

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061016\
 Data File : BF087871.D
 Acq On : 10 Jun 2016 13:34
 Operator : UM/SJ
 Sample : H3426-13
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-5

Quant Time: Jun 10 14:08:54 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 07 18:51:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	125720	20.00	ng	-0.03
21) Naphthalene-d8	8.10	136	504409	20.00	ng	-0.02
38) Acenaphthene-d10	9.85	164	214612	20.00	ng	-0.03
63) Phenanthrene-d10	11.32	188	416085	20.00	ng	-0.03
75) Chrysene-d12	13.95	240	271191	20.00	ng	-0.03
86) Perylene-d12	15.36	264	272054	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	687604	93.50	ng	-0.02
7) Phenol-d6	6.44	99	872107	97.85	ng	-0.03
23) Nitrobenzene-d5	7.38	82	631617	73.12	ng	-0.03
41) 2,4,6-Tribromophenol	10.64	330	216132	95.38	ng	-0.03
44) 2-Fluorobiphenyl	9.18	172	930430	66.93	ng	-0.03
78) Terphenyl-d14	12.90	244	713930	59.91	ng	-0.05

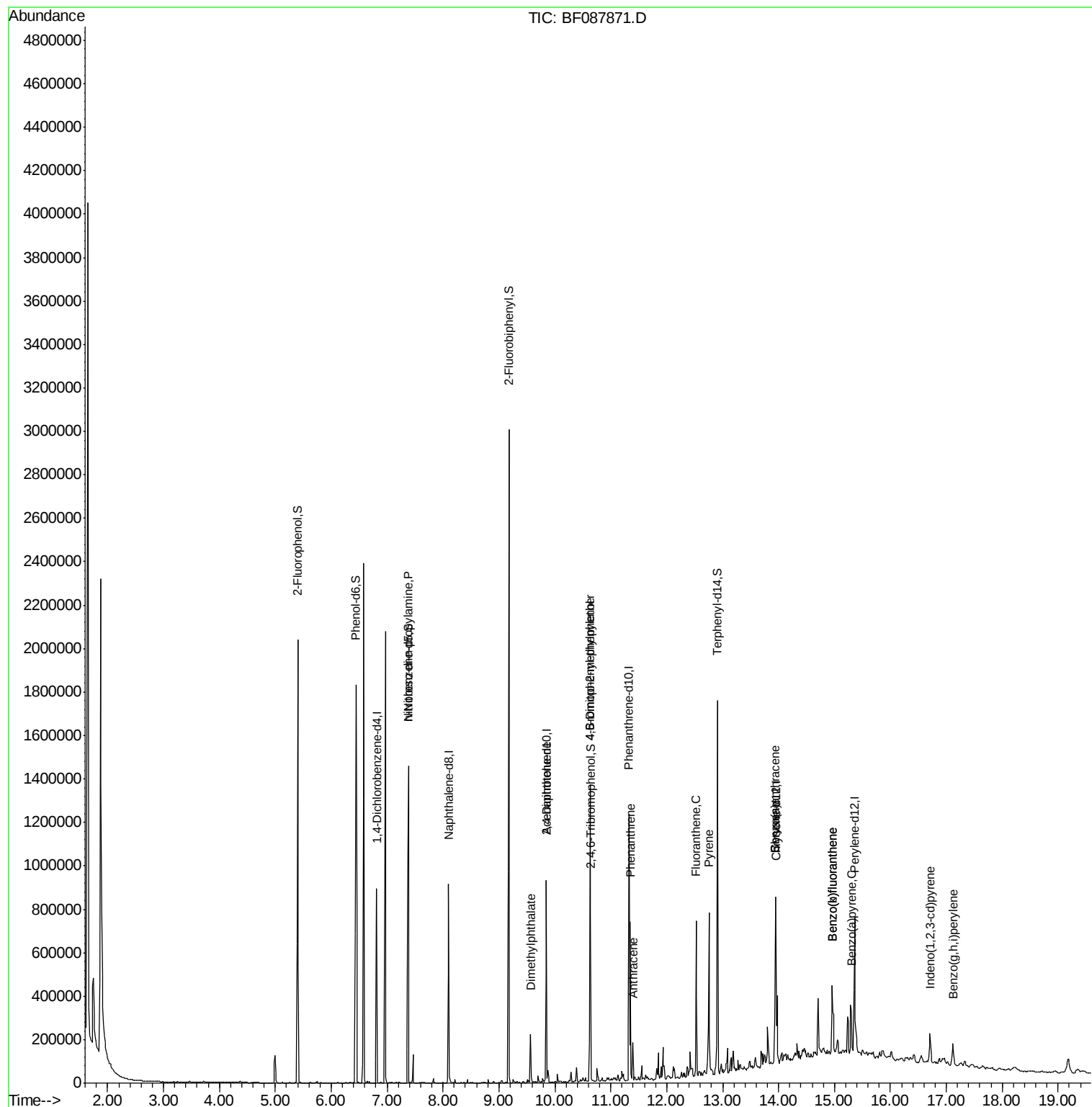
Target Compounds				Qvalue		
10) Phenol	6.46	94	7313	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.38	70	81830	14.35	ng	70
45) 1,1'-Biphenyl	9.27	154	1928	Below Cal		93
49) Dimethylphthalate	9.56	163	79860	5.14	ng	99
56) 2,4-Dinitrotoluene	9.85	165	27722	6.06	ng	# 38
57) Fluorene	10.39	166	16535	Below Cal		99
64) 4,6-Dinitro-2-methylphenol	10.63	198	299	2.27	ng	# 1
66) 4-Bromophenyl-phenylether	10.63	248	13328	2.99	ng	# 1
70) Phenanthrene	11.35	178	247701	11.34	ng	98
71) Anthracene	11.39	178	67561	3.07	ng	97
74) Fluoranthene	12.52	202	327252	14.20	ng	96
77) Pyrene	12.75	202	292419	14.53	ng	99
80) Benzo(a)anthracene	13.94	228	147671	9.56	ng	97
82) Chrysene	13.94	228	147671	10.16	ng	98
85) Indeno(1,2,3-cd)pyrene	16.71	276	83428	6.18	ng	# 100
87) Benzo(b)fluoranthene	14.96	252	238947	12.60	ng	# 95
88) Benzo(k)fluoranthene	14.96	252	238947	16.71	ng	99
89) Benzo(a)pyrene	15.30	252	128462	8.37	ng	# 94
91) Benzo(g,h,i)perylene	17.12	276	75596	5.16	ng	97

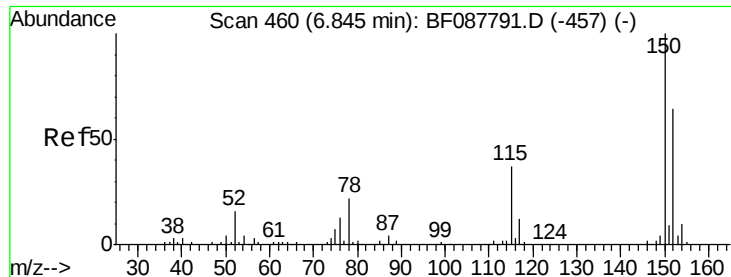
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.81 min Scan# 457

Delta R.T. -0.03 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :

BNA_F

ClientSampleId :

DUP-5

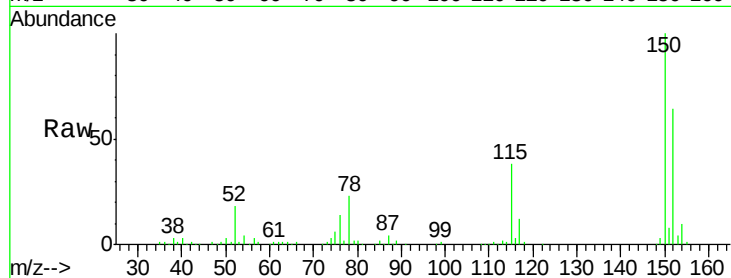
Tgt Ion:152 Resp: 125720

Ion Ratio Lower Upper

152 100

150 155.6 123.8 185.6

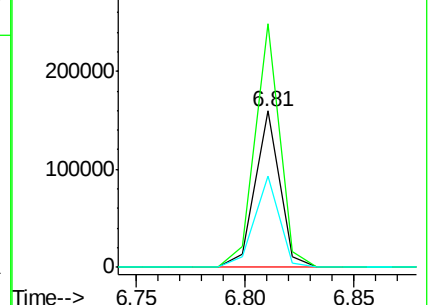
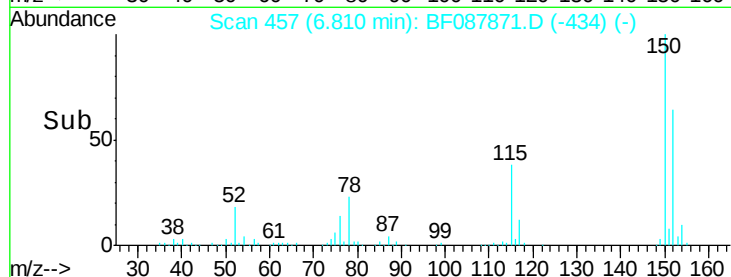
115 58.5 39.6 59.4



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



#5

2-Fluorophenol

Concen: 93.50 ng

RT: 5.40 min Scan# 334

Delta R.T. -0.02 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

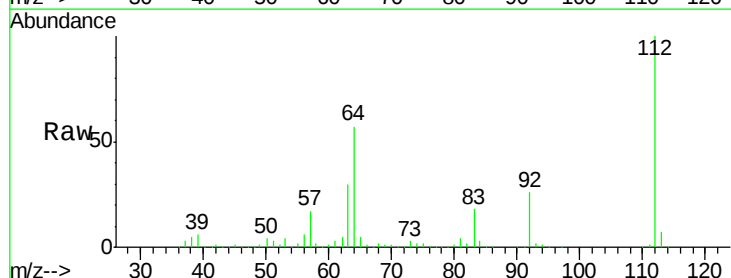
Tgt Ion:112 Resp: 687604

Ion Ratio Lower Upper

112 100

64 57.2 42.2 63.2

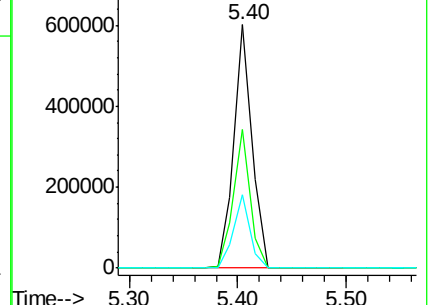
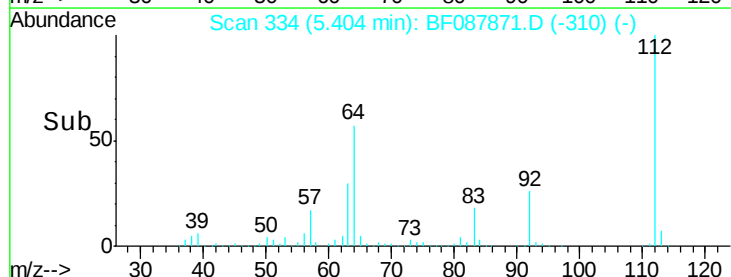
63 29.9 21.8 32.8



