

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071217\
 Data File : BF096716.D
 Acq On : 13 Jul 2017 3:32
 Operator : SJ/JU
 Sample : I4130-17
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

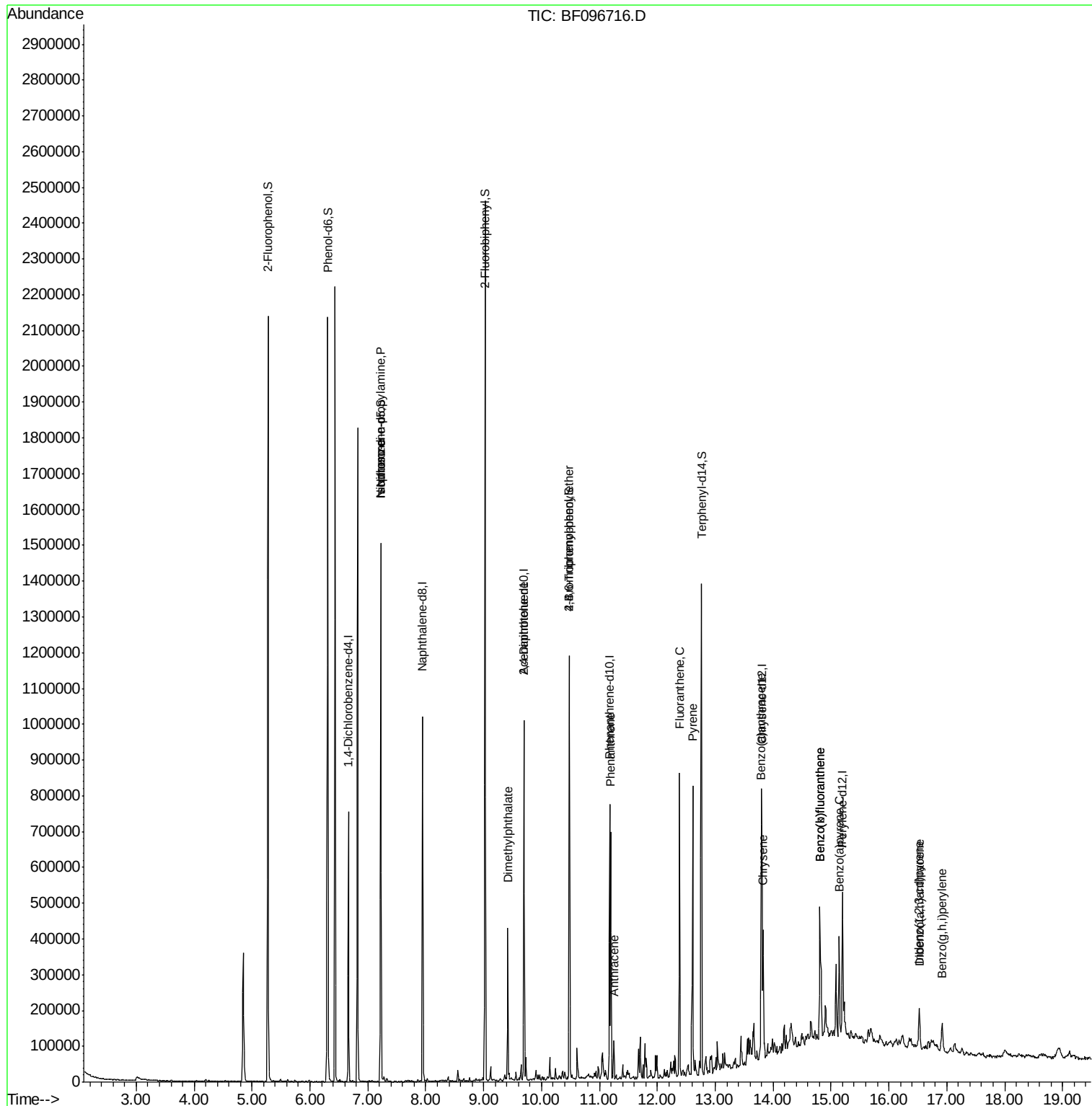
Quant Time: Jul 13 04:06:42 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 07 13:02:33 2017
 Response via : Initial Calibration

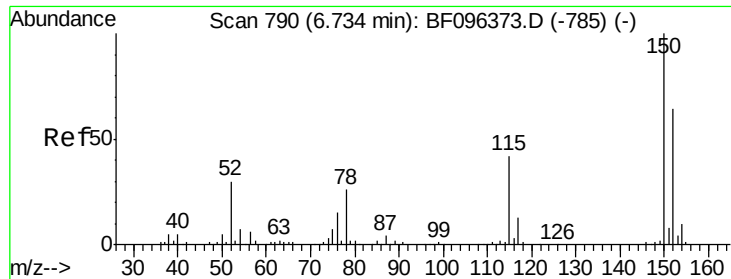
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	106811	20.00	ng	-0.04
21) Naphthalene-d8	7.95	136	447269	20.00	ng	-0.04
38) Acenaphthene-d10	9.70	164	182079	20.00	ng	-0.04
63) Phenanthrene-d10	11.17	188	262671	20.00	ng	-0.04
75) Chrysene-d12	13.80	240	182699	20.00	ng	-0.04
86) Perylene-d12	15.20	264	173019	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	604885	83.59	ng	-0.04
7) Phenol-d6	6.31	99	747371	84.01	ng	-0.04
23) Nitrobenzene-d5	7.23	82	432557	58.11	ng	-0.04
41) 2,4,6-Tribromophenol	10.49	330	128930	90.65	ng	-0.04
44) 2-Fluorobiphenyl	9.03	172	764152	71.76	ng	-0.04
78) Terphenyl-d14	12.76	244	433624	50.72	ng	-0.04
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	56817	10.72	ng	# 85
25) Isophorone	7.23	82	428693	29.71	ng	# 67
49) Dimethylphthalate	9.42	163	172085	12.66	ng	100
56) 2,4-Dinitrotoluene	9.70	165	24171	6.35	ng	# 33
66) 4-Bromophenyl-phenylether	10.48	248	8008	3.13	ng	# 1
70) Phenanthrene	11.20	178	232930	16.40	ng	97
71) Anthracene	11.25	178	37954	2.62	ng	97
74) Fluoranthene	12.39	202	339530	24.39	ng	97
77) Pyrene	12.61	202	309174	21.08	ng	100
80) Benzo(a)anthracene	13.79	228	145169	13.72	ng	98
82) Chrysene	13.83	228	133347	12.04	ng	98
85) Indeno(1,2,3-cd)pyrene	16.52	276	65980	7.54	ng	97
87) Benzo(b)fluoranthene	14.81	252	237060	21.87	ng	98
88) Benzo(k)fluoranthene	14.81	252	237060	24.44	ng	97
89) Benzo(a)pyrene	15.14	252	122095	12.61	ng	# 96
90) Dibenzo(a,h)anthracene	16.53	278	18731	2.46	ng	96
91) Benzo(a,h,i)perylene	16.92	276	57519	7.29	ng	97

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

```
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071217\  
Data File : BF096716.D  
Acq On    : 13 Jul 2017    3:32  
Operator  : SJ/JU  
Sample    : I4130-17  
Misc      :  
ALS Vial  : 29    Sample Multiplier: 1
```

Quant Time: Jul 13 04:06:42 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 07 13:02:33 2017
Response via : Initial Calibration



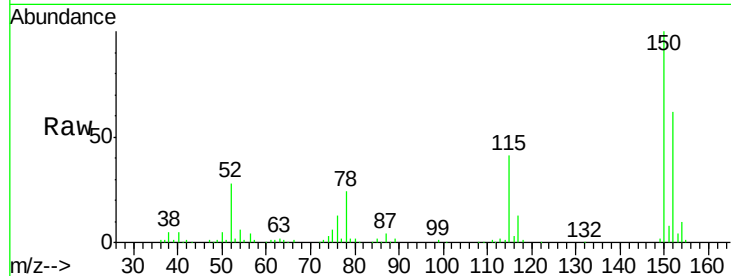


#1

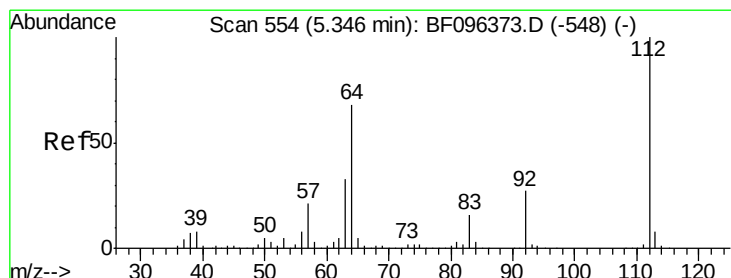
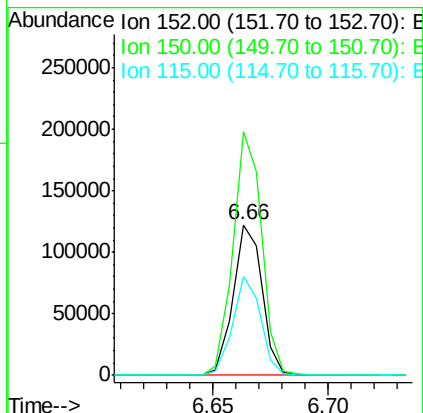
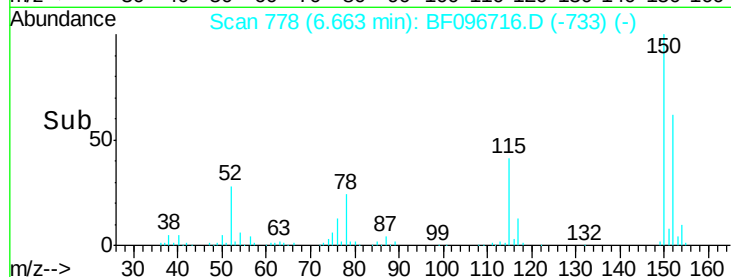
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.66 min Scan# 778
Delta R.T. -0.04 min
Lab File: BF096716.D
Acq: 13 Jul 2017 3:32

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 106811
Ion Ratio Lower Upper
152 100
150 161.6 126.2 189.2
115 65.5 52.2 78.2



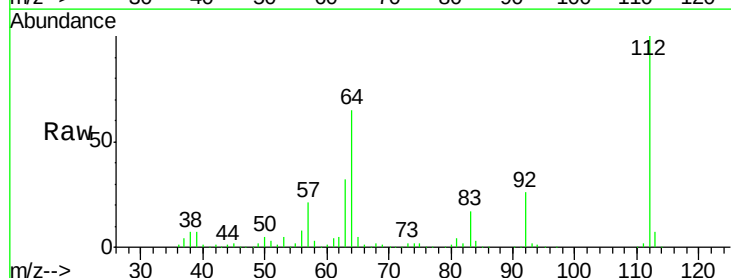
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



