

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091415\
 Data File : BF081608.D
 Acq On : 14 Sep 2015 15:10
 Operator : UM/IZ
 Sample : G3597-02 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GP-2(0-5)

Quant Time: Sep 15 01:49:58 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF090115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 14 13:51:56 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.23	152	43986	20.00	ng	0.00
21) Naphthalene-d8	11.12	136	176889	20.00	ng	-0.01
38) Acenaphthene-d10	15.26	164	85101	20.00	ng	-0.01
63) Phenanthrene-d10	18.77	188	167772	20.00	ng	0.00
75) Chrysene-d12	23.40	240	107816	20.00	ng	0.00
86) Perylene-d12	24.84	264	96721	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	63645	22.45	ng	0.00
7) Phenol-d6	7.63	99	93692	24.97	ng	-0.02
23) Nitrobenzene-d5	9.51	82	60717	16.56	ng	-0.03
41) 2,4,6-Tribromophenol	17.16	330	18313	24.17	ng	-0.02
44) 2-Fluorobiphenyl	13.76	172	110107	16.58	ng	-0.02
78) Terphenyl-d14	22.12	244	88686	19.15	ng	0.00

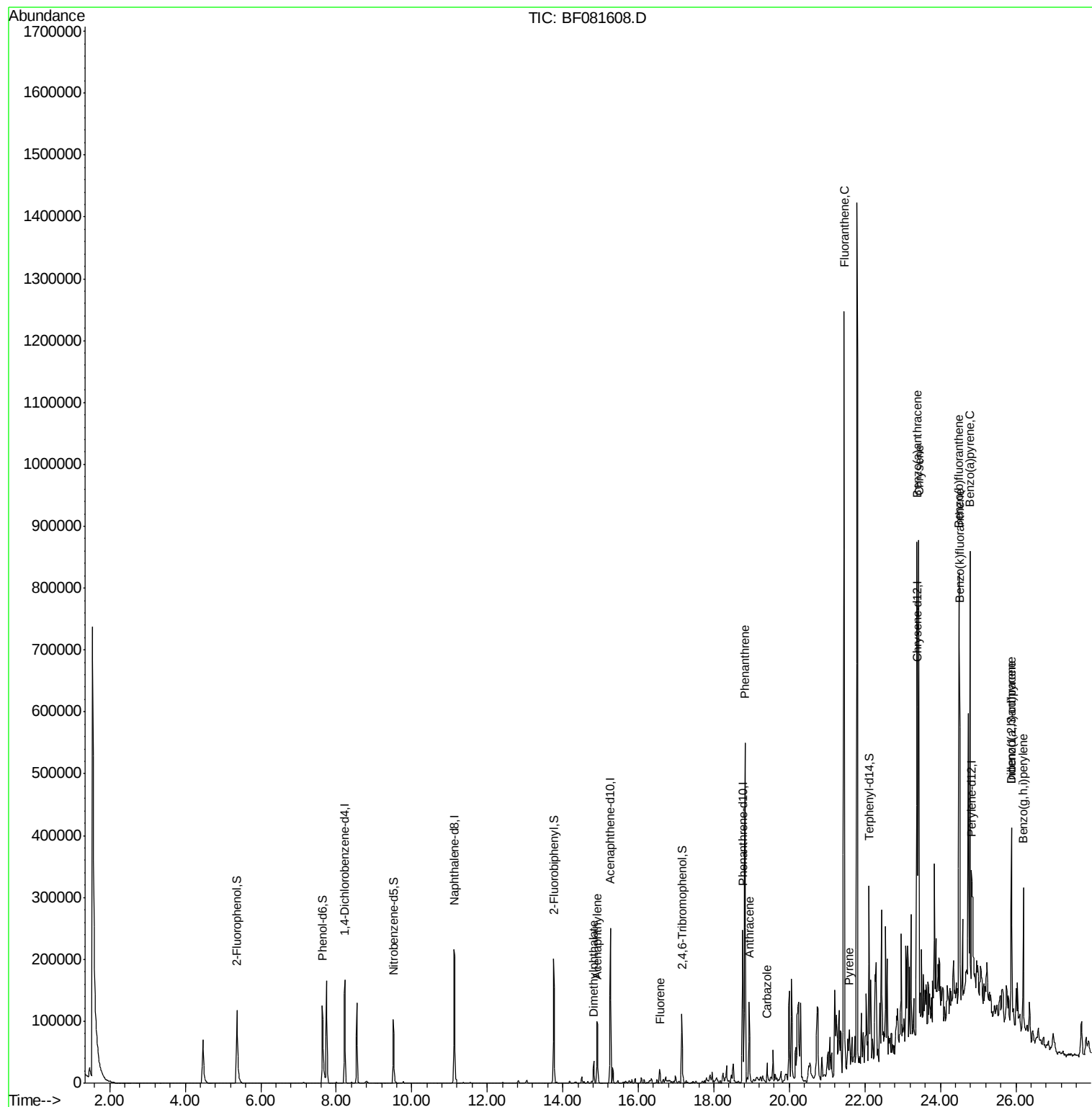
Target Compounds				Qvalue		
48) Acenaphthylene	14.92	152	88154	8.79	ng	98
49) Dimethylphthalate	14.82	163	25688	3.89	ng	# 96
57) Fluorene	16.57	166	13859	2.19	ng	91
70) Phenanthrene	18.82	178	367285	39.38	ng	98
71) Anthracene	18.94	178	84583	8.83	ng	99
72) Carbazole	19.42	167	23210	2.58	ng	93
74) Fluoranthene	21.45	202	773380	76.59	ng	89
77) Pyrene	21.59	202	34424	4.31	ng	95
80) Benzo(a)anthracene	23.38	228	394017	57.39	ng	95
82) Chrysene	23.43	228	346397	56.28	ng	94
85) Indeno(1,2,3-cd)pyrene	25.89	276	161473	35.76	ng	# 79
87) Benzo(b)fluoranthene	24.49	252	368614m	53.38	ng	
88) Benzo(k)fluoranthene	24.50	252	140524m	24.53	ng	
89) Benzo(a)pyrene	24.79	252	336231	57.46	ng	# 81
90) Dibenzo(a,h)anthracene	25.89	278	48305m	10.68	ng	
91) Benzo(g,h,i)perylene	26.20	276	148468	34.40	ng	# 72

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

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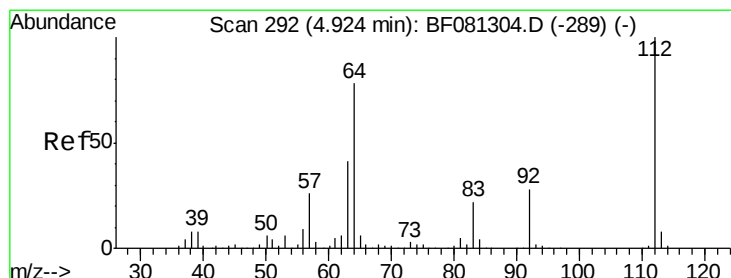
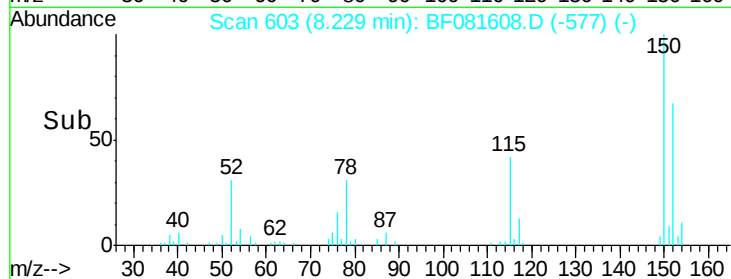
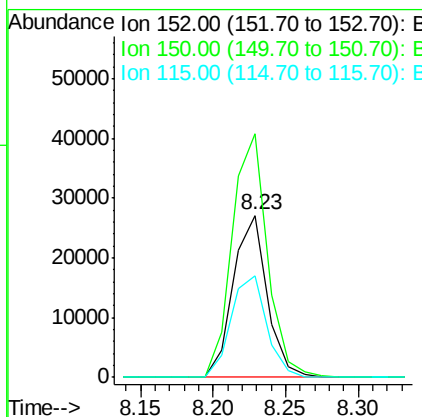
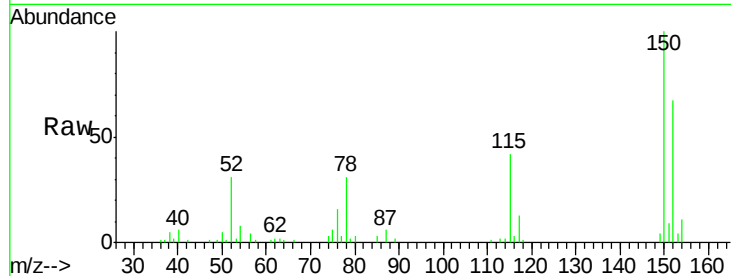


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.23 min Scan# 603
Delta R.T. 0.00 min
Lab File: BF081608.D
Acq: 14 Sep 2015 15:10

Instrument :
BNA_F
ClientSampled :
GP-2(0-5)

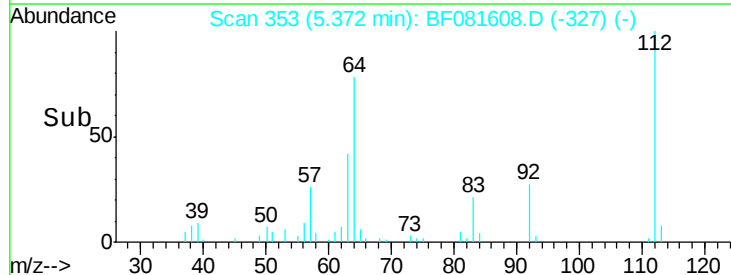
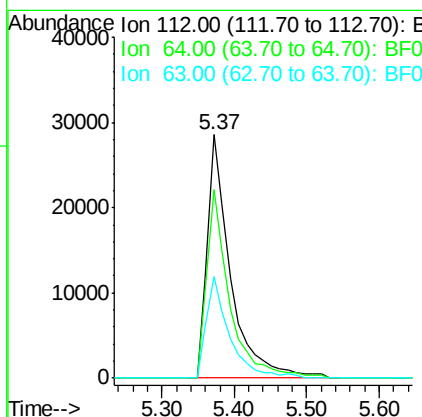
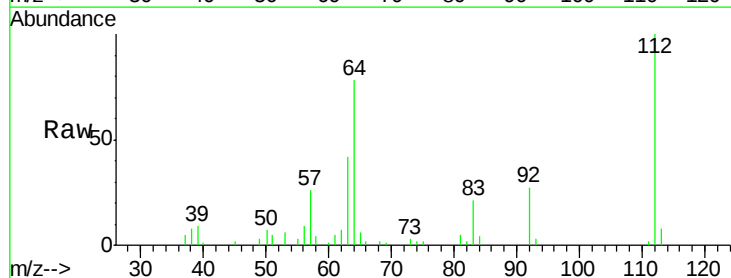
Tgt Ion:152 Resp: 43986
Ion Ratio Lower Upper
152 100
150 150.0 124.7 187.1
115 62.5 39.0 58.4#

