

Data Path : Z:\HPCHEM1\BNA_F\Data\BF051716\
 Data File : BF087141.D
 Acq On : 18 May 2016 9:59
 Operator : UM/SJ
 Sample : H2977-06RE
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 90TH-AVE-SB-11-0.5-6.0RE

Quant Time: May 18 13:38:00 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	201881	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	826126	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	339344	20.00	ng	-0.01
63) Phenanthrene-d10	11.11	188	478249	20.00	ng	-0.01
75) Chrysene-d12	13.75	240	416779	20.00	ng	-0.01
86) Perylene-d12	15.10	264	306111	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.20	112	1534665	127.77	ng	0.00
7) Phenol-d6	6.27	99	1805697	112.09	ng	-0.01
23) Nitrobenzene-d5	7.18	82	1311251	79.10	ng	-0.01
41) 2,4,6-Tribromophenol	10.42	330	337897	90.11	ng	-0.02
44) 2-Fluorobiphenyl	8.97	172	1773981	86.58	ng	-0.01
78) Terphenyl-d14	12.70	244	1056158	57.32	ng	-0.01

Target Compounds

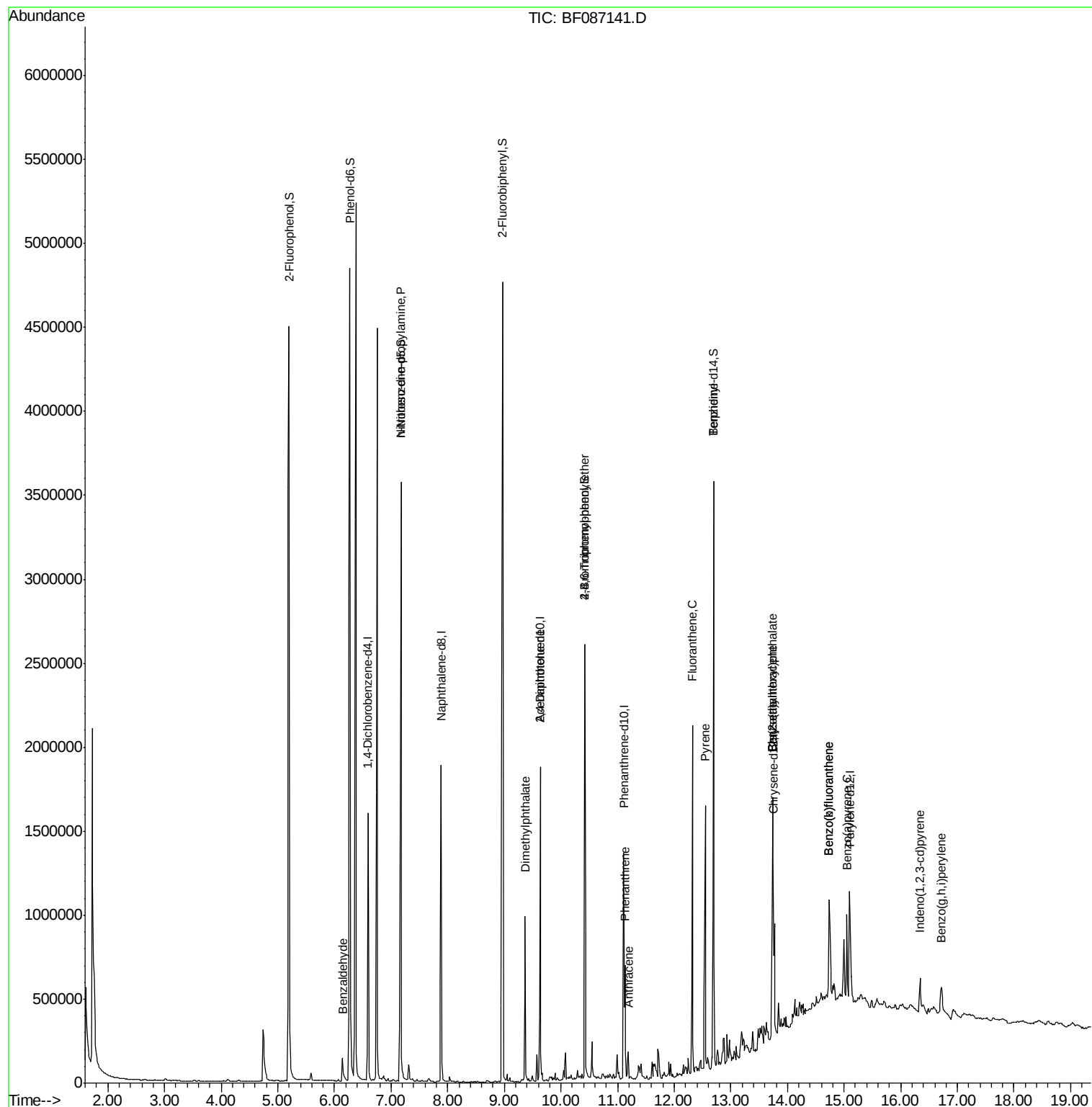
						Qvalue
9) Benzaldehyde	6.15	77	53570	4.69	ng	94
19) n-Nitroso-di-n-propylamine	7.18	70	190419	15.55	ng	# 77
49) Dimethylphthalate	9.37	163	467920	18.08	ng	99
56) 2,4-Dinitrotoluene	9.63	165	43834	6.09	ng	# 16
66) 4-Bromophenyl-phenylether	10.42	248	18483	3.76	ng	# 1
70) Phenanthrene	11.13	178	238322	9.19	ng	99
71) Anthracene	11.19	178	66969	2.55	ng	98
74) Fluoranthene	12.32	202	769980	29.63	ng	96
76) Benzidine	12.70	184	17355	2.07	ng	97
77) Pyrene	12.55	202	715155	23.75	ng	99
80) Benzo(a)anthracene	13.74	228	356287	14.78	ng	98
82) Chrysene	13.74	228	356287	15.28	ng	98
83) Bis(2-ethylhexyl)phthalate	13.74	149	37880	2.45	ng	# 94
85) Indeno(1,2,3-cd)pyrene	16.34	276	129390	6.32	ng	# 89
87) Benzo(b)fluoranthene	14.73	252	475546	23.42	ng	99
88) Benzo(k)fluoranthene	14.73	252	475546	31.45	ng	# 97
89) Benzo(a)pyrene	15.05	252	236613	13.94	ng	97
91) Benzo(g,h,i)perylene	16.72	276	113450	7.86	ng	# 90

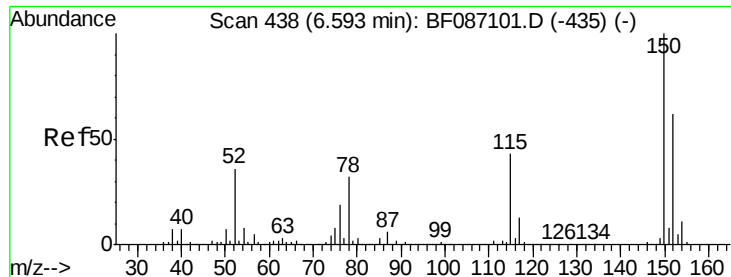
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

Instrument :

BNA_F

ClientSampleId :

90TH-AVE-SB-11-0.5-6.0RE

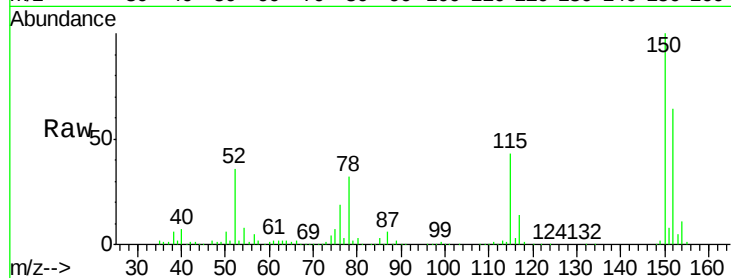
Tgt Ion:152 Resp: 201881

Ion Ratio Lower Upper

152 100

150 155.6 125.8 188.6

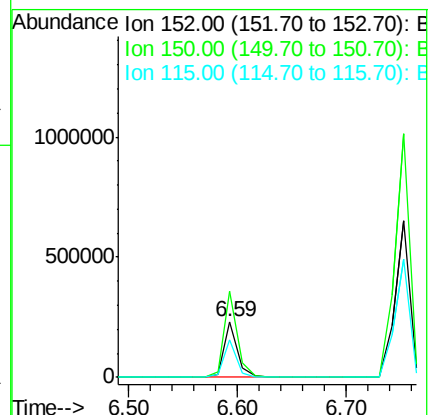
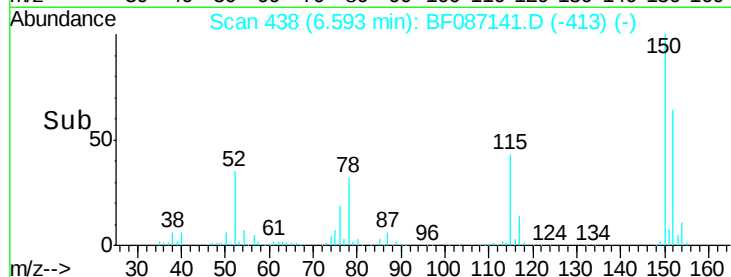
115 67.4 51.5 77.3



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: 127.77 ng

RT: 5.20 min Scan# 316

Delta R.T. 0.00 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

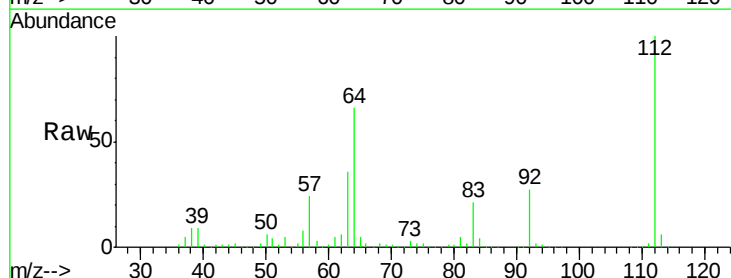
Tgt Ion:112 Resp: 1534665

Ion Ratio Lower Upper

112 100

64 66.2 52.1 78.1

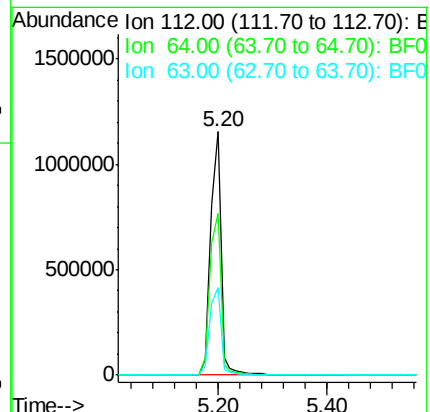
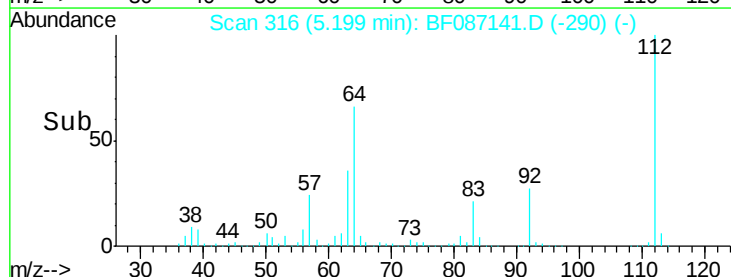
63 36.0 25.7 38.5



