

Data Path : Z:\HPCHEM1\BNA F\Data\BF110915\
 Data File : BF082864.D
 Acq On : 10 Nov 2015 10:11
 Operator : UM/IZ
 Sample : G4327-01
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1

Quant Time: Nov 10 10:35:07 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 07 02:32:49 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	234264	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	778474	20.00	ng	-0.02
38) Acenaphthene-d10	9.87	164	373998	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	576119	20.00	ng	-0.02
75) Chrysene-d12	14.00	240	451357	20.00	ng	-0.02
86) Perylene-d12	15.43	264	411747	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	1747870	116.09	ng	0.00
7) Phenol-d6	6.48	99	2375879	118.70	ng	0.00
23) Nitrobenzene-d5	7.39	82	1513506	84.60	ng	-0.02
41) 2,4,6-Tribromophenol	10.66	330	400566	93.41	ng	-0.02
44) 2-Fluorobiphenyl	9.20	172	1794203	68.76	ng	-0.02
78) Terphenyl-d14	12.95	244	1438356	75.58	ng	-0.02

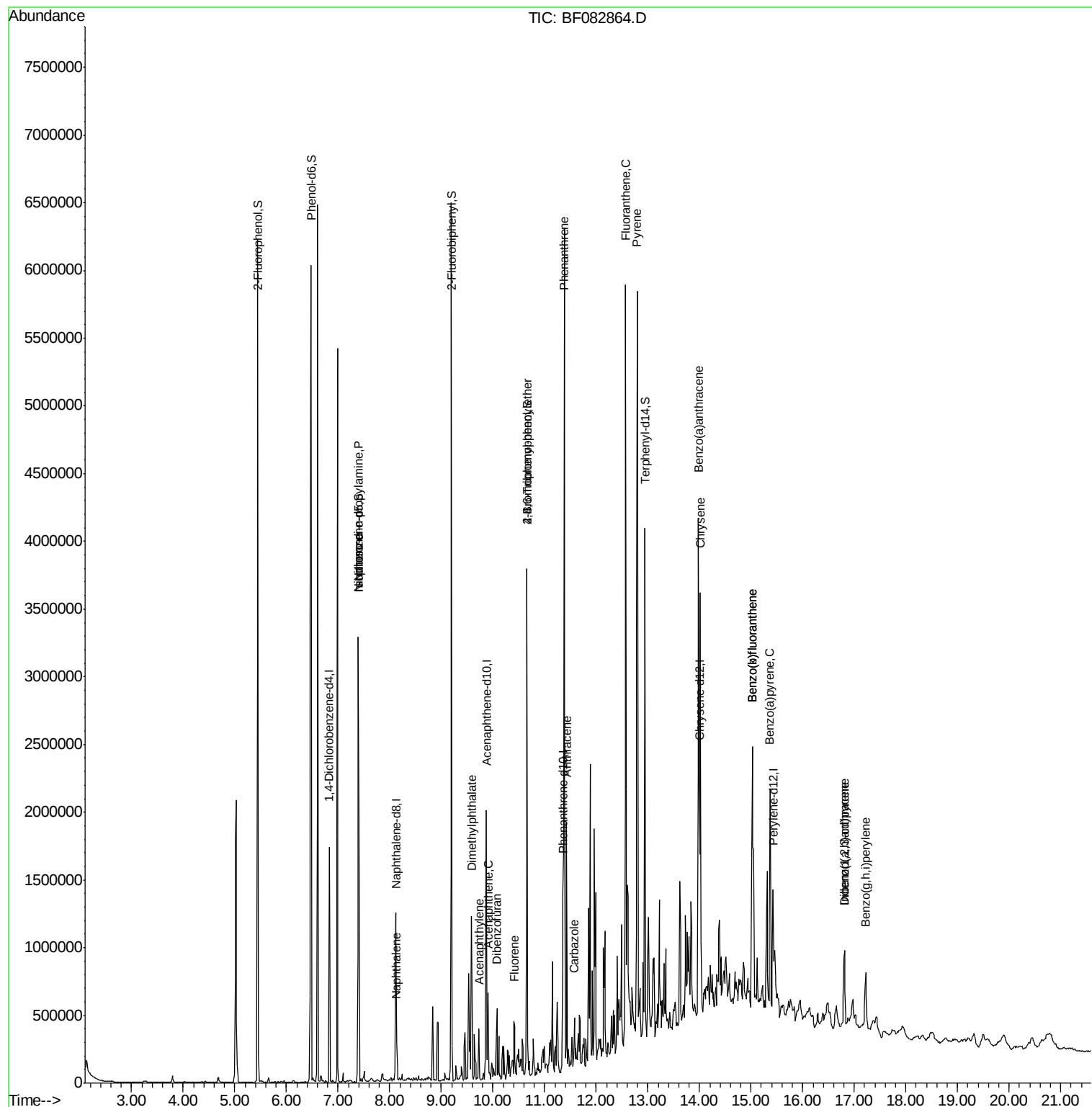
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.39	70	203304	13.82	ng	# 69
25) Isophorone	7.39	82	1272464	38.44	ng	# 70
31) Naphthalene	8.13	128	116094	2.70	ng	98
48) Acenaphthylene	9.73	152	172644	4.40	ng	99
49) Dimethylphthalate	9.58	163	460947	15.04	ng	100
51) Acenaphthene	9.90	154	151699	6.10	ng	98
54) Dibenzofuran	10.08	168	150138	4.48	ng	# 82
57) Fluorene	10.42	166	168947	6.22	ng	100
66) 4-Bromophenyl-phenylether	10.66	248	29732	4.29	ng	# 1
70) Phenanthrene	11.38	178	2797985	83.63	ng	99
71) Anthracene	11.42	178	670308	19.02	ng	98
72) Carbazole	11.57	167	173606	5.63	ng	97
74) Fluoranthene	12.57	202	2580475	71.88	ng	95
77) Pyrene	12.80	202	2379317	76.76	ng	98
80) Benzo(a)anthracene	13.99	228	1393939	49.39	ng	98
82) Chrysene	14.02	228	898921	34.77	ng	98
85) Indeno(1,2,3-cd)pyrene	16.81	276	379964	17.07	ng	95
87) Benzo(b)fluoranthene	15.03	252	1481619	56.06	ng	# 96
88) Benzo(k)fluoranthene	15.03	252	1481619	63.19	ng	# 95
89) Benzo(a)pyrene	15.37	252	738916	32.27	ng	# 96
90) Dibenzo(a,h)anthracene	16.81	278	104928	5.41	ng	# 91
91) Benzo(g,h,i)perylene	17.22	276	343828	18.51	ng	# 95

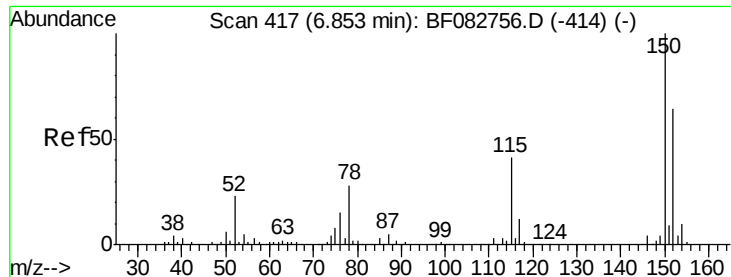
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 35 Sample Multiplier: 1

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ClientSampled :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 07 02:32:49 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

ClientSampleId :

1

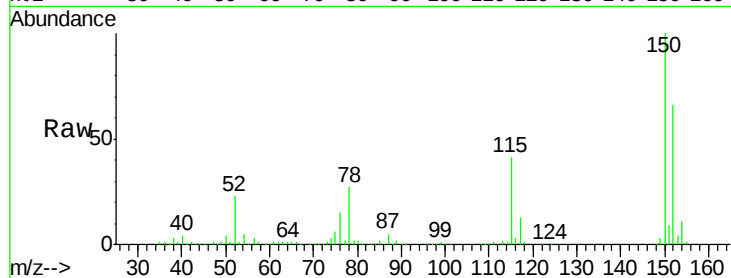
Tot Ion:152 Resp: 234264

Ion Ratio Lower Upper

152 100

150 151.1 127.0 190.4

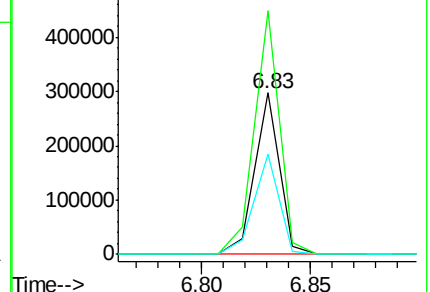
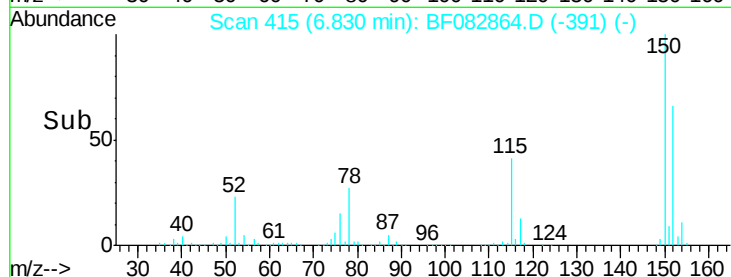
115 62.2 47.0 70.6



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: 116.09 ng

RT: 5.45 min Scan# 294

Delta R.T. 0.00 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

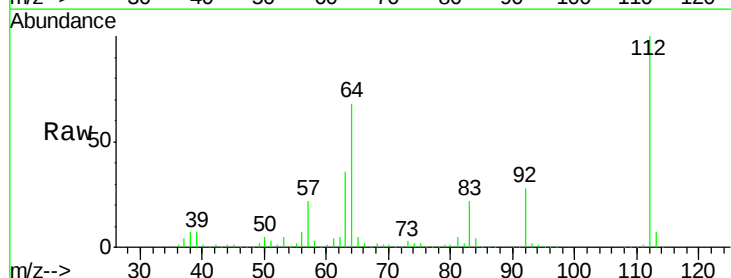
Tgt Ion:112 Resp: 1747870

Ion Ratio Lower Upper

112 100

64 67.7 48.9 73.3

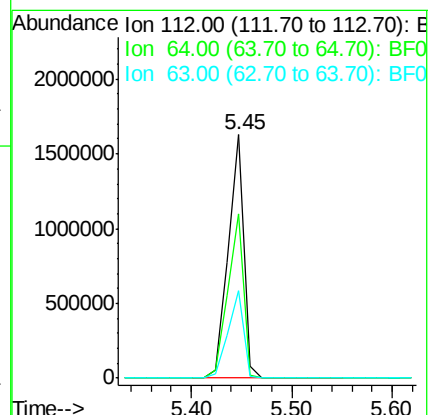
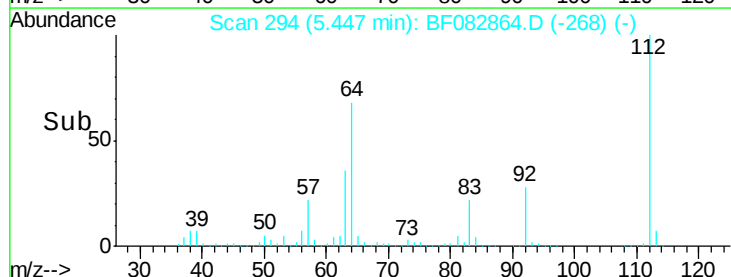
63 35.8 28.1 42.1

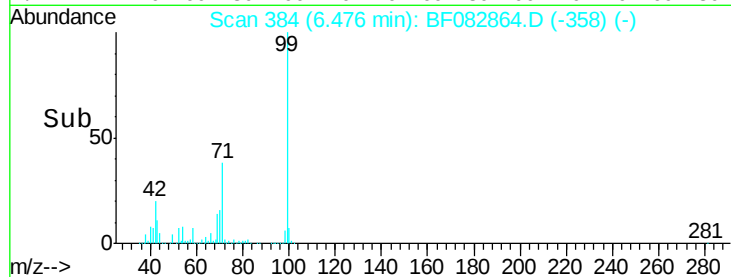
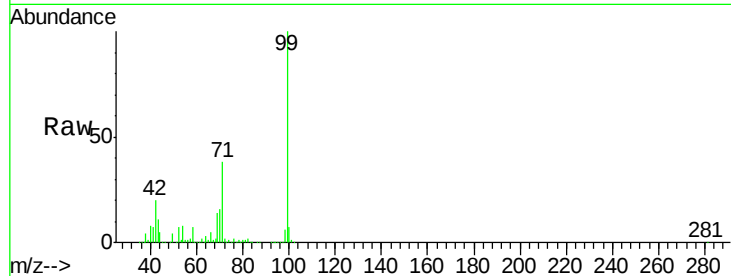
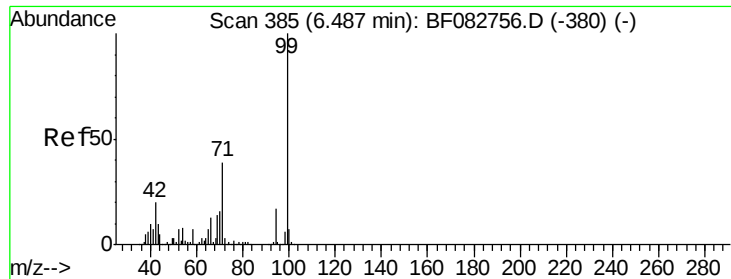


