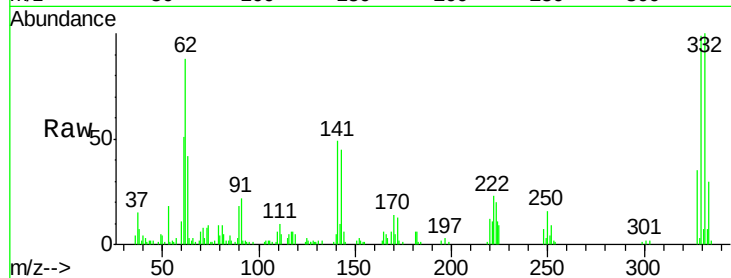




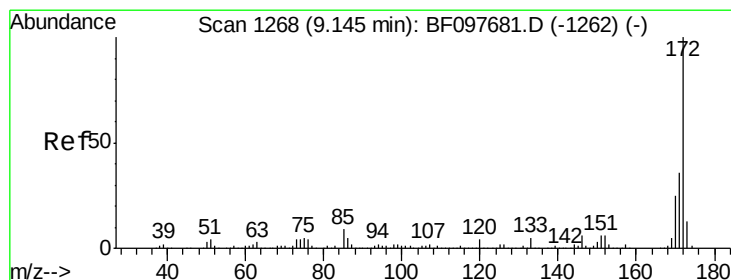
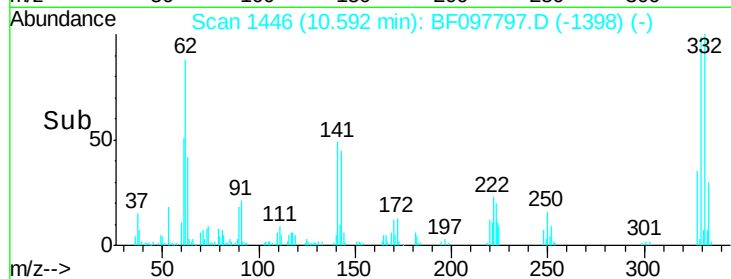
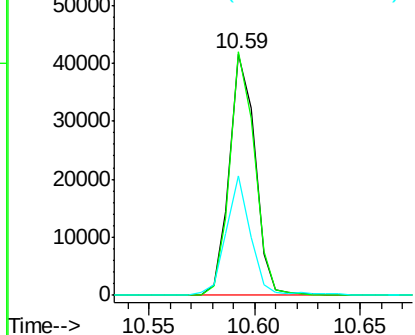
#41
 2,4,6-Tribromophenol
 Concen: 22.18 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. -0.02 min
 Lab File: BF097797.D
 Acq: 17 Aug 2017 20:27

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-081517-B

Tot Ion:330 Resp: 35027
 Ion Ratio Lower Upper
 330 100
 332 97.6 76.6 115.0
 141 48.2 31.4 47.2#

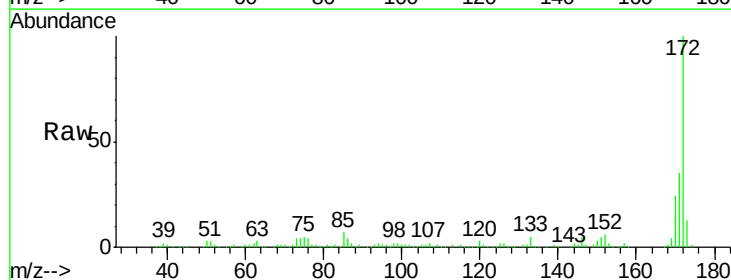


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

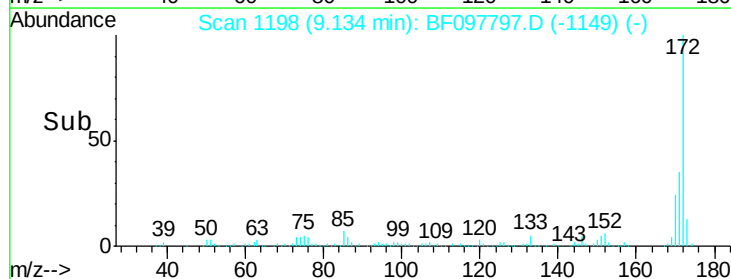
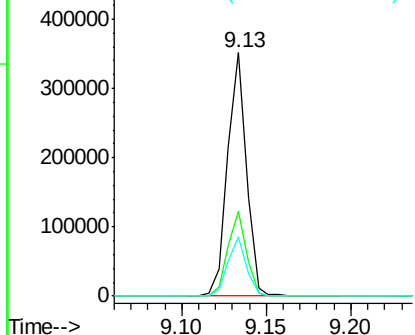


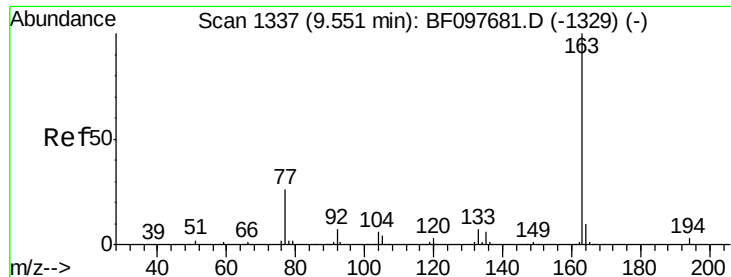
#44
 2-Fluorobiphenyl
 Concen: 22.00 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: BF097797.D
 Acq: 17 Aug 2017 20:27

Tgt Ion:172 Resp: 272597
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.6 44.4
 170 24.1 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