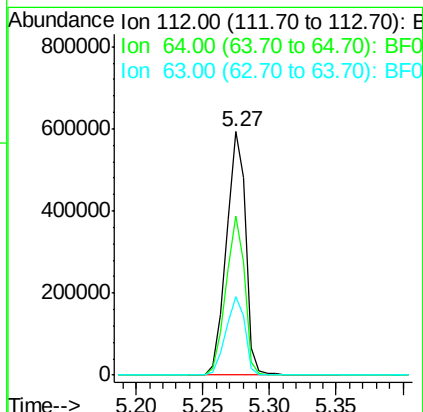
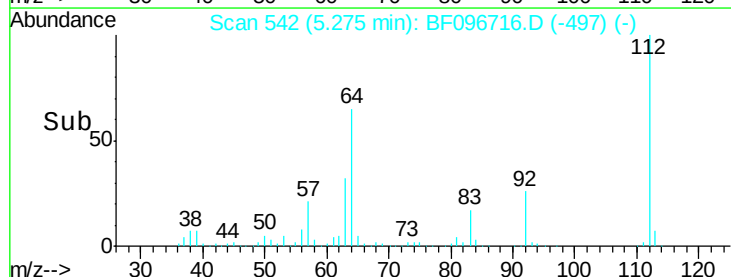
#5

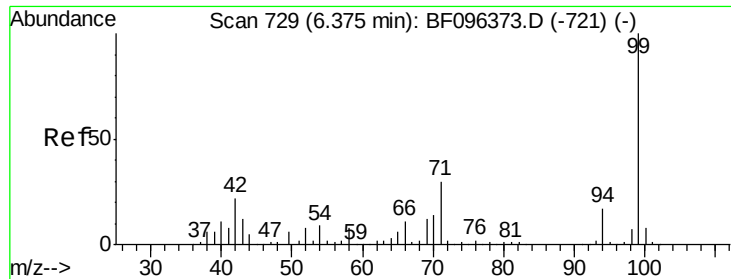
2-Fluorophenol
Concen: 83.59 ng
RT: 5.27 min Scan# 542
Delta R.T. -0.04 min
Lab File: BF096716.D
Acq: 13 Jul 2017 3:32

Tgt Ion:112 Resp: 604885
Ion Ratio Lower Upper
112 100
64 65.2 46.0 69.0
63 32.1 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: 84.01 ng

RT: 6.31 min Scan# 718

Delta R.T. -0.04 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

Instrument :

BNA_F

ClientSampled :

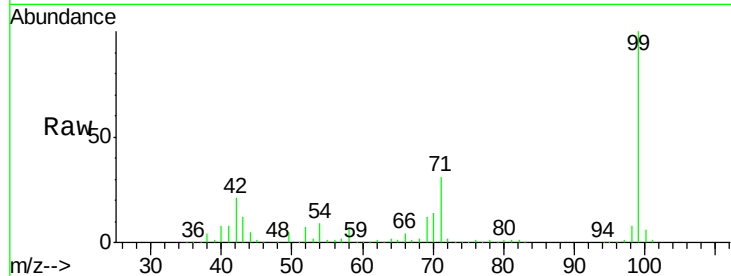
Tot Ion: 99 Resp: 747371

Ion Ratio Lower Upper

99 100

42 21.5 13.5 20.3#

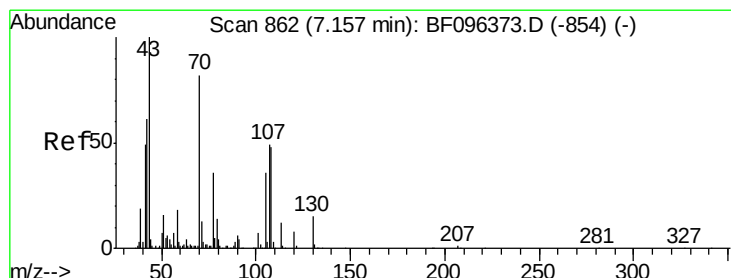
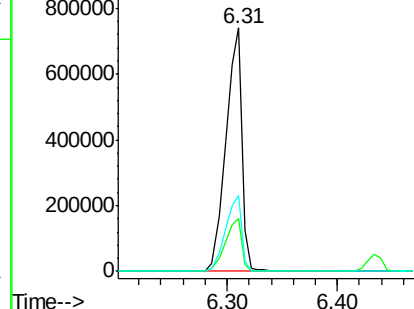
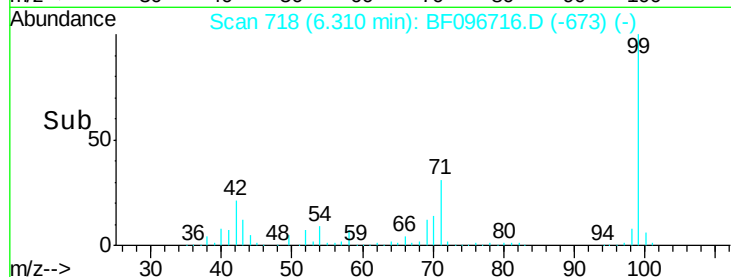
71 30.9 24.5 36.7



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: 10.72 ng

RT: 7.23 min Scan# 874

Delta R.T. 0.10 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

Tgt Ion: 70 Resp: 56817

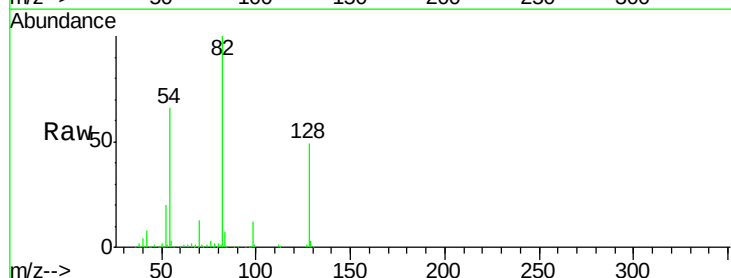
Ion Ratio Lower Upper

70 100

42 63.2 47.2 70.8

101 0.0 7.2 10.8#

130 2.1 15.9 23.9#

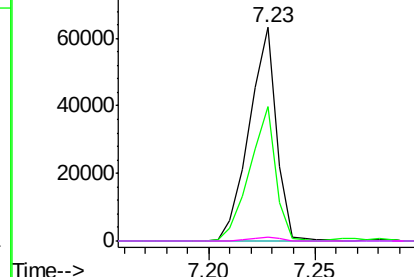
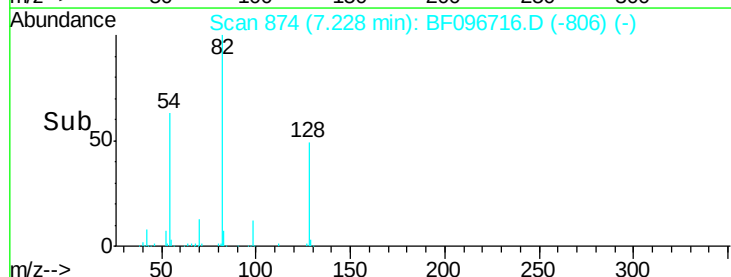


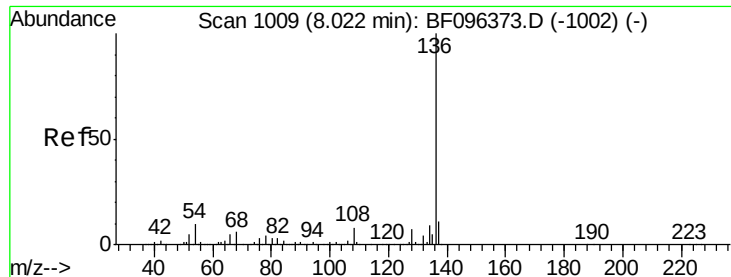
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

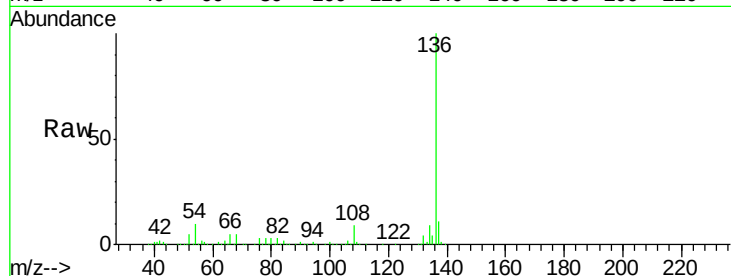




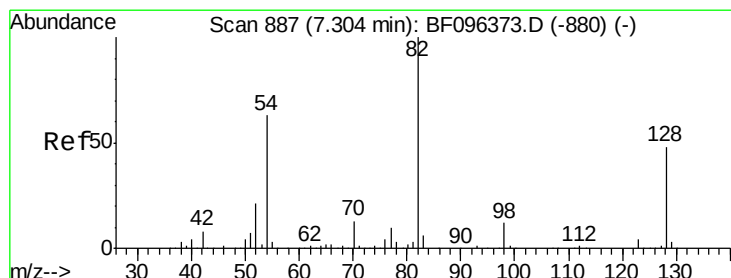
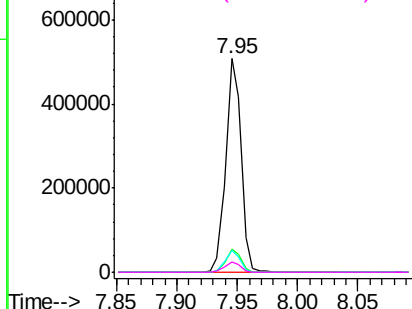
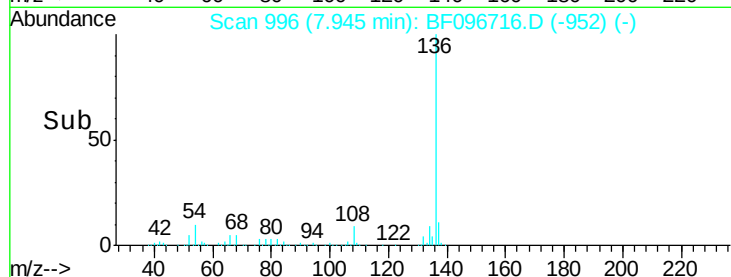
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.95 min Scan# 996
Delta R.T. -0.04 min
Lab File: BF096716.D
Acq: 13 Jul 2017 3:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	447269
Ion Ratio	Lower	Upper
136	100	
137	10.6	8.5 12.7
54	10.2	4.9 7.3#
68	5.0	4.1 6.1

