

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070317\
 Data File : BF096436.D
 Acq On : 3 Jul 2017 12:56
 Operator : SJ/MA
 Sample : I3908-04RE 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 03 16:14:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 03 01:43:12 2017
 Response via : Initial Calibration

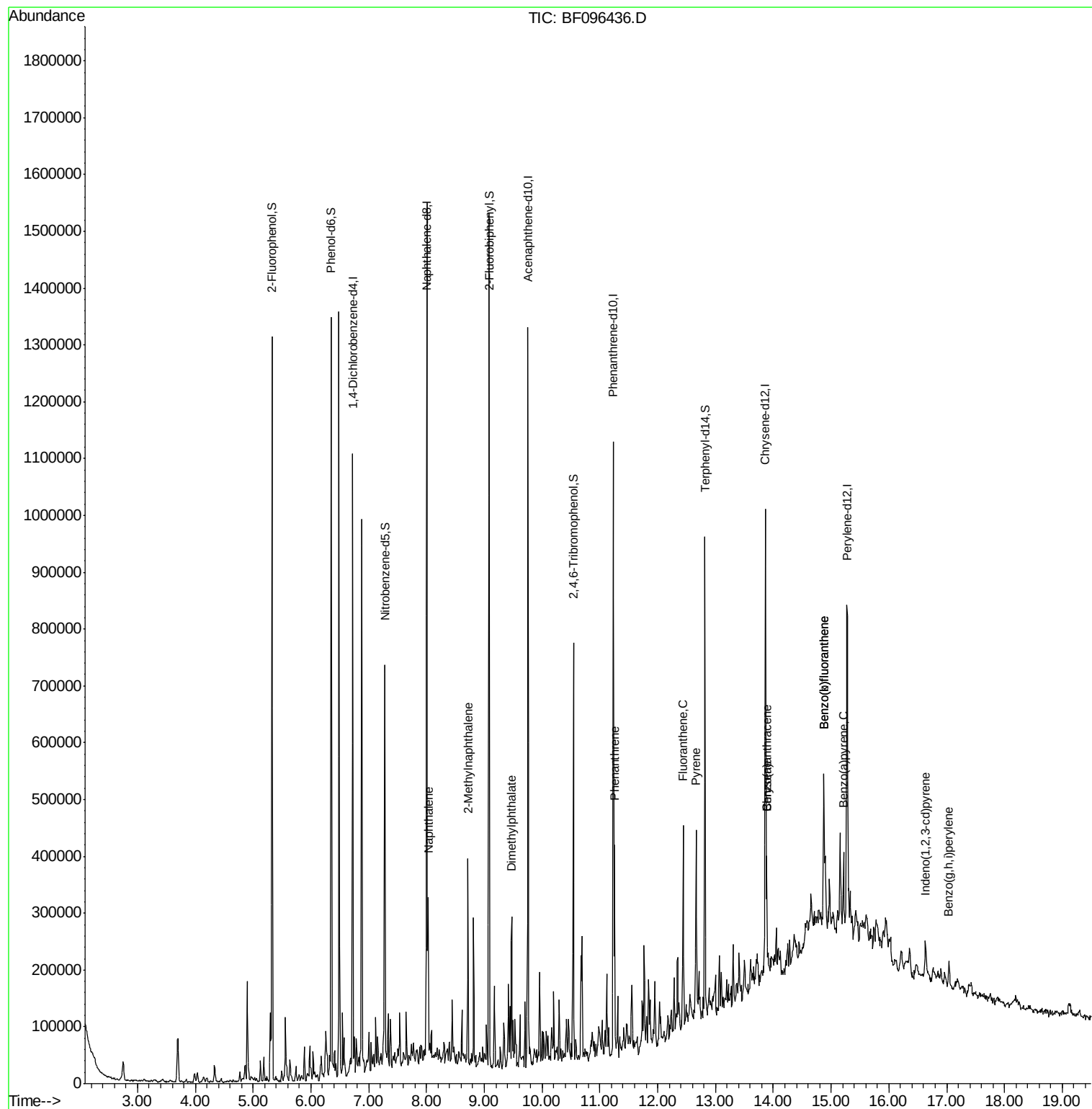
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	141817	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	584371	20.00	ng	-0.02
38) Acenaphthene-d10	9.76	164	234444	20.00	ng	-0.01
63) Phenanthrene-d10	11.23	188	372702	20.00	ng	-0.02
75) Chrysene-d12	13.86	240	249629	20.00	ng	-0.02
86) Perylene-d12	15.28	264	254084	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	330233	34.37	ng	-0.02
7) Phenol-d6	6.35	99	406194	34.39	ng	-0.02
23) Nitrobenzene-d5	7.28	82	207917	21.38	ng	-0.02
41) 2,4,6-Tribromophenol	10.54	330	68223	37.25	ng	-0.02
44) 2-Fluorobiphenyl	9.08	172	414607	30.24	ng	-0.02
78) Terphenyl-d14	12.82	244	232789	19.93	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.03	128	110572	4.01	ng	99
37) 2-Methylnaphthalene	8.72	142	88056	5.01	ng	98
49) Dimethylphthalate	9.47	163	94215	5.38	ng	99
70) Phenanthrene	11.26	178	120078	5.96	ng	98
74) Fluoranthene	12.44	202	138104	6.99	ng	99
77) Pyrene	12.67	202	123344	6.16	ng	98
80) Benzo(a)anthracene	13.89	228	83815	5.80	ng	96
82) Chrysene	13.89	228	83815	5.54	ng	97
85) Indeno(1,2,3-cd)pyrene	16.63	276	35132	2.94	ng	95
87) Benzo(b)fluoranthene	14.87	252	159084	9.99	ng	# 96
88) Benzo(k)fluoranthene	14.87	252	159084	11.17	ng	99
89) Benzo(a)pyrene	15.22	252	58360	4.11	ng	# 94
91) Benzo(a,h,i)perylene	17.04	276	33378	2.88	ng	100

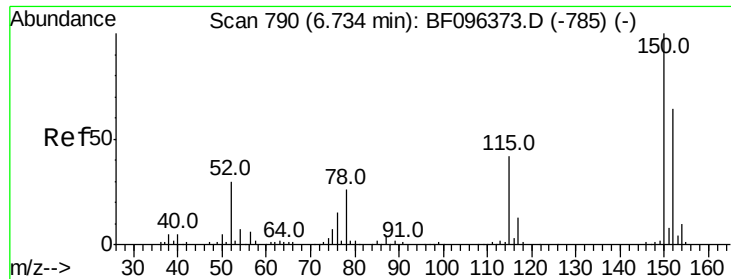
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.72 min Scan# 788

Delta R.T. -0.01 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

Instrument :

BNA_F

ClientSampleId :

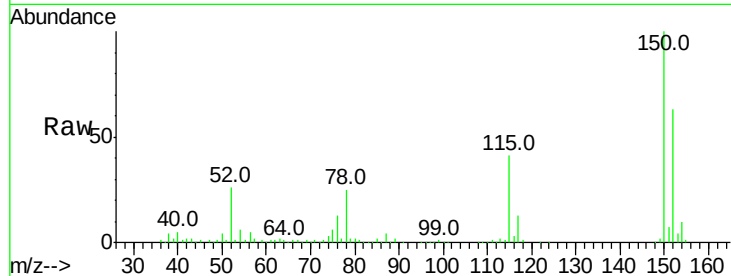
Tot Ion:152 Resp: 141817

Ion Ratio Lower Upper

152 100

150 159.3 126.2 189.2

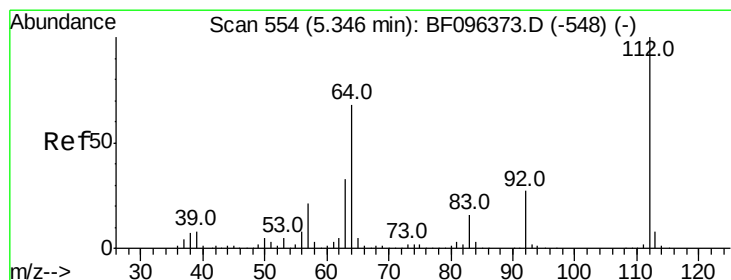
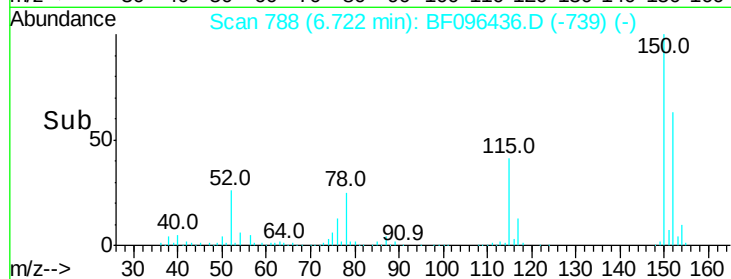
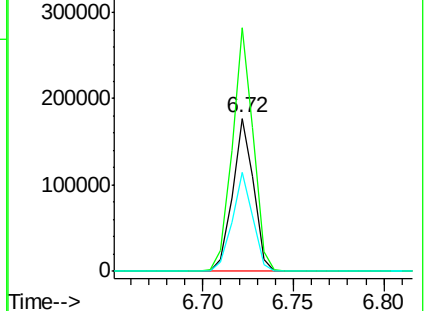
115 64.6 52.2 78.2