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: 97.85 ng

RT: 6.44 min Scan# 425

Delta R.T. -0.03 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :

BNA_F

ClientSampleId :

DUP-5

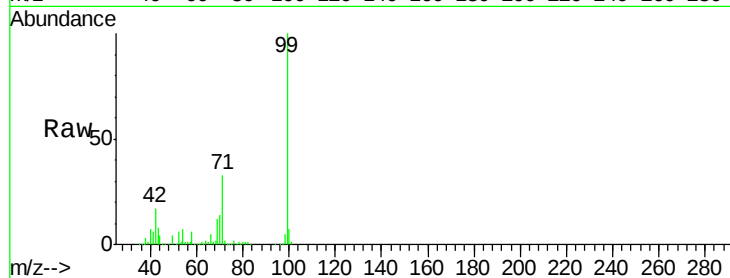
Tgt Ion: 99 Resp: 872107

Ion Ratio Lower Upper

99 100

42 17.0 12.2 18.2

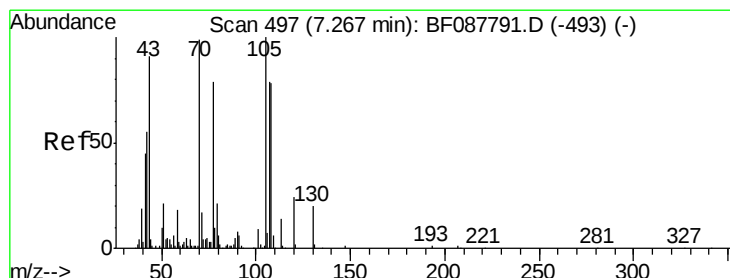
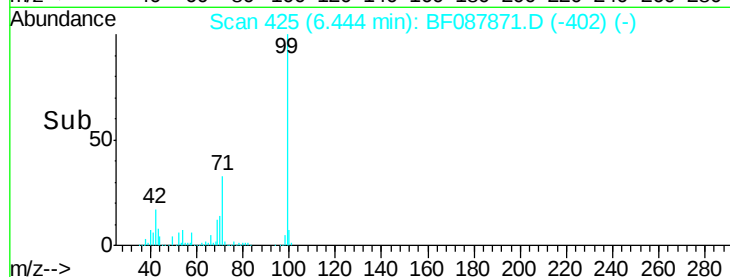
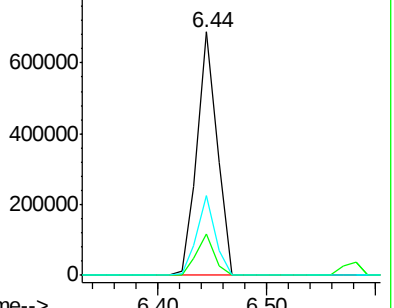
71 33.0 23.4 35.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.35 ng

RT: 7.38 min Scan# 507

Delta R.T. 0.11 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Tgt Ion: 70 Resp: 81830

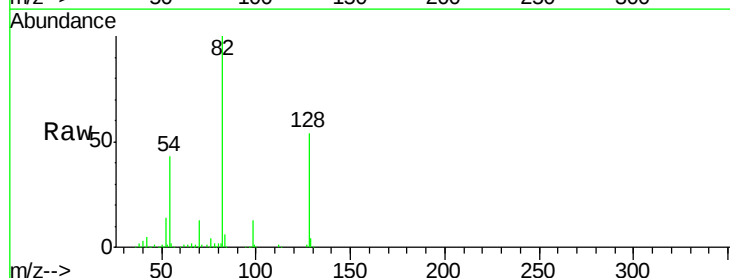
Ion Ratio Lower Upper

70 100

42 39.4 49.6 74.4#

101 0.0 7.1 10.7#

130 2.8 15.4 23.2#

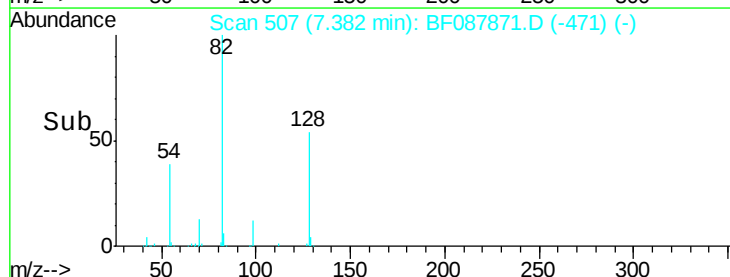
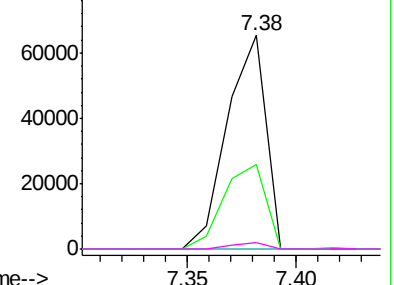


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

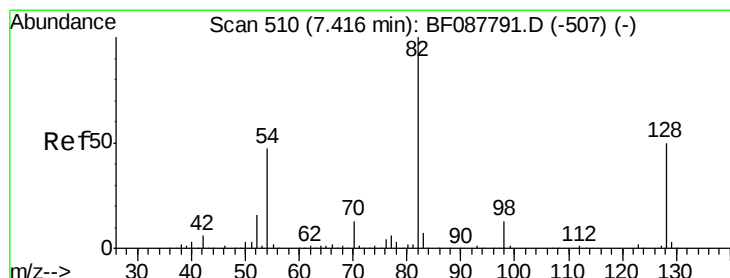
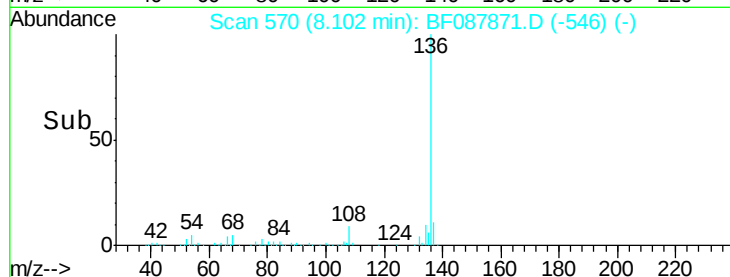
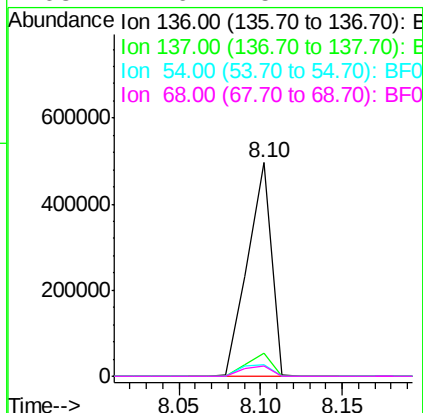
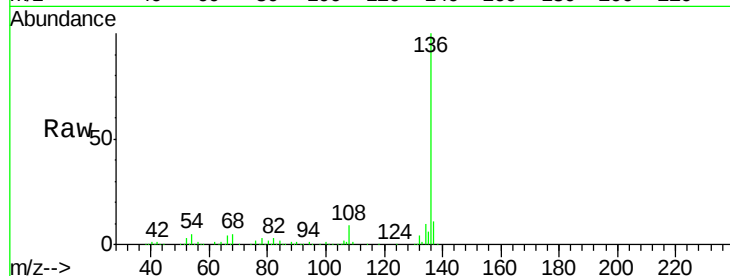




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.10 min Scan# 570
Delta R.T. -0.02 min
Lab File: BF087871.D
Acq: 10 Jun 2016 13:34

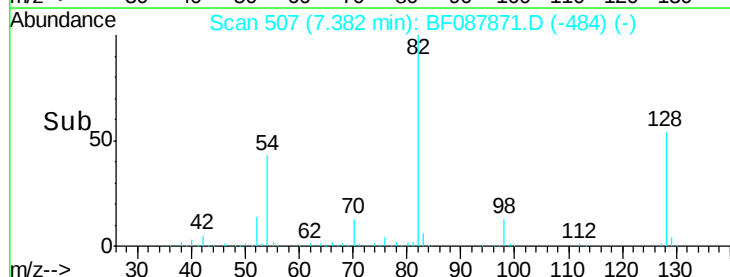
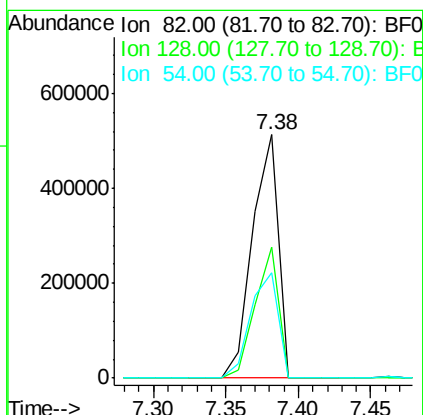
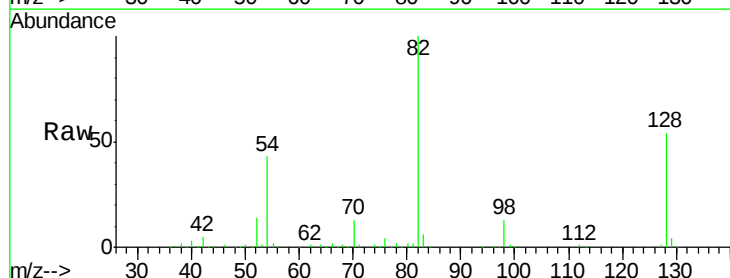
Instrument :
BNA_F
ClientSampleId :
DUP-5

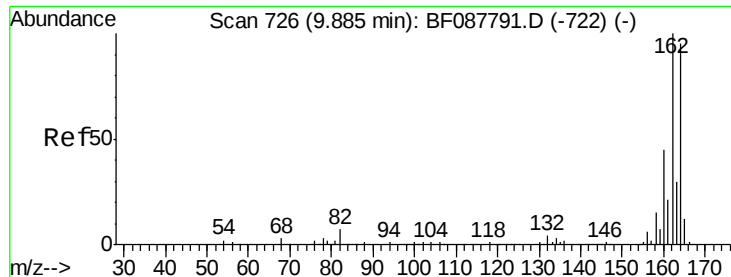
Tgt Ion:	136	Resp:	504409
Ion	Ratio	Lower	Upper
136	100		
137	10.5	9.1	13.7
54	5.2	6.6	10.0#
68	4.6	5.1	7.7#



#23
Nitrobenzene-d5
Concen: 73.12 ng
RT: 7.38 min Scan# 507
Delta R.T. -0.03 min
Lab File: BF087871.D
Acq: 10 Jun 2016 13:34