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: 112.09 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

Instrument :

BNA_F

ClientSampleId :

90TH-AVE-SB-11-0.5-6.0RE

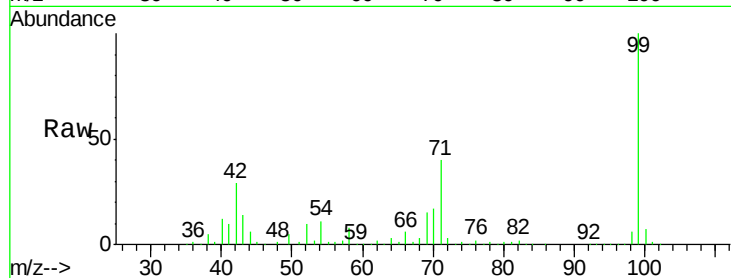
Tgt Ion: 99 Resp: 1805697

Ion Ratio Lower Upper

99 100

42 28.5 13.6 20.4#

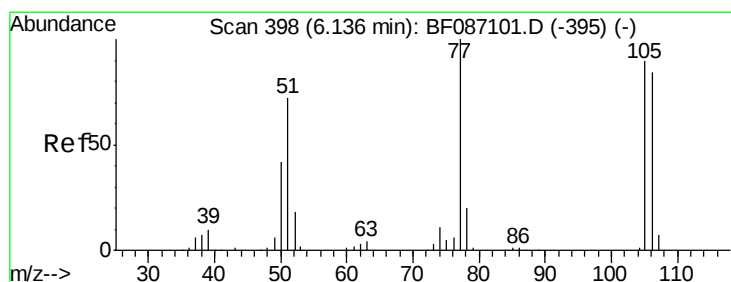
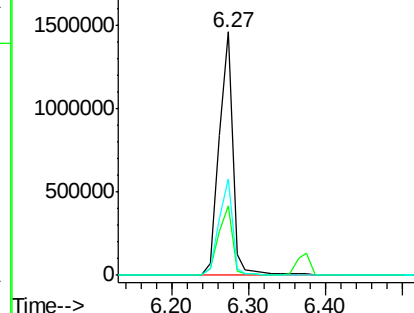
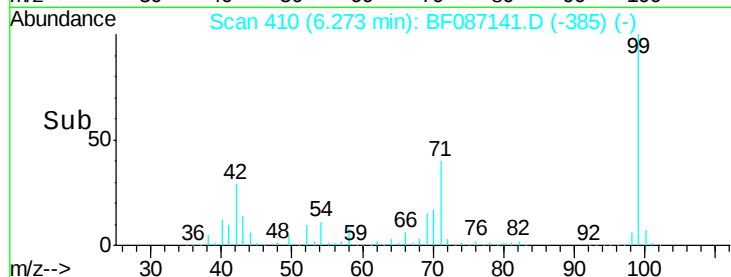
71 39.5 24.6 36.8#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 4.69 ng

RT: 6.15 min Scan# 399

Delta R.T. 0.00 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

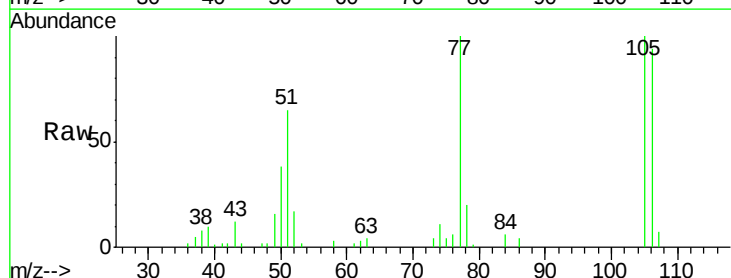
Tgt Ion: 77 Resp: 53570

Ion Ratio Lower Upper

77 100

105 99.9 72.7 112.7

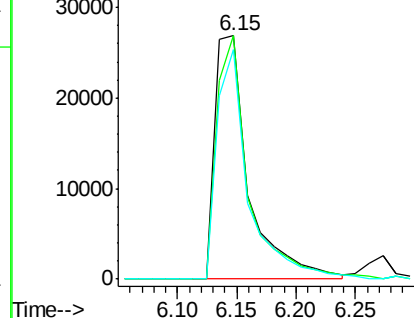
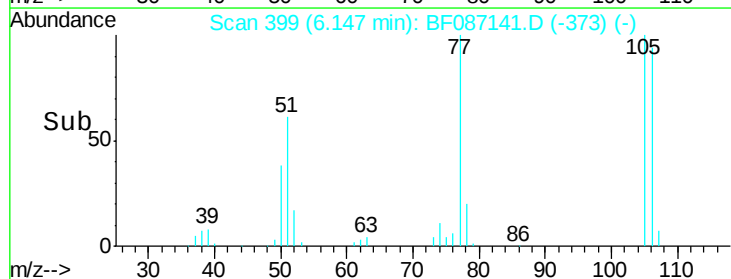
106 94.1 70.8 110.8

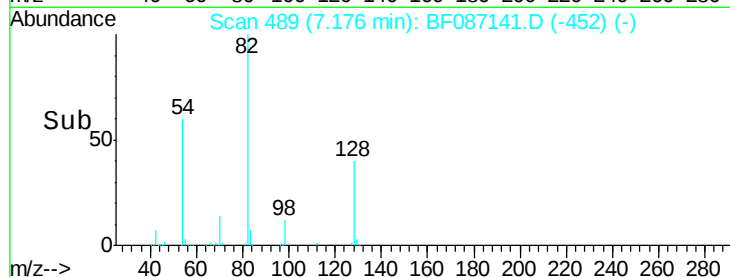
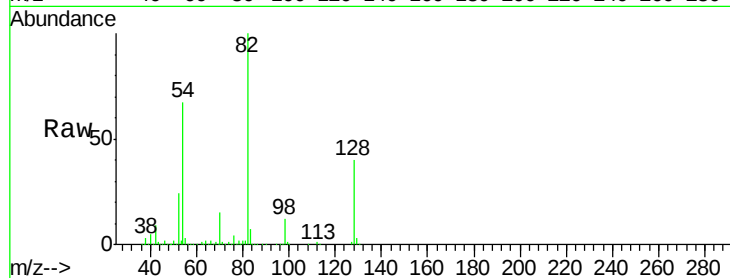
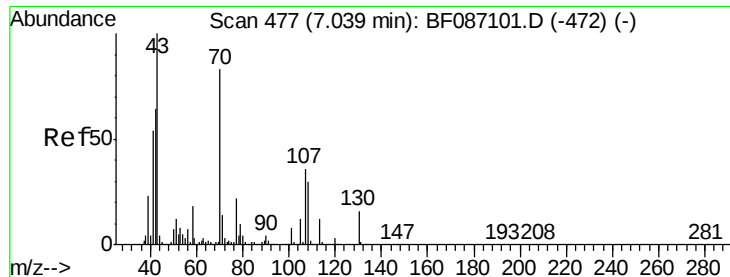


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

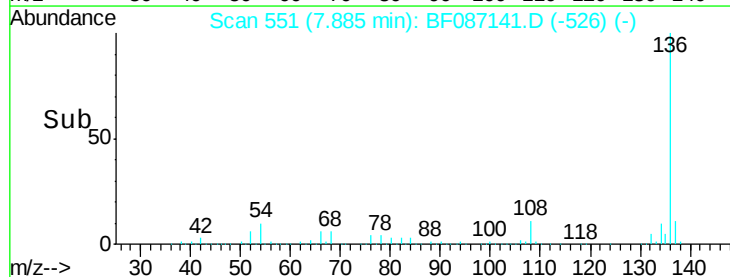
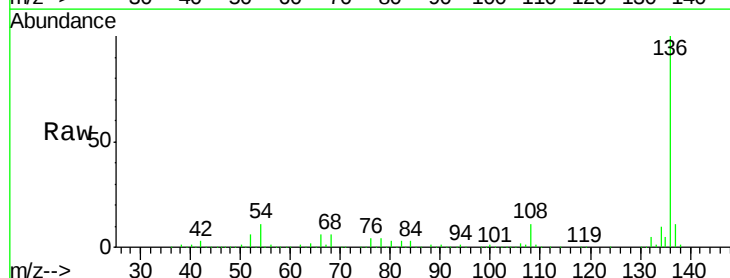
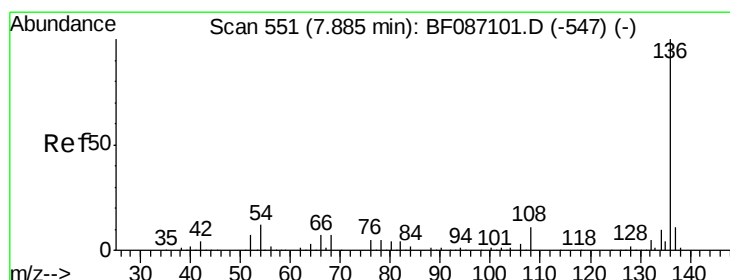
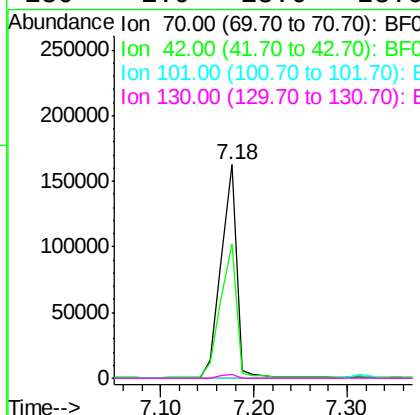




#19
n-Nitroso-di-n-propylamine
Concen: 15.55 ng
RT: 7.18 min Scan# 489
Delta R.T. 0.13 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

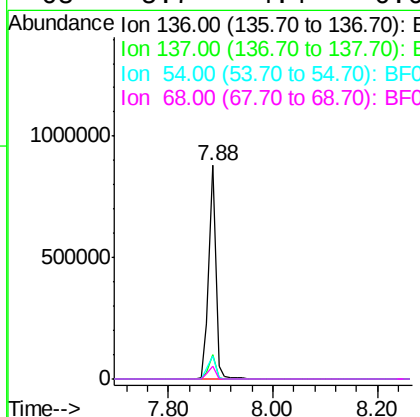
Instrument :
BNA_F
ClientSampleId :
90TH-AVE-SB-11-0.5-6.0RE

