

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061316\
 Data File : BF087998.D
 Acq On : 14 Jun 2016 9:44
 Operator : UM/SJ
 Sample : H3395-10DL 2X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 14 13:38:38 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 14:10:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	128536	20.00	ng	0.01
21) Naphthalene-d8	8.08	136	479992	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	224260	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	332913	20.00	ng	0.01
75) Chrysene-d12	13.95	240	219712	20.00	ng	0.00
86) Perylene-d12	15.37	264	226119	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.38	112	287714	38.27	ng	0.00
7) Phenol-d6	6.43	99	402948	44.22	ng	0.00
23) Nitrobenzene-d5	7.36	82	230340	28.02	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	62225	26.28	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	365579	21.47	ng	0.00
78) Terphenyl-d14	12.90	244	197426	20.45	ng	0.00

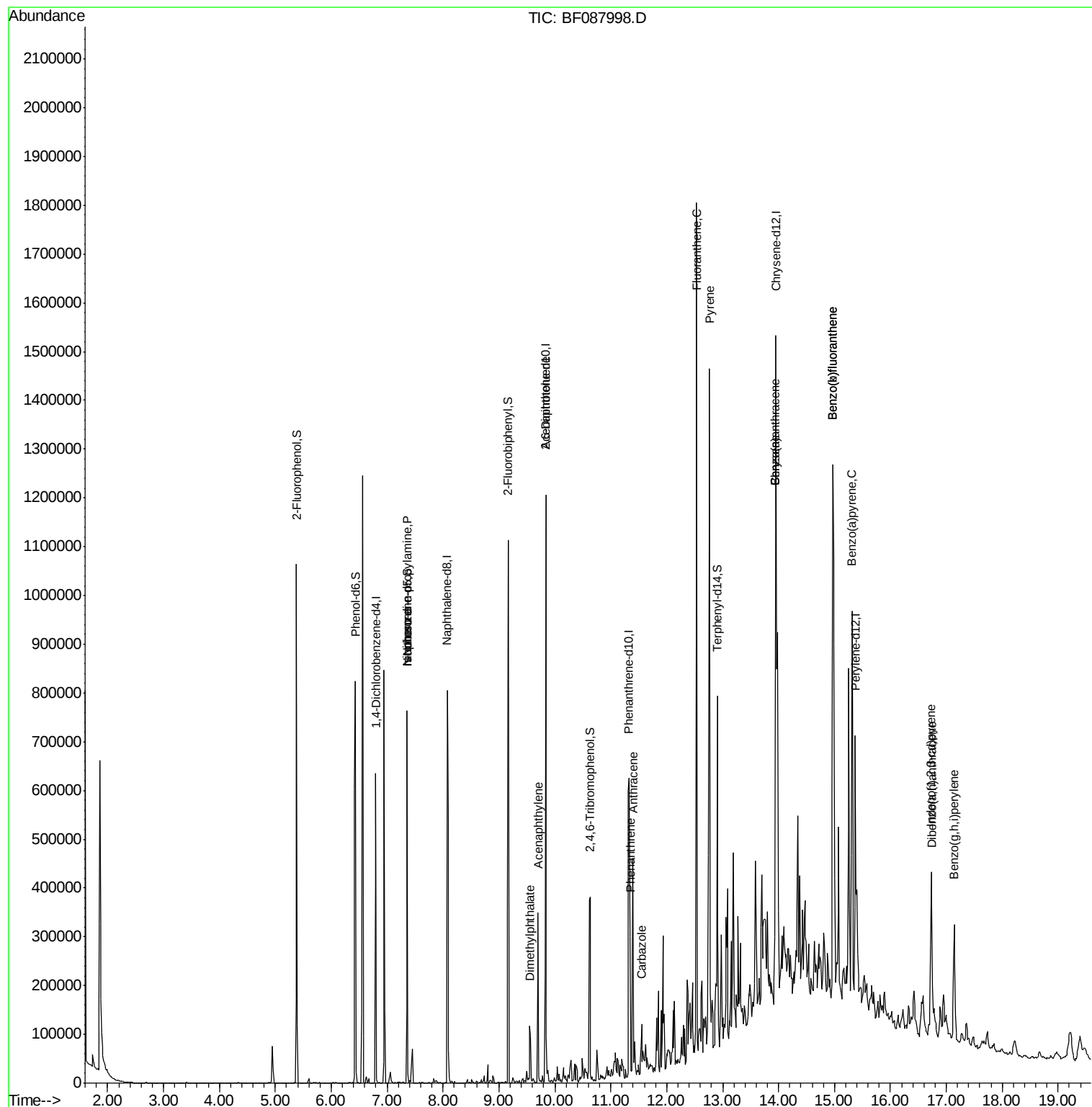
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.44	94	3605	Below Cal		93
19) n-Nitroso-di-n-propylamine	7.36	70	29274	5.02 ng	#	72
25) Isophorone	7.36	82	192894	12.67 ng	#	65
45) 1,1'-Biphenyl	9.26	154	2778	Below Cal		97
48) Acenaphthylene	9.70	152	199079	8.62 ng		98
49) Dimethylphthalate	9.55	163	46942	2.89 ng		99
50) 2,6-Dinitrotoluene	9.84	165	29161	7.84 ng	#	39
57) Fluorene	10.39	166	21431	Below Cal		90
70) Phenanthrene	11.35	178	173680	9.94 ng		97
71) Anthracene	11.39	178	169413	9.61 ng		98
72) Carbazole	11.55	167	47286	2.87 ng		97
74) Fluoranthene	12.54	202	809546	43.91 ng		97
77) Pvrene	12.76	202	777142	47.67 ng		100
80) Benzo(a)anthracene	13.94	228	519225	41.47 ng	#	86
82) Chrysene	13.94	228	519225	44.08 ng	#	91
85) Indeno(1,2,3-cd)pyrene	16.73	276	215773	19.72 ng	#	100
87) Benzo(b)fluoranthene	14.97	252	859098	54.51 ng	#	93
88) Benzo(k)fluoranthene	14.97	252	859098	72.26 ng		99
89) Benzo(a)pvrene	15.31	252	352553	27.65 ng		97
90) Dibenzo(a,h)anthracene	16.74	278	64962	5.49 ng		93
91) Benzo(g,h,i)perylene	17.14	276	180584	14.82 ng		99

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

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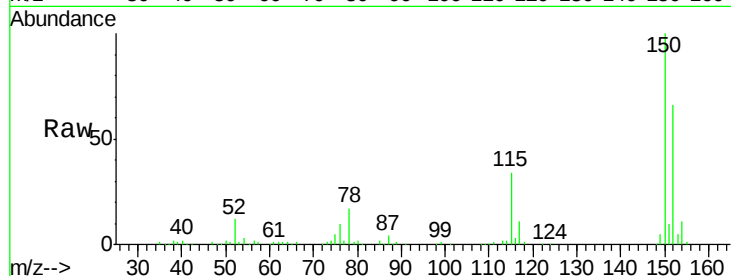


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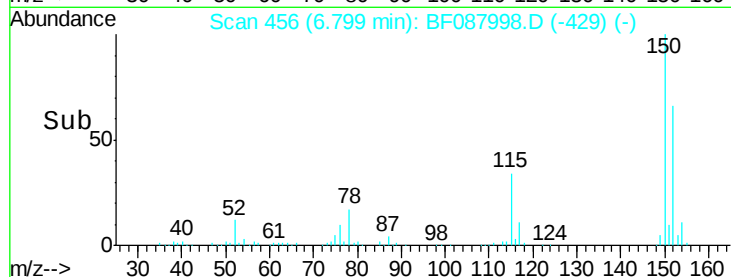
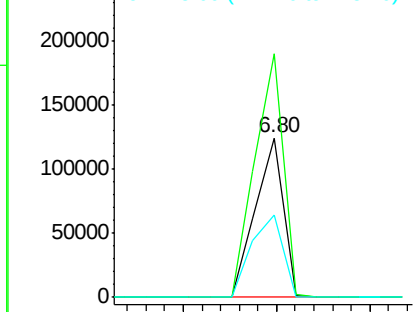
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 456
Delta R.T. 0.01 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	123.8	185.6
115	51.3	39.6	59.4



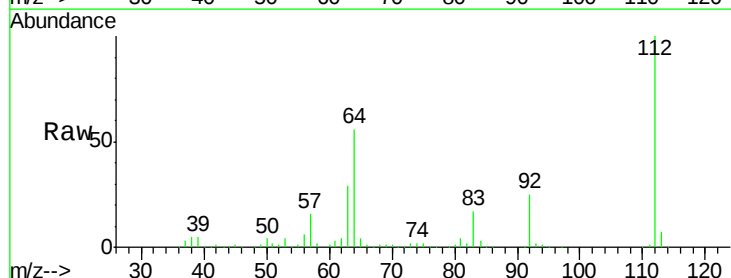
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



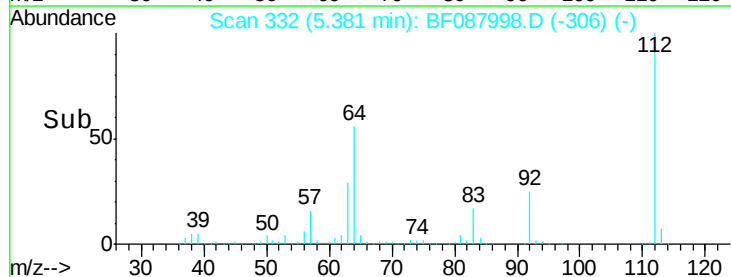
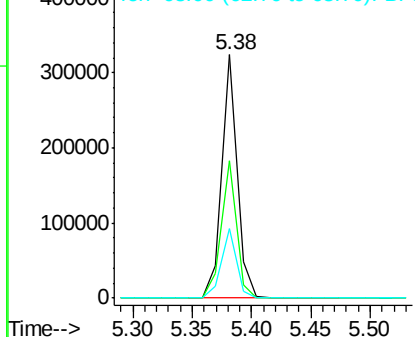
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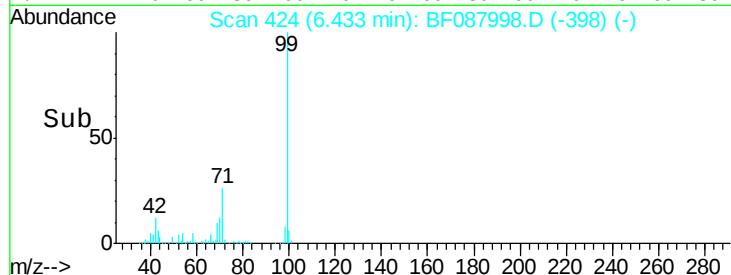
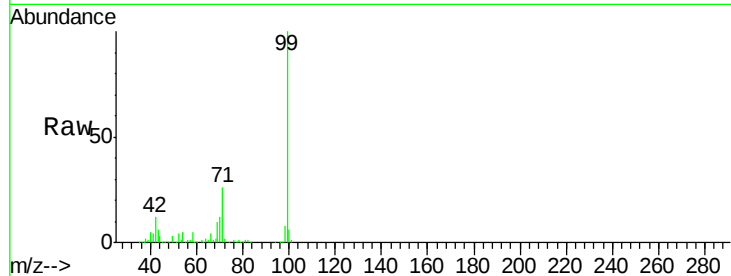
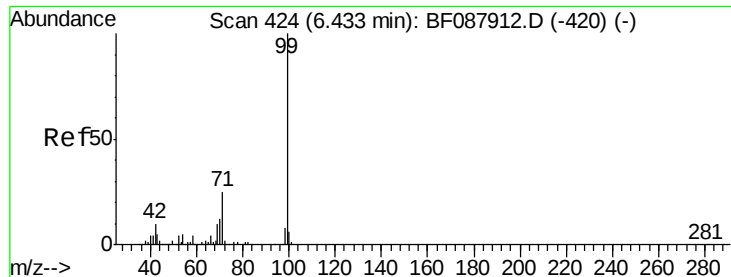
2-Fluorophenol
Concen: 38.27 ng
RT: 5.38 min Scan# 332
Delta R.T. -0.00 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.4	42.2	63.2
63	28.7	21.8	32.8