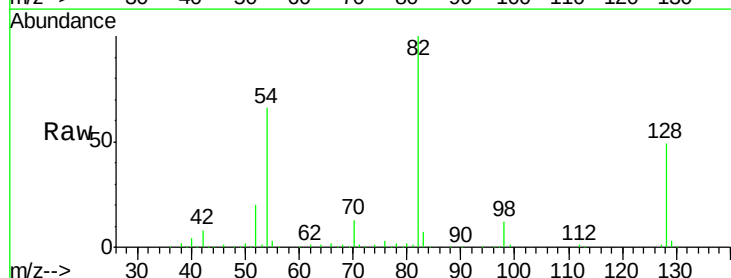


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

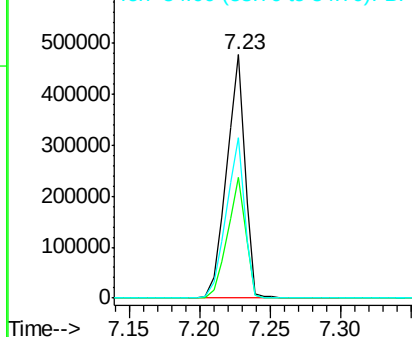
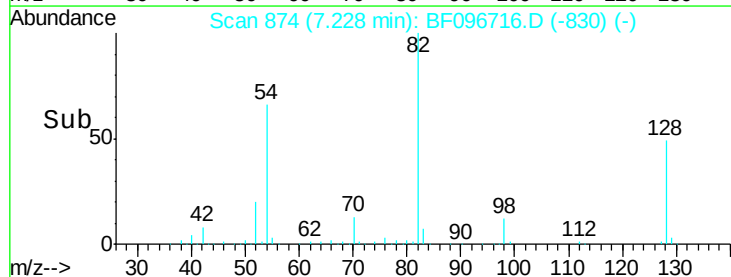


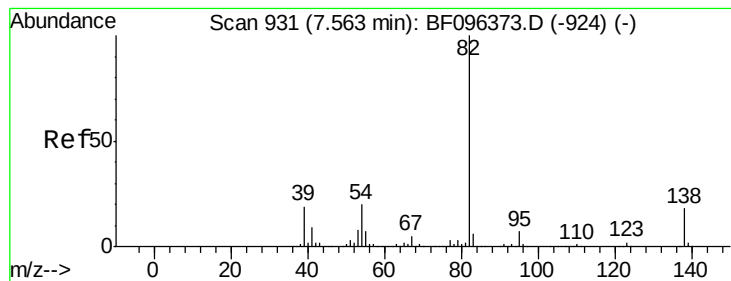
#23
Nitrobenzene-d5
Concen: 58.11 ng
RT: 7.23 min Scan# 874
Delta R.T. -0.04 min
Lab File: BF096716.D
Acq: 13 Jul 2017 3:32

Tgt Ion: 82	Resp:	432557
Ion Ratio	Lower	Upper
82	100	
128	49.5	34.0 51.0
54	65.7	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





#25

Isophorone

Concen: 29.71 ng

RT: 7.23 min Scan# 874

Delta R.T. -0.30 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

Instrument :

BNA_F

ClientSampleId :

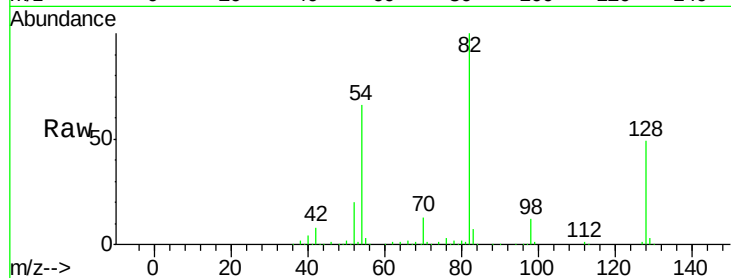
Tot Ion: 82 Resp: 428693

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): E

7.23

400000

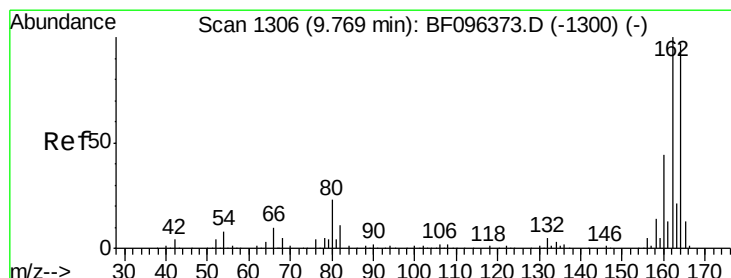
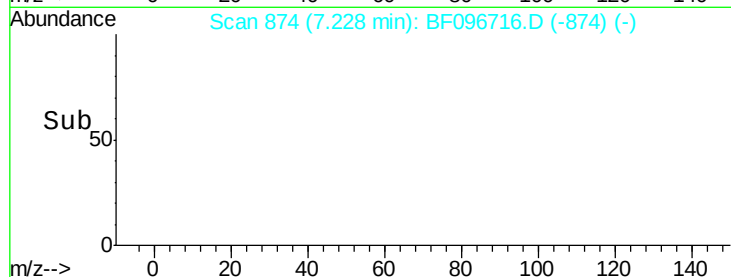
300000

200000

100000

0

Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.04 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

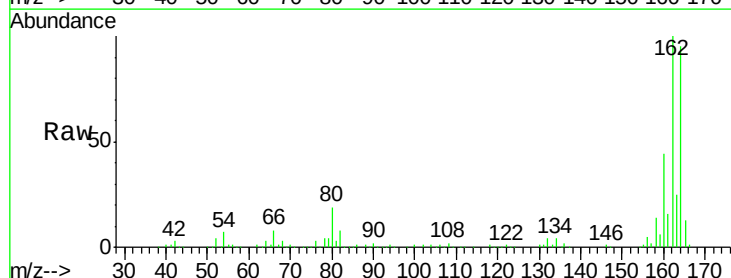
Tgt Ion: 164 Resp: 182079

Ion Ratio Lower Upper

164 100

162 105.3 82.6 123.8

160 46.5 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

9.70

250000

200000

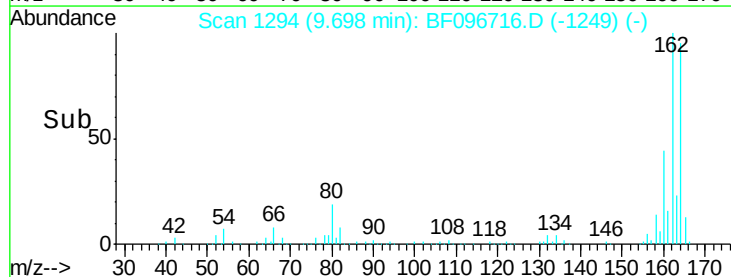
150000

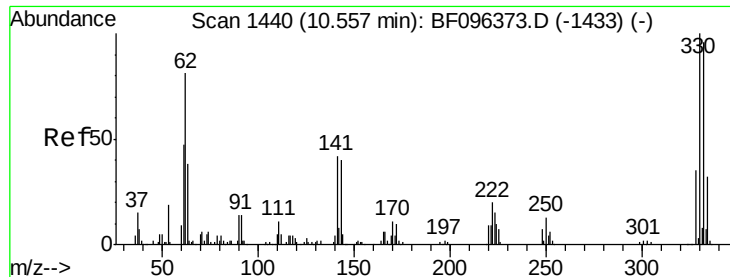
100000

50000

0

Time-->

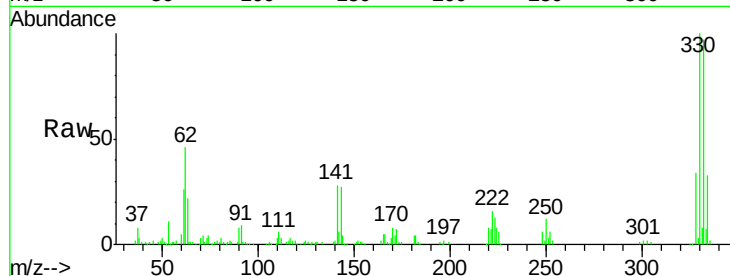




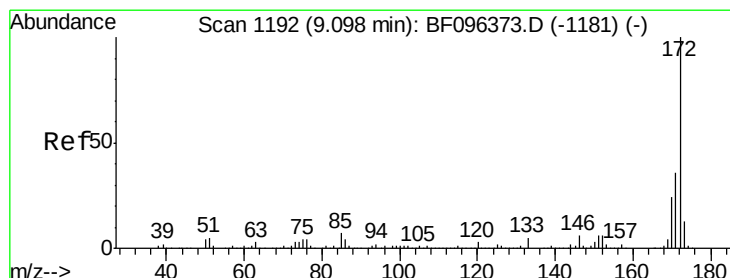
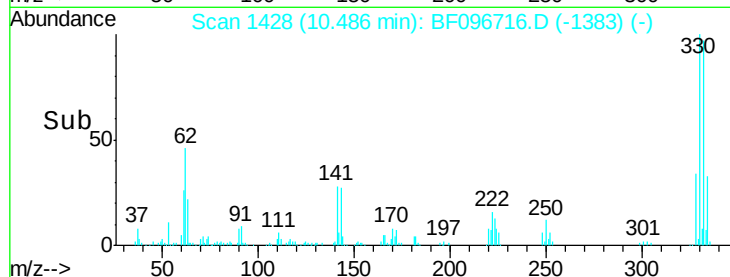
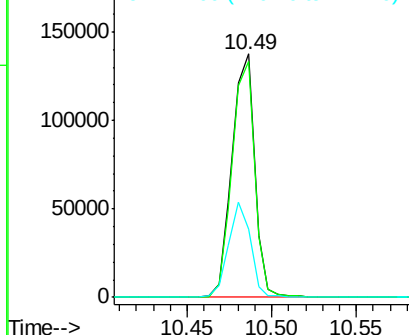
#41
 2,4,6-Tribromophenol
 Concen: 90.65 ng
 RT: 10.49 min Scan# 1428
 Delta R.T. -0.04 min
 Lab File: BF096716.D
 Acq: 13 Jul 2017 3:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 128930
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.6 115.0
 141 37.6 31.4 47.2