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 118.70 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.00 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

ClientSampleId :

1

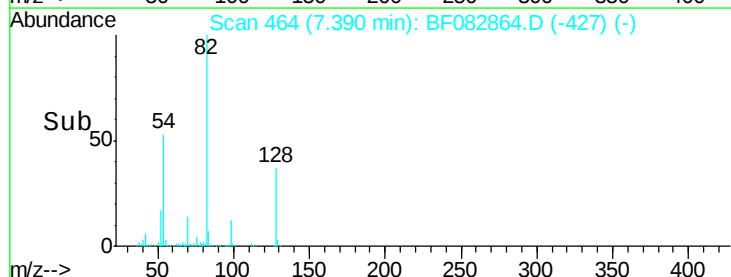
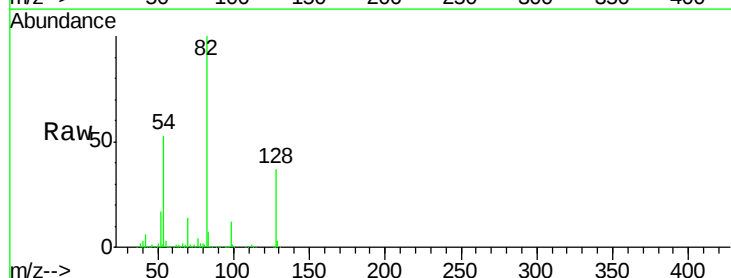
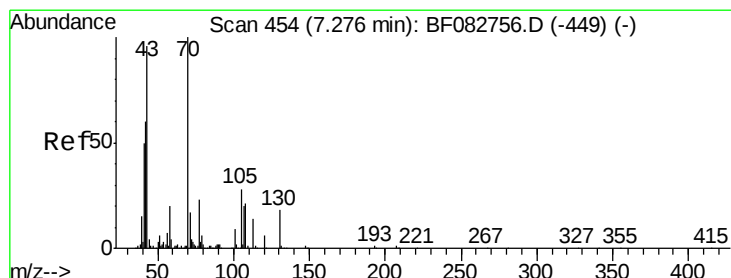
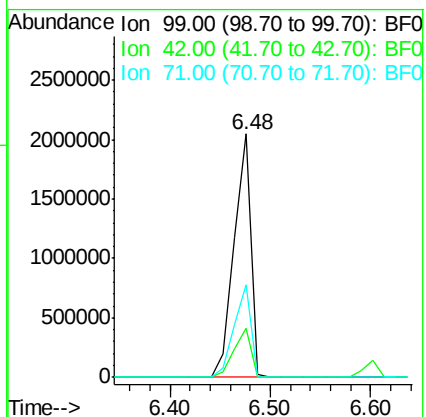
Tot Ion: 99 Resp: 2375879

Ion Ratio Lower Upper

99 100

42 20.1 19.2 28.8

71 38.1 35.0 52.4



#19

n-Nitroso-di-n-propylamine

Concen: 13.82 ng

RT: 7.39 min Scan# 464

Delta R.T. 0.13 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Tgt Ion: 70 Resp: 203304

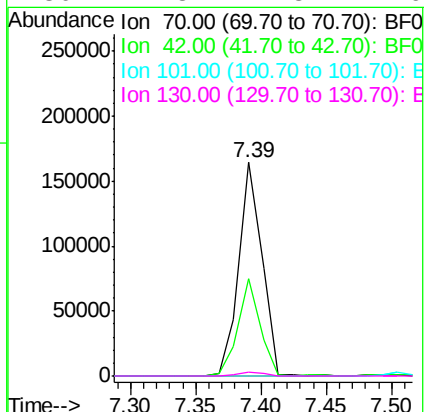
Ion Ratio Lower Upper

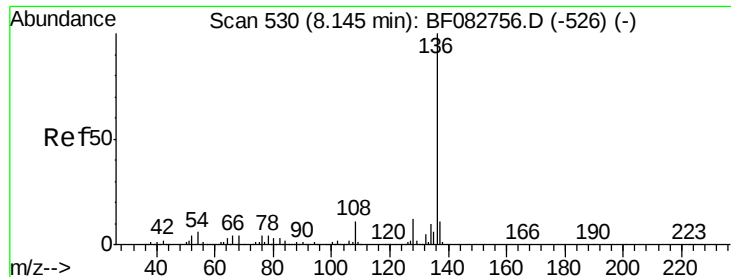
70 100

42 45.7 57.7 86.5#

101 0.0 7.0 10.6#

130 1.8 11.8 17.6#

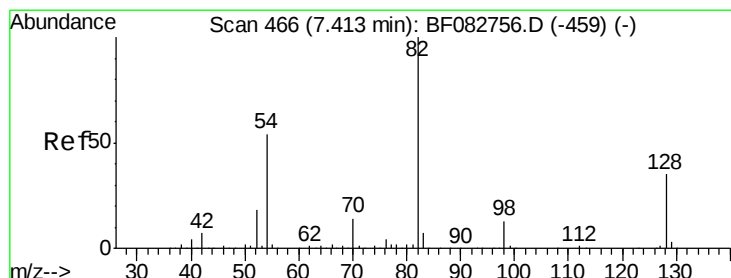
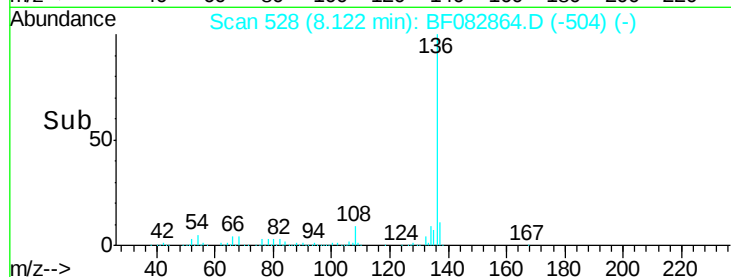
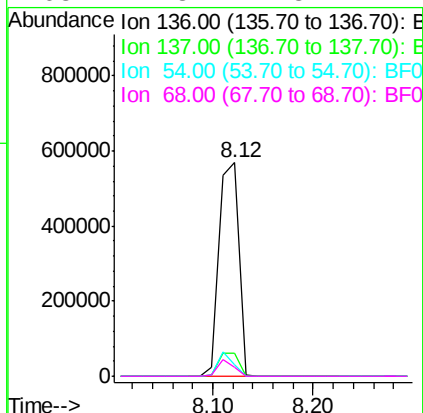
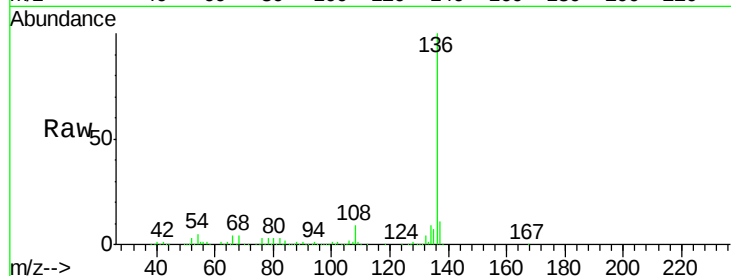




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.12 min Scan# 528
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

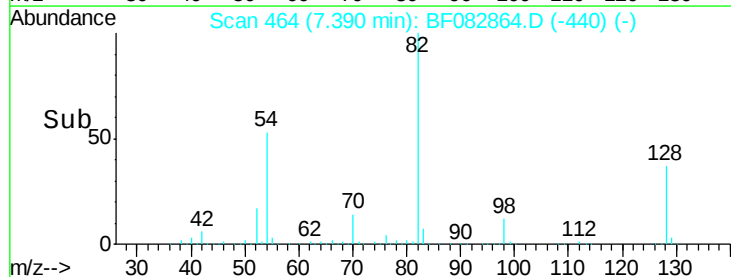
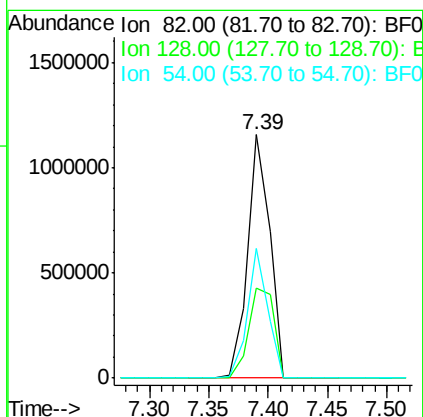
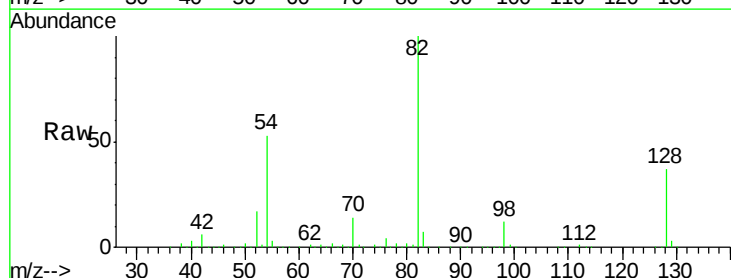
Instrument :
BNA_F
ClientSampleId :
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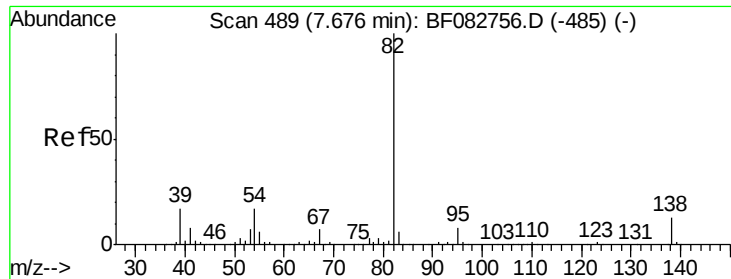
Tot Ion:136	Resp:	778474
Ion Ratio	Lower	Upper
136	100	
137	10.5	9.1 13.7
54	5.5	9.1 13.7#
68	4.3	4.8 7.2#



#23
Nitrobenzene-d5
Concen: 84.60 ng
RT: 7.39 min Scan# 464
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion: 82	Resp:	1513506
Ion Ratio	Lower	Upper
82	100	
128	37.1	26.8 40.2
54	53.1	45.7 68.5