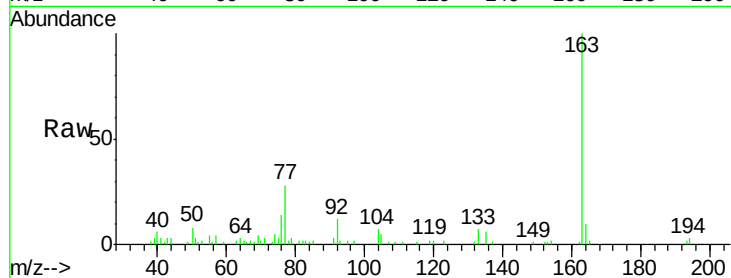




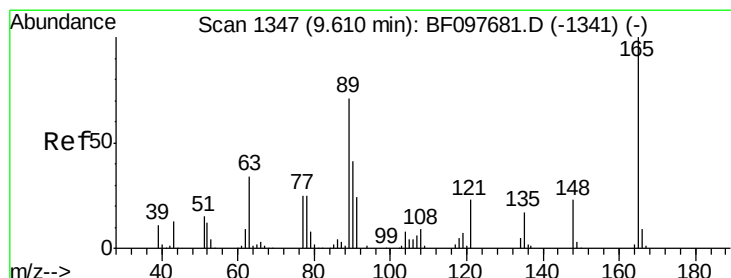
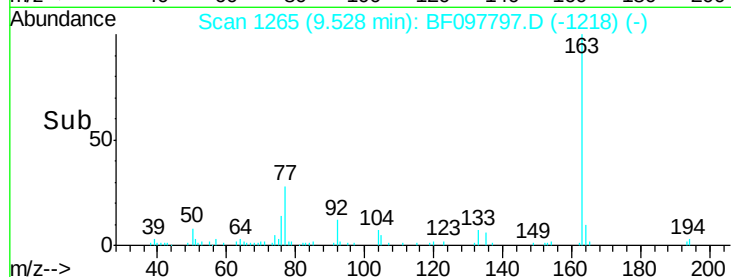
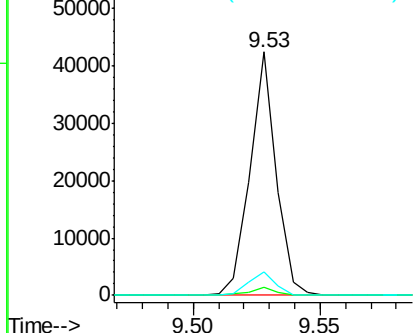
#49
Dimethylphthalate
Concen: 2.29 ng
RT: 9.53 min Scan# 1265
Delta R.T. -0.02 min
Lab File: BF097797.D
Acq: 17 Aug 2017 20:27

Instrument :
BNA_F
ClientSampleId :
TR-05-081517-B

Tot Ion:163 Resp: 30432
Ion Ratio Lower Upper
163 100
194 3.1 2.6 4.0
164 9.5 8.4 12.6

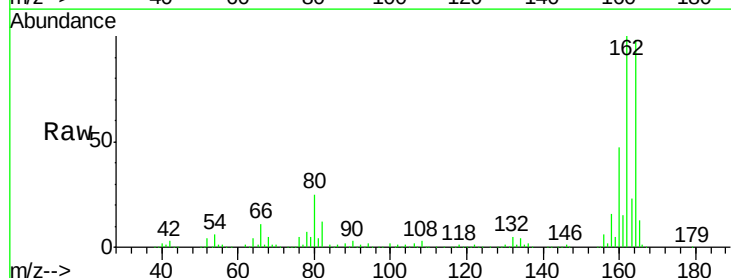


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

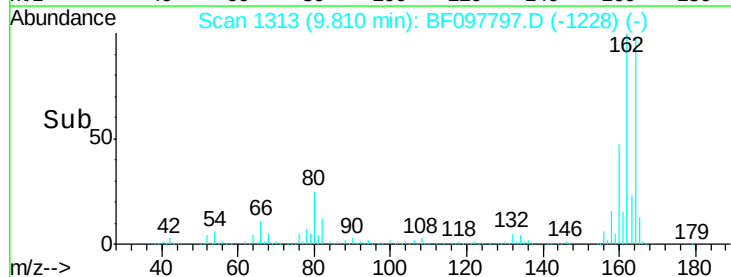
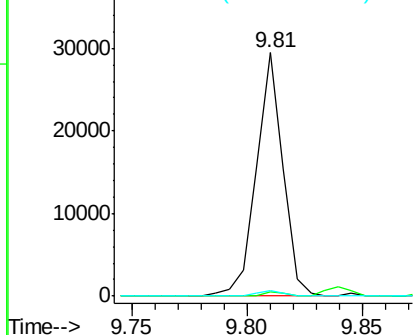


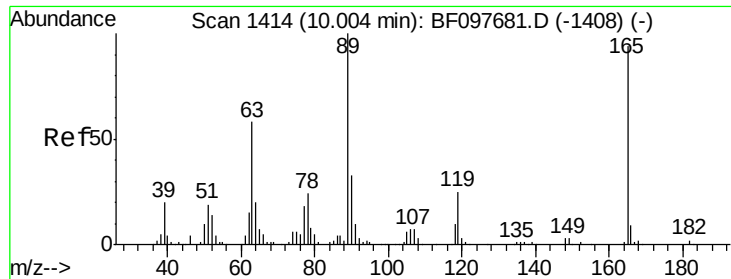
#50
2,6-Dinitrotoluene
Concen: 8.91 ng
RT: 9.81 min Scan# 1313
Delta R.T. 0.20 min
Lab File: BF097797.D
Acq: 17 Aug 2017 20:27

Tgt Ion:165 Resp: 23661
Ion Ratio Lower Upper
165 100
63 1.5 34.3 51.5#
89 2.0 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

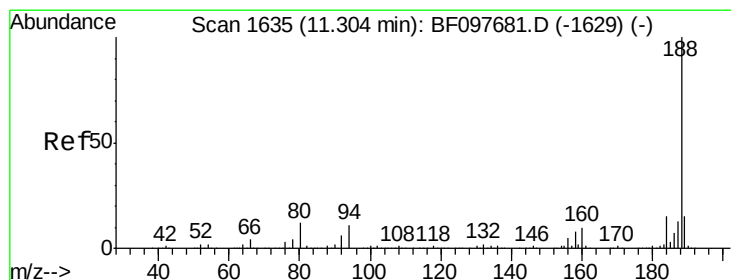
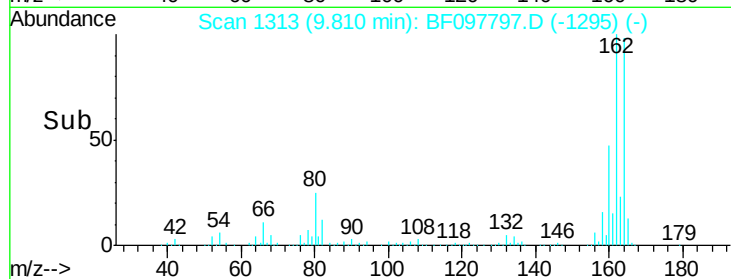
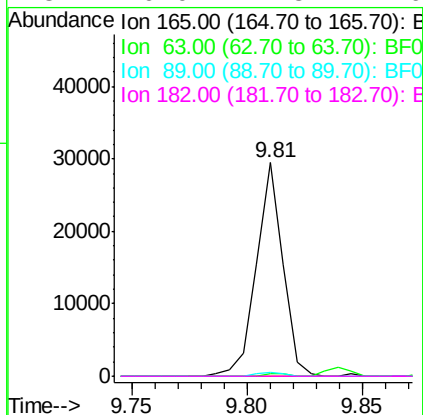
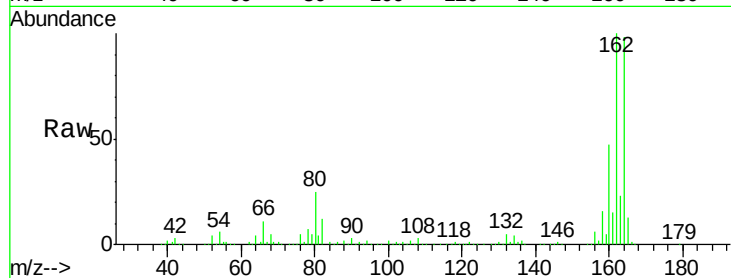