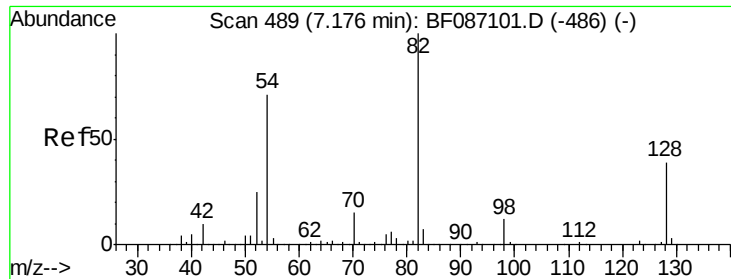
Tgt Ion:	70	Resp:	190419
Ion Ratio	Lower	Upper	
70	100		
42	63.0	43.1	64.7
101	0.0	8.1	12.1#
130	1.9	18.6	28.0#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.88 min Scan# 551
Delta R.T. -0.01 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

Tgt Ion:	136	Resp:	826126
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.8	13.2
54	10.5	5.0	7.4#
68	5.7	4.4	6.6

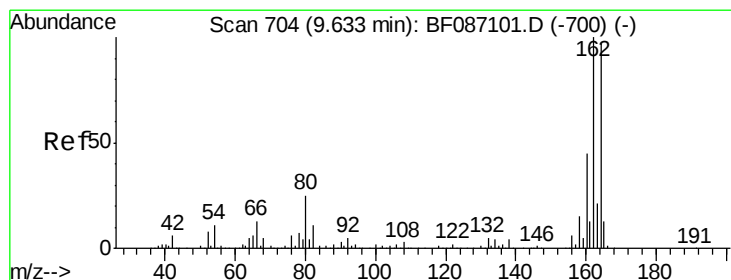
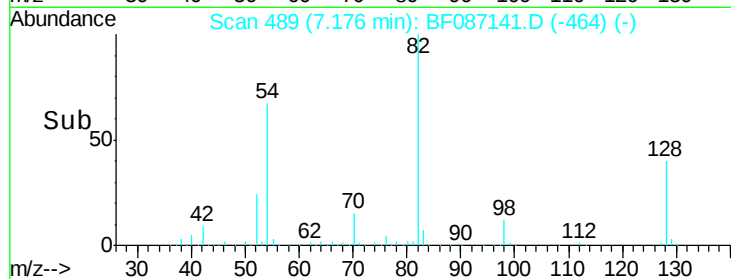
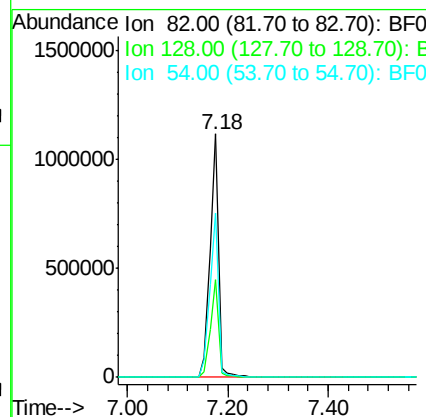
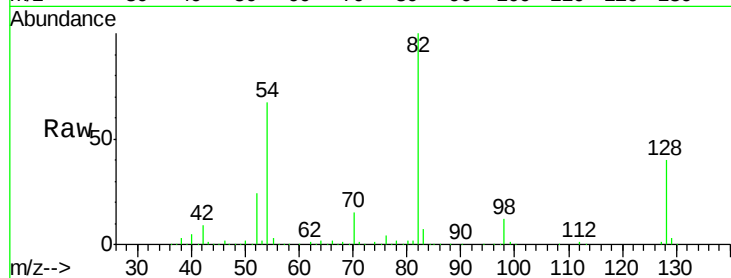




#23
 Nitrobenzene-d5
 Concen: 79.10 ng
 RT: 7.18 min Scan# 489
 Delta R.T. -0.01 min
 Lab File: BF087141.D
 Acq: 18 May 2016 9:59

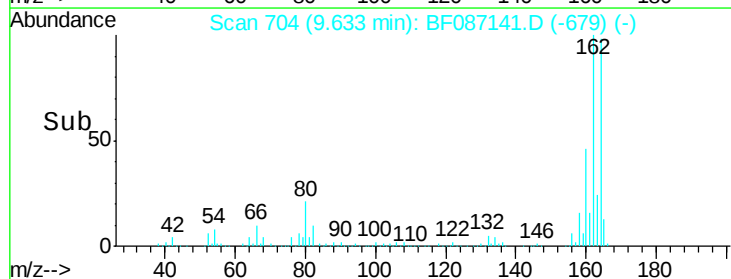
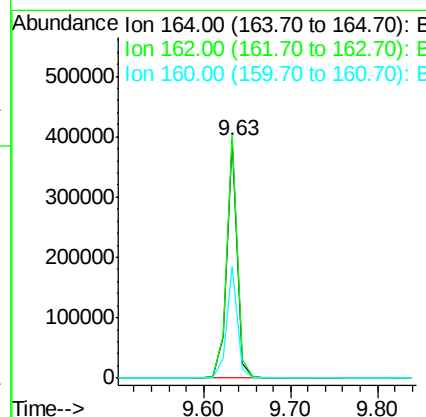
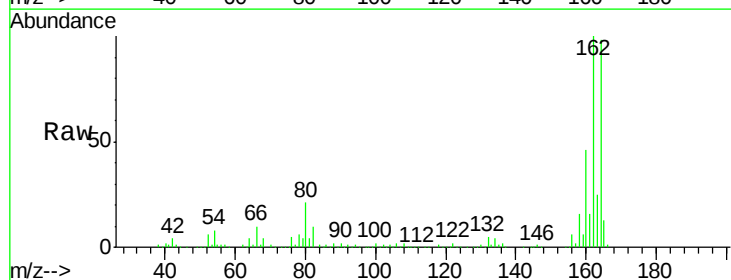
Instrument :
 BNA_F
 ClientSampleId :
 90TH-AVE-SB-11-0.5-6.0RE

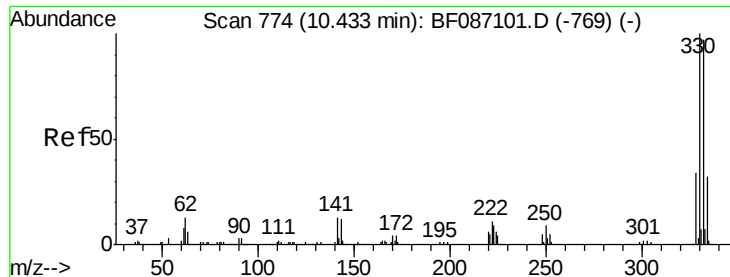
Tgt Ion: 82 Resp: 1311251
 Ion Ratio Lower Upper
 82 100
 128 40.0 40.6 61.0#
 54 67.3 38.1 57.1#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.63 min Scan# 704
 Delta R.T. -0.01 min
 Lab File: BF087141.D
 Acq: 18 May 2016 9:59

Tgt Ion: 164 Resp: 339344
 Ion Ratio Lower Upper
 164 100
 162 102.1 82.8 124.2
 160 46.9 36.9 55.3

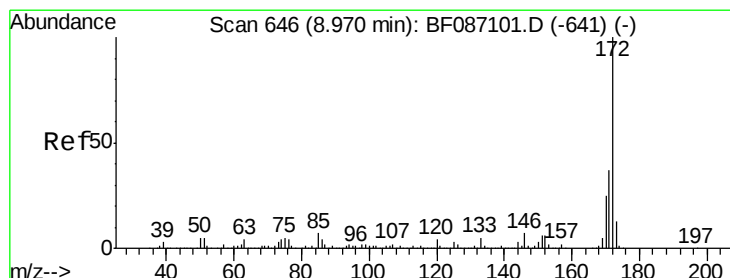
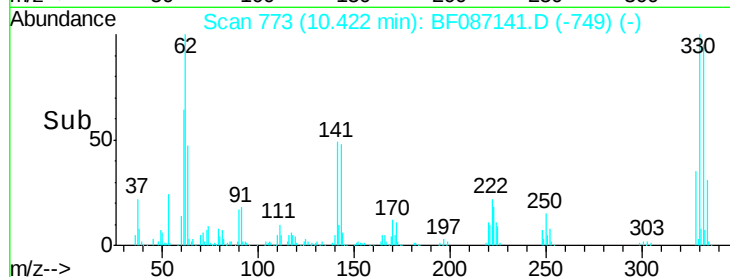
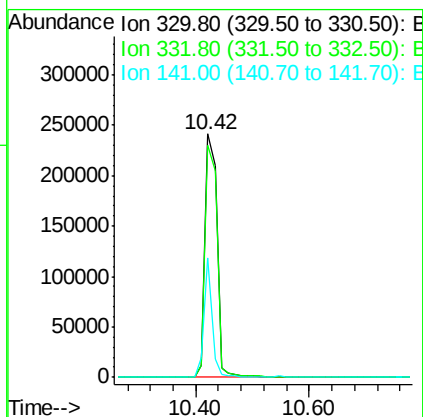
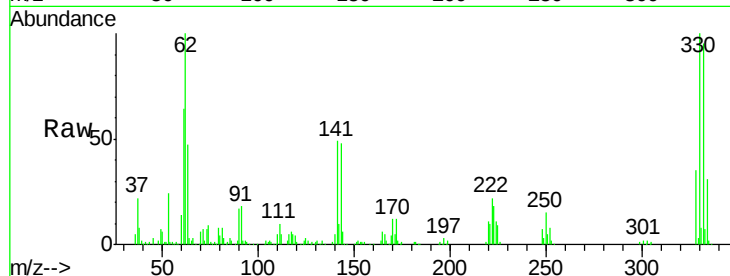




#41
 2,4,6-Tribromophenol
 Concen: 90.11 ng
 RT: 10.42 min Scan# 773
 Delta R.T. -0.02 min
 Lab File: BF087141.D
 Acq: 18 May 2016 9:59

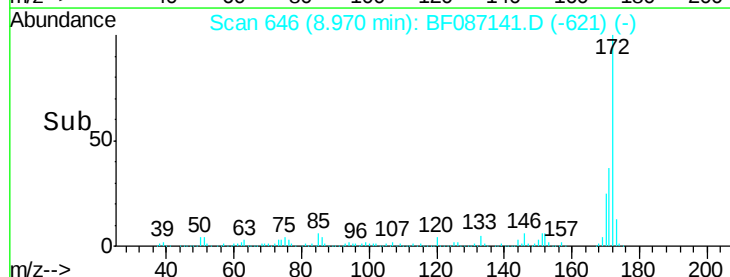
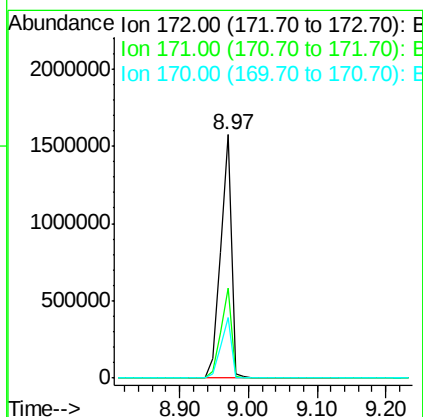
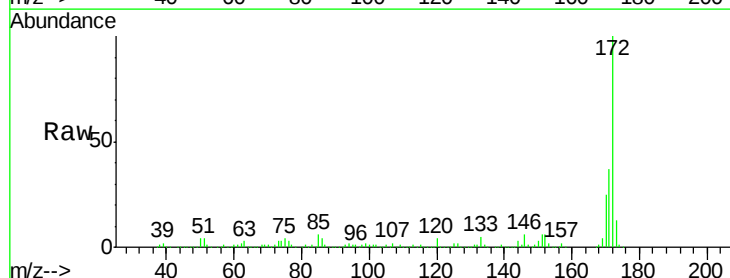
Instrument :
 BNA_F
 ClientSampleId :
 90TH-AVE-SB-11-0.5-6.0RE