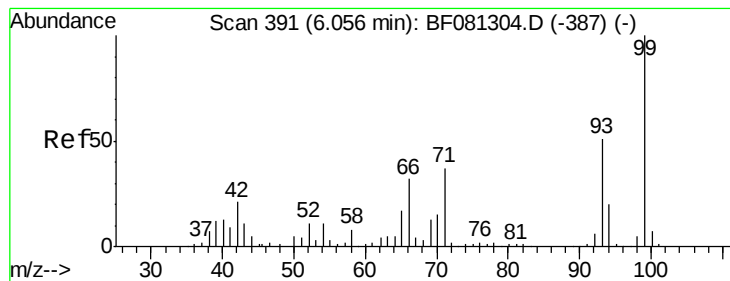


#5

2-Fluorophenol
Concen: 22.45 ng
RT: 5.37 min Scan# 353
Delta R.T. 0.00 min
Lab File: BF081608.D
Acq: 14 Sep 2015 15:10

Tgt Ion:112 Resp: 63645
Ion Ratio Lower Upper
112 100
64 77.7 39.7 59.5#
63 41.9 17.4 26.0#





#7

Phenol-d6

Concen: 24.97 ng

RT: 7.63 min Scan# 551

Delta R.T. -0.02 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Instrument :

BNA_F

ClientSampleId :

GP-2(0-5)

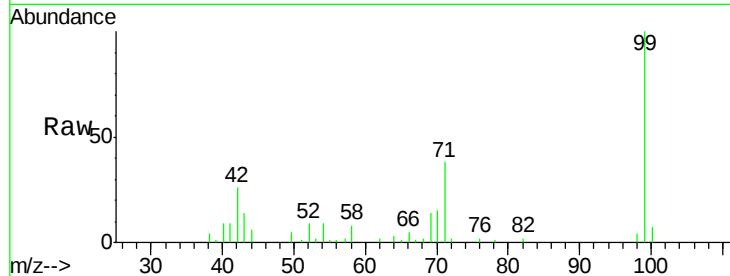
Tgt Ion: 99 Resp: 93692

Ion Ratio Lower Upper

99 100

42 25.6 13.7 20.5#

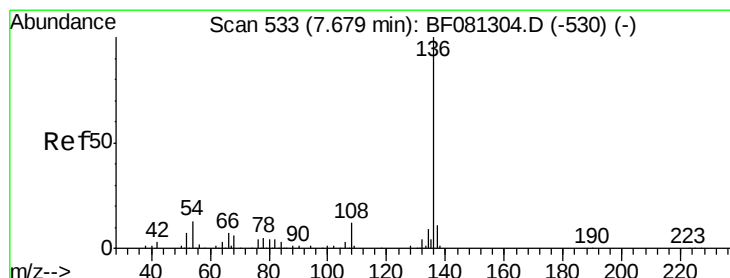
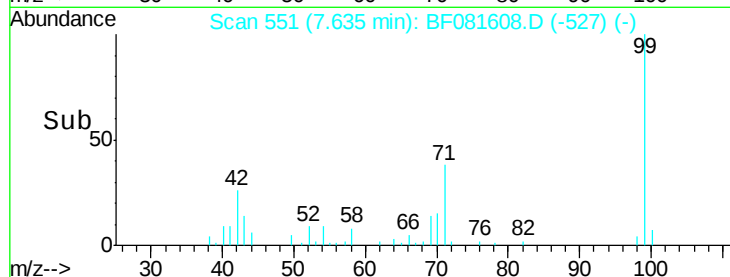
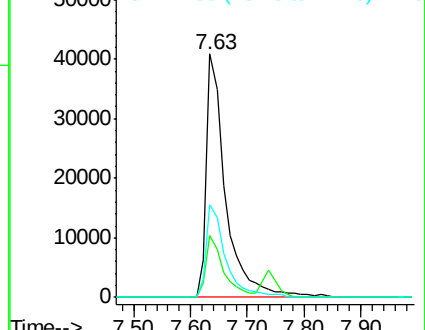
71 37.8 14.2 21.2#



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: 11.12 min Scan# 856

Delta R.T. -0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Tgt Ion: 136 Resp: 176889

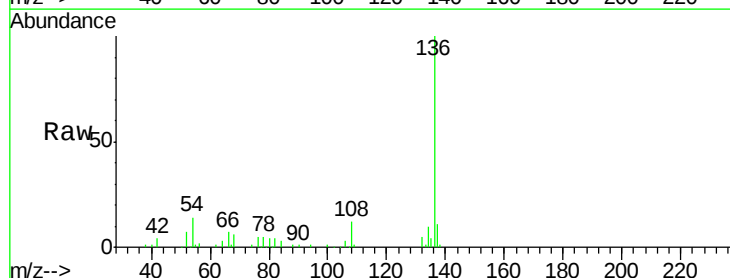
Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.6

54 13.7 8.2 12.2#

68 5.7 5.8 8.6#

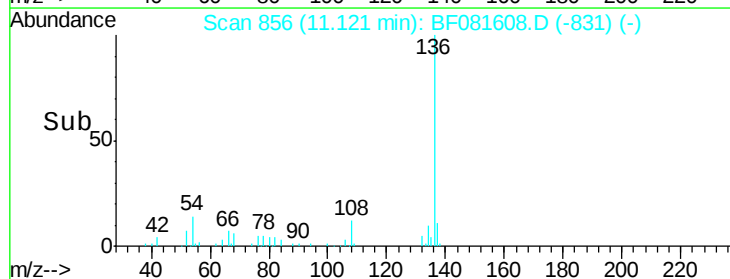
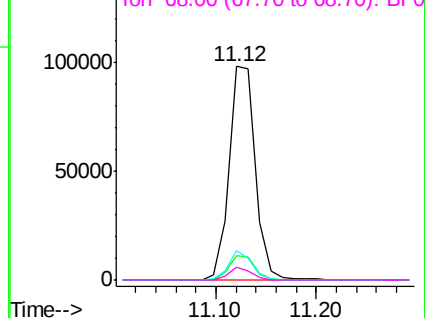


Abundance Ion 136.00 (135.70 to 136.70): E

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

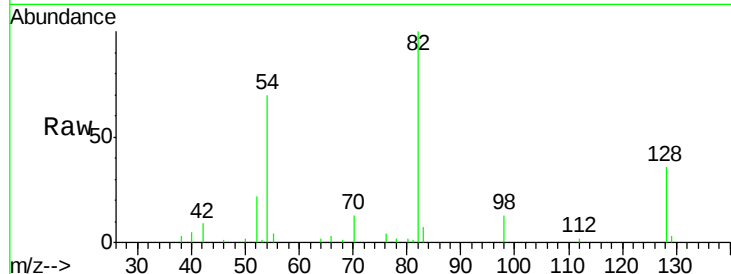




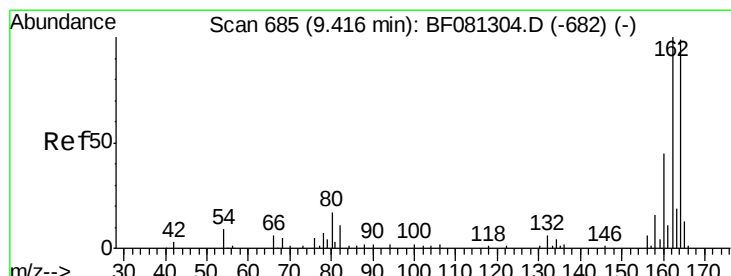
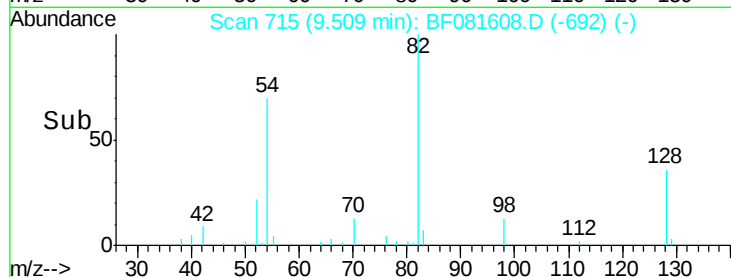
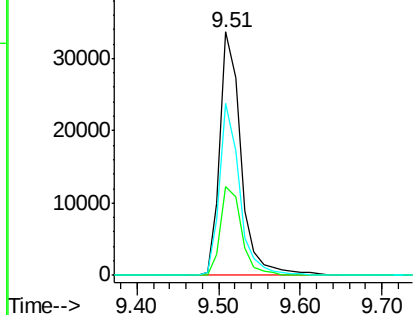
#23
Nitrobenzene-d5
Concen: 16.56 ng
RT: 9.51 min Scan# 715
Delta R.T. -0.03 min
Lab File: BF081608.D
Acq: 14 Sep 2015 15:10

Instrument :
BNA_F
ClientSampleId :
GP-2(0-5)

Tgt Ion: 82 Resp: 60717
Ion Ratio Lower Upper
82 100
128 36.2 51.0 76.6#
54 70.5 47.5 71.3