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: 34.37 ng

RT: 5.33 min Scan# 551

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

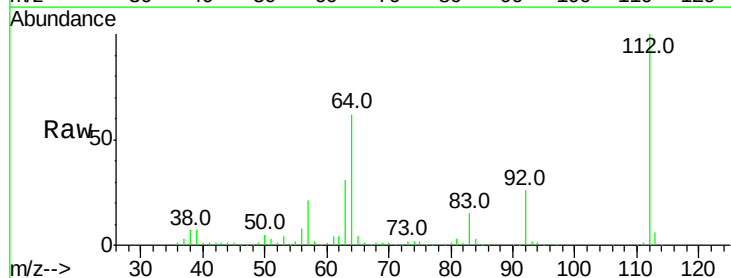
Tgt Ion:112 Resp: 330233

Ion Ratio Lower Upper

112 100

64 62.2 46.0 69.0

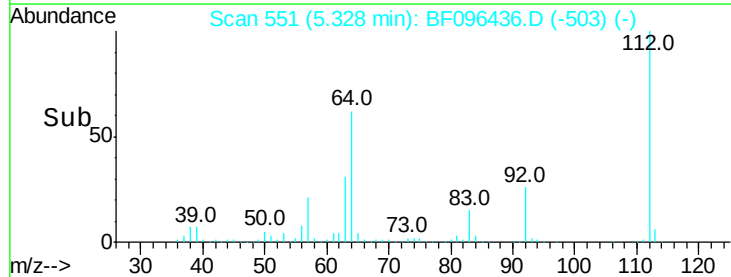
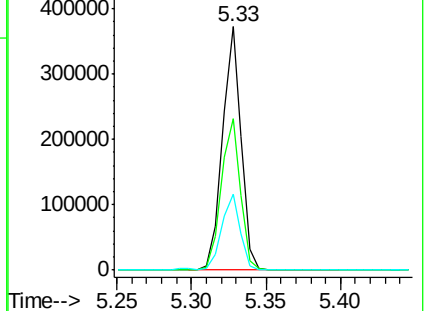
63 31.1 23.4 35.0

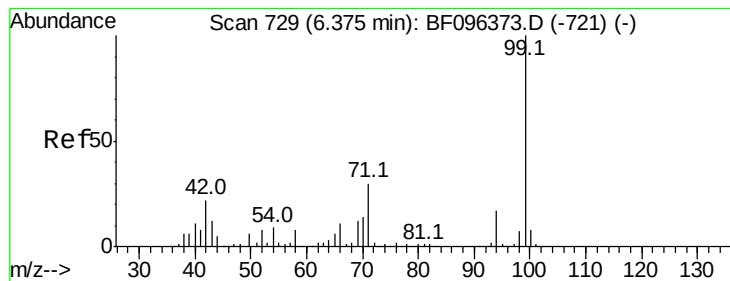


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 34.39 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

Instrument :

BNA_F

ClientSampleId :

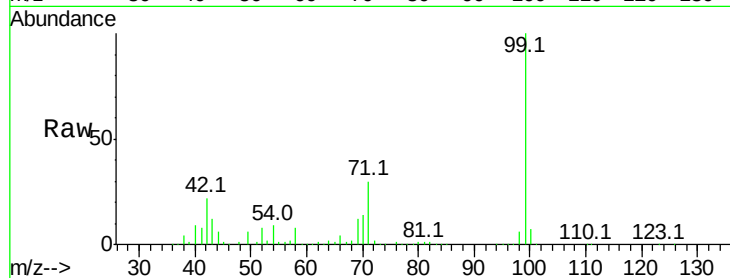
Tot Ion: 99 Resp: 406194

Ion Ratio Lower Upper

99 100

42 21.9 13.5 20.3#

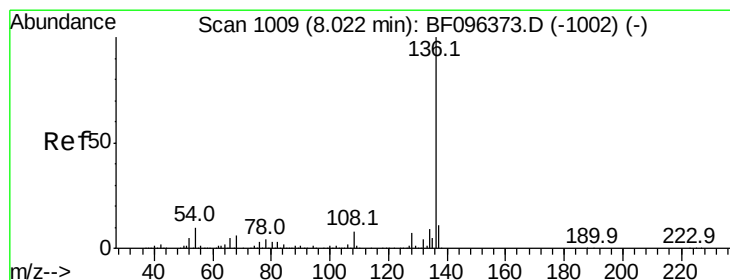
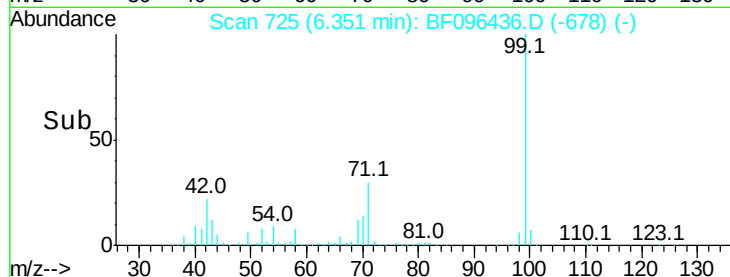
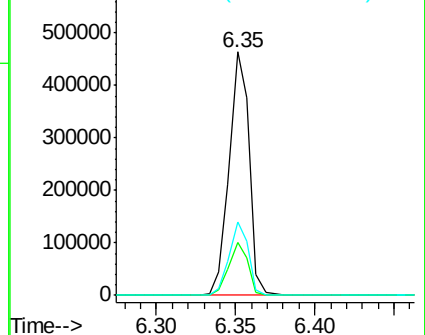
71 29.9 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 1006

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

Tgt Ion: 136 Resp: 584371

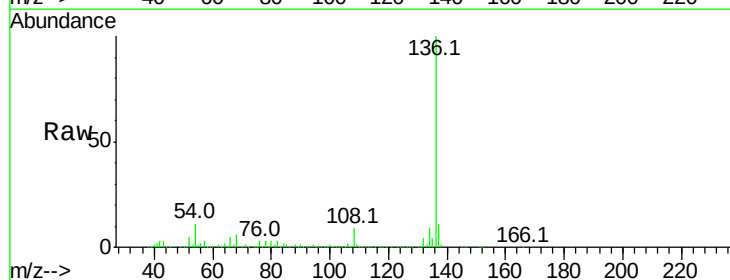
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 10.8 4.9 7.3#

68 6.0 4.1 6.1

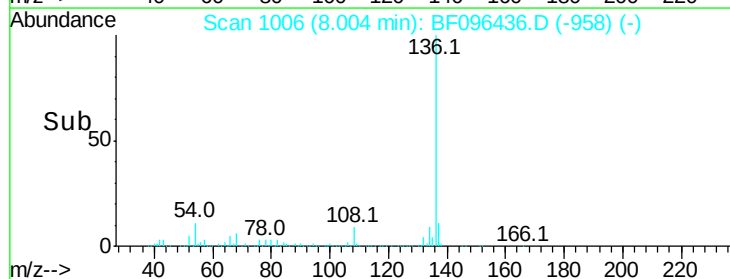
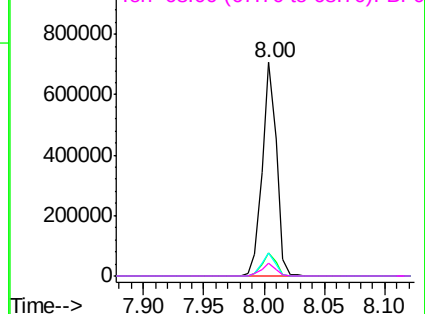


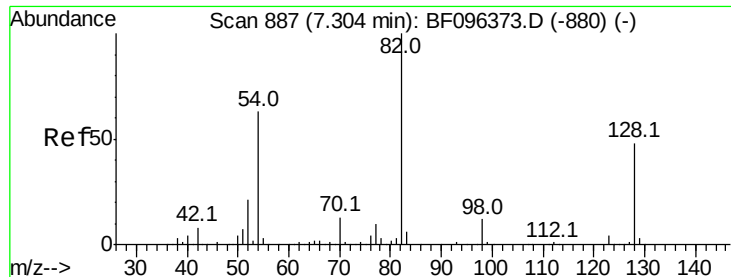
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 21.38 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

Instrument :
BNA_F
ClientSampleId :