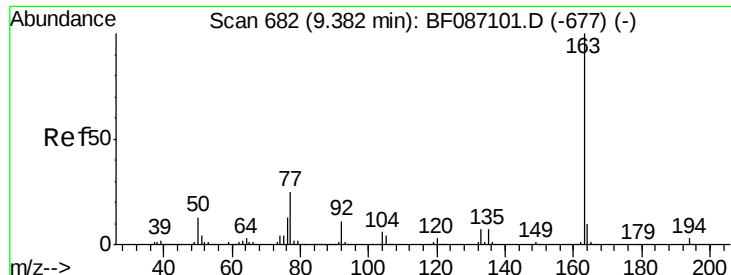
Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.1	79.0	118.4
141	33.5	31.2	46.8



#44
 2-Fluorobiphenyl
 Concen: 86.58 ng
 RT: 8.97 min Scan# 646
 Delta R.T. -0.01 min
 Lab File: BF087141.D
 Acq: 18 May 2016 9:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.0	43.6
170	24.9	19.8	29.8

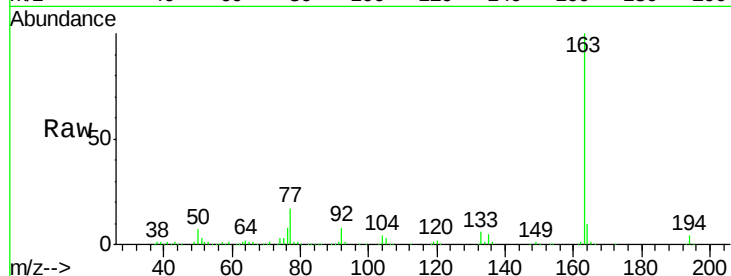




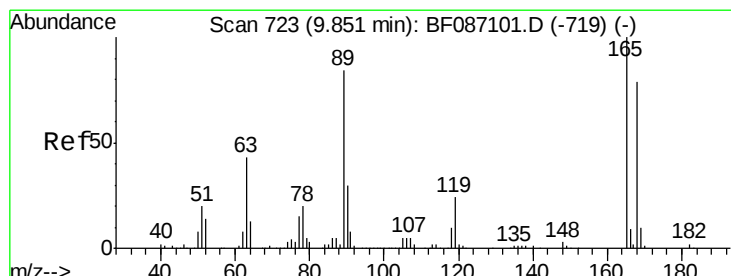
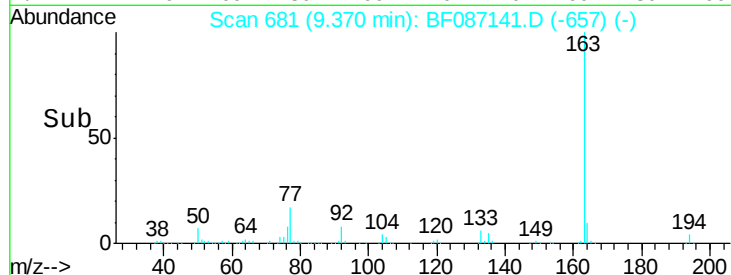
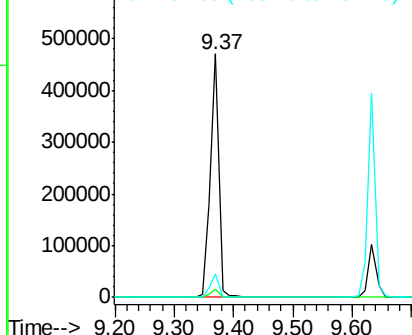
#49
Dimethylphthalate
Concen: 18.08 ng
RT: 9.37 min Scan# 681
Delta R.T. -0.02 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

Instrument :
BNA_F
ClientSampleId :
90TH-AVE-SB-11-0.5-6.0RE

Tgt Ion:163 Resp: 467920
Ion Ratio Lower Upper
163 100
194 3.5 2.6 4.0
164 9.8 8.2 12.4

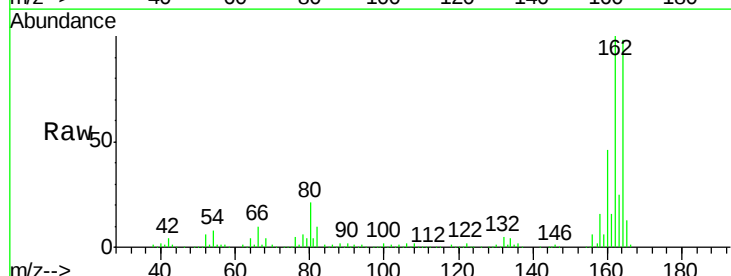


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

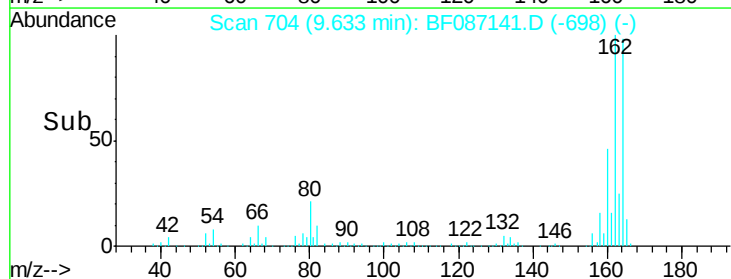
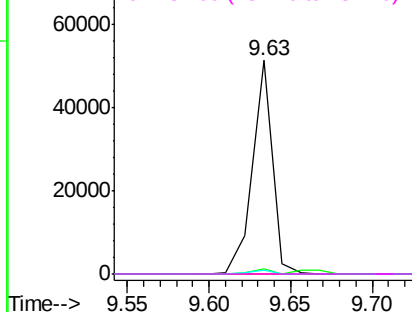


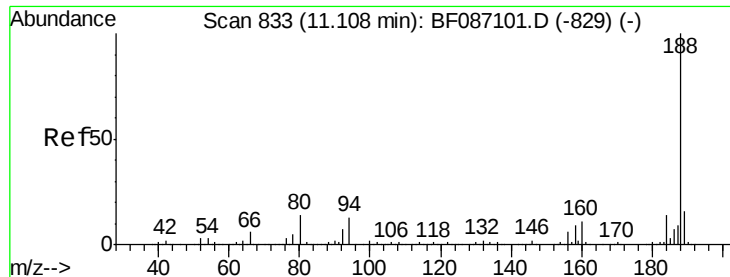
#56
2,4-Dinitrotoluene
Concen: 6.09 ng
RT: 9.63 min Scan# 704
Delta R.T. -0.23 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

Tgt Ion:165 Resp: 43834
Ion Ratio Lower Upper
165 100
63 2.1 44.3 66.5#
89 1.8 70.0 105.0#
182 0.0 1.8 2.6#



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
Ion 182.00 (181.70 to 182.70): E

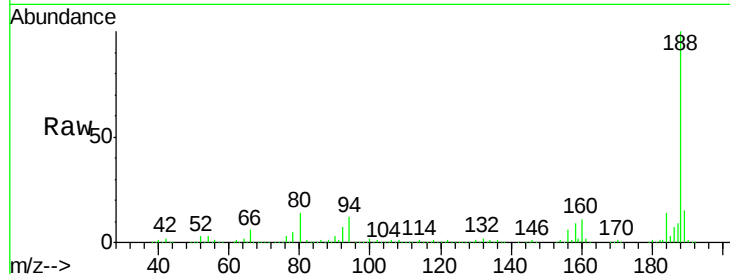




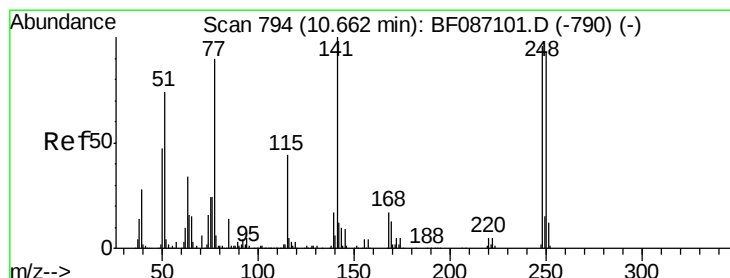
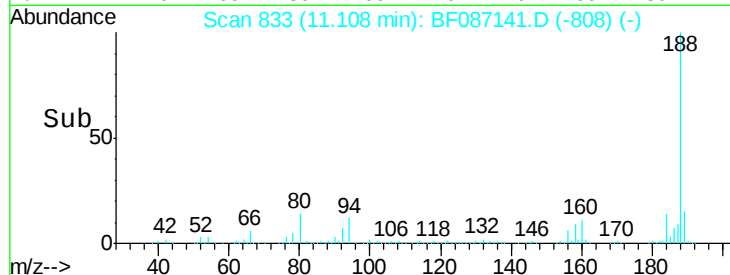
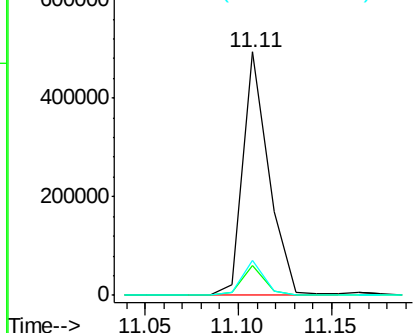
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.11 min Scan# 833
Delta R.T. -0.01 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

Instrument :
BNA_F
ClientSampleId :
90TH-AVE-SB-11-0.5-6.0RE

Tgt Ion:188 Resp: 478249
Ion Ratio Lower Upper
188 100
94 12.4 6.8 10.2#
80 14.2 7.1 10.7#