#56
 2,4-Dinitrotoluene
 Concen: 7.10 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. -0.19 min
 Lab File: BF097797.D
 Acq: 17 Aug 2017 20:27

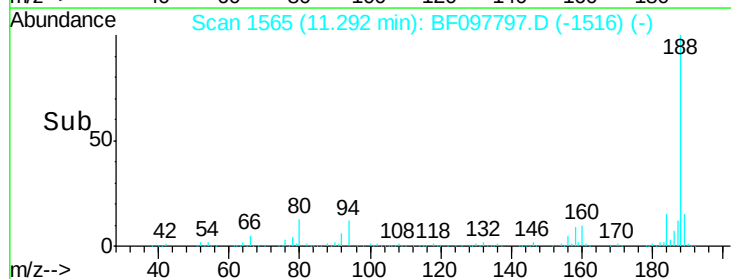
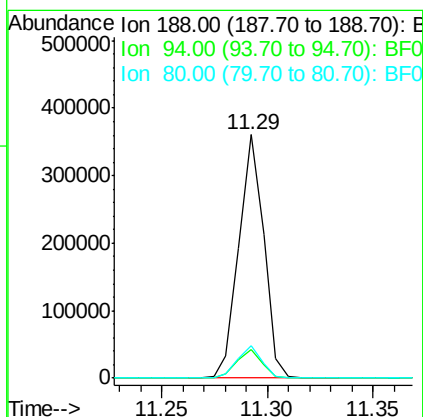
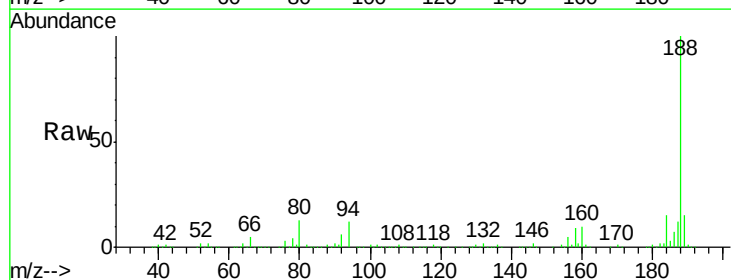
Instrument :
 BNA_F
 ClientSampleId :
 TR-05-081517-B

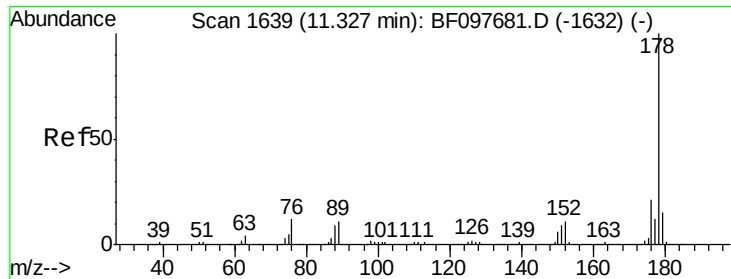
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.5	25.4	38.0#
89	2.0	46.4	69.6#
182	0.0	1.8	2.6#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.29 min Scan# 1565
 Delta R.T. -0.01 min
 Lab File: BF097797.D
 Acq: 17 Aug 2017 20:27

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.9	9.4	14.2
80	13.2	10.2	15.2





#70

Phenanthrene

Concen: 7.80 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

Instrument :

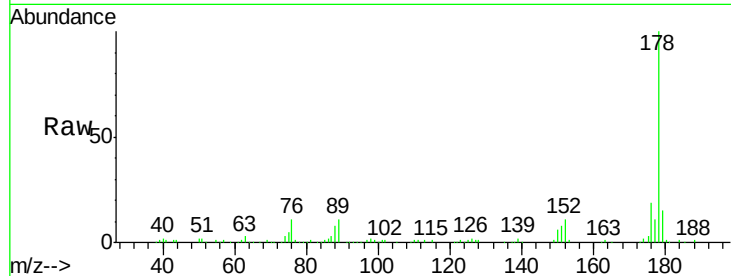
BNA_F

ClientSampleId :

TR-05-081517-B

Tot Ion:178 Resp: 122397

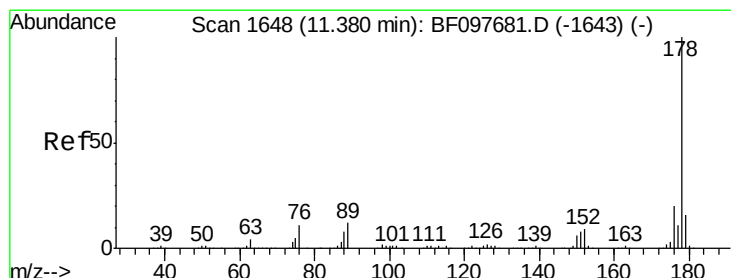
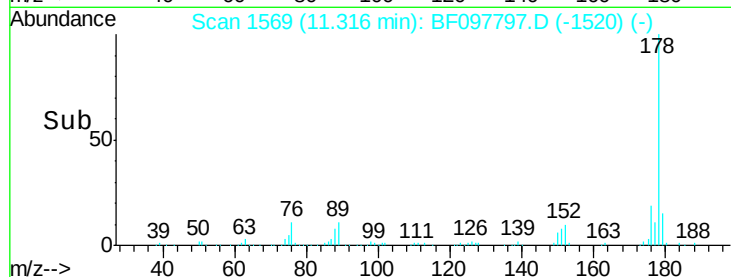
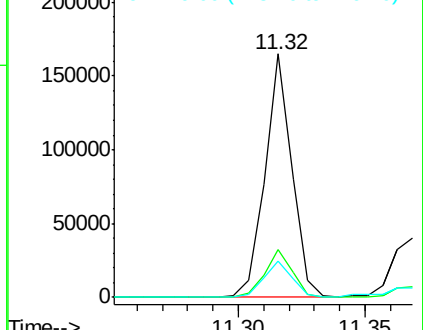
Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.2	24.4
179	15.1	12.6	19.0



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: 2.11 ng

RT: 11.37 min Scan# 1578

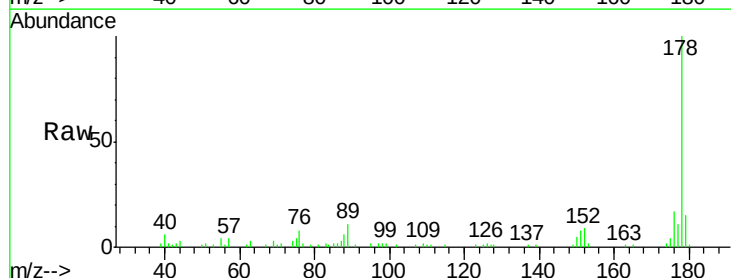
Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