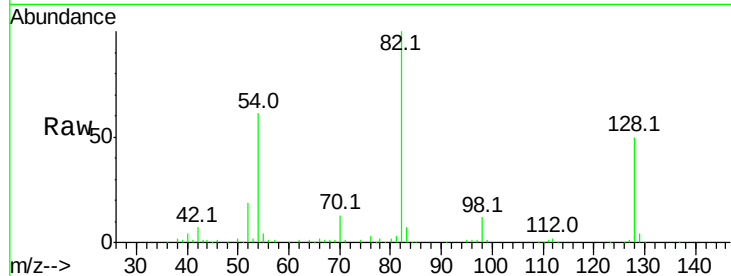
Tot Ion: 82 Resp: 207917

Ion Ratio Lower Upper

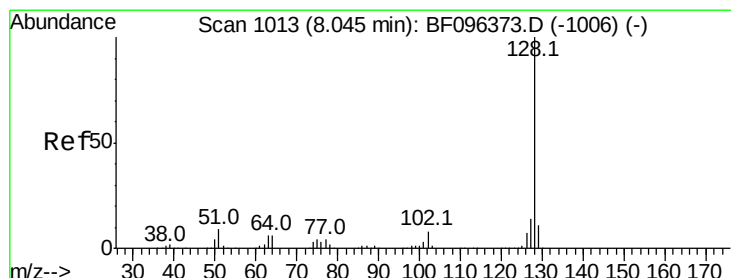
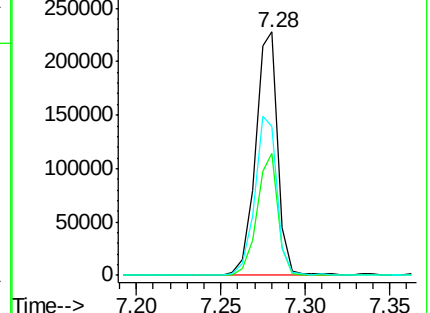
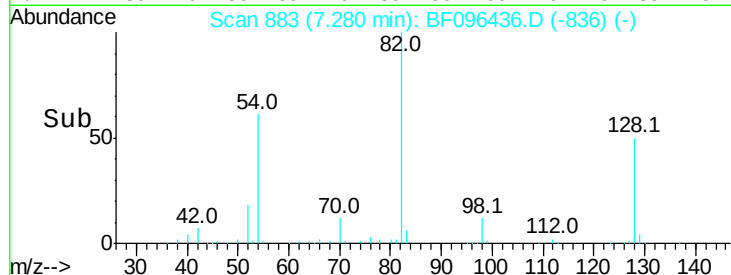
82 100

128 49.9 34.0 51.0

54 61.3 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



#31

Naphthalene

Concen: 4.01 ng

RT: 8.03 min Scan# 1010

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

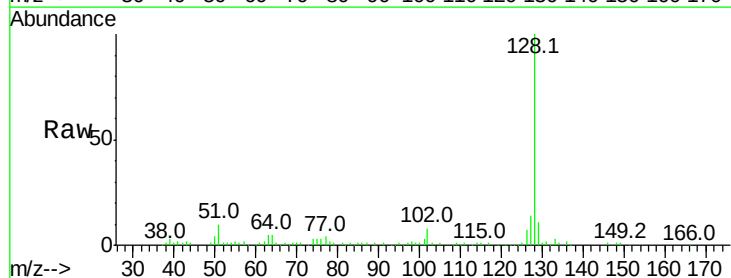
Tgt Ion:128 Resp: 110572

Ion Ratio Lower Upper

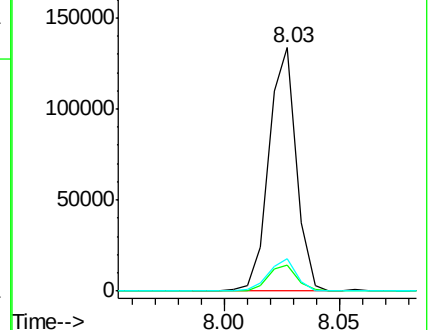
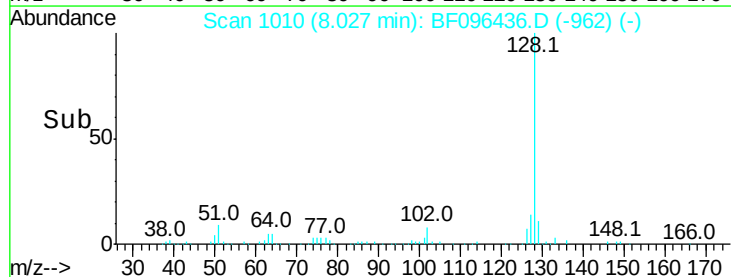
128 100

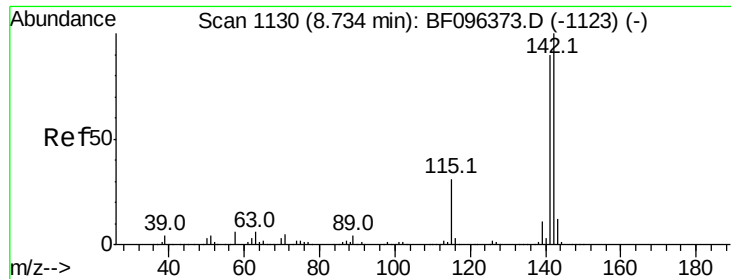
129 10.8 9.0 13.6

127 13.6 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

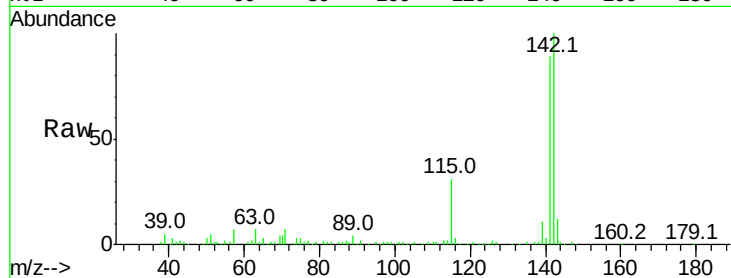




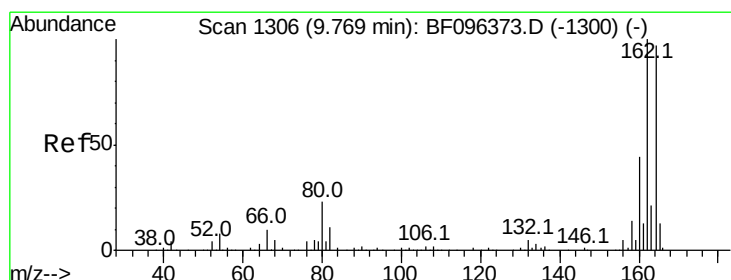
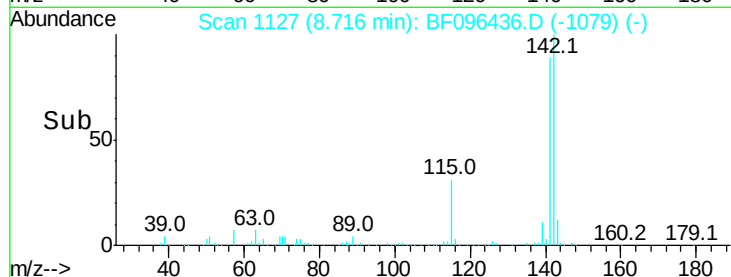
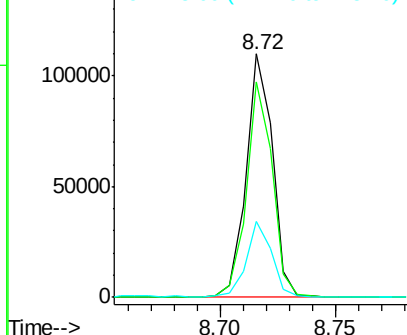
#37
2-Methylnaphthalene
Concen: 5.01 ng
RT: 8.72 min Scan# 1127
Delta R.T. -0.02 min
Lab File: BF096436.D
Acq: 3 Jul 2017 12:56

Instrument :
BNA_F
ClientSampled :

Tot Ion:142 Resp: 88056
Ion Ratio Lower Upper
142 100
141 88.7 71.3 106.9
115 31.1 27.1 40.7

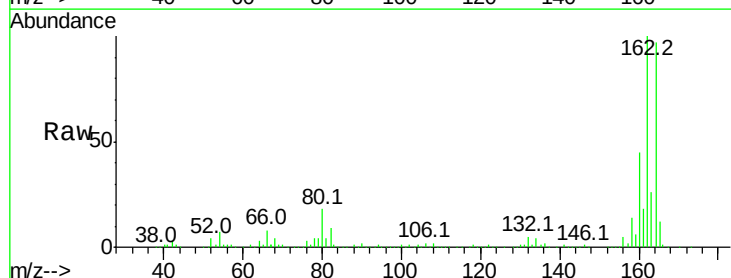


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

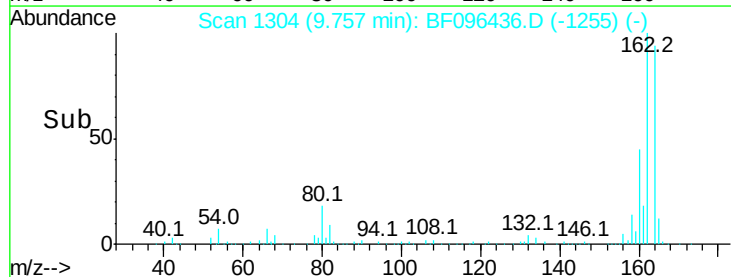
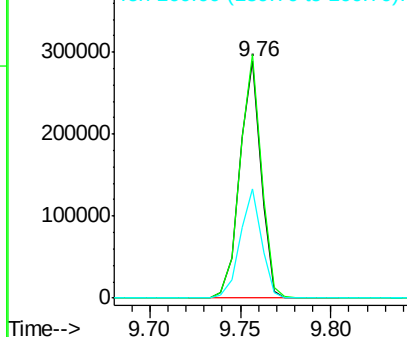