Tgt Ion:	82	Resp:	631617
Ion	Ratio	Lower	Upper
82	100		
128	53.6	35.9	53.9
54	43.5	40.9	61.3





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 723

Delta R.T. -0.03 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :

BNA_F

ClientSampleId :

DUP-5

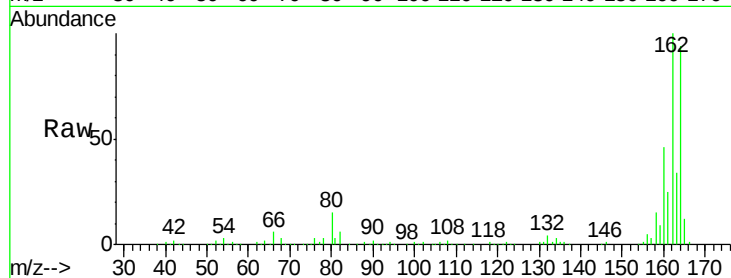
Tgt Ion:164 Resp: 214612

Ion Ratio Lower Upper

164 100

162 106.2 85.4 128.2

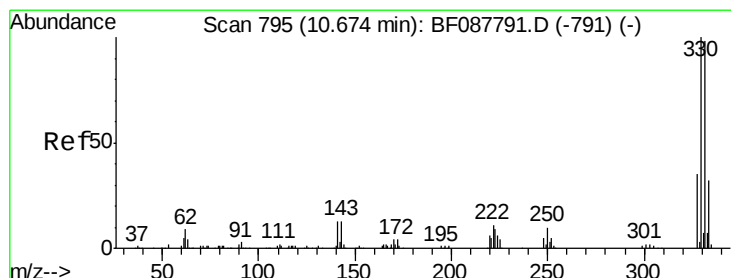
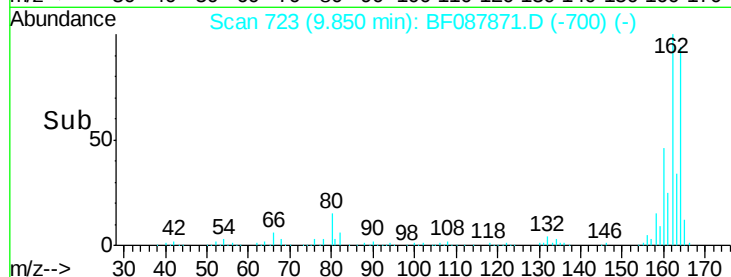
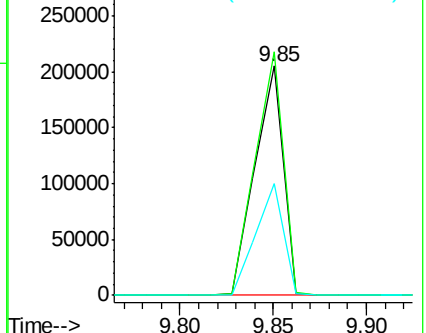
160 49.0 39.5 59.3



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: 95.38 ng

RT: 10.64 min Scan# 792

Delta R.T. -0.03 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

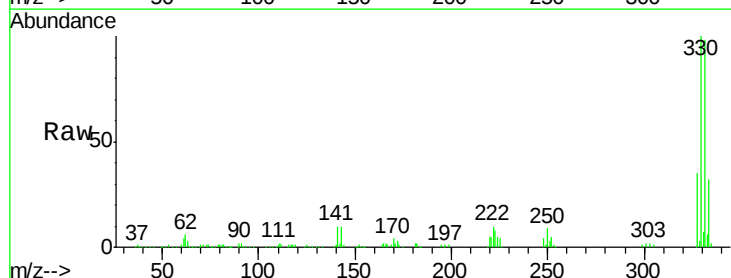
Tgt Ion:330 Resp: 216132

Ion Ratio Lower Upper

330 100

332 96.5 0.0 0.0#

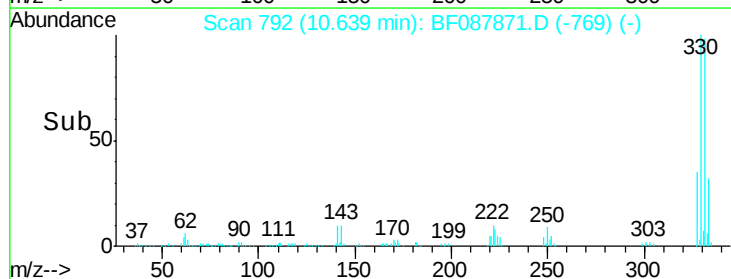
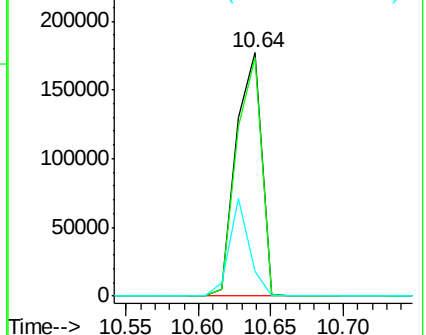
141 31.4 0.0 0.0#

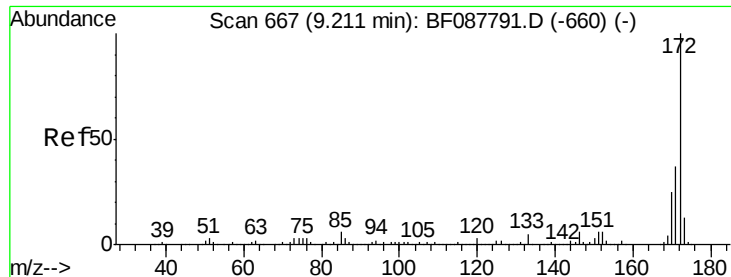


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

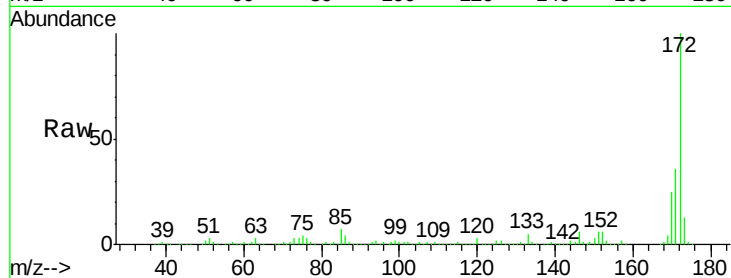




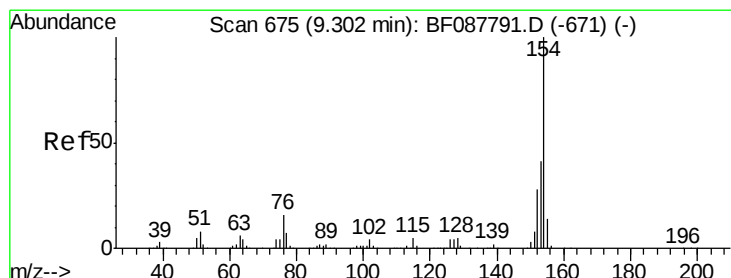
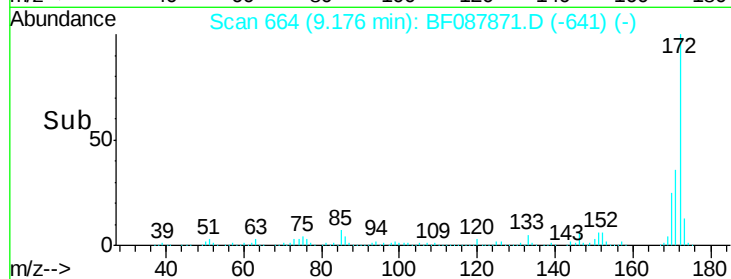
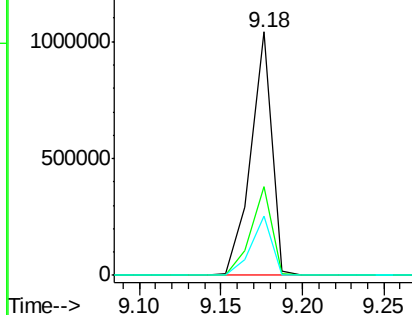
#44
 2-Fluorobiphenyl
 Concen: 66.93 ng
 RT: 9.18 min Scan# 664
 Delta R.T. -0.03 min
 Lab File: BF087871.D
 Acq: 10 Jun 2016 13:34

Instrument :
 BNA_F
 ClientSampleId :
 DUP-5

Tgt Ion:172 Resp: 930430
 Ion Ratio Lower Upper
 172 100
 171 36.3 28.6 43.0
 170 24.6 19.2 28.8

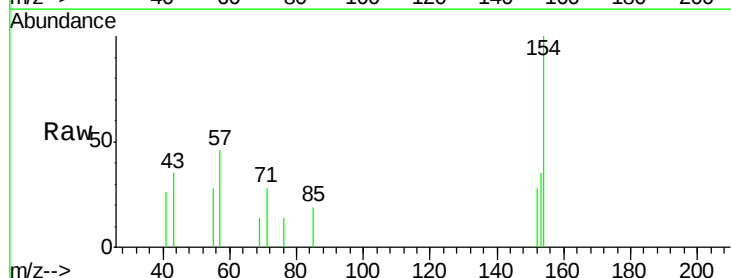


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

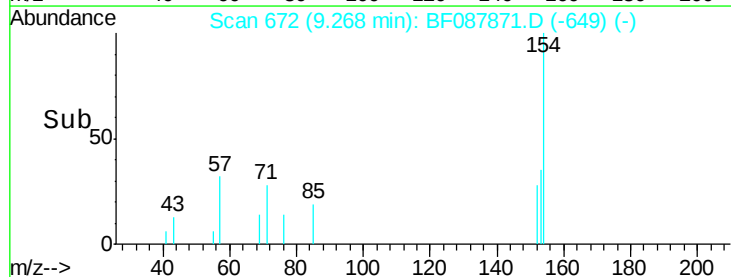
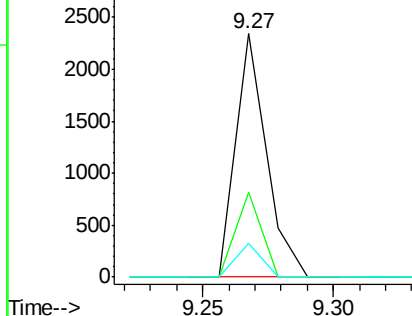


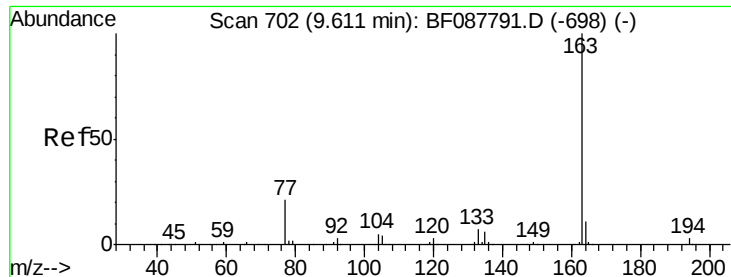
#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.27 min Scan# 672
 Delta R.T. -0.03 min
 Lab File: BF087871.D
 Acq: 10 Jun 2016 13:34