Tgt Ion:178 Resp: 33522

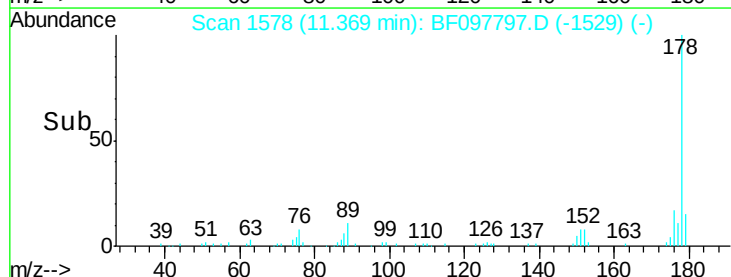
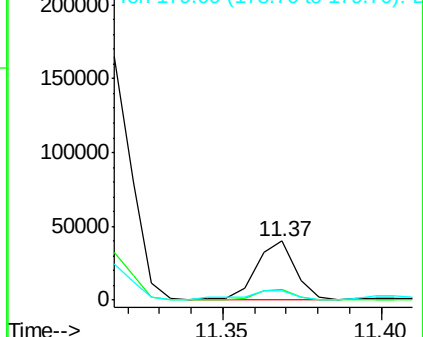
Ion	Ratio	Lower	Upper
178	100		
176	17.1	15.8	23.8
179	15.2	12.7	19.1

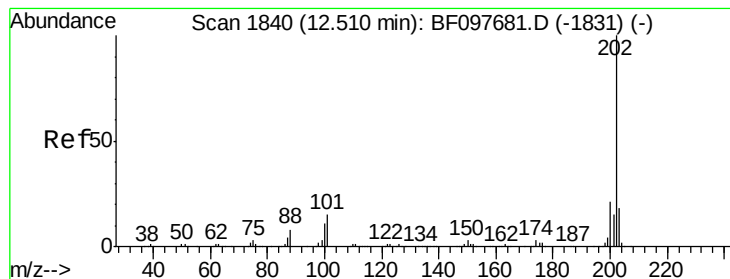


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 13.31 ng

RT: 12.50 min Scan# 1771

Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-B

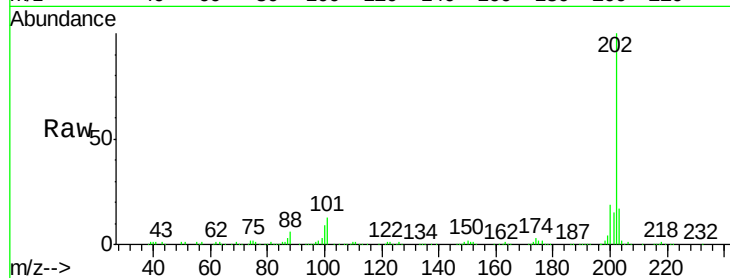
Tot Ion:202 Resp: 218086

Ion Ratio Lower Upper

202 100

101 13.0 0.0 33.2

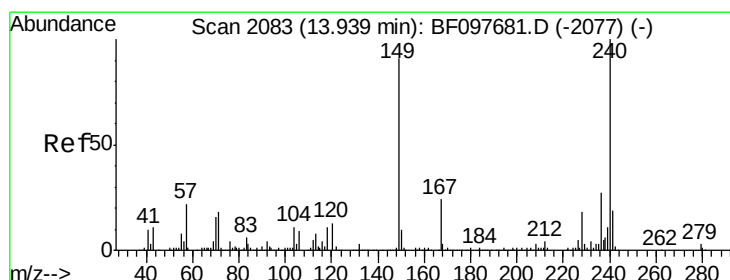
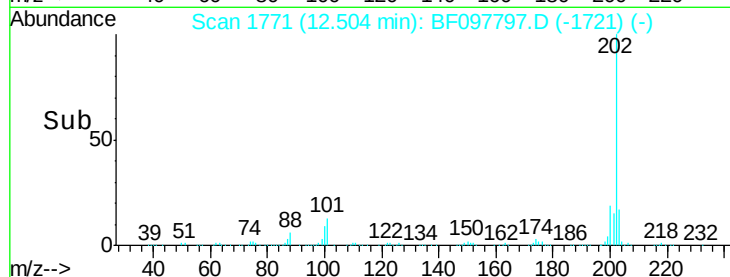
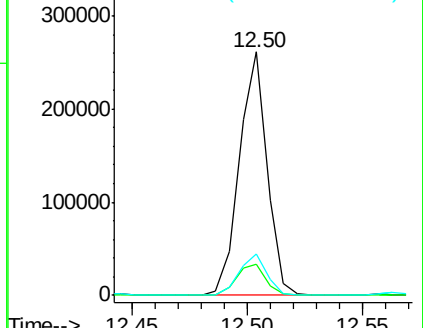
203 17.3 0.0 38.1



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: 13.93 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

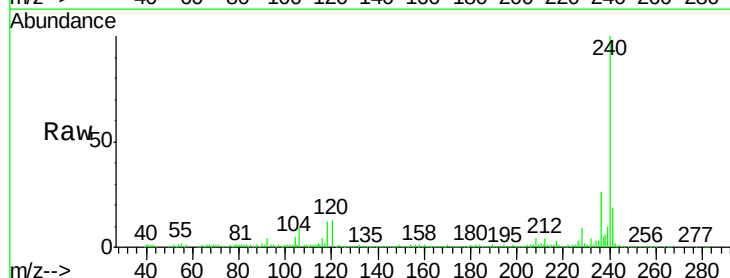
Tgt Ion:240 Resp: 283883

Ion Ratio Lower Upper

240 100

120 13.2 5.8 8.8#

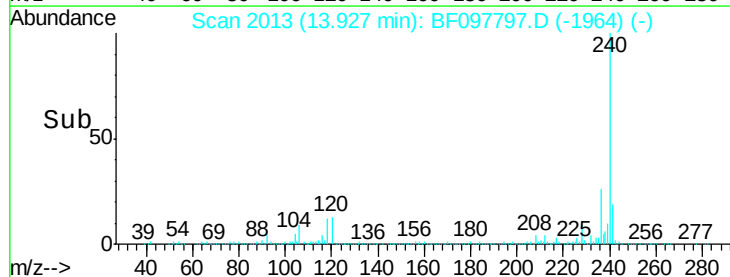
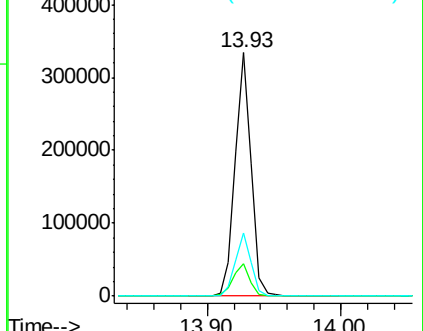
236 25.9 20.5 30.7