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: 44.22 ng

RT: 6.43 min Scan# 424

Delta R.T. -0.00 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

Instrument :

BNA_F

ClientSampleId :

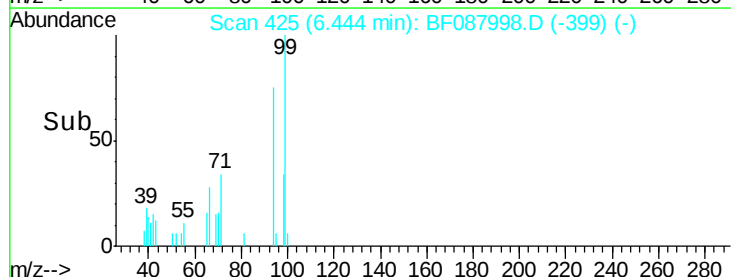
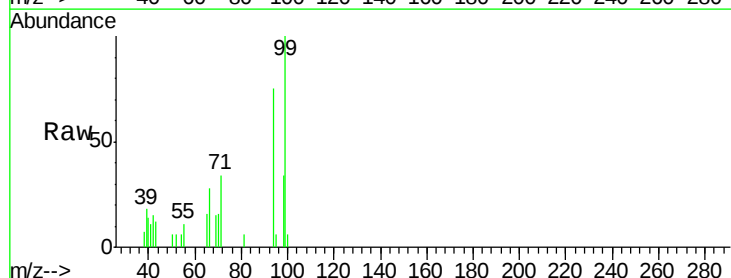
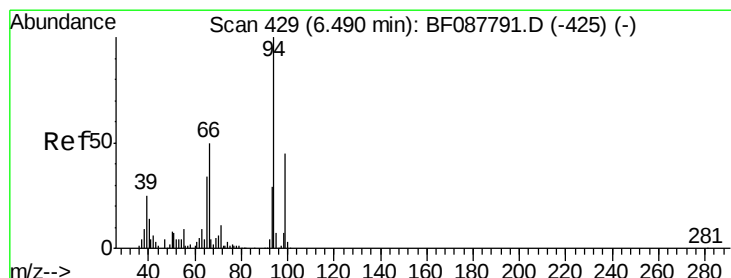
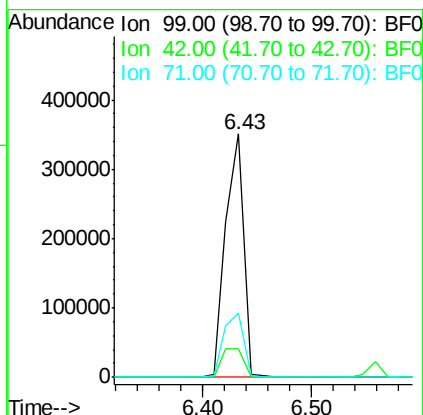
Tot Ion: 99 Resp: 402948

Ion Ratio Lower Upper

99 100

42 11.6 12.2 18.2#

71 26.4 23.4 35.0



#10

Phenol

Concen: Below Cal

RT: 6.44 min Scan# 425

Delta R.T. -0.00 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

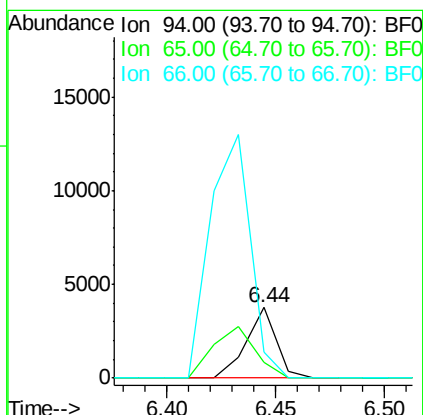
Tgt Ion: 94 Resp: 3605

Ion Ratio Lower Upper

94 100

65 21.6 5.9 45.9

66 37.0 14.0 54.0

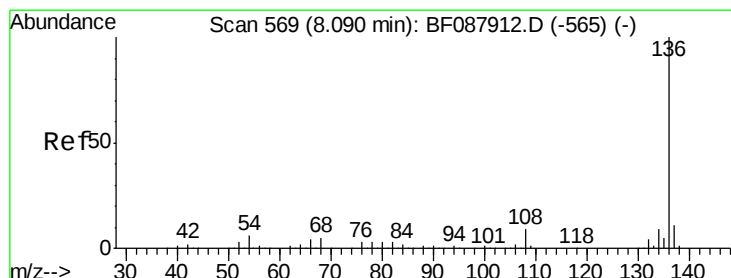
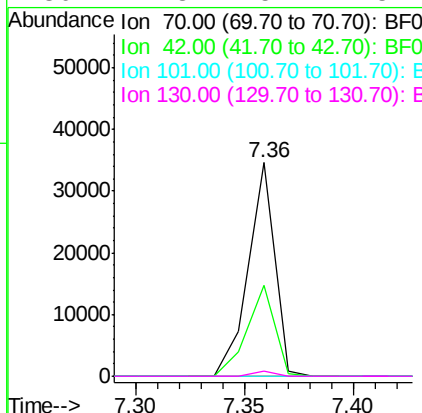
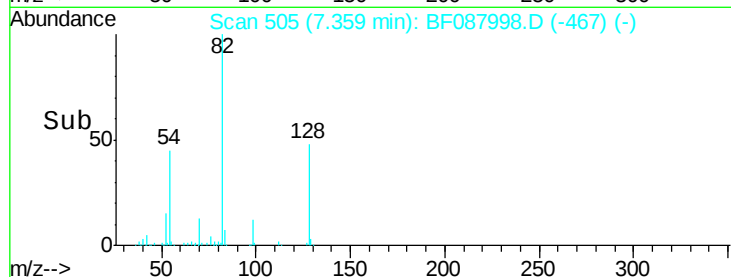
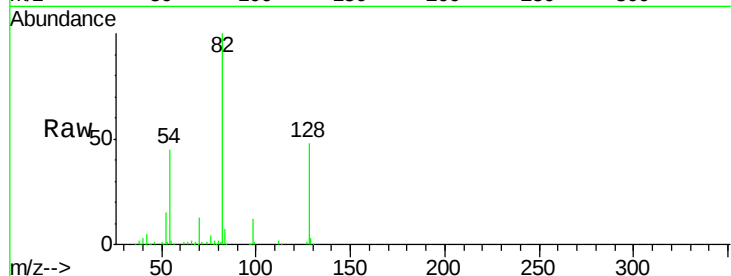




#19
n-Nitroso-di-n-propylamine
Concen: 5.02 ng
RT: 7.36 min Scan# 505
Delta R.T. 0.14 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

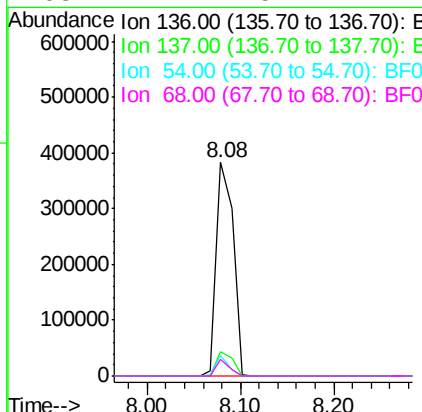
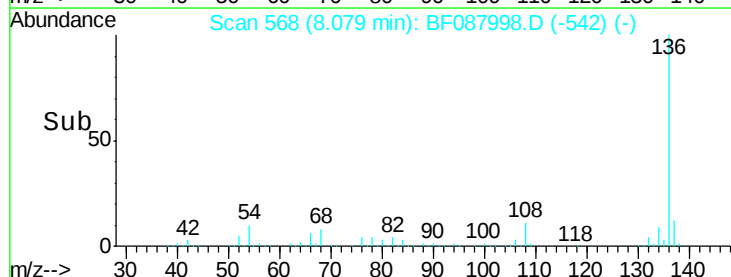
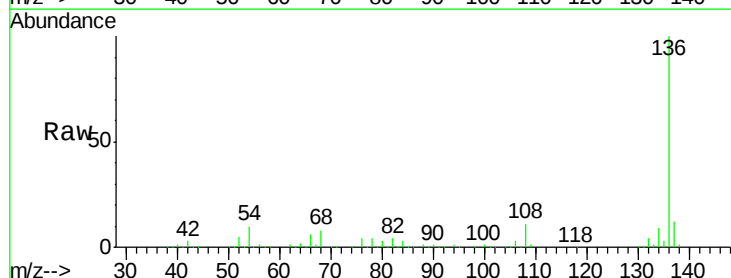
Instrument :
BNA_F
ClientSampleId :

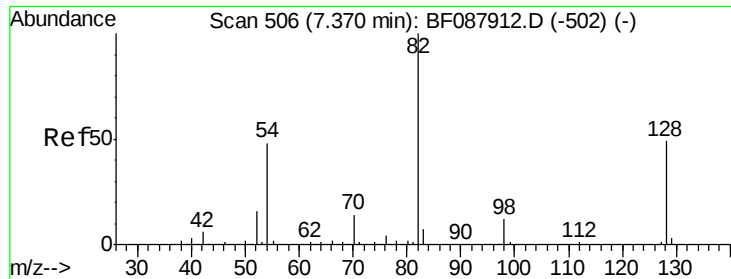
Tot Ion: 70 Resp: 29274
Ion Ratio Lower Upper
70 100
42 42.5 49.6 74.4#
101 0.0 7.1 10.7#
130 2.3 15.4 23.2#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.08 min Scan# 568
Delta R.T. -0.00 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Tgt Ion: 136 Resp: 479992
Ion Ratio Lower Upper
136 100
137 11.6 9.1 13.7
54 9.7 6.6 10.0
68 7.7 5.1 7.7

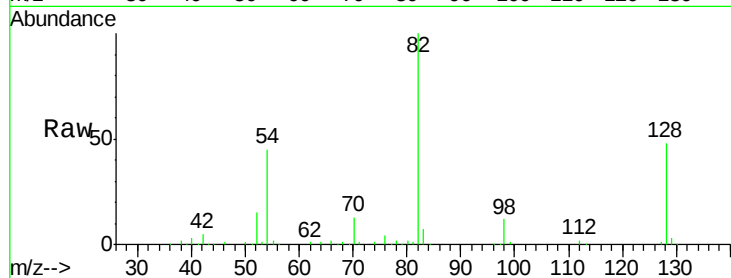




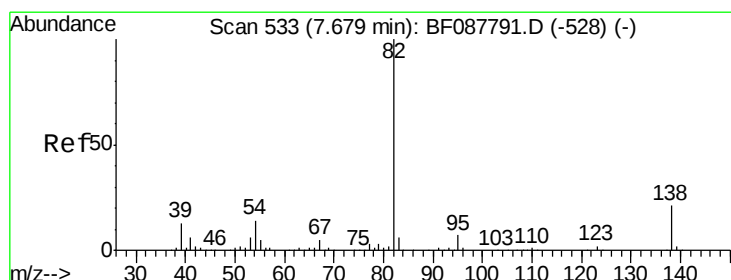
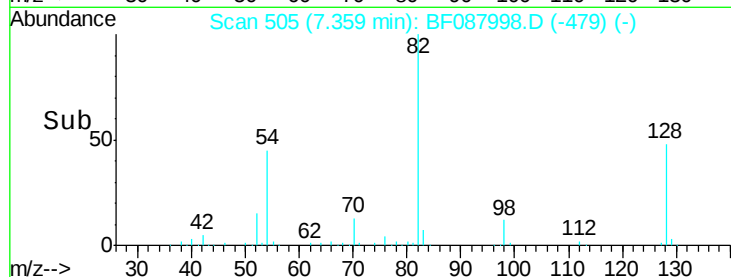
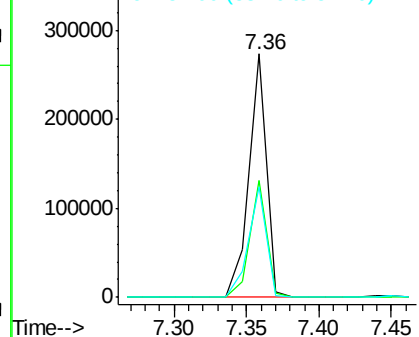
#23
Nitrobenzene-d5
Concen: 28.02 ng
RT: 7.36 min Scan# 505
Delta R.T. -0.00 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 230340
Ion Ratio Lower Upper
82 100
128 47.8 35.9 53.9
54 45.4 40.9 61.3

