

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101915\
 Data File : BF082389.D
 Acq On : 20 Oct 2015 8:22
 Operator : UM/IZ
 Sample : G4046-02DL2 250X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK58DL2

Quant Time: Oct 20 11:29:45 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 12 01:46:21 2015
 Response via : Initial Calibration

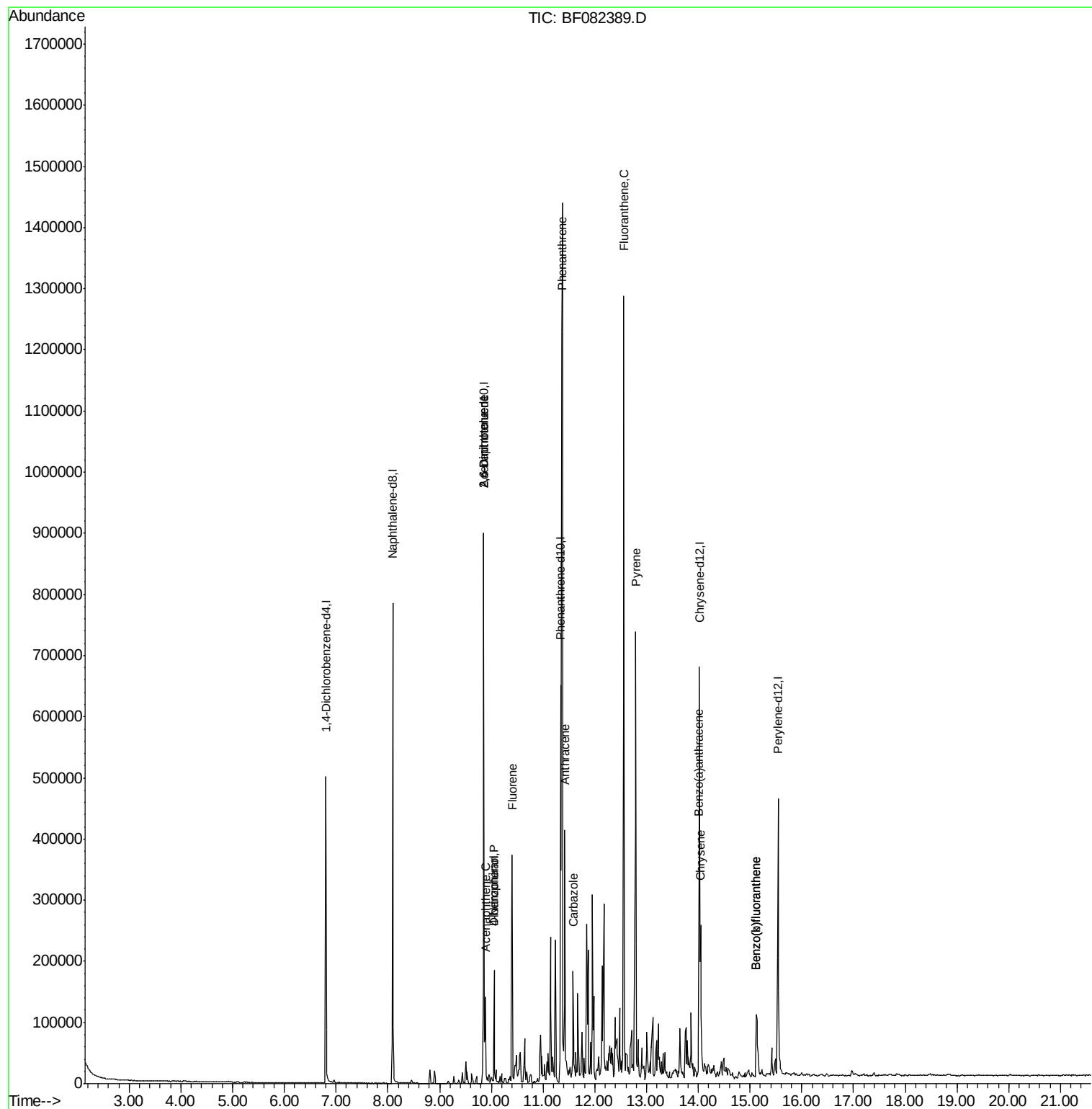
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	84210	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	350338	20.00	ng	-0.03
38) Acenaphthene-d10	9.85	164	174525	20.00	ng	-0.03
63) Phenanthrene-d10	11.34	188	301600	20.00	ng	-0.03
75) Chrysene-d12	14.02	240	231620	20.00	ng	0.01
86) Perylene-d12	15.54	264	215371	20.00	ng	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.47	99	224	0.04	ng	-0.01
23) Nitrobenzene-d5	0.00	82	0	0.00	ng	
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.18	172	2898	0.28	ng	-0.03
78) Terphenyl-d14	12.93	244	2942	0.34	ng	-0.03
Target Compounds						
50) 2,6-Dinitrotoluene	9.85	165	24223	9.34	ng	# 32
51) Acenaphthene	9.89	154	38828	3.96	ng	97
54) Dibenzofuran	10.06	168	84452	6.28	ng	95
55) 4-Nitrophenol	10.06	139	29875	20.41	ng	# 11
56) 2,4-Dinitrotoluene	9.85	165	24622	7.60	ng	# 23
57) Fluorene	10.40	166	115013	10.41	ng	99
70) Phenanthrene	11.37	178	833857	56.40	ng	99
71) Anthracene	11.42	178	200413	13.16	ng	98
72) Carbazole	11.58	167	95612	6.88	ng	97
74) Fluoranthene	12.56	202	614532	38.70	ng	98
77) Pyrene	12.79	202	363317	26.43	ng	98
80) Benzo(a)anthracene	14.01	228	88982	7.38	ng	99
82) Chrysene	14.05	228	96024	7.56	ng	98
87) Benzo(b)fluoranthene	15.12	252	81560	6.22	ng	98
88) Benzo(k)fluoranthene	15.12	252	81560	7.41	ng	# 96