Tgt Ion:154 Resp: 1928
 Ion Ratio Lower Upper
 154 100
 153 35.1 20.6 60.6
 76 13.8 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

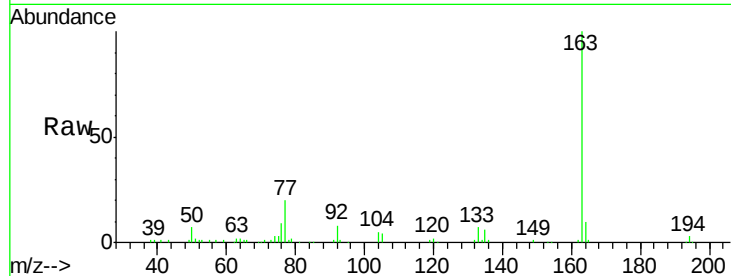




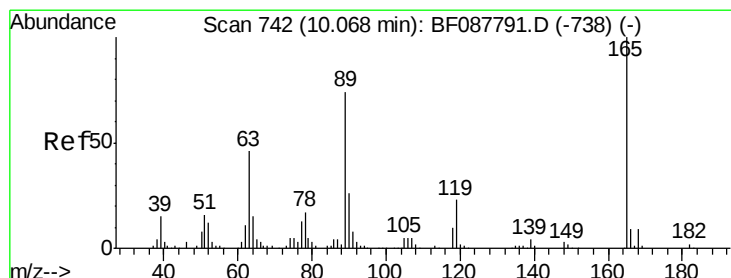
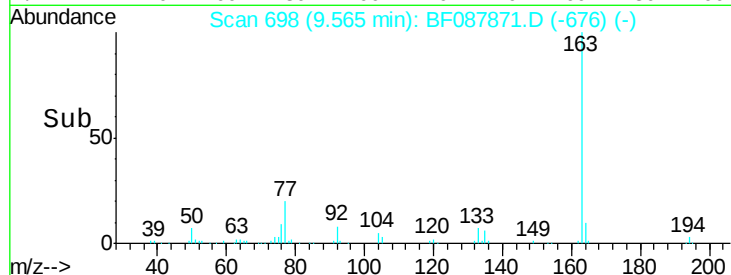
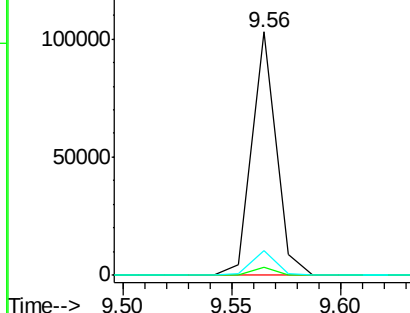
#49
Dimethylphthalate
Concen: 5.14 ng
RT: 9.56 min Scan# 698
Delta R.T. -0.05 min
Lab File: BF087871.D
Acq: 10 Jun 2016 13:34

Instrument :
BNA_F
ClientSampleId :
DUP-5

Tgt Ion:163 Resp: 79860
Ion Ratio Lower Upper
163 100
194 3.1 2.8 4.2
164 10.0 8.3 12.5

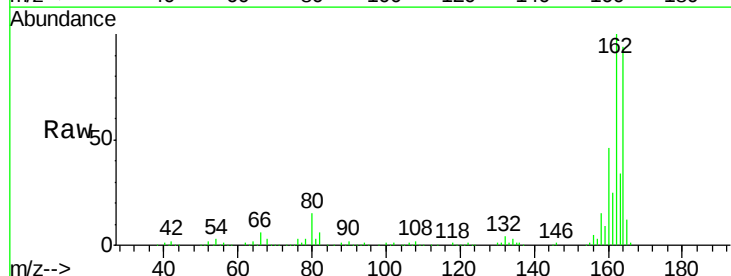


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

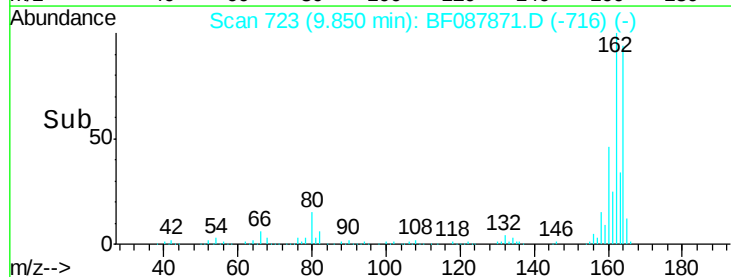
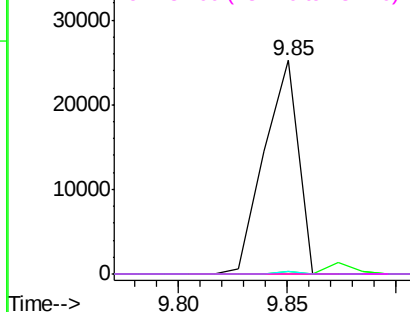


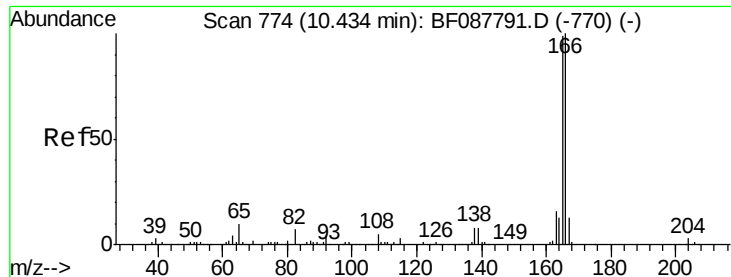
#56
2,4-Dinitrotoluene
Concen: 6.06 ng
RT: 9.85 min Scan# 723
Delta R.T. -0.22 min
Lab File: BF087871.D
Acq: 10 Jun 2016 13:34

Tgt Ion:165 Resp: 27722
Ion Ratio Lower Upper
165 100
63 1.4 22.0 33.0#
89 1.4 41.1 61.7#
182 0.0 2.0 3.0#



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





#57

Fluorene

Concen: Below Cal

RT: 10.39 min Scan# 770

Delta R.T. -0.05 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :

BNA_F

ClientSampleId :

DUP-5

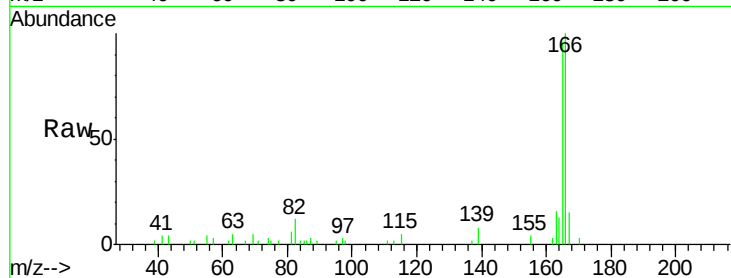
Tgt Ion:166 Resp: 16535

Ion Ratio Lower Upper

166 100

165 96.1 77.8 116.8

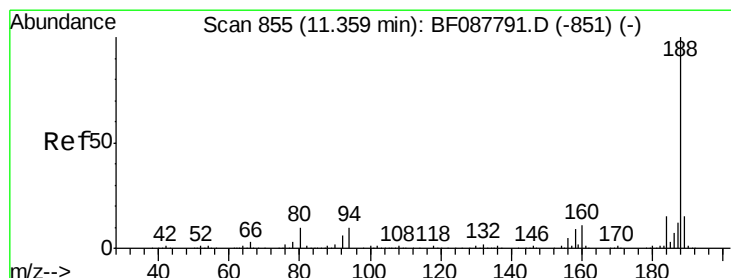
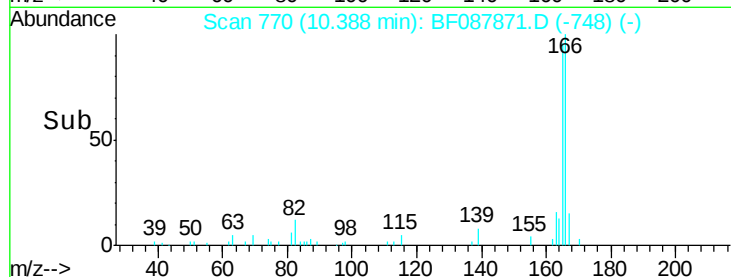
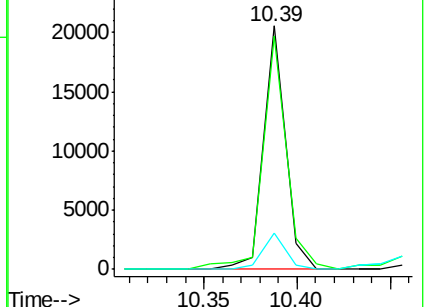
167 15.0 11.2 16.8



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. -0.03 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

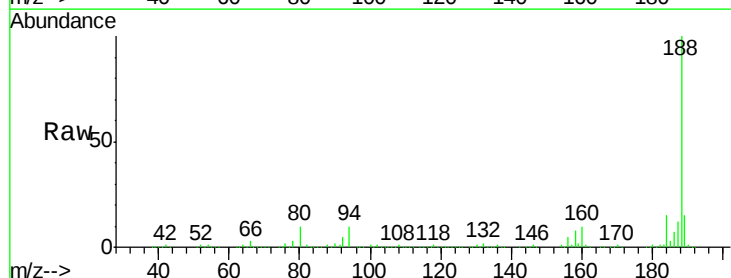
Tgt Ion:188 Resp: 416085

Ion Ratio Lower Upper

188 100

94 9.8 9.0 13.6

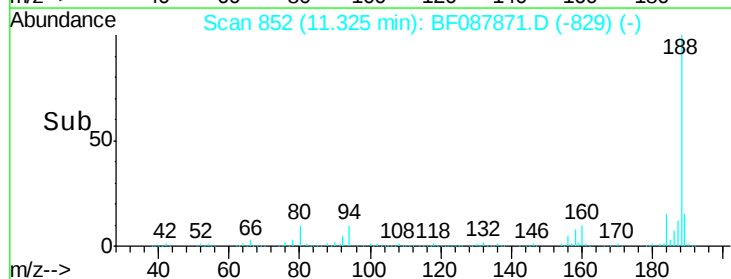
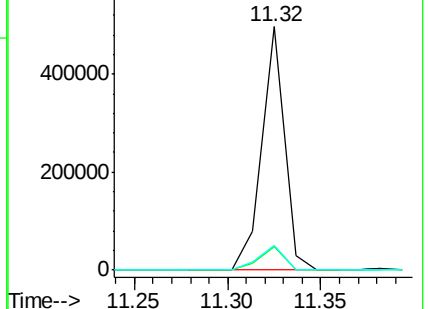
80 10.3 10.0 15.0