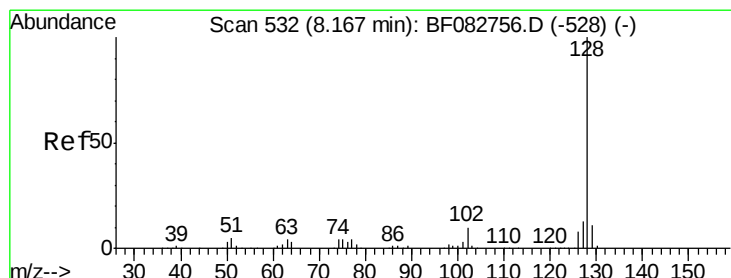
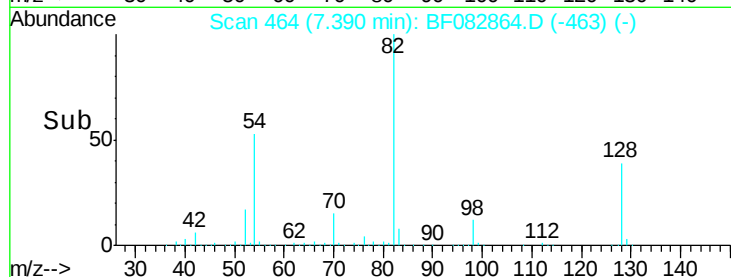
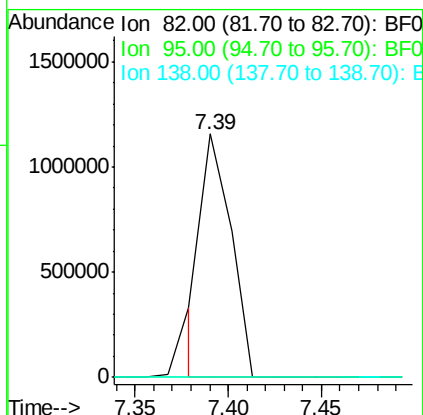
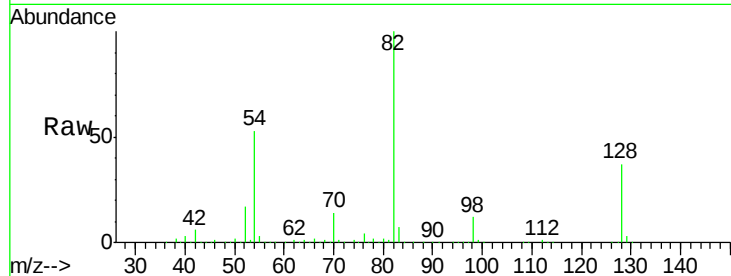




#25
Isophorone
Concen: 38.44 ng
RT: 7.39 min Scan# 464
Delta R.T. -0.29 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

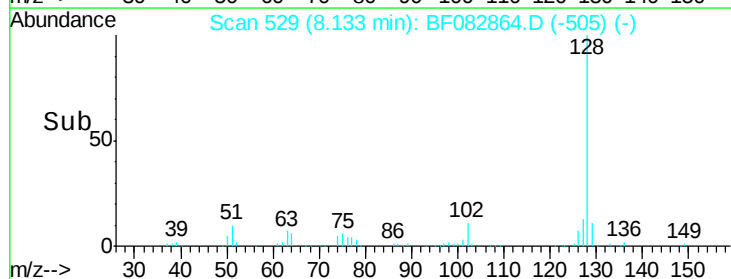
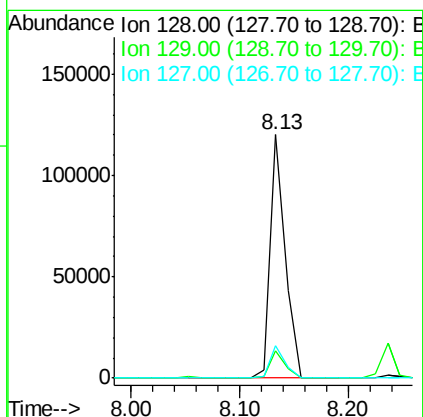
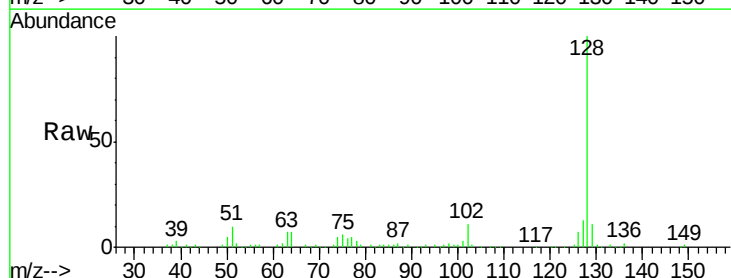
Instrument :
BNA_F
ClientSampleId :
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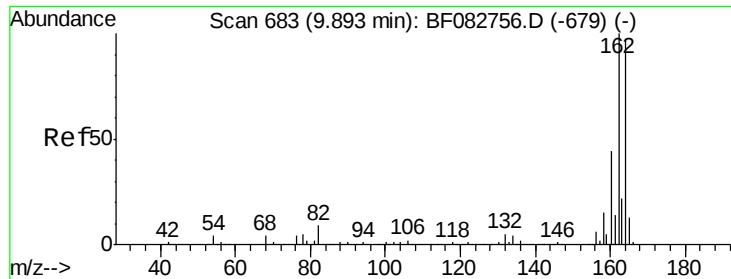
Tot Ion: 82 Resp: 1272464
Ion Ratio Lower Upper
82 100
95 0.0 6.6 9.8#
138 0.0 11.4 17.0#



#31
Naphthalene
Concen: 2.70 ng
RT: 8.13 min Scan# 529
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion: 128 Resp: 116094
Ion Ratio Lower Upper
128 100
129 11.0 9.5 14.3
127 13.3 11.4 17.0

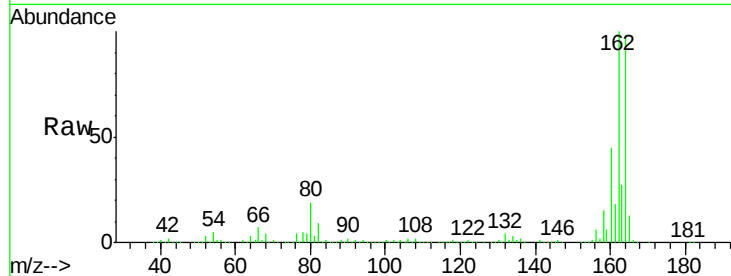




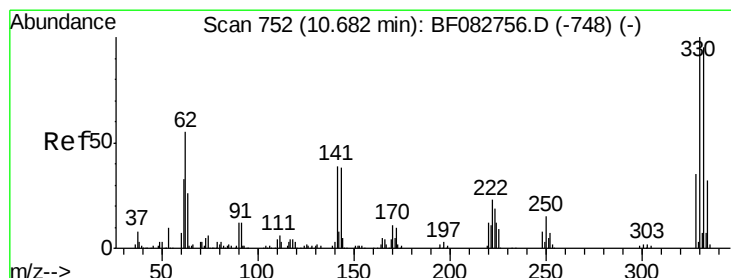
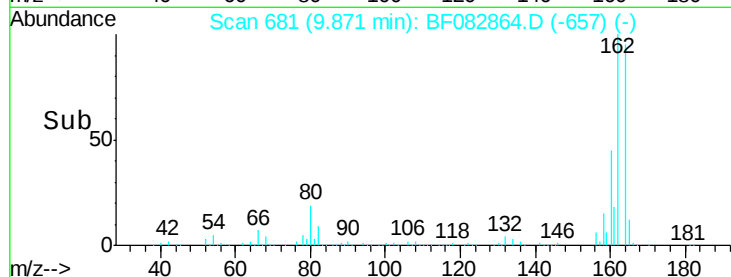
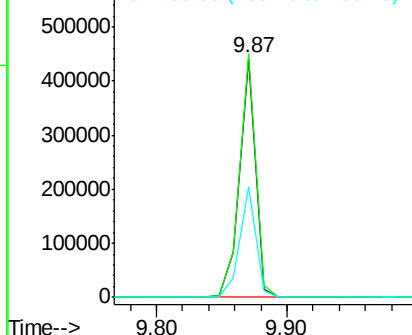
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.87 min Scan# 681
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Instrument :
BNA_F
ClientSampleId :
1

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.9	84.9	127.3
160	46.2	37.5	56.3

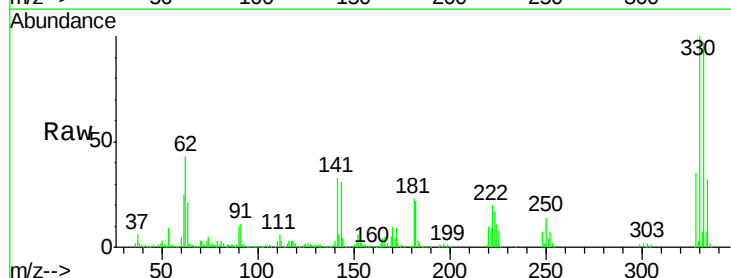


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

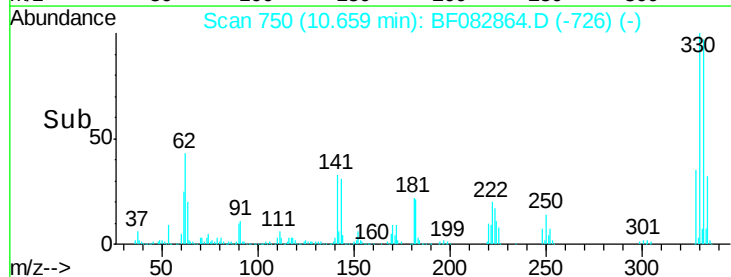
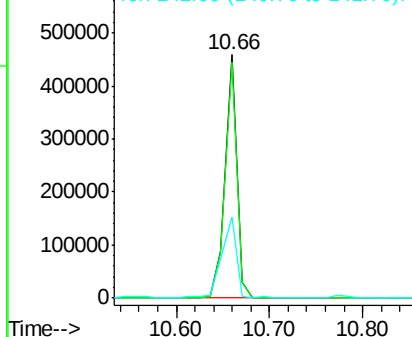


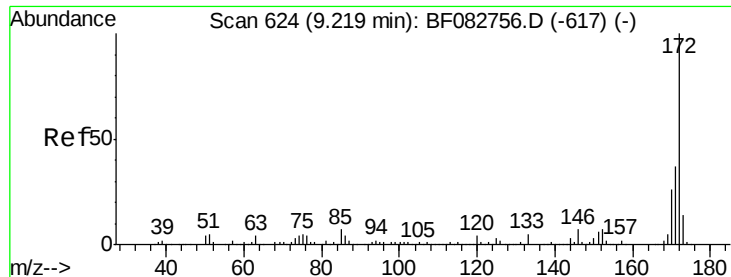
#41
2,4,6-Tribromophenol
Concen: 93.41 ng
RT: 10.66 min Scan# 750
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.6	76.6	114.8
141	40.7	41.2	61.8#



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



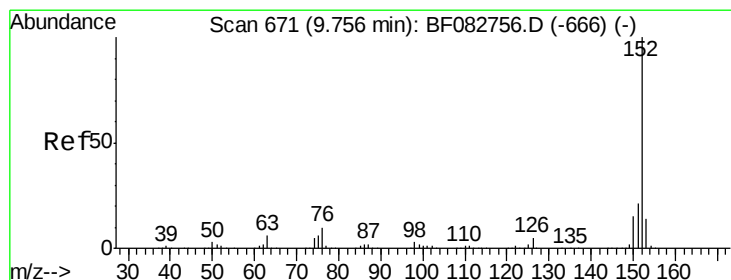
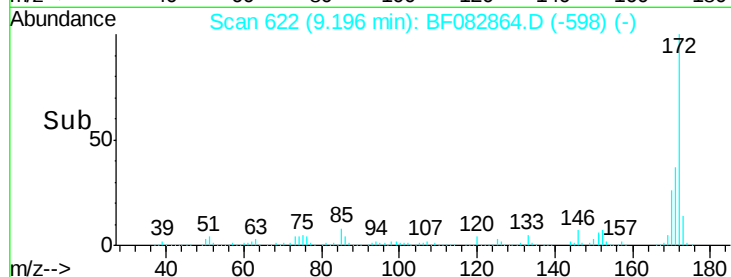
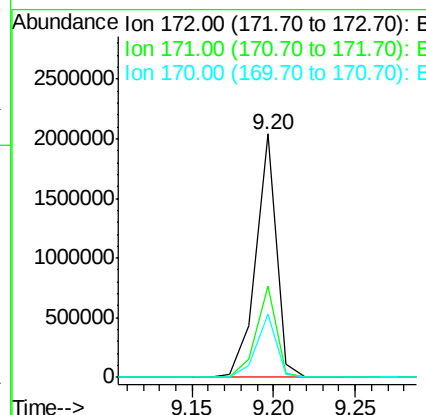
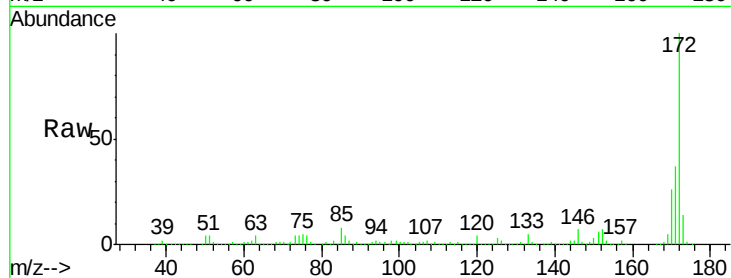