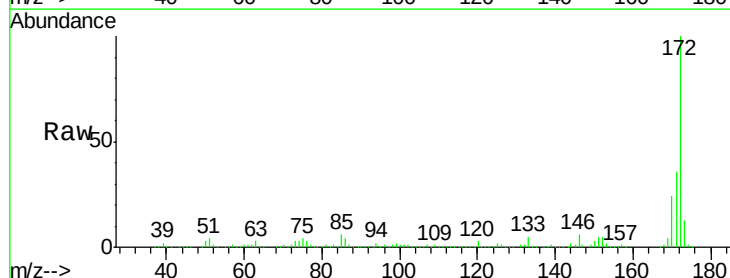


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

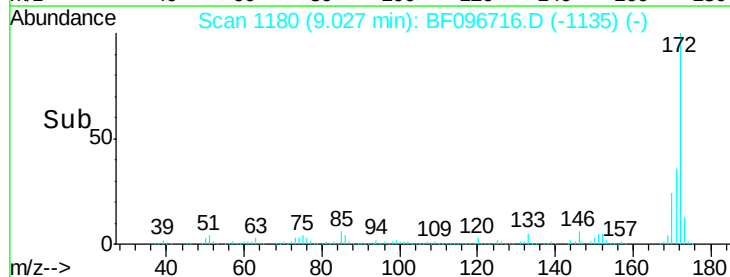
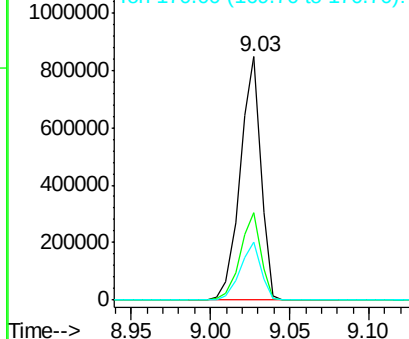


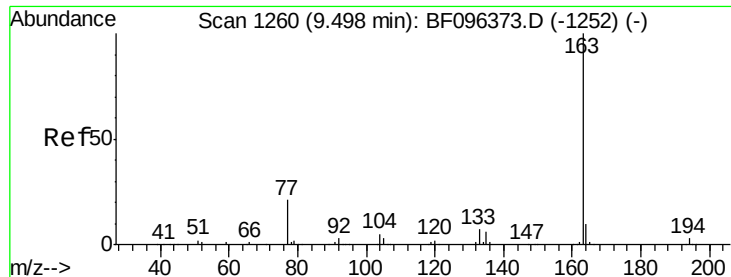
#44
 2-Fluorobiphenyl
 Concen: 71.76 ng
 RT: 9.03 min Scan# 1180
 Delta R.T. -0.04 min
 Lab File: BF096716.D
 Acq: 13 Jul 2017 3:32

Tgt Ion:172 Resp: 764152
 Ion Ratio Lower Upper
 172 100
 171 35.7 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: 12.66 ng

RT: 9.42 min Scan# 1246

Delta R.T. -0.05 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

Instrument :

BNA_F

ClientSampled :

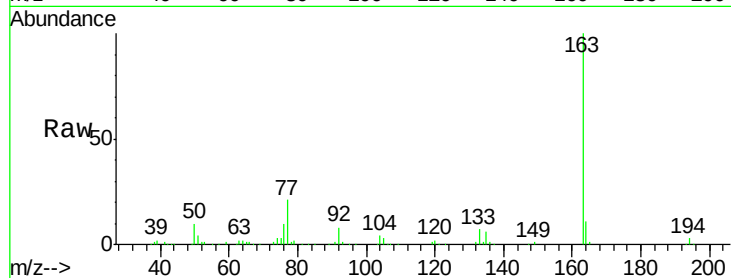
Tot Ion:163 Resp: 172085

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

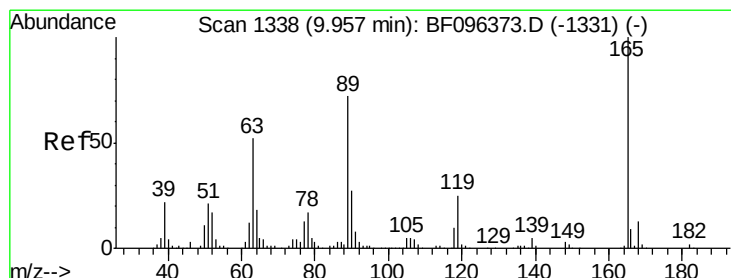
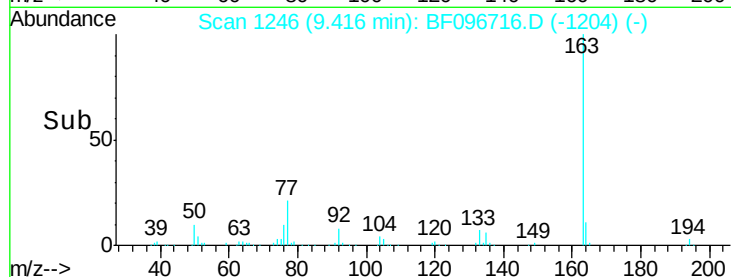
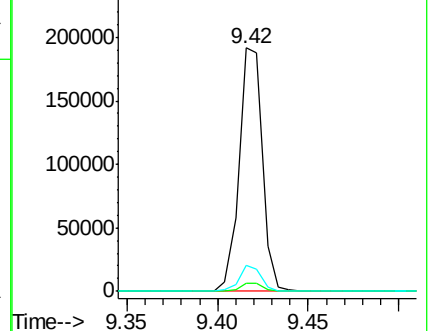
164 10.6 8.4 12.6



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



#56

2,4-Dinitrotoluene

Concen: 6.35 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.23 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

Tgt Ion:165 Resp: 24171

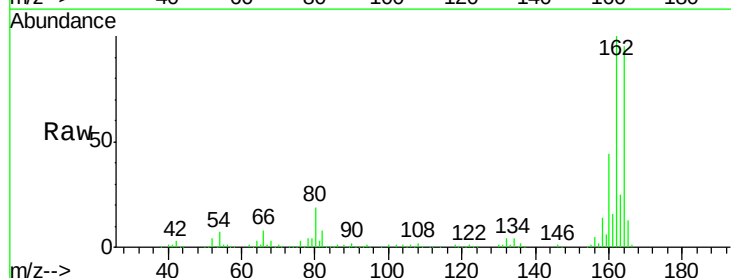
Ion Ratio Lower Upper

165 100

63 1.3 25.4 38.0#

89 1.3 46.4 69.6#

182 0.0 1.8 2.6#

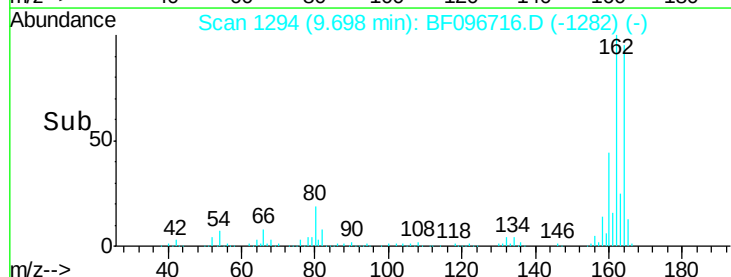
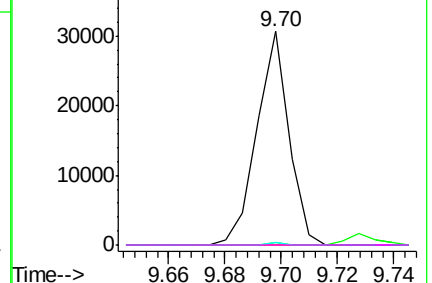


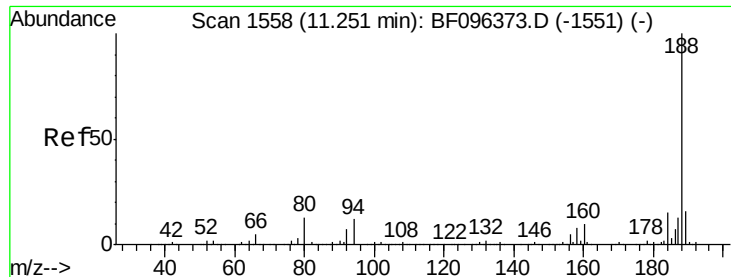
Abundance Ion 165.00 (164.70 to 165.70): E

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

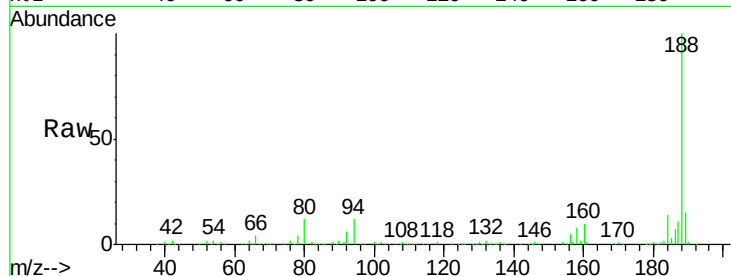




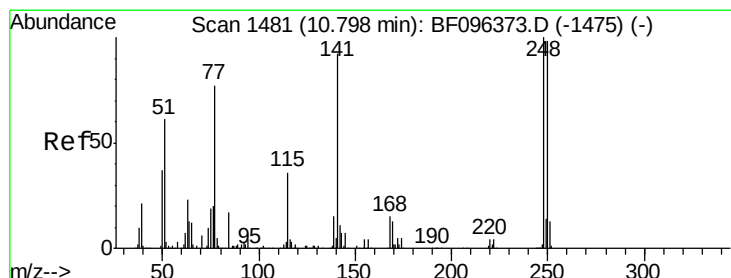
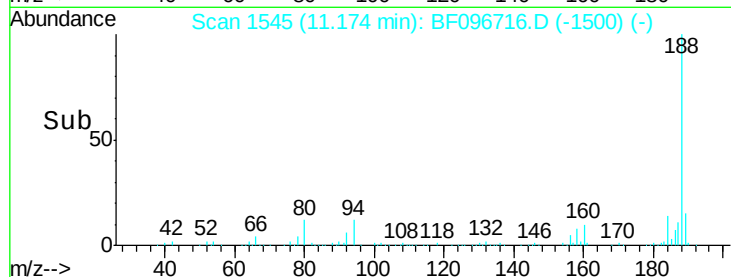
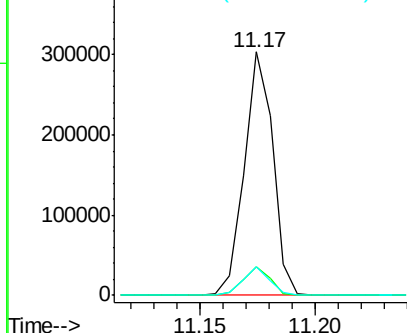
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.17 min Scan# 1545
Delta R.T. -0.04 min
Lab File: BF096716.D
Acq: 13 Jul 2017 3:32

