

Data Path : S:\HPCHEM1\BNA_F\DATA\BF060916\
 Data File : BF087857.D
 Acq On : 9 Jun 2016 17:28
 Operator : UM/SJ
 Sample : H3399-02 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-1

Quant Time: Jun 09 18:07:10 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	6.82	152	121267	20.00	ng	-0.02
21) Naphthalene-d8	8.10	136	428375	20.00	ng	-0.02
38) Acenaphthene-d10	9.85	164	200166	20.00	ng	-0.03
63) Phenanthrene-d10	11.32	188	310570	20.00	ng	-0.03
75) Chrysene-d12	13.95	240	244771	20.00	ng	-0.03
86) Perylene-d12	15.36	264	211855	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	167164	23.57	ng	-0.02
7) Phenol-d6	6.44	99	223859	26.04	ng	-0.03
23) Nitrobenzene-d5	7.38	82	115249	15.71	ng	-0.03
41) 2,4,6-Tribromophenol	10.64	330	43000	20.35	ng	-0.03
44) 2-Fluorobiphenyl	9.18	172	262973	16.15	ng	-0.03
78) Terphenyl-d14	12.91	244	157311	14.62	ng	-0.03

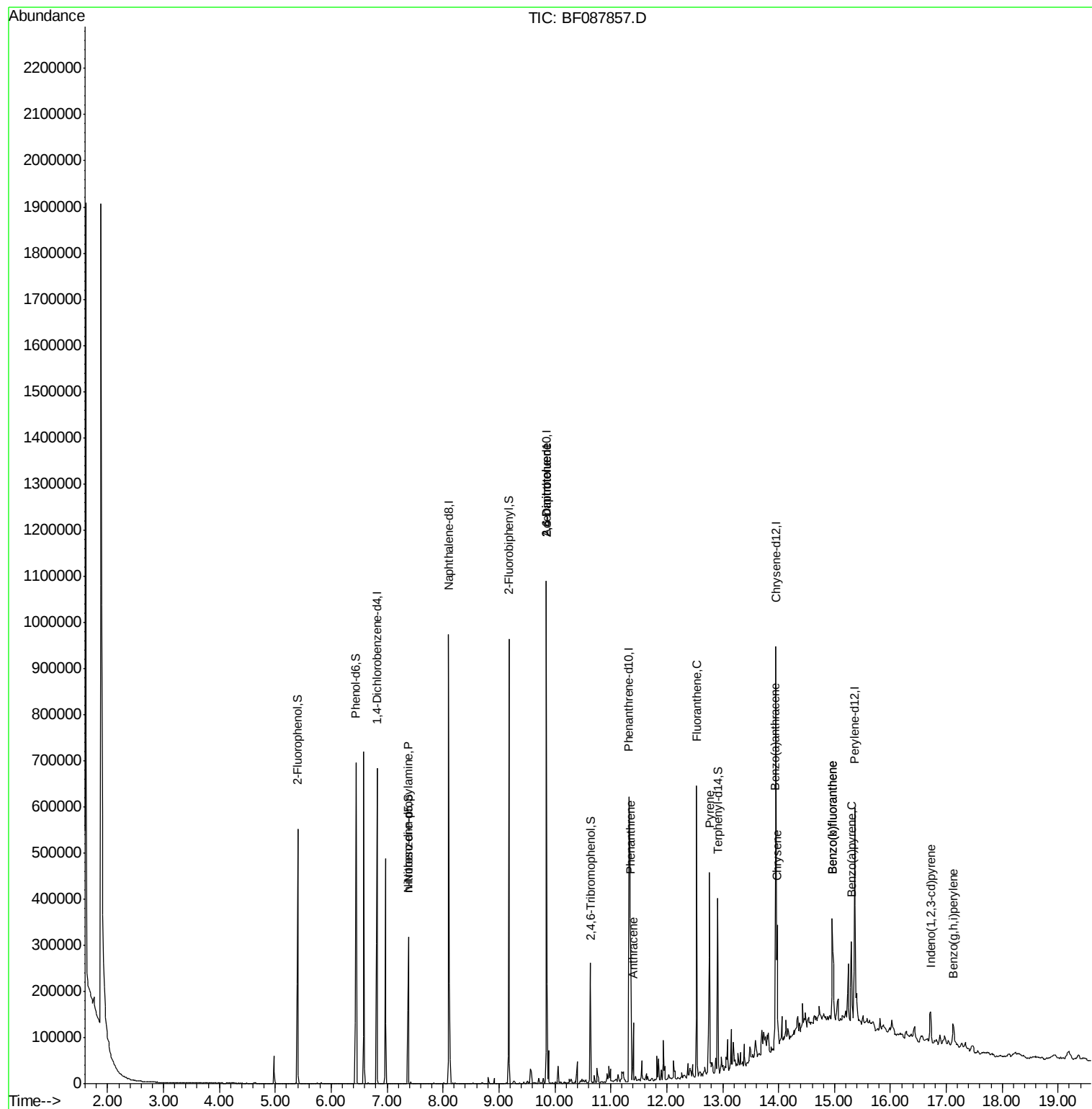
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.46	94	1080	Below Cal		78
19) n-Nitroso-di-n-propylamine	7.38	70	14360	2.61 ng	#	72
45) 1,1'-Biphenyl	9.28	154	1896	Below Cal		90
50) 2,6-Dinitrotoluene	9.85	165	26423	7.96 ng	#	39
56) 2,4-Dinitrotoluene	9.85	165	26424	6.19 ng	#	38
57) Fluorene	10.40	166	15802	Below Cal		100
70) Phenanthrene	11.35	178	174586	10.71 ng		99
71) Anthracene	11.40	178	50387	3.07 ng		98
74) Fluoranthene	12.54	202	236751	13.77 ng		96
77) Pyrene	12.77	202	206749	11.38 ng		98
80) Benzo(a)anthracene	13.94	228	125613	9.01 ng		99
82) Chrysene	13.98	228	83441	6.36 ng		96
85) Indeno(1,2,3-cd)pyrene	16.72	276	42296	3.47 ng	#	100
87) Benzo(b)fluoranthene	14.96	252	150102	10.17 ng	#	93
88) Benzo(k)fluoranthene	14.96	252	150102	13.48 ng		98
89) Benzo(a)pyrene	15.30	252	77952	6.52 ng		96
91) Benzo(g,h,i)perylene	17.12	276	40343	3.53 ng		98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 458

Delta R.T. -0.02 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

Instrument :

BNA_F

ClientSampled :

DUP-1

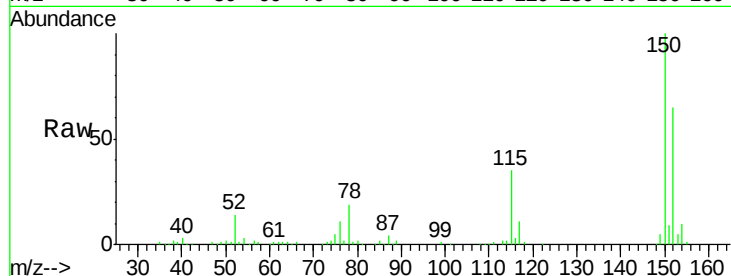
Tgt Ion:152 Resp: 121267

Ion Ratio Lower Upper

152 100

150 153.6 123.8 185.6

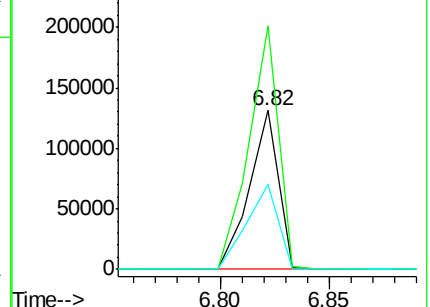
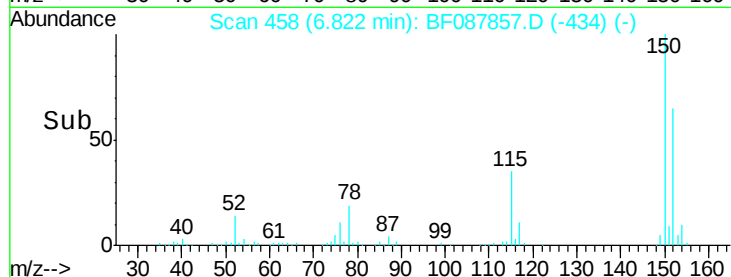
115 53.6 39.6 59.4



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: 23.57 ng

RT: 5.40 min Scan# 334

Delta R.T. -0.02 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

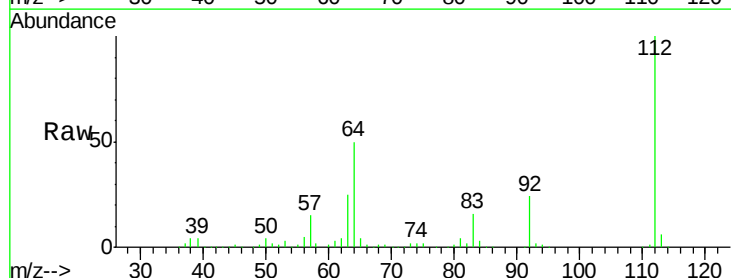
Tgt Ion:112 Resp: 167164

Ion Ratio Lower Upper

112 100

64 49.8 42.2 63.2

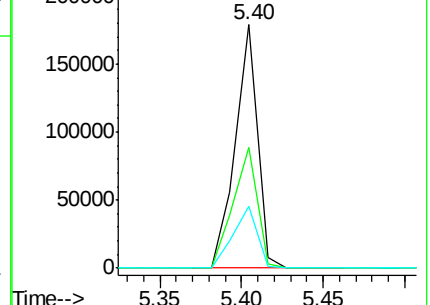
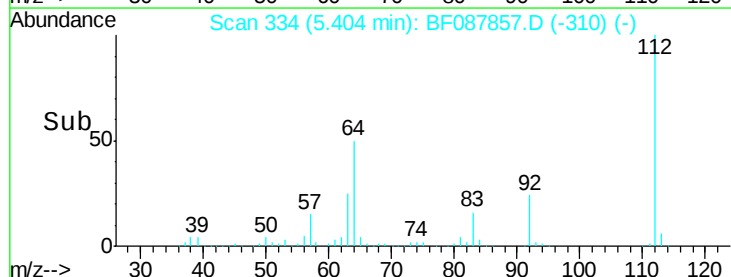
63 25.4 21.8 32.8