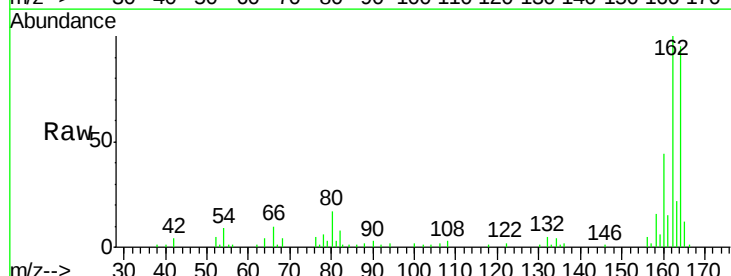


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

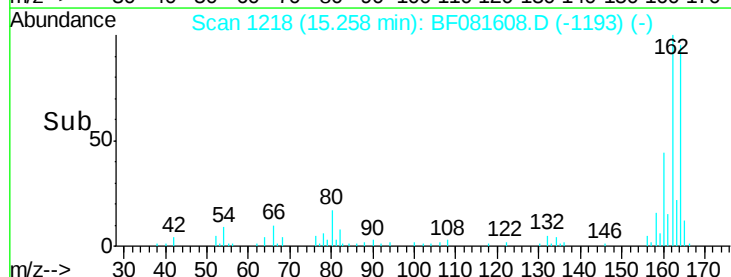
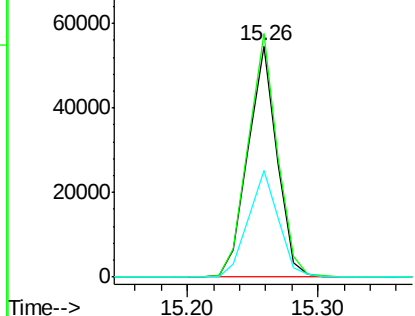


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 15.26 min Scan# 1218
Delta R.T. -0.01 min
Lab File: BF081608.D
Acq: 14 Sep 2015 15:10

Tgt Ion: 164 Resp: 85101
Ion Ratio Lower Upper
164 100
162 105.2 75.2 112.8
160 46.0 31.5 47.3



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

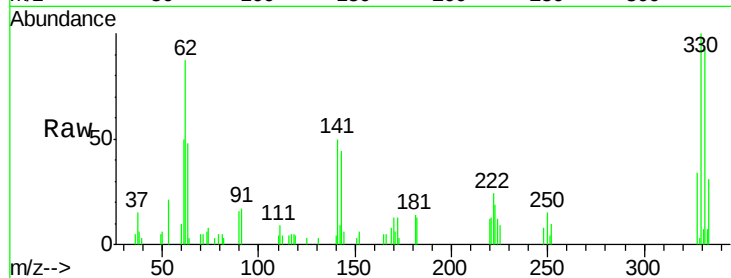




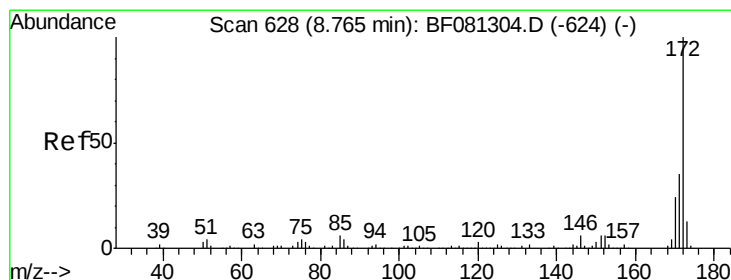
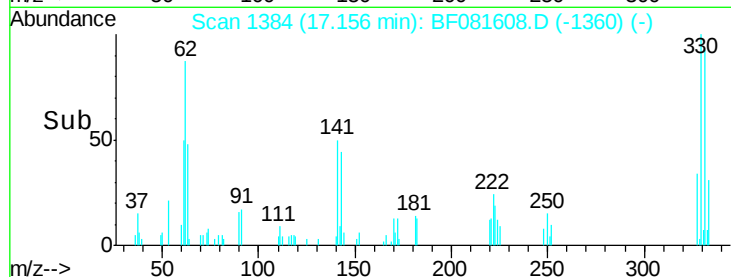
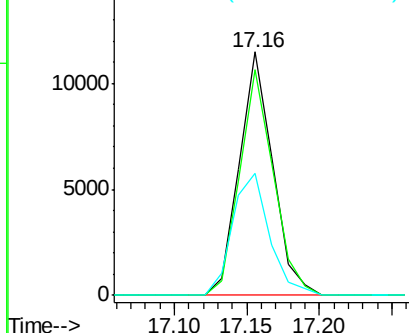
#41
 2,4,6-Tribromophenol
 Concen: 24.17 ng
 RT: 17.16 min Scan# 1384
 Delta R.T. -0.02 min
 Lab File: BF081608.D
 Acq: 14 Sep 2015 15:10

Instrument :
 BNA_F
 ClientSampleId :
 GP-2(0-5)

Tgt Ion:330 Resp: 18313
 Ion Ratio Lower Upper
 330 100
 332 93.8 76.6 114.8
 141 55.8 29.7 44.5#

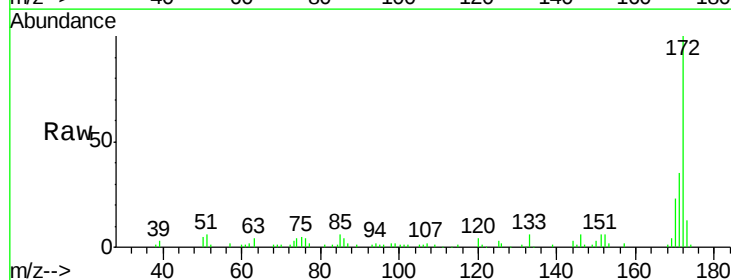


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

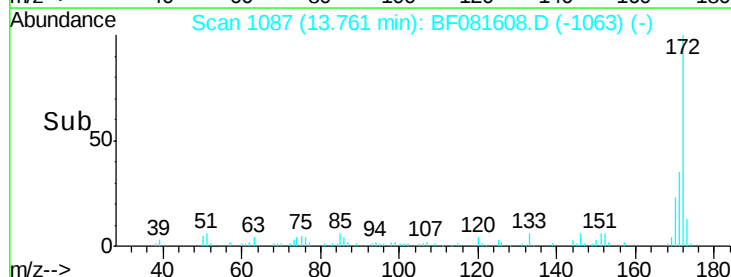
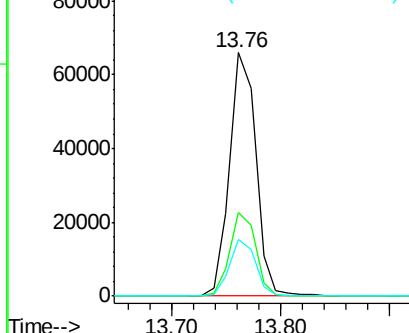


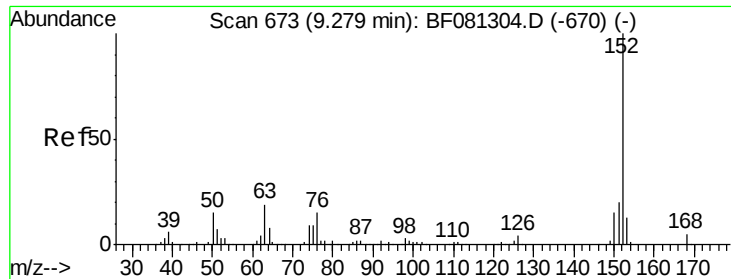
#44
 2-Fluorobiphenyl
 Concen: 16.58 ng
 RT: 13.76 min Scan# 1087
 Delta R.T. -0.02 min
 Lab File: BF081608.D
 Acq: 14 Sep 2015 15:10

Tgt Ion:172 Resp: 110107
 Ion Ratio Lower Upper
 172 100
 171 34.5 26.1 39.1
 170 23.3 17.4 26.2



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: 8.79 ng

RT: 14.92 min Scan# 1188

Delta R.T. -0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Instrument :

BNA_F

ClientSampleId :

GP-2(0-5)

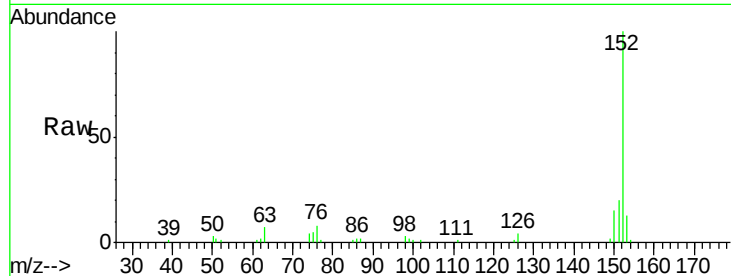
Tgt Ion:152 Resp: 88154

Ion Ratio Lower Upper

152 100

151 19.8 14.6 22.0

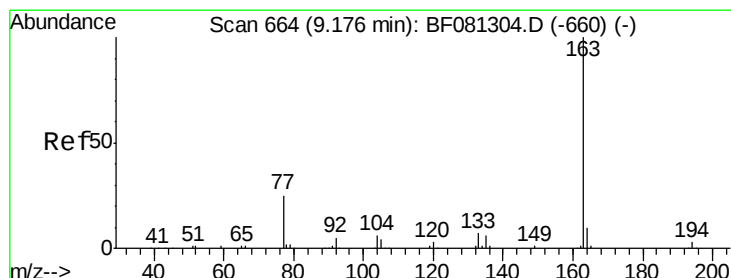
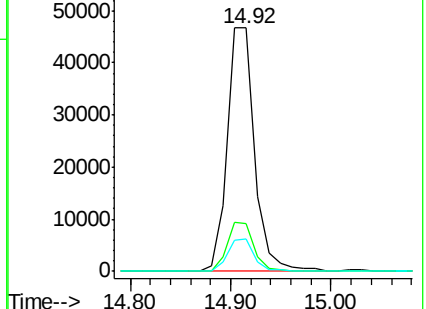
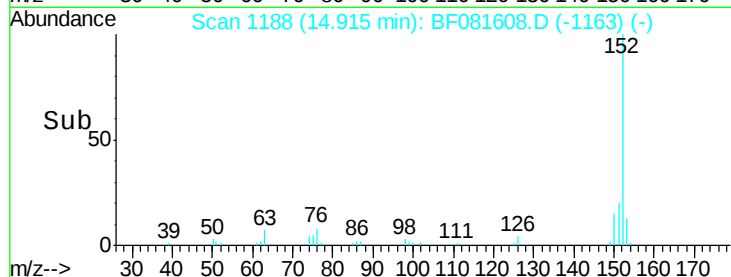
153 13.1 10.3 15.5