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 262671
Ion Ratio Lower Upper
188 100
94 11.5 9.4 14.2
80 11.7 10.2 15.2

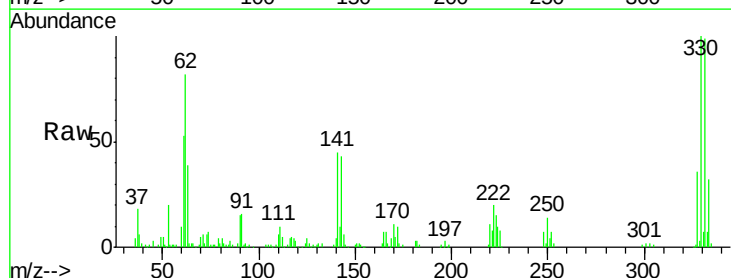


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

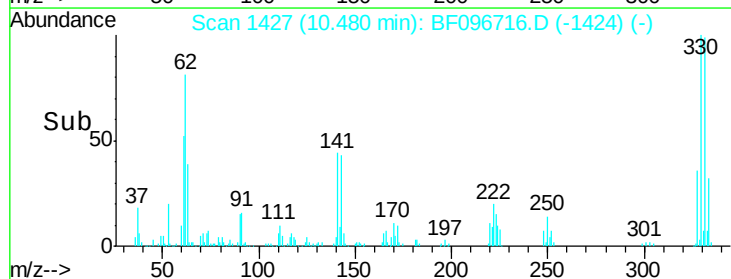
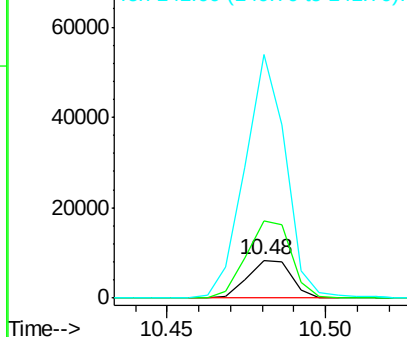


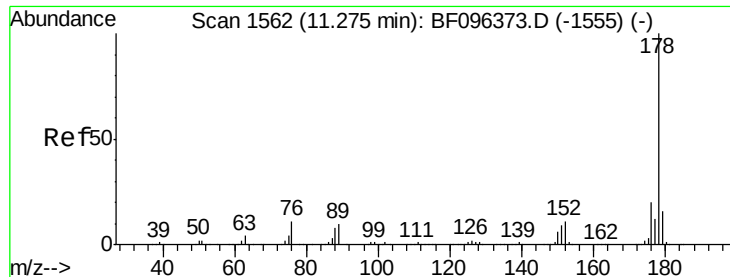
#66
4-Bromophenyl-phenylether
Concen: 3.13 ng
RT: 10.48 min Scan# 1427
Delta R.T. -0.28 min
Lab File: BF096716.D
Acq: 13 Jul 2017 3:32

Tgt Ion:248 Resp: 8008
Ion Ratio Lower Upper
248 100
250 204.5 76.8 115.2#
141 642.1 68.6 103.0#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

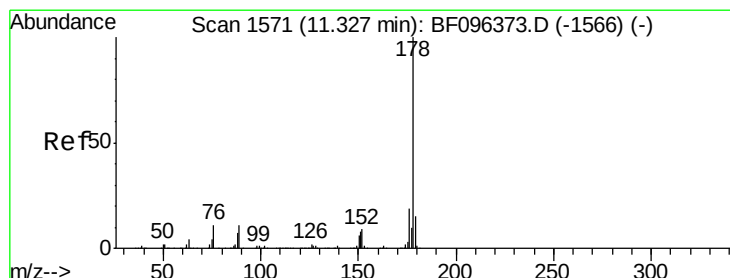
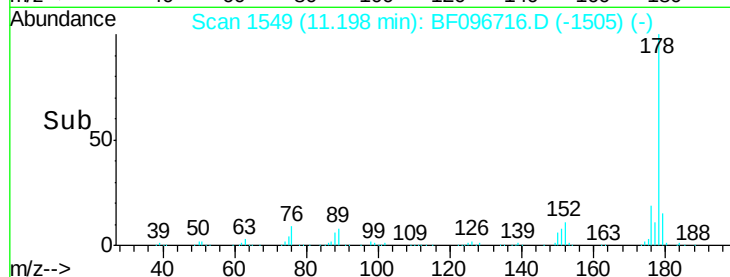
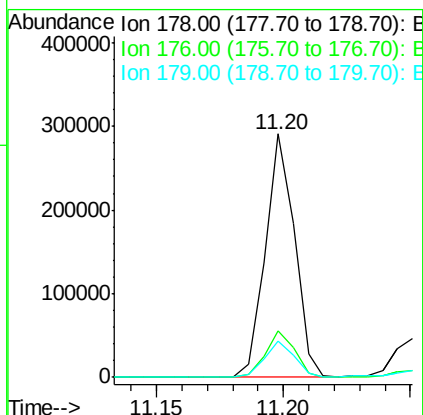
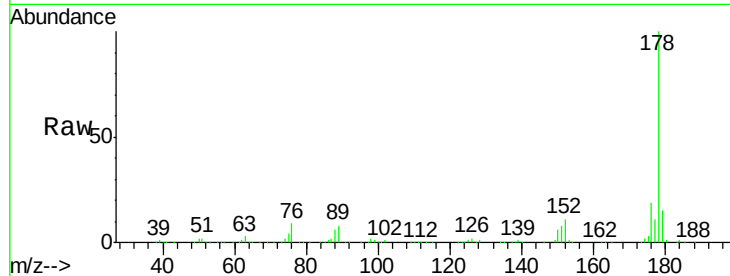




#70
 Phenanthrene
 Concen: 16.40 ng
 RT: 11.20 min Scan# 1549
 Delta R.T. -0.04 min
 Lab File: BF096716.D
 Acq: 13 Jul 2017 3:32

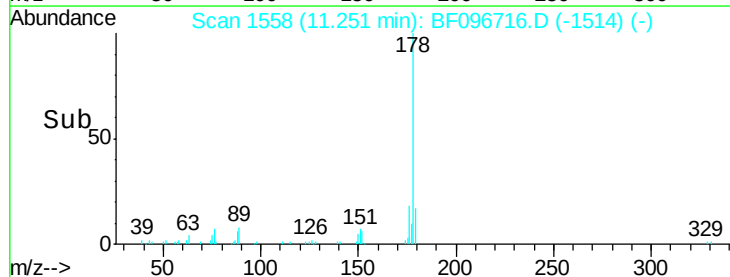
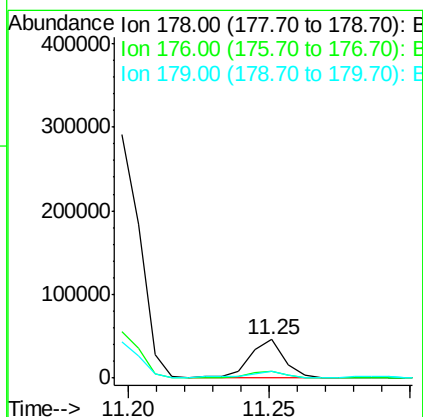
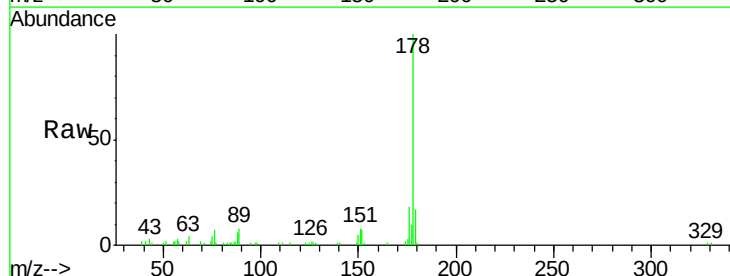
Instrument :
 BNA_F
 ClientSampleId :

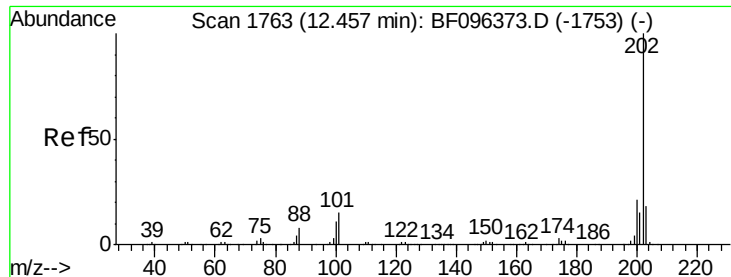
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	16.2	24.4
179	14.7	12.6	19.0



#71
 Anthracene
 Concen: 2.62 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.04 min
 Lab File: BF096716.D
 Acq: 13 Jul 2017 3:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.8	23.8
179	16.8	12.7	19.1





#74

Fluoranthene

Concen: 24.39 ng

RT: 12.39 min Scan# 1751

Delta R.T. -0.04 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

Instrument :

BNA_F

ClientSampleId :

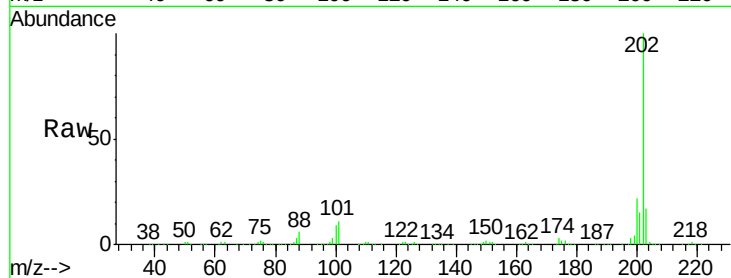
Tot Ion:202 Resp: 339530

Ion Ratio Lower Upper

202 100

101 11.4 0.0 33.2

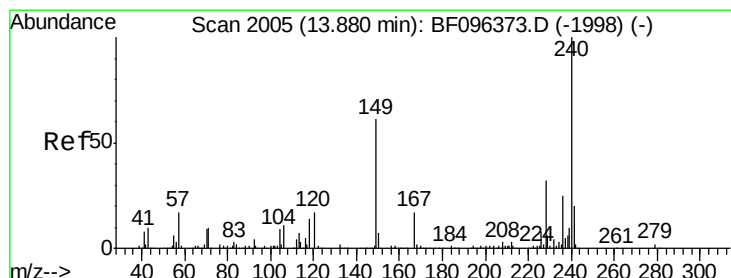
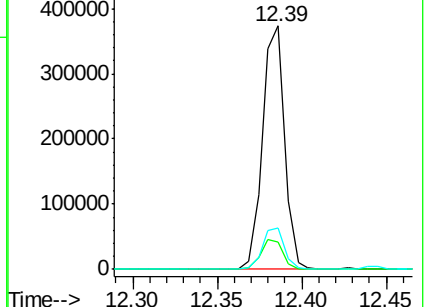
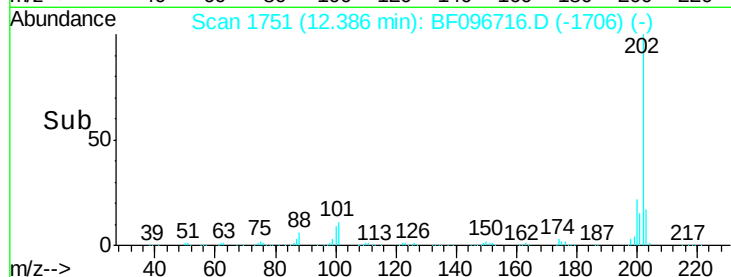
203 17.1 0.0 38.1