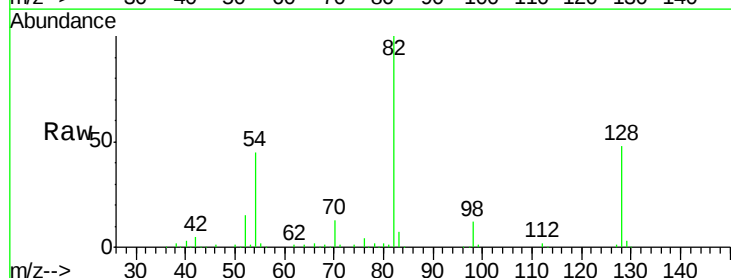


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

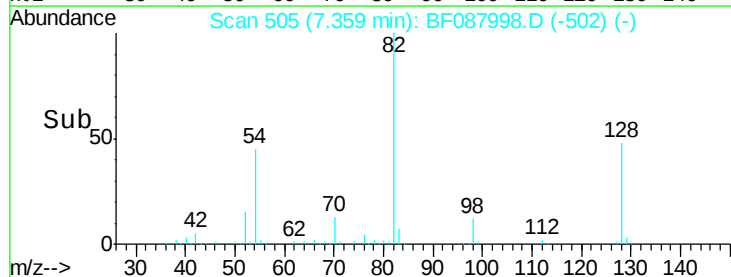
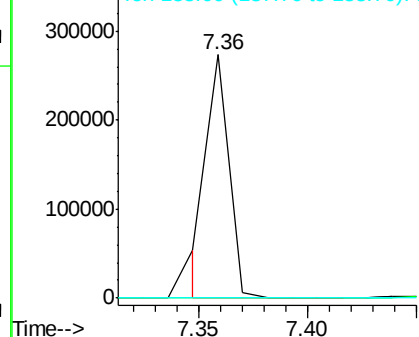


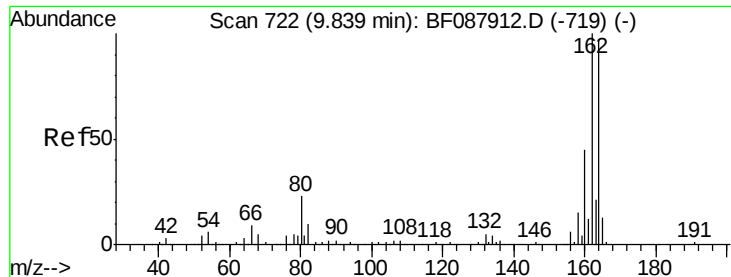
#25
Isophorone
Concen: 12.67 ng
RT: 7.36 min Scan# 505
Delta R.T. -0.26 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Tgt Ion: 82 Resp: 192894
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.2#
138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.84 min Scan# 722

Delta R.T. -0.00 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

Instrument :

BNA_F

ClientSampleId :

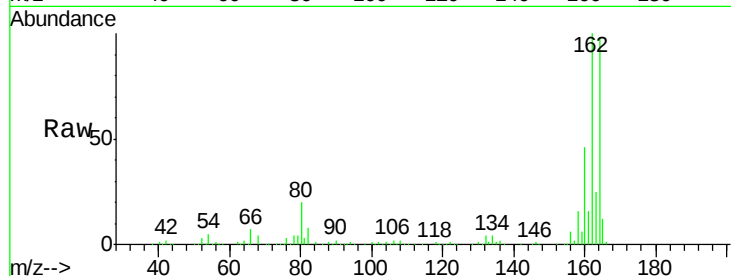
Tot Ion:164 Resp: 224260

Ion Ratio Lower Upper

164 100

162 102.0 85.4 128.2

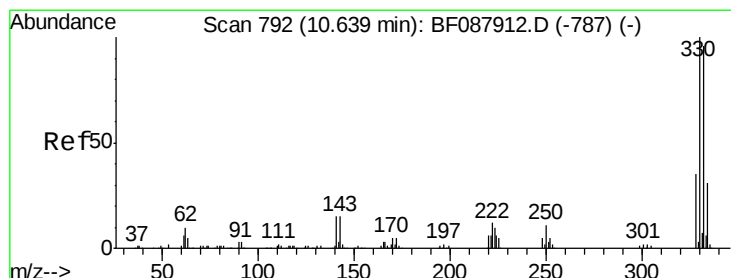
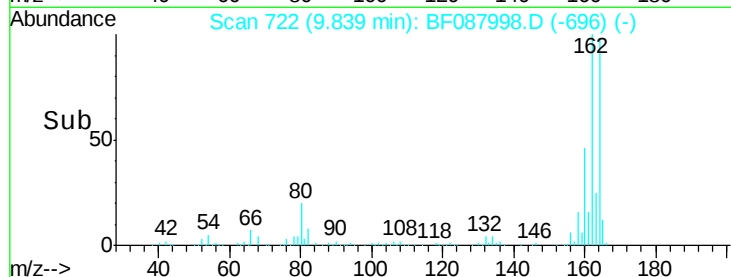
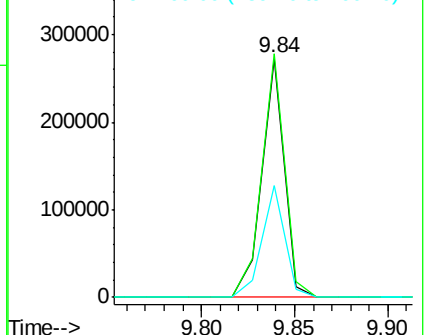
160 47.1 39.5 59.3



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: 26.28 ng

RT: 10.63 min Scan# 791

Delta R.T. -0.00 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

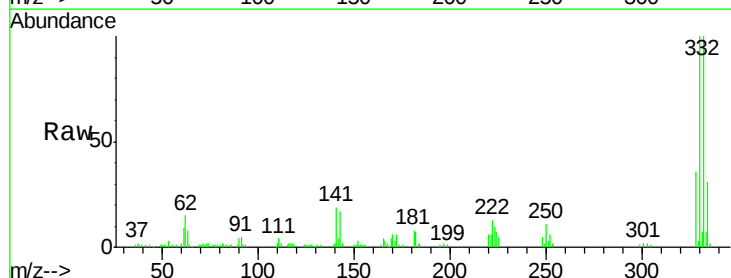
Tgt Ion:330 Resp: 62225

Ion Ratio Lower Upper

330 100

332 99.1 0.0 0.0#

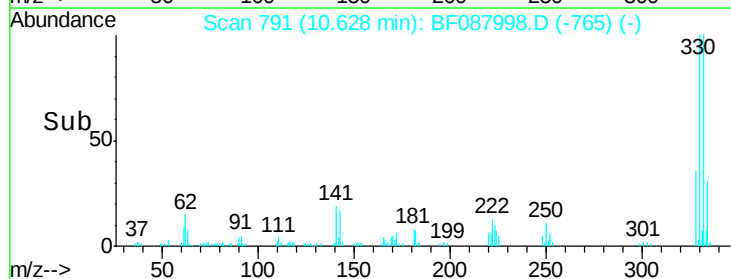
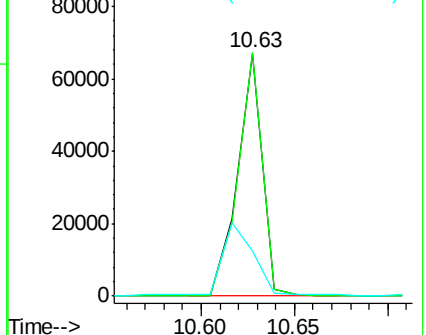
141 40.3 0.0 0.0#

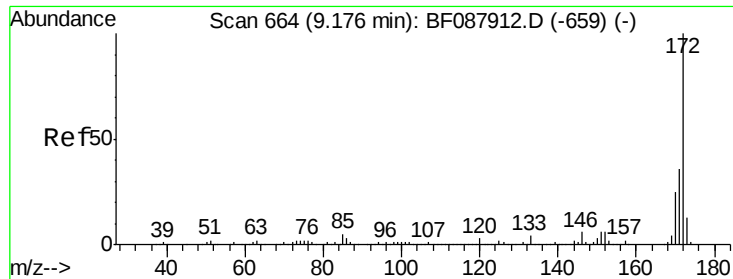


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

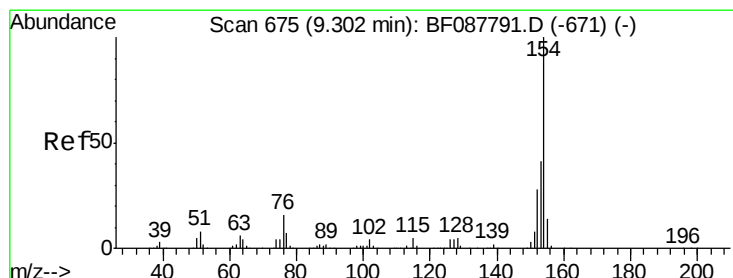
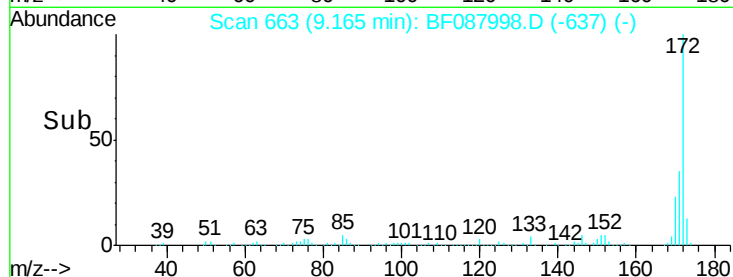
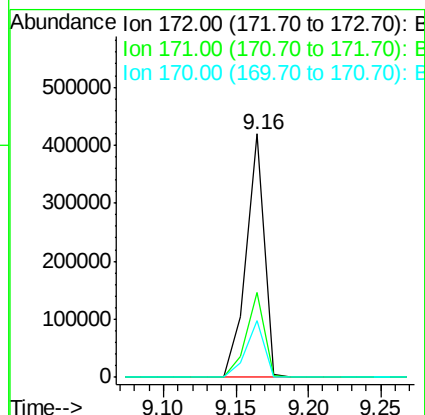
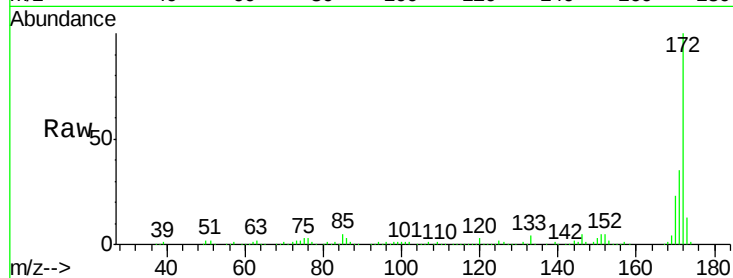




#44
 2-Fluorobiphenyl
 Concen: 21.47 ng
 RT: 9.16 min Scan# 663
 Delta R.T. -0.00 min
 Lab File: BF087998.D
 Acq: 14 Jun 2016 9:44