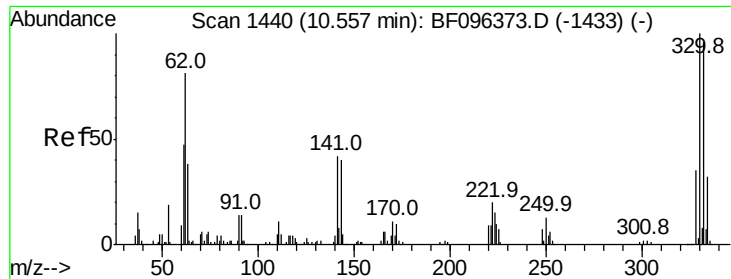
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF096436.D
Acq: 3 Jul 2017 12:56

Tgt Ion:164 Resp: 234444
Ion Ratio Lower Upper
164 100
162 102.8 82.6 123.8
160 46.0 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

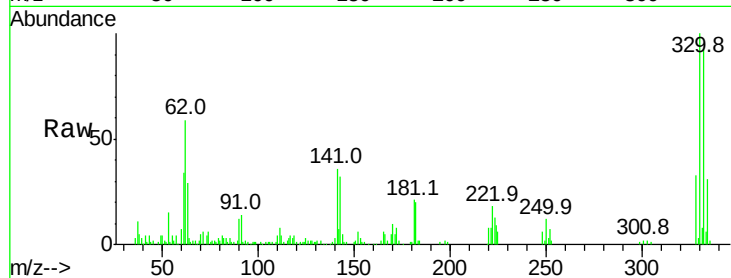




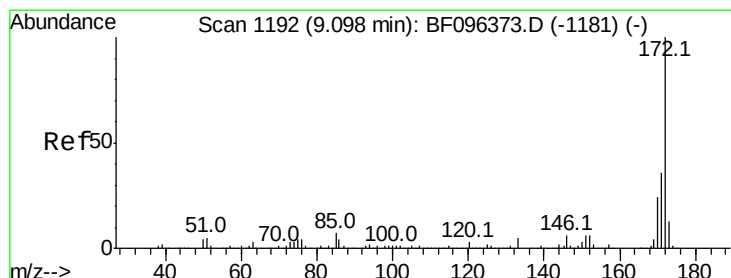
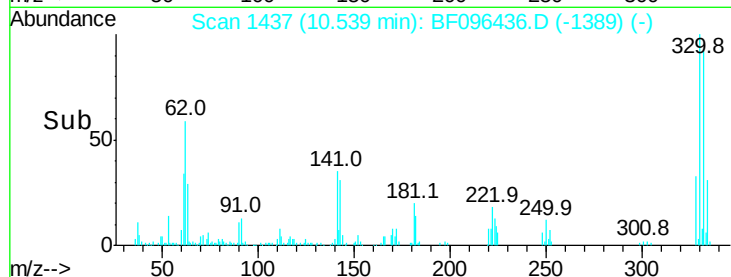
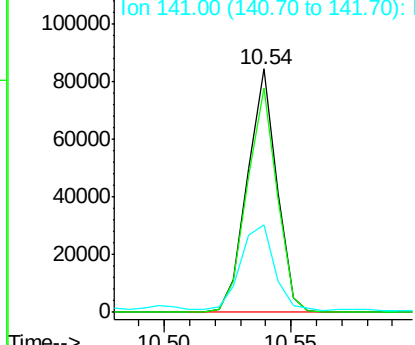
#41
 2,4,6-Tribromophenol
 Concen: 37.25 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.02 min
 Lab File: BF096436.D
 Acq: 3 Jul 2017 12:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 68223
 Ion Ratio Lower Upper
 330 100
 332 93.9 76.6 115.0
 141 39.8 31.4 47.2

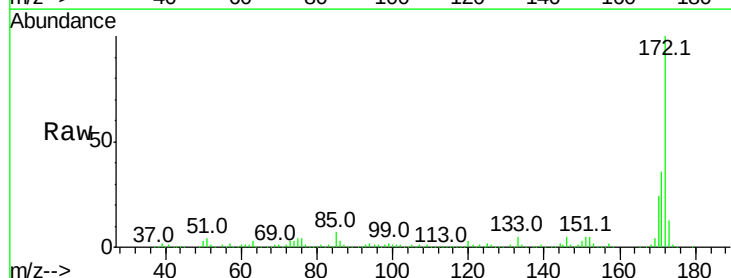


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

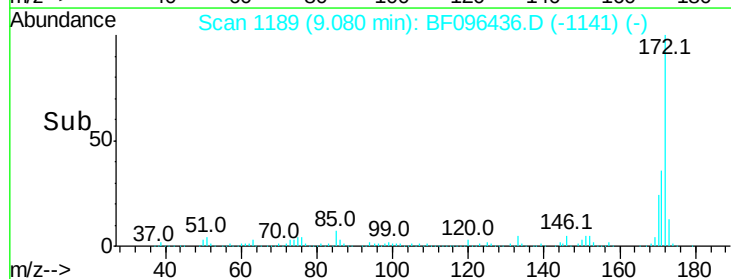
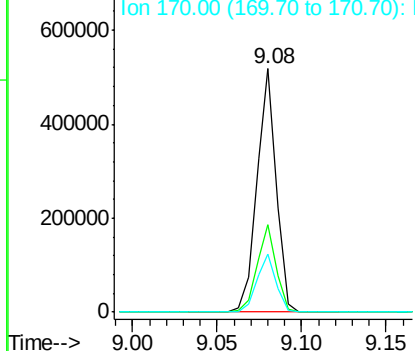


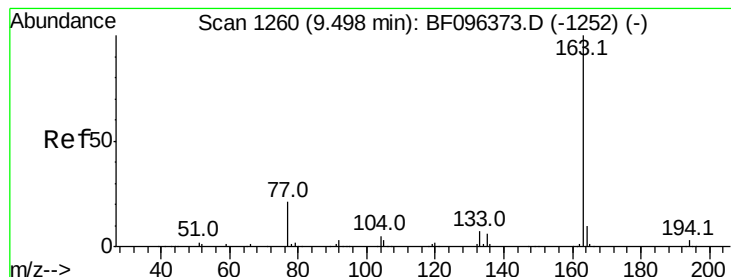
#44
 2-Fluorobiphenyl
 Concen: 30.24 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.02 min
 Lab File: BF096436.D
 Acq: 3 Jul 2017 12:56

Tgt Ion:172 Resp: 414607
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.6 44.4
 170 23.7 19.8 29.8



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





#49

Dimethylphthalate

Concen: 5.38 ng

RT: 9.47 min Scan# 1256

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

Instrument :

BNA_F

ClientSampleId :

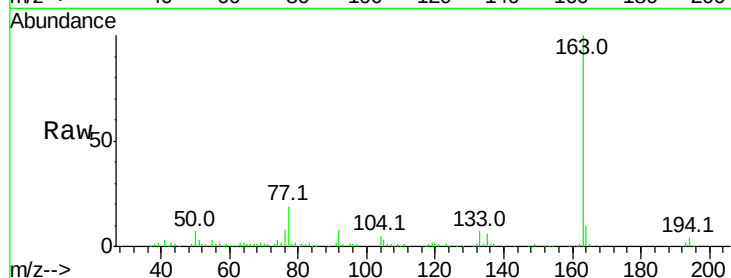
Tot Ion:163 Resp: 94215

Ion Ratio Lower Upper

163 100

194 3.8 2.6 4.0

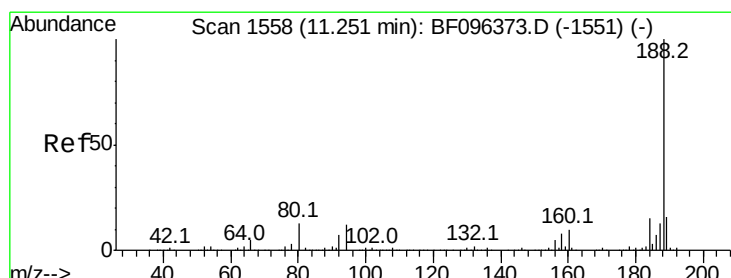
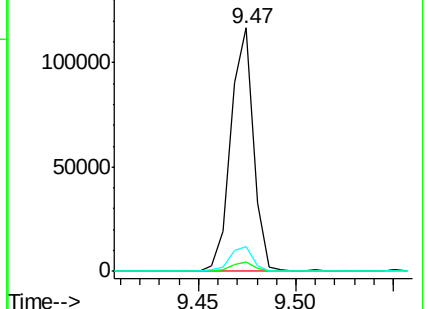
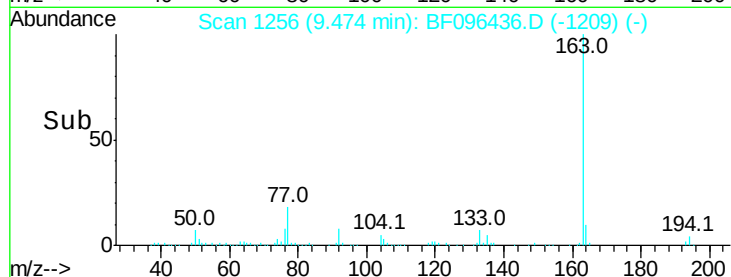
164 10.0 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.23 min Scan# 1555

