

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011215\
 Data File : BF076836.D
 Acq On : 13 Jan 2015 8:46
 Operator : IZ / TP
 Sample : G1030-07
 Misc : S
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-1(2-4)

Quant Time: Jan 13 11:58:03 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 10 06:22:22 2015
 Response via : Initial Calibration

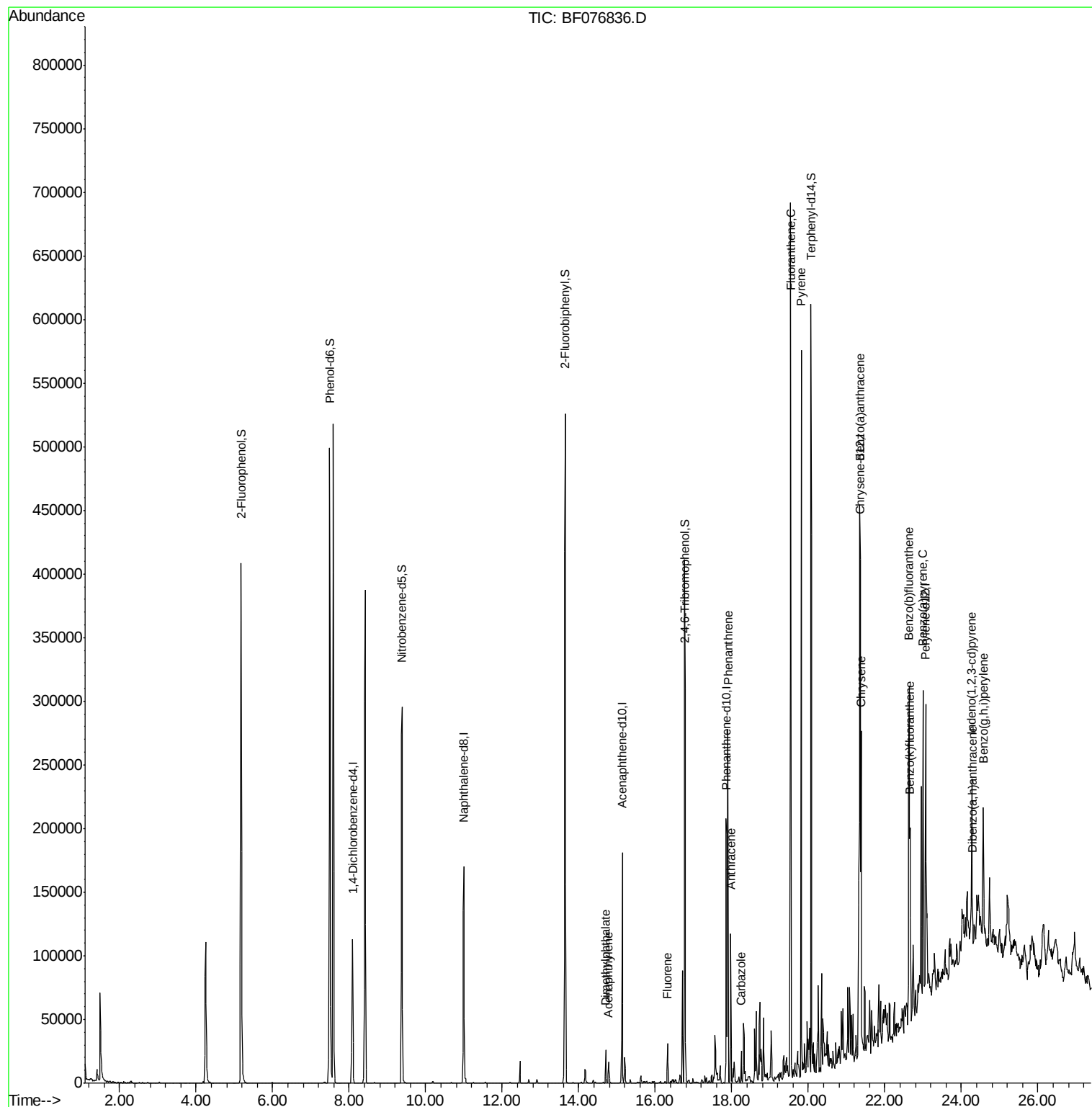
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.09	152	33320	20.00	ng	0.01
21) Naphthalene-d8	11.00	136	135746	20.00	ng	0.00
38) Acenaphthene-d10	15.13	164	73790	20.00	ng	0.00
63) Phenanthrene-d10	17.87	188	120343	20.00	ng	0.01
75) Chrysene-d12	21.35	240	109986	20.00	ng	0.00
86) Perylene-d12	23.07	264	100763	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	214475	105.88	ng	0.00
7) Phenol-d6	7.49	99	274472	107.55	ng	-0.01
23) Nitrobenzene-d5	9.38	82	168611	67.58	ng	0.00
41) 2,4,6-Tribromophenol	16.78	330	62341	98.60	ng	0.00
44) 2-Fluorobiphenyl	13.65	172	294017	57.98	ng	0.00
78) Terphenyl-d14	20.07	244	246944	48.36	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	14.78	152	17096	2.17	ng	95
49) Dimethylphthalate	14.70	163	20743	3.83	ng	98
57) Fluorene	16.32	166	12313	2.26	ng	# 93
70) Phenanthrene	17.90	178	172867	22.92	ng	100
71) Anthracene	17.97	178	48078	6.45	ng	98
72) Carbazole	18.25	167	18593	2.58	ng	# 92
74) Fluoranthene	19.53	202	322077	41.40	ng	99
77) Pyrene	19.82	202	270678	33.59	ng	# 96
80) Benzo(a)anthracene	21.34	228	163968	22.97	ng	99
82) Chrysene	21.39	228	117800m	18.56	ng	
85) Indeno(1,2,3-cd)pyrene	24.27	276	76057m	11.53	ng	
87) Benzo(b)fluoranthene	22.63	252	158139m	21.37	ng	
88) Benzo(k)fluoranthene	22.64	252	59721m	10.23	ng	
89) Benzo(a)pyrene	23.00	252	119397	19.47	ng	# 92
90) Dibenzo(a,h)anthracene	24.29	278	16699m	2.99	ng	
91) Benzo(g,h,i)perylene	24.57	276	68425m	12.08	ng	

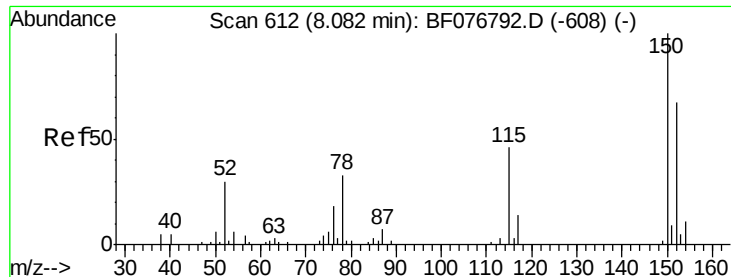
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010915.M
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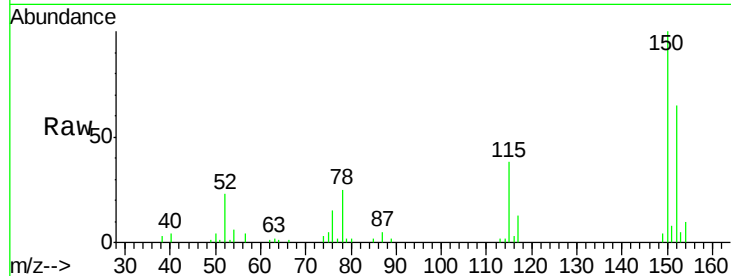


#1

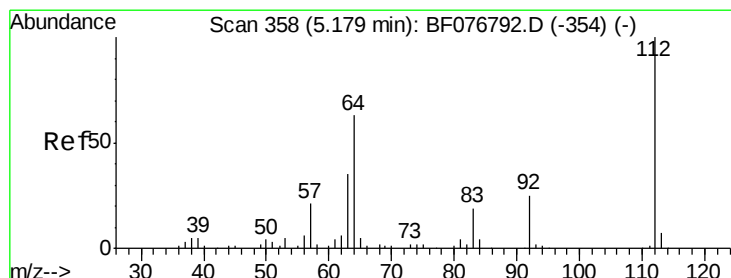
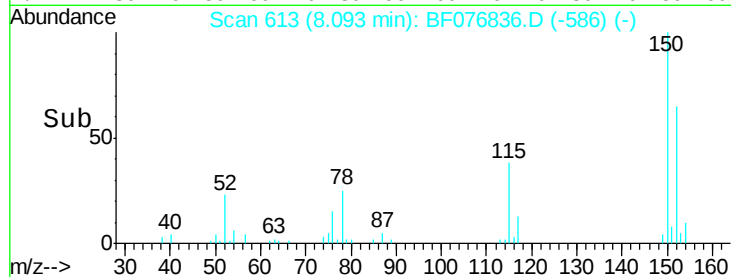
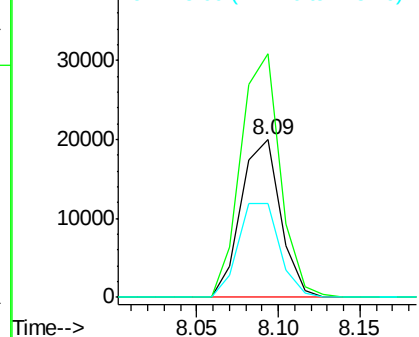
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.09 min Scan# 613
Delta R.T. 0.01 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

Instrument :
BNA_F
ClientSampleId :
TP3-SS-1(2-4)

Tot Ion:152 Resp: 33320
Ion Ratio Lower Upper
152 100
150 154.3 119.5 179.3
115 59.1 54.6 81.8



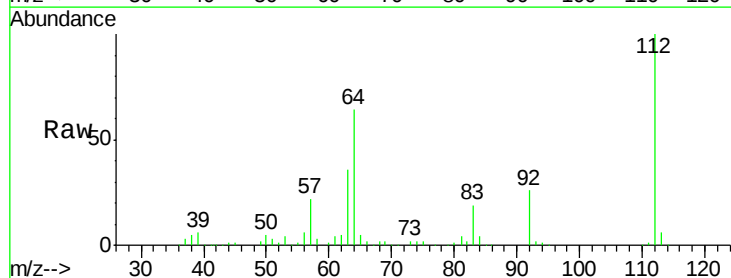
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