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: 3.89 ng

RT: 14.82 min Scan# 1180

Delta R.T. -0.05 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

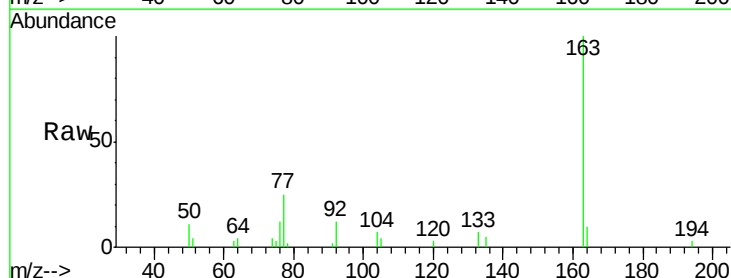
Tgt Ion:163 Resp: 25688

Ion Ratio Lower Upper

163 100

194 3.0 4.4 6.6#

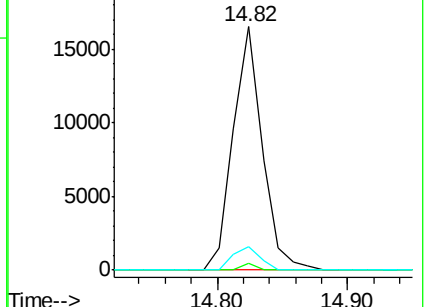
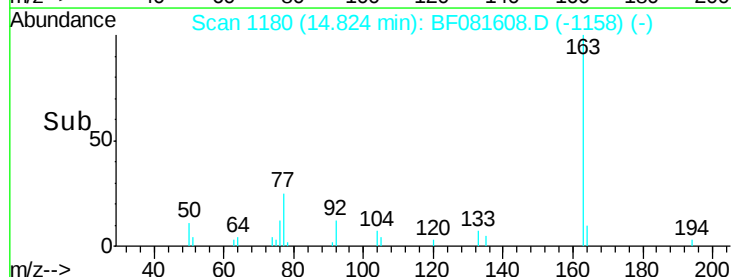
164 9.6 8.3 12.5

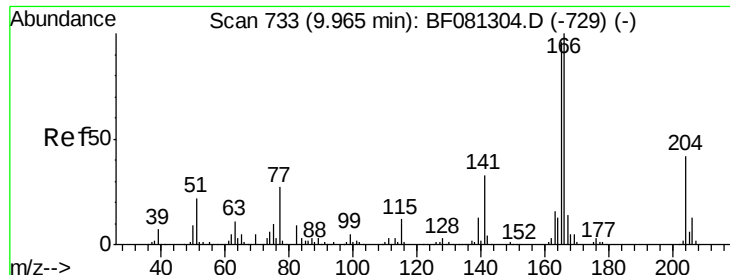


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#57

Fluorene

Concen: 2.19 ng

RT: 16.57 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Instrument :

BNA_F

ClientSampleId :

GP-2(0-5)

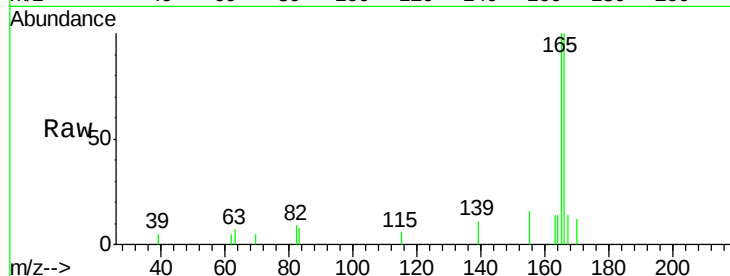
Tgt Ion:166 Resp: 13859

Ion Ratio Lower Upper

166 100

165 100.4 72.6 109.0

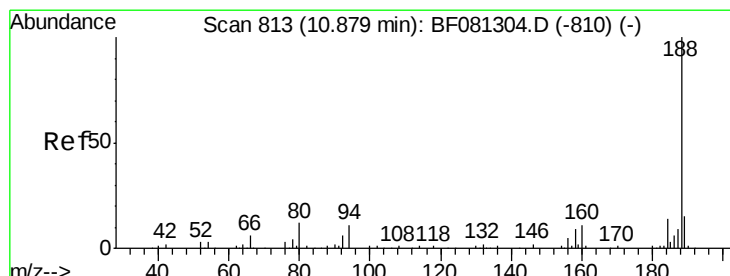
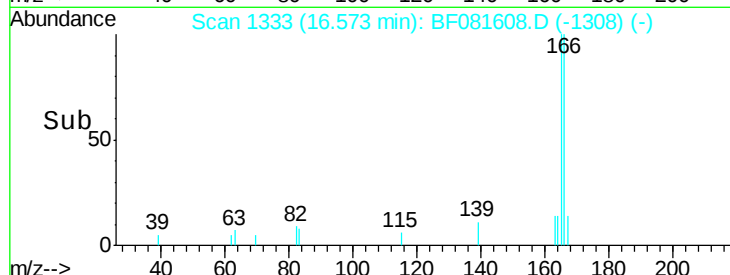
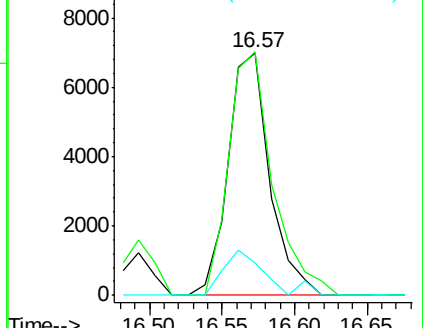
167 13.6 10.6 16.0



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: 18.77 min Scan# 1525

Delta R.T. 0.00 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

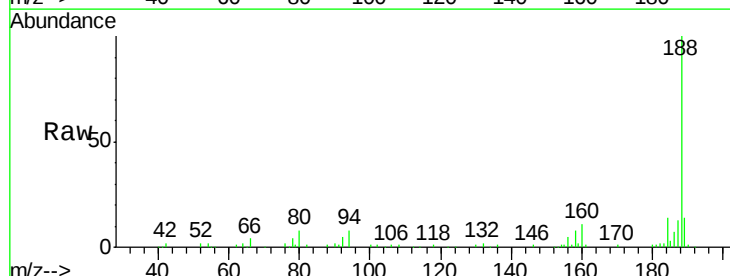
Tgt Ion:188 Resp: 167772

Ion Ratio Lower Upper

188 100

94 7.5 11.1 16.7#

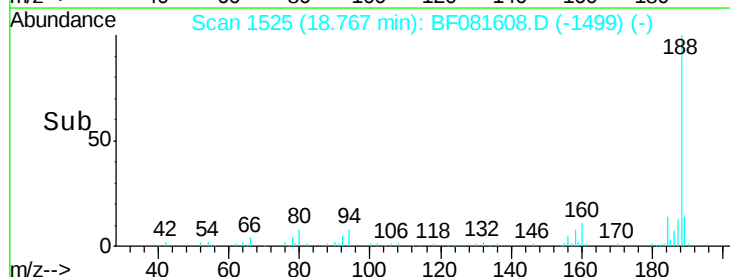
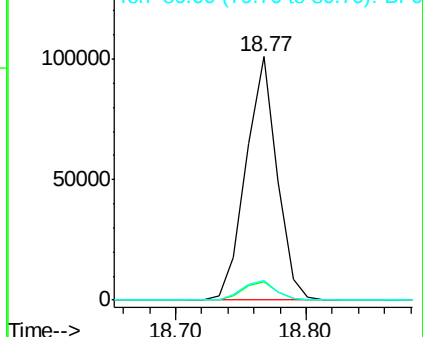
80 8.1 11.0 16.4#

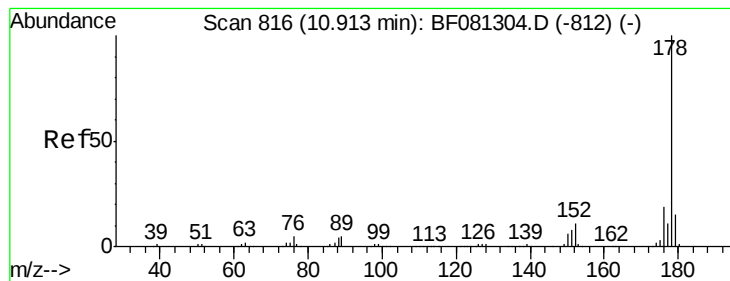


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 39.38 ng

RT: 18.82 min Scan# 1530

Delta R.T. -0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Instrument :

BNA_F

ClientSampleId :

GP-2(0-5)

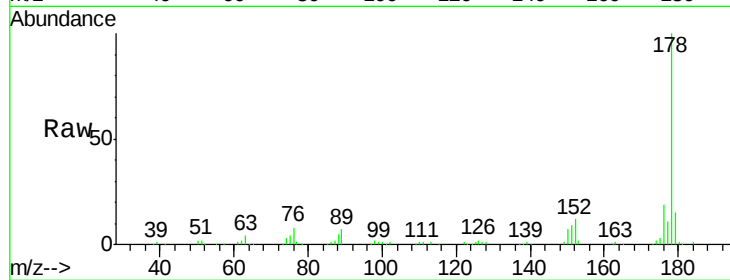
Tgt Ion:178 Resp: 367285

Ion Ratio Lower Upper

178 100

176 18.8 13.8 20.8

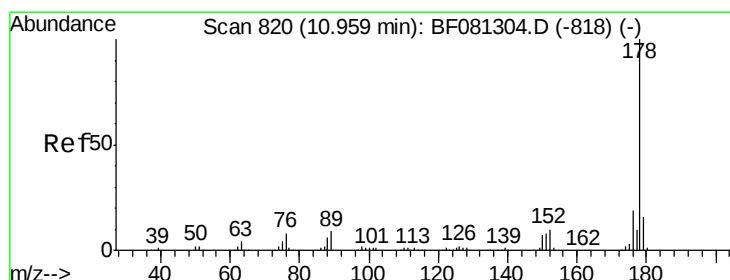
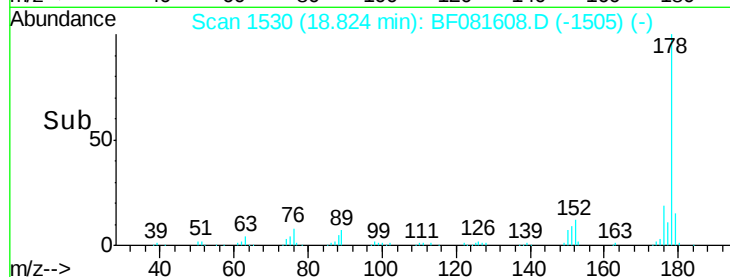
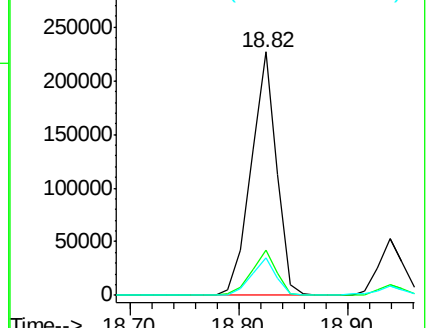
179 15.3 12.2 18.2