#44
 2-Fluorobiphenyl
 Concen: 68.76 ng
 RT: 9.20 min Scan# 622
 Delta R.T. -0.02 min
 Lab File: BF082864.D
 Acq: 10 Nov 2015 10:11

Instrument :
 BNA_F
 ClientSampled :
 1

Tot Ion:172 Resp: 1794203

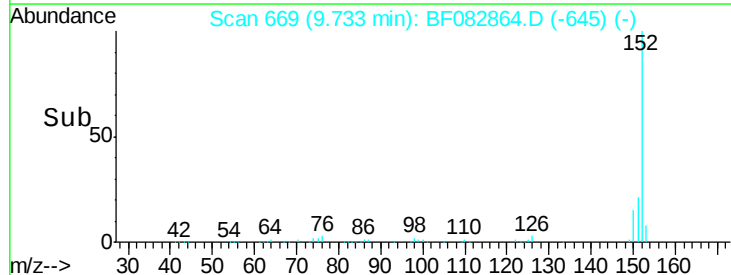
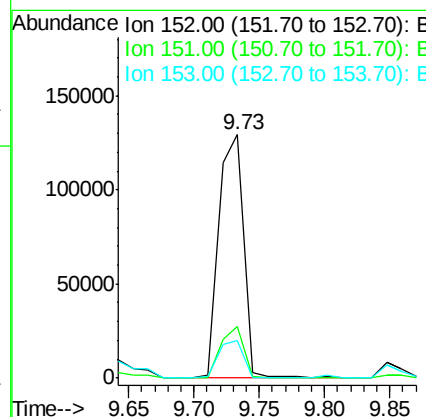
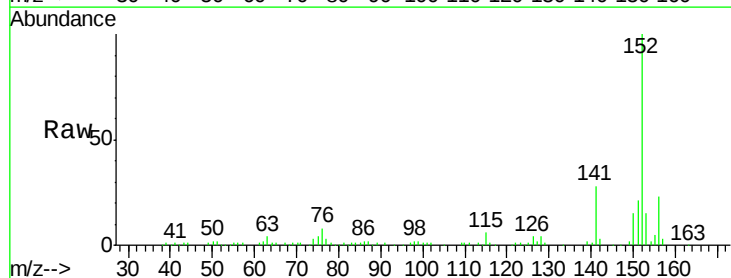
Ion	Ratio	Lower	Upper
172	100		
171	37.3	30.8	46.2
170	25.8	21.2	31.8

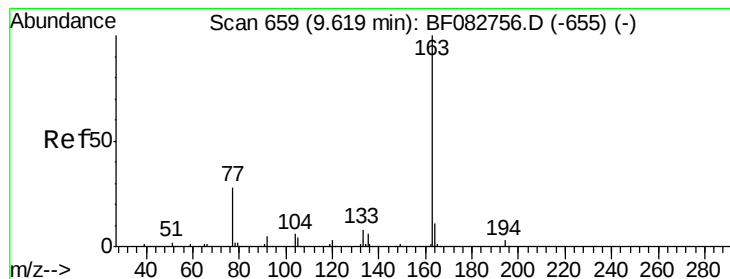


#48
 Acenaphthylene
 Concen: 4.40 ng
 RT: 9.73 min Scan# 669
 Delta R.T. -0.02 min
 Lab File: BF082864.D
 Acq: 10 Nov 2015 10:11

Tgt Ion:152 Resp: 172644

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.3	25.9
153	15.2	11.3	16.9





#49

Dimethylphthalate

Concen: 15.04 ng

RT: 9.58 min Scan# 656

Delta R.T. -0.03 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

ClientSampleId :

1

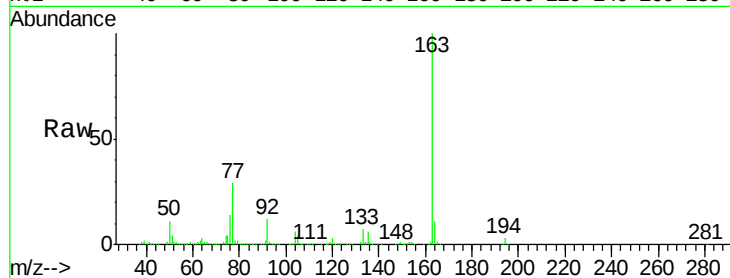
Tot Ion:163 Resp: 460947

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

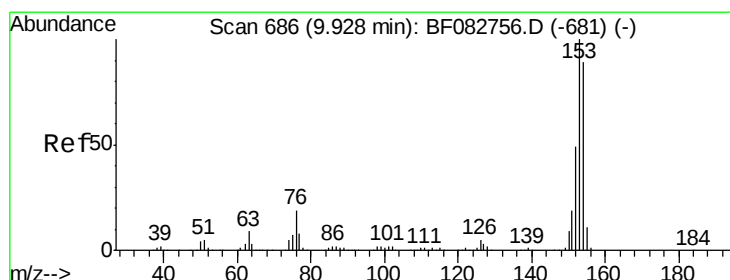
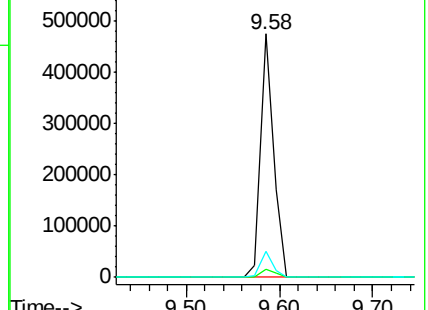
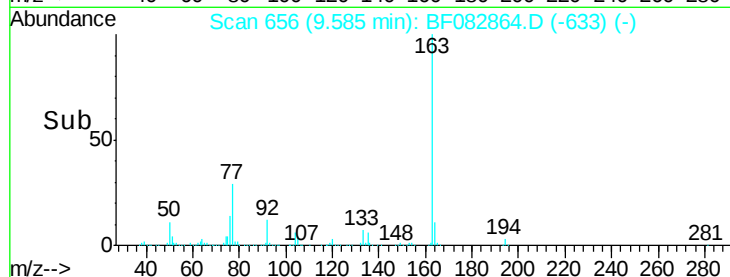
164 10.9 8.7 13.1



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



#51

Acenaphthene

Concen: 6.10 ng

RT: 9.90 min Scan# 684

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

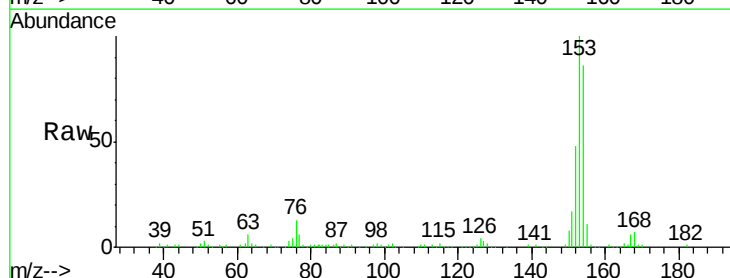
Tgt Ion:154 Resp: 151699

Ion Ratio Lower Upper

154 100

153 116.2 90.1 135.1

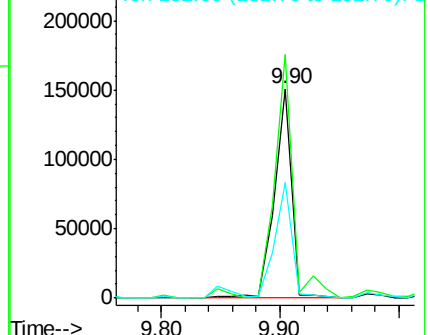
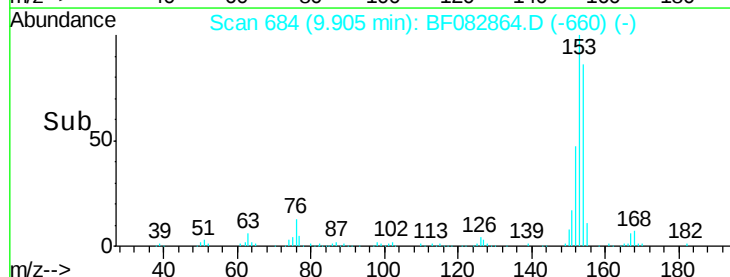
152 55.2 44.3 66.5

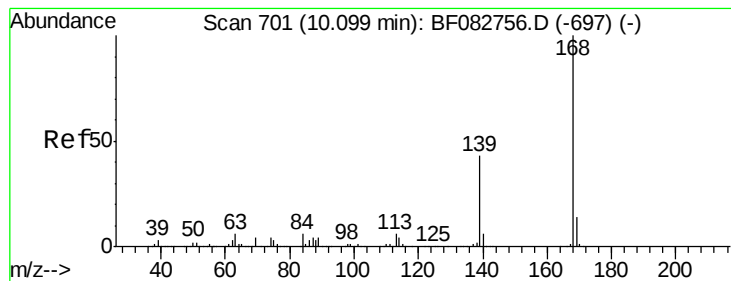


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 4.48 ng

RT: 10.08 min Scan# 699

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

ClientSampleId :

1

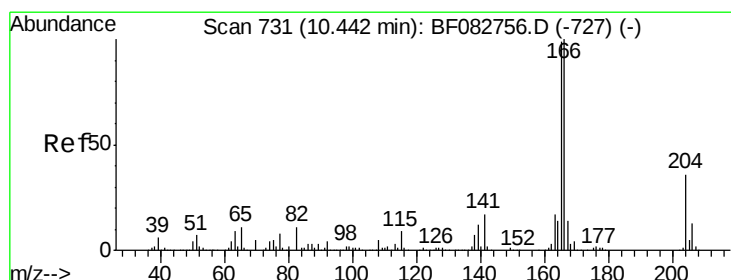
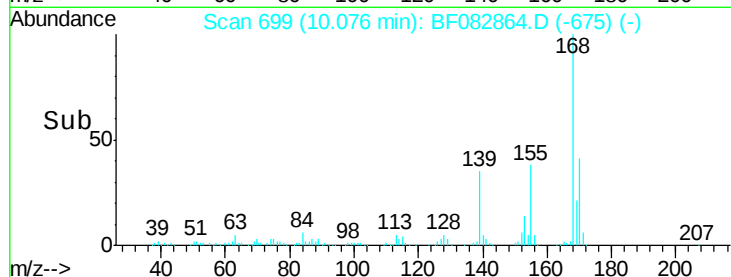
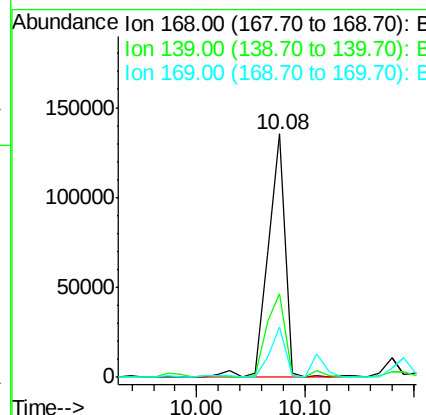
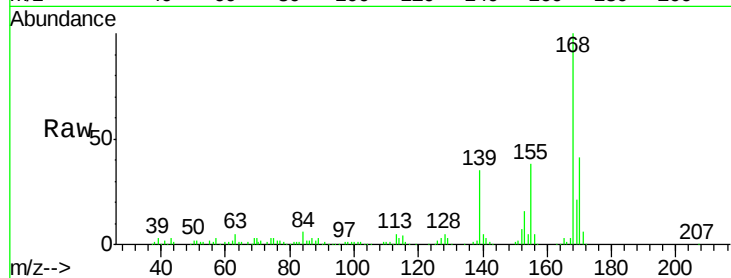
Tot Ion:168 Resp: 150138