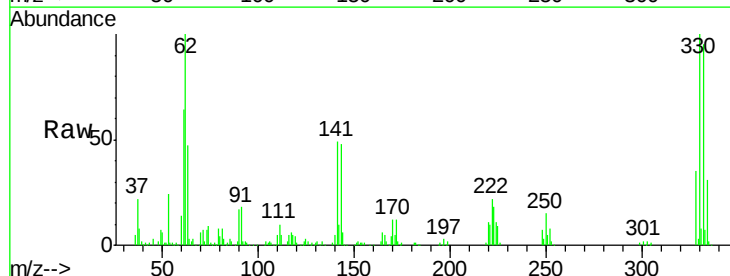


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

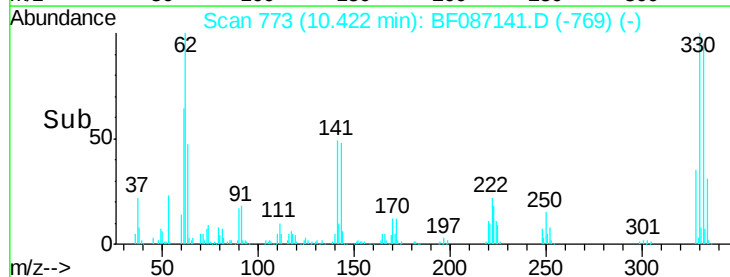
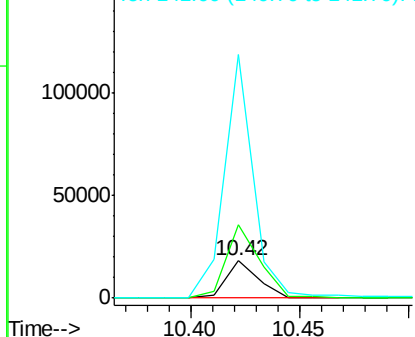


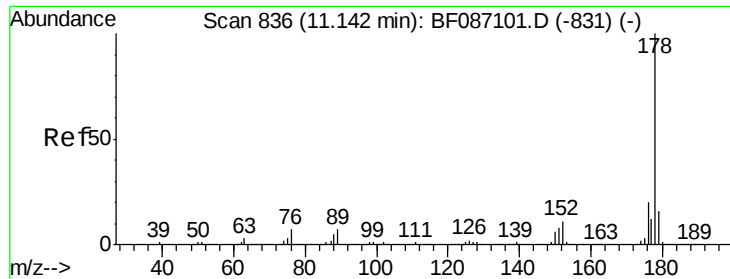
#66
4-Bromophenyl-phenylether
Concen: 3.76 ng
RT: 10.42 min Scan# 773
Delta R.T. -0.25 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

Tgt Ion:248 Resp: 18483
Ion Ratio Lower Upper
248 100
250 198.4 78.6 117.8#
141 658.3 76.0 114.0#



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

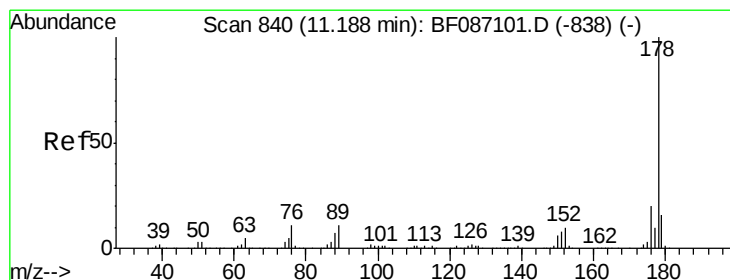
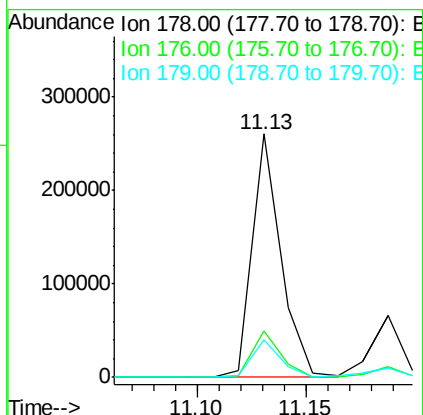
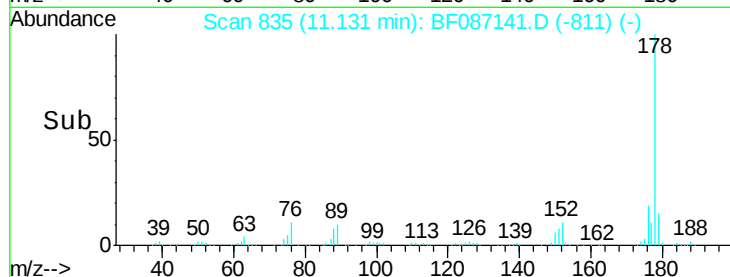
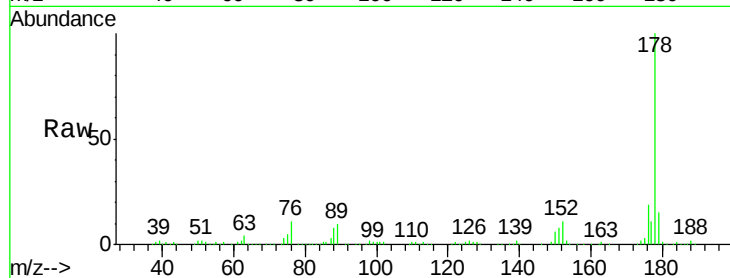




#70
Phenanthrene
Concen: 9.19 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.02 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

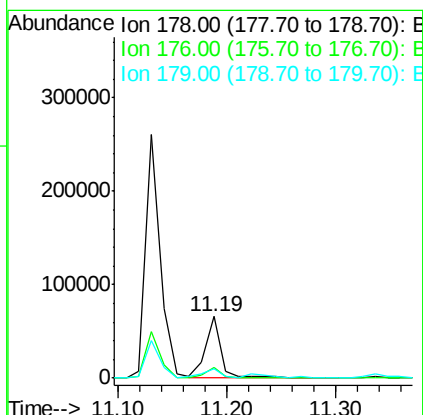
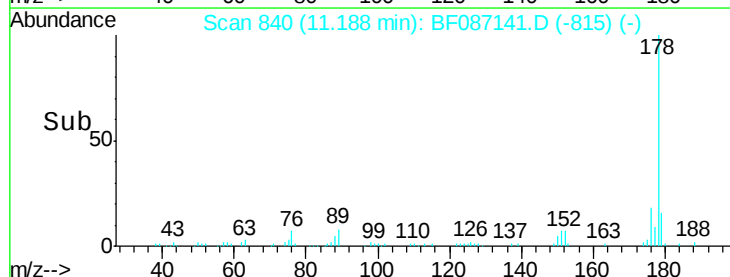
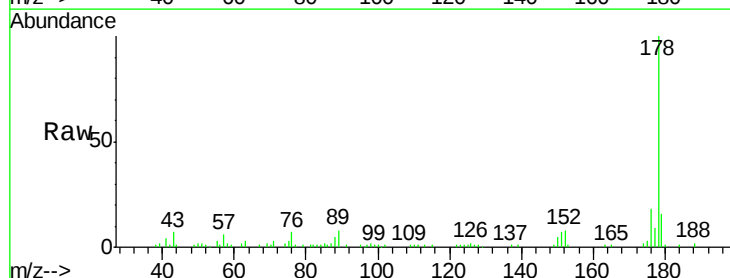
Instrument :
BNA_F
ClientSampleId :
90TH-AVE-SB-11-0.5-6.0RE

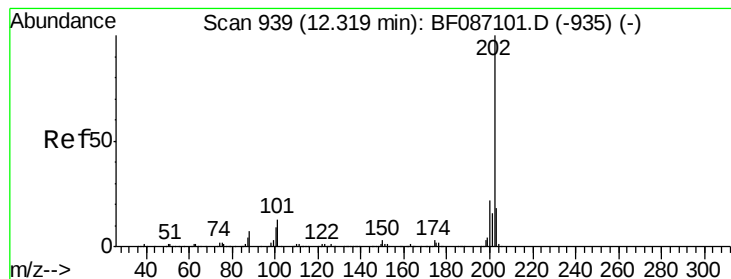
Tgt Ion:178 Resp: 238322
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 15.3 12.6 18.8



#71
Anthracene
Concen: 2.55 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.01 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

Tgt Ion:178 Resp: 66969
Ion Ratio Lower Upper
178 100
176 18.0 15.6 23.4
179 15.6 12.7 19.1





#74

Fluoranthene

Concen: 29.63 ng

RT: 12.32 min Scan# 939

Delta R.T. -0.01 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

Instrument :

BNA_F

ClientSampleId :

90TH-AVE-SB-11-0.5-6.0RE

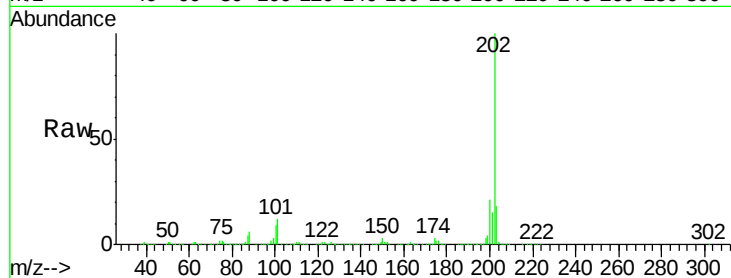
Tgt Ion:202 Resp: 769980

Ion Ratio Lower Upper

202 100

101 12.1 0.0 35.4

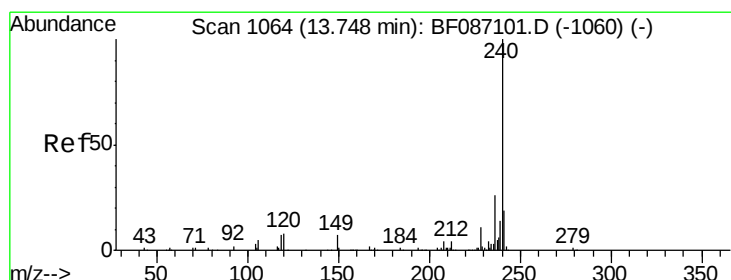
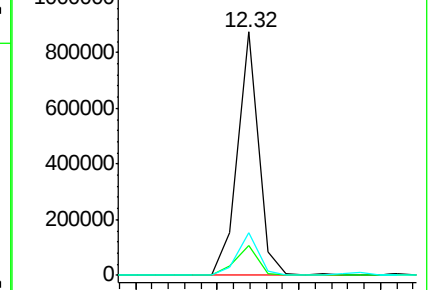
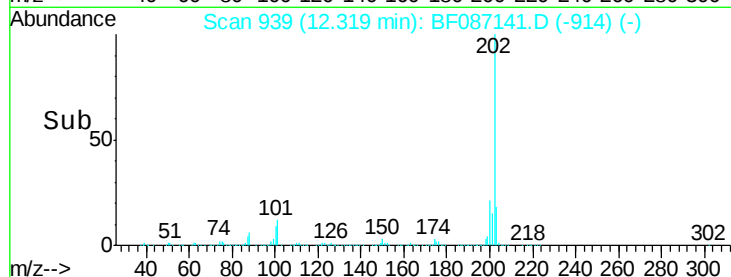
203 17.8 0.0 38.1