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: 8.83 ng

RT: 18.94 min Scan# 1540

Delta R.T. -0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

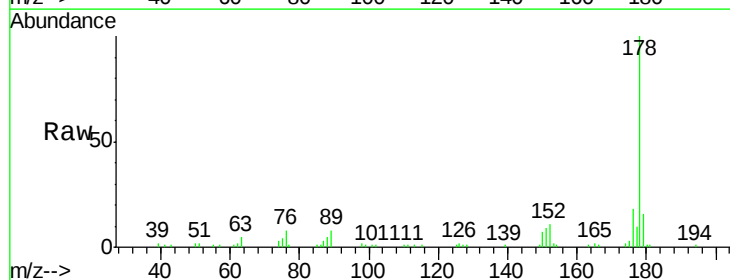
Tgt Ion:178 Resp: 84583

Ion Ratio Lower Upper

178 100

176 17.8 14.1 21.1

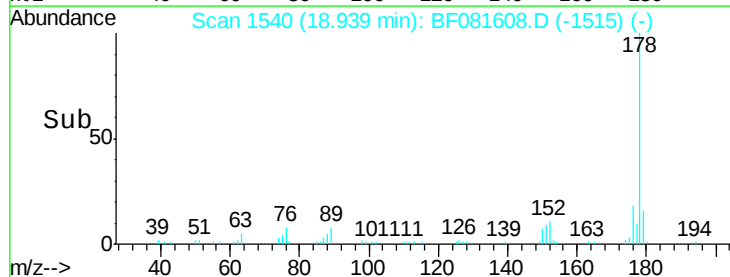
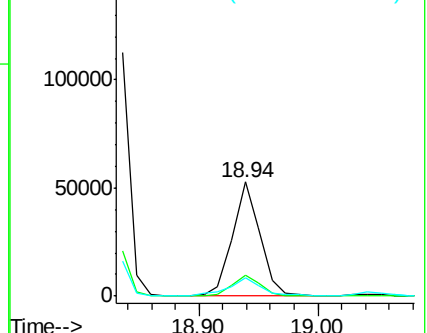
179 16.0 12.2 18.2

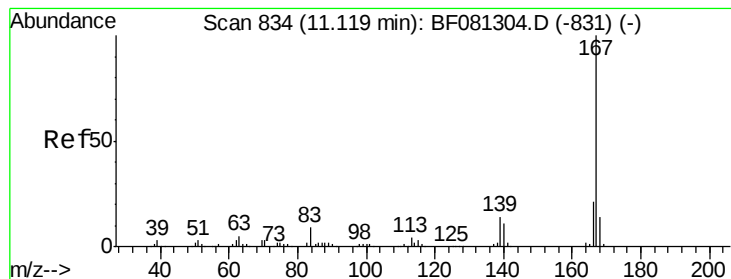


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.58 ng

RT: 19.42 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Instrument :

BNA_F

ClientSampleId :

GP-2(0-5)

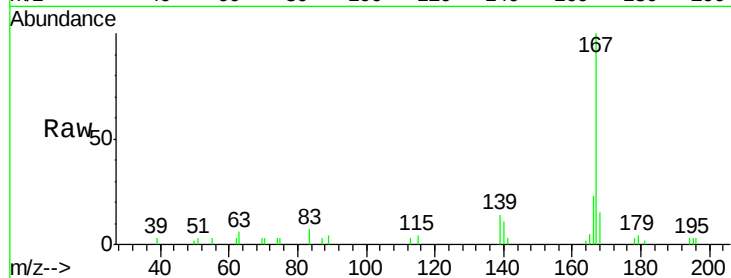
Tgt Ion:167 Resp: 23210

Ion Ratio Lower Upper

167 100

166 23.3 15.7 23.5

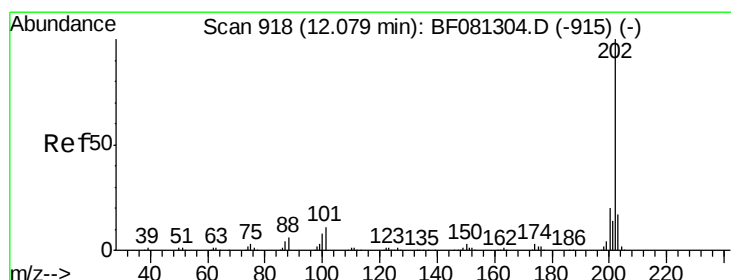
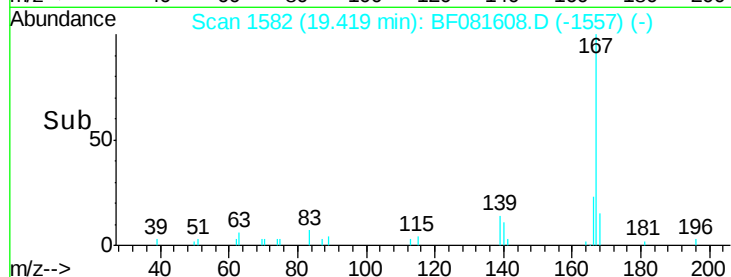
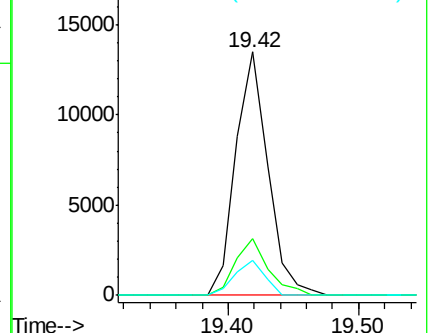
139 14.2 9.5 14.3



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: 76.59 ng

RT: 21.45 min Scan# 1760

Delta R.T. 0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

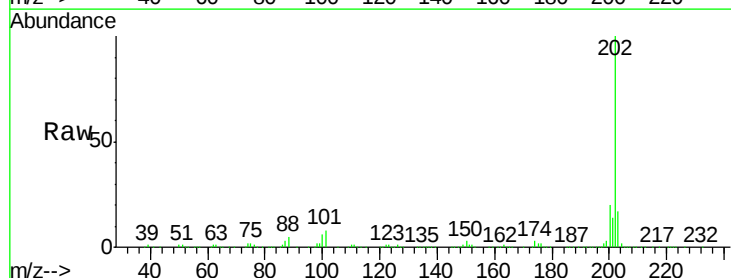
Tgt Ion:202 Resp: 773380

Ion Ratio Lower Upper

202 100

101 8.5 0.0 38.3

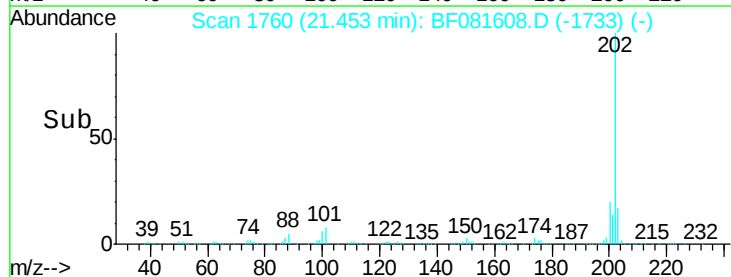
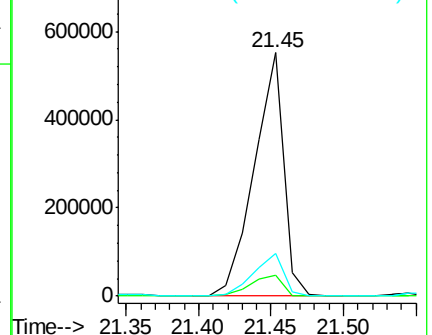
203 17.3 0.0 37.3

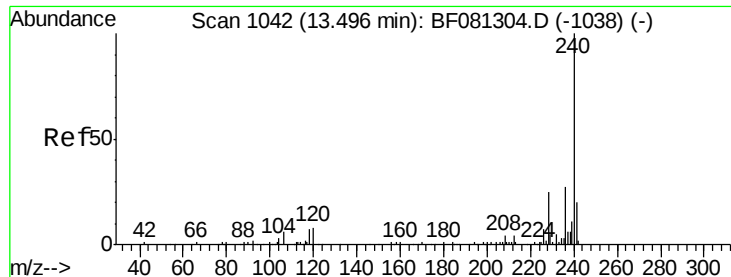


Abundance Ion 202.00 (201.70 to 202.70): E

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: 23.40 min Scan# 1930

Delta R.T. 0.00 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Instrument :

BNA_F

ClientSampleId :

GP-2(0-5)