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: 26.04 ng

RT: 6.44 min Scan# 425

Delta R.T. -0.03 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

Instrument :

BNA_F

ClientSampleId :

DUP-1

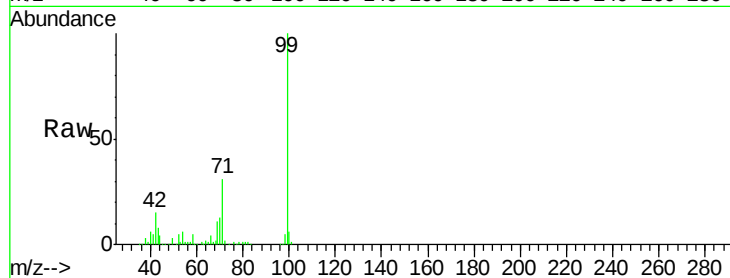
Tgt Ion: 99 Resp: 223859

Ion Ratio Lower Upper

99 100

42 15.3 12.2 18.2

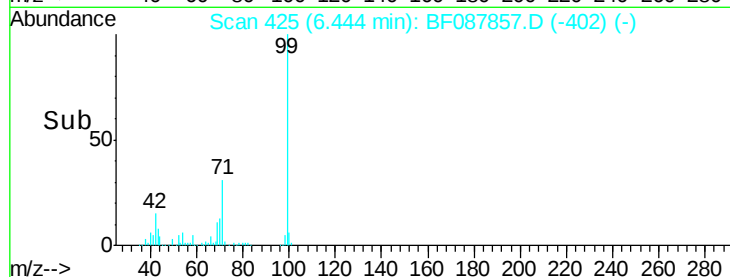
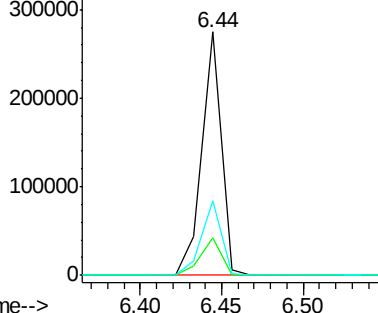
71 30.6 23.4 35.0



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



#10

Phenol

Concen: Below Cal

RT: 6.46 min Scan# 426

Delta R.T. -0.03 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

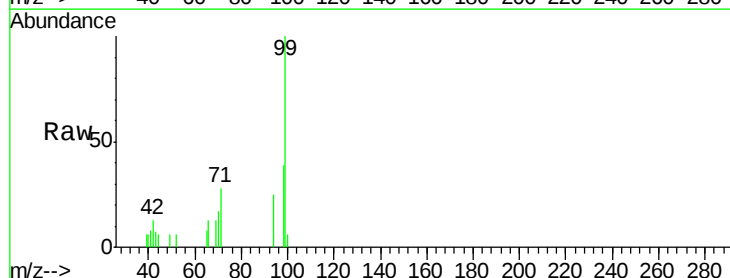
Tgt Ion: 94 Resp: 1080

Ion Ratio Lower Upper

94 100

65 31.8 5.9 45.9

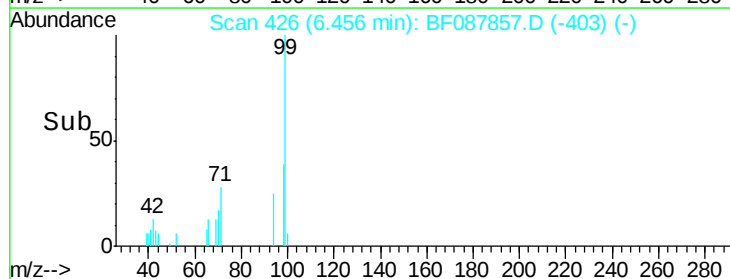
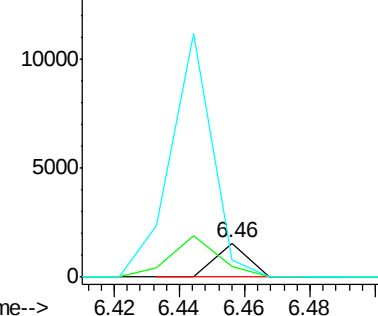
66 51.3 14.0 54.0



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

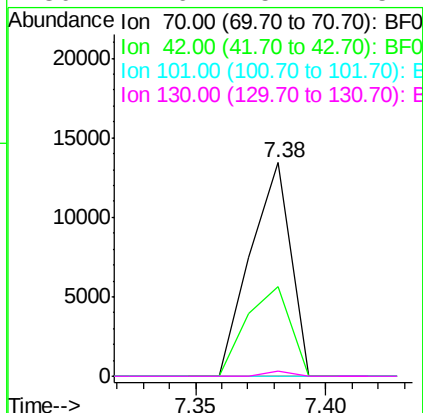
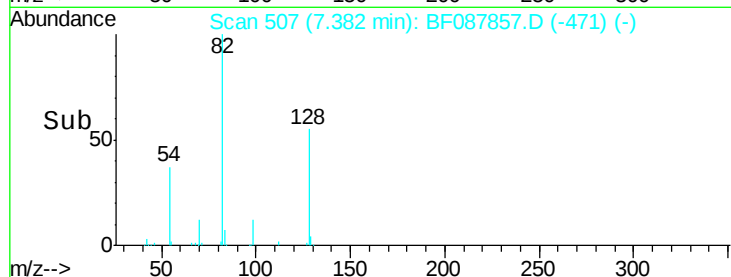
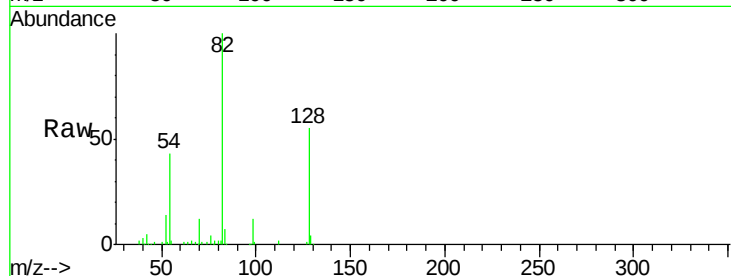




#19
n-Nitroso-di-n-propylamine
Concen: 2.61 ng
RT: 7.38 min Scan# 507
Delta R.T. 0.11 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

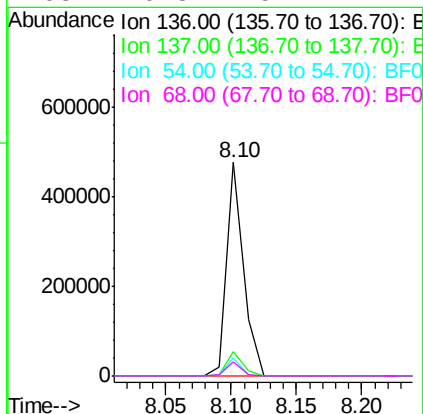
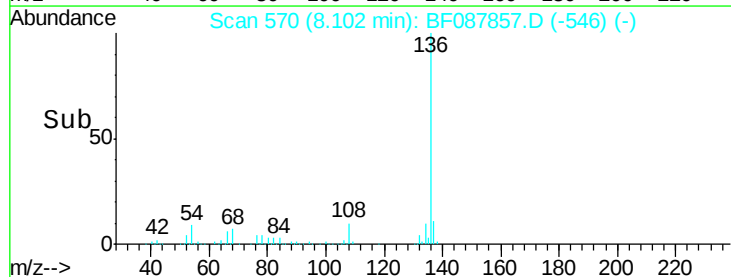
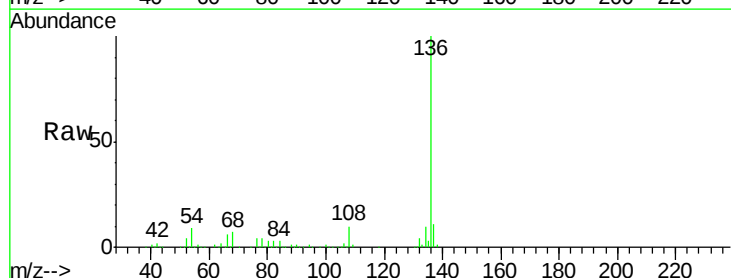
Instrument :
BNA_F
ClientSampleId :
DUP-1

Tgt Ion: 70 Resp: 14360
Ion Ratio Lower Upper
70 100
42 41.9 49.6 74.4#
101 0.0 7.1 10.7#
130 2.6 15.4 23.2#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.10 min Scan# 570
Delta R.T. -0.02 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

Tgt Ion: 136 Resp: 428375
Ion Ratio Lower Upper
136 100
137 11.4 9.1 13.7
54 8.6 6.6 10.0
68 6.8 5.1 7.7





#23

Nitrobenzene-d5

Concen: 15.71 ng

RT: 7.38 min Scan# 507

Delta R.T. -0.03 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

Instrument :

BNA_F

ClientSampleId :