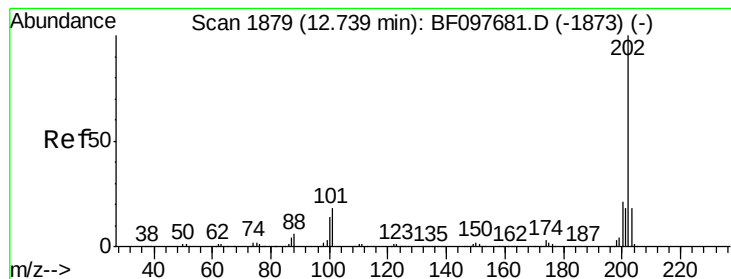


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 9.50 ng

RT: 12.73 min Scan# 1809

Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-B

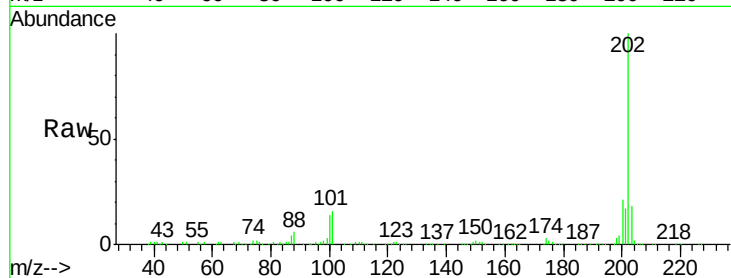
Tot Ion:202 Resp: 220475

Ion Ratio Lower Upper

202 100

200 20.6 17.6 26.4

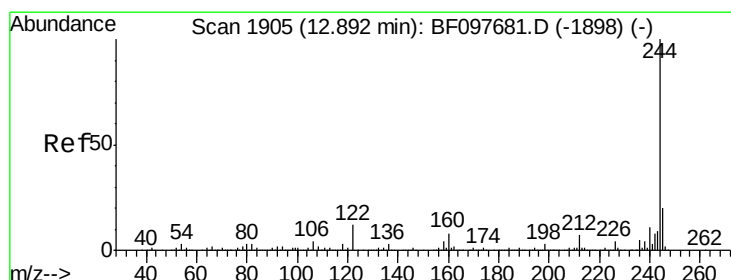
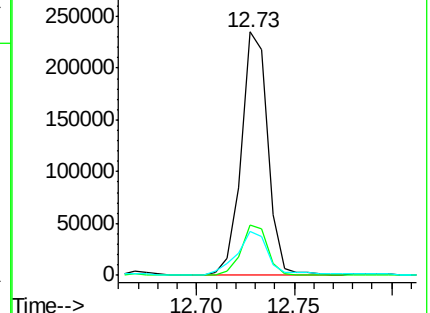
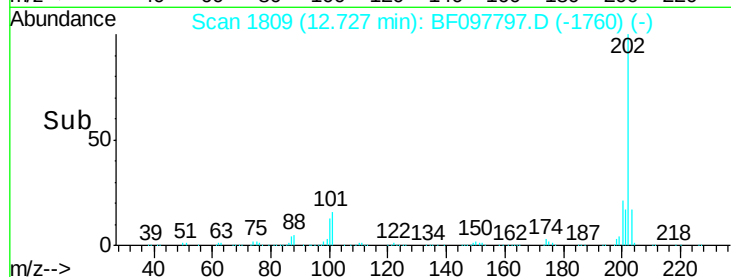
203 18.1 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 13.65 ng

RT: 12.87 min Scan# 1834

Delta R.T. -0.02 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

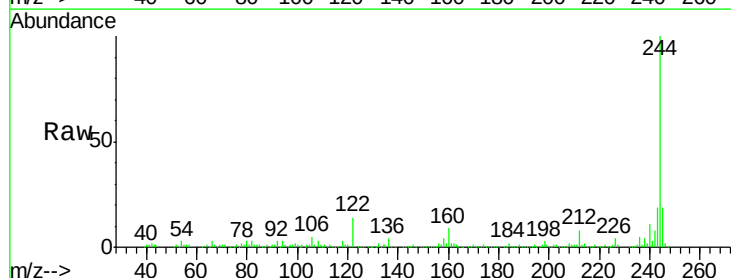
Tgt Ion:244 Resp: 185764

Ion Ratio Lower Upper

244 100

212 7.8 6.0 9.0

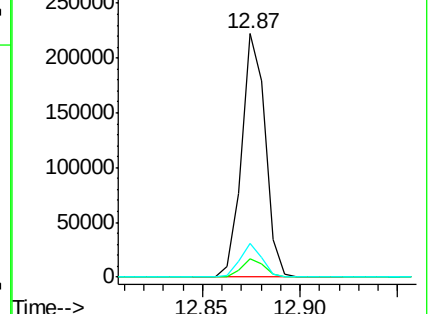
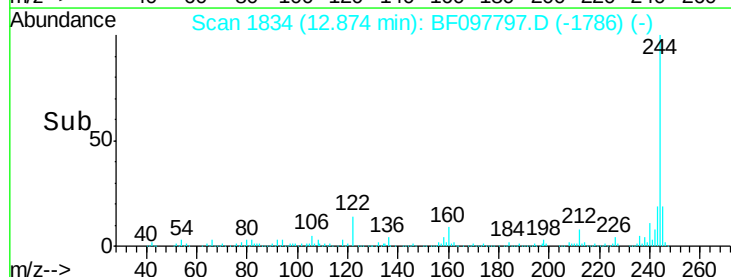
122 14.0 10.3 15.5