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: 13.75 min Scan# 1064

Delta R.T. -0.01 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

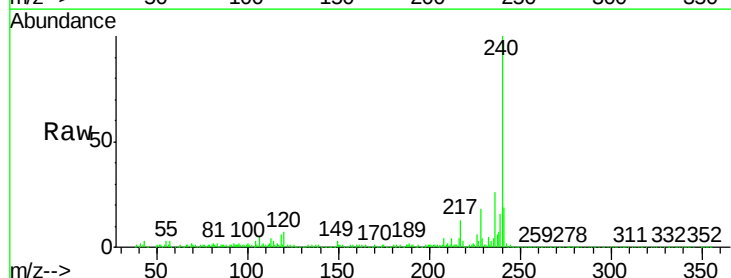
Tgt Ion:240 Resp: 416779

Ion Ratio Lower Upper

240 100

120 6.6 11.2 16.8#

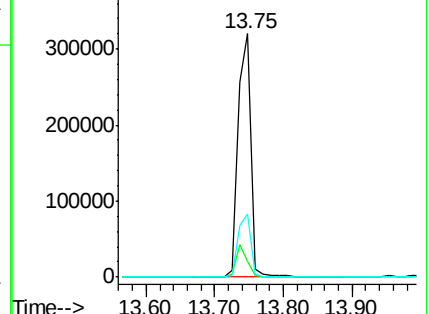
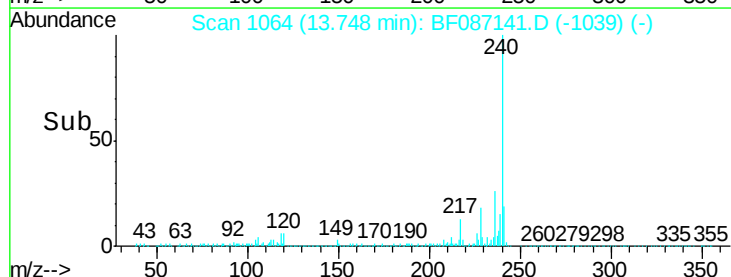
236 26.0 21.2 31.8

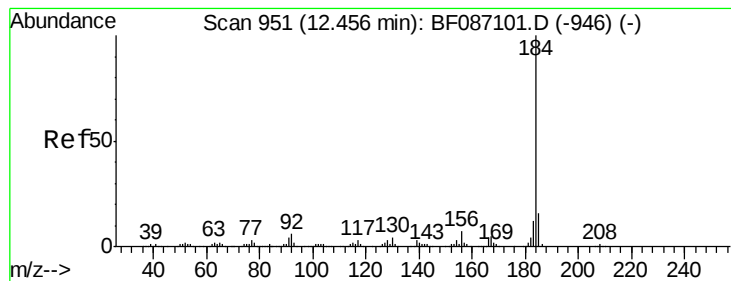


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 2.07 ng

RT: 12.70 min Scan# 972

Delta R.T. 0.23 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

Instrument :

BNA_F

ClientSampleId :

90TH-AVE-SB-11-0.5-6.0RE

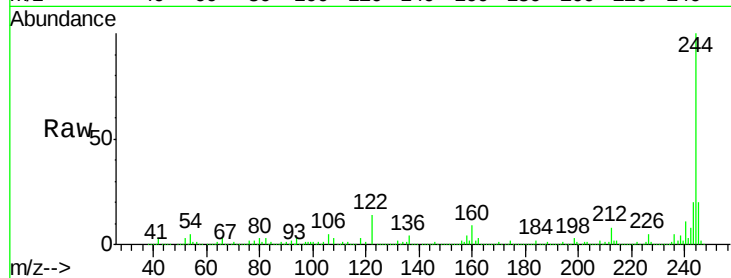
Tgt Ion:184 Resp: 17355

Ion Ratio Lower Upper

184 100

185 17.7 13.6 20.4

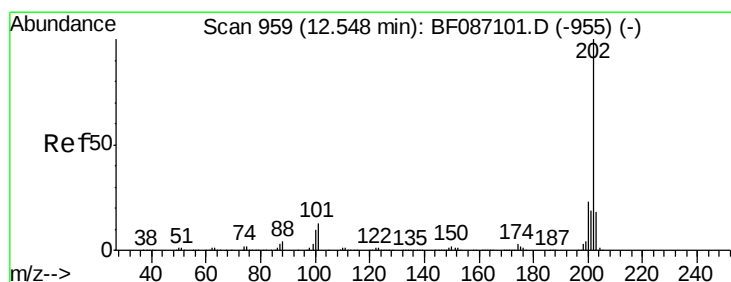
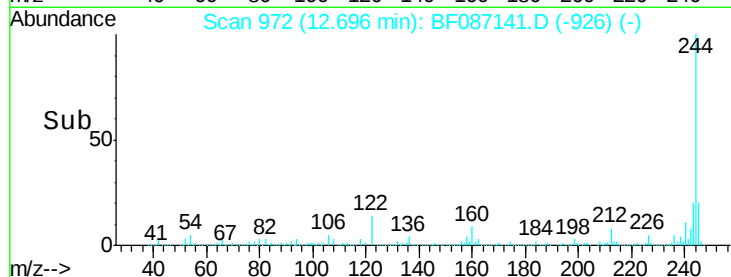
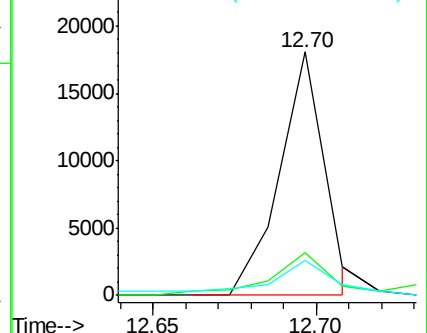
183 14.5 9.8 14.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 23.75 ng

RT: 12.55 min Scan# 959

Delta R.T. -0.01 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

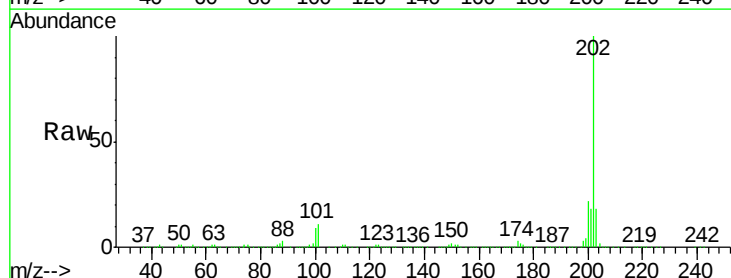
Tgt Ion:202 Resp: 715155

Ion Ratio Lower Upper

202 100

200 21.7 17.7 26.5

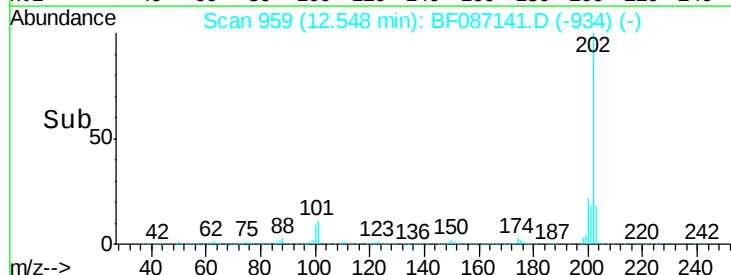
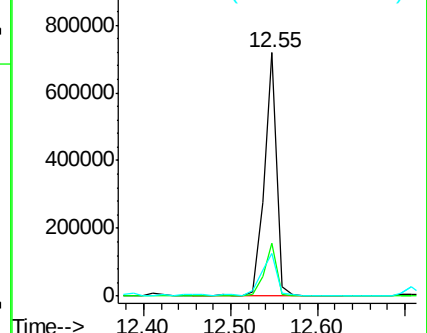
203 17.7 14.2 21.4

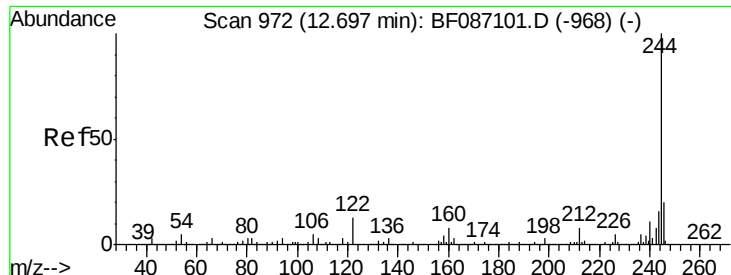


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

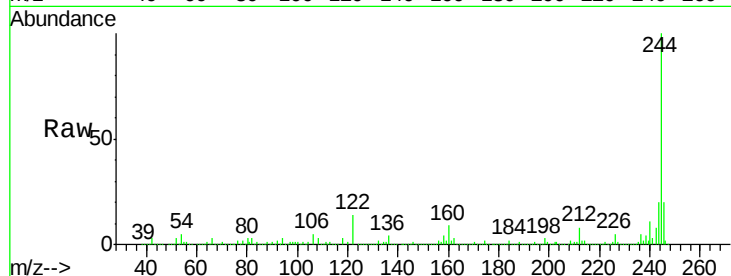




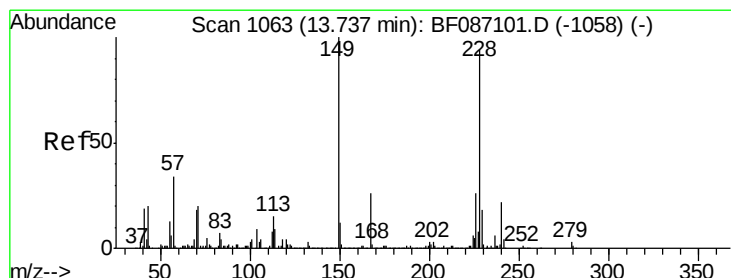
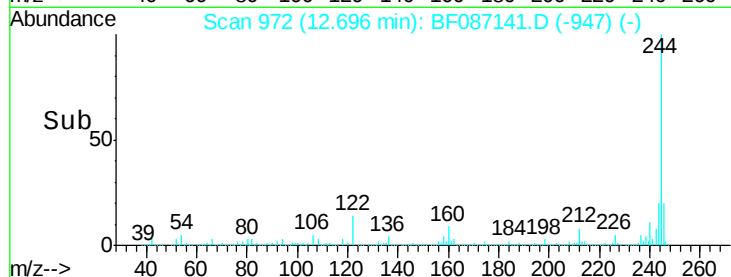
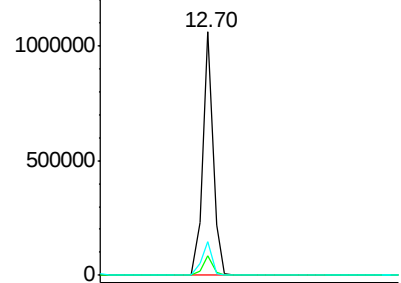
#78
 Terphenyl-d14
 Concen: 57.32 ng
 RT: 12.70 min Scan# 972
 Delta R.T. -0.01 min
 Lab File: BF087141.D
 Acq: 18 May 2016 9:59

Instrument :
 BNA_F
 ClientSampleId :
 90TH-AVE-SB-11-0.5-6.0RE

Tgt Ion:244 Resp: 1056158
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.2 9.2
 122 13.9 12.0 18.0