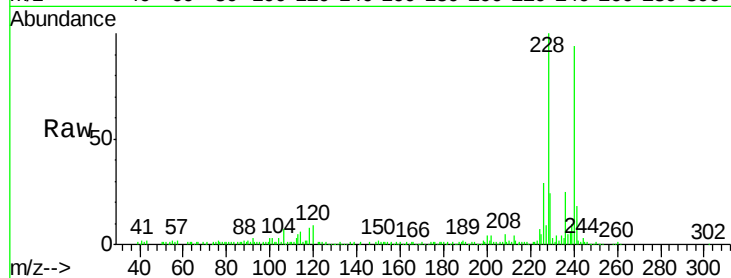
Tgt Ion:240 Resp: 107816

Ion Ratio Lower Upper

240 100

120 9.1 16.2 24.2#

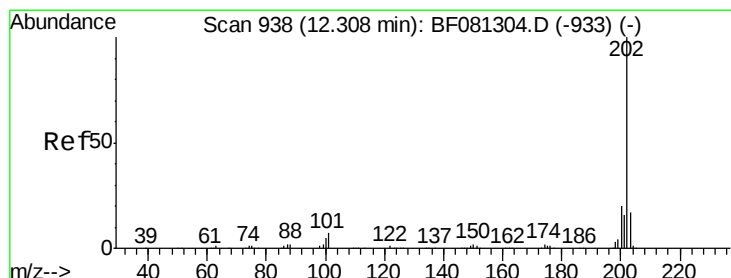
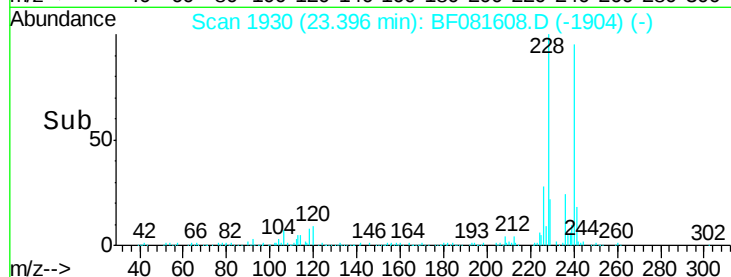
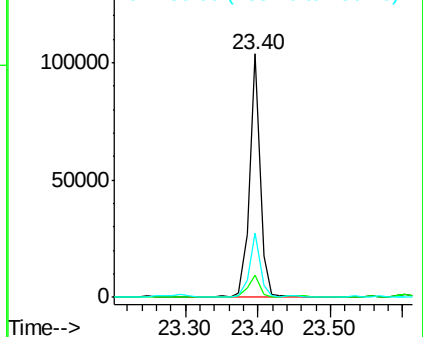
236 26.3 18.4 27.6



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: 4.31 ng

RT: 21.59 min Scan# 1772

Delta R.T. -0.19 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

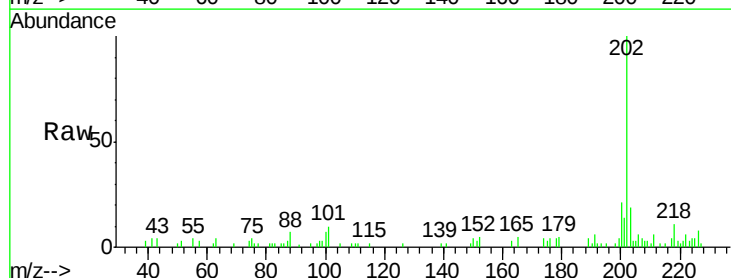
Tgt Ion:202 Resp: 34424

Ion Ratio Lower Upper

202 100

200 21.4 15.0 22.4

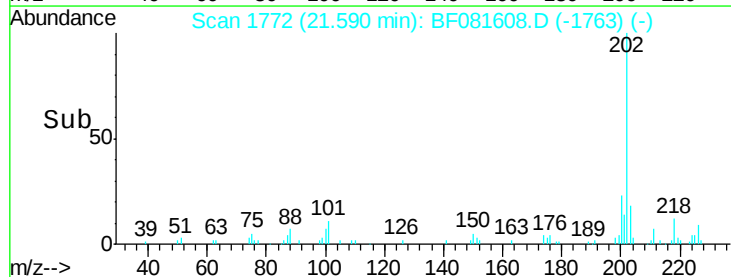
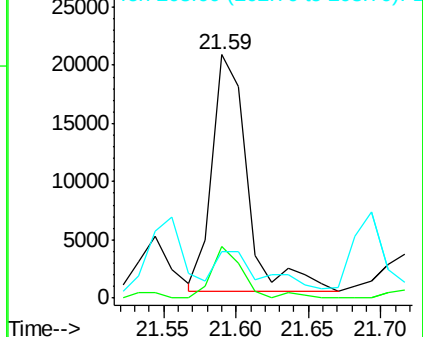
203 19.3 14.1 21.1

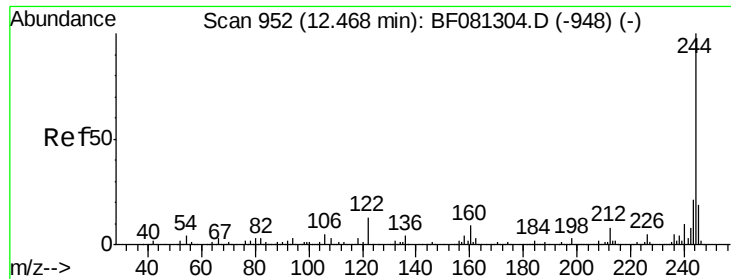


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

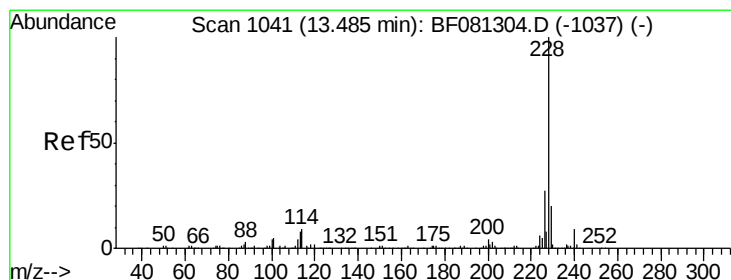
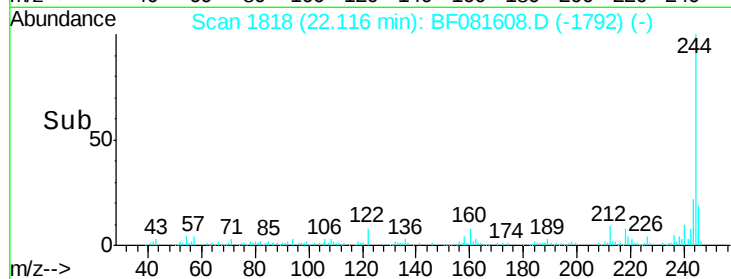
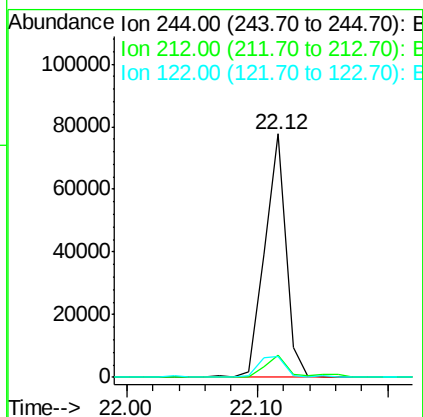
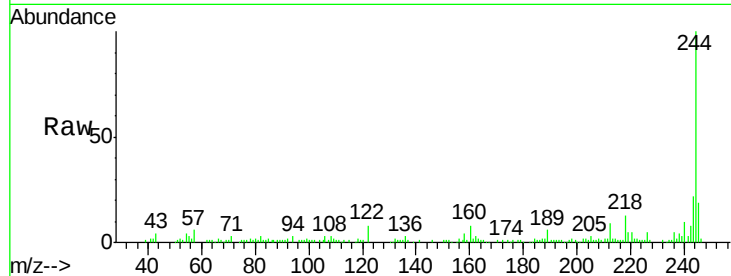




#78
 Terphenyl-d14
 Concen: 19.15 ng
 RT: 22.12 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: BF081608.D
 Acq: 14 Sep 2015 15:10

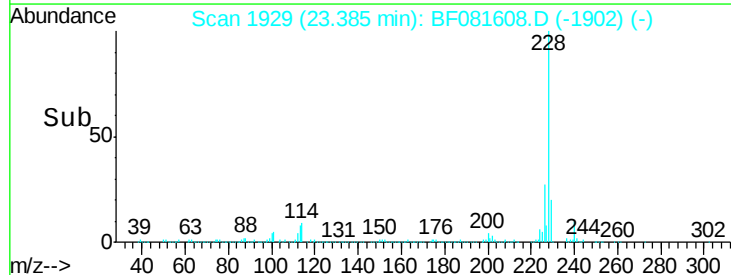
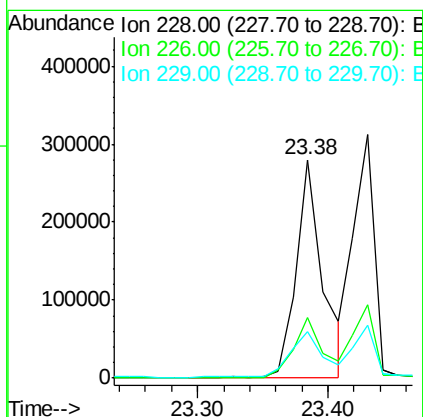
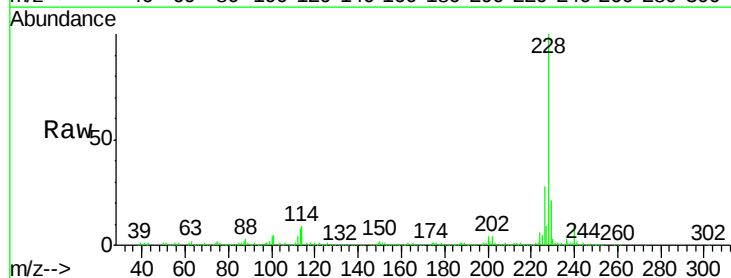
Instrument :
 BNA_F
 ClientSampleId :
 GP-2(0-5)

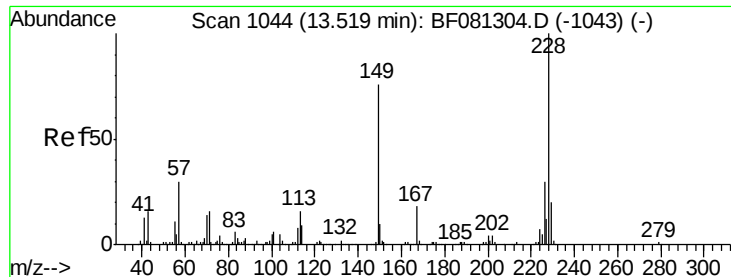
Tgt Ion:244 Resp: 88686
 Ion Ratio Lower Upper
 244 100
 212 8.9 4.3 6.5#
 122 8.5 17.4 26.2#



#80
 Benzo(a)anthracene
 Concen: 57.39 ng
 RT: 23.38 min Scan# 1929
 Delta R.T. 0.01 min
 Lab File: BF081608.D
 Acq: 14 Sep 2015 15:10