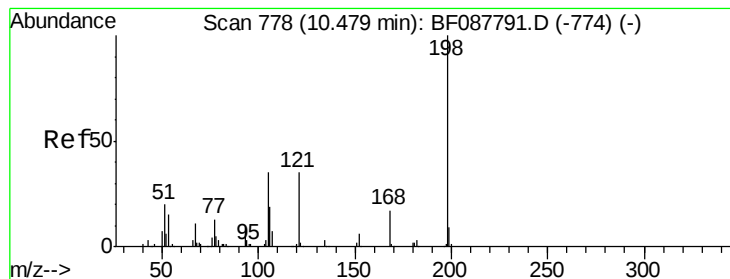


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 2.27 ng

RT: 10.63 min Scan# 791

Delta R.T. 0.15 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :

BNA_F

ClientSampleId :

DUP-5

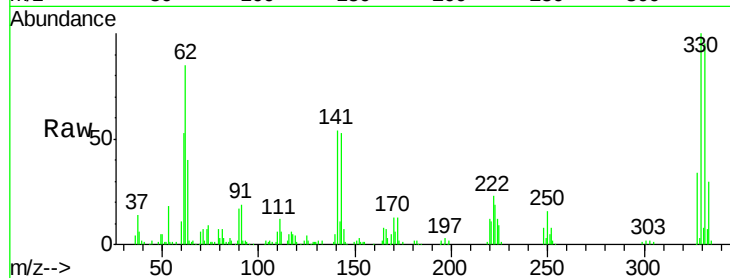
Tgt Ion:198 Resp: 299

Ion Ratio Lower Upper

198 100

51 277.5 39.6 79.6#

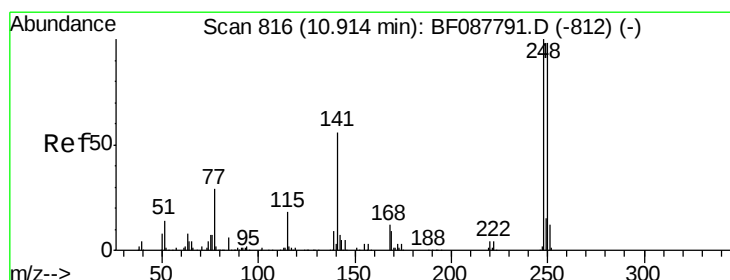
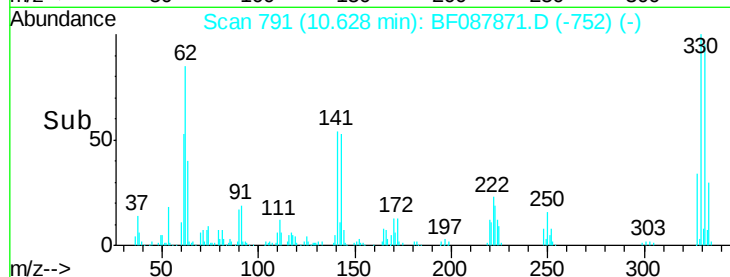
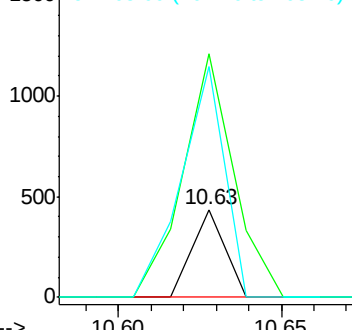
105 263.1 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 2.99 ng

RT: 10.63 min Scan# 791

Delta R.T. -0.29 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

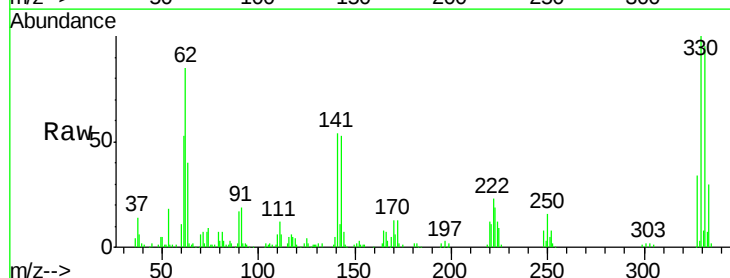
Tgt Ion:248 Resp: 13328

Ion Ratio Lower Upper

248 100

250 192.7 77.1 115.7#

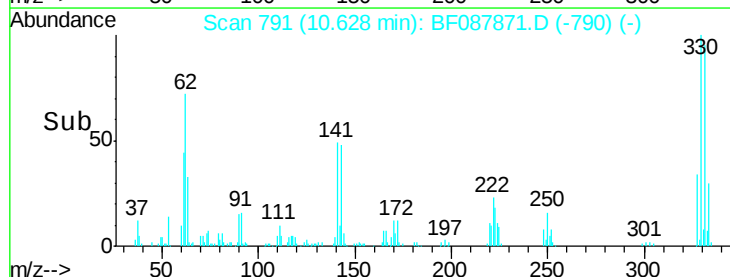
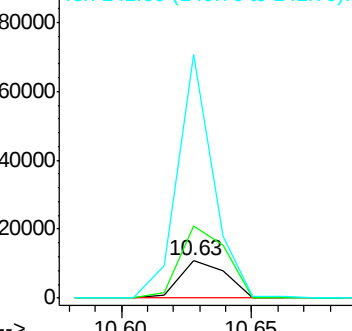
141 650.5 50.6 76.0#

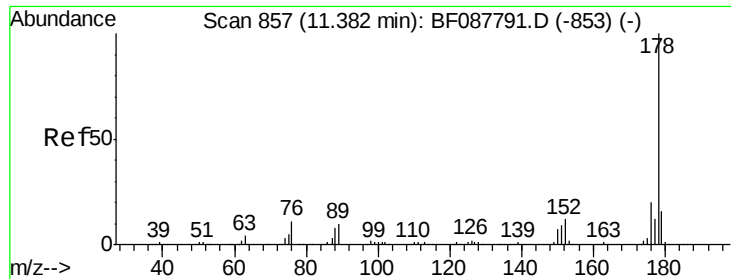


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

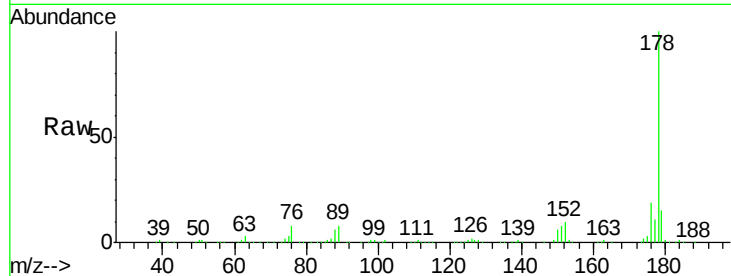




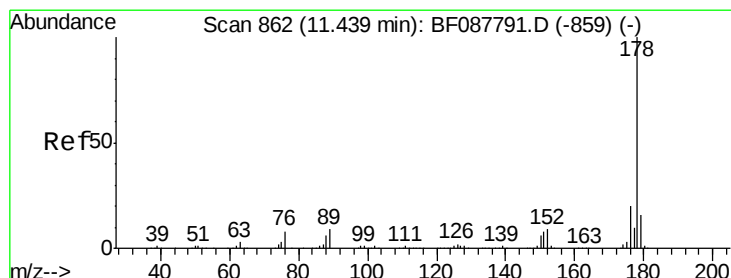
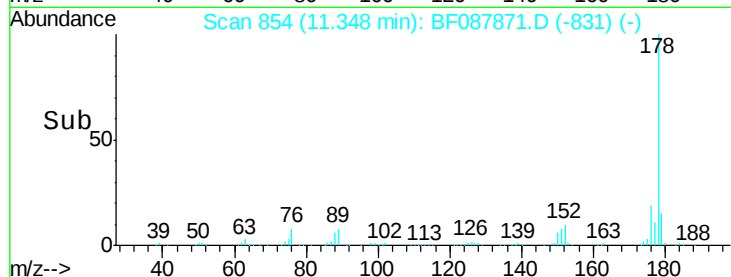
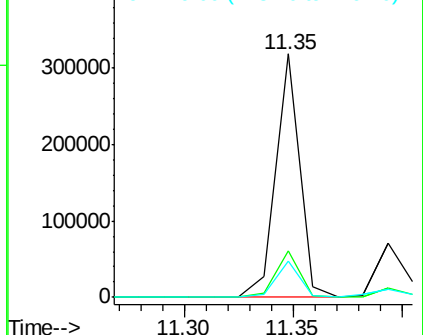
#70
Phenanthrene
Concen: 11.34 ng
RT: 11.35 min Scan# 854
Delta R.T. -0.03 min
Lab File: BF087871.D
Acq: 10 Jun 2016 13:34

Instrument :
BNA_F
ClientSampleId :
DUP-5

Tgt Ion:178 Resp: 247701
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.6
179 15.0 13.0 19.4

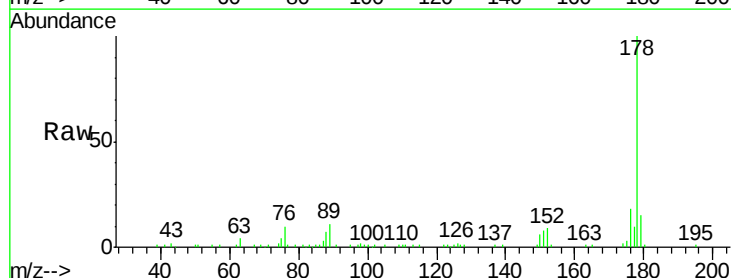


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

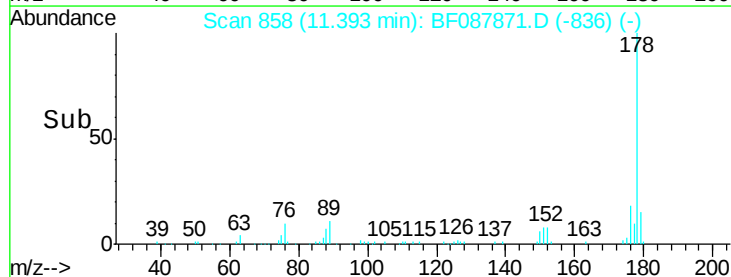
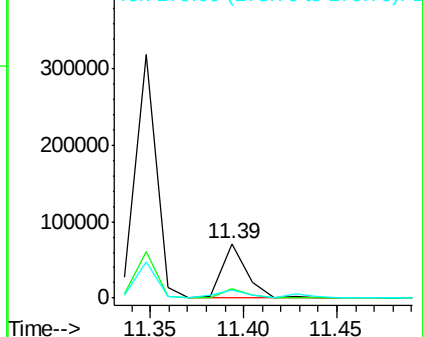