DUP-1

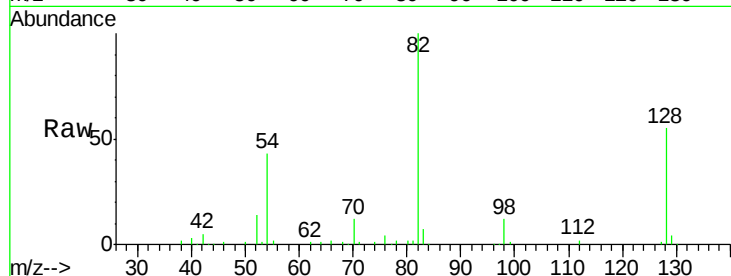
Tgt Ion: 82 Resp: 115249

Ion Ratio Lower Upper

82 100

128 54.6 35.9 53.9#

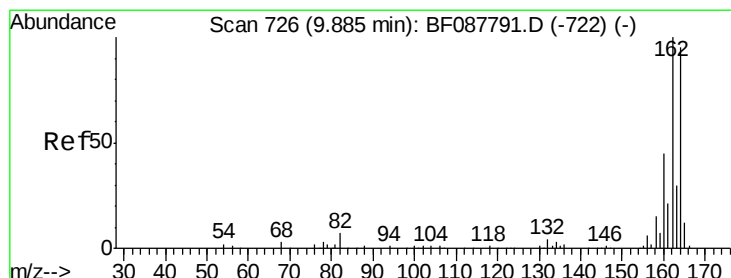
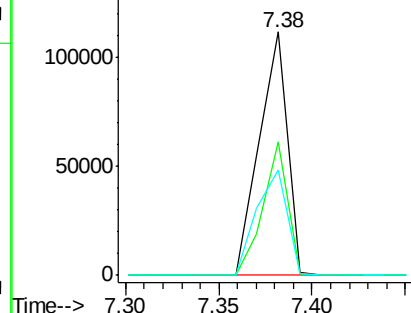
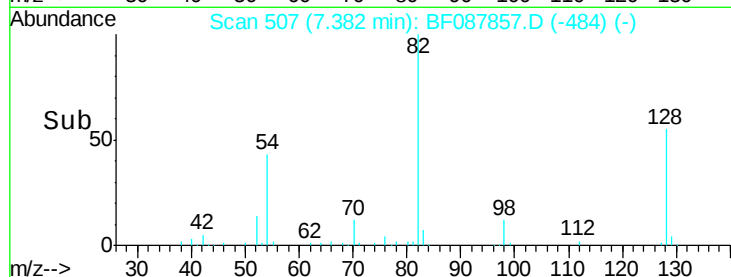
54 43.3 40.9 61.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 723

Delta R.T. -0.03 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

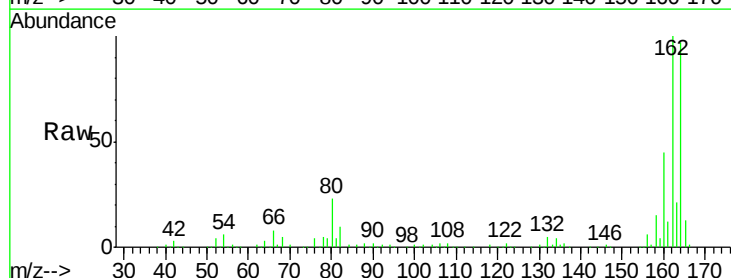
Tgt Ion:164 Resp: 200166

Ion Ratio Lower Upper

164 100

162 103.4 85.4 128.2

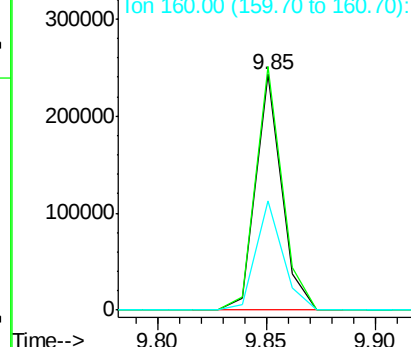
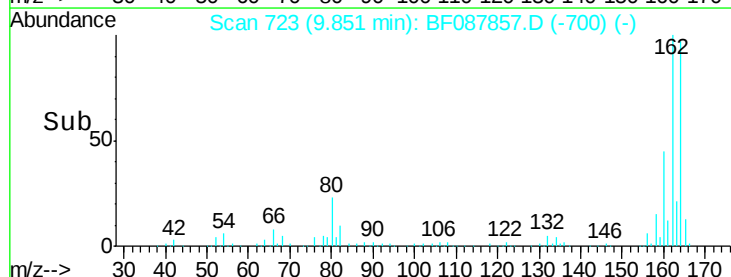
160 46.1 39.5 59.3



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

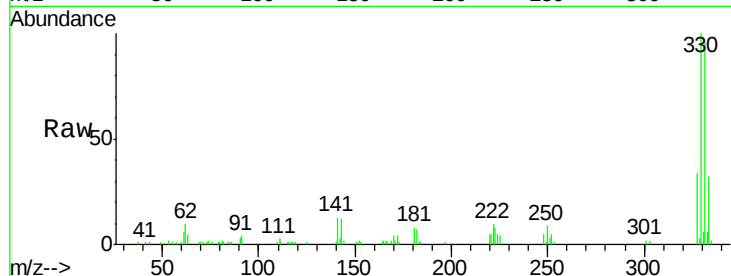




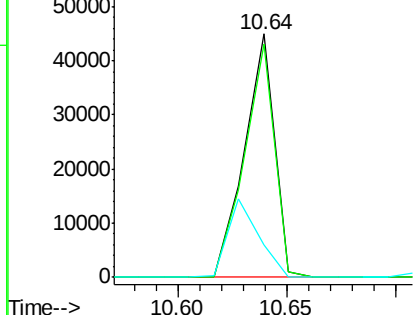
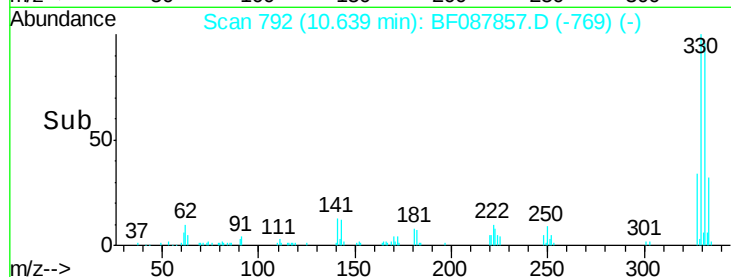
#41
 2,4,6-Tribromophenol
 Concen: 20.35 ng
 RT: 10.64 min Scan# 792
 Delta R.T. -0.03 min
 Lab File: BF087857.D
 Acq: 9 Jun 2016 17:28

Instrument :
 BNA_F
 ClientSampleId :
 DUP-1

Tgt Ion:330 Resp: 43000
 Ion Ratio Lower Upper
 330 100
 332 96.0 0.0 0.0#
 141 33.2 0.0 0.0#

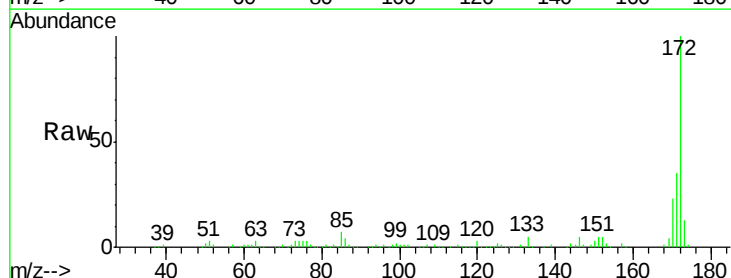


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

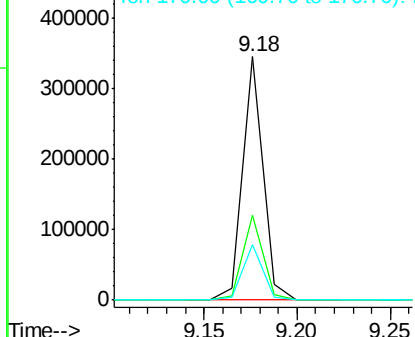
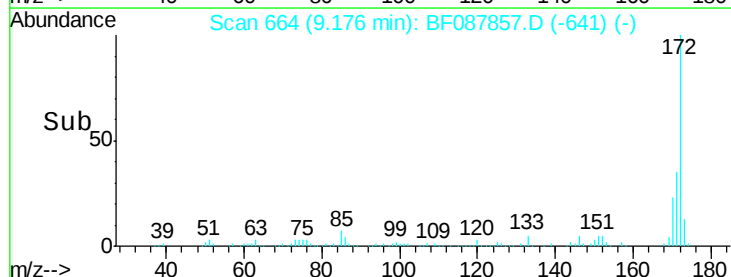


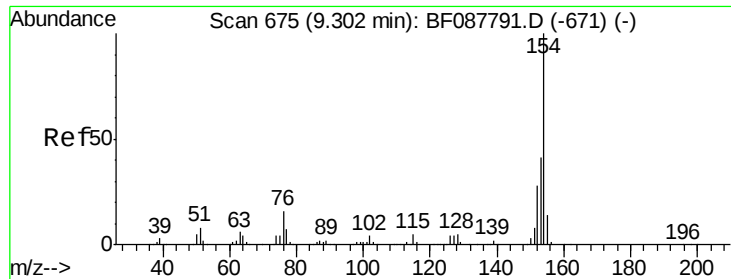
#44
 2-Fluorobiphenyl
 Concen: 16.15 ng
 RT: 9.18 min Scan# 664
 Delta R.T. -0.03 min
 Lab File: BF087857.D
 Acq: 9 Jun 2016 17:28

Tgt Ion:172 Resp: 262973
 Ion Ratio Lower Upper
 172 100
 171 34.9 28.6 43.0
 170 23.0 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