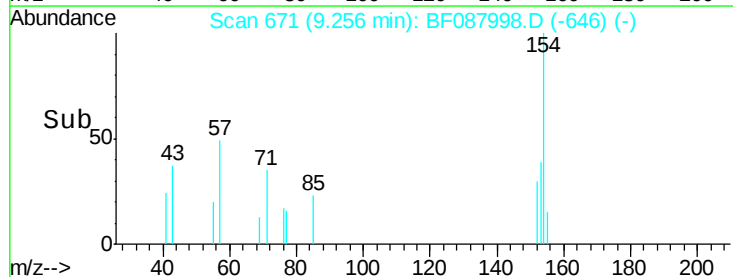
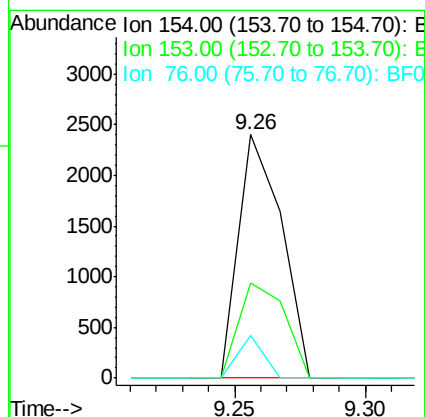
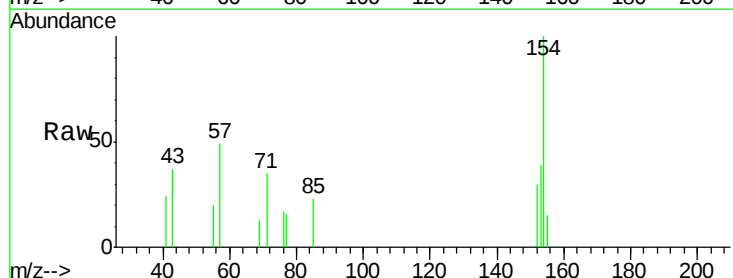
Instrument :
 BNA_F
 ClientSampleId :

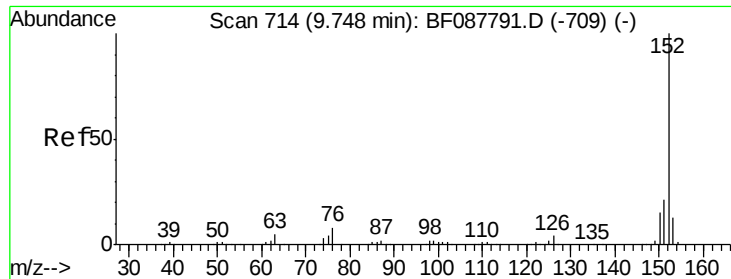
Tot Ion:172 Resp: 365579
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.6 43.0
 170 23.1 19.2 28.8



#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.26 min Scan# 671
 Delta R.T. -0.01 min
 Lab File: BF087998.D
 Acq: 14 Jun 2016 9:44

Tgt Ion:154 Resp: 2778
 Ion Ratio Lower Upper
 154 100
 153 39.1 20.6 60.6
 76 17.4 0.0 35.1

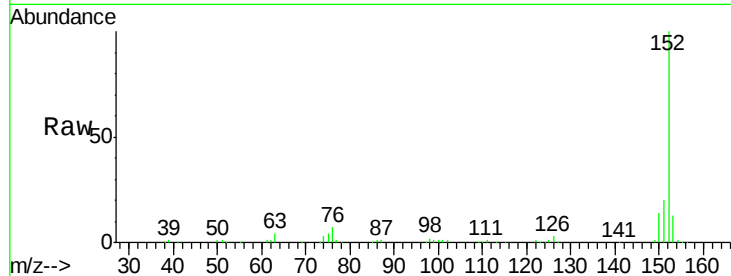




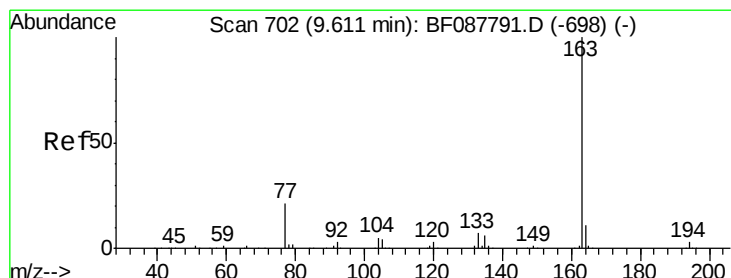
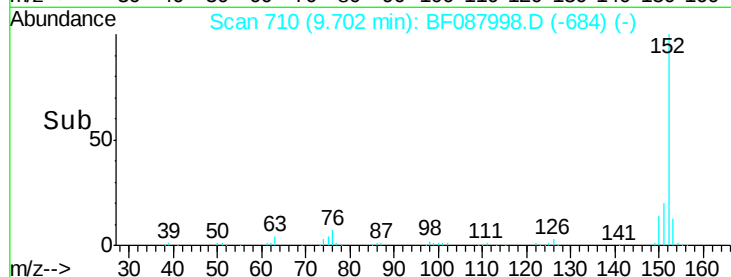
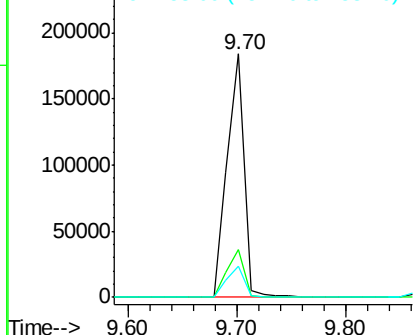
#48
Acenaphthylene
Concen: 8.62 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.00 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 199079
Ion Ratio Lower Upper
152 100
151 19.5 16.2 24.4
153 12.8 11.0 16.6

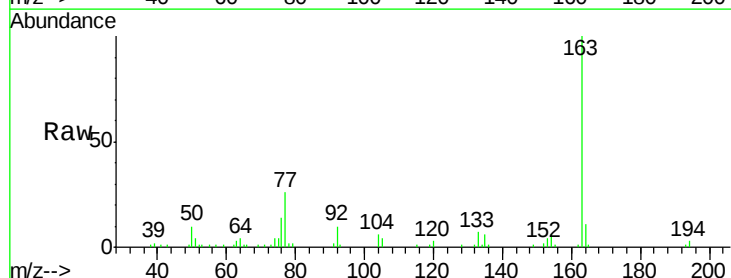


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

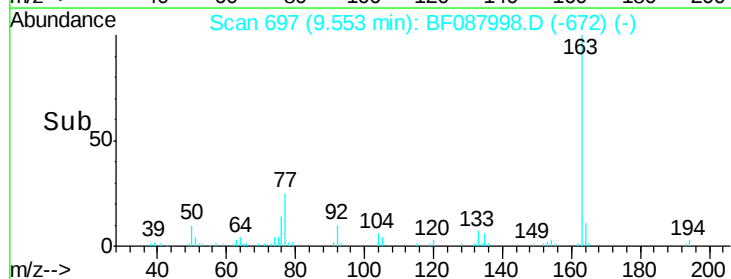
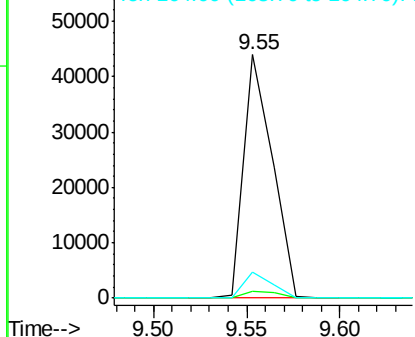


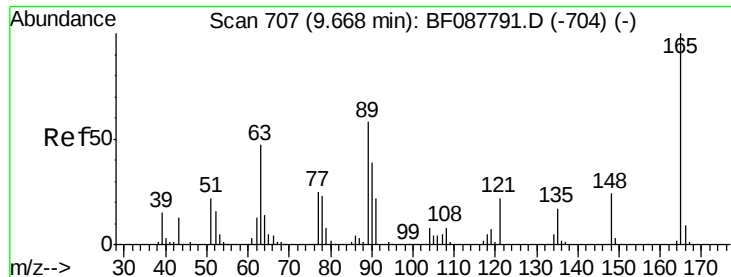
#49
Dimethylphthalate
Concen: 2.89 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.01 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Tgt Ion:163 Resp: 46942
Ion Ratio Lower Upper
163 100
194 3.0 2.8 4.2
164 10.6 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

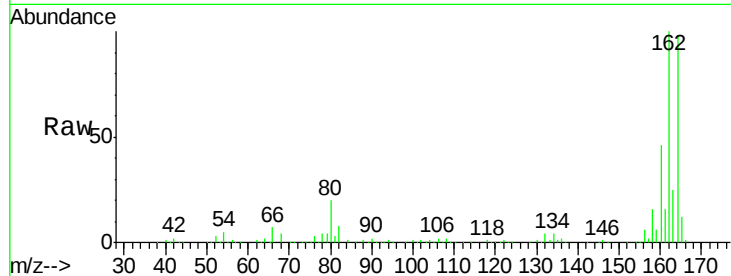




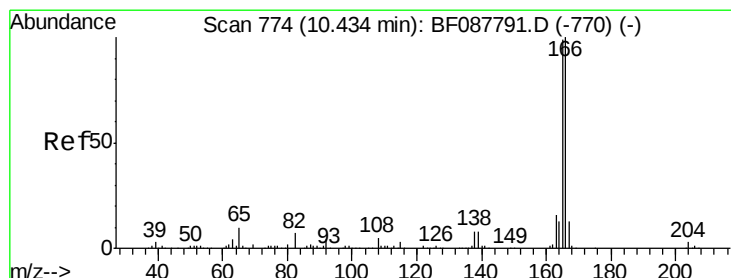
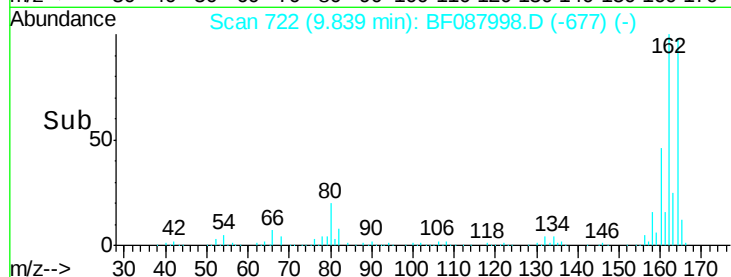
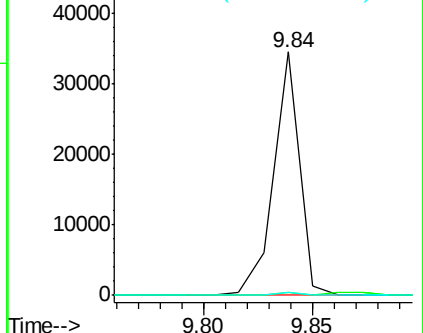
#50
2,6-Dinitrotoluene
Concen: 7.84 ng
RT: 9.84 min Scan# 722
Delta R.T. 0.22 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	28.1	42.1#
89	1.3	32.2	48.2#

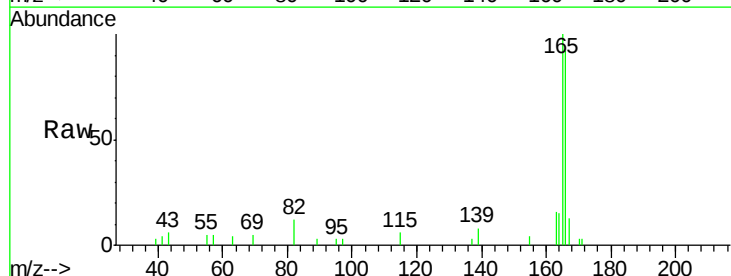


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

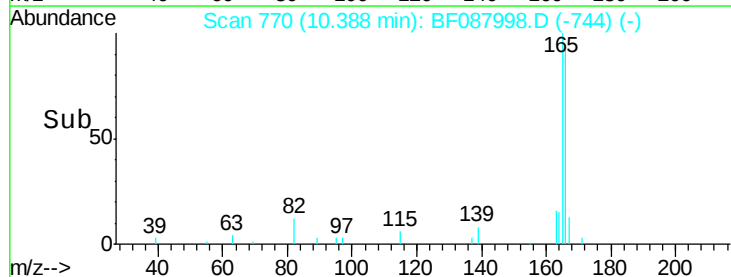
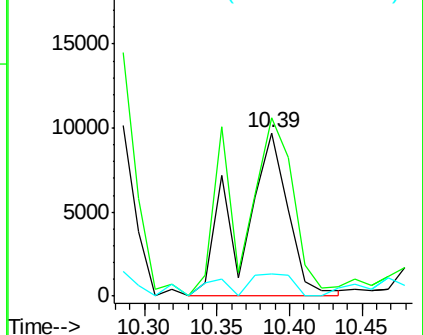