Tgt Ion:228 Resp: 394017
 Ion Ratio Lower Upper
 228 100
 226 27.8 20.0 30.0
 229 21.0 15.4 23.2





#82

Chrysene

Concen: 56.28 ng

RT: 23.43 min Scan# 1933

Delta R.T. 0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Instrument :

BNA_F

ClientSampleId :

GP-2(0-5)

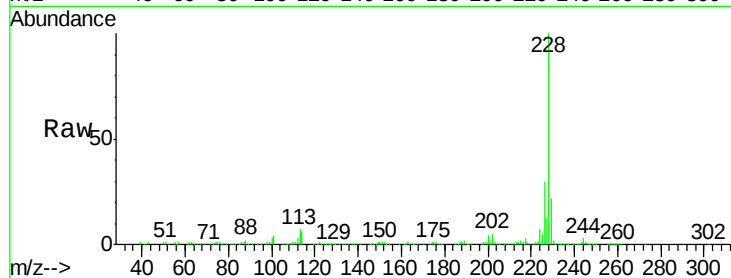
Tgt Ion:228 Resp: 346397

Ion Ratio Lower Upper

228 100

226 30.1 21.0 31.4

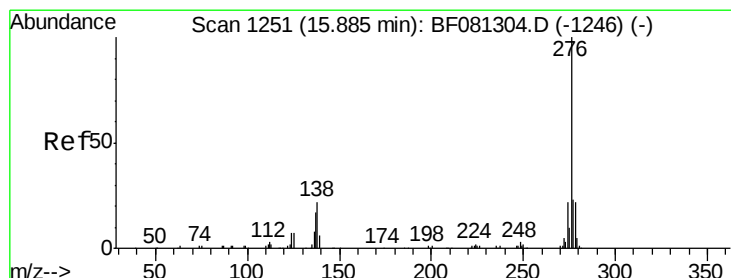
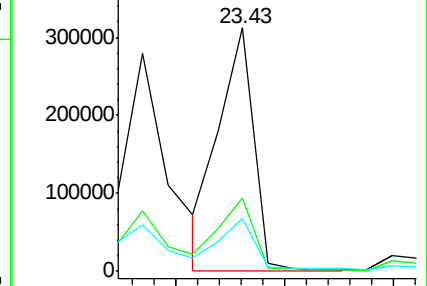
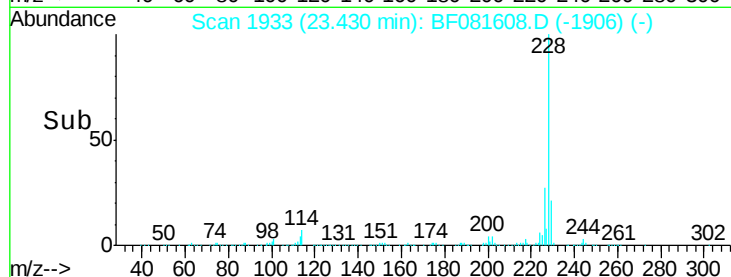
229 21.7 15.6 23.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 35.76 ng

RT: 25.89 min Scan# 2148

Delta R.T. 0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

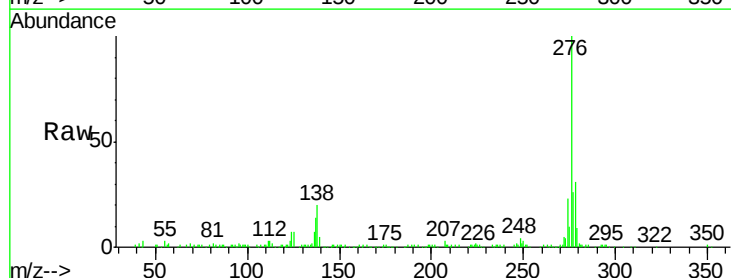
Tgt Ion:276 Resp: 161473

Ion Ratio Lower Upper

276 100

138 18.7 25.7 38.5#

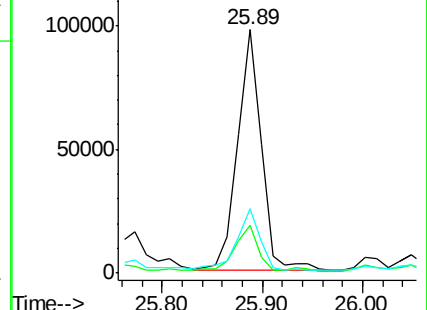
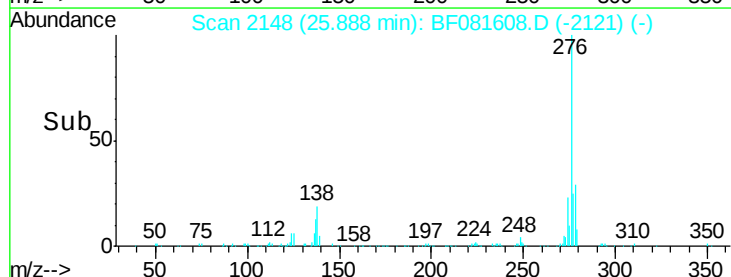
277 26.8 15.6 23.4#

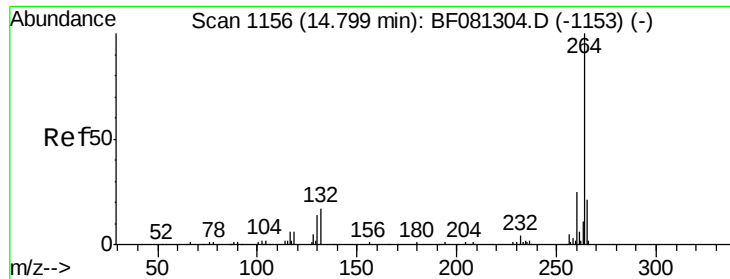


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



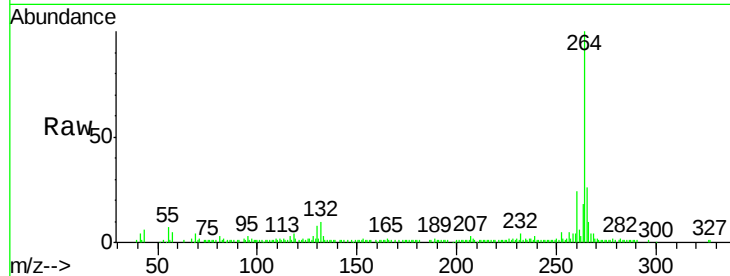


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.84 min Scan# 2056
Delta R.T. 0.01 min
Lab File: BF081608.D
Acq: 14 Sep 2015 15:10

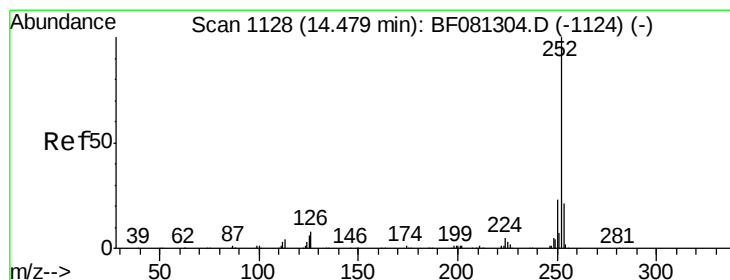
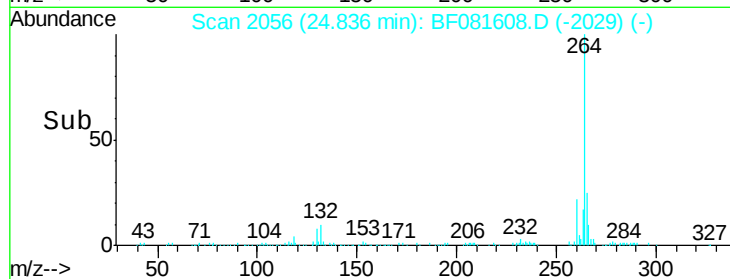
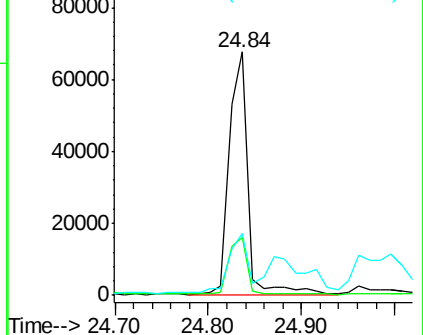
Instrument :
BNA_F
ClientSampleId :
GP-2(0-5)

Tgt Ion: 264 Resp: 96721

Ion	Ratio	Lower	Upper
264	100		
260	23.6	16.7	25.1
265	25.6	17.2	25.8



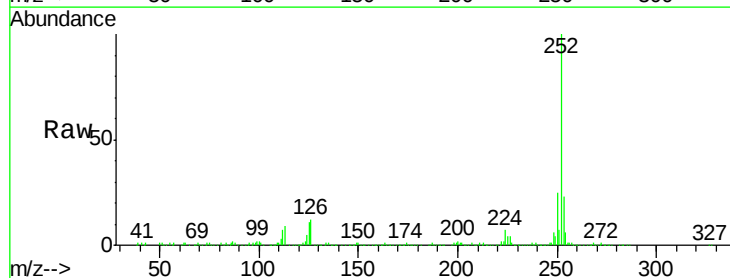
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



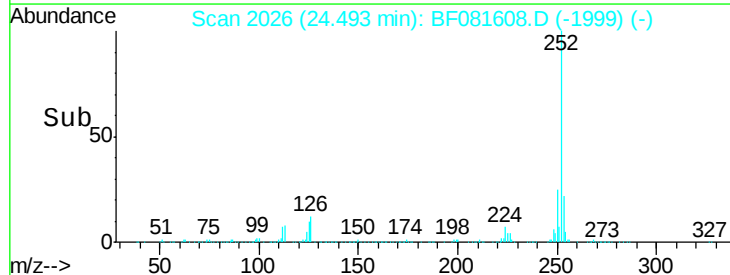
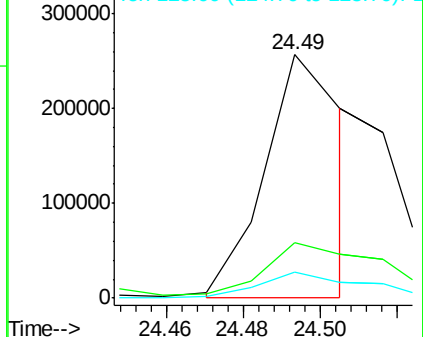
#87
Benzo(b)fluoranthene
Concen: 53.38 ng m
RT: 24.49 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF081608.D
Acq: 14 Sep 2015 15:10