Ion Ratio Lower Upper

168 100

139 34.6 37.8 56.6#

169 20.8 11.3 16.9#



#57

Fluorene

Concen: 6.22 ng

RT: 10.42 min Scan# 729

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

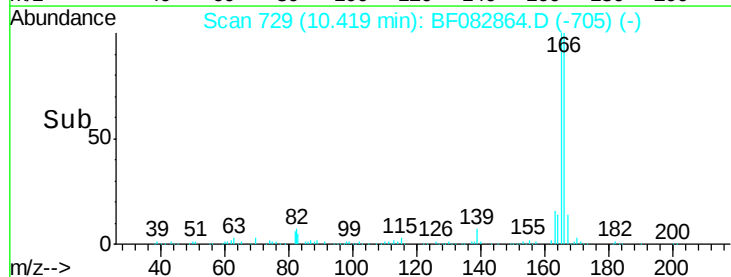
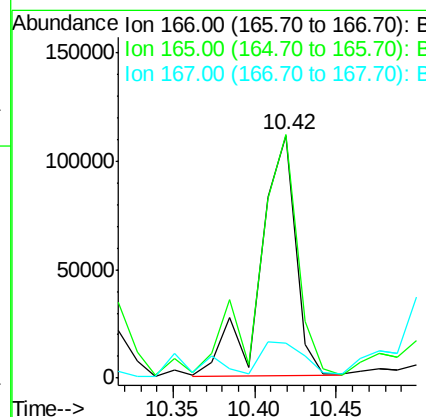
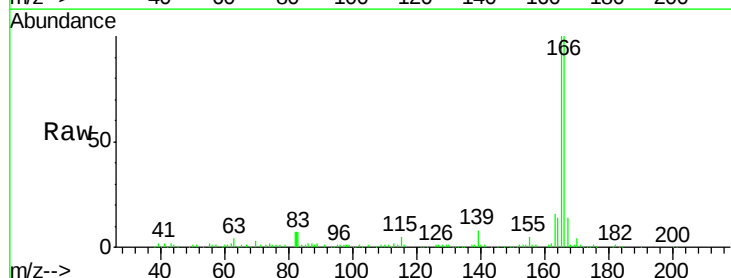
Tgt Ion:166 Resp: 168947

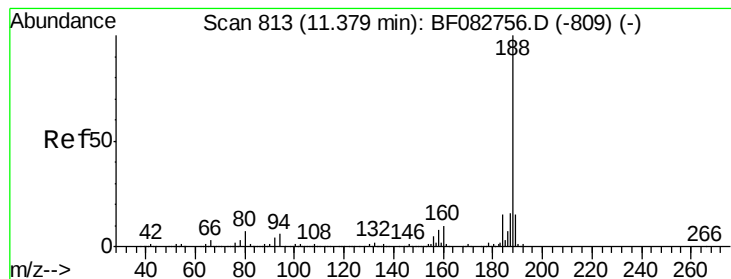
Ion Ratio Lower Upper

166 100

165 100.4 80.2 120.4

167 14.5 11.2 16.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

ClientSampleId :

1

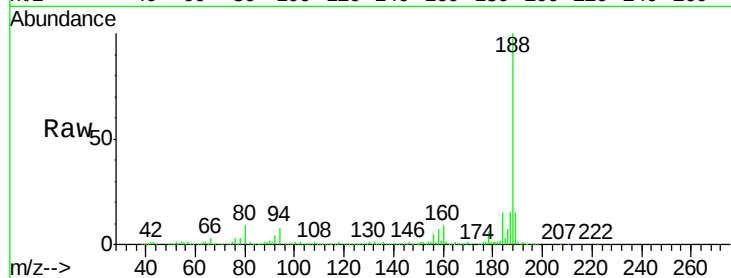
Tot Ion:188 Resp: 576119

Ion Ratio Lower Upper

188 100

94 7.7 6.1 9.1

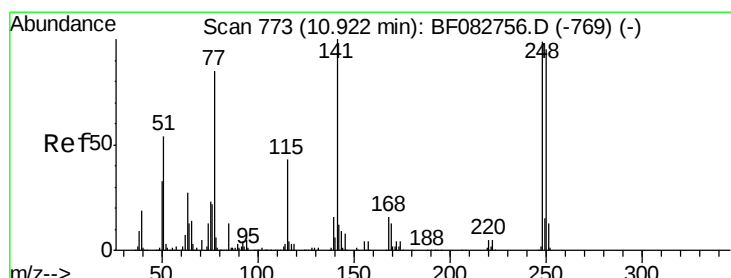
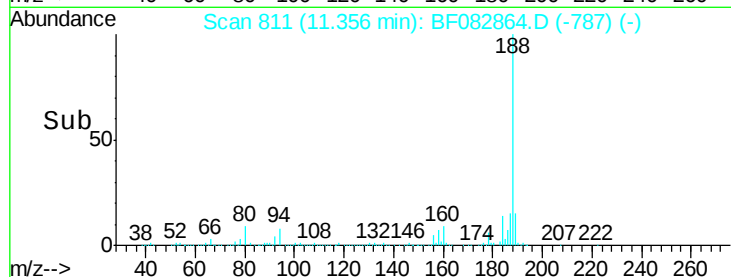
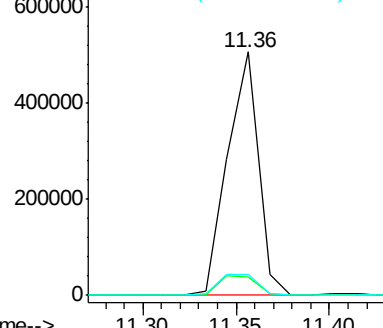
80 8.8 7.0 10.6



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: 4.29 ng

RT: 10.66 min Scan# 750

Delta R.T. -0.26 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

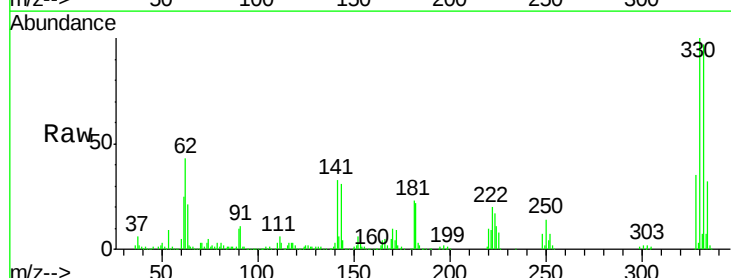
Tgt Ion:248 Resp: 29732

Ion Ratio Lower Upper

248 100

250 194.7 79.4 119.2#

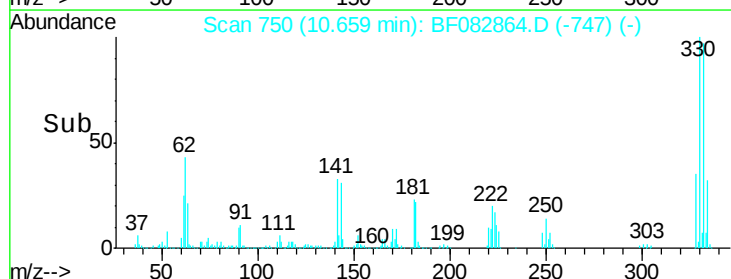
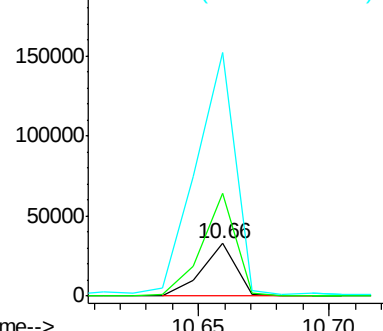
141 462.0 36.3 54.5#

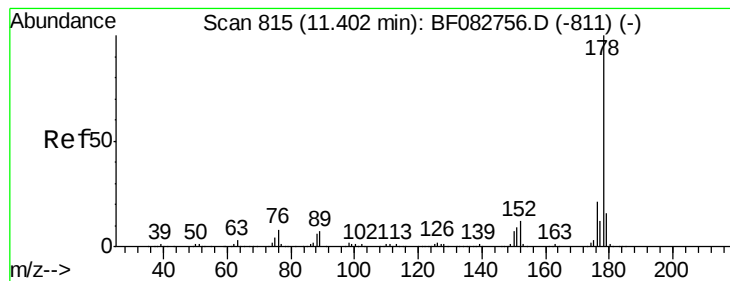


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 83.63 ng

RT: 11.38 min Scan# 813

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

ClientSampleId :

1

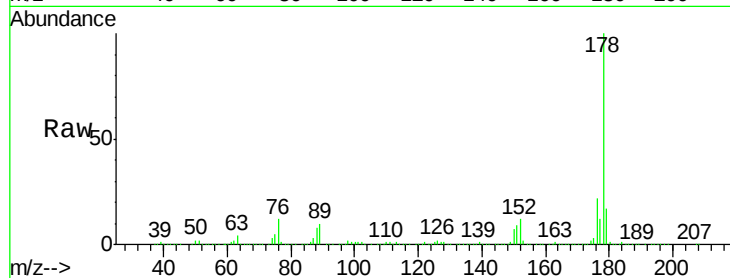
Tot Ion:178 Resp: 2797985

Ion Ratio Lower Upper

178 100

176 21.6 17.0 25.4

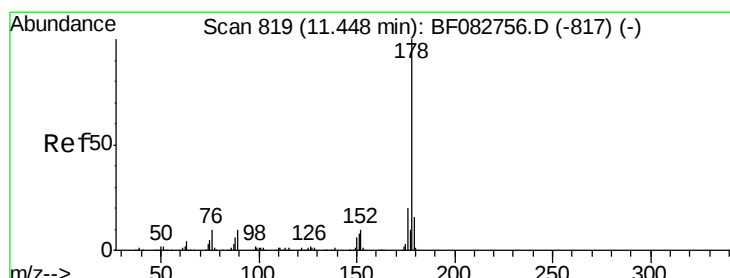
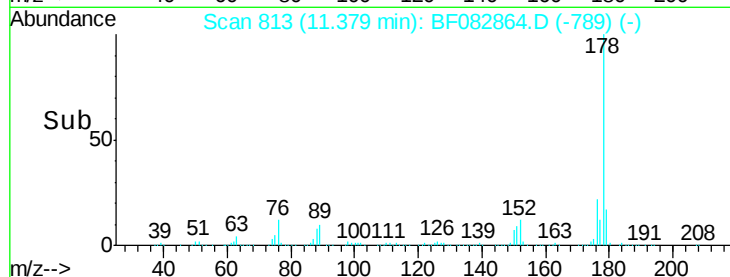
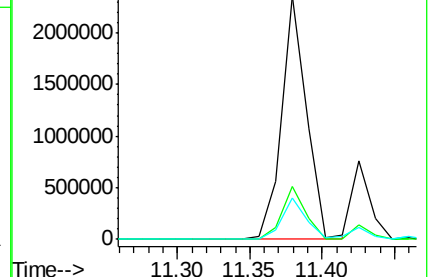
179 17.2 13.4 20.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 19.02 ng

RT: 11.42 min Scan# 817

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

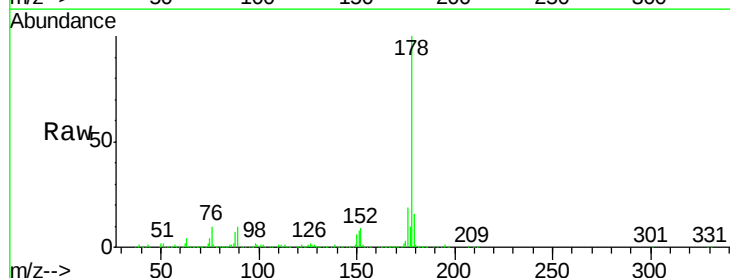
Tgt Ion:178 Resp: 670308

Ion Ratio Lower Upper

178 100

176 19.2 16.5 24.7

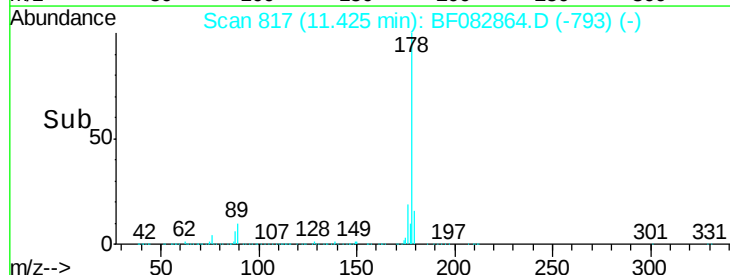
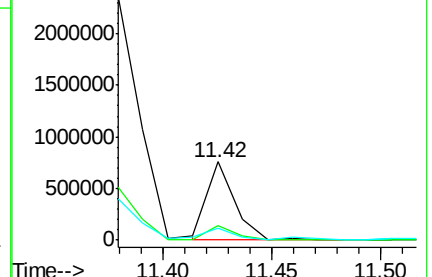
179 16.0 13.2 19.8