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

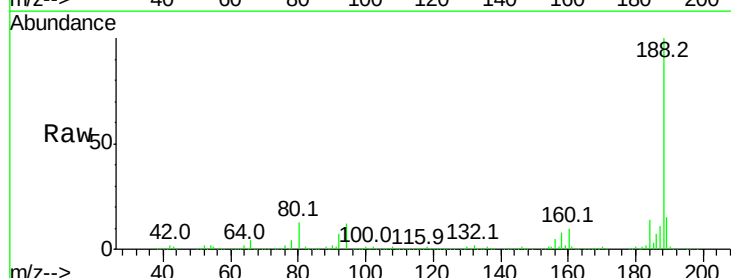
Tgt Ion:188 Resp: 372702

Ion Ratio Lower Upper

188 100

94 12.4 9.4 14.2

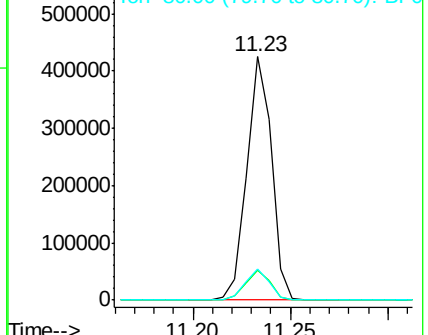
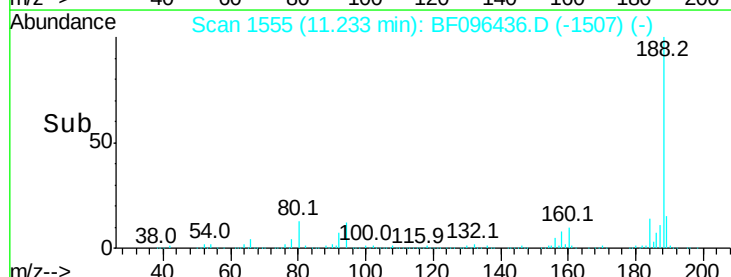
80 12.6 10.2 15.2

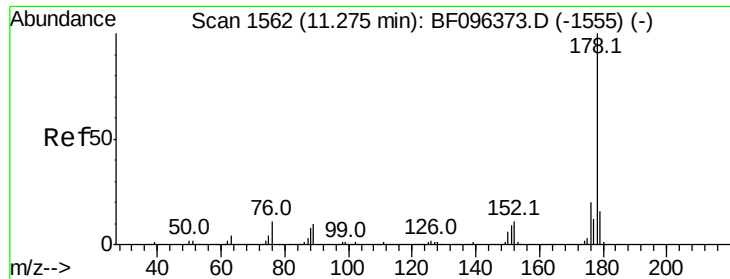


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 5.96 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

Instrument :

BNA_F

ClientSampleId :

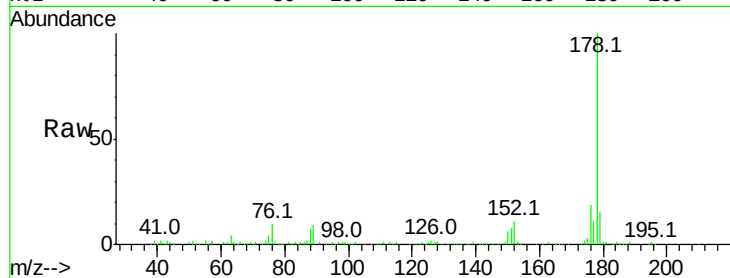
Tot Ion:178 Resp: 120078

Ion Ratio Lower Upper

178 100

176 18.9 16.2 24.4

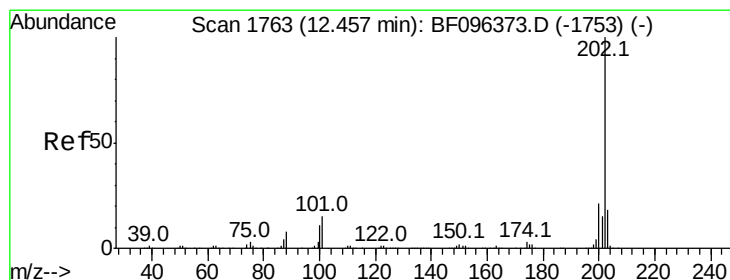
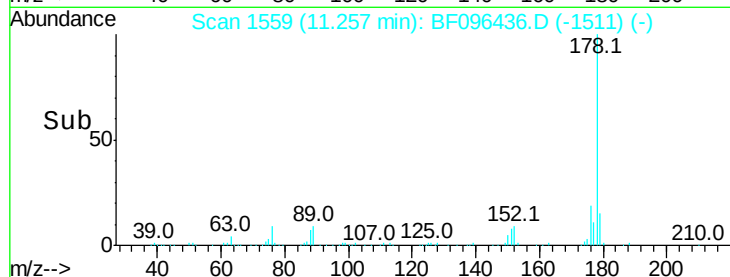
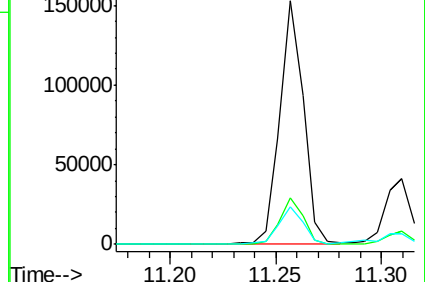
179 15.2 12.6 19.0



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



#74

Fluoranthene

Concen: 6.99 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

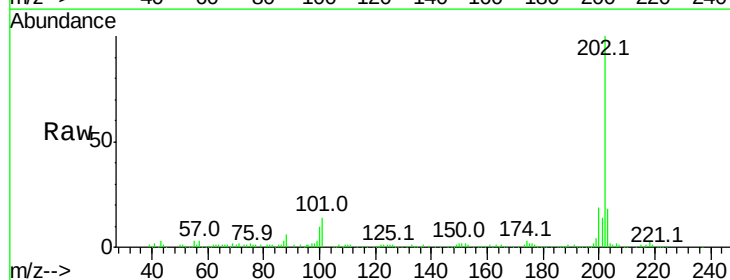
Tgt Ion:202 Resp: 138104

Ion Ratio Lower Upper

202 100

101 13.8 0.0 33.2

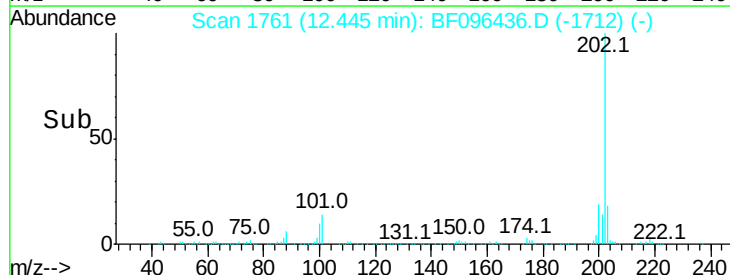
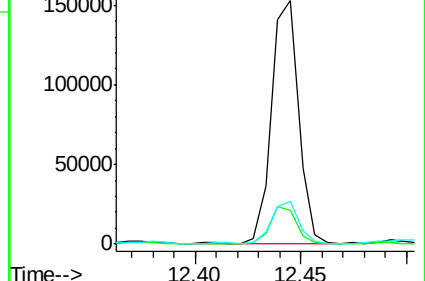
203 17.6 0.0 38.1

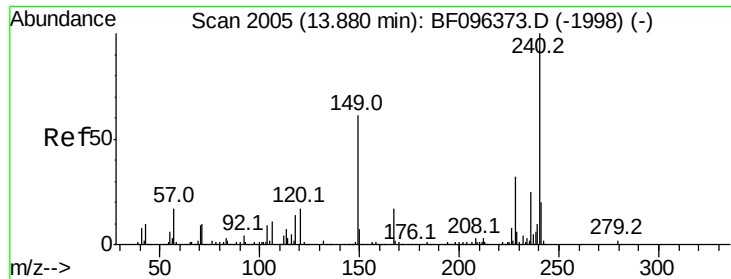


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.86 min Scan# 2002

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

Instrument :

BNA_F

ClientSampleId :