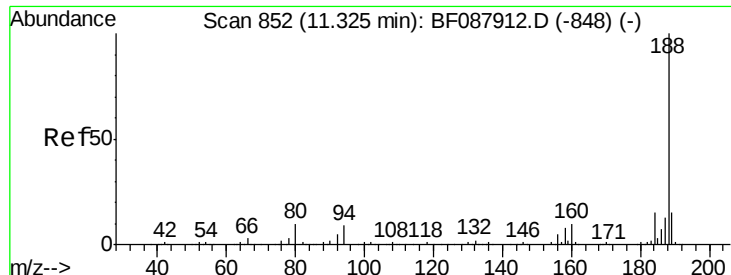
#57
Fluorene
Concen: Below Cal
RT: 10.39 min Scan# 770
Delta R.T. -0.00 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Tgt Ion	Ratio	Lower	Upper
166	100		
165	109.0	77.8	116.8
167	13.6	11.2	16.8



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

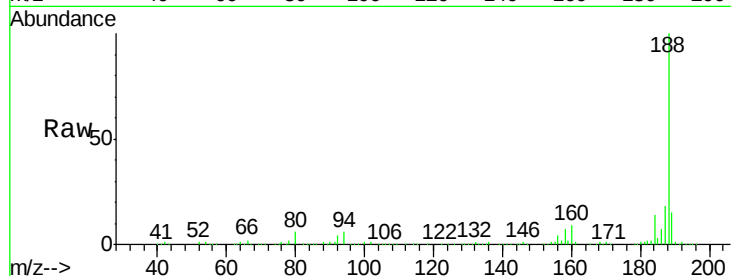




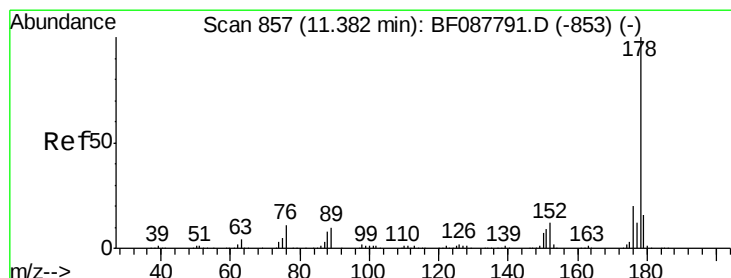
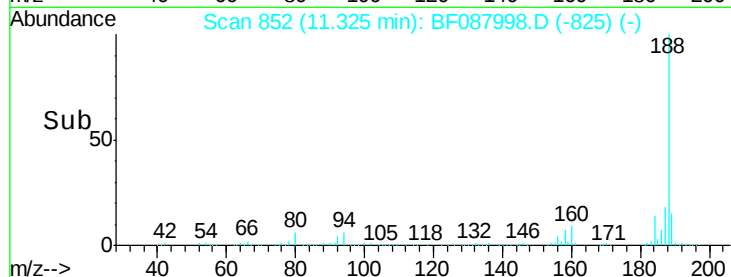
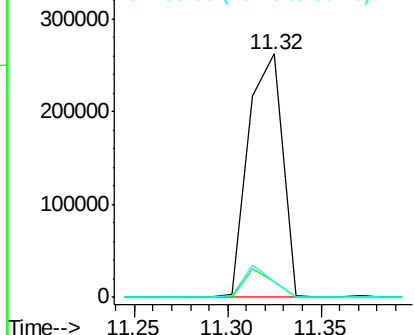
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.32 min Scan# 852
Delta R.T. 0.01 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 332913
Ion Ratio Lower Upper
188 100
94 6.3 9.0 13.6#
80 6.5 10.0 15.0#

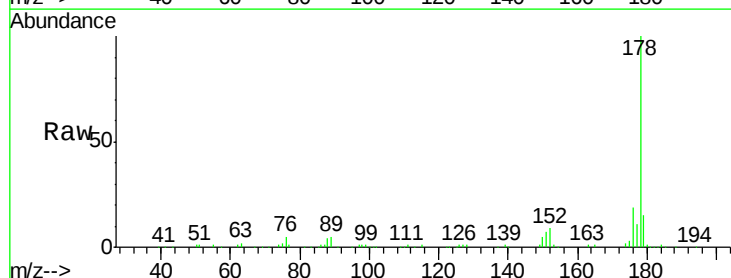


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

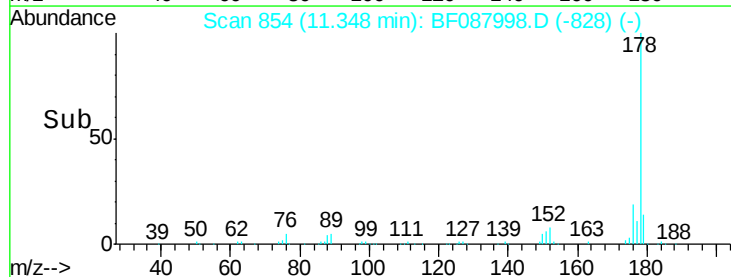
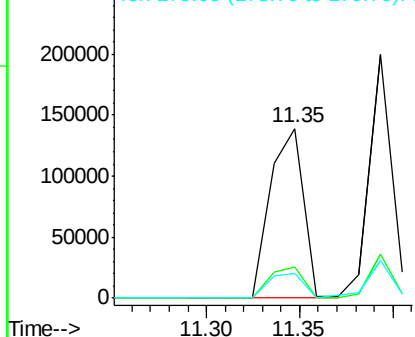


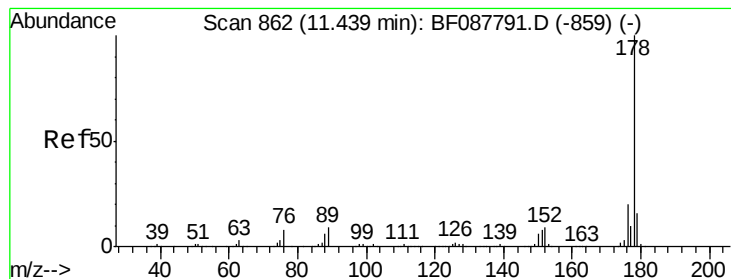
#70
Phenanthrene
Concen: 9.94 ng
RT: 11.35 min Scan# 854
Delta R.T. -0.00 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Tgt Ion:178 Resp: 173680
Ion Ratio Lower Upper
178 100
176 18.5 15.8 23.6
179 14.8 13.0 19.4



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: 9.61 ng

RT: 11.39 min Scan# 858

Delta R.T. -0.00 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

Instrument :

BNA_F

ClientSampleId :

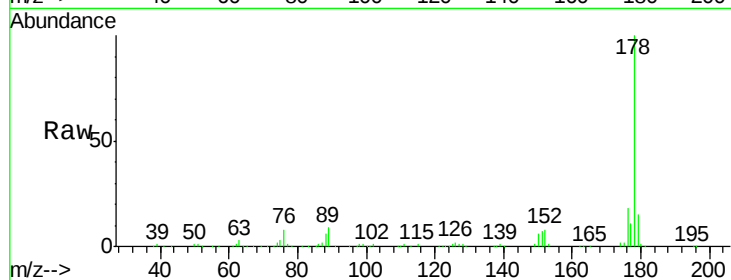
Tot Ion:178 Resp: 169413

Ion Ratio Lower Upper

178 100

176 18.3 15.6 23.4

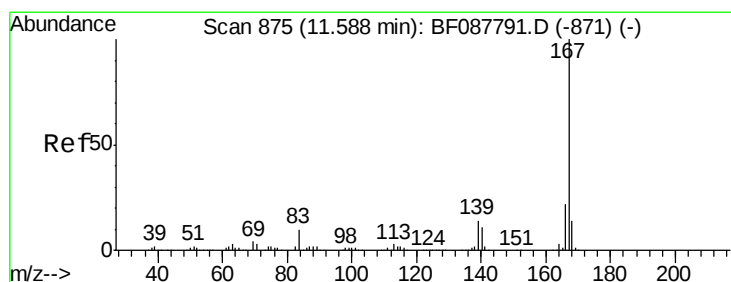
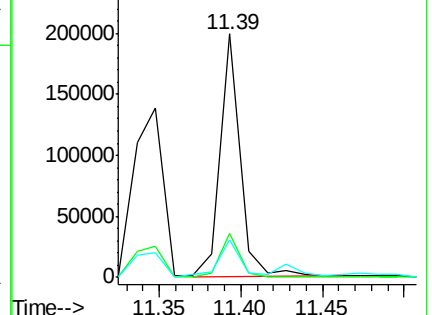
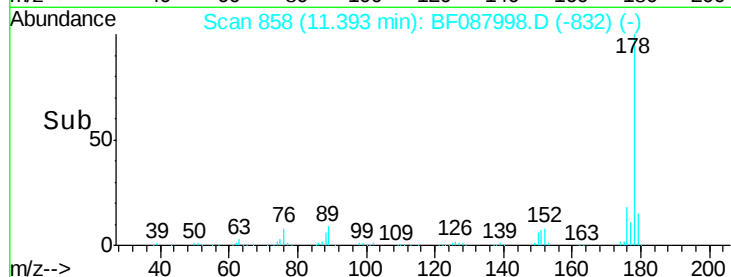
179 15.4 12.8 19.2



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: 2.87 ng

RT: 11.55 min Scan# 872

Delta R.T. -0.00 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

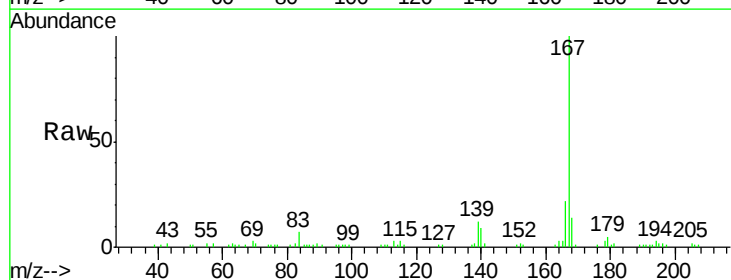
Tgt Ion:167 Resp: 47286

Ion Ratio Lower Upper

167 100

166 21.6 17.8 26.6

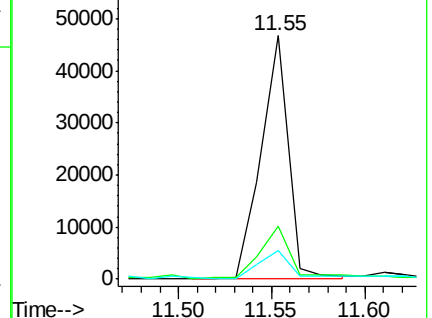
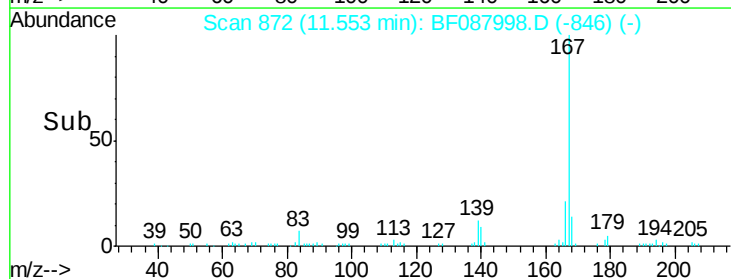
139 12.0 11.2 16.8