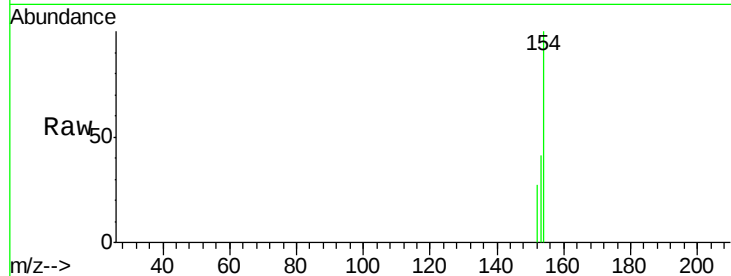




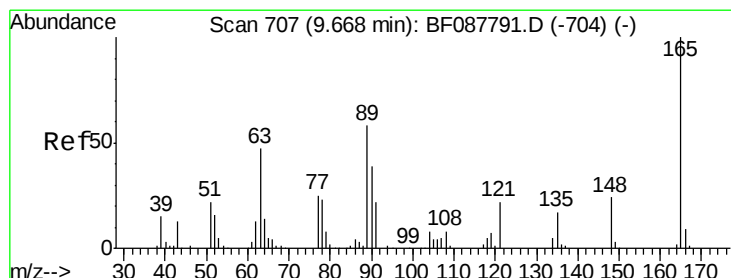
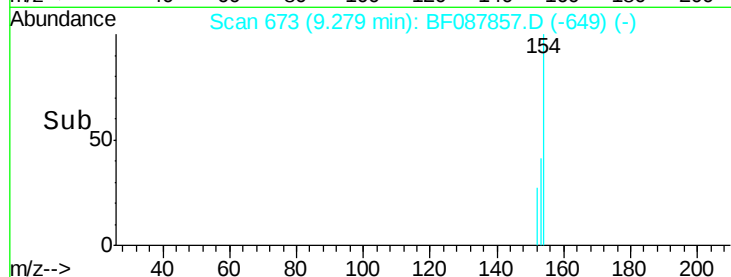
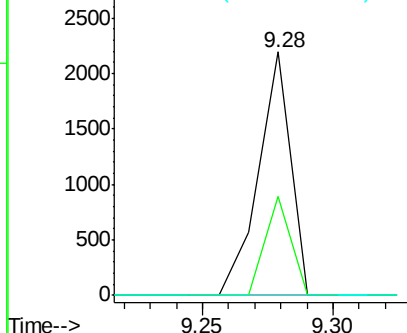
#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.28 min Scan# 673
 Delta R.T. -0.02 min
 Lab File: BF087857.D
 Acq: 9 Jun 2016 17:28

Instrument :
 BNA_F
 ClientSampled :
 DUP-1

Tgt Ion:154 Resp: 1896
 Ion Ratio Lower Upper
 154 100
 153 40.6 20.6 60.6
 76 0.0 0.0 35.1

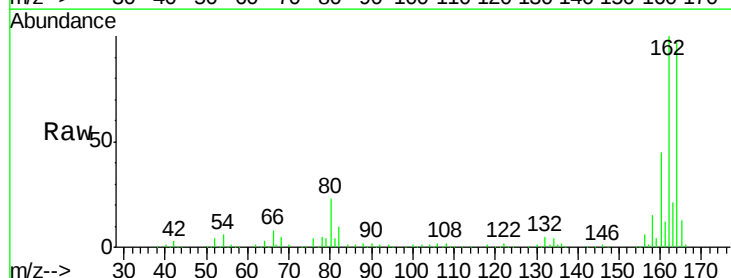


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

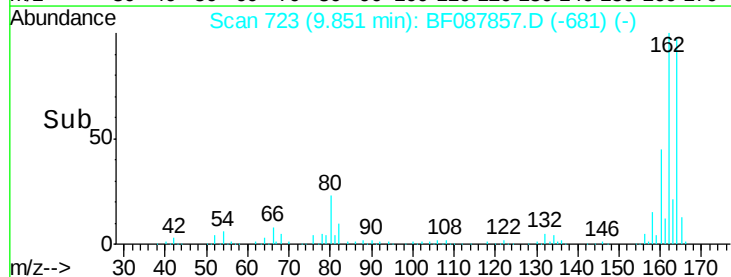
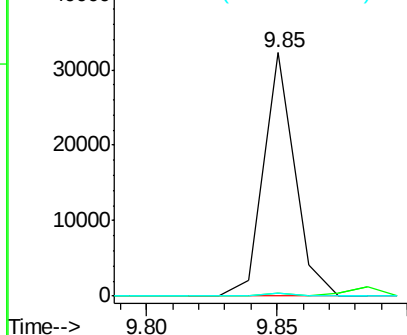


#50
 2,6-Dinitrotoluene
 Concen: 7.96 ng
 RT: 9.85 min Scan# 723
 Delta R.T. 0.18 min
 Lab File: BF087857.D
 Acq: 9 Jun 2016 17:28

Tgt Ion:165 Resp: 26423
 Ion Ratio Lower Upper
 165 100
 63 1.2 28.1 42.1#
 89 1.4 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

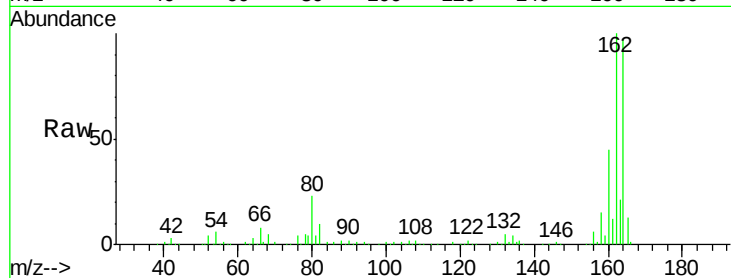




#56
2,4-Dinitrotoluene
Concen: 6.19 ng
RT: 9.85 min Scan# 723
Delta R.T. -0.22 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

Instrument :
BNA_F
ClientSampled :
DUP-1

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	22.0	33.0#
89	1.4	41.1	61.7#
182	0.0	2.0	3.0#

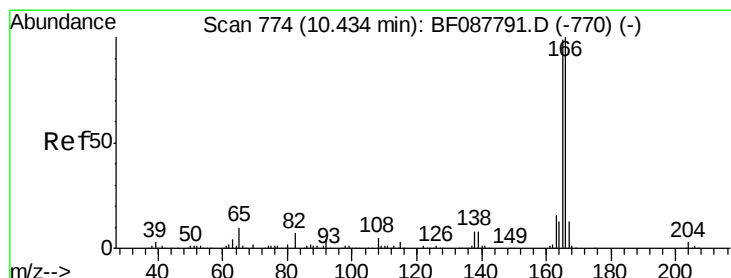
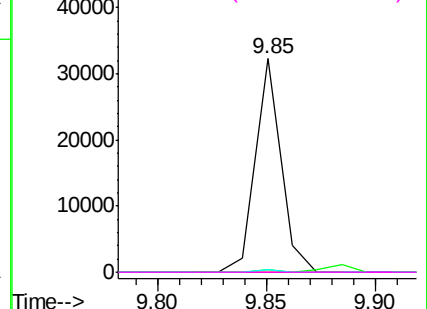
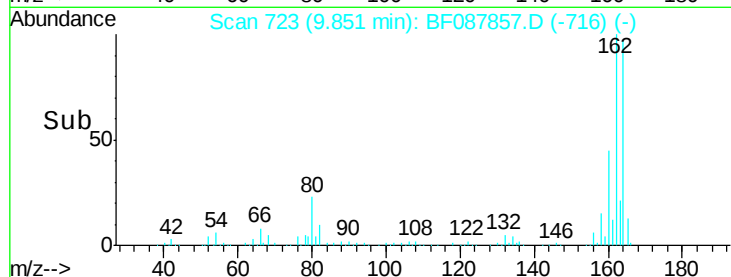


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

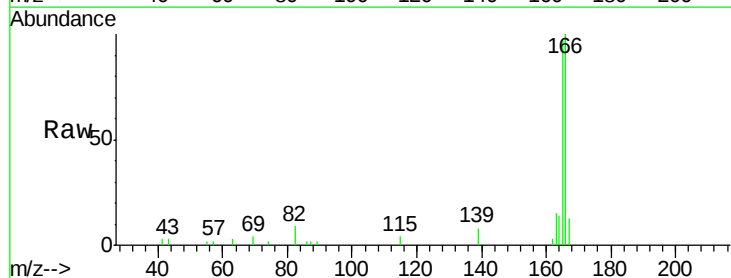
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: Below Cal
RT: 10.40 min Scan# 771
Delta R.T. -0.03 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

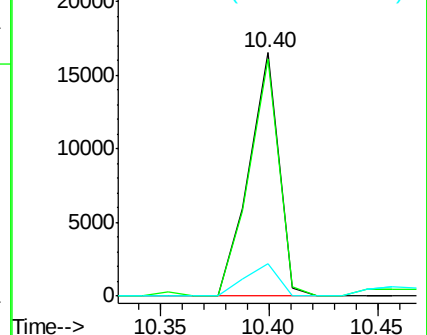
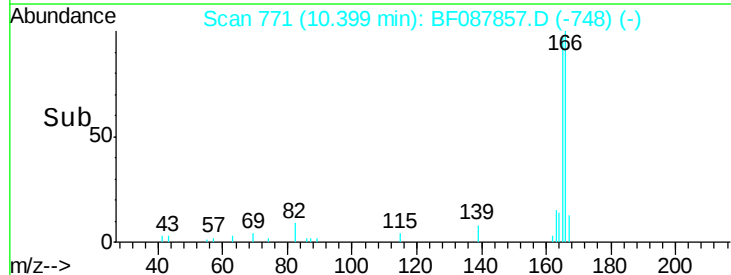
Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.3	77.8	116.8
167	13.4	11.2	16.8