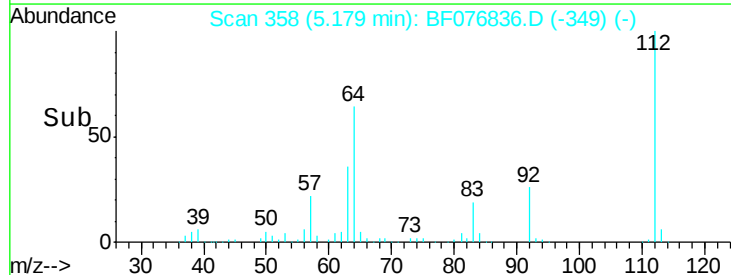
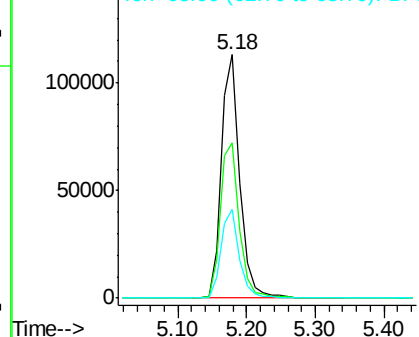
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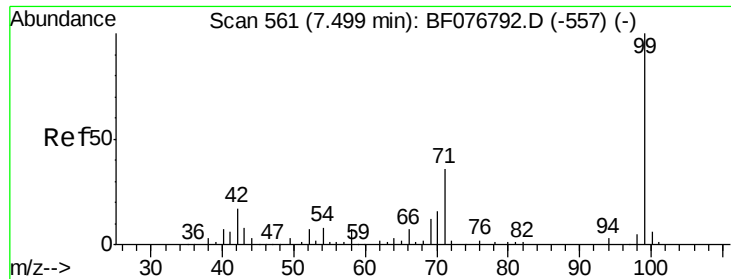
2-Fluorophenol
Concen: 105.88 ng
RT: 5.18 min Scan# 358
Delta R.T. 0.00 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

Tgt Ion:112 Resp: 214475
Ion Ratio Lower Upper
112 100
64 63.9 50.2 75.4
63 36.3 27.8 41.6



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: 107.55 ng

RT: 7.49 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-1(2-4)

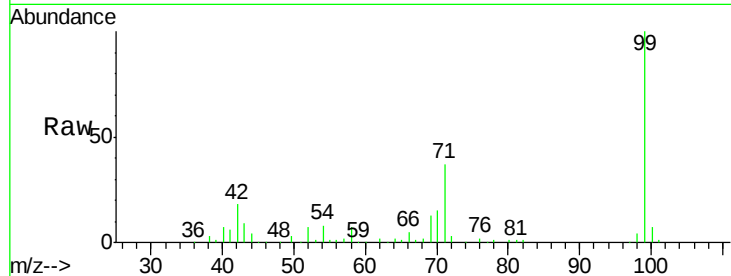
Tot Ion: 99 Resp: 274472

Ion Ratio Lower Upper

99 100

42 17.9 13.3 19.9

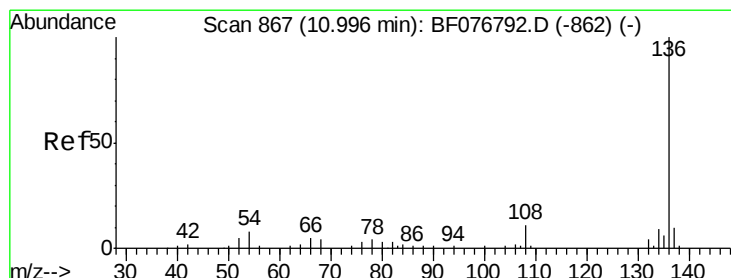
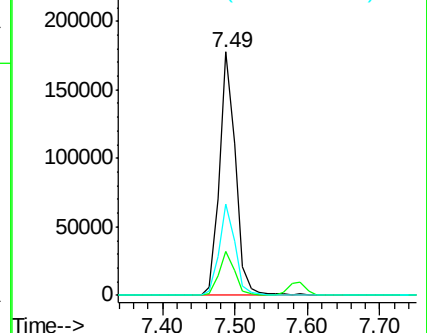
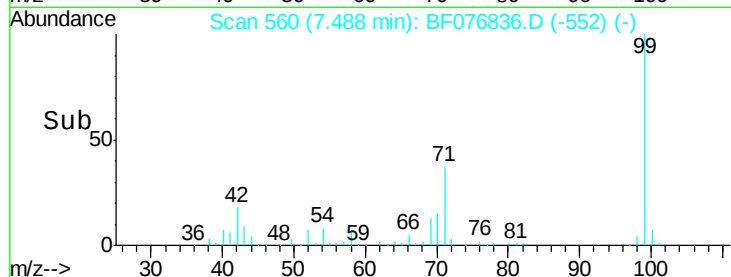
71 37.4 29.2 43.8



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: 11.00 min Scan# 867

Delta R.T. 0.00 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

Tgt Ion: 136 Resp: 135746

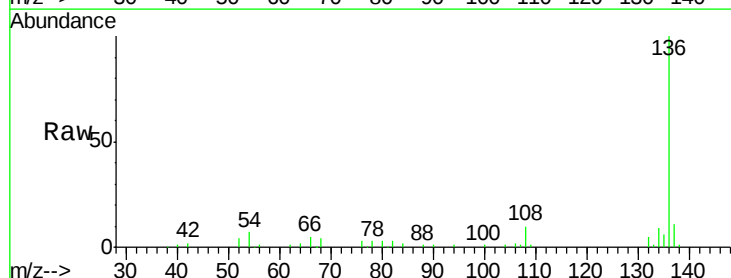
Ion Ratio Lower Upper

136 100

137 10.6 8.1 12.1

54 6.6 6.3 9.5

68 4.1 3.4 5.0

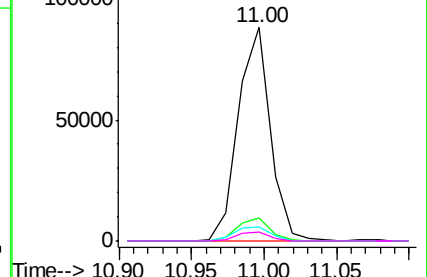
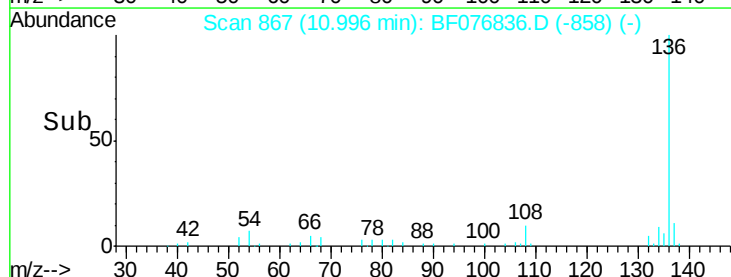


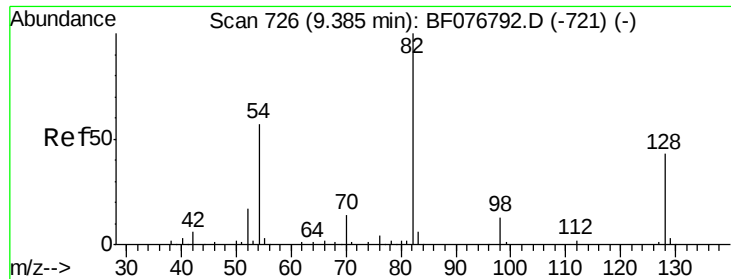
Abundance Ion 136.00 (135.70 to 136.70): E

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

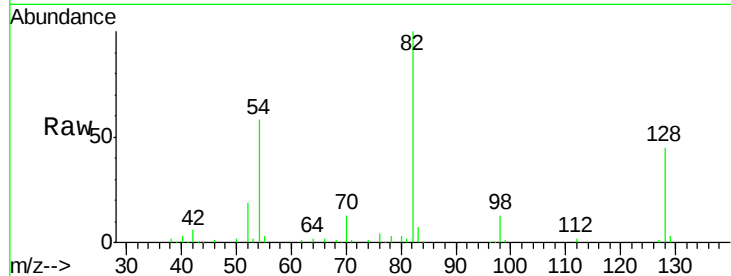




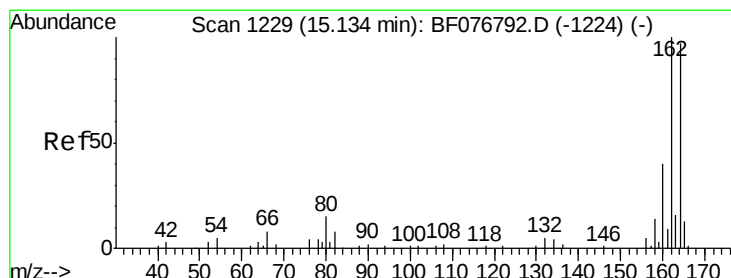
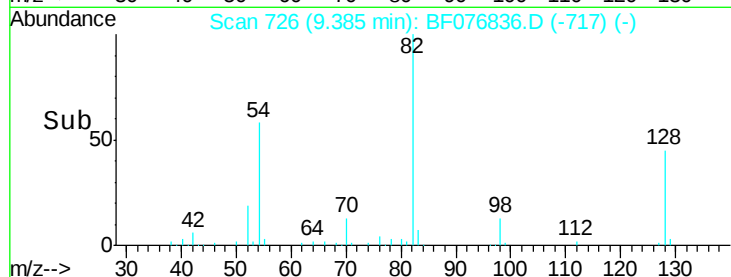
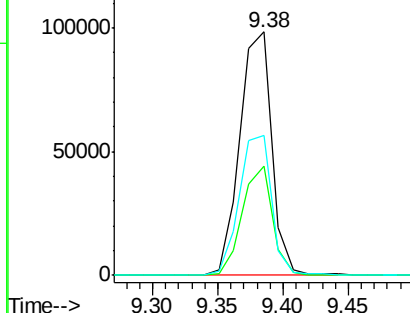
#23
 Nitrobenzene-d5
 Concen: 67.58 ng
 RT: 9.38 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: BF076836.D
 Acq: 13 Jan 2015 8:46

Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-1(2-4)

Tot Ion	82	Resp	168611
Ion Ratio	Lower	Upper	
82	100		
128	44.9	34.0	51.0
54	57.5	45.6	68.4