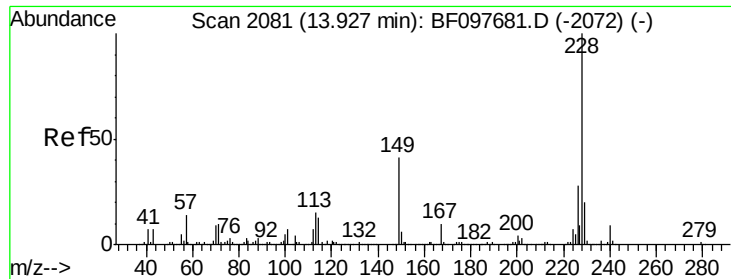


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

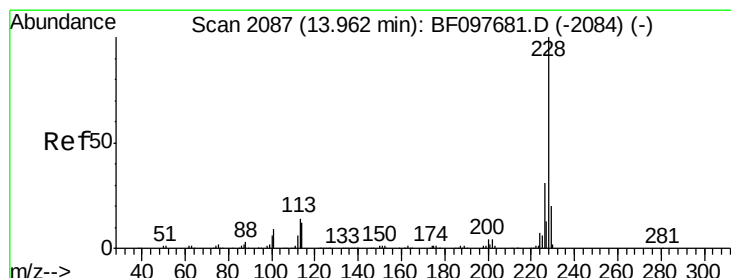
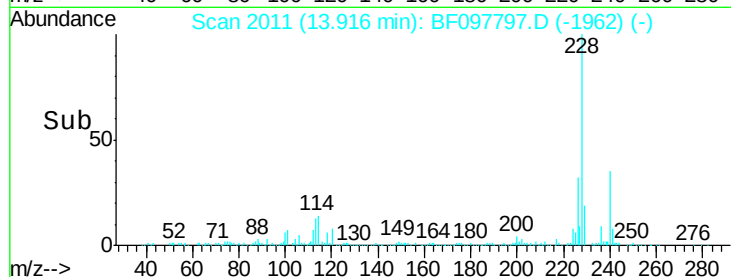
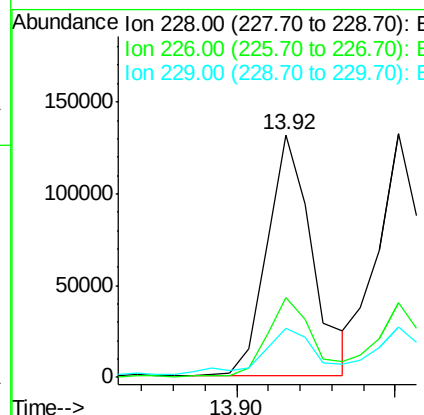
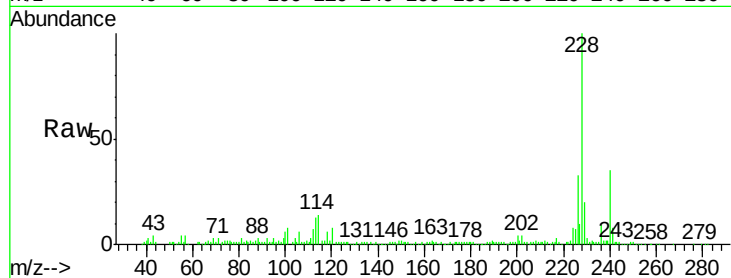




#80
Benzo(a)anthracene
Concen: 7.70 ng
RT: 13.92 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BF097797.D
Acq: 17 Aug 2017 20:27

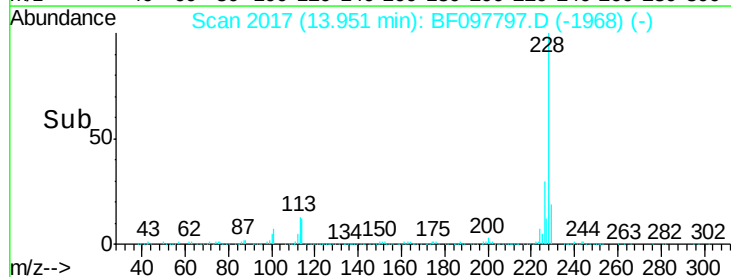
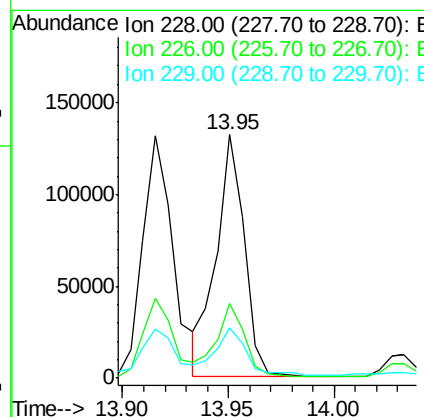
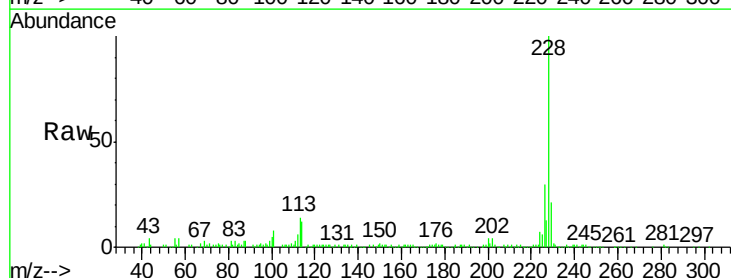
Instrument :
BNA_F
ClientSampleId :
TR-05-081517-B

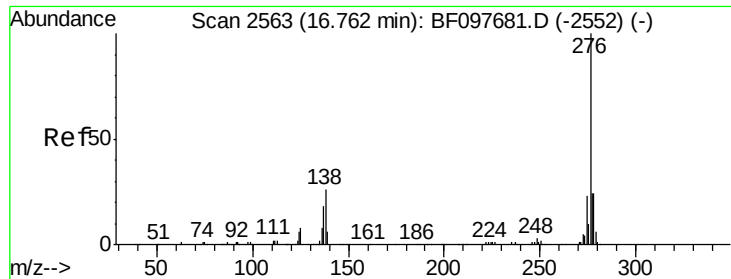
Tot Ion:228	Resp:	130925
Ion Ratio	Lower	Upper
228	100	
226	33.1	22.6 33.8
229	20.3	16.3 24.5



#82
Chrysene
Concen: 7.26 ng
RT: 13.95 min Scan# 2017
Delta R.T. -0.01 min
Lab File: BF097797.D
Acq: 17 Aug 2017 20:27

Tgt Ion:228	Resp:	122962
Ion Ratio	Lower	Upper
228	100	
226	30.5	24.9 37.3
229	20.5	15.8 23.6