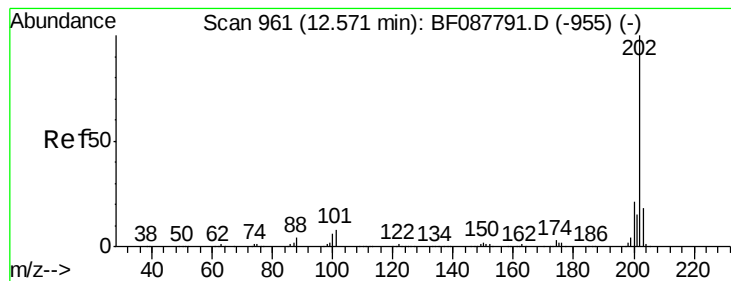
#71
Anthracene
Concen: 3.07 ng
RT: 11.39 min Scan# 858
Delta R.T. -0.05 min
Lab File: BF087871.D
Acq: 10 Jun 2016 13:34

Tgt Ion:178 Resp: 67561
Ion Ratio Lower Upper
178 100
176 17.7 15.6 23.4
179 15.3 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





#74

Fluoranthene

Concen: 14.20 ng

RT: 12.52 min Scan# 957

Delta R.T. -0.05 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :

BNA_F

ClientSampleId :

DUP-5

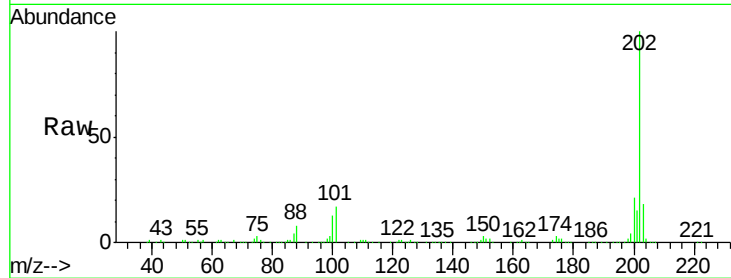
Tgt Ion:202 Resp: 327252

Ion Ratio Lower Upper

202 100

101 16.8 0.0 33.1

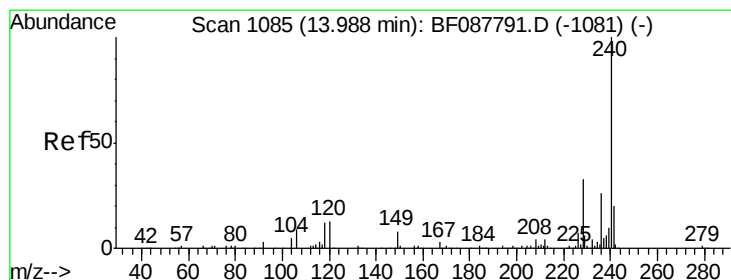
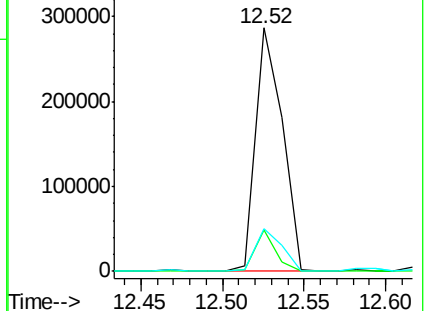
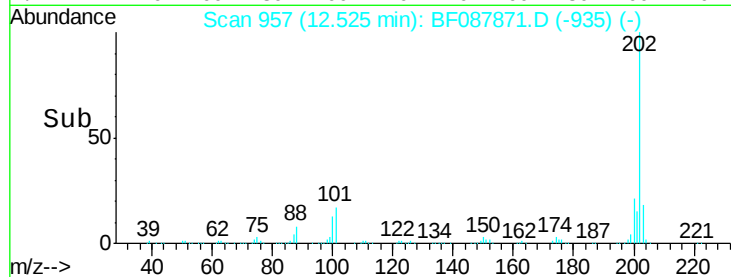
203 17.8 0.0 38.1



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: 13.95 min Scan# 1082

Delta R.T. -0.03 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

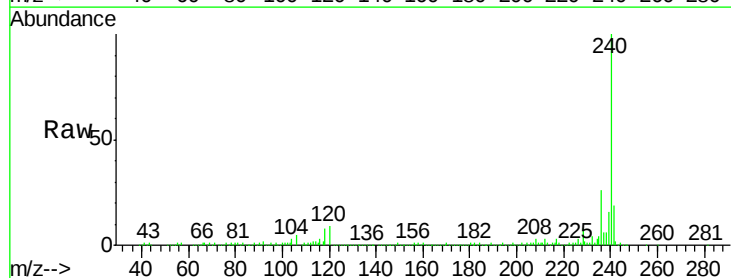
Tgt Ion:240 Resp: 271191

Ion Ratio Lower Upper

240 100

120 8.6 6.8 10.2

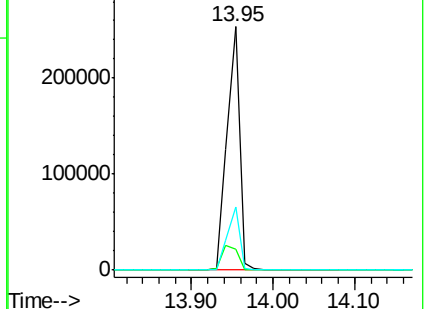
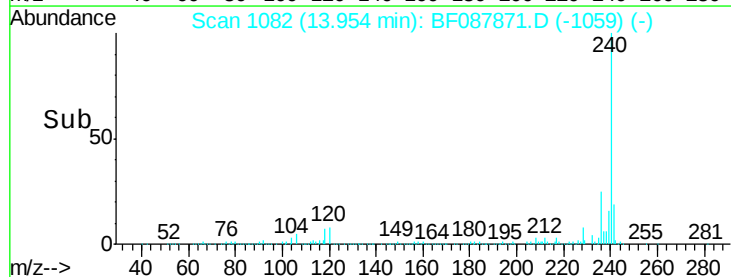
236 25.7 20.2 30.2

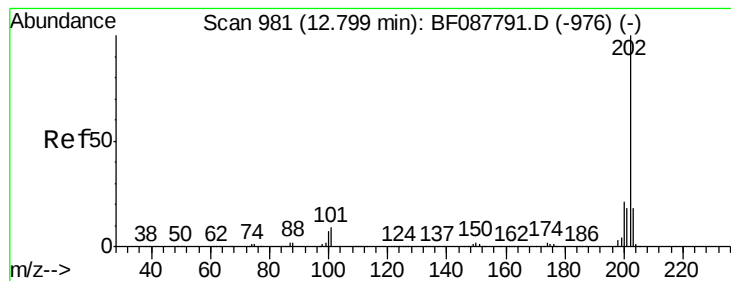


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 14.53 ng

RT: 12.75 min Scan# 977

Delta R.T. -0.05 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :

BNA_F

ClientSampleId :

DUP-5

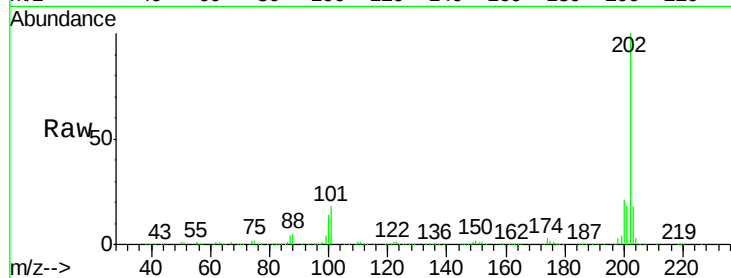
Tgt Ion: 202 Resp: 292419

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

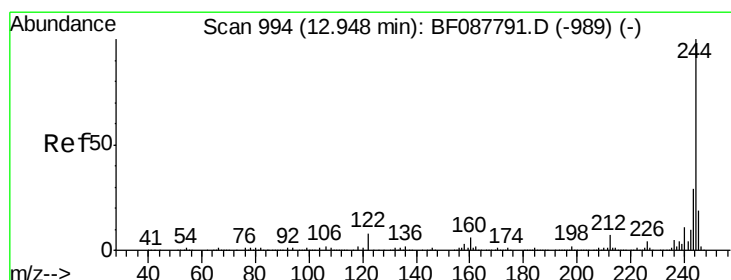
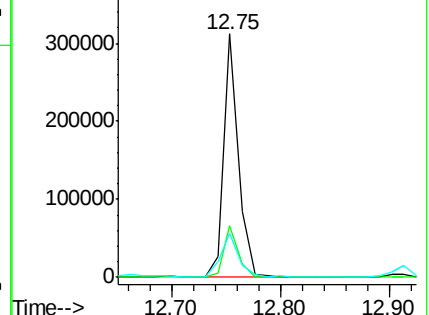
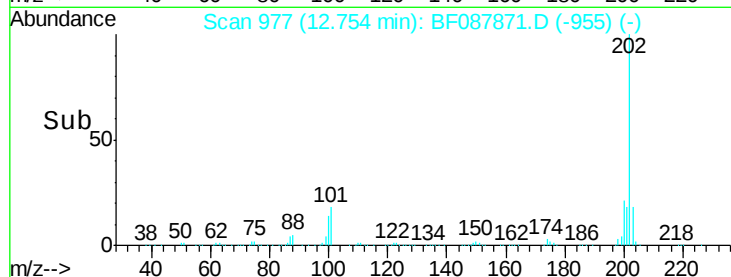
203 18.3 14.5 21.7



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: 59.91 ng

RT: 12.90 min Scan# 990

Delta R.T. -0.05 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

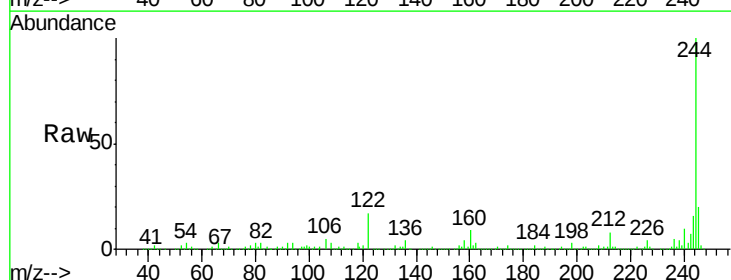
Tgt Ion: 244 Resp: 713930

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

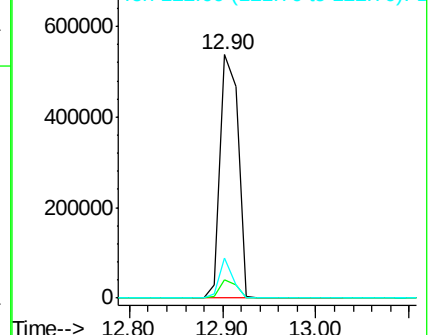
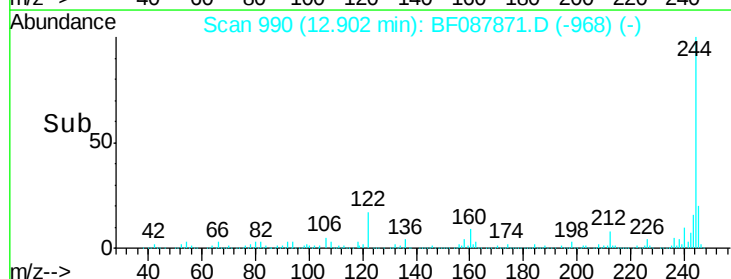
122 16.5 11.2 16.8