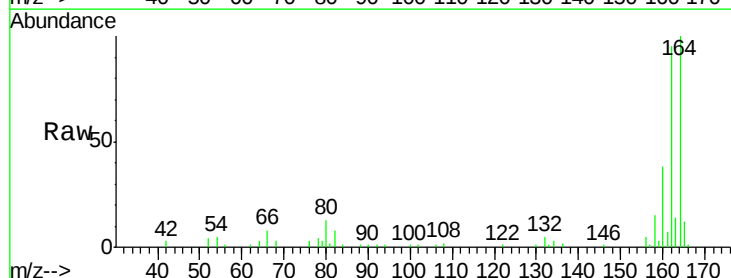


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

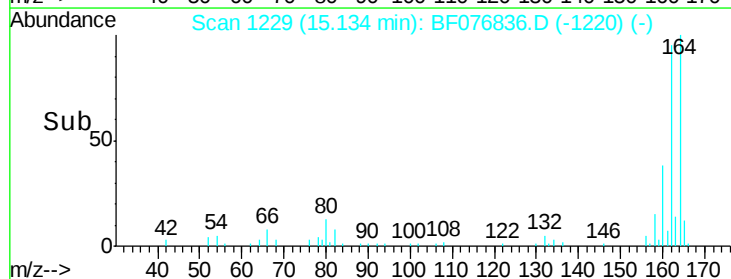
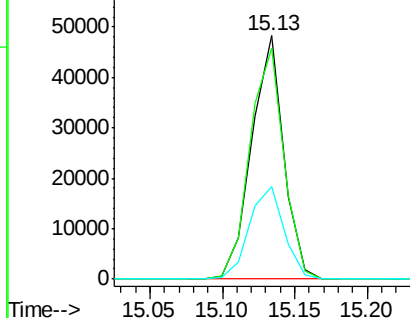


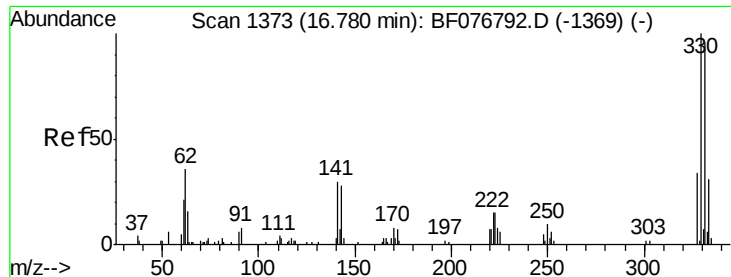
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 15.13 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: BF076836.D
 Acq: 13 Jan 2015 8:46

Tgt Ion	164	Resp	73790
Ion Ratio	Lower	Upper	
164	100		
162	95.0	82.5	123.7
160	37.8	33.1	49.7



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

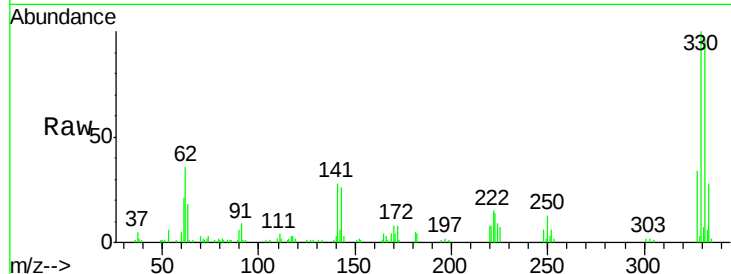




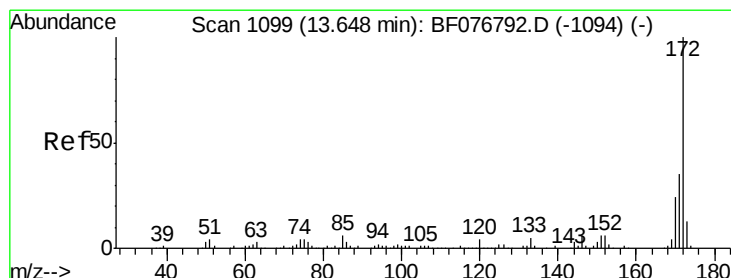
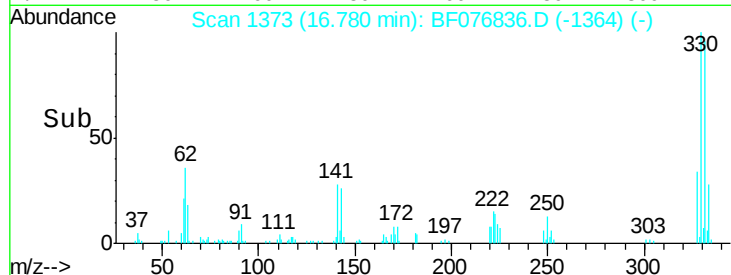
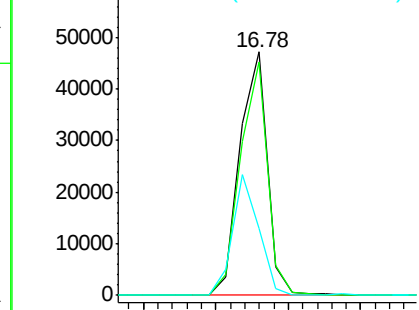
#41
 2,4,6-Tribromophenol
 Concen: 98.60 ng
 RT: 16.78 min Scan# 1373
 Delta R.T. 0.00 min
 Lab File: BF076836.D
 Acq: 13 Jan 2015 8:46

Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-1(2-4)

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.4	74.8	112.2
141	47.1	42.4	63.6

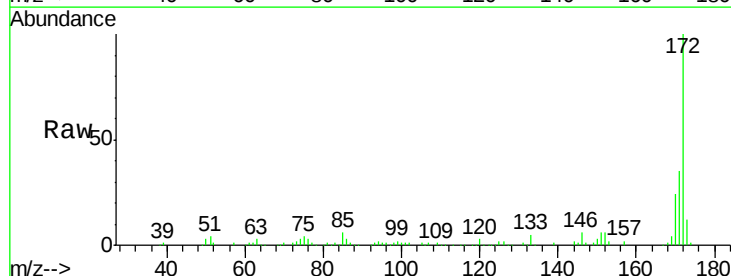


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

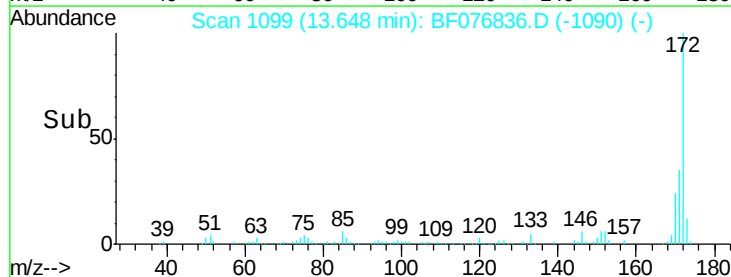
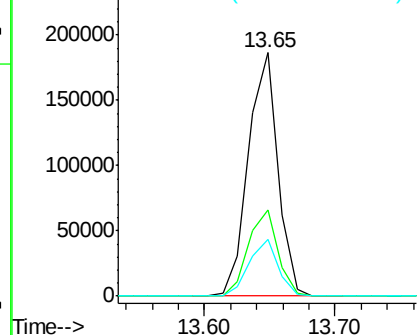


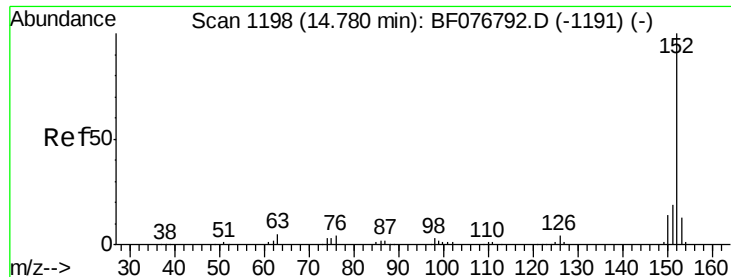
#44
 2-Fluorobiphenyl
 Concen: 57.98 ng
 RT: 13.65 min Scan# 1099
 Delta R.T. 0.00 min
 Lab File: BF076836.D
 Acq: 13 Jan 2015 8:46

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.8	41.8
170	23.5	18.8	28.2



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





#48

Acenaphthylene

Concen: 2.17 ng

RT: 14.78 min Scan# 1198

Delta R.T. 0.00 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-1(2-4)

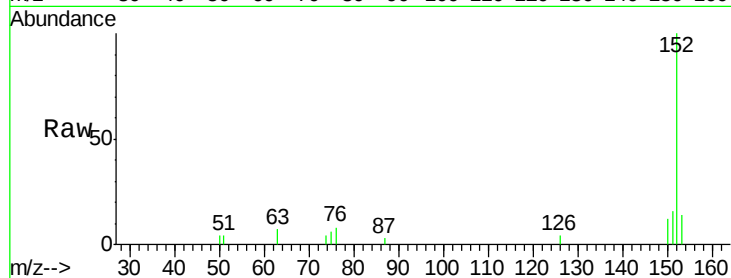
Tot Ion:152 Resp: 17096

Ion Ratio Lower Upper

152 100

151 15.8 15.2 22.8

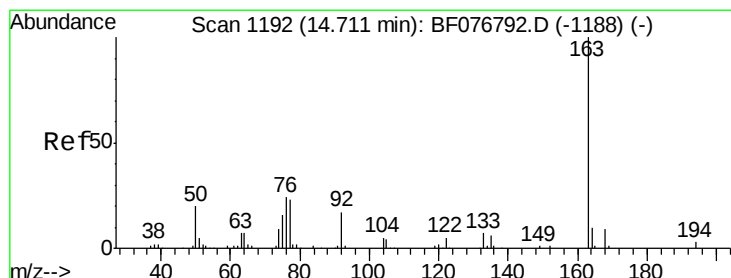
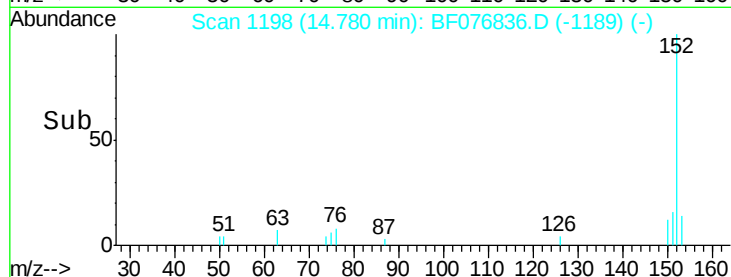
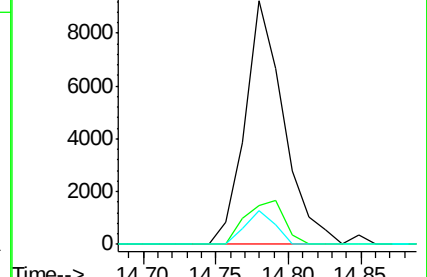
153 14.0 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 3.83 ng