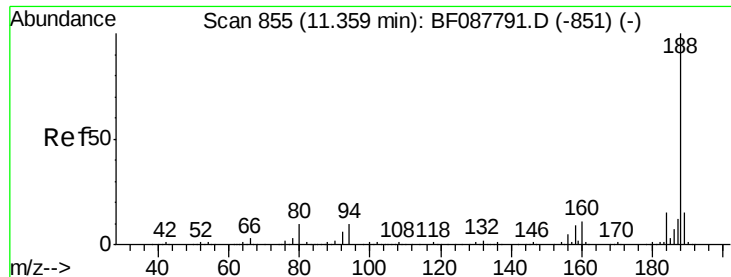


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

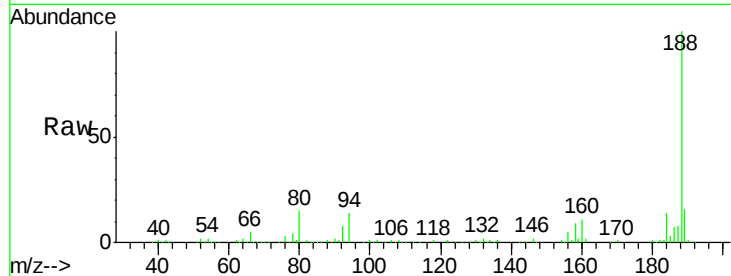




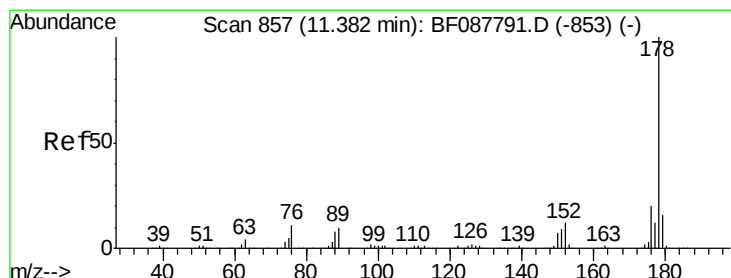
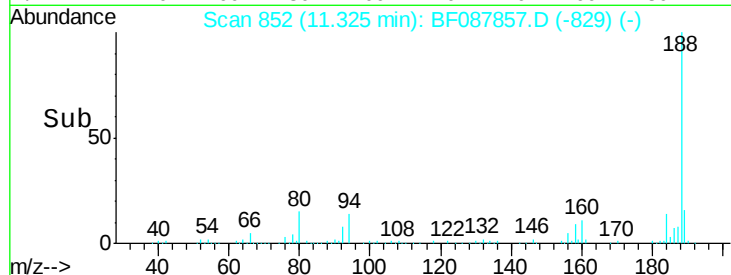
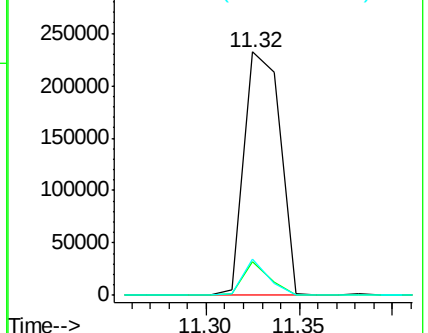
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.32 min Scan# 852
Delta R.T. -0.03 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

Instrument :
BNA_F
ClientSampleId :
DUP-1

Tgt Ion:188 Resp: 310570
Ion Ratio Lower Upper
188 100
94 13.8 9.0 13.6#
80 15.1 10.0 15.0#

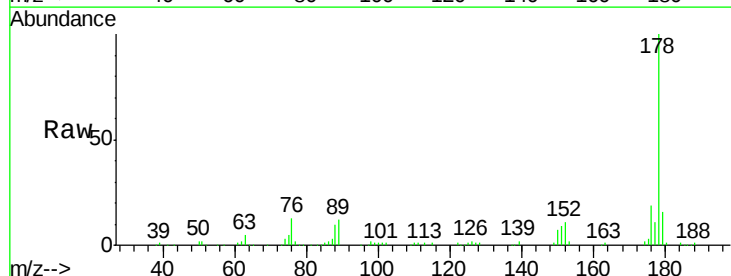


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

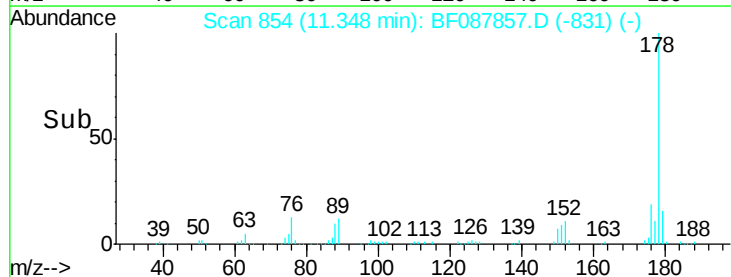
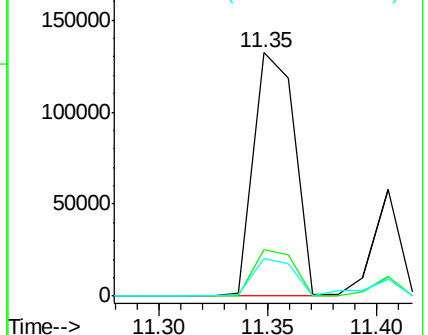


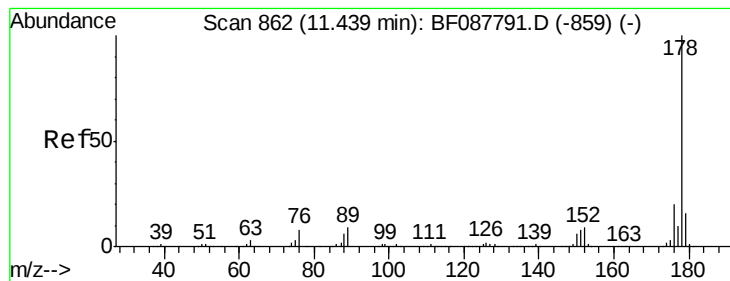
#70
Phenanthrene
Concen: 10.71 ng
RT: 11.35 min Scan# 854
Delta R.T. -0.03 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

Tgt Ion:178 Resp: 174586
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.6
179 15.6 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: 11.40 min Scan# 859

Delta R.T. -0.03 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

Instrument :

BNA_F

ClientSampleId :

DUP-1

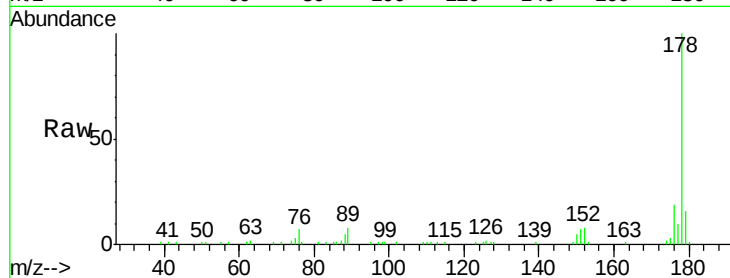
Tgt Ion:178 Resp: 50387

Ion Ratio Lower Upper

178 100

176 18.7 15.6 23.4

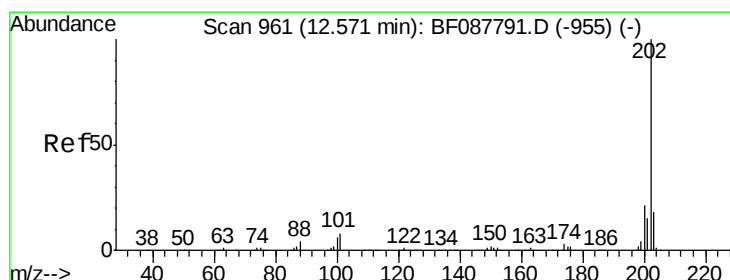
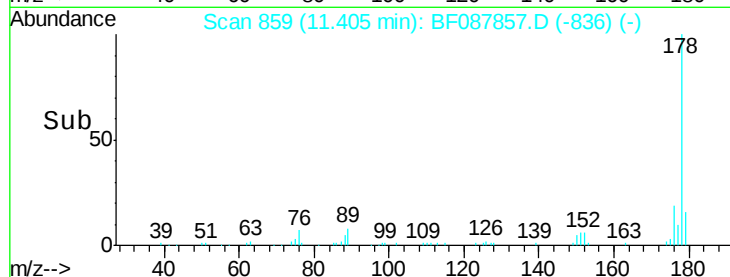
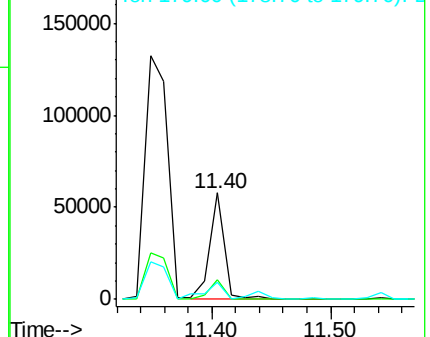
179 15.5 12.8 19.2



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: 13.77 ng

RT: 12.54 min Scan# 958

Delta R.T. -0.03 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

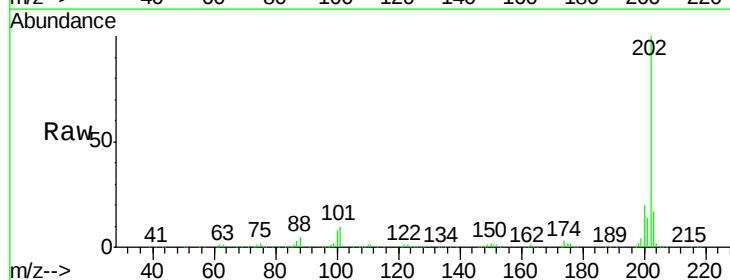
Tgt Ion:202 Resp: 236751

Ion Ratio Lower Upper

202 100

101 10.5 0.0 33.1

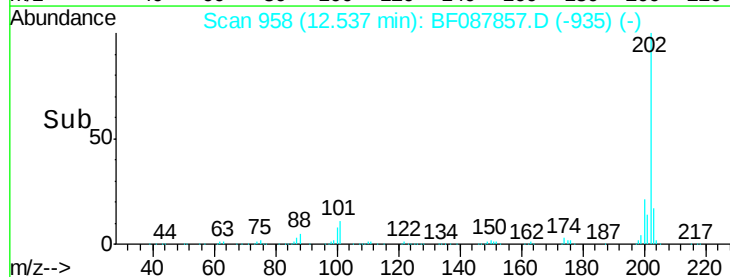
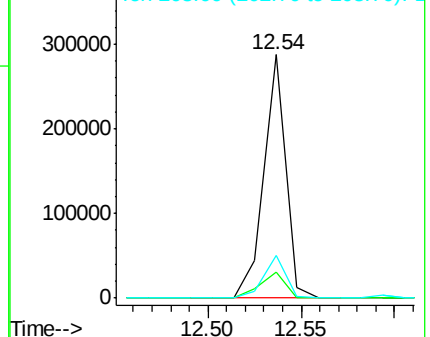
203 17.3 0.0 38.1