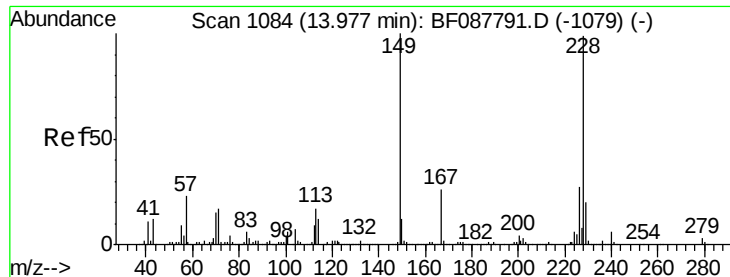


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 9.56 ng

RT: 13.94 min Scan# 1081

Delta R.T. -0.03 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :

BNA_F

ClientSampleId :

DUP-5

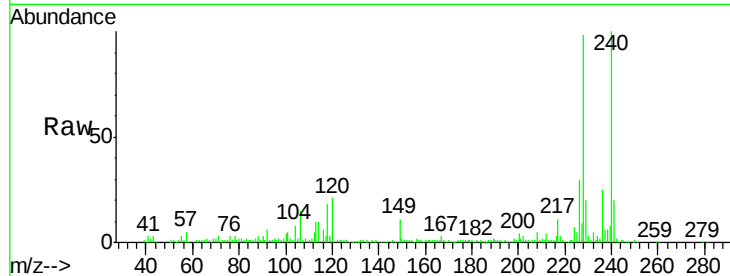
Tgt Ion:228 Resp: 147671

Ion Ratio Lower Upper

228 100

226 30.3 22.3 33.5

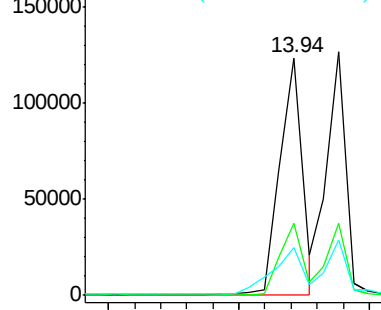
229 20.2 16.0 24.0



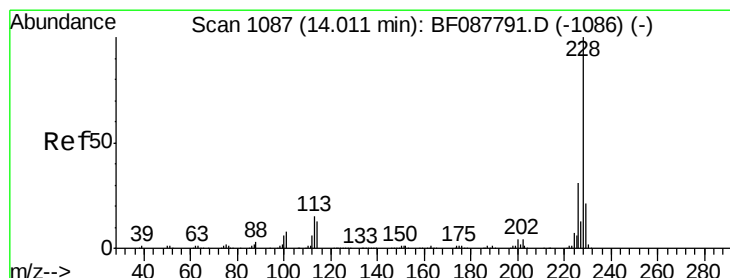
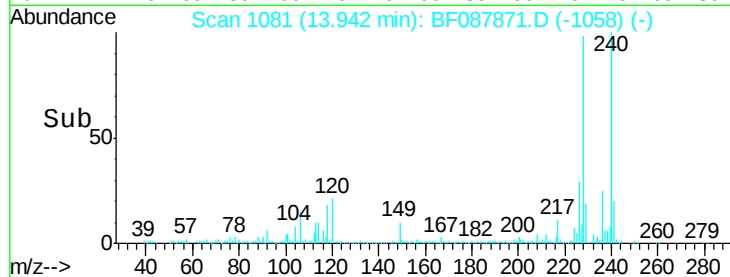
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#82

Chrysene

Concen: 10.16 ng

RT: 13.94 min Scan# 1081

Delta R.T. -0.07 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

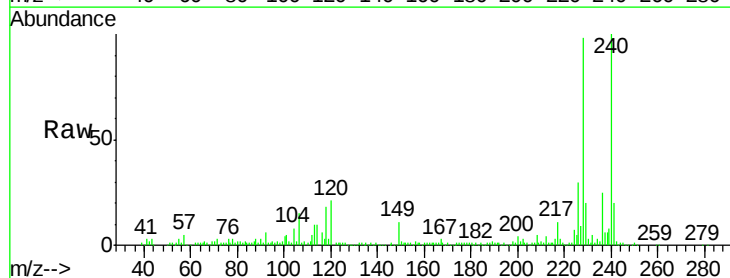
Tgt Ion:228 Resp: 147671

Ion Ratio Lower Upper

228 100

226 30.3 25.4 38.2

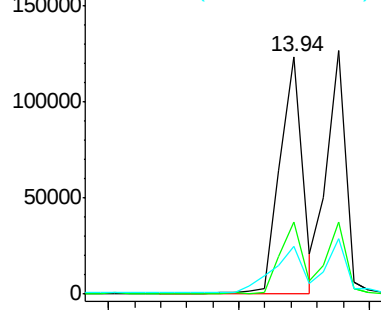
229 20.2 16.3 24.5



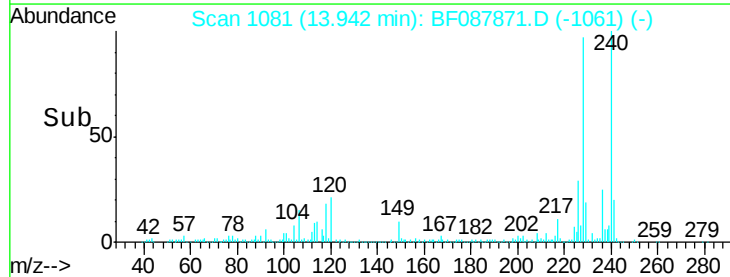
Abundance Ion 228.00 (227.70 to 228.70): E

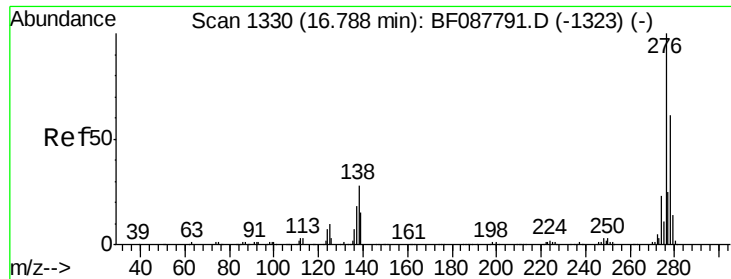
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->

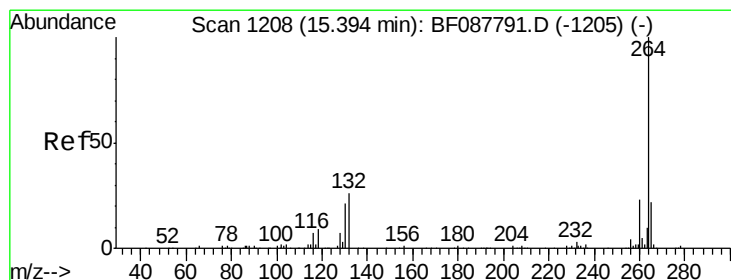
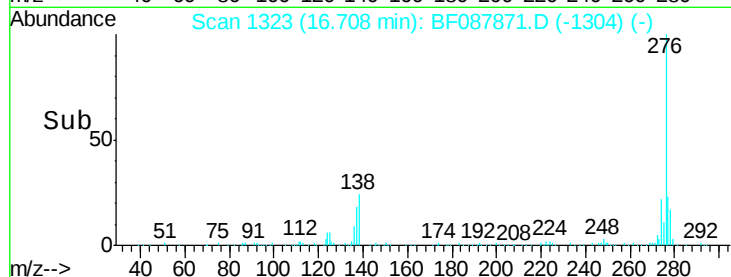
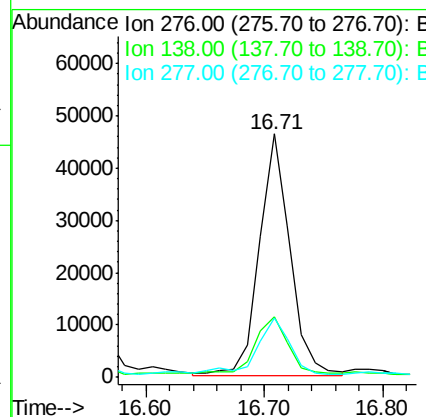
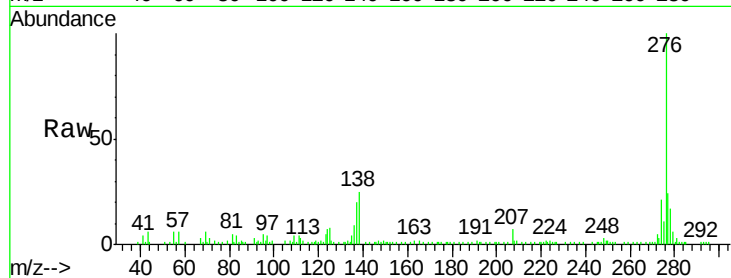




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.18 ng
 RT: 16.71 min Scan# 1323
 Delta R.T. -0.08 min
 Lab File: BF087871.D
 Acq: 10 Jun 2016 13:34

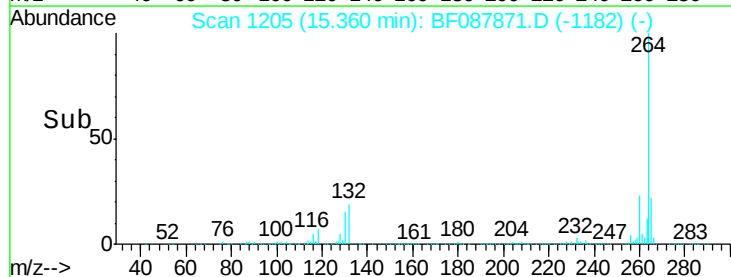
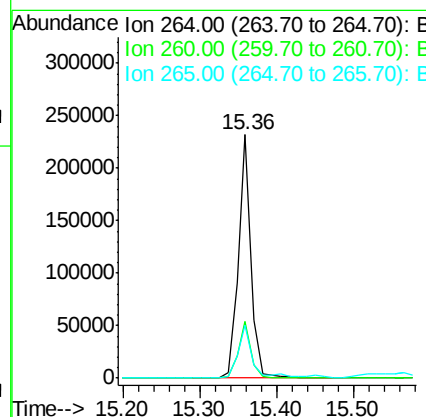
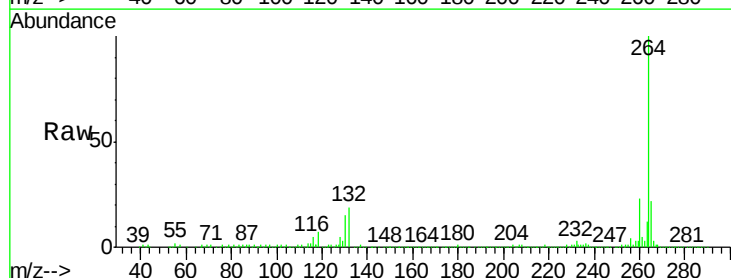
Instrument :
 BNA_F
 ClientSampleId :
 DUP-5