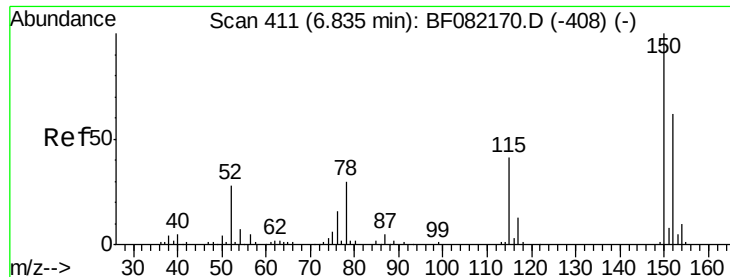
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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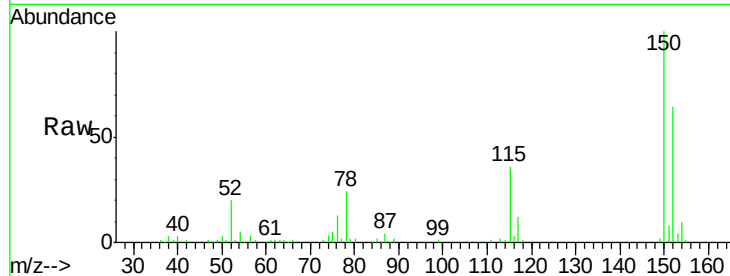