RT: 14.70 min Scan# 1191

Delta R.T. -0.01 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

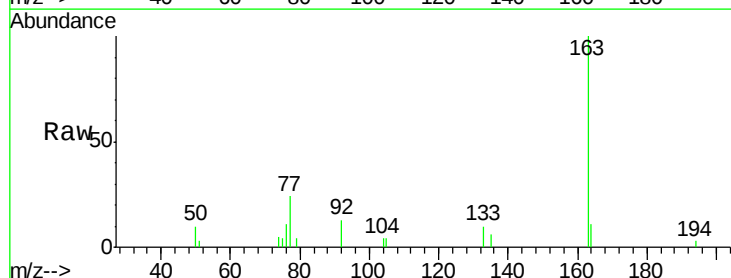
Tgt Ion:163 Resp: 20743

Ion Ratio Lower Upper

163 100

194 2.7 2.3 3.5

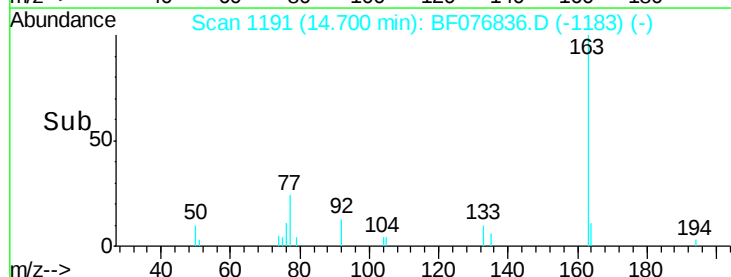
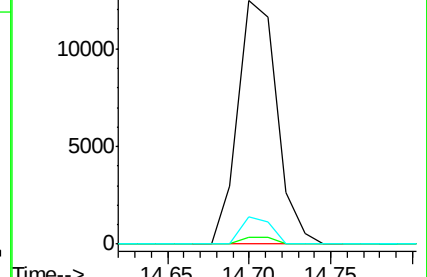
164 11.3 8.3 12.5

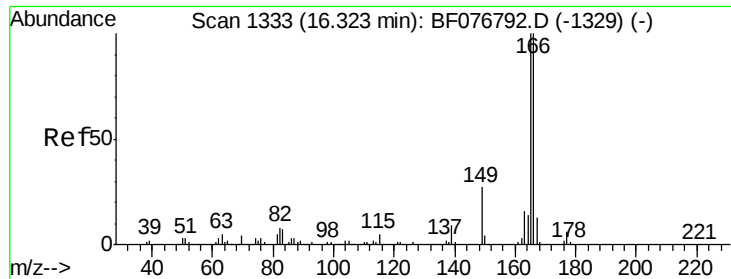


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#57

Fluorene

Concen: 2.26 ng

RT: 16.32 min Scan# 1333

Delta R.T. 0.00 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

Instrument :

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TP3-SS-1(2-4)

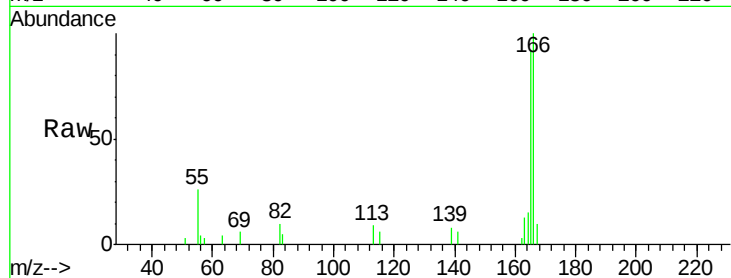
Tot Ion:166 Resp: 12313

Ion Ratio Lower Upper

166 100

165 92.3 79.6 119.4

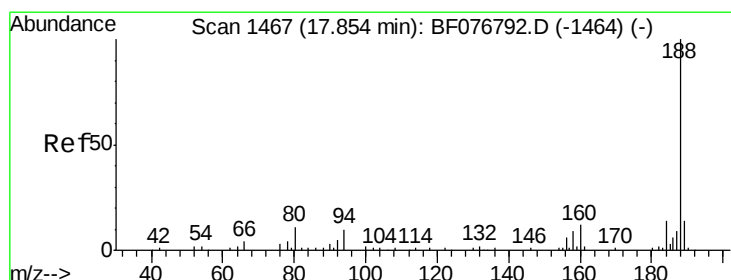
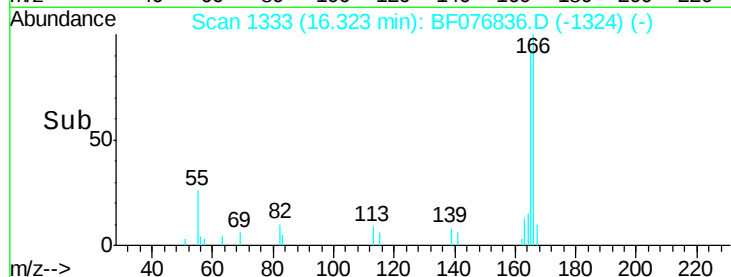
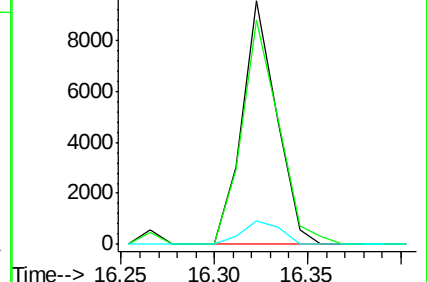
167 9.8 10.2 15.2#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.87 min Scan# 1468

Delta R.T. 0.01 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

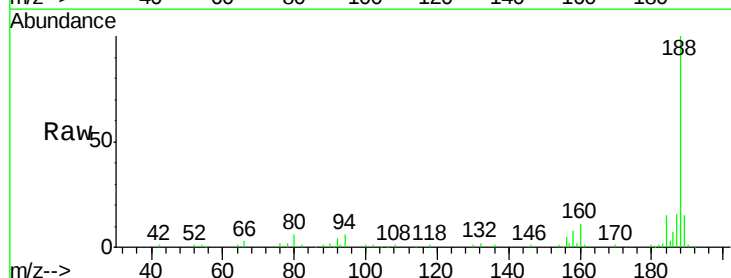
Tgt Ion:188 Resp: 120343

Ion Ratio Lower Upper

188 100

94 6.1 7.8 11.6#

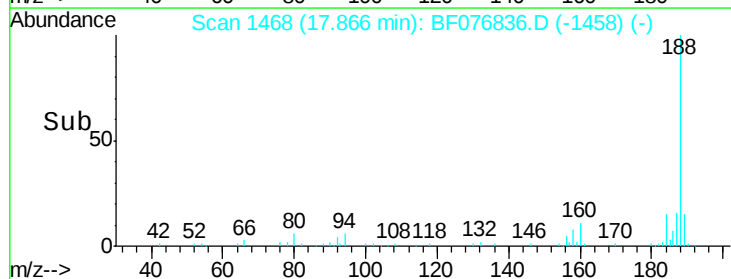
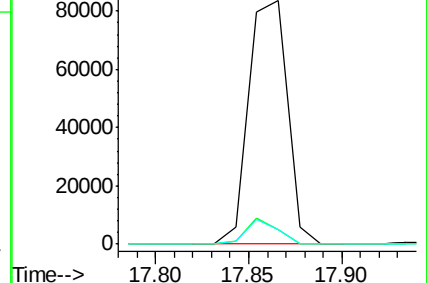
80 5.9 8.6 13.0#

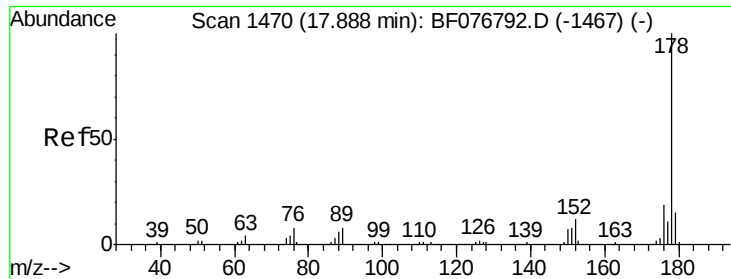


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

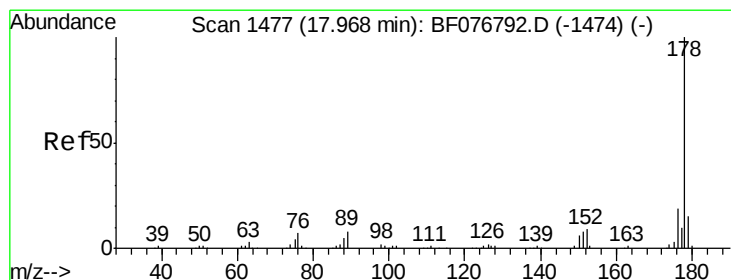
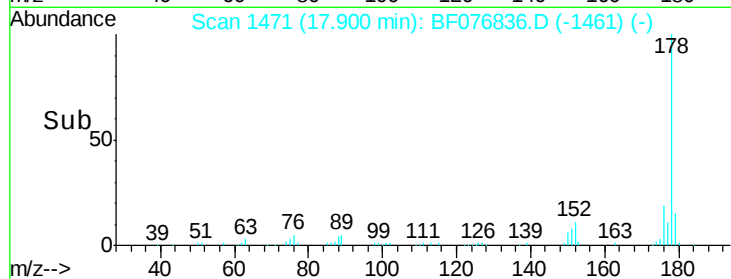
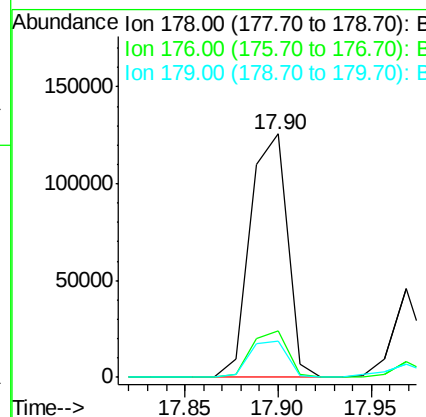
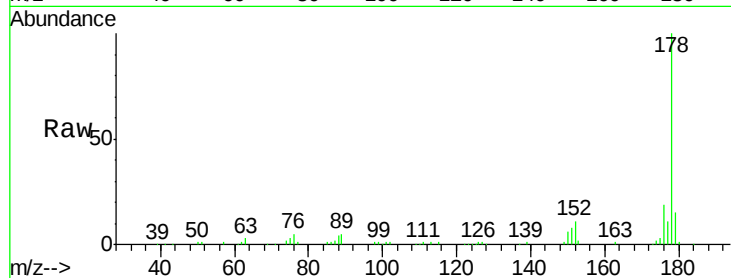