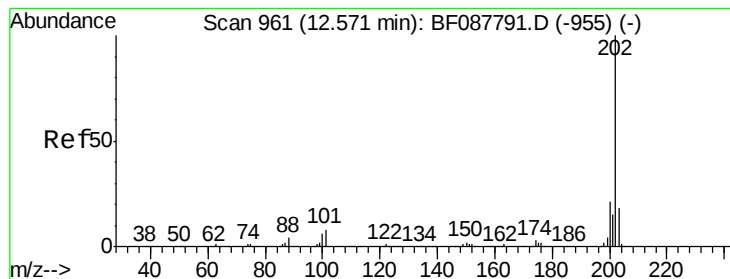


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 43.91 ng

RT: 12.54 min Scan# 958

Delta R.T. 0.01 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

Instrument :

BNA_F

ClientSampleId :

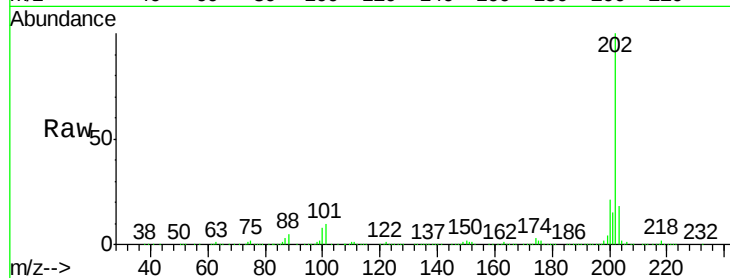
Tot Ion:202 Resp: 809546

Ion Ratio Lower Upper

202 100

101 10.5 0.0 33.1

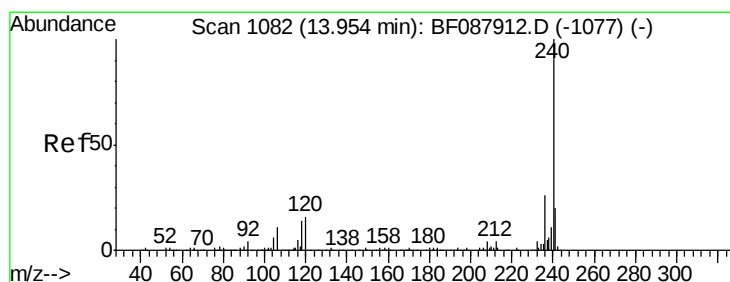
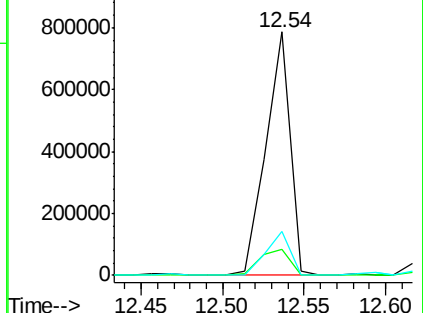
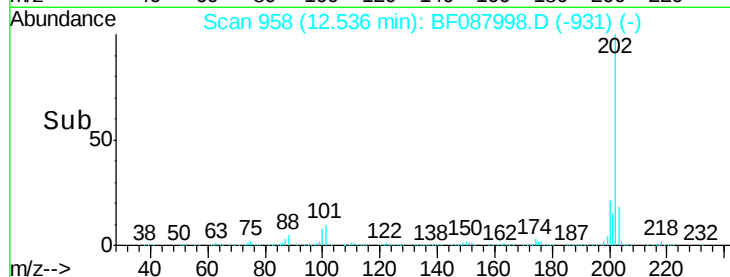
203 18.0 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.95 min Scan# 1082

Delta R.T. -0.00 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

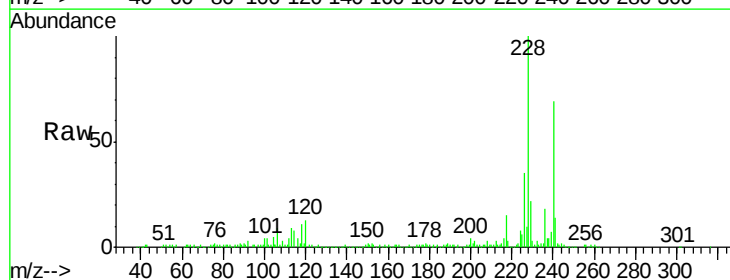
Tgt Ion:240 Resp: 219712

Ion Ratio Lower Upper

240 100

120 18.7 6.8 10.2#

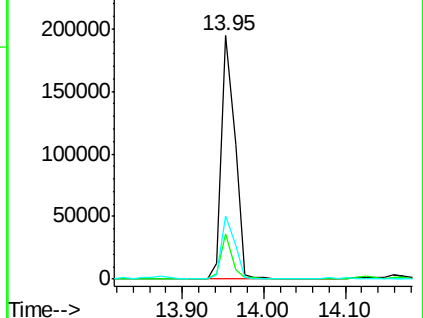
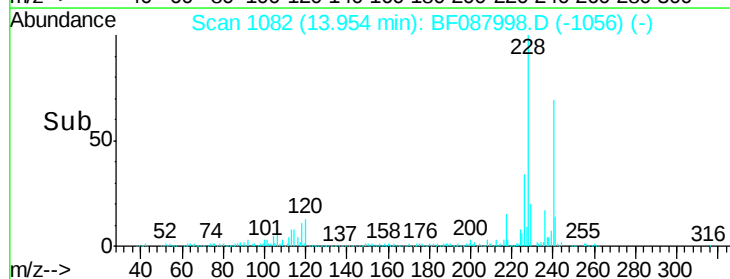
236 25.7 20.2 30.2

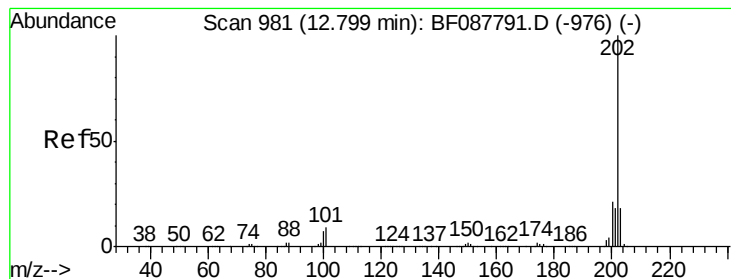


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 47.67 ng

RT: 12.76 min Scan# 978

Delta R.T. 0.01 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

Instrument :

BNA_F

ClientSampled :

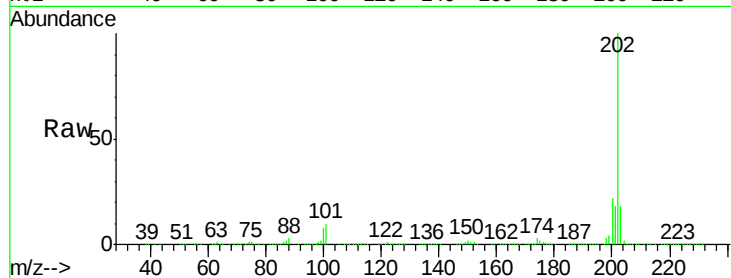
Tot Ion:202 Resp: 777142

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

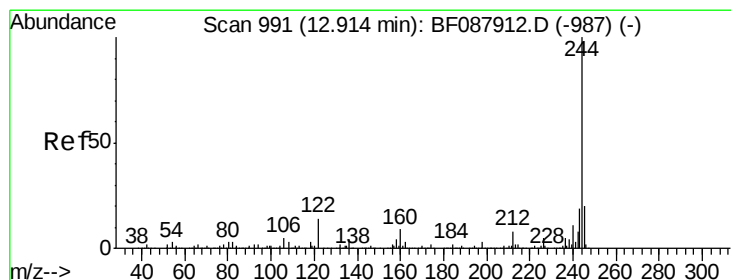
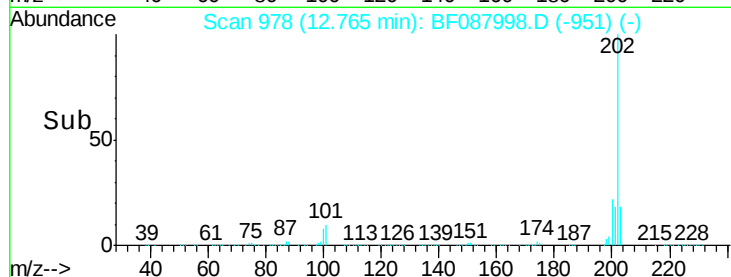
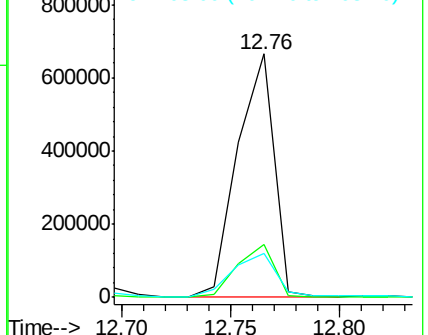
203 18.1 14.5 21.7



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: 20.45 ng

RT: 12.90 min Scan# 990

Delta R.T. -0.00 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

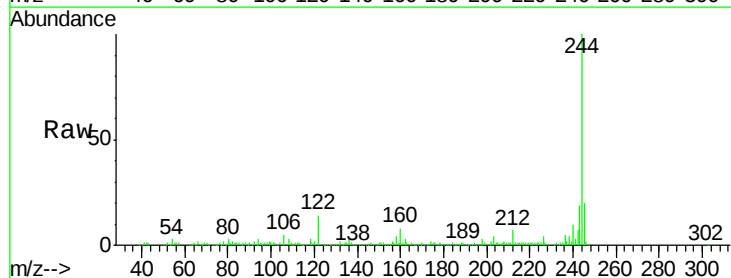
Tgt Ion:244 Resp: 197426

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

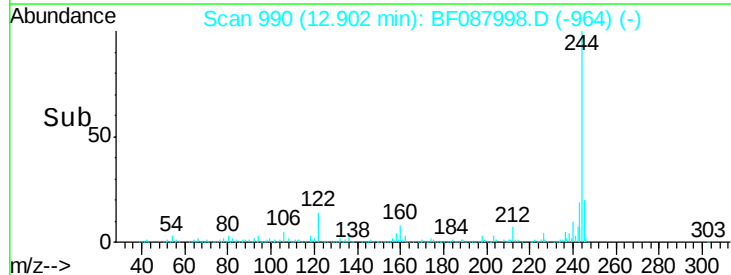
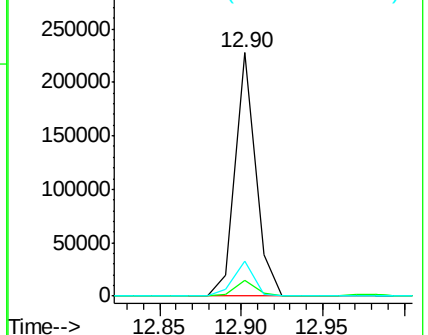
122 14.3 11.2 16.8