#1

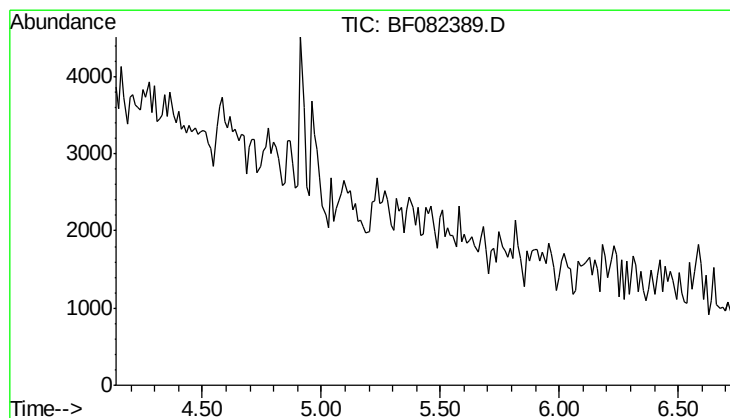
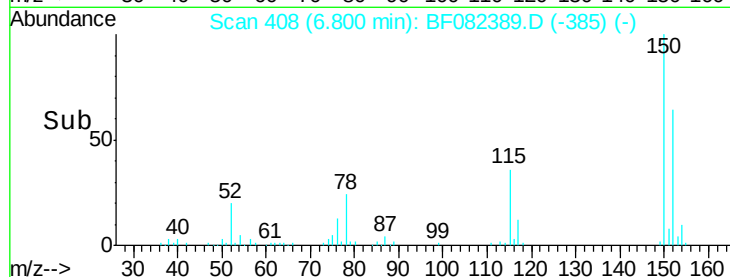
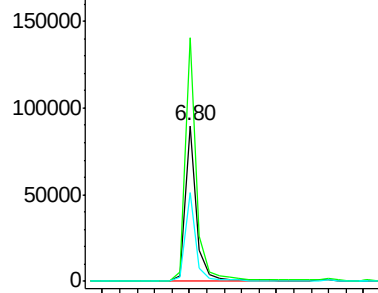
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 408
Delta R.T. -0.03 min
Lab File: BF082389.D
Acq: 20 Oct 2015 8:22

Instrument :
BNA_F
ClientSampleId :
GOODLUCK58DL2

Tot Ion:152 Resp: 84210
Ion Ratio Lower Upper
152 100
150 156.7 129.0 193.4
115 57.1 52.1 78.1