#70
Phenanthrene
Concen: 22.92 ng
RT: 17.90 min Scan# 1471
Delta R.T. 0.01 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

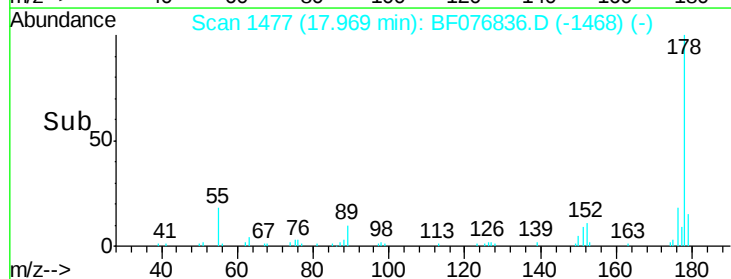
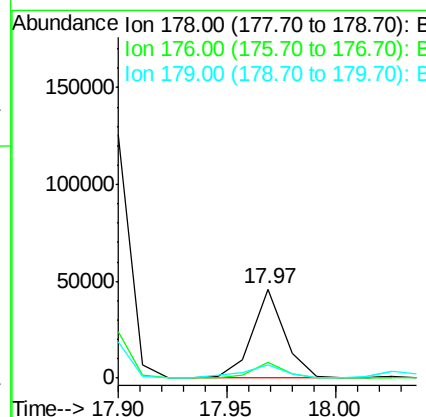
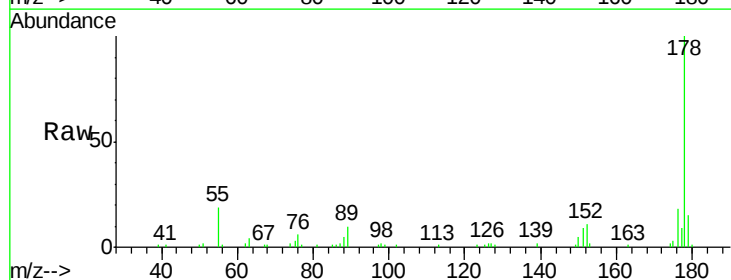
Instrument :
BNA_F
ClientSampleId :
TP3-SS-1(2-4)

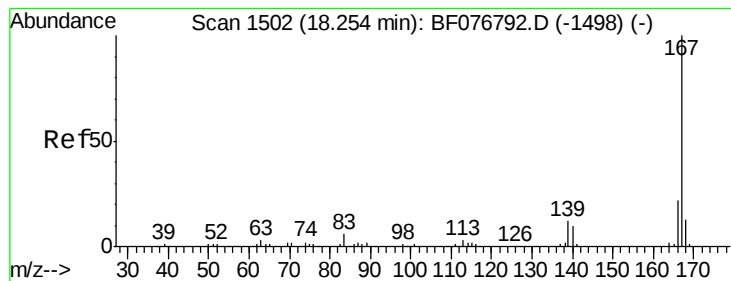
Tot Ion:178 Resp: 172867
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.0 11.8 17.8



#71
Anthracene
Concen: 6.45 ng
RT: 17.97 min Scan# 1477
Delta R.T. 0.00 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

Tgt Ion:178 Resp: 48078
Ion Ratio Lower Upper
178 100
176 17.8 15.3 22.9
179 15.4 12.2 18.4





#72

Carbazole

Concen: 2.58 ng

RT: 18.25 min Scan# 1502

Delta R.T. 0.00 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-1(2-4)

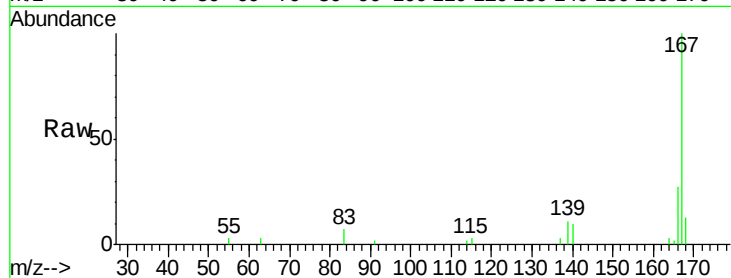
Tot Ion:167 Resp: 18593

Ion Ratio Lower Upper

167 100

166 26.6 17.2 25.8#

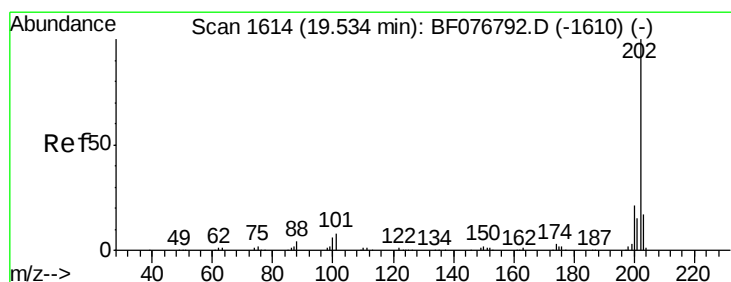
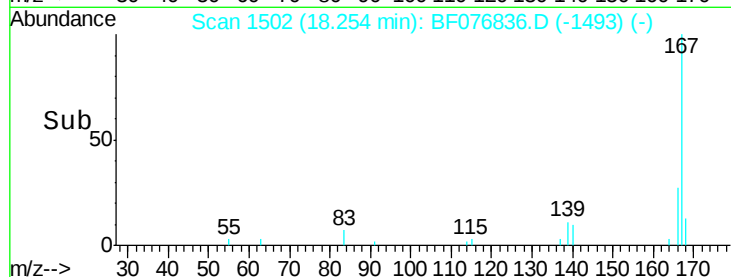
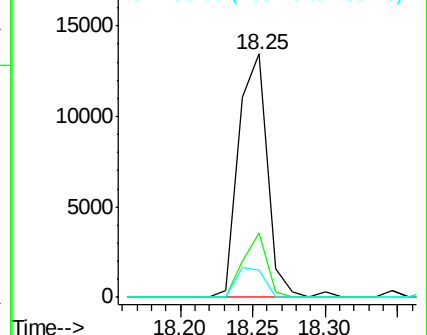
139 11.4 10.0 15.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 41.40 ng

RT: 19.53 min Scan# 1614

Delta R.T. 0.00 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

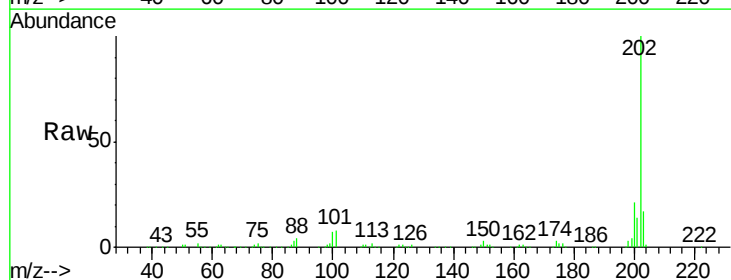
Tgt Ion:202 Resp: 322077

Ion Ratio Lower Upper

202 100

101 8.4 0.0 28.0

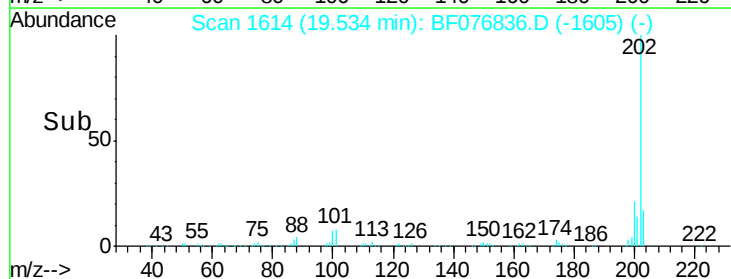
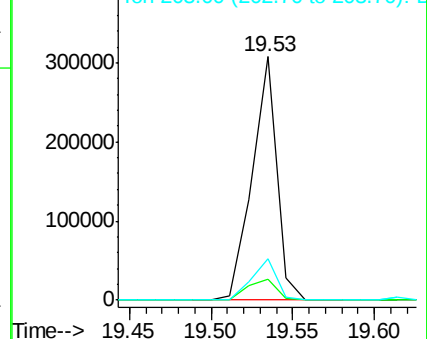
203 16.8 0.0 37.2

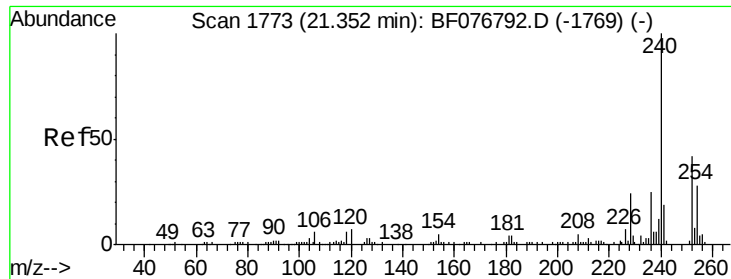


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

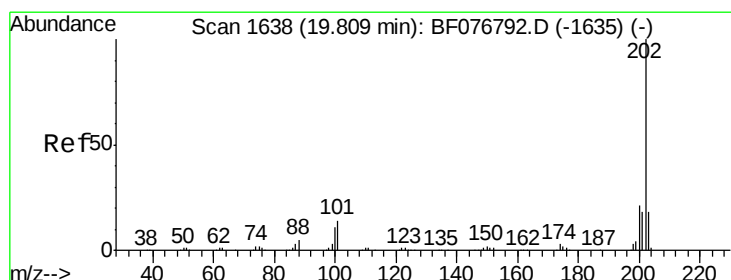
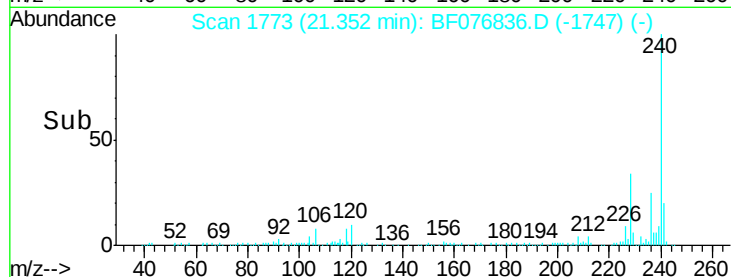
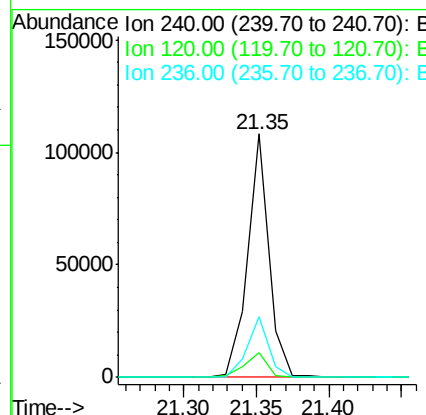
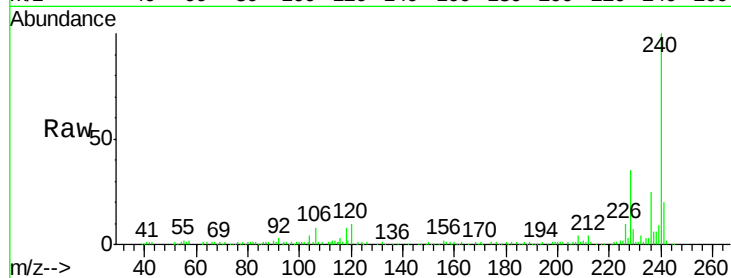