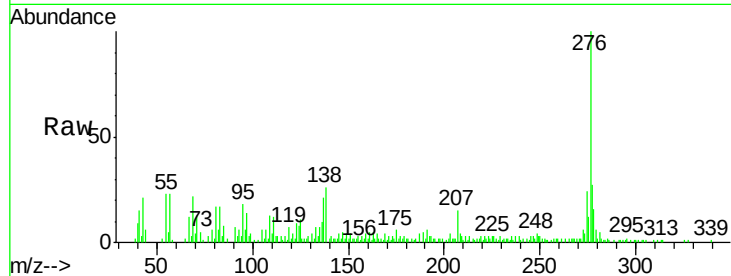




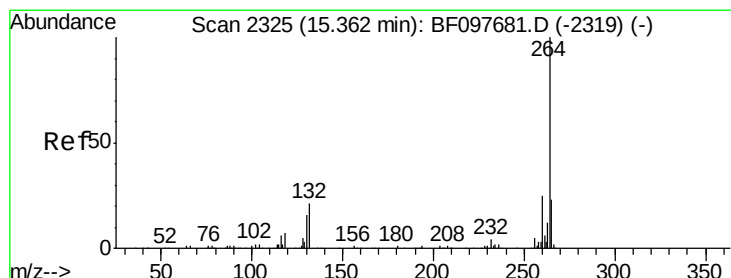
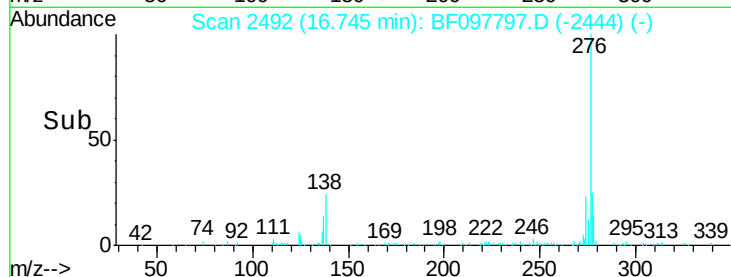
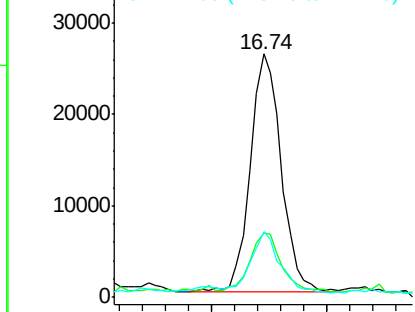
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.94 ng
 RT: 16.74 min Scan# 2492
 Delta R.T. -0.02 min
 Lab File: BF097797.D
 Acq: 17 Aug 2017 20:27

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-081517-B

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.4	27.8	41.6#
277	24.5	20.2	30.4

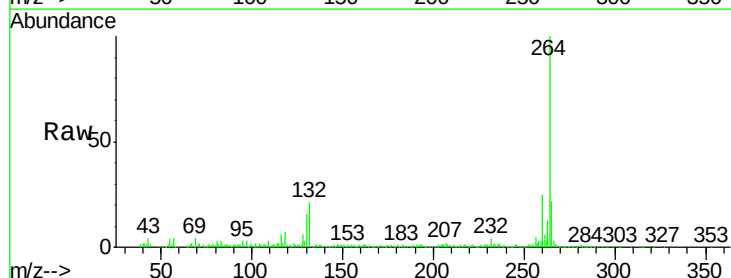


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

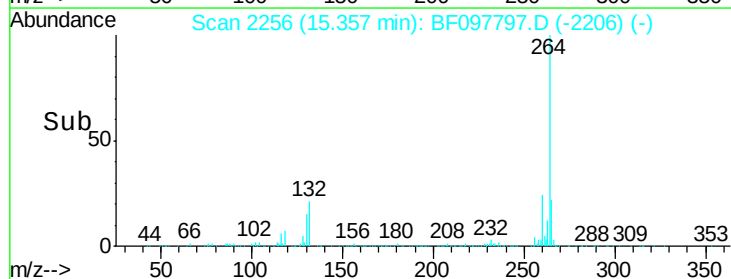
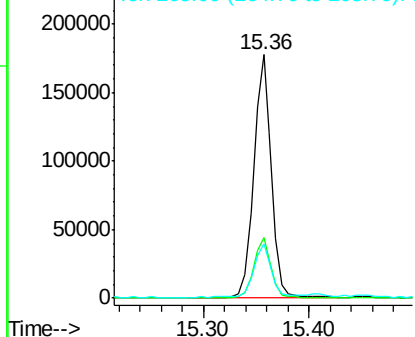


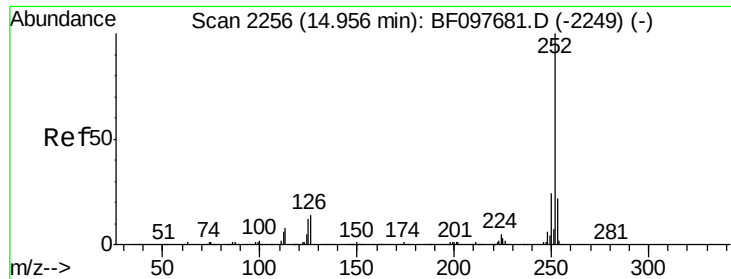
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.36 min Scan# 2256
 Delta R.T. -0.01 min
 Lab File: BF097797.D
 Acq: 17 Aug 2017 20:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	22.1	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: 13.90 ng

RT: 14.94 min Scan# 2186

Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

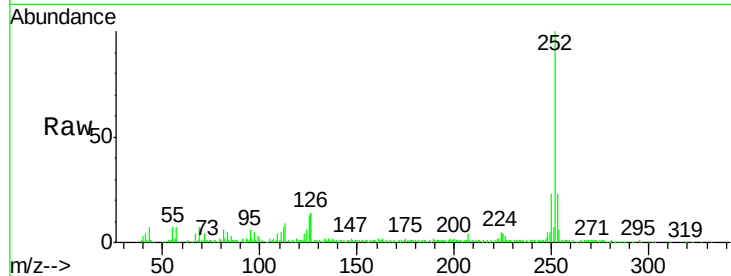
Instrument :

BNA_F

ClientSampleId :

TR-05-081517-B

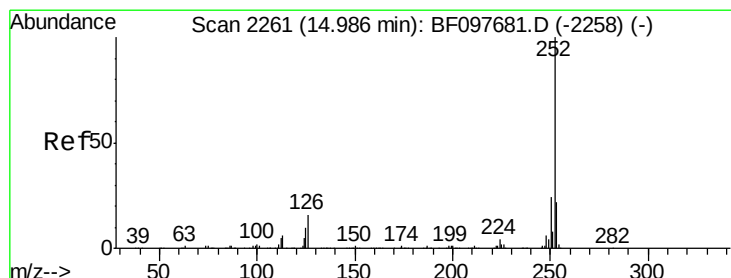
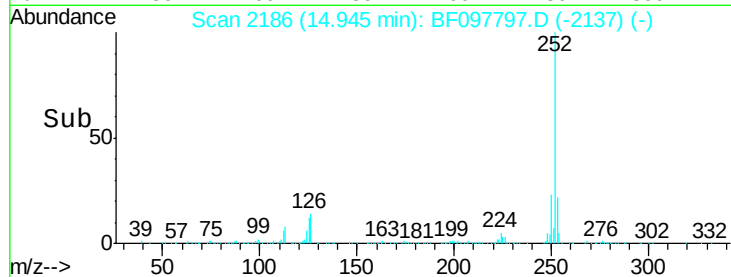
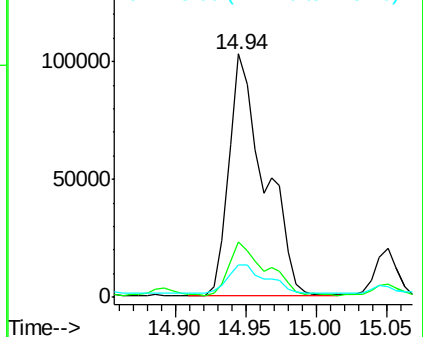
Tot Ion:252	Resp:	182167
Ion Ratio	Lower	Upper
252	100	
253	22.6	18.1 27.1
125	13.4	9.8 14.8