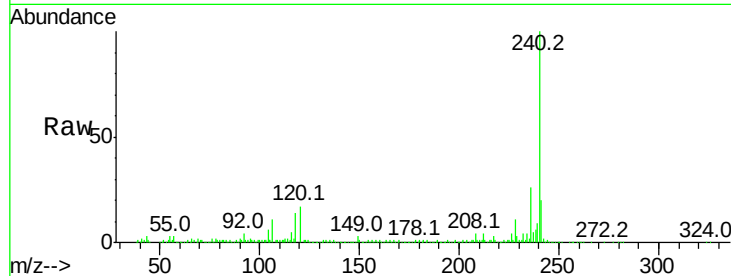
Tot Ion:240 Resp: 249629

Ion Ratio Lower Upper

240 100

120 16.8 5.8 8.8#

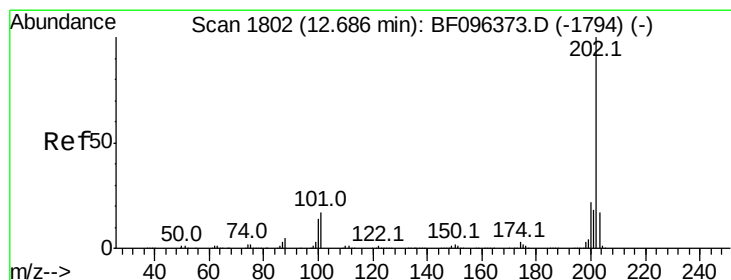
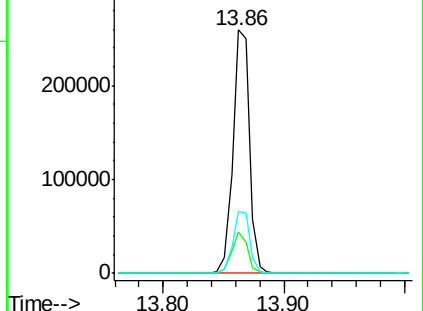
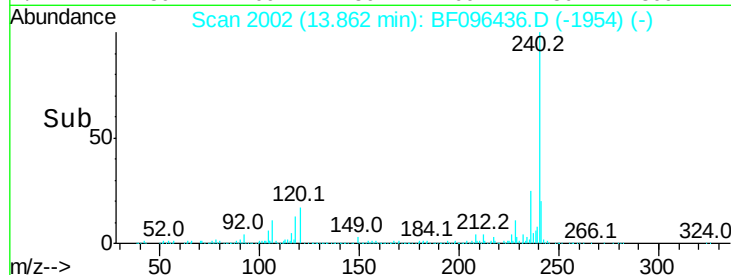
236 25.6 20.5 30.7



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: 6.16 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.02 min

Lab File: BF096436.D

Acq: 3 Jul 2017 12:56

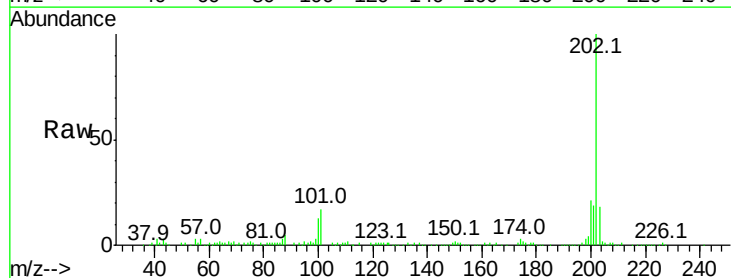
Tgt Ion:202 Resp: 123344

Ion Ratio Lower Upper

202 100

200 20.8 17.6 26.4

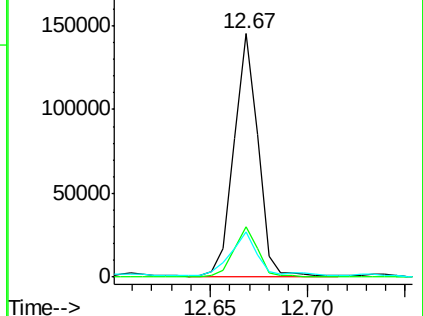
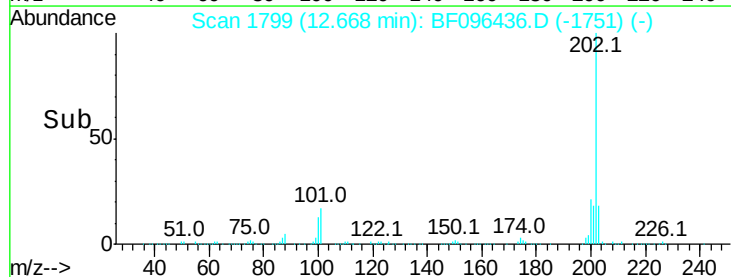
203 18.4 14.4 21.6

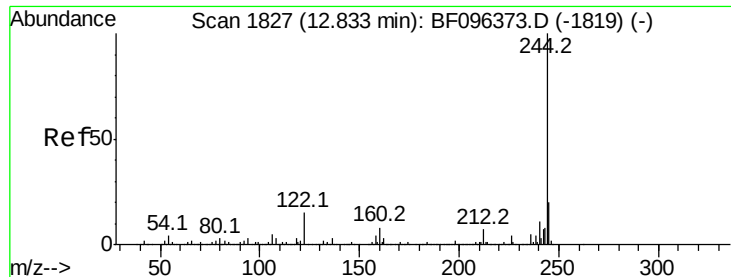


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

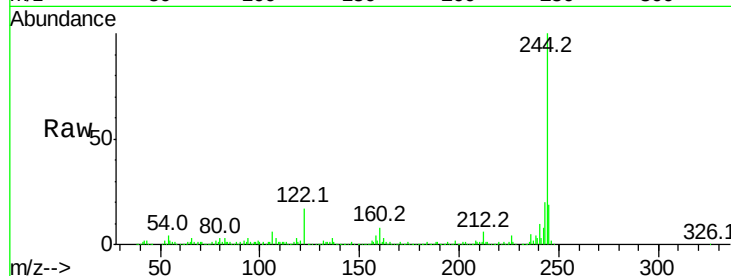




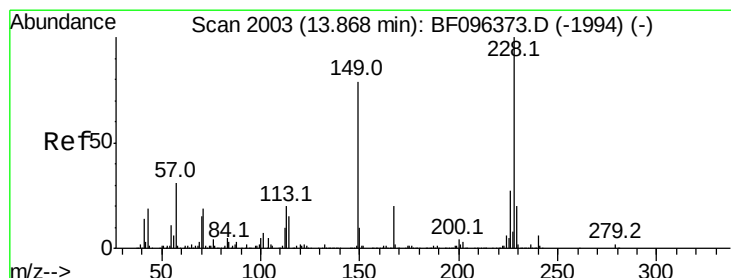
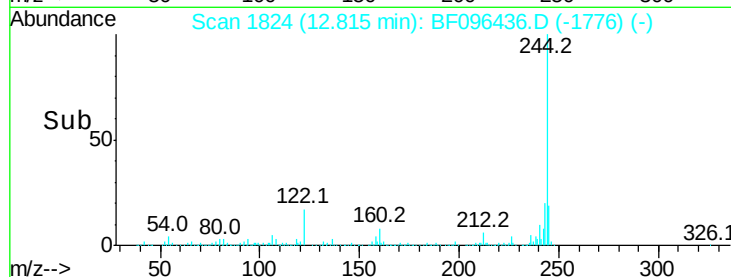
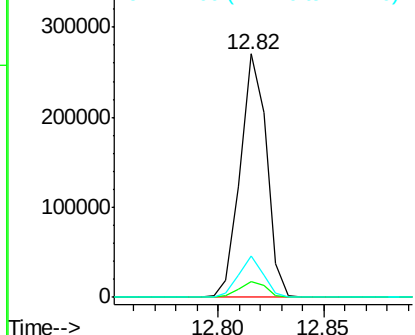
#78
 Terphenyl-d14
 Concen: 19.93 ng
 RT: 12.82 min Scan# 1824
 Delta R.T. -0.02 min
 Lab File: BF096436.D
 Acq: 3 Jul 2017 12:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 232789
 Ion Ratio Lower Upper
 244 100
 212 6.4 6.0 9.0
 122 16.8 10.3 15.5#

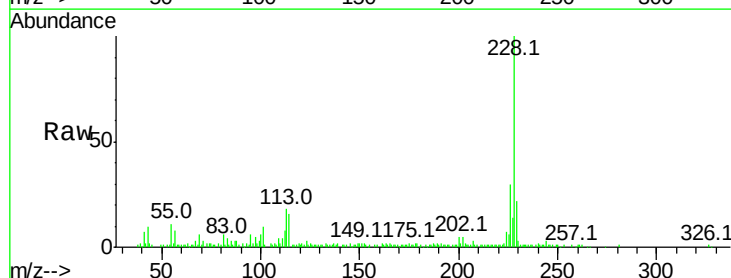


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

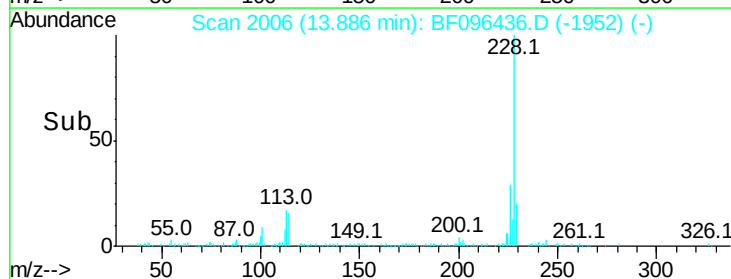
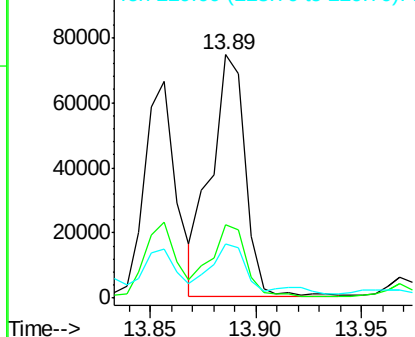