#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.35 min Scan# 1773
Delta R.T. 0.00 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

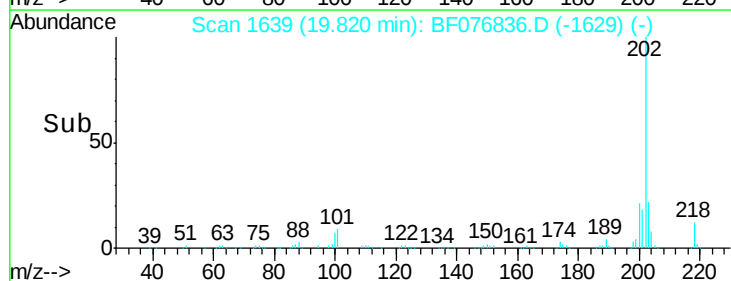
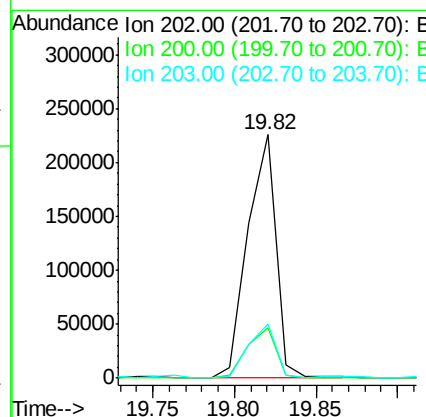
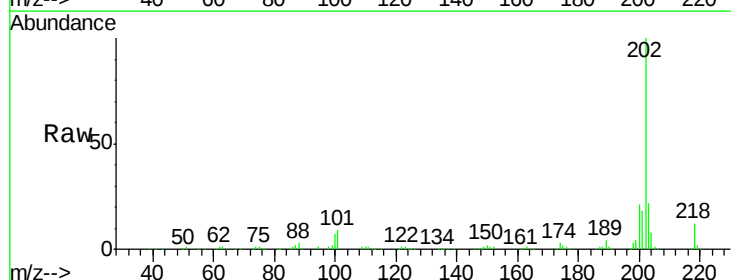
Instrument :
BNA_F
ClientSampleId :
TP3-SS-1(2-4)

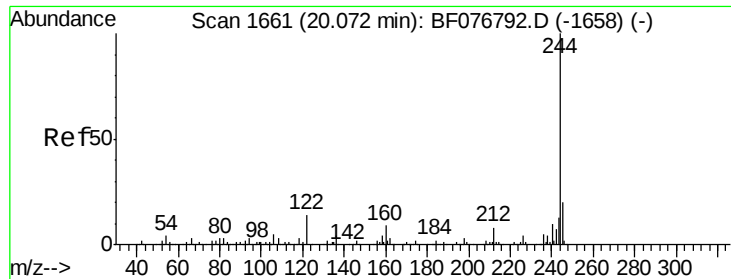
Tot Ion:240 Resp: 109986
Ion Ratio Lower Upper
240 100
120 10.3 5.7 8.5#
236 25.1 19.7 29.5



#77
Pyrene
Concen: 33.59 ng
RT: 19.82 min Scan# 1639
Delta R.T. 0.01 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

Tgt Ion:202 Resp: 270678
Ion Ratio Lower Upper
202 100
200 20.6 16.6 25.0
203 22.2 14.6 22.0#





#78

Terphenyl-d14

Concen: 48.36 ng

RT: 20.07 min Scan# 1661

Delta R.T. 0.00 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-1(2-4)

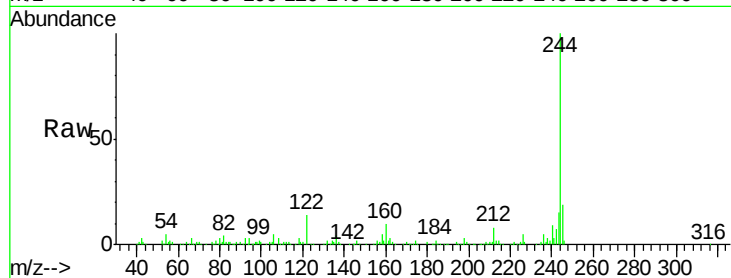
Tot Ion:244 Resp: 246944

Ion Ratio Lower Upper

244 100

212 8.0 6.2 9.2

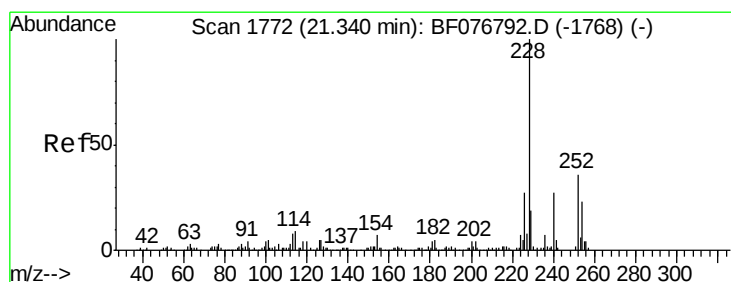
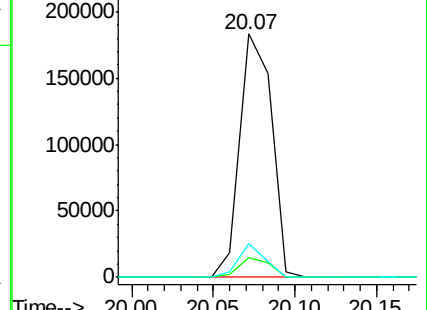
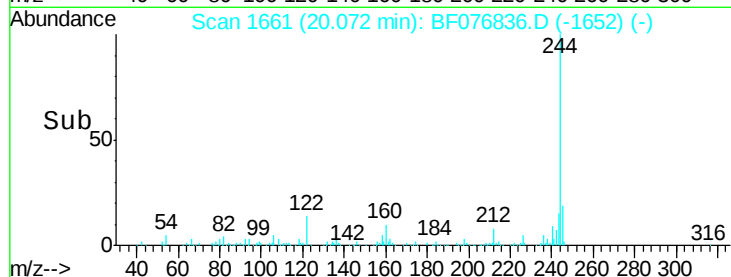
122 13.8 11.3 16.9



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: 22.97 ng

RT: 21.34 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

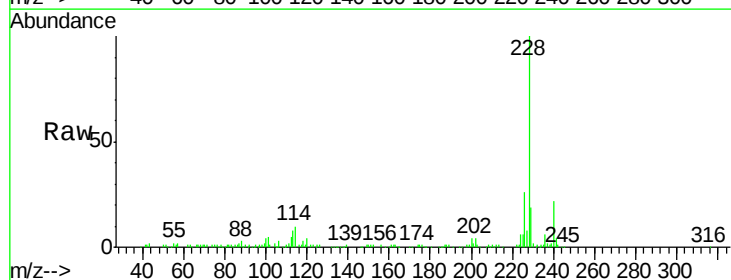
Tgt Ion:228 Resp: 163968

Ion Ratio Lower Upper

228 100

226 26.3 21.4 32.0

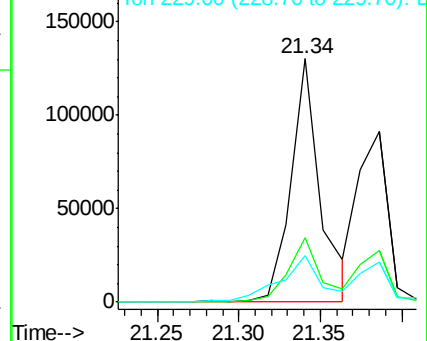
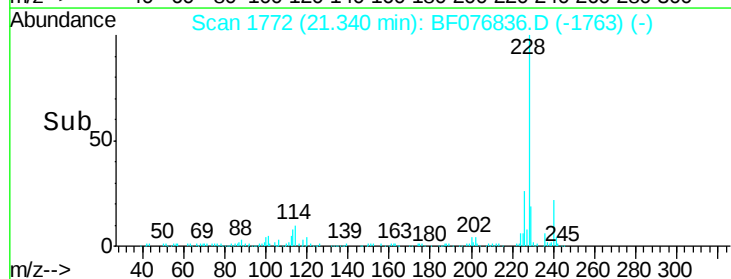
229 19.1 15.0 22.4

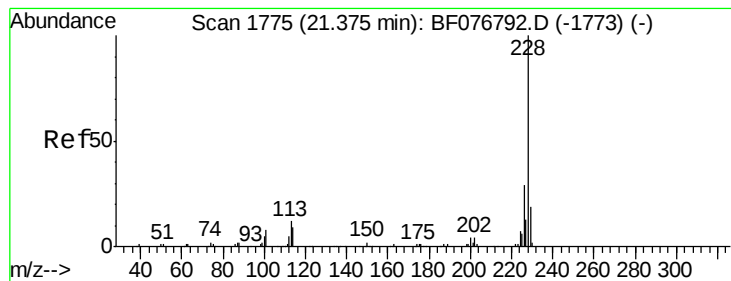


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 18.56 ng m

RT: 21.39 min Scan# 1776

Delta R.T. 0.01 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-1(2-4)