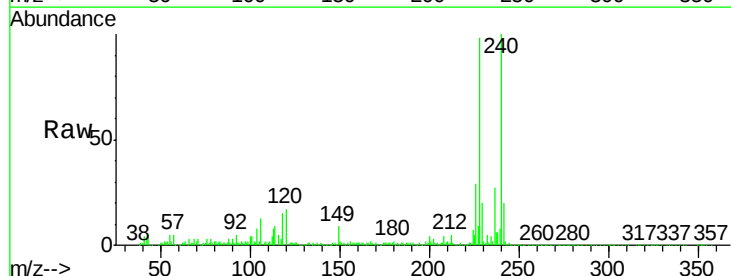


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

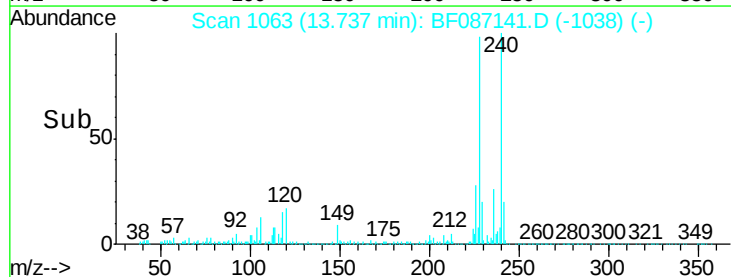
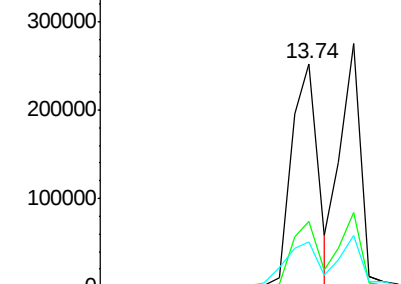


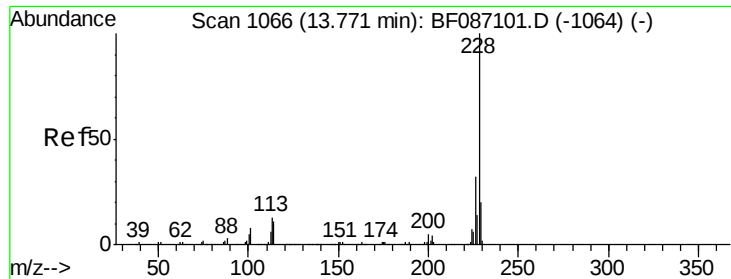
#80
 Benzo(a)anthracene
 Concen: 14.78 ng
 RT: 13.74 min Scan# 1063
 Delta R.T. -0.01 min
 Lab File: BF087141.D
 Acq: 18 May 2016 9:59

Tgt Ion:228 Resp: 356287
 Ion Ratio Lower Upper
 228 100
 226 29.2 22.5 33.7
 229 20.4 16.6 25.0



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: 15.28 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.05 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

Instrument :

BNA_F

ClientSampleId :

90TH-AVE-SB-11-0.5-6.0RE

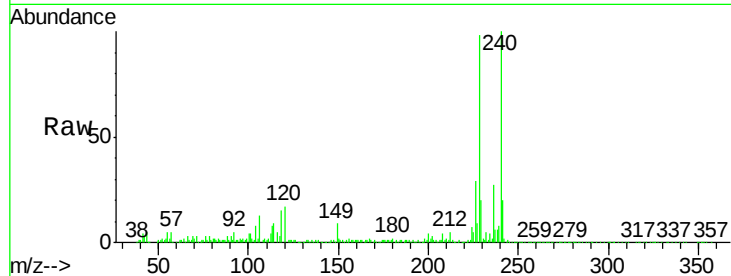
Tgt Ion:228 Resp: 356287

Ion Ratio Lower Upper

228 100

226 29.2 24.4 36.6

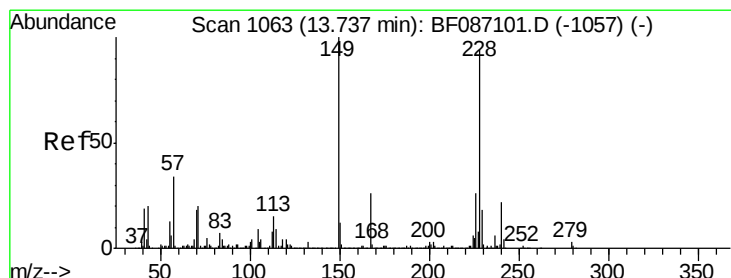
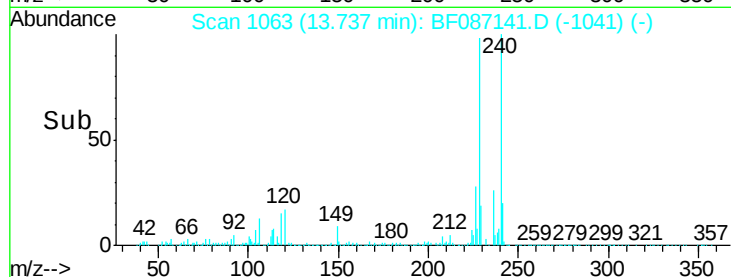
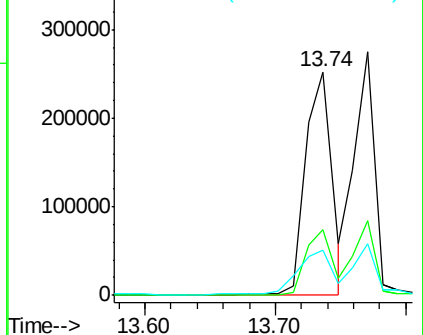
229 20.4 15.8 23.8



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.45 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.01 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

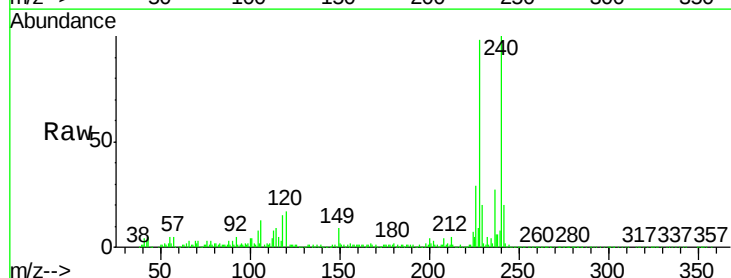
Tgt Ion:149 Resp: 37880

Ion Ratio Lower Upper

149 100

167 23.7 21.8 32.6

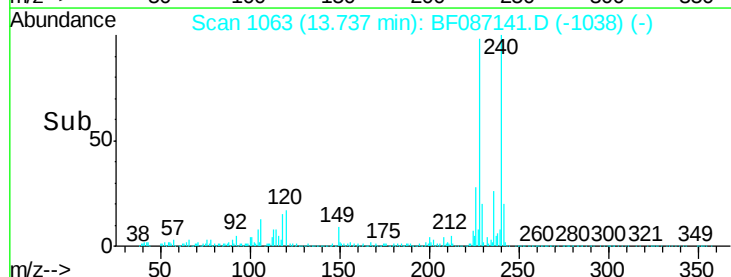
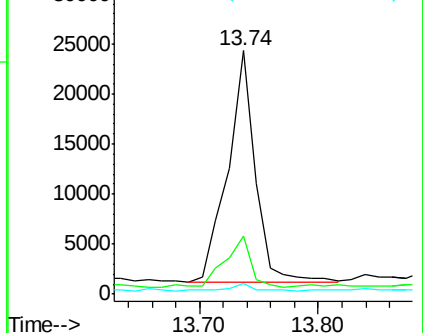
279 4.2 2.6 4.0#

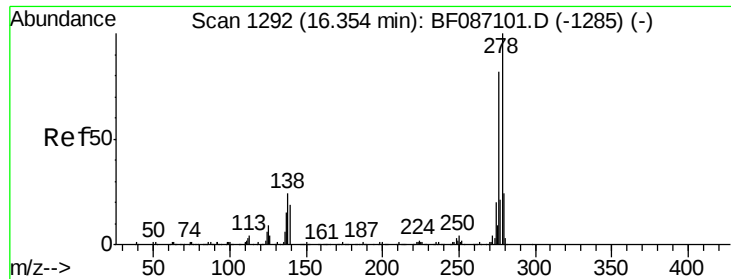


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

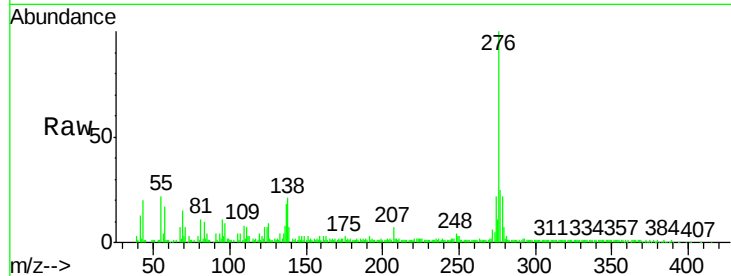




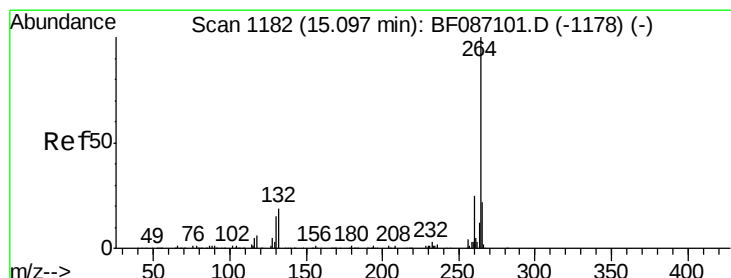
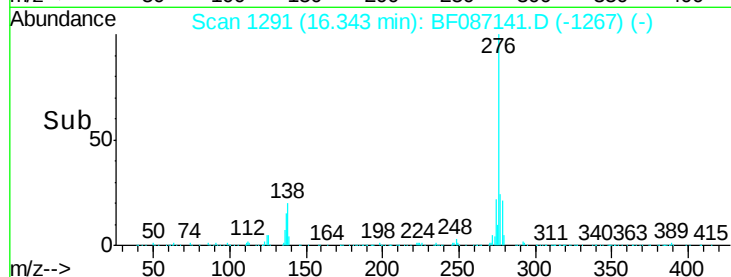
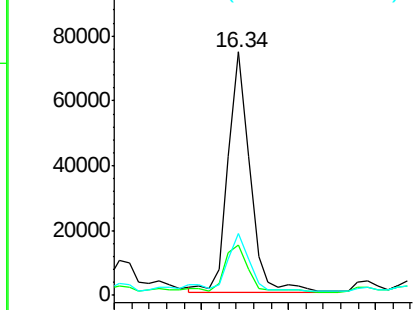
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.32 ng
 RT: 16.34 min Scan# 1291
 Delta R.T. -0.02 min
 Lab File: BF087141.D
 Acq: 18 May 2016 9:59

Instrument :
 BNA_F
 ClientSampleId :
 90TH-AVE-SB-11-0.5-6.0RE

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.3	25.6	38.4#
277	28.4	20.5	30.7