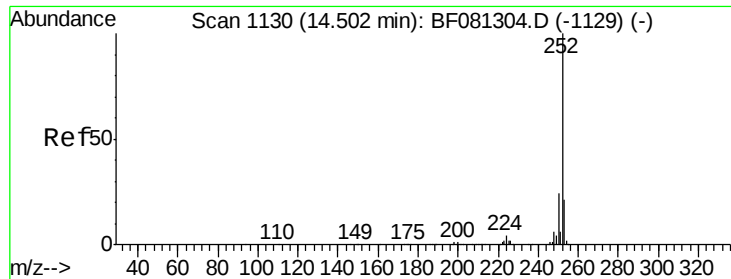
Tgt Ion: 252 Resp: 368614

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	10.5	17.1	25.7#



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





#88

Benzo(k)fluoranthene

Concen: 24.53 ng m

RT: 24.50 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Instrument :

BNA_F

ClientSampleId :

GP-2(0-5)

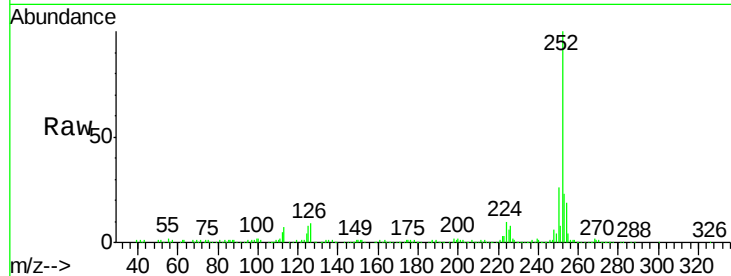
Tgt Ion:252 Resp: 140524

Ion Ratio Lower Upper

252 100

253 23.0 17.0 25.4

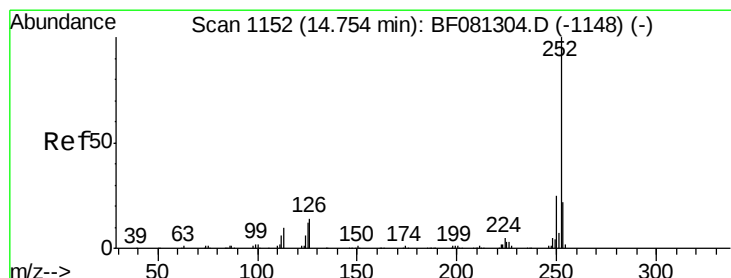
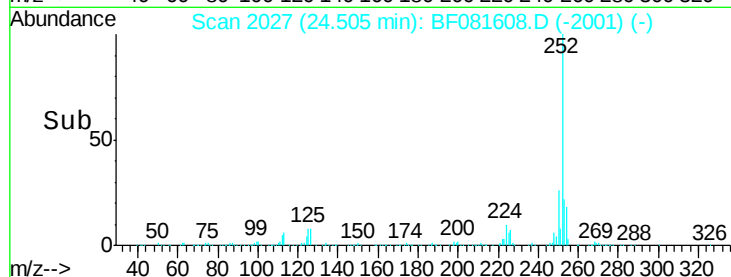
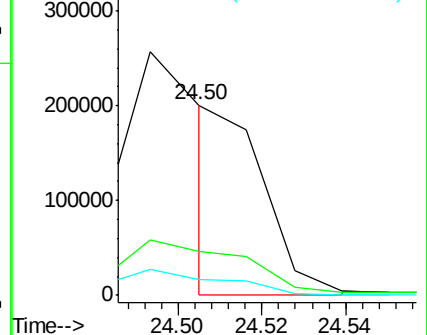
125 8.2 16.0 24.0#



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: 57.46 ng

RT: 24.79 min Scan# 2052

Delta R.T. 0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

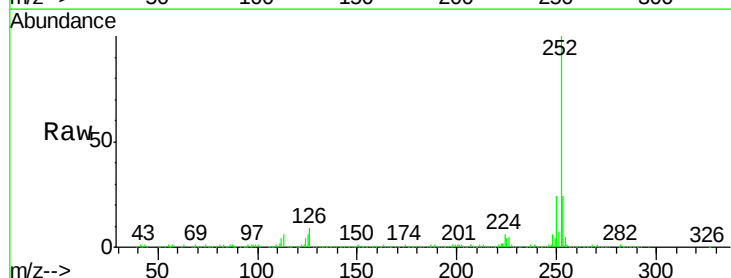
Tgt Ion:252 Resp: 336231

Ion Ratio Lower Upper

252 100

253 23.6 17.2 25.8

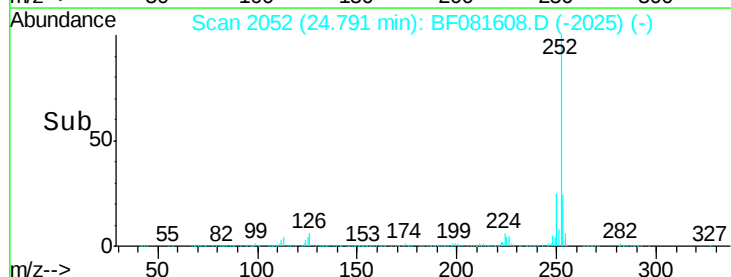
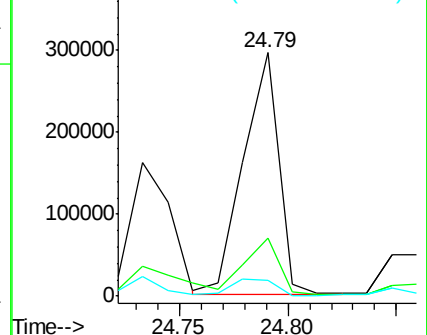
125 6.4 18.0 27.0#

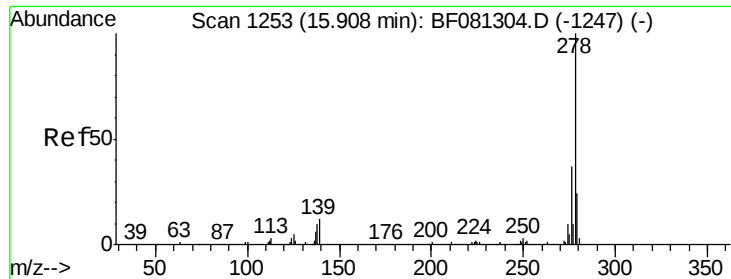


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 10.68 ng m

RT: 25.89 min Scan# 2148

Delta R.T. 0.00 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

Instrument :

BNA_F

ClientSampleId :

GP-2(0-5)

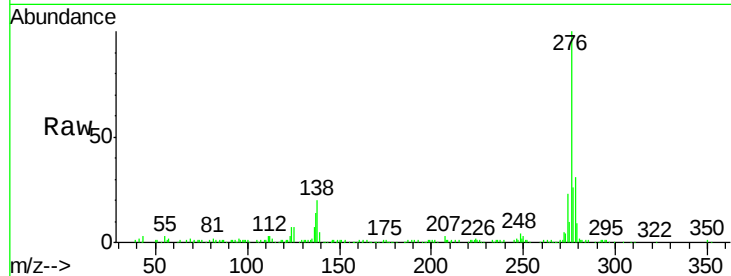
Tgt Ion:278 Resp: 48305

Ion Ratio Lower Upper

278 100

139 16.4 26.3 39.5#

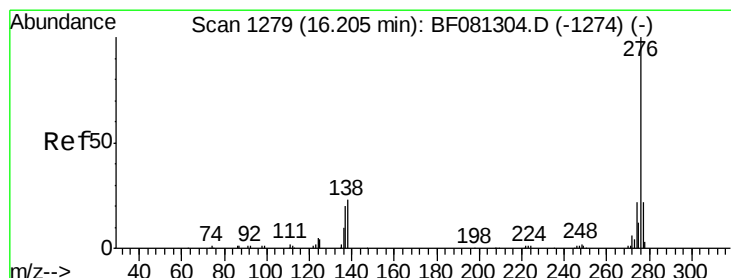
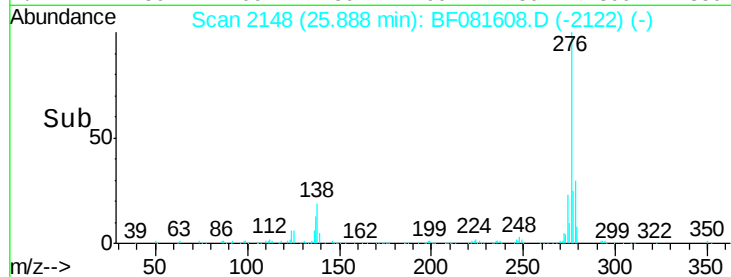
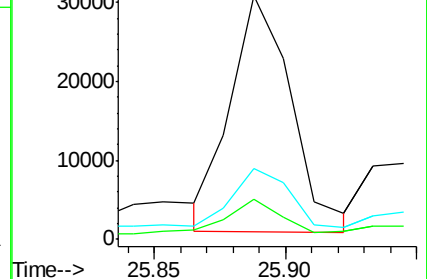
279 29.0 18.2 27.4#



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: 34.40 ng

RT: 26.20 min Scan# 2175

Delta R.T. 0.01 min

Lab File: BF081608.D

Acq: 14 Sep 2015 15:10

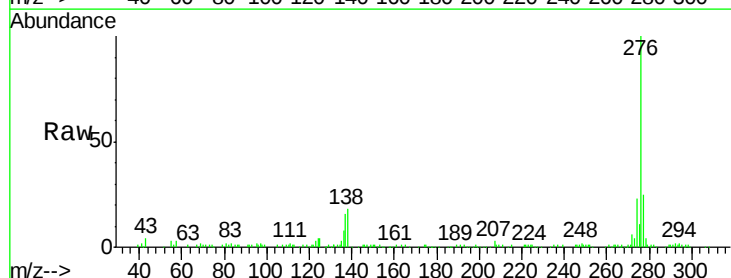
Tgt Ion:276 Resp: 148468

Ion Ratio Lower Upper

276 100

277 25.2 17.8 26.6

138 18.1 34.6 51.8#



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