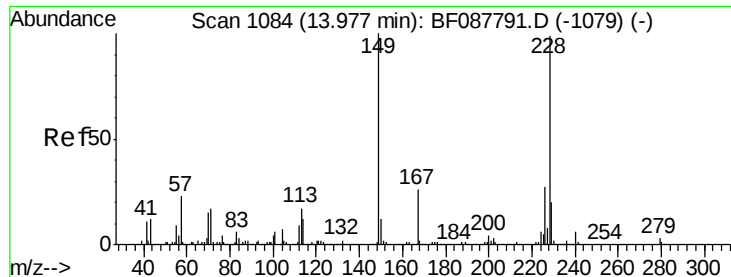


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

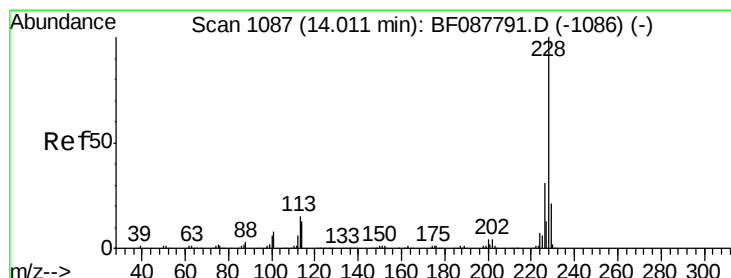
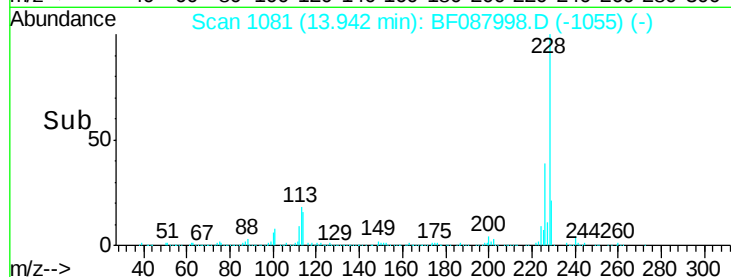
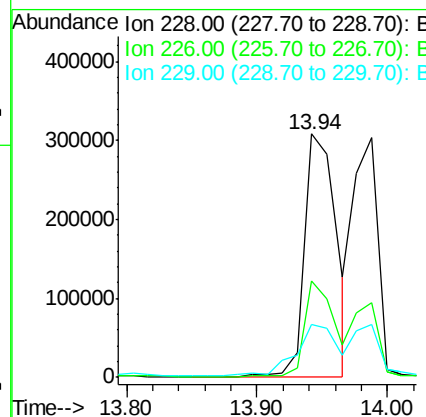
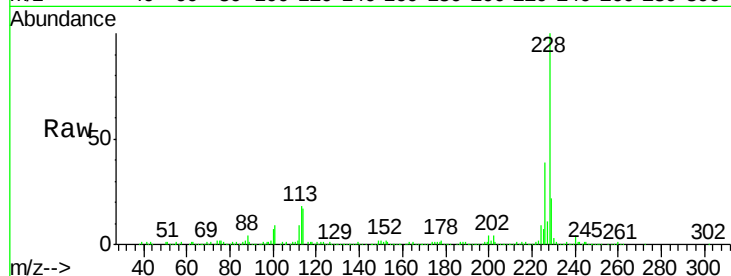




#80
Benzo(a)anthracene
Concen: 41.47 ng
RT: 13.94 min Scan# 1081
Delta R.T. -0.00 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

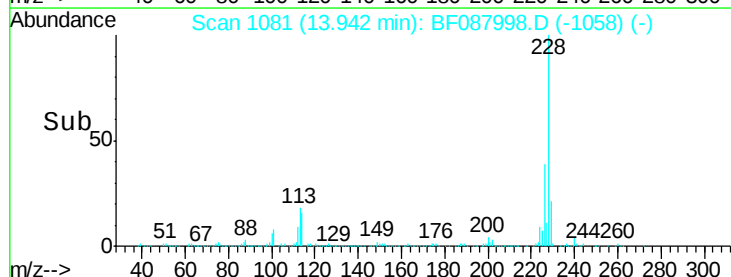
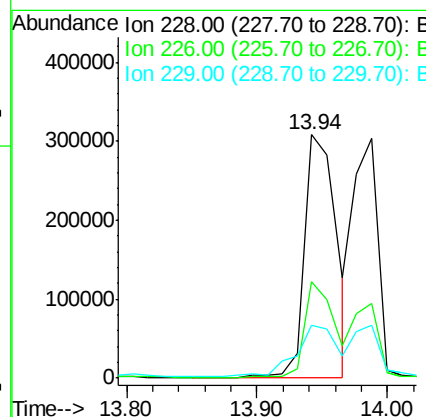
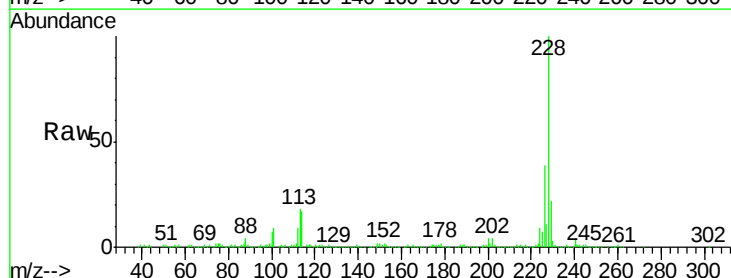
Instrument :
BNA_F
ClientSampleId :

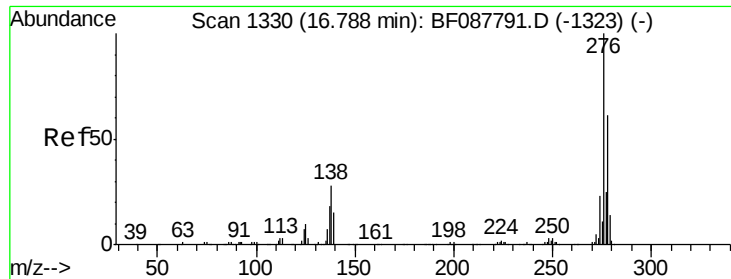
Tot Ion:228 Resp: 519225
Ion Ratio Lower Upper
228 100
226 39.4 22.3 33.5#
229 21.6 16.0 24.0



#82
Chrysene
Concen: 44.08 ng
RT: 13.94 min Scan# 1081
Delta R.T. -0.03 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Tgt Ion:228 Resp: 519225
Ion Ratio Lower Upper
228 100
226 39.4 25.4 38.2#
229 21.6 16.3 24.5

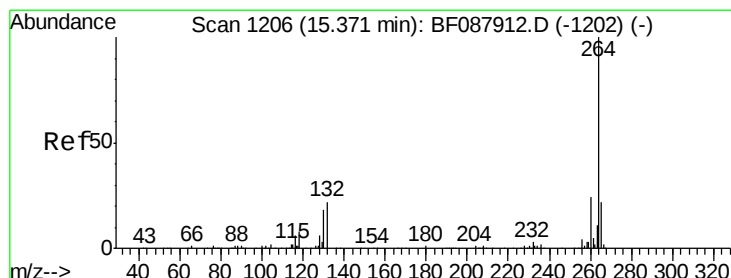
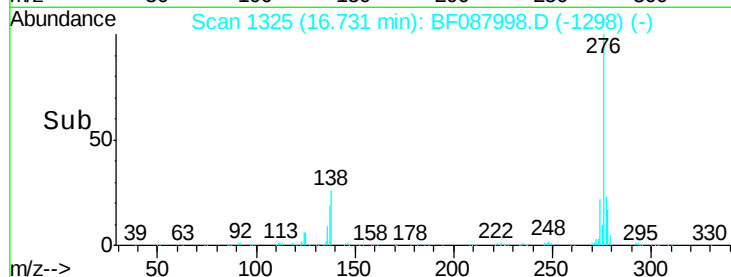
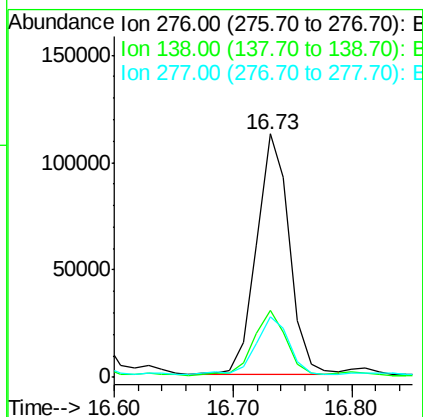
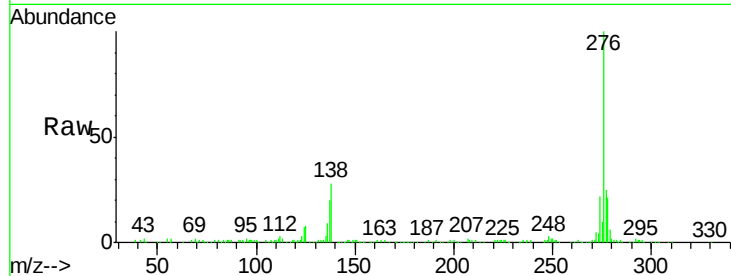




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 19.72 ng
 RT: 16.73 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: BF087998.D
 Acq: 14 Jun 2016 9:44

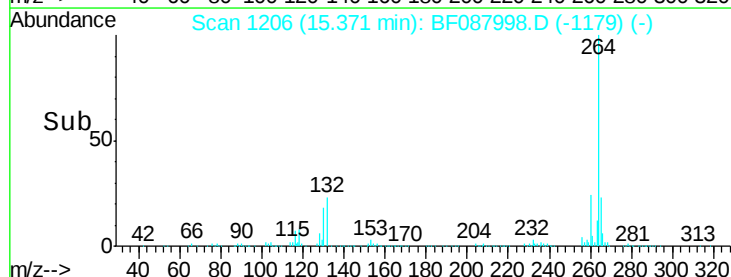
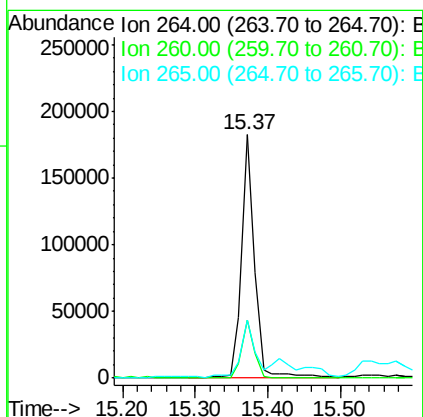
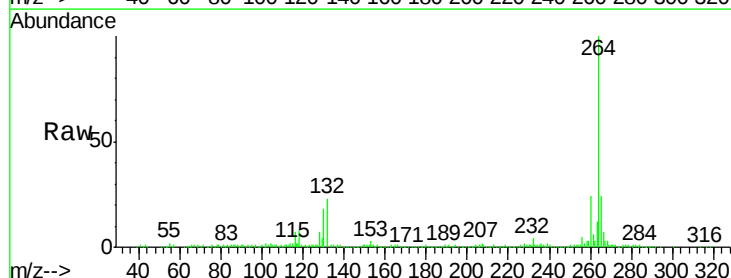
Instrument :
 BNA_F
 ClientSampleId :

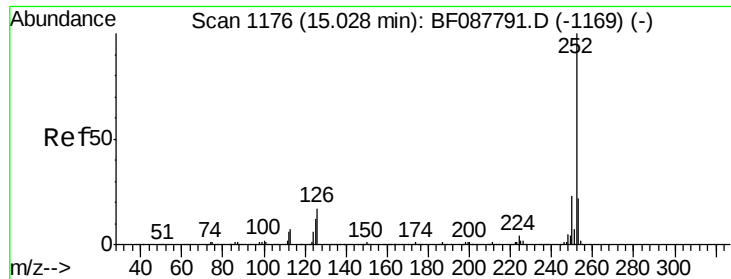
Tot Ion	Ratio	Lower	Upper
276	100		
138	26.5	0.0	0.0#
277	24.3	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.37 min Scan# 1206
 Delta R.T. 0.01 min
 Lab File: BF087998.D
 Acq: 14 Jun 2016 9:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	23.9	16.9	25.3