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: 14.79 ng

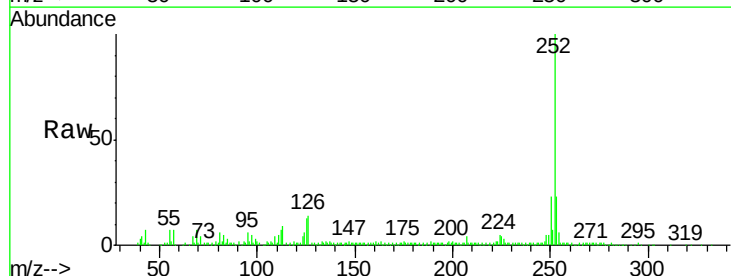
RT: 14.94 min Scan# 2186

Delta R.T. -0.04 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

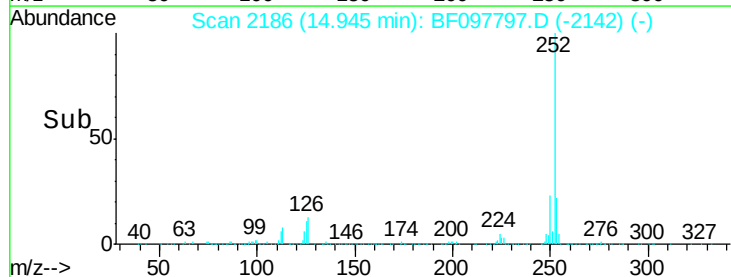
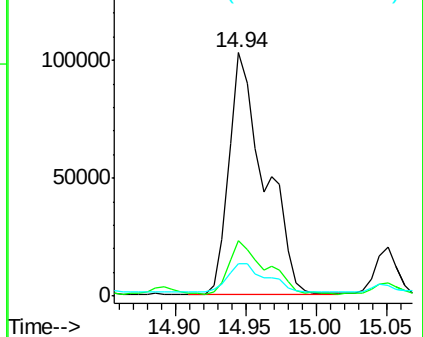
Tgt Ion:252	Resp:	182167
Ion Ratio	Lower	Upper
252	100	
253	22.6	18.4 27.6
125	13.4	13.1 19.7

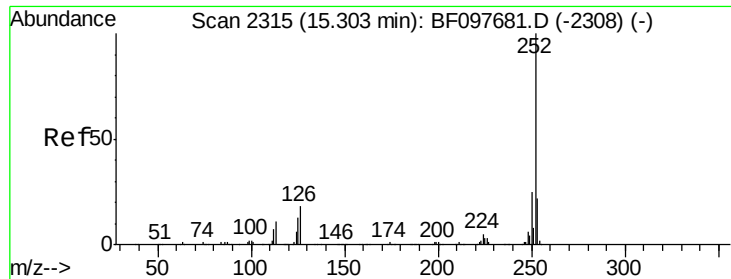


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 8.06 ng

RT: 15.29 min Scan# 2245

Delta R.T. -0.01 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

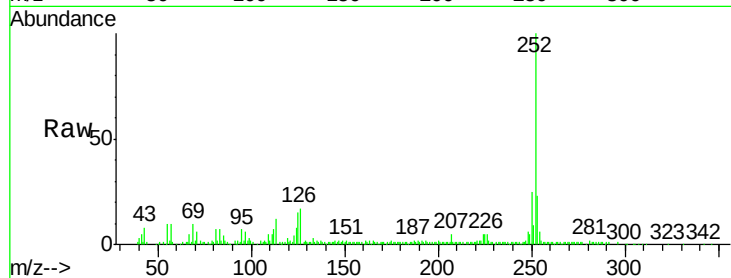
Instrument :

BNA_F

ClientSampleId :

TR-05-081517-B

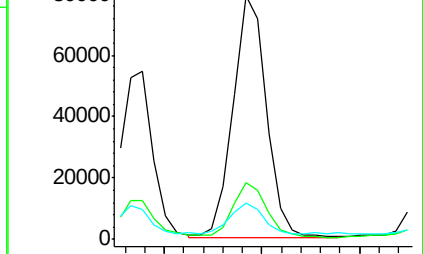
Tot Ion:	252	Resp:	93537
Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	15.1	11.0	16.4



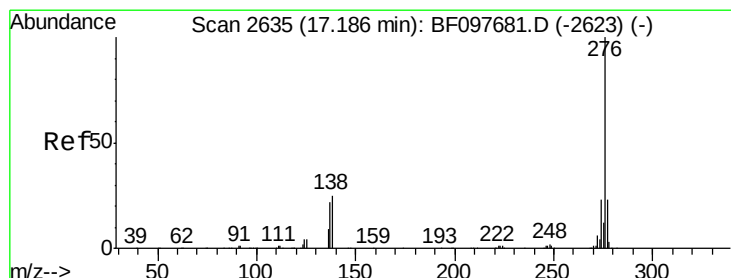
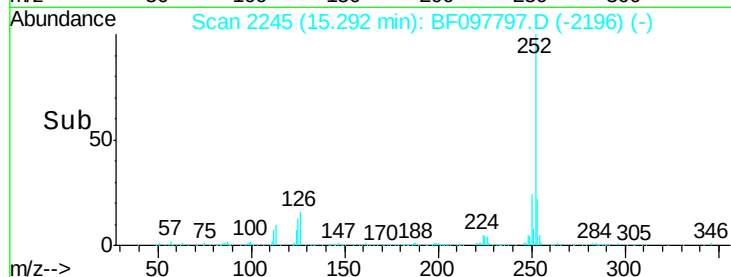
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#91

Benzo(g,h,i)perylene

Concen: 4.75 ng

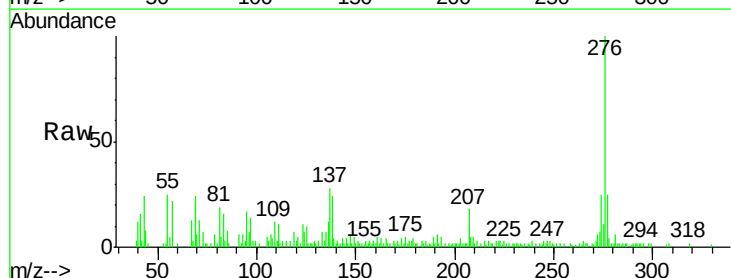
RT: 17.17 min Scan# 2564

Delta R.T. -0.02 min

Lab File: BF097797.D

Acq: 17 Aug 2017 20:27

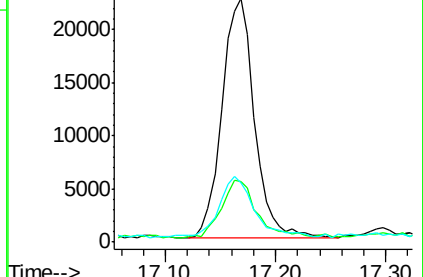
Tgt Ion:	276	Resp:	46779
Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	28.0
138	24.1	25.4	38.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E



Time-->