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: 13.80 min Scan# 1992

Delta R.T. -0.04 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

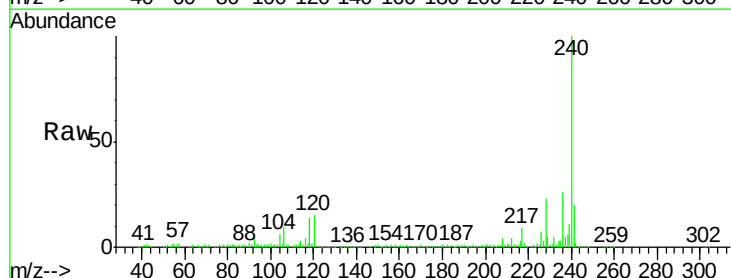
Tgt Ion:240 Resp: 182699

Ion Ratio Lower Upper

240 100

120 15.0 5.8 8.8#

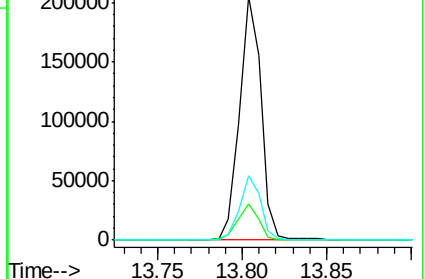
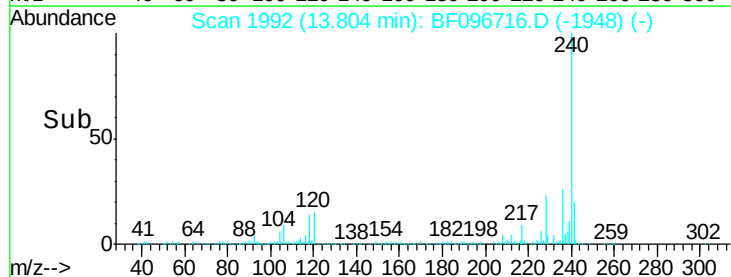
236 26.2 20.5 30.7

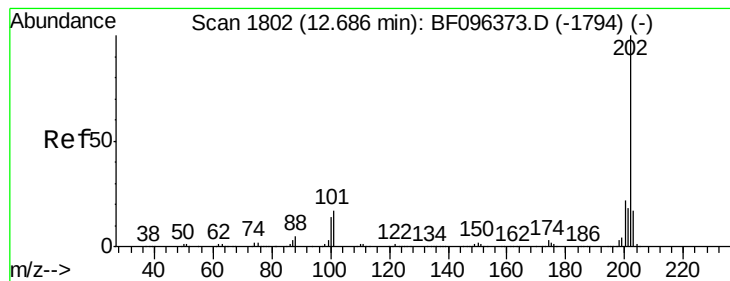


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 21.08 ng

RT: 12.61 min Scan# 1789

Delta R.T. -0.04 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

Instrument :

BNA_F

ClientSampled :

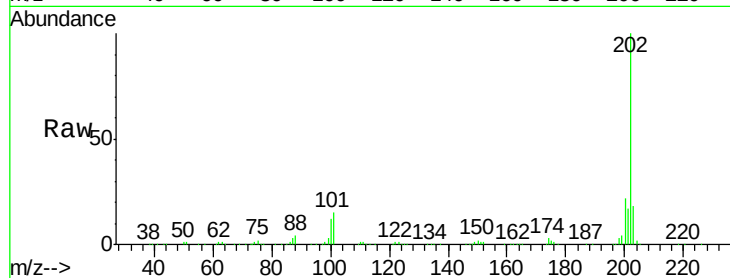
Tot Ion:202 Resp: 309174

Ion Ratio Lower Upper

202 100

200 22.0 17.6 26.4

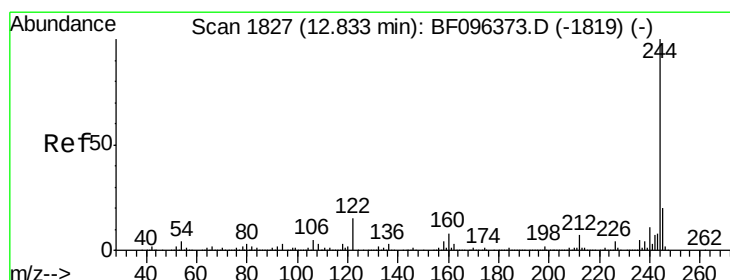
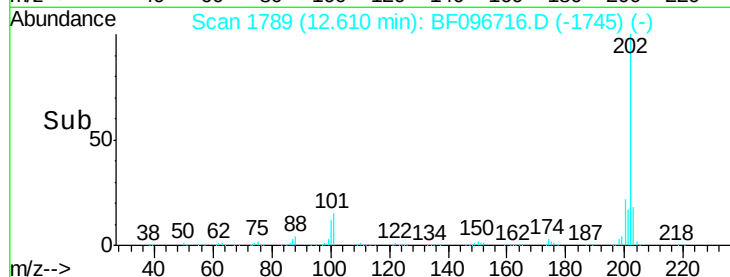
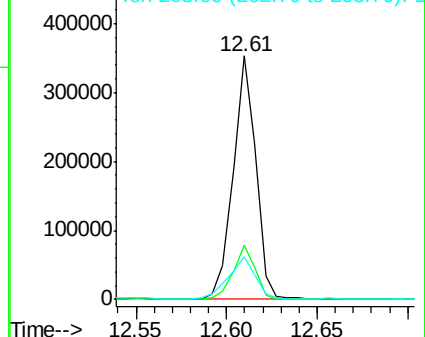
203 17.8 14.4 21.6



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: 50.72 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.04 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

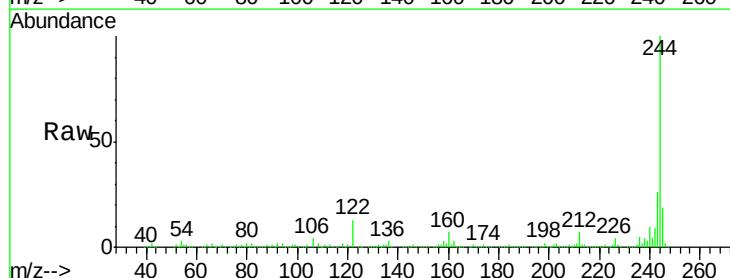
Tgt Ion:244 Resp: 433624

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

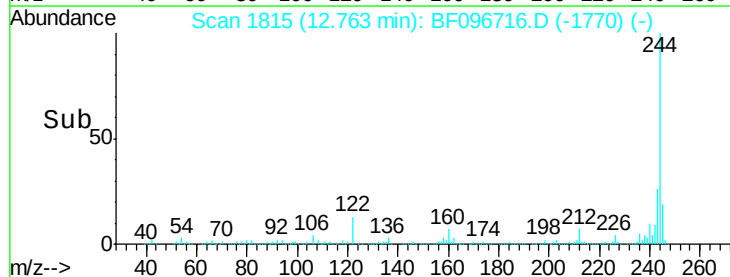
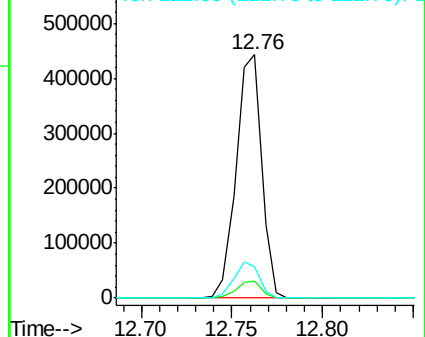
122 12.6 10.3 15.5

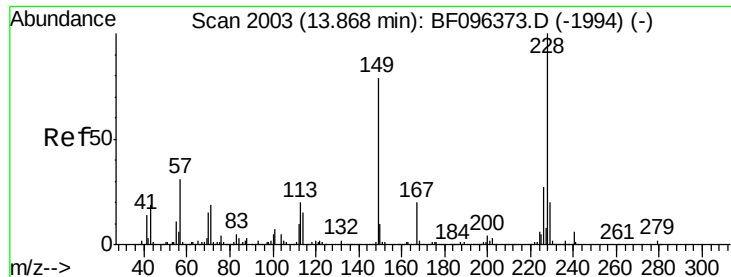


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 13.72 ng

RT: 13.79 min Scan# 1990

Delta R.T. -0.04 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

Instrument :

BNA_F

ClientSampleId :