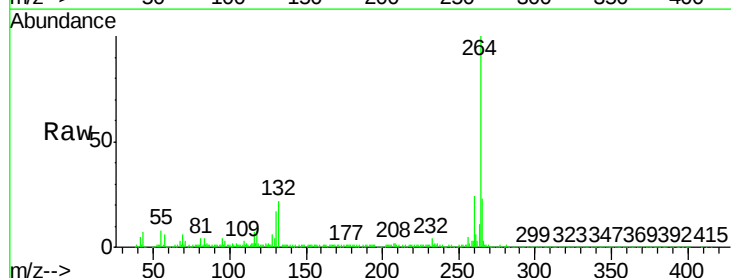


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

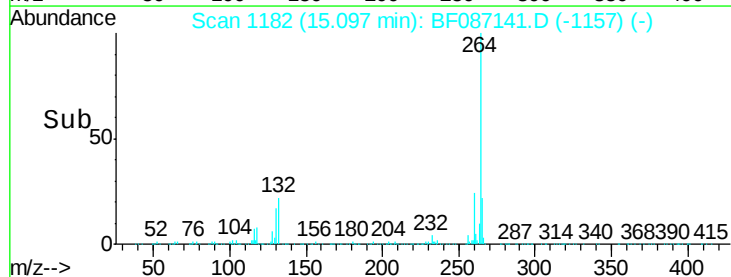
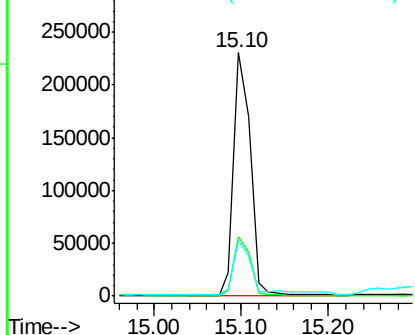


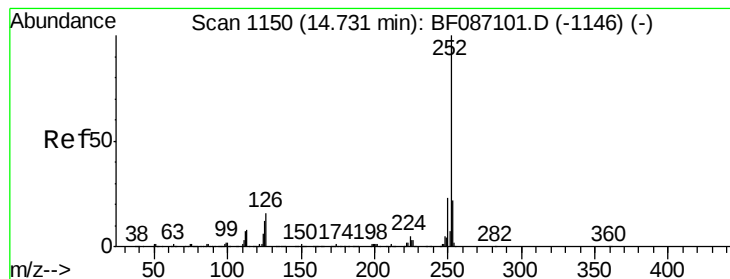
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.10 min Scan# 1182
 Delta R.T. -0.01 min
 Lab File: BF087141.D
 Acq: 18 May 2016 9:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	22.6	17.3	25.9



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: 23.42 ng

RT: 14.73 min Scan# 1150

Delta R.T. -0.01 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

Instrument :

BNA_F

ClientSampleId :

90TH-AVE-SB-11-0.5-6.0RE

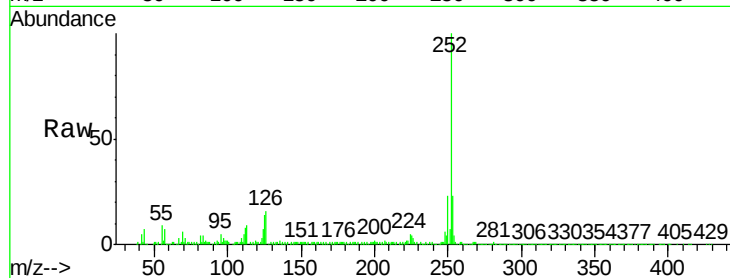
Tgt Ion:252 Resp: 475546

Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.6

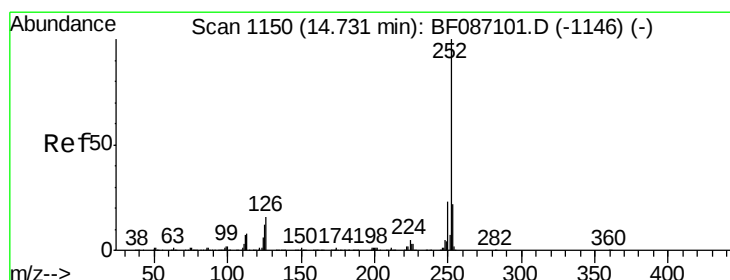
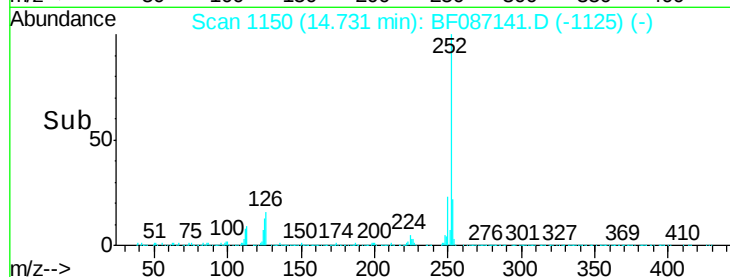
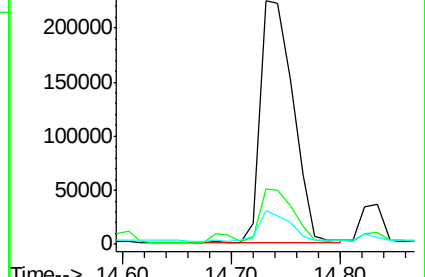
125 14.0 11.4 17.0



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



#88

Benzo(k)fluoranthene

Concen: 31.45 ng

RT: 14.73 min Scan# 1150

Delta R.T. -0.05 min

Lab File: BF087141.D

Acq: 18 May 2016 9:59

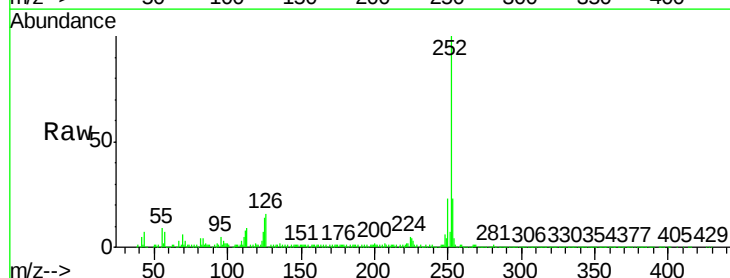
Tgt Ion:252 Resp: 475546

Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.6

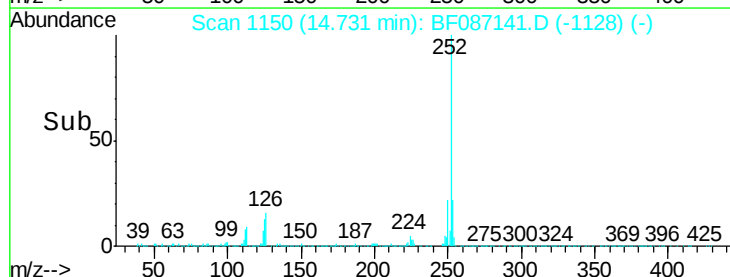
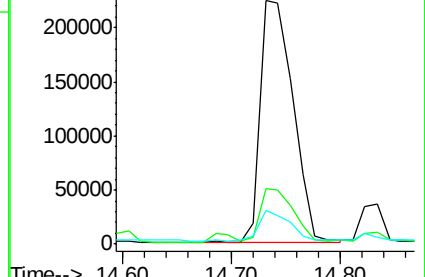
125 14.0 9.1 13.7#

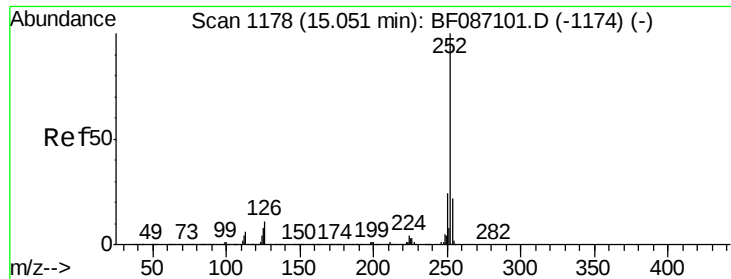


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

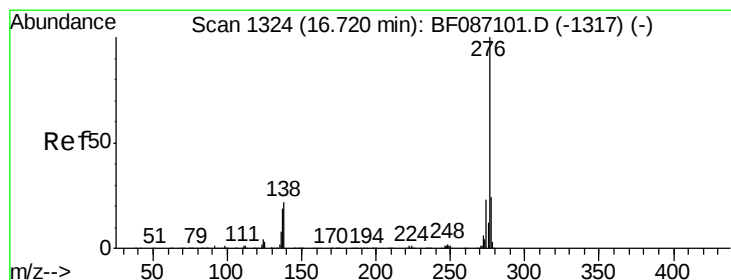
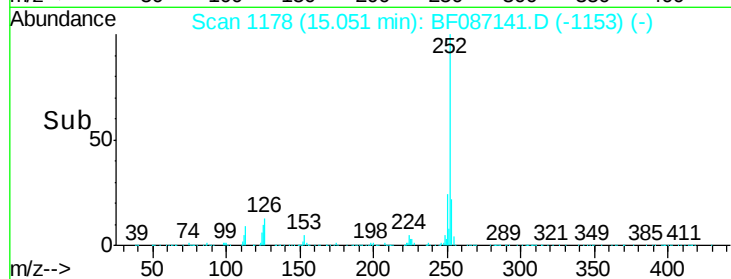
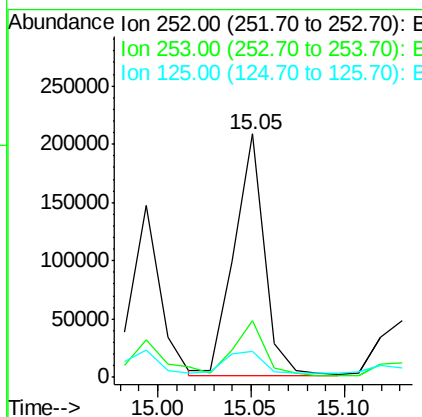
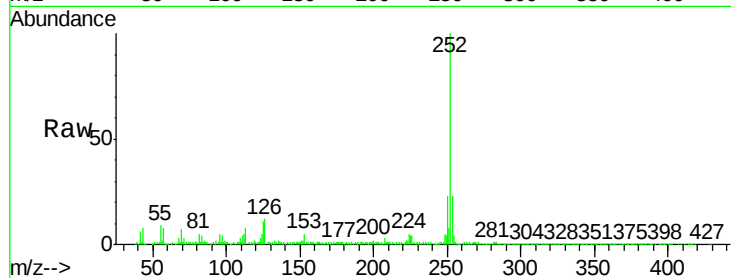




#89
Benzo(a)pyrene
Concen: 13.94 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.01 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

Instrument :
BNA_F
ClientSampleId :
90TH-AVE-SB-11-0.5-6.0RE

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.2	25.8
125	10.5	9.0	13.6



#91
Benzo(g,h,i)perylene
Concen: 7.86 ng
RT: 16.72 min Scan# 1324
Delta R.T. -0.02 min
Lab File: BF087141.D
Acq: 18 May 2016 9:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.9	19.6	29.4
138	21.3	23.6	35.4#