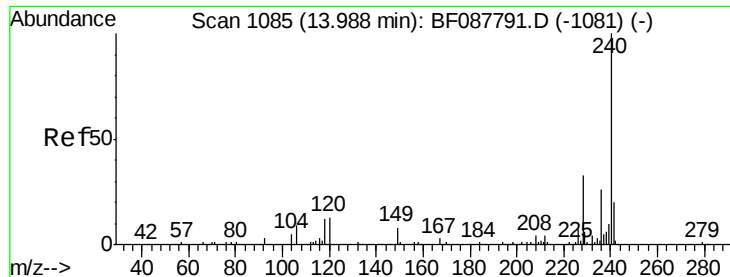


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF087857.D

Acq: 9 Jun 2016 17:28

Instrument :

BNA_F

ClientSampleId :

DUP-1

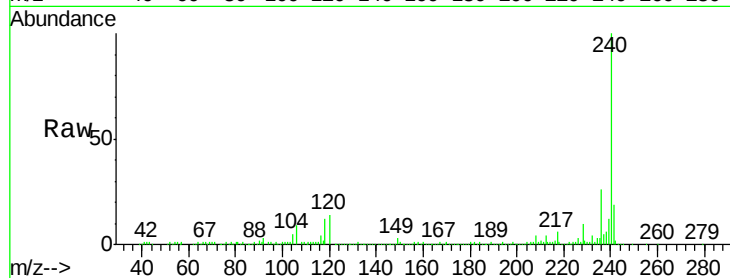
Tgt Ion:240 Resp: 244771

Ion Ratio Lower Upper

240 100

120 13.9 6.8 10.2#

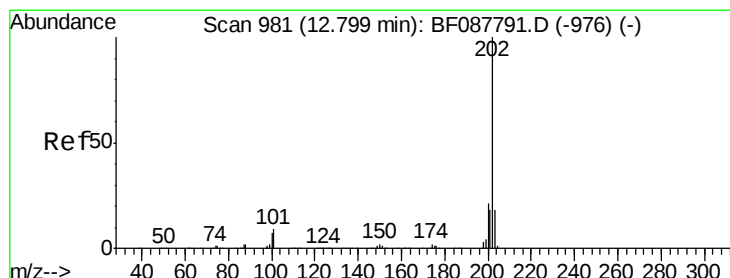
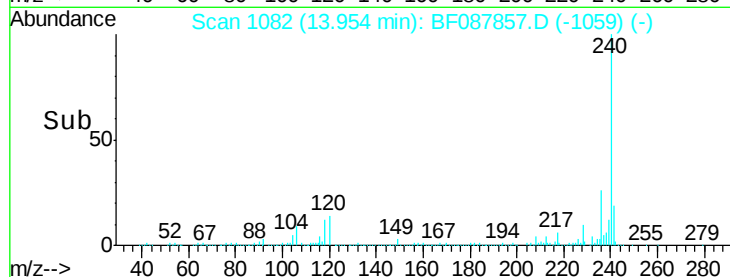
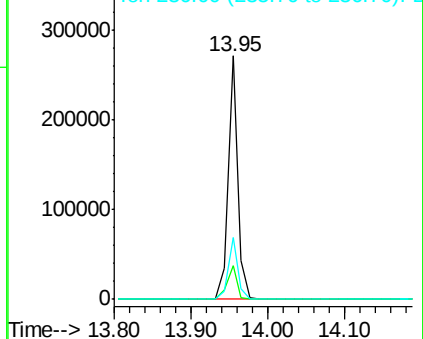
236 25.7 20.2 30.2



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: 11.38 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

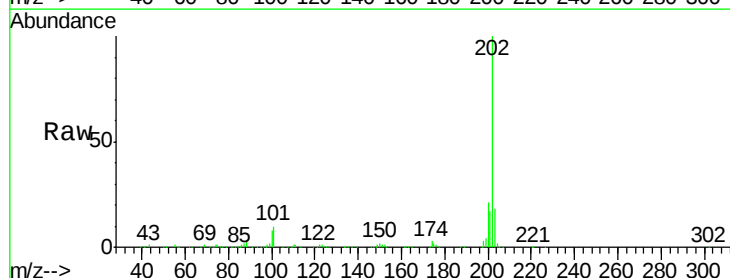
Tgt Ion:202 Resp: 206749

Ion Ratio Lower Upper

202 100

200 20.6 17.4 26.2

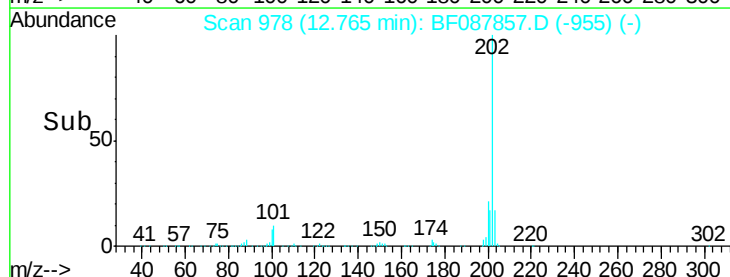
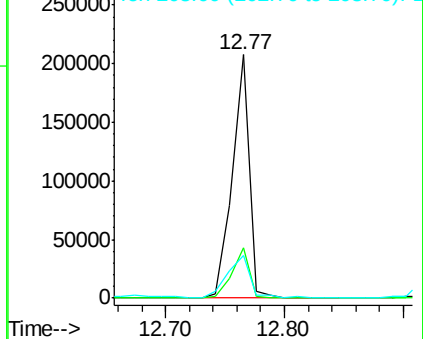
203 17.5 14.5 21.7

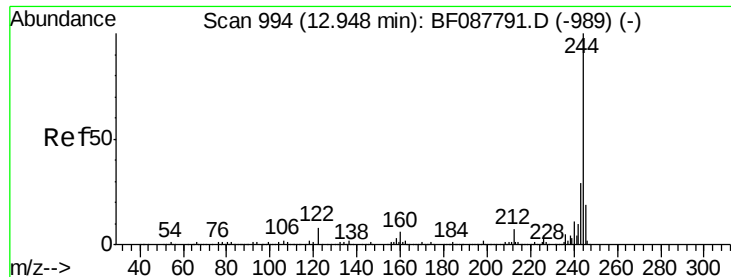


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

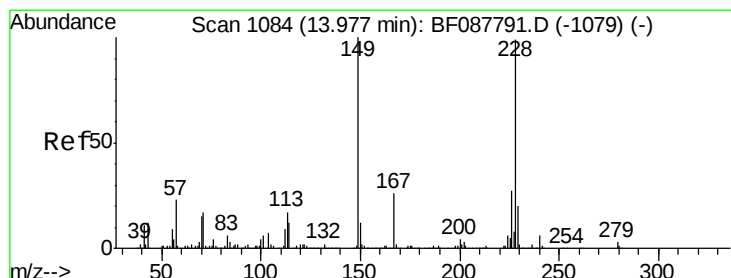
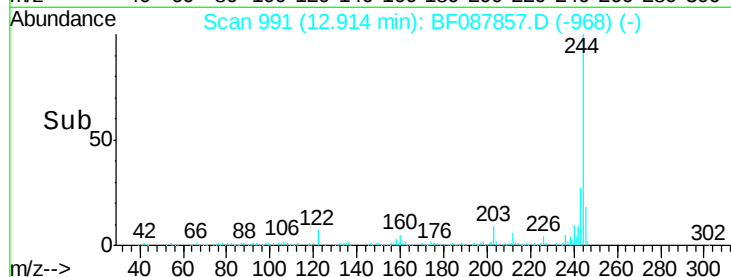
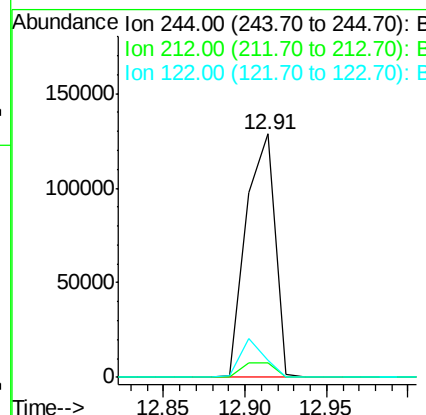
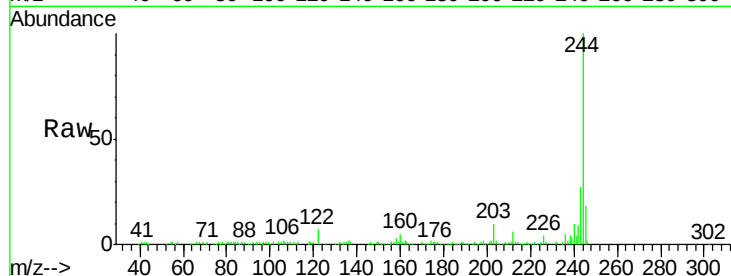




#78
 Terphenyl-d14
 Concen: 14.62 ng
 RT: 12.91 min Scan# 991
 Delta R.T. -0.03 min
 Lab File: BF087857.D
 Acq: 9 Jun 2016 17:28

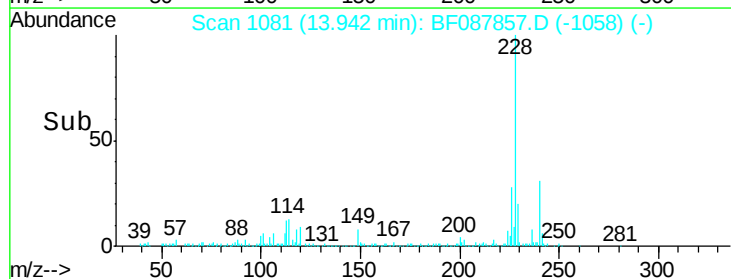
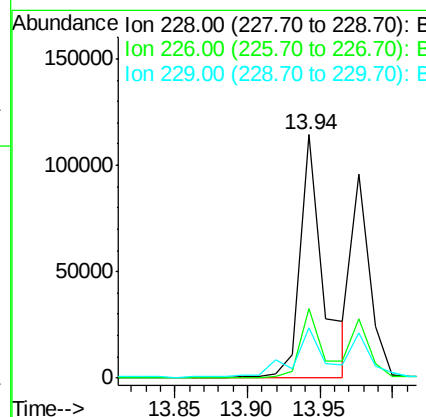
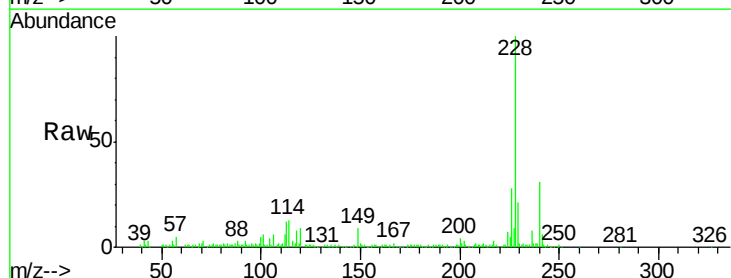
Instrument :
 BNA_F
 ClientSampleId :
 DUP-1