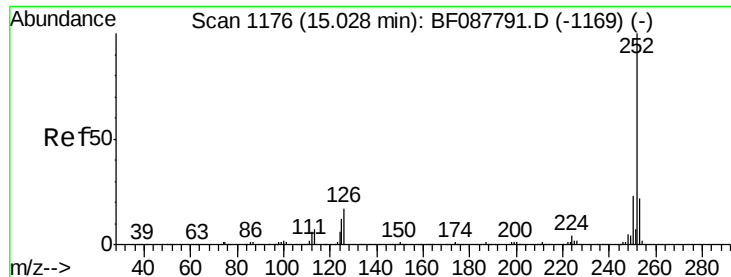
Tgt Ion: 276 Resp: 83428
 Ion Ratio Lower Upper
 276 100
 138 28.5 0.0 0.0#
 277 27.9 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.36 min Scan# 1205
 Delta R.T. -0.03 min
 Lab File: BF087871.D
 Acq: 10 Jun 2016 13:34

Tgt Ion: 264 Resp: 272054
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.2 28.8
 265 22.0 16.9 25.3





#87

Benzo(b)fluoranthene

Concen: 12.60 ng

RT: 14.96 min Scan# 1170

Delta R.T. -0.03 min

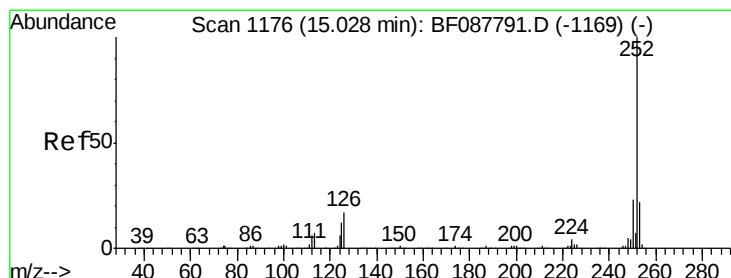
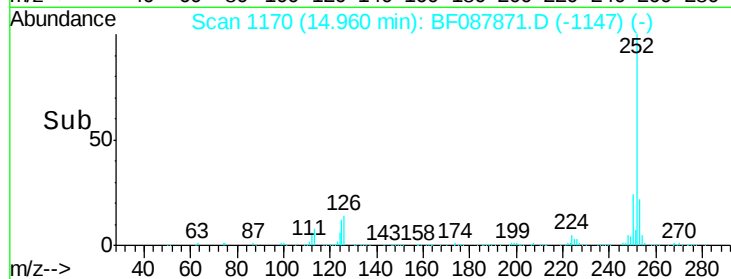
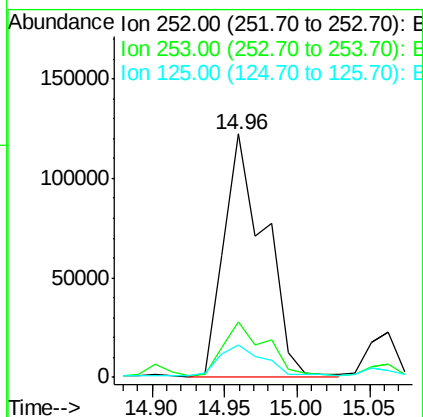
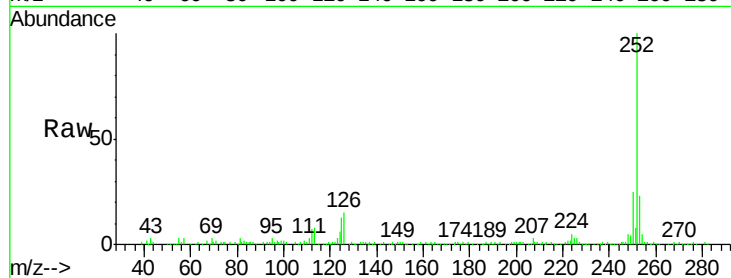
Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :
BNA_F
ClientSampleId :
DUP-5

Tgt Ion:252 Resp: 238947

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.2
125	13.3	7.1	10.7#



#88

Benzo(k)fluoranthene

Concen: 16.71 ng

RT: 14.96 min Scan# 1170

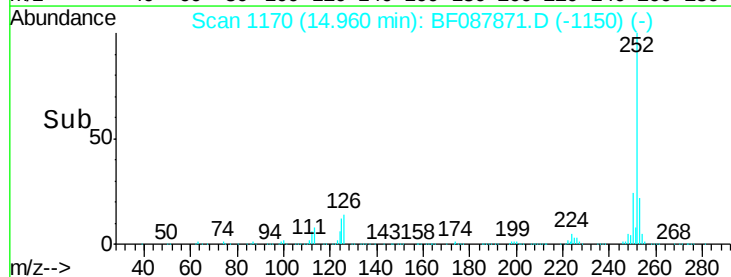
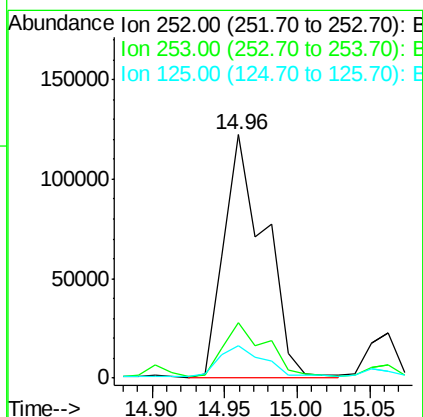
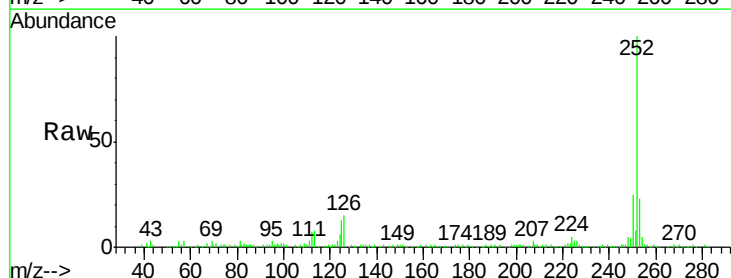
Delta R.T. -0.07 min

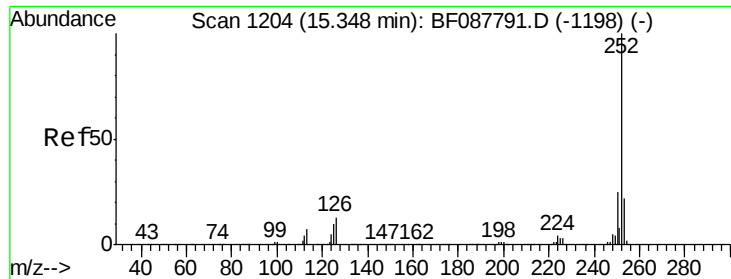
Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Tgt Ion:252 Resp: 238947

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	13.3	11.2	16.8





#89

Benzo(a)pyrene

Concen: 8.37 ng

RT: 15.30 min Scan# 1200

Delta R.T. -0.05 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

Instrument :

BNA_F

ClientSampleId :

DUP-5

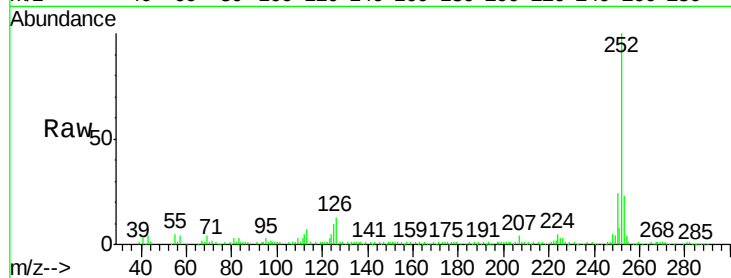
Tgt Ion: 252 Resp: 128462

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

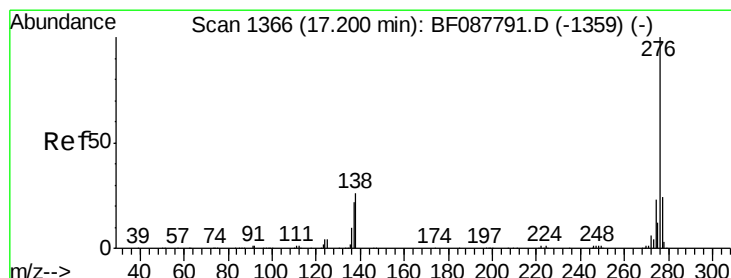
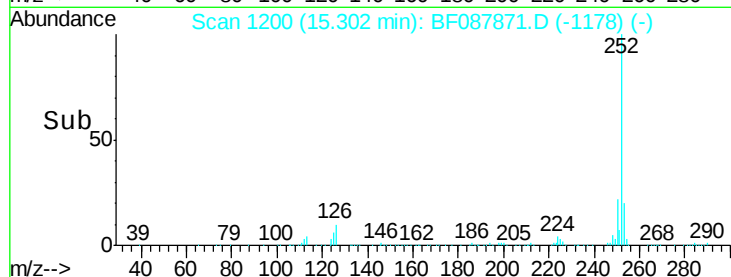
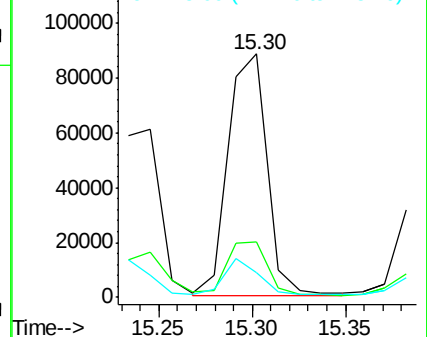
125 10.3 12.5 18.7#



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



#91

Benzo(g,h,i)perylene

Concen: 5.16 ng

RT: 17.12 min Scan# 1359

Delta R.T. -0.08 min

Lab File: BF087871.D

Acq: 10 Jun 2016 13:34

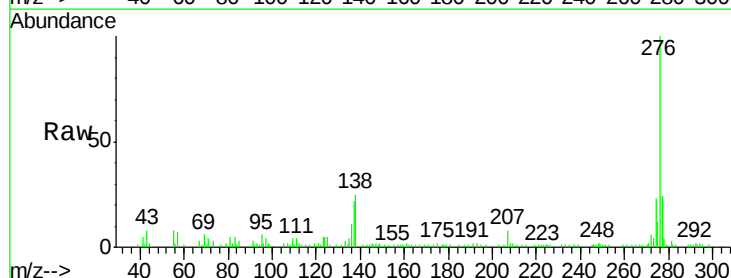
Tgt Ion: 276 Resp: 75596

Ion Ratio Lower Upper

276 100

277 24.5 18.9 28.3

138 25.0 21.4 32.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