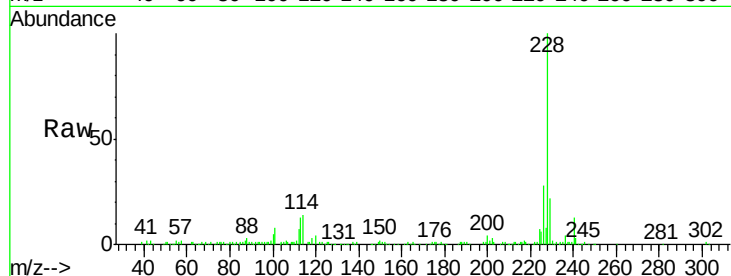
Tot Ion:228 Resp: 145169

Ion Ratio Lower Upper

228 100

226 28.4 22.6 33.8

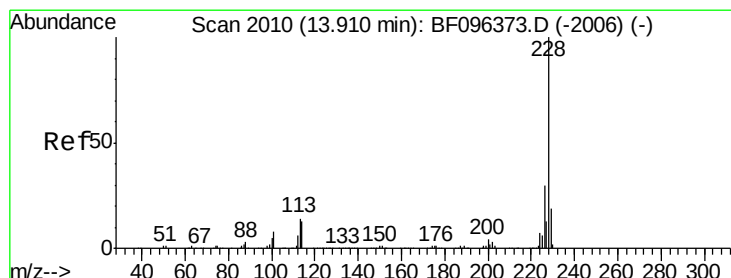
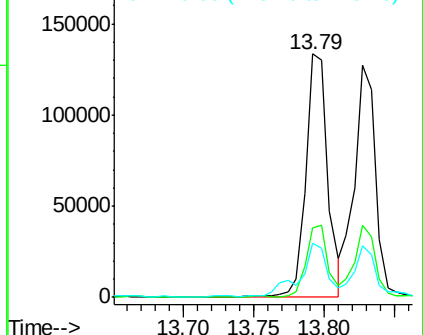
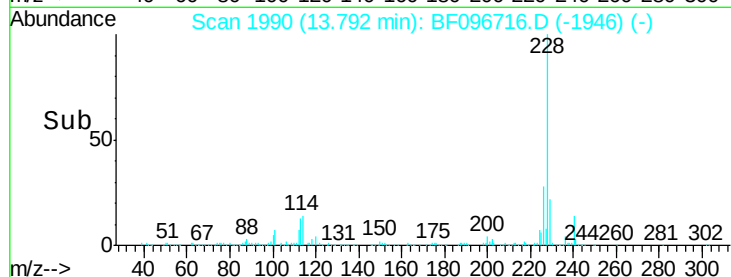
229 22.0 16.3 24.5



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: 12.04 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.05 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

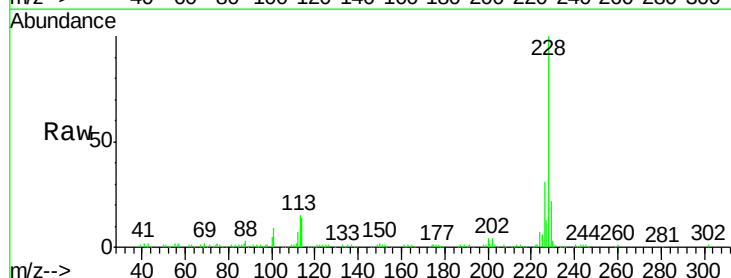
Tgt Ion:228 Resp: 133347

Ion Ratio Lower Upper

228 100

226 30.9 24.9 37.3

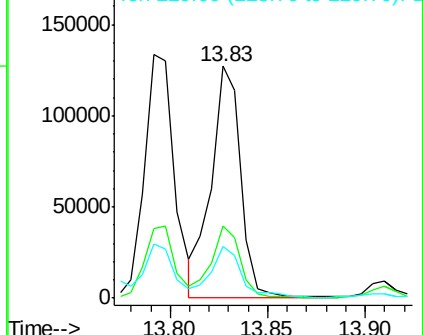
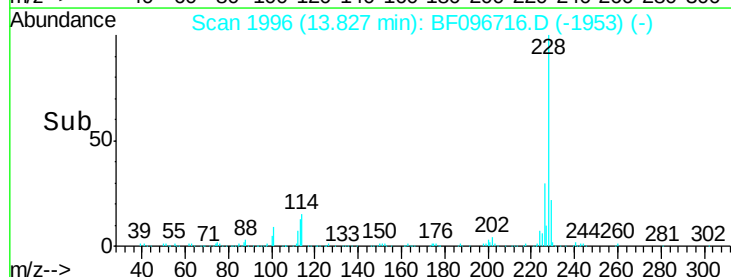
229 22.3 15.8 23.6

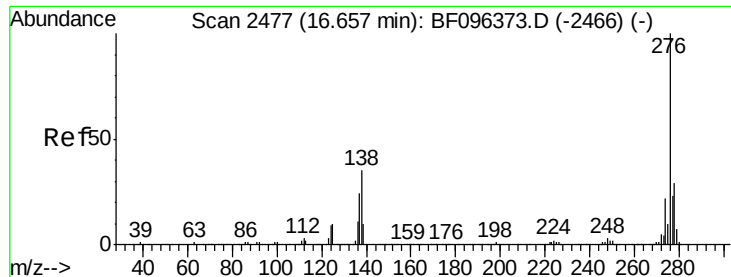


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

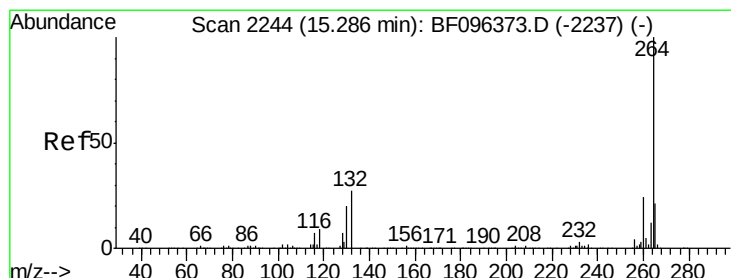
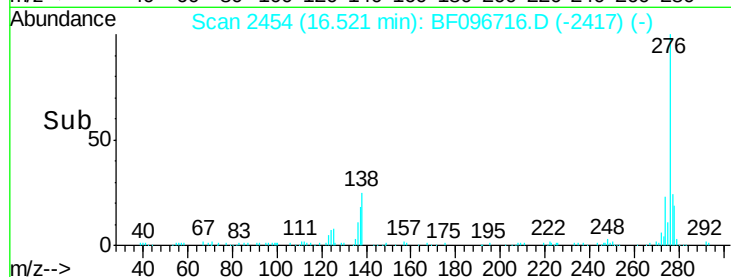
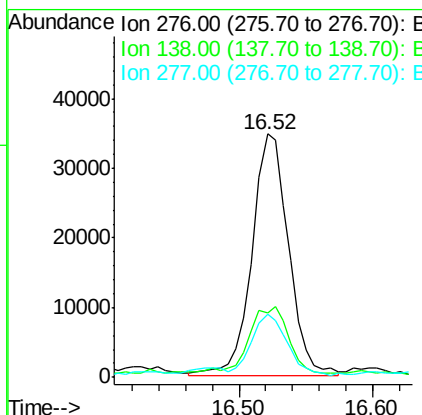
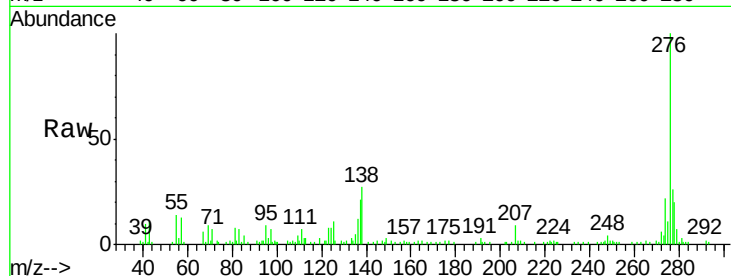




#85
Indeno(1,2,3-cd)pyrene
Concen: 7.54 ng
RT: 16.52 min Scan# 2454
Delta R.T. -0.08 min
Lab File: BF096716.D
Acq: 13 Jul 2017 3:32

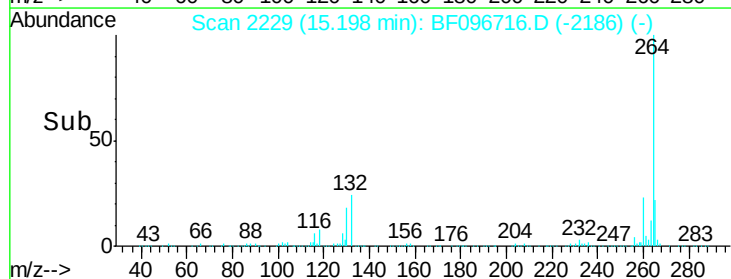
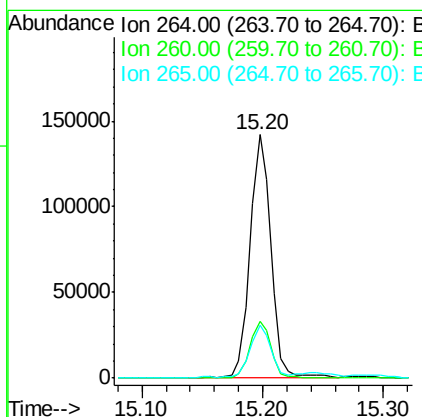
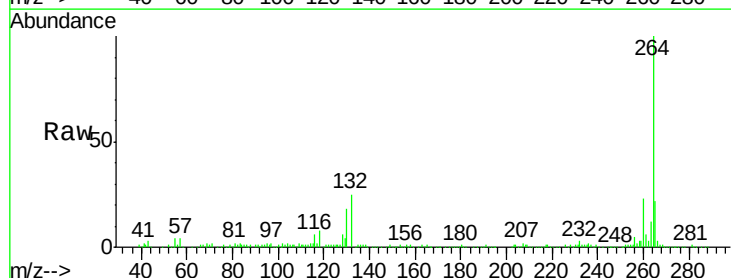
Instrument :
BNA_F
ClientSampleId :

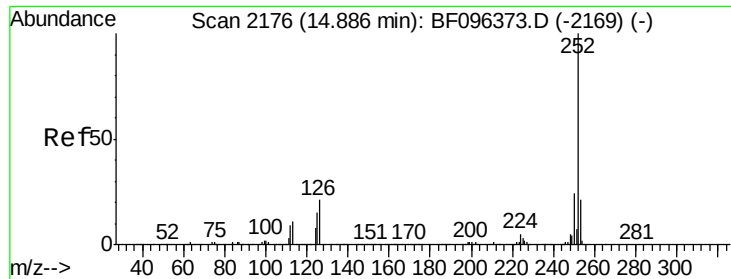
Tot Ion	Ratio	Lower	Upper
276	100		
138	32.7	27.8	41.6
277	24.3	20.2	30.4



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.20 min Scan# 2229
Delta R.T. -0.05 min
Lab File: BF096716.D
Acq: 13 Jul 2017 3:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	21.9	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 21.87 ng

RT: 14.81 min Scan# 2163

Delta R.T. -0.04 min

Lab File: BF096716.D

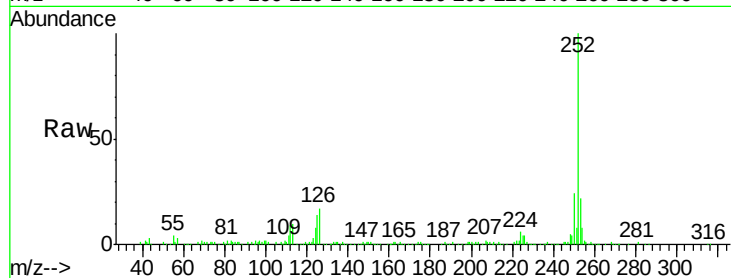
Acq: 13 Jul 2017 3:32

Instrument :