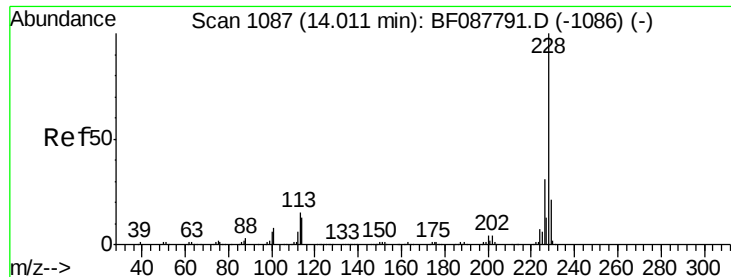
Tgt Ion:244 Resp: 157311
 Ion Ratio Lower Upper
 244 100
 212 5.8 6.0 9.0#
 122 7.0 11.2 16.8#



#80
 Benzo(a)anthracene
 Concen: 9.01 ng
 RT: 13.94 min Scan# 1081
 Delta R.T. -0.03 min
 Lab File: BF087857.D
 Acq: 9 Jun 2016 17:28

Tgt Ion:228 Resp: 125613
 Ion Ratio Lower Upper
 228 100
 226 28.4 22.3 33.5
 229 20.6 16.0 24.0





#82

Chrysene

Concen: 6.36 ng

RT: 13.98 min Scan# 1084

Delta R.T. -0.03 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

Instrument :

BNA_F

ClientSampled :

DUP-1

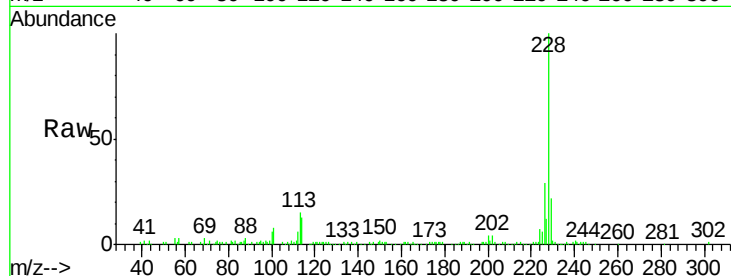
Tgt Ion:228 Resp: 83441

Ion Ratio Lower Upper

228 100

226 29.3 25.4 38.2

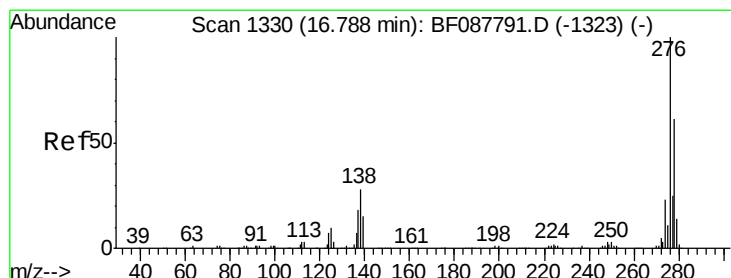
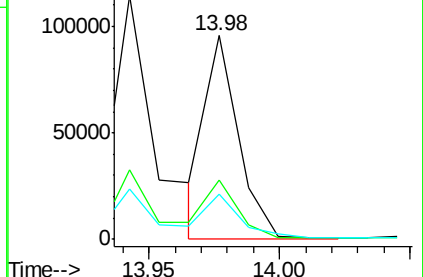
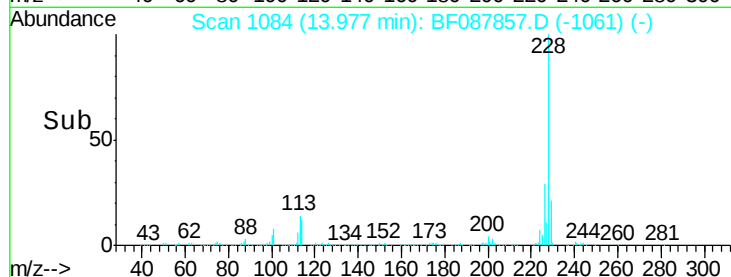
229 22.4 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.47 ng

RT: 16.72 min Scan# 1324

Delta R.T. -0.07 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

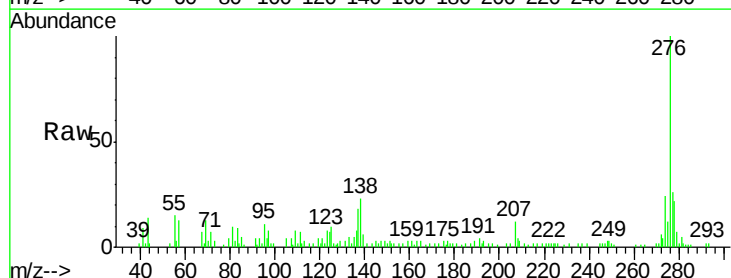
Tgt Ion:276 Resp: 42296

Ion Ratio Lower Upper

276 100

138 27.7 0.0 0.0#

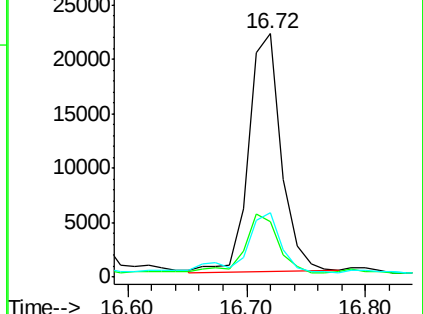
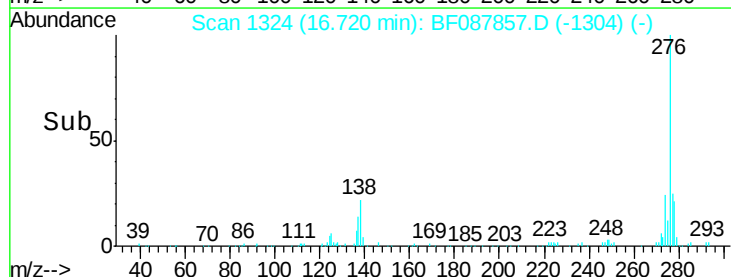
277 35.3 0.0 0.0#

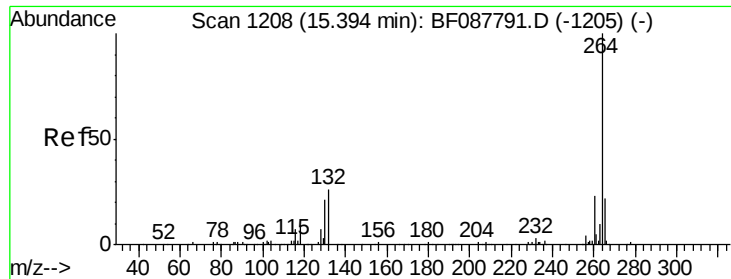


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



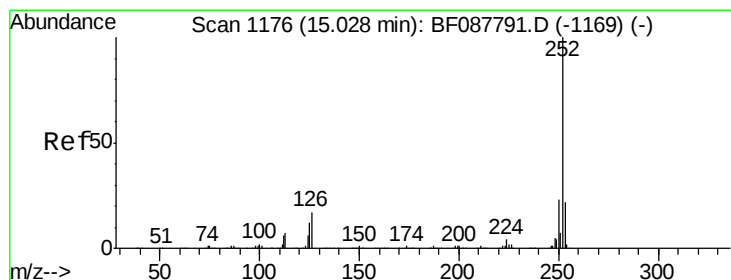
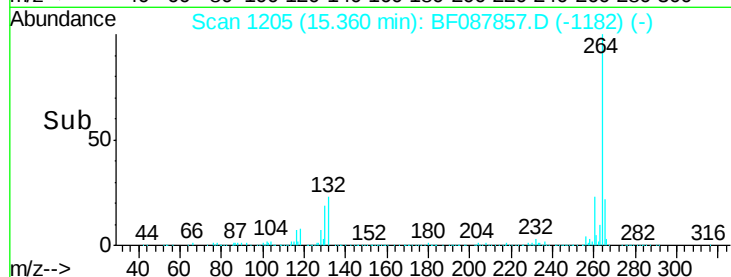
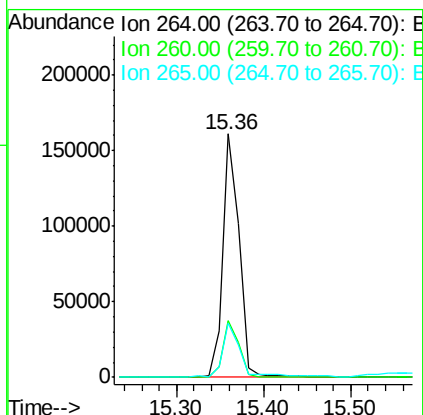
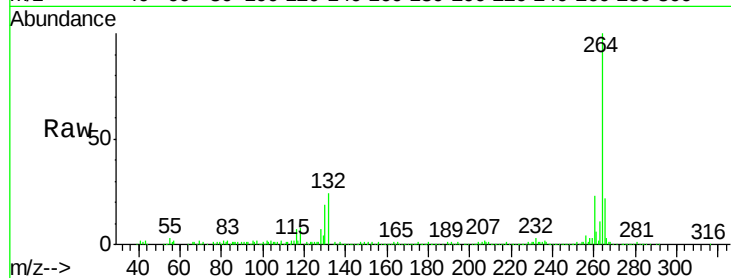