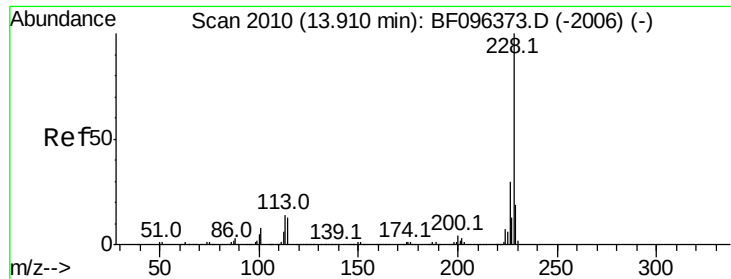
#80
 Benzo(a)anthracene
 Concen: 5.80 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. 0.02 min
 Lab File: BF096436.D
 Acq: 3 Jul 2017 12:56

Tgt Ion:228 Resp: 83815
 Ion Ratio Lower Upper
 228 100
 226 30.3 22.6 33.8
 229 22.3 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E

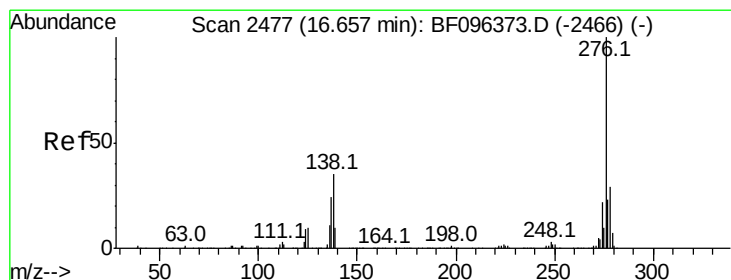
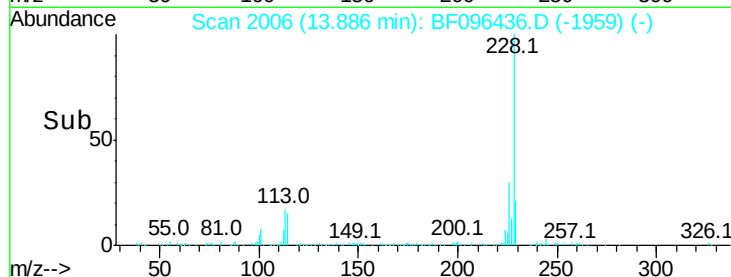
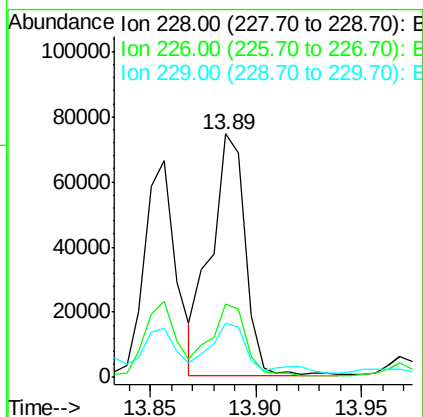
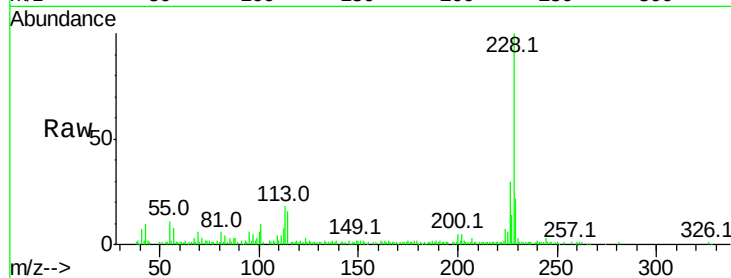




#82
Chrysene
Concen: 5.54 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.02 min
Lab File: BF096436.D
Acq: 3 Jul 2017 12:56

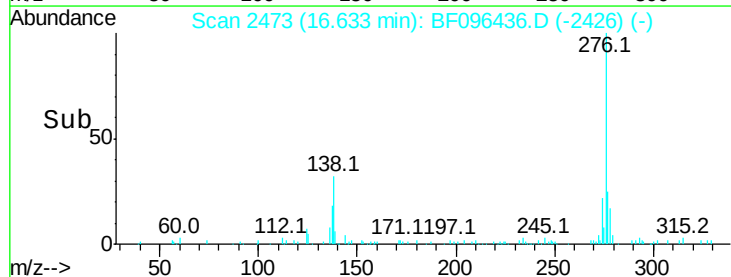
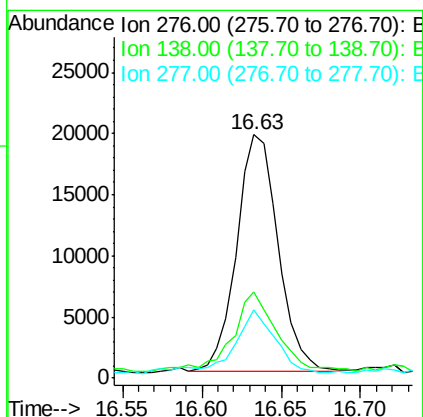
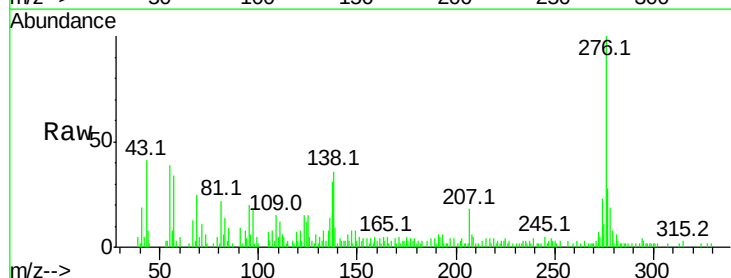
Instrument :
BNA_F
ClientSampleId :

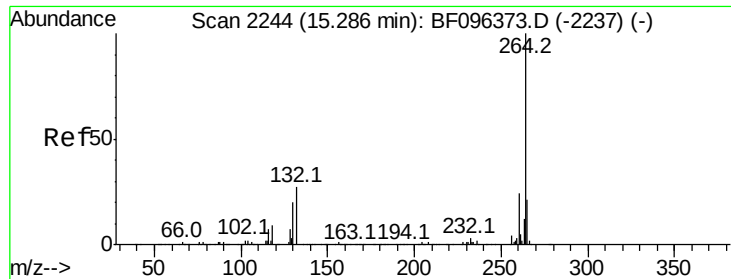
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.9	37.3
229	22.3	15.8	23.6



#85
Indeno(1,2,3-cd)pyrene
Concen: 2.94 ng
RT: 16.63 min Scan# 2473
Delta R.T. -0.02 min
Lab File: BF096436.D
Acq: 3 Jul 2017 12:56

Tgt Ion	Ratio	Lower	Upper
276	100		
138	36.9	27.8	41.6
277	28.4	20.2	30.4

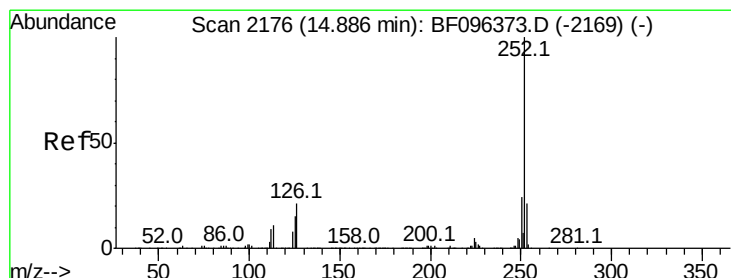
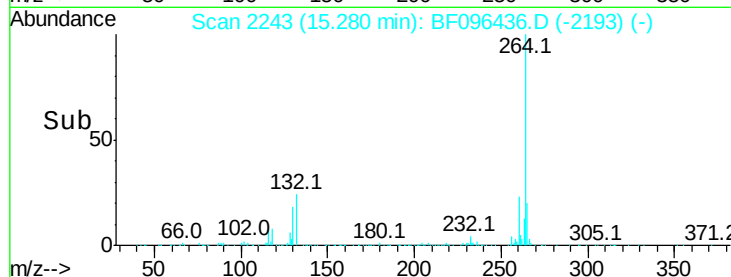
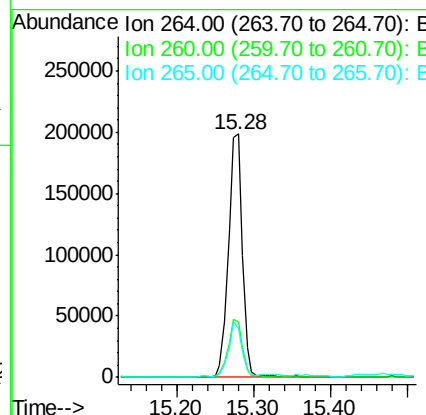
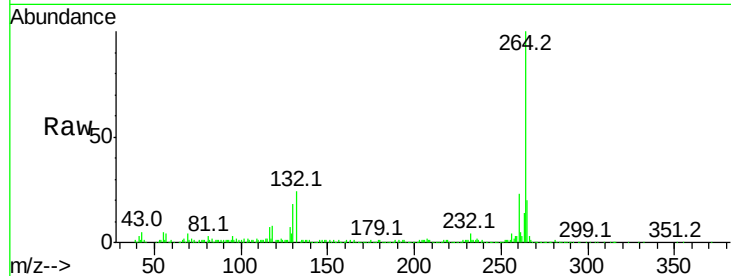




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.28 min Scan# 2243
Delta R.T. -0.01 min
Lab File: BF096436.D
Acq: 3 Jul 2017 12:56