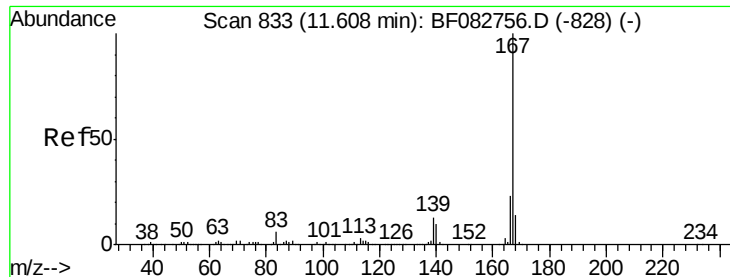


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

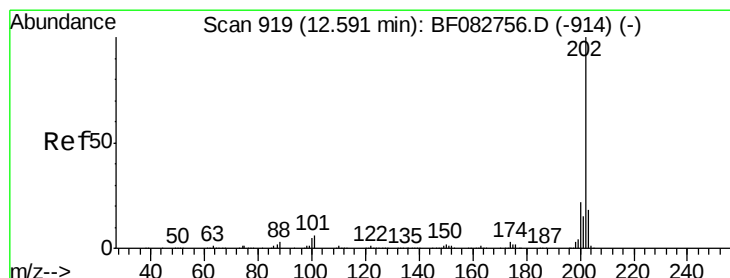
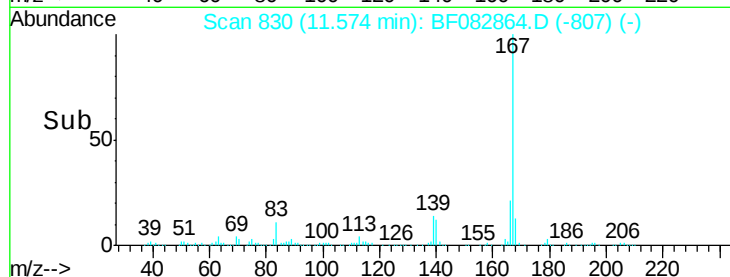
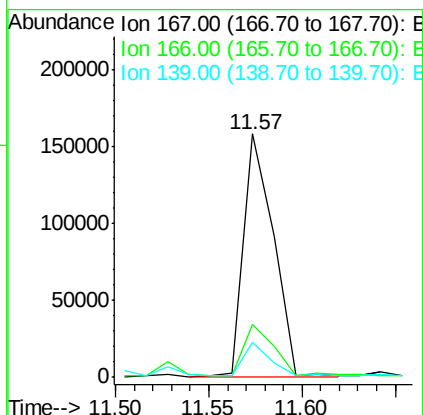
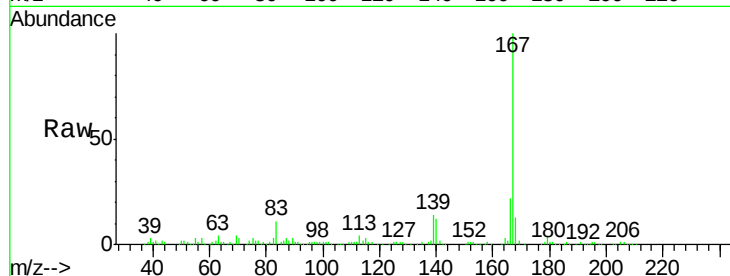




#72
 Carbazole
 Concen: 5.63 ng
 RT: 11.57 min Scan# 830
 Delta R.T. -0.03 min
 Lab File: BF082864.D
 Acq: 10 Nov 2015 10:11

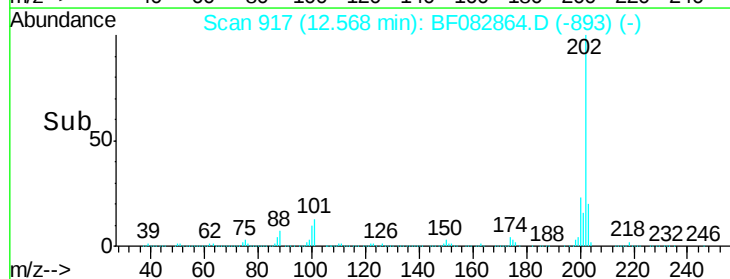
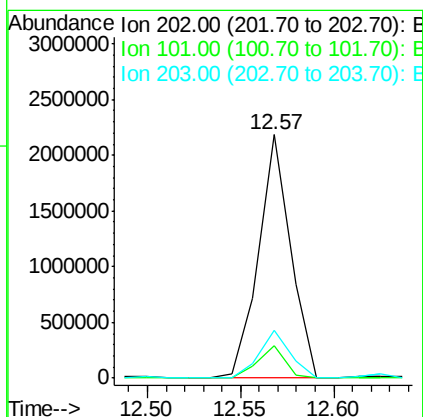
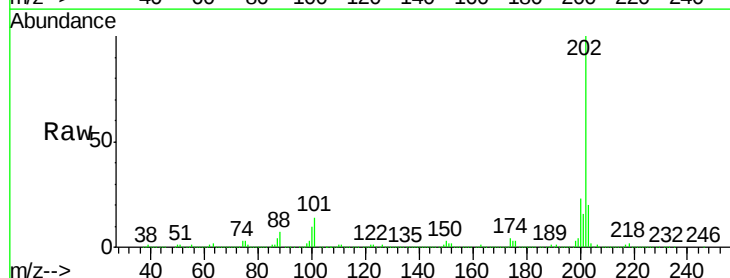
Instrument :
 BNA_F
 ClientSampleId :
 1

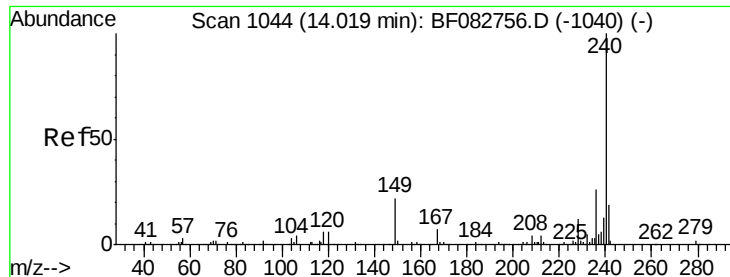
Tot Ion:167 Resp: 173606
 Ion Ratio Lower Upper
 167 100
 166 21.6 18.7 28.1
 139 14.2 11.8 17.6



#74
 Fluoranthene
 Concen: 71.88 ng
 RT: 12.57 min Scan# 917
 Delta R.T. -0.02 min
 Lab File: BF082864.D
 Acq: 10 Nov 2015 10:11

Tgt Ion:202 Resp: 2580475
 Ion Ratio Lower Upper
 202 100
 101 13.5 0.0 30.5
 203 19.7 0.0 38.5





#75

Chrvsene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

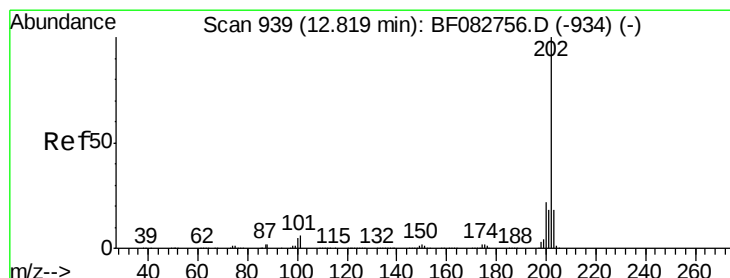
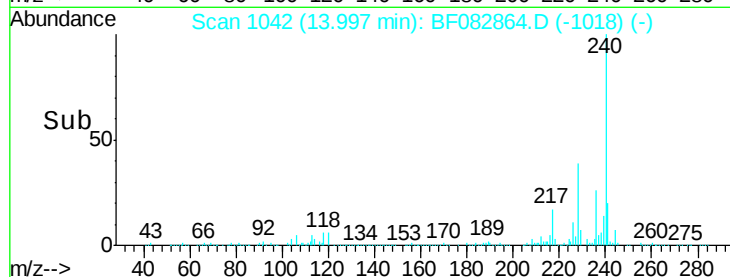
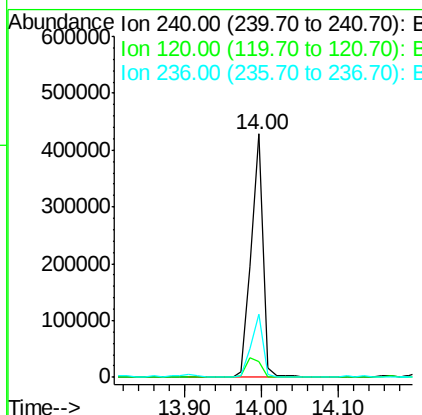
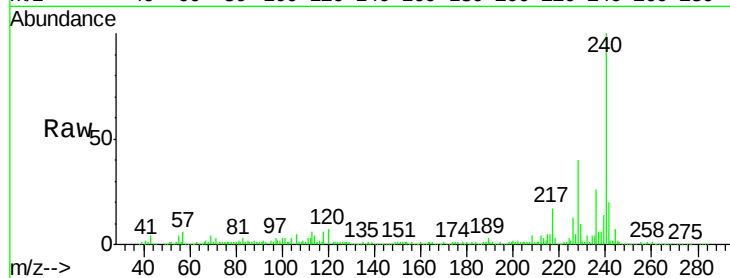
BNA_F

ClientSampled :

1

Tot Ion:240 Resp: 451357

Ion	Ratio	Lower	Upper
240	100		
120	6.5	10.9	16.3#
236	25.9	21.6	32.4



#77

Pyrene

Concen: 76.76 ng

RT: 12.80 min Scan# 937

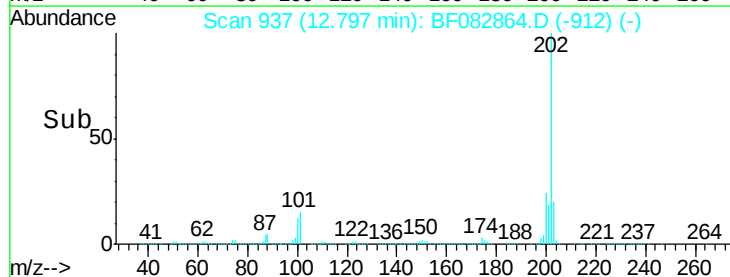
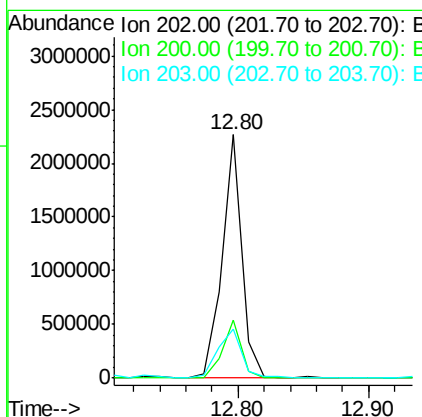
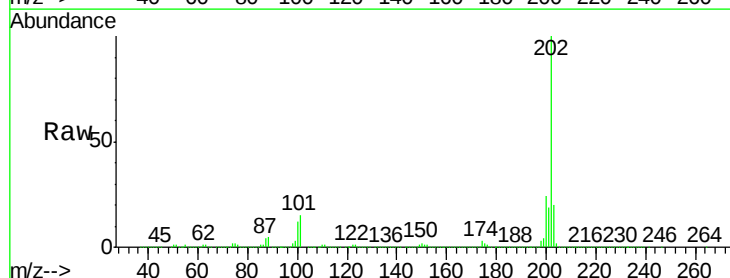
Delta R.T. -0.01 min

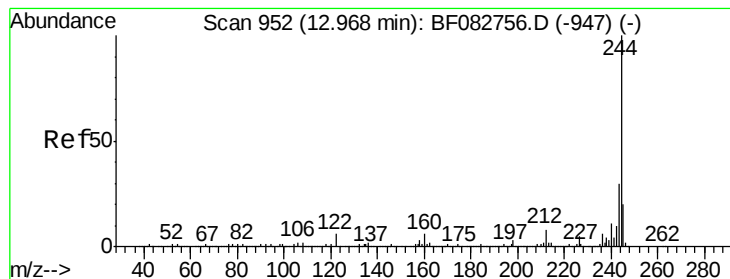
Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Tgt Ion:202 Resp: 2379317

Ion	Ratio	Lower	Upper
202	100		
200	23.6	18.7	28.1
203	20.1	14.8	22.2





#78

Terphenyl-d14

Concen: 75.58 ng

RT: 12.95 min Scan# 950

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

ClientSampleId :