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 1205
Delta R.T. -0.03 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

Instrument :
BNA_F
ClientSampleId :
DUP-1

Tgt Ion:264 Resp: 211855

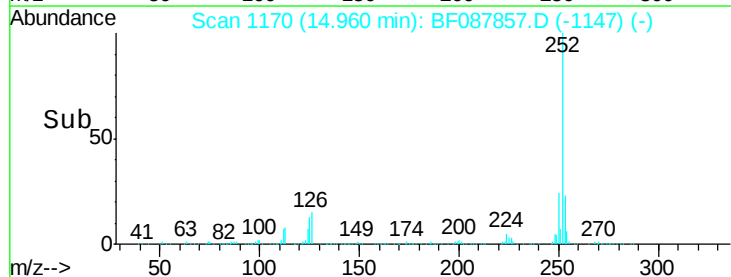
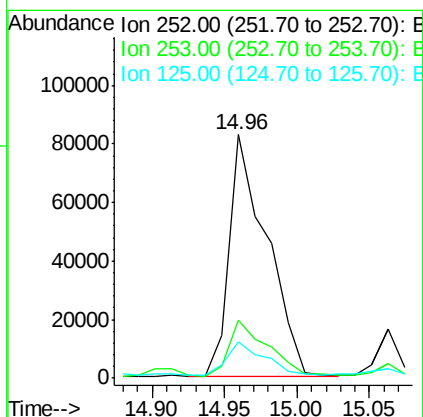
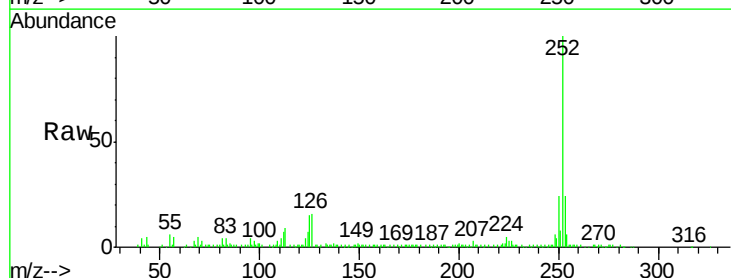
Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	22.0	16.9	25.3

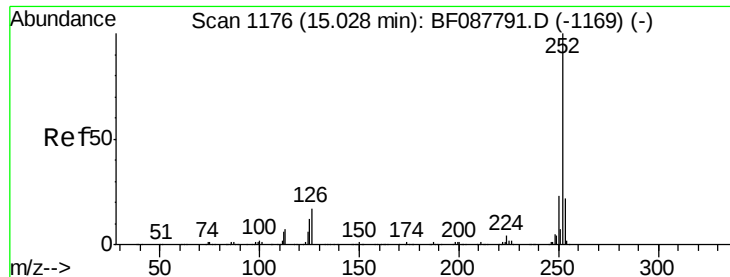


#87
Benzo(b)fluoranthene
Concen: 10.17 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.03 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

Tgt Ion:252 Resp: 150102

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.4	26.2
125	14.8	7.1	10.7#

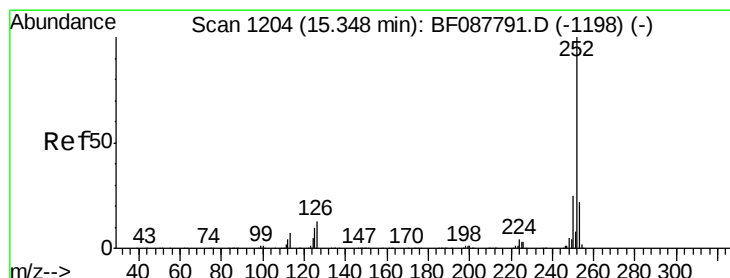
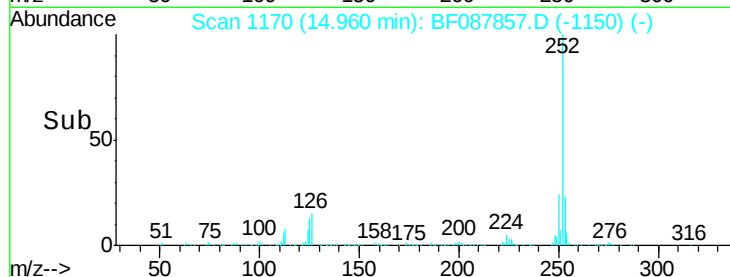
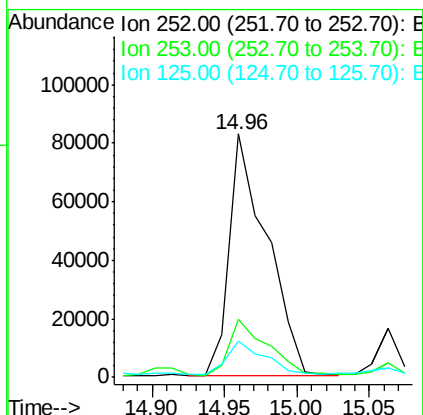
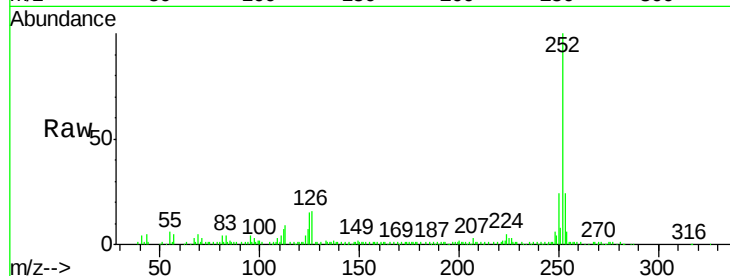




#88
Benzo(k)fluoranthene
Concen: 13.48 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.07 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

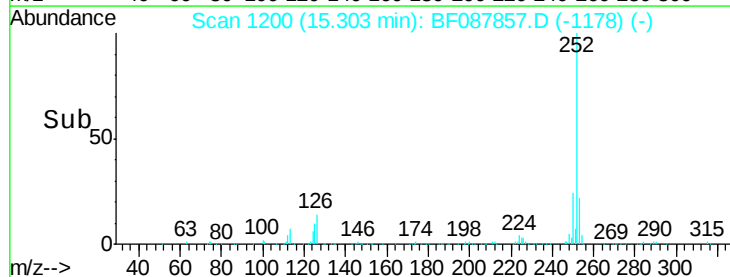
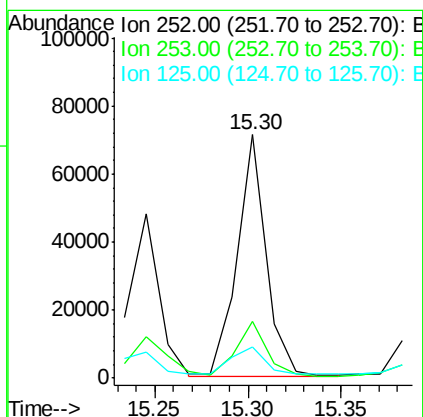
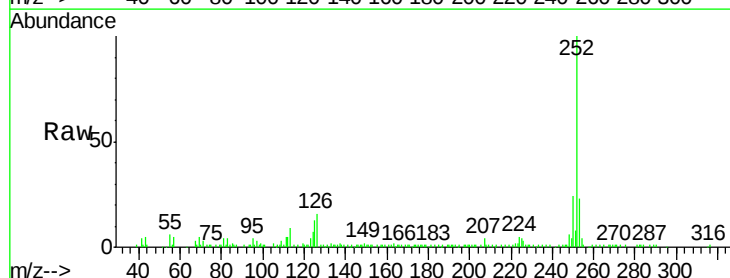
Instrument :
BNA_F
ClientSampleId :
DUP-1

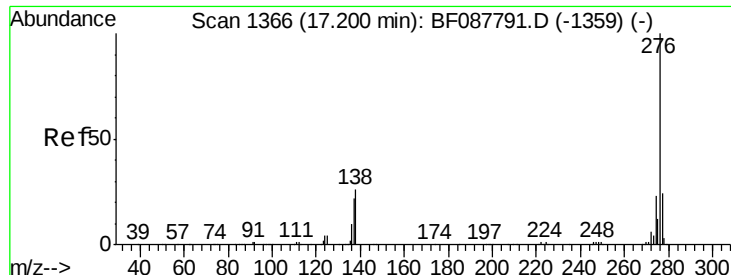
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	14.8	11.2	16.8



#89
Benzo(a)pyrene
Concen: 6.52 ng
RT: 15.30 min Scan# 1200
Delta R.T. -0.05 min
Lab File: BF087857.D
Acq: 9 Jun 2016 17:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	12.9	12.5	18.7





#91

Benzo(g,h,i)perylene

Concen: 3.53 ng

RT: 17.12 min Scan# 1359

Delta R.T. -0.08 min

Lab File: BF087857.D

Acq: 9 Jun 2016 17:28

Instrument :

BNA_F

ClientSampleId :

DUP-1

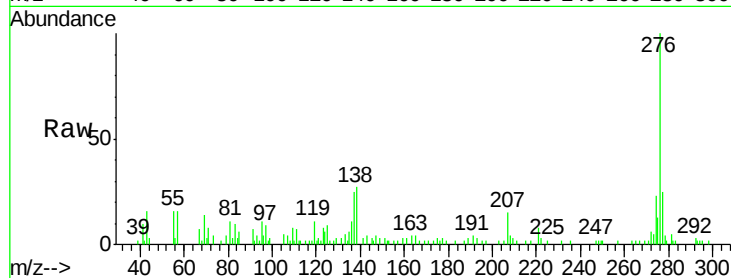
Tgt Ion:276 Resp: 40343

Ion Ratio Lower Upper

276 100

277 25.4 18.9 28.3

138 26.9 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