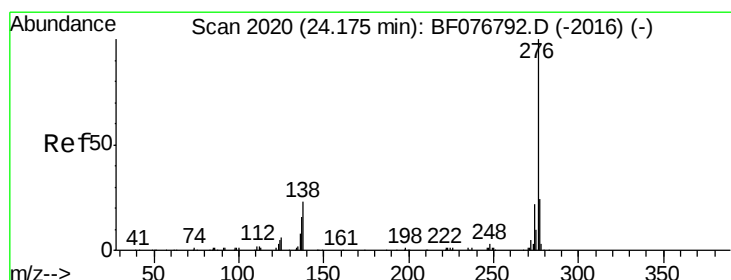
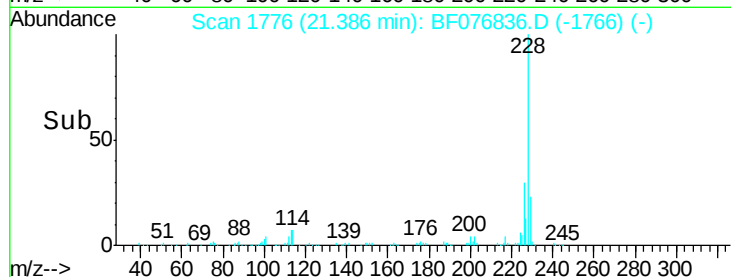
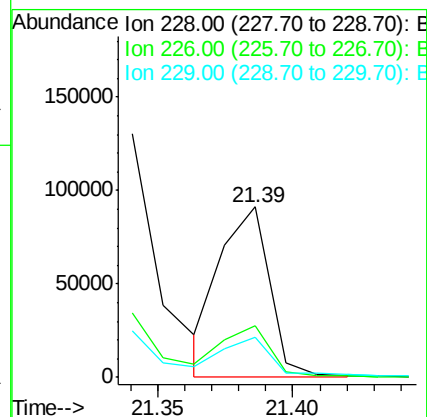
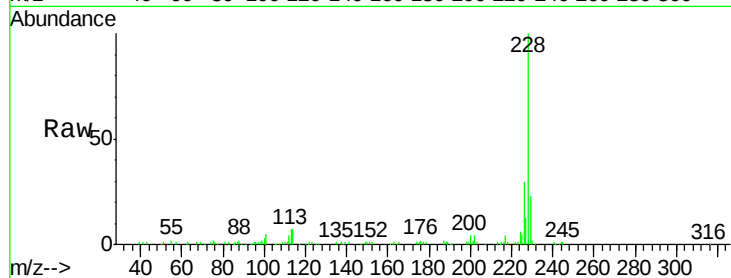
Tot Ion:228 Resp: 117800

Ion Ratio Lower Upper

228 100

226 30.2 23.3 34.9

229 23.5 14.6 22.0#



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.53 ng m

RT: 24.27 min Scan# 2028

Delta R.T. 0.09 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

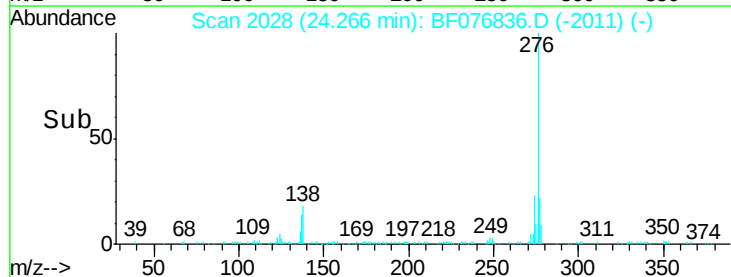
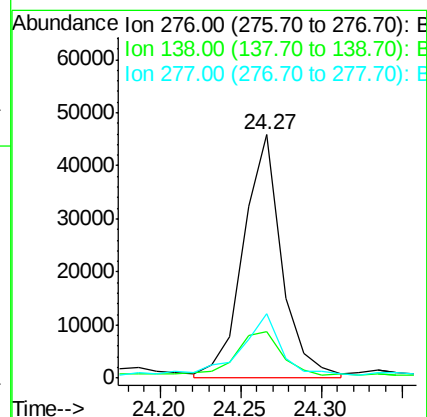
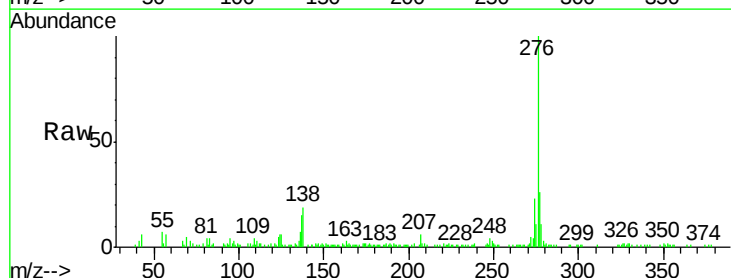
Tgt Ion:276 Resp: 76057

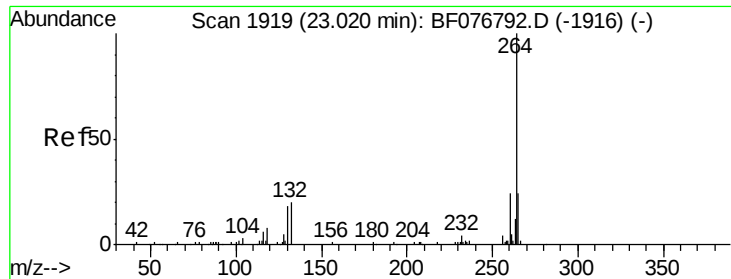
Ion Ratio Lower Upper

276 100

138 6.2 0.0 0.0#

277 4.9 0.0 0.0#



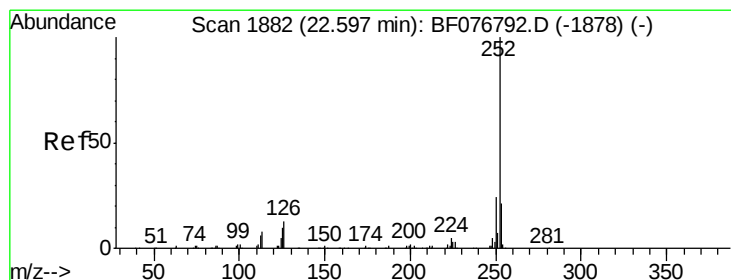
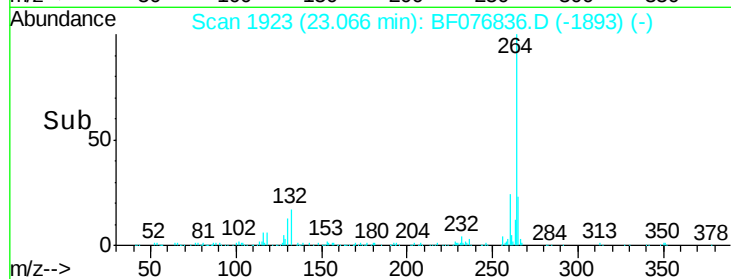
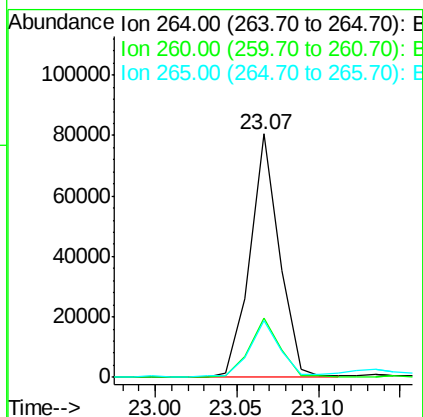
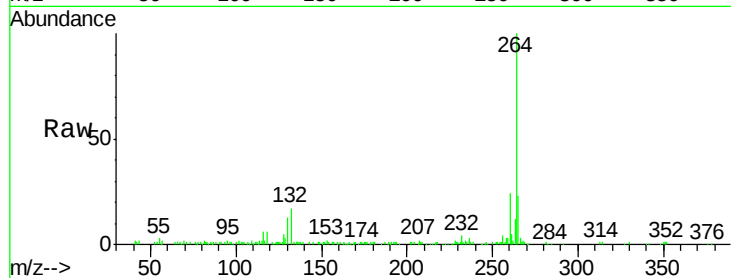


#86
Pervlene-d12
Concen: 20.00 ng
RT: 23.07 min Scan# 1923
Delta R.T. 0.05 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

Instrument :
BNA_F
ClientSampleId :
TP3-SS-1(2-4)

Tot Ion:264 Resp: 100763

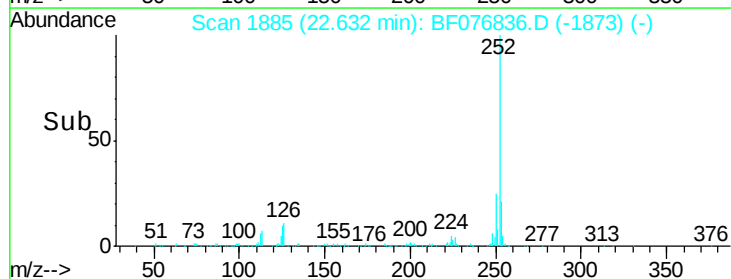
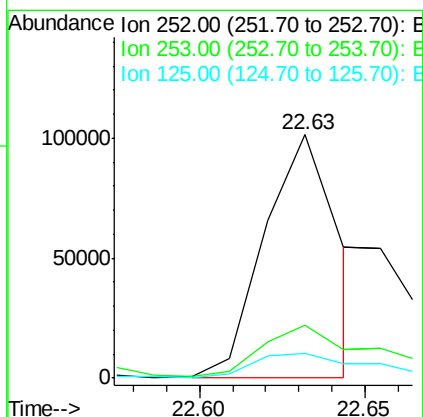
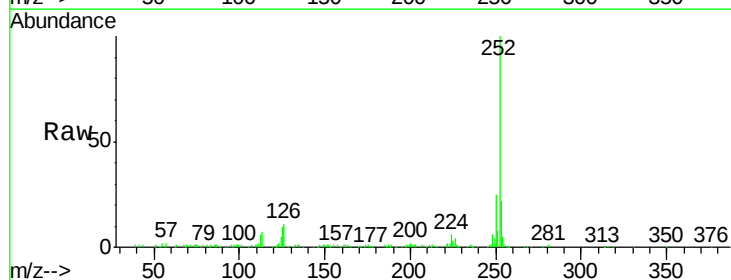
Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.4	29.0
265	23.2	18.9	28.3