1

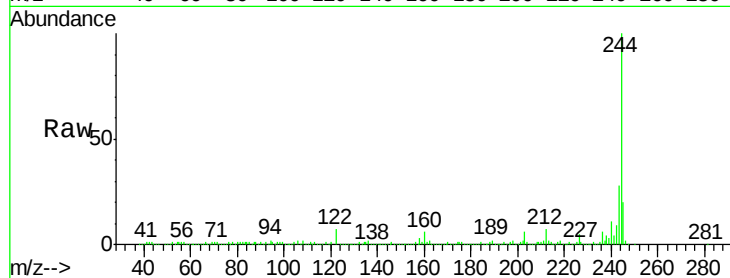
Tot Ion:244 Resp: 1438356

Ion Ratio Lower Upper

244 100

212 7.3 7.6 11.4#

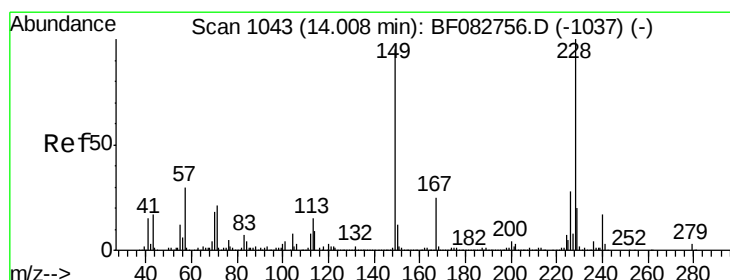
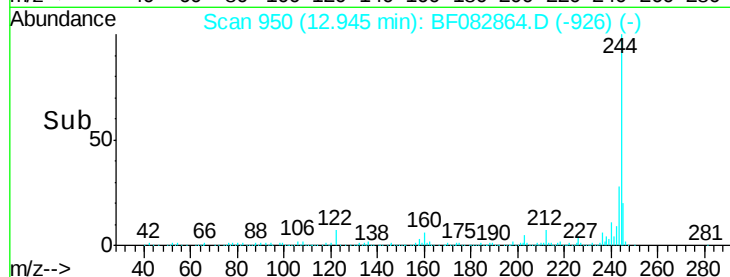
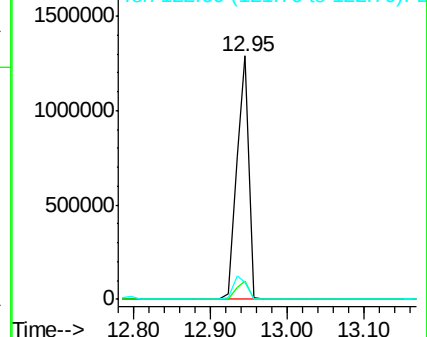
122 7.2 11.3 16.9#



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: 49.39 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

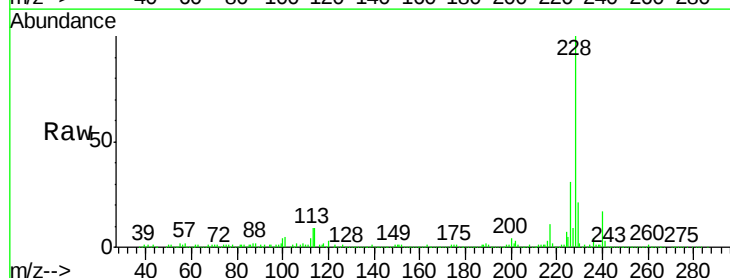
Tgt Ion:228 Resp: 1393939

Ion Ratio Lower Upper

228 100

226 30.6 23.4 35.2

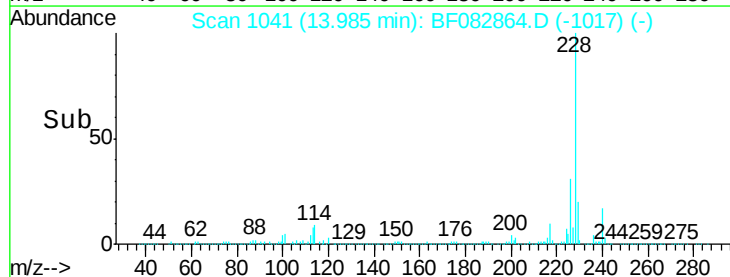
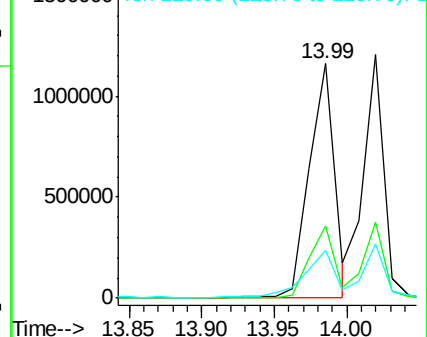
229 20.6 16.3 24.5

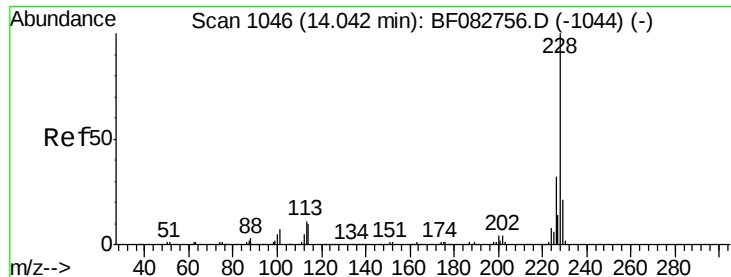


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 34.77 ng

RT: 14.02 min Scan# 1044

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

ClientSampleId :

1

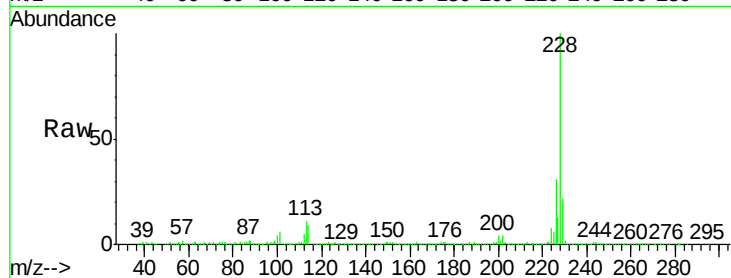
Tot Ion:228 Resp: 898921

Ion Ratio Lower Upper

228 100

226 31.2 25.5 38.3

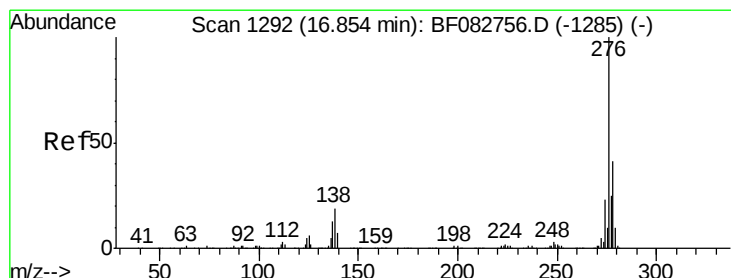
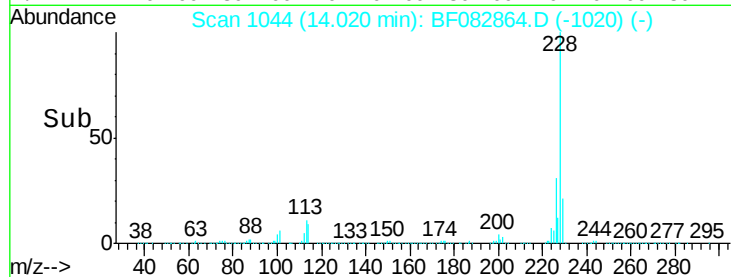
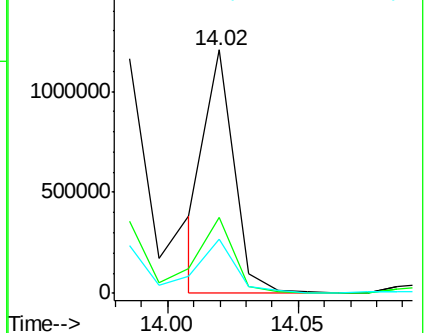
229 22.4 16.3 24.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 17.07 ng

RT: 16.81 min Scan# 1288

Delta R.T. -0.05 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

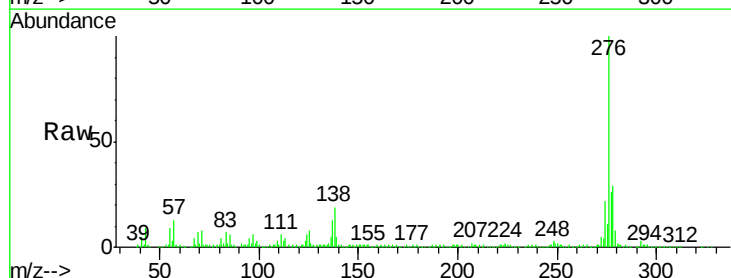
Tgt Ion:276 Resp: 379964

Ion Ratio Lower Upper

276 100

138 21.5 15.3 22.9

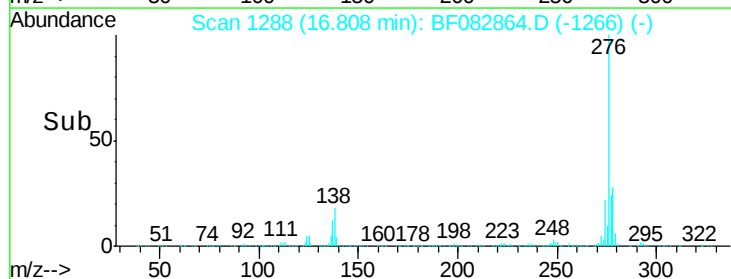
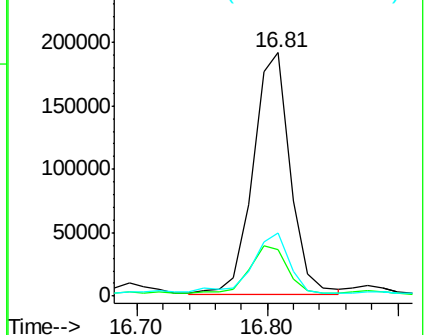
277 28.1 20.2 30.4

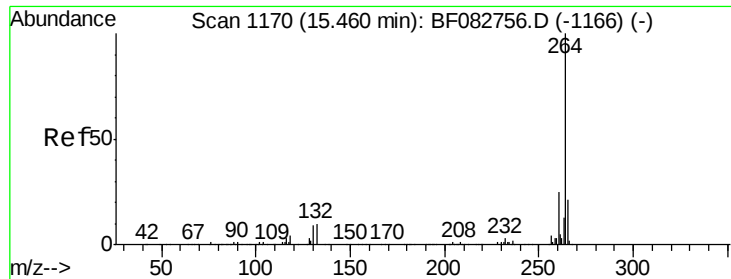


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

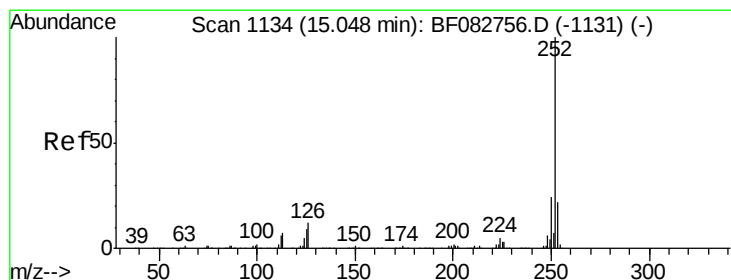
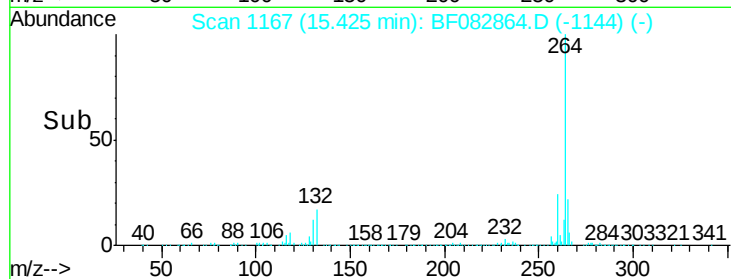
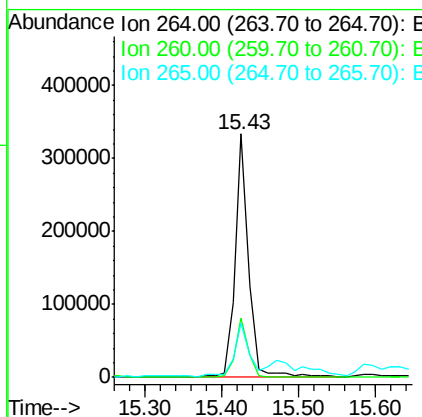
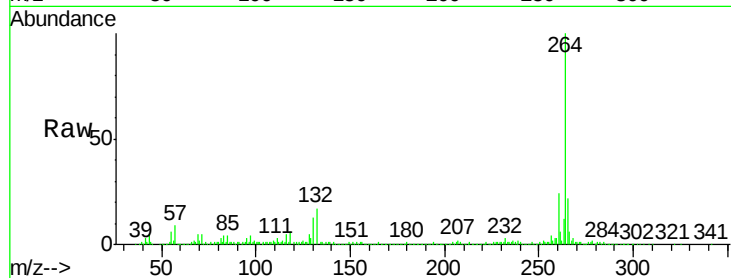