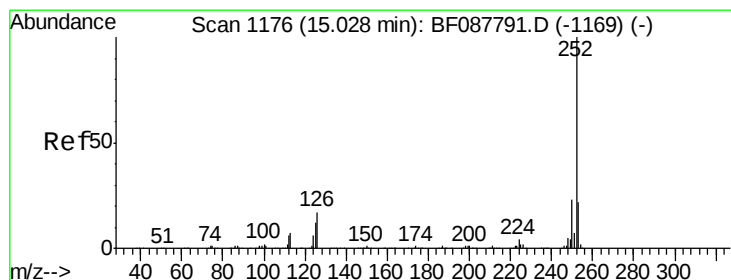
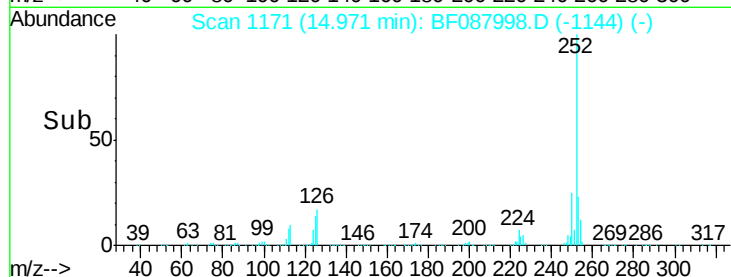
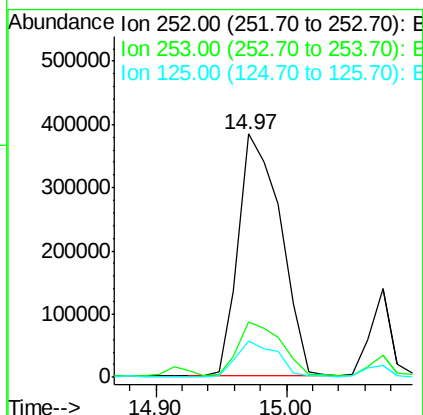
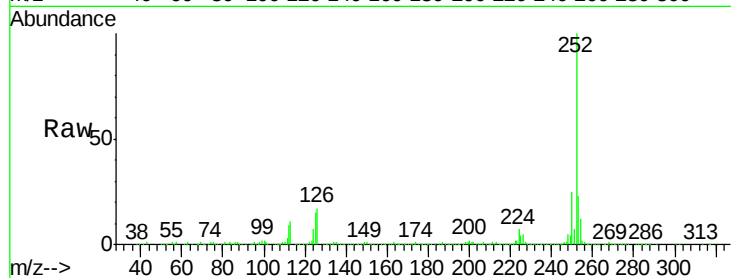




#87
Benzo(b)fluoranthene
Concen: 54.51 ng
RT: 14.97 min Scan# 1171
Delta R.T. 0.01 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

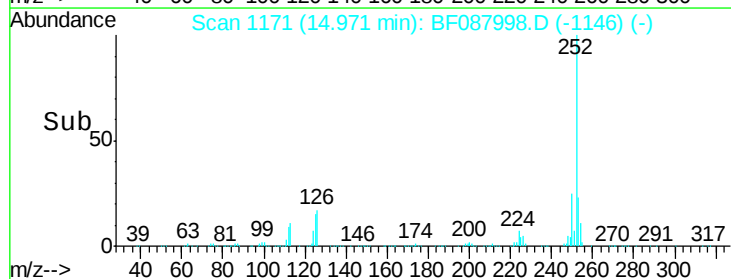
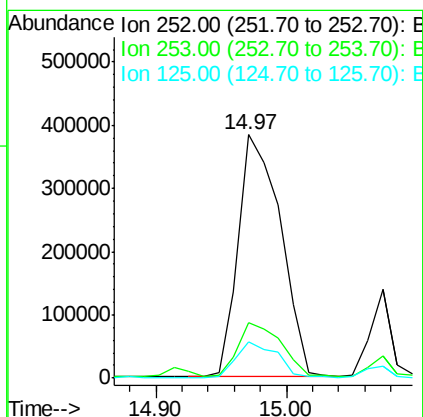
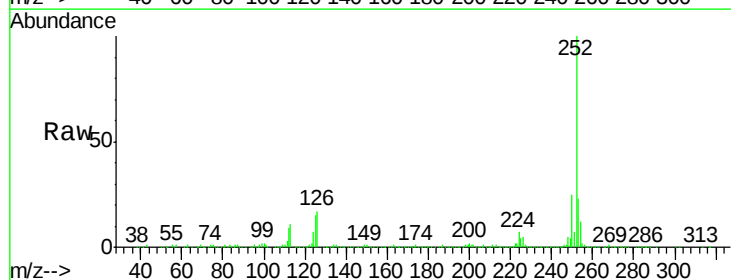
Instrument :
BNA_F
ClientSampleId :

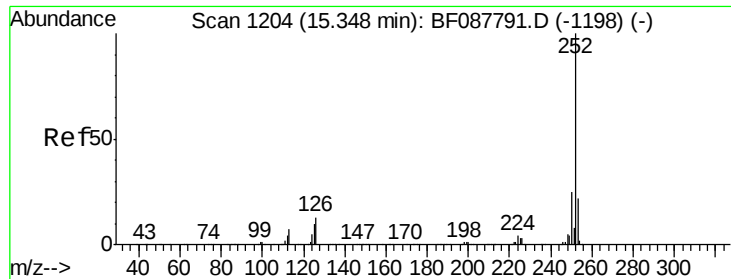
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.2
125	14.8	7.1	10.7



#88
Benzo(k)fluoranthene
Concen: 72.26 ng
RT: 14.97 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	14.8	11.2	16.8

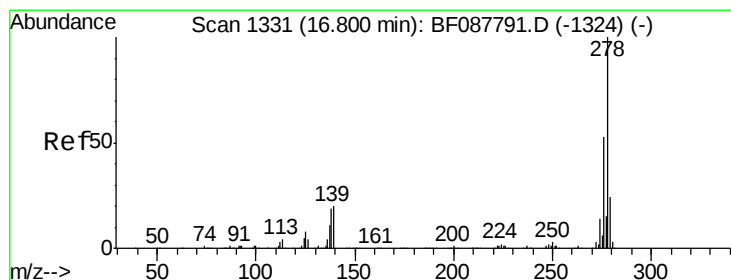
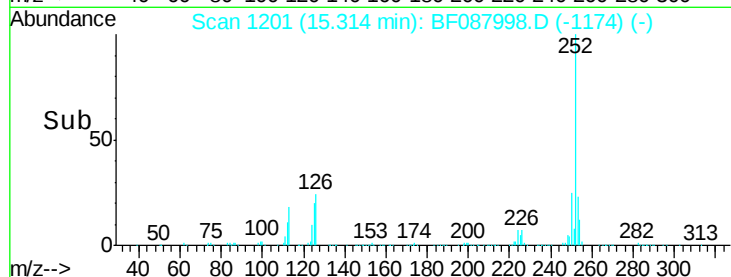
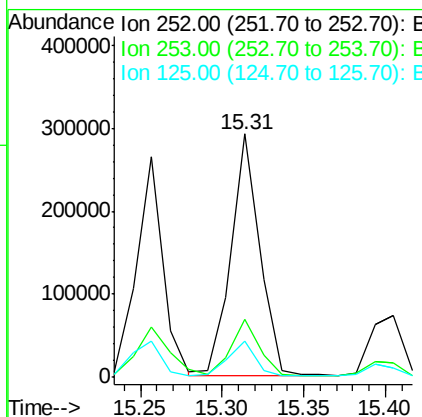
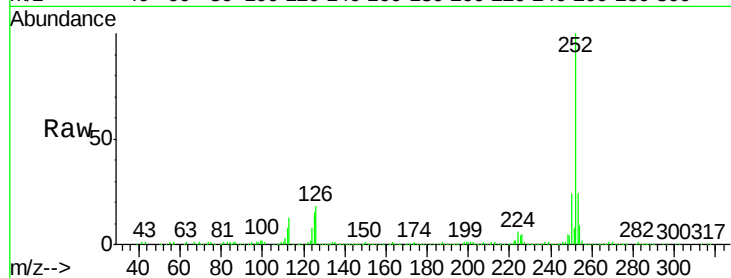




#89
Benzo(a)pyrene
Concen: 27.65 ng
RT: 15.31 min Scan# 1201
Delta R.T. 0.01 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

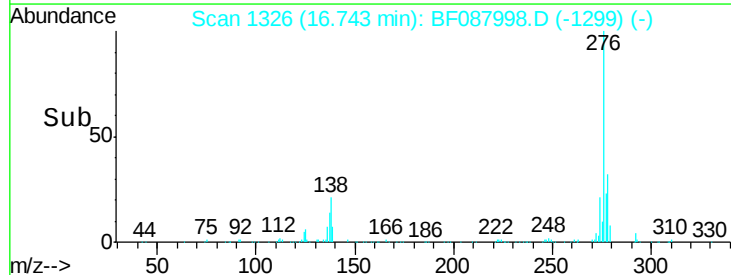
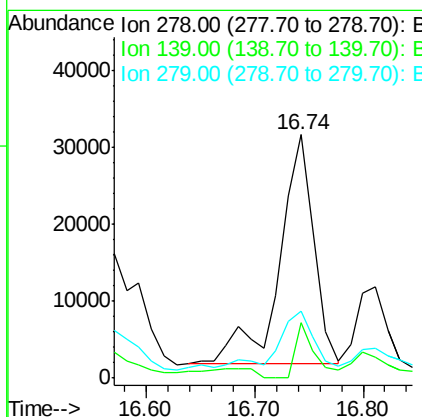
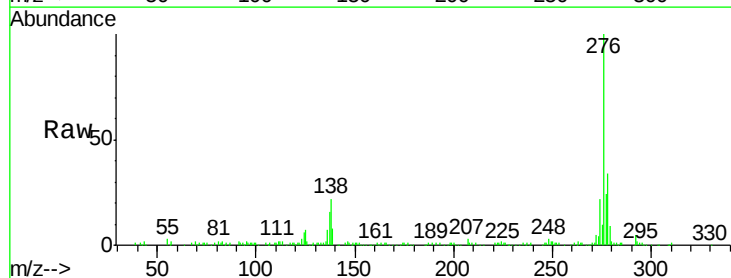
Instrument :
BNA_F
ClientSampleId :

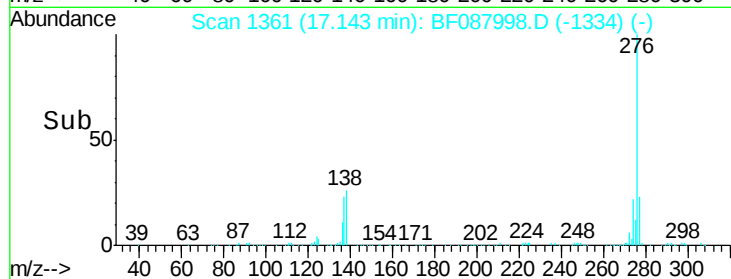
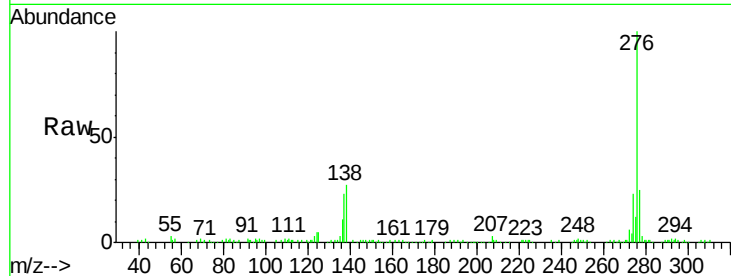
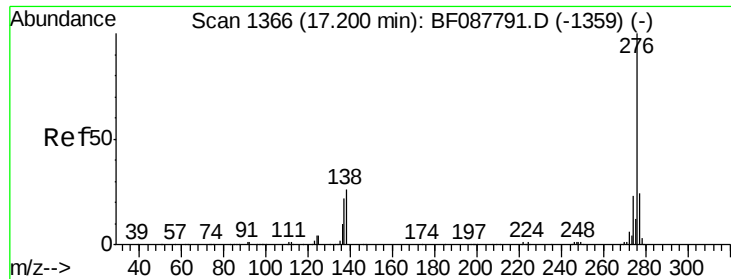
Tot Ion:252 Resp: 352553
Ion Ratio Lower Upper
252 100
253 23.8 17.9 26.9
125 14.7 12.5 18.7



#90
Dibenzo(a,h)anthracene
Concen: 5.49 ng
RT: 16.74 min Scan# 1326
Delta R.T. 0.01 min
Lab File: BF087998.D
Acq: 14 Jun 2016 9:44

Tgt Ion:278 Resp: 64962
Ion Ratio Lower Upper
278 100
139 22.6 15.7 23.5
279 27.6 19.4 29.2





#91

Benzo(a,h,i)perylene

Concen: 14.82 ng

RT: 17.14 min Scan# 1361

Delta R.T. 0.01 min

Lab File: BF087998.D

Acq: 14 Jun 2016 9:44

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 180584

Ion Ratio Lower Upper

276 100

277 24.5 18.9 28.3

138 27.0 21.4 32.2