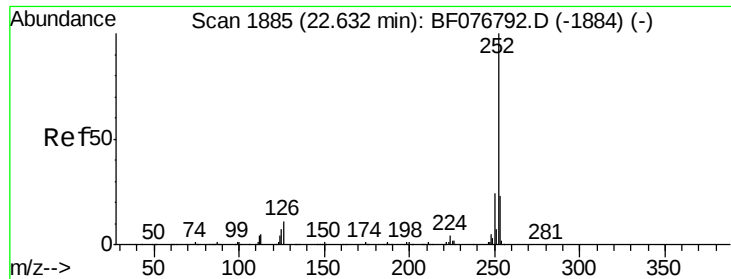


#87
Benzo(b)fluoranthene
Concen: 21.37 ng m
RT: 22.63 min Scan# 1885
Delta R.T. 0.03 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

Tgt Ion:252 Resp: 158139

Ion	Ratio	Lower	Upper
252	100		
253	21.7	16.6	25.0
125	10.2	8.1	12.1





#88

Benzo(k)fluoranthene

Concen: 10.23 ng

RT: 22.64 min Scan# 1886

Delta R.T. 0.01 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

Instrument :

BNA_F

ClientSampleId :

TP3-SS-1(2-4)

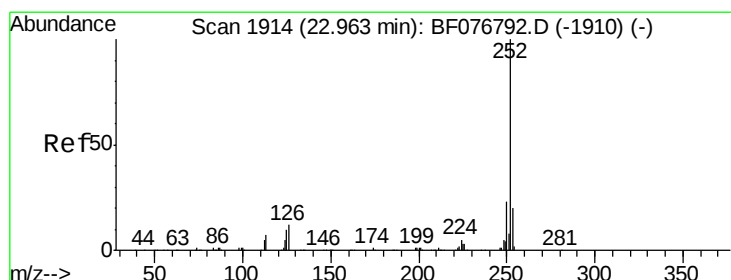
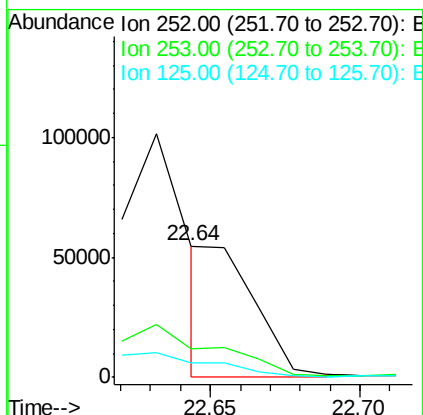
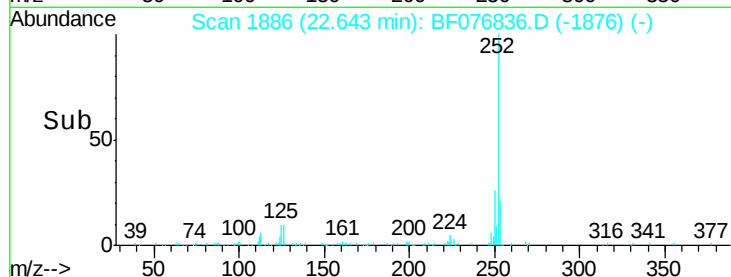
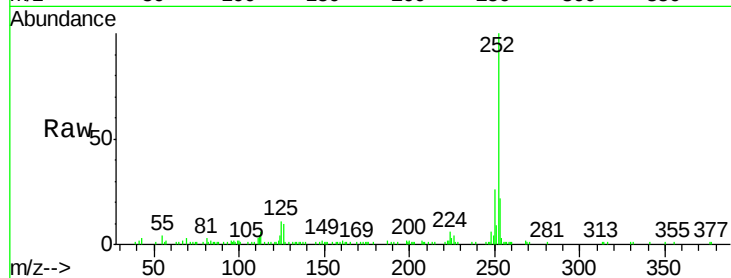
Tot Ion:252 Resp: 59721

Ion Ratio Lower Upper

252 100

253 22.2 17.7 26.5

125 10.7 7.5 11.3



#89

Benzo(a)pyrene

Concen: 19.47 ng

RT: 23.00 min Scan# 1917

Delta R.T. 0.03 min

Lab File: BF076836.D

Acq: 13 Jan 2015 8:46

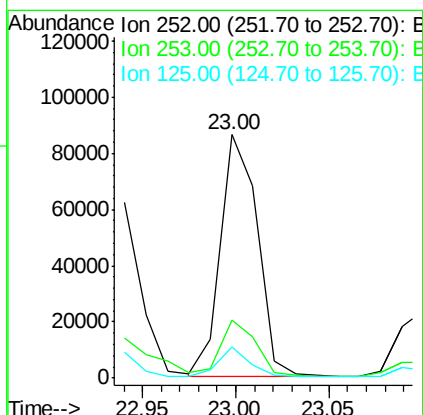
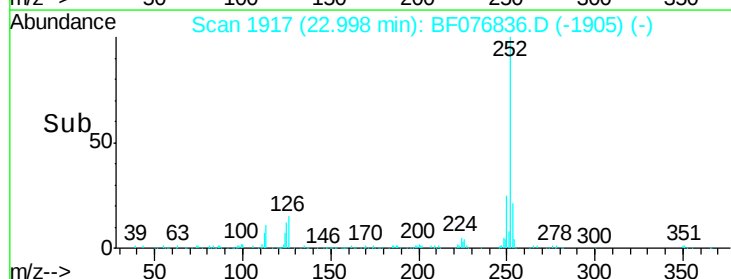
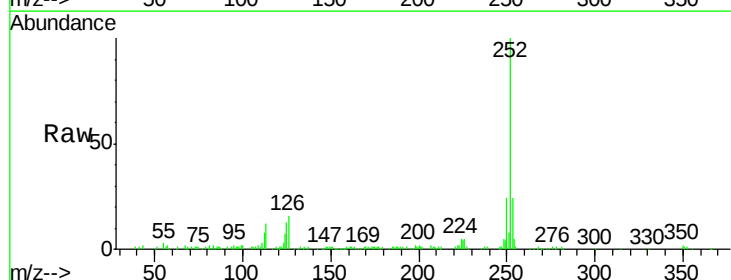
Tgt Ion:252 Resp: 119397

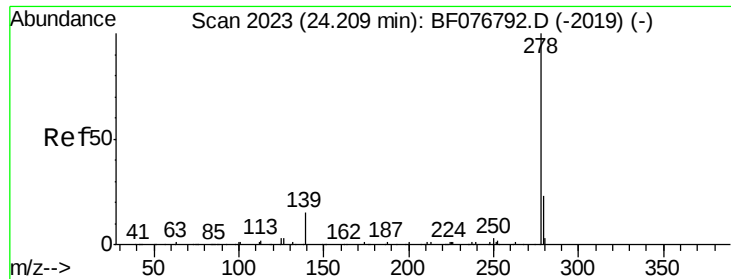
Ion Ratio Lower Upper

252 100

253 23.9 16.2 24.4

125 12.8 7.8 11.6#

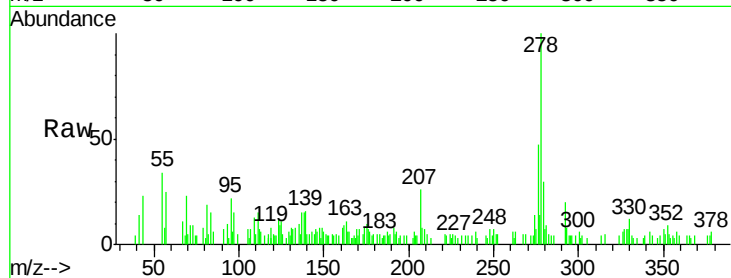




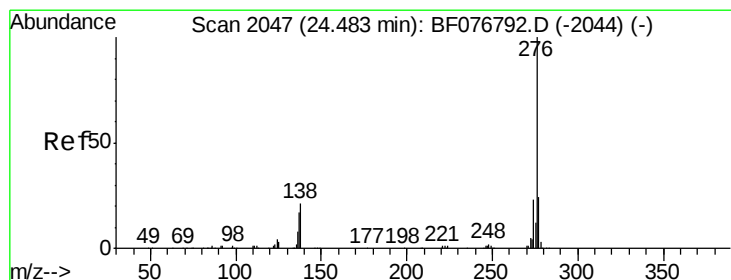
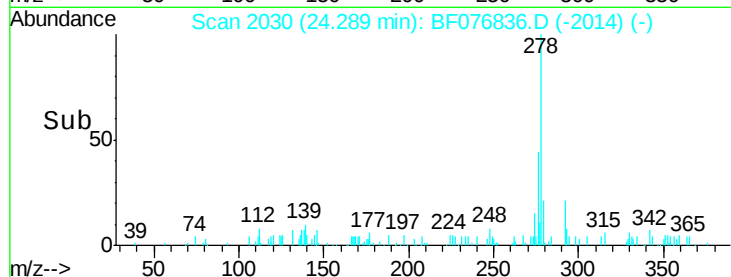
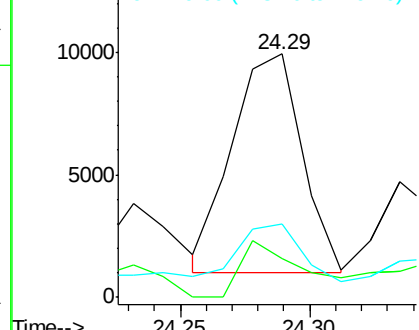
#90
Dibenzo(a,h)anthracene
Concen: 2.99 ng m
RT: 24.29 min Scan# 2030
Delta R.T. 0.08 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

Instrument :
BNA_F
ClientSampleId :
TP3-SS-1(2-4)

Tot Ion:278 Resp: 16699
Ion Ratio Lower Upper
278 100
139 15.8 12.2 18.4
279 30.4 17.9 26.9#

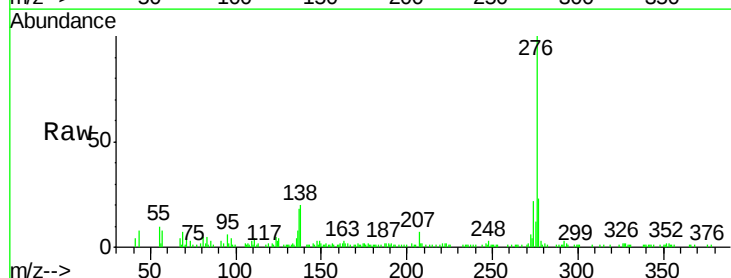


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 12.08 ng m
RT: 24.57 min Scan# 2055
Delta R.T. 0.09 min
Lab File: BF076836.D
Acq: 13 Jan 2015 8:46

Tgt Ion:276 Resp: 68425
Ion Ratio Lower Upper
276 100
277 22.9 19.0 28.6
138 19.9 16.7 25.1



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