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.43 min Scan# 1167
Delta R.T. -0.03 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

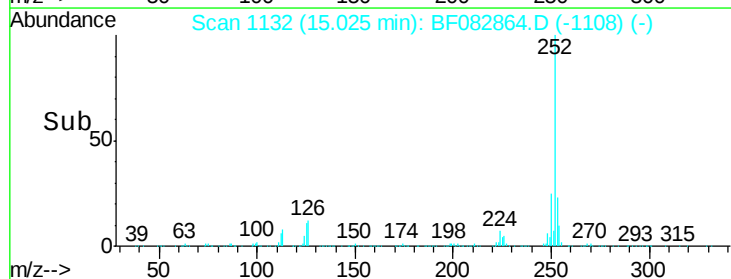
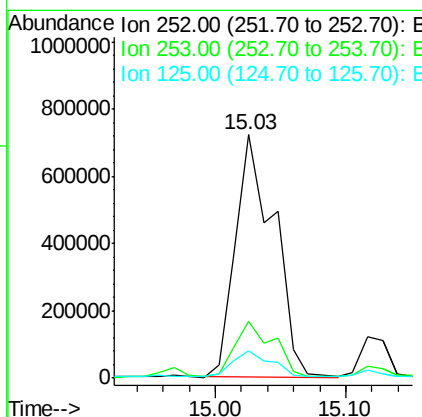
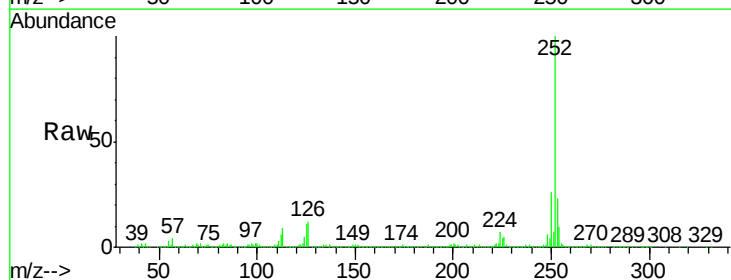
Instrument :
BNA_F
ClientSampleId :
1

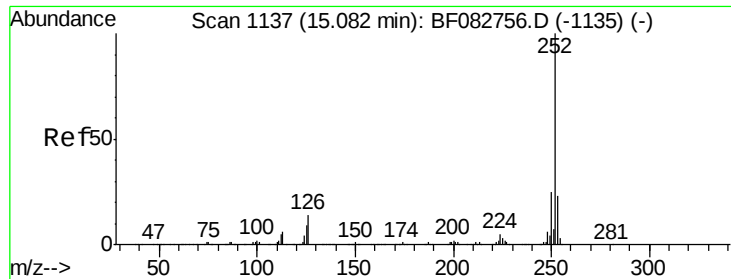
Tot Ion:264 Resp: 411747
Ion Ratio Lower Upper
264 100
260 24.3 19.8 29.6
265 22.4 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 56.06 ng
RT: 15.03 min Scan# 1132
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion:252 Resp: 1481619
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.8
125 11.3 5.4 8.2#

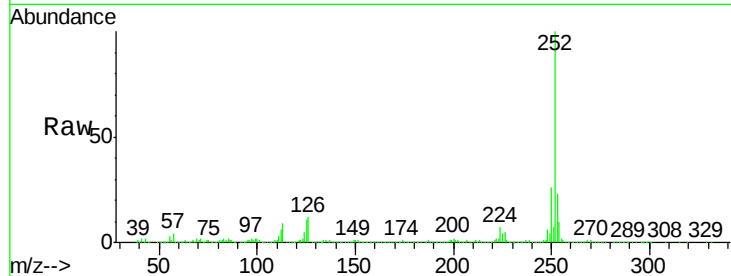




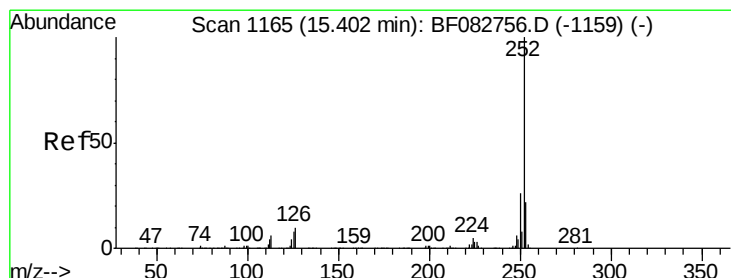
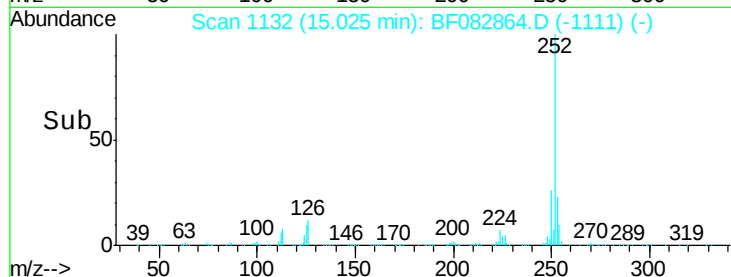
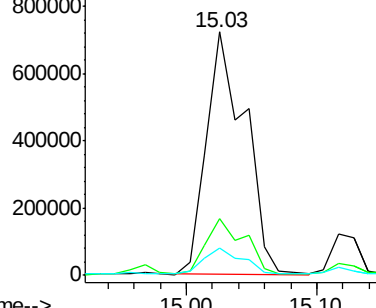
#88
Benzo(k)fluoranthene
Concen: 63.19 ng
RT: 15.03 min Scan# 1132
Delta R.T. -0.06 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Instrument :
BNA_F
ClientSampleId :
1

Tot Ion:252 Resp: 1481619
Ion Ratio Lower Upper
252 100
253 23.1 17.9 26.9
125 11.3 3.5 5.3#

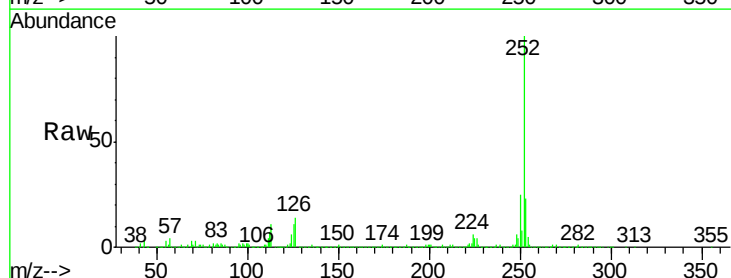


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

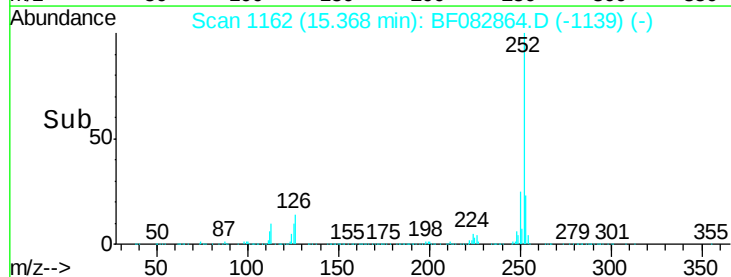
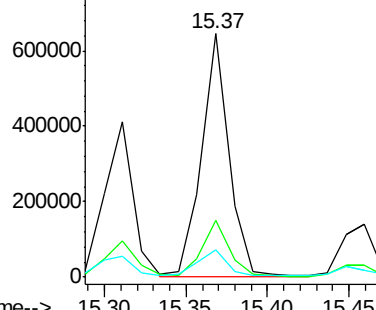


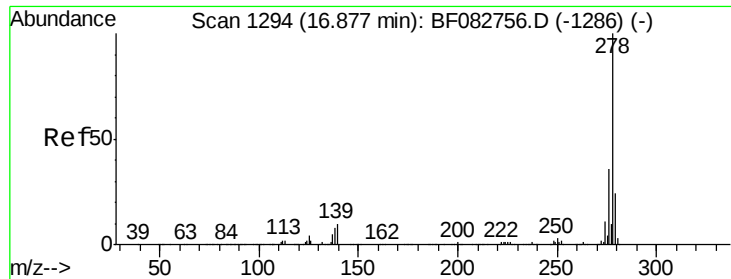
#89
Benzo(a)pyrene
Concen: 32.27 ng
RT: 15.37 min Scan# 1162
Delta R.T. -0.03 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion:252 Resp: 738916
Ion Ratio Lower Upper
252 100
253 23.2 17.3 25.9
125 11.4 7.1 10.7#



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

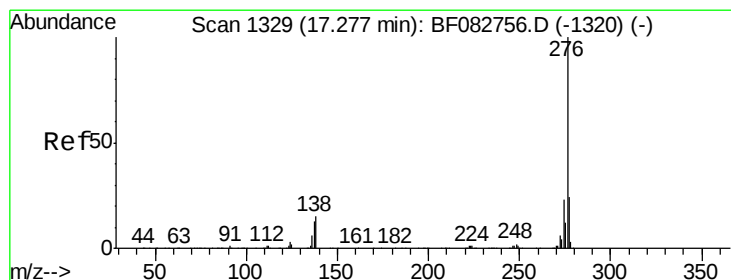
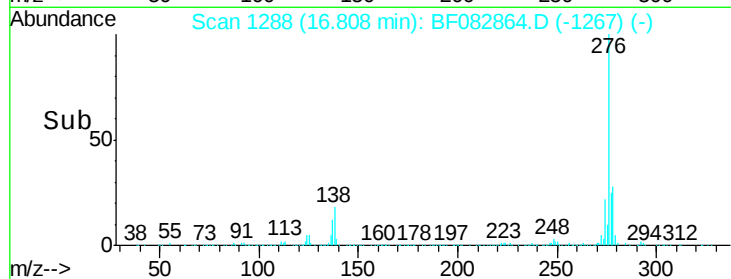
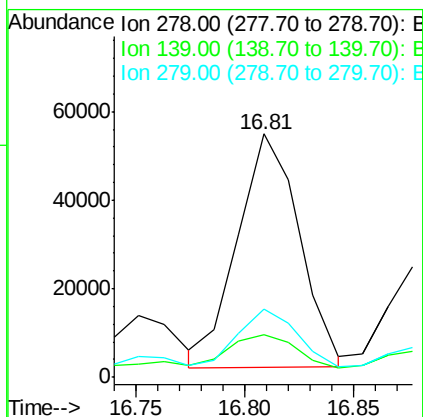
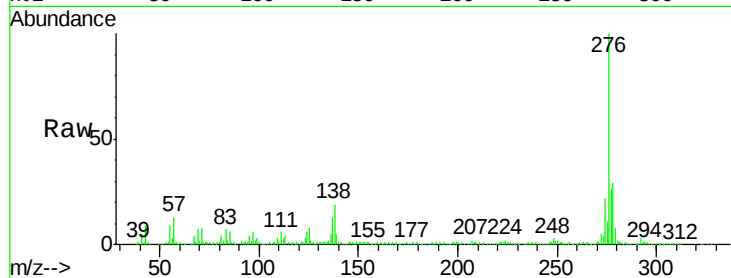




#90
Dibenzo(a,h)anthracene
Concen: 5.41 ng
RT: 16.81 min Scan# 1288
Delta R.T. -0.06 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Instrument :
BNA_F
ClientSampleId :
1

Tot Ion:278 Resp: 104928
Ion Ratio Lower Upper
278 100
139 17.6 9.9 14.9#
279 28.1 19.6 29.4



#91
Benzo(g,h,i)perylene
Concen: 18.51 ng
RT: 17.22 min Scan# 1324
Delta R.T. -0.05 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion:276 Resp: 343828
Ion Ratio Lower Upper
276 100
277 23.8 19.2 28.8
138 21.3 13.1 19.7#