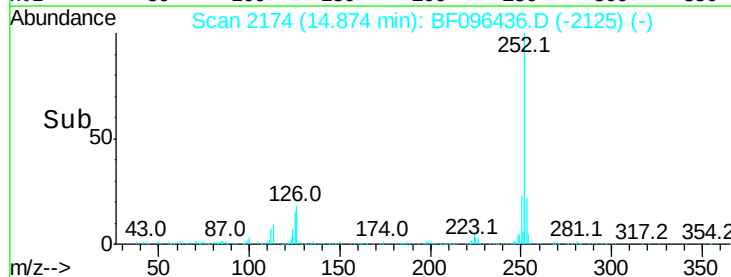
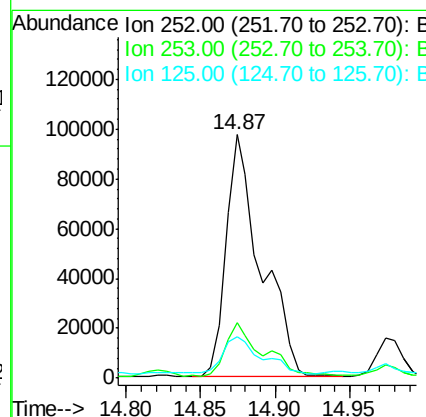
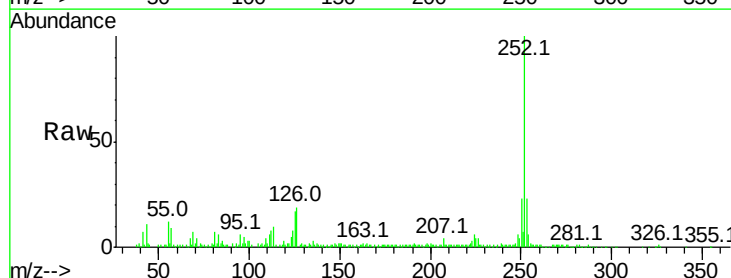
Instrument :
BNA_F
ClientSampled :

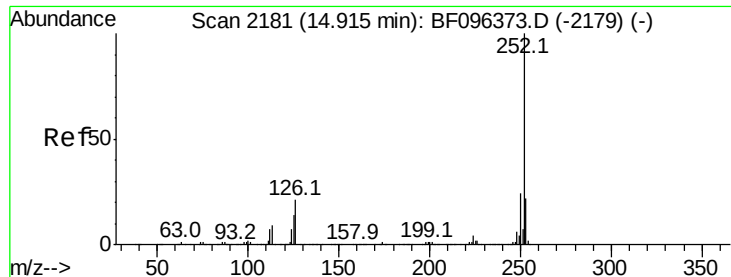
Tot Ion:264 Resp: 254084
Ion Ratio Lower Upper
264 100
260 22.6 19.5 29.3
265 20.1 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 9.99 ng
RT: 14.87 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BF096436.D
Acq: 3 Jul 2017 12:56

Tgt Ion:252 Resp: 159084
Ion Ratio Lower Upper
252 100
253 22.7 18.1 27.1
125 17.0 9.8 14.8#

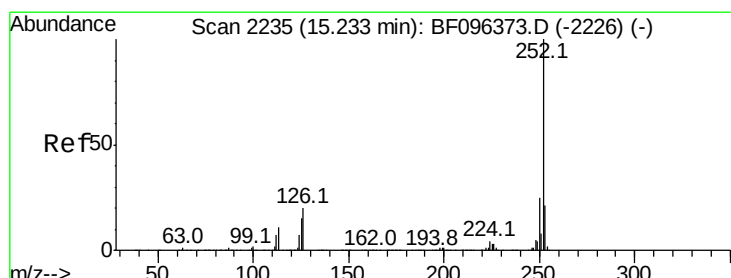
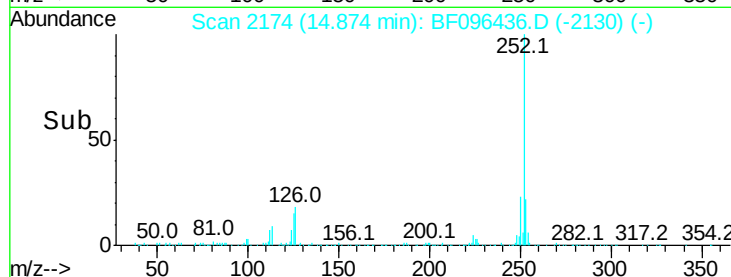
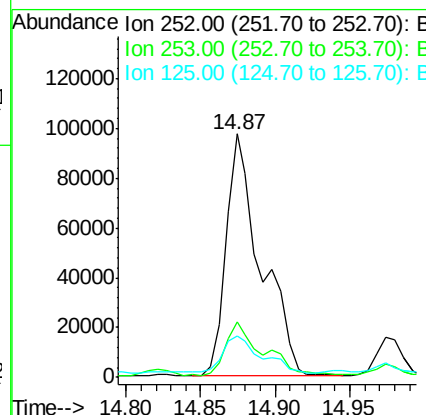
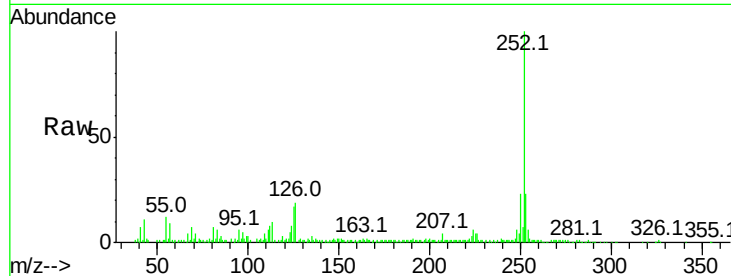




#88
Benzo(k)fluoranthene
Concen: 11.17 ng
RT: 14.87 min Scan# 2174
Delta R.T. -0.04 min
Lab File: BF096436.D
Acq: 3 Jul 2017 12:56

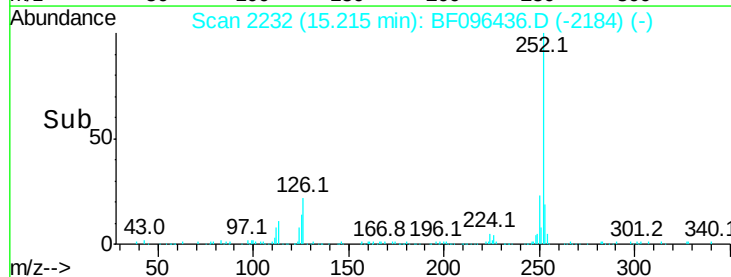
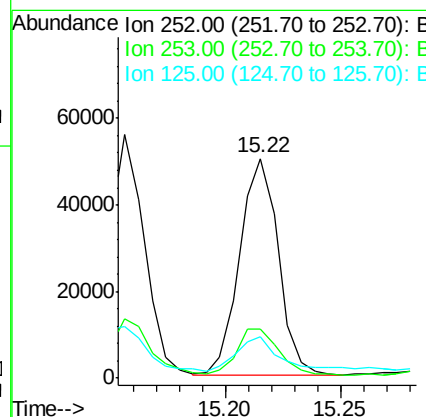
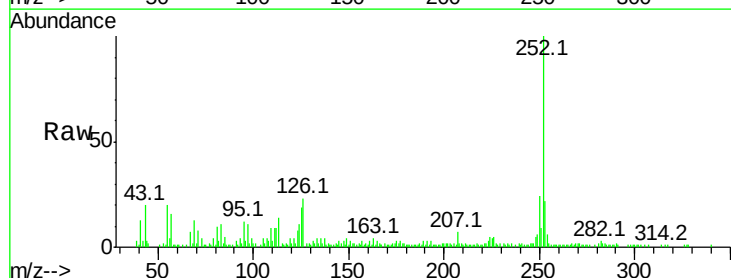
Instrument :
BNA_F
ClientSampleId :

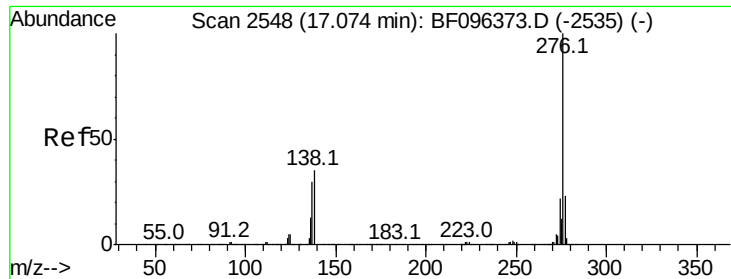
Tot Ion:252 Resp: 159084
Ion Ratio Lower Upper
252 100
253 22.7 18.4 27.6
125 17.0 13.1 19.7



#89
Benzo(a)pyrene
Concen: 4.11 ng
RT: 15.22 min Scan# 2232
Delta R.T. -0.02 min
Lab File: BF096436.D
Acq: 3 Jul 2017 12:56

Tgt Ion:252 Resp: 58360
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 18.9 11.0 16.4#





#91
 Benzo(a,h,i)perylene
 Concen: 2.88 ng
 RT: 17.04 min Scan# 2543
 Delta R.T. -0.03 min
 Lab File: BF096436.D
 Acq: 3 Jul 2017 12:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	28.0
138	31.6	25.4	38.0