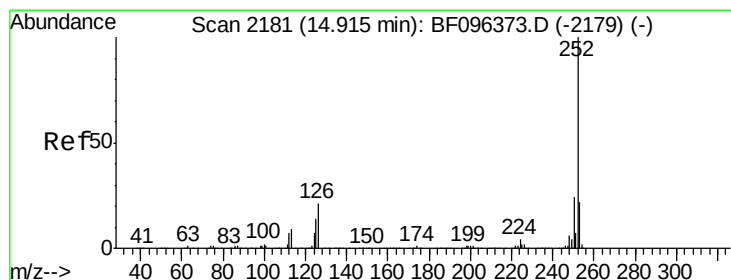
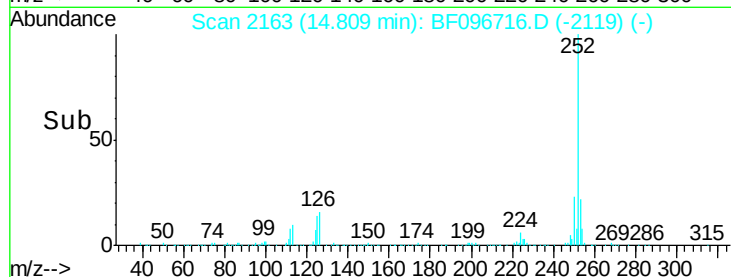
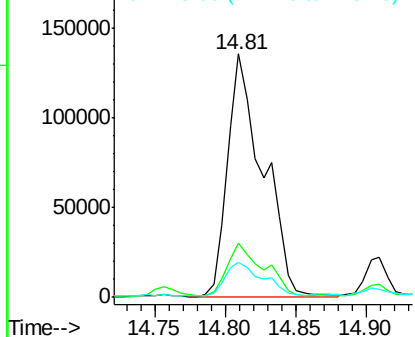
BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	237060
Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	14.4	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: 24.44 ng

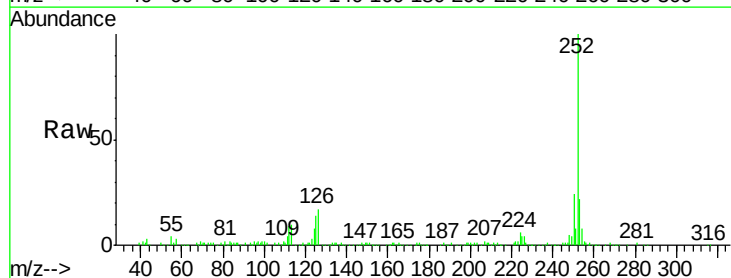
RT: 14.81 min Scan# 2163

Delta R.T. -0.07 min

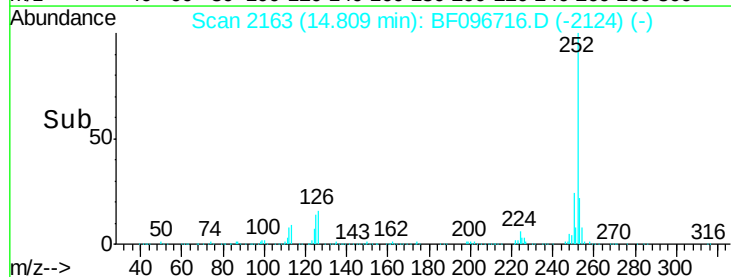
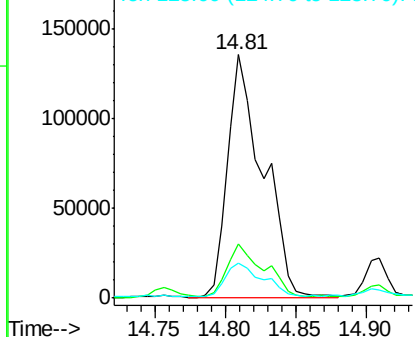
Lab File: BF096716.D

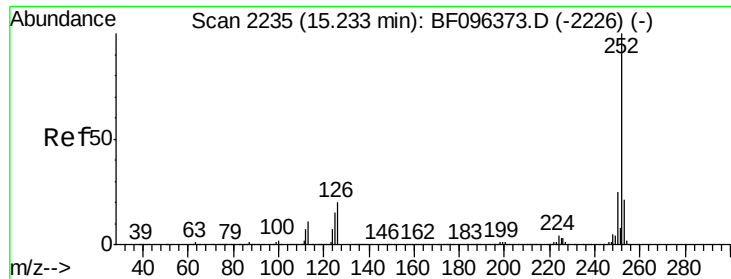
Acq: 13 Jul 2017 3:32

Tgt Ion:	252	Resp:	237060
Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.4	27.6
125	14.4	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: 12.61 ng

RT: 15.14 min Scan# 2219

Delta R.T. -0.05 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

Instrument :

BNA_F

ClientSampleId :

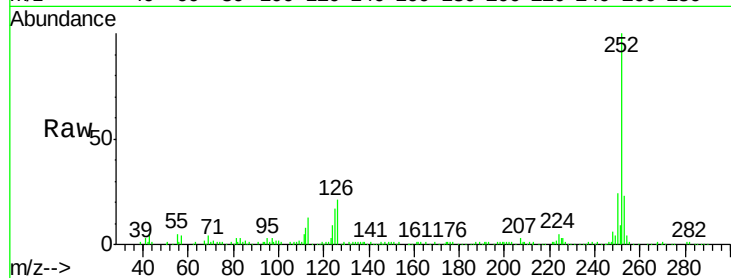
Tot Ion:252 Resp: 122095

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

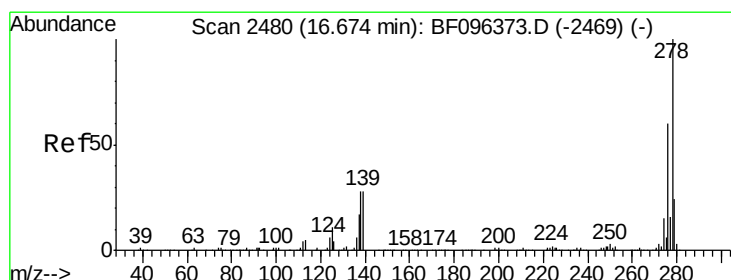
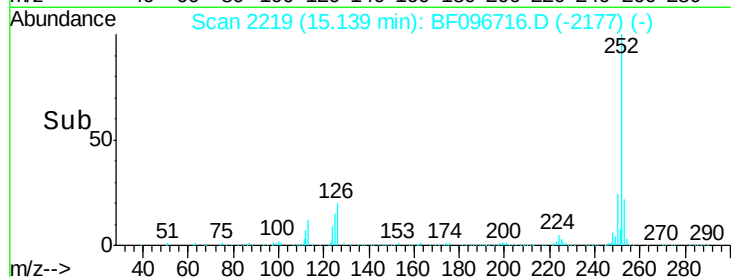
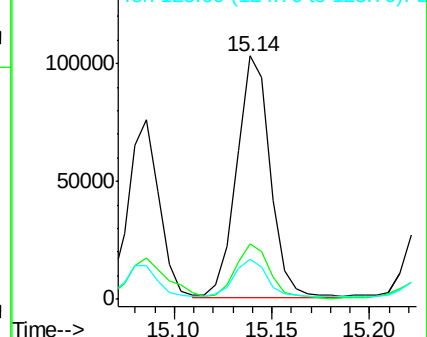
125 16.6 11.0 16.4#



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



#90

Dibenzo(a,h)anthracene

Concen: 2.46 ng

RT: 16.53 min Scan# 2456

Delta R.T. -0.08 min

Lab File: BF096716.D

Acq: 13 Jul 2017 3:32

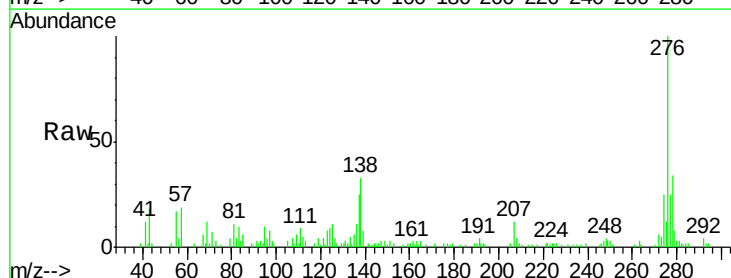
Tgt Ion:278 Resp: 18731

Ion Ratio Lower Upper

278 100

139 24.4 16.6 24.8

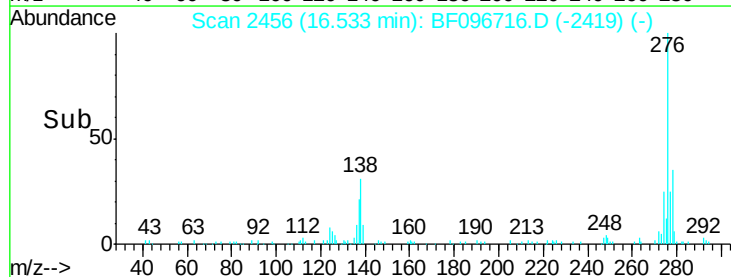
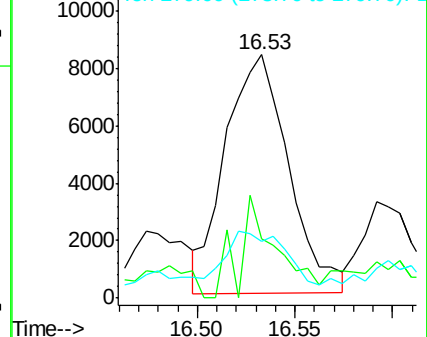
279 23.4 19.3 28.9

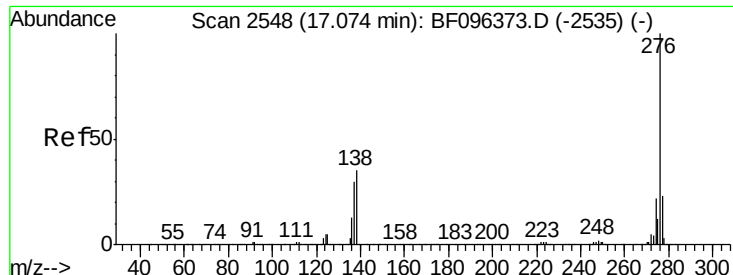


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 7.29 ng
 RT: 16.92 min Scan# 2522
 Delta R.T. -0.08 min
 Lab File: BF096716.D
 Acq: 13 Jul 2017 3:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	276	Resp:	57519
Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	28.0
138	34.5	25.4	38.0