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

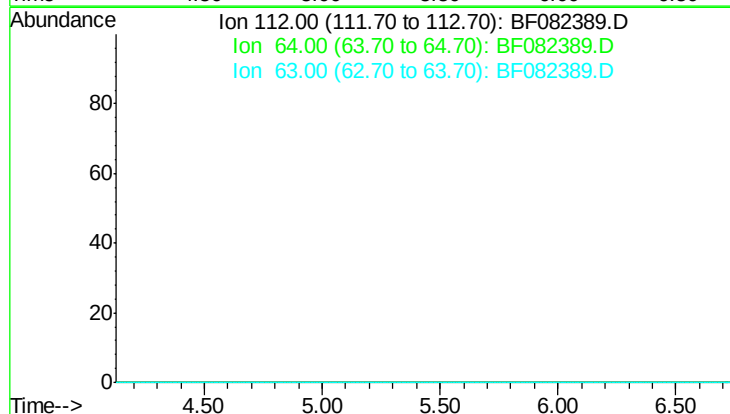


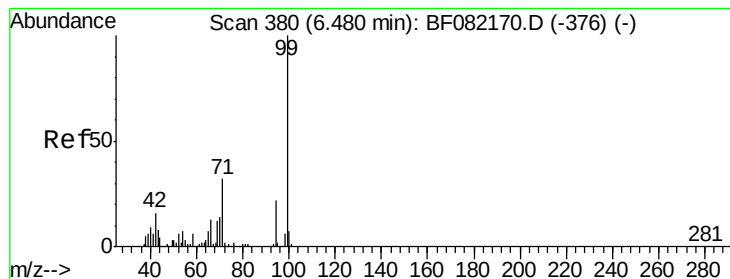
#5

2-Fluorophenol
Concen: 0.00 ng
Expected RT: 5.43 min

Lab File: BF082389.D
Acq: 20 Oct 2015 8:22

Tgt Ion: 112
Sig Exp Ratio
112 100
64 60.8
63 31.4





#7

Phenol-d6

Concen: 0.04 ng

RT: 6.47 min Scan# 379

Delta R.T. -0.01 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58DL2

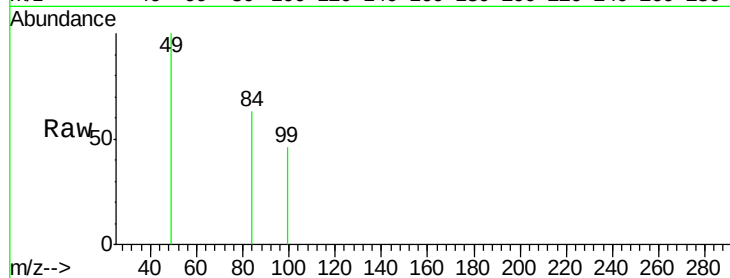
Tot Ion: 99 Resp: 224

Ion Ratio Lower Upper

99 100

42 0.0 13.2 19.8#

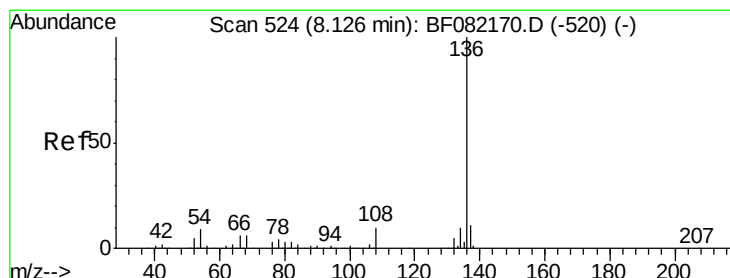
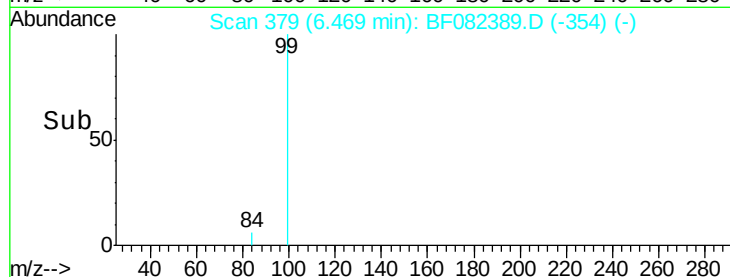
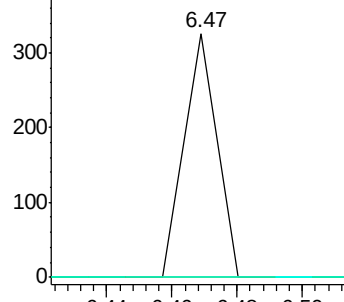
71 0.0 25.6 38.4#



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 521

Delta R.T. -0.03 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

Tgt Ion: 136 Resp: 350338

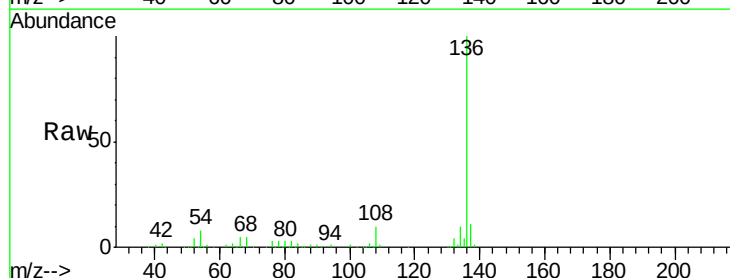
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.6

54 8.1 7.5 11.3

68 5.2 4.6 7.0

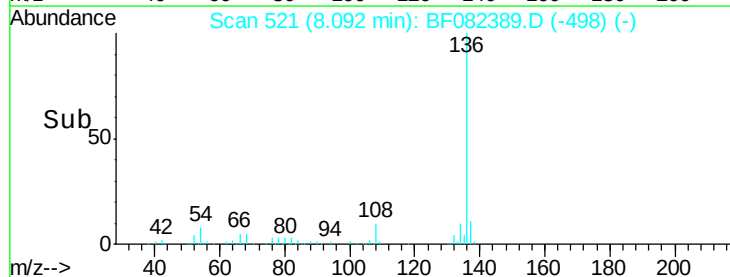
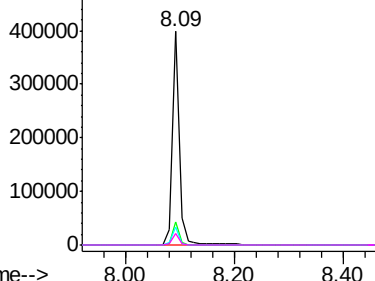


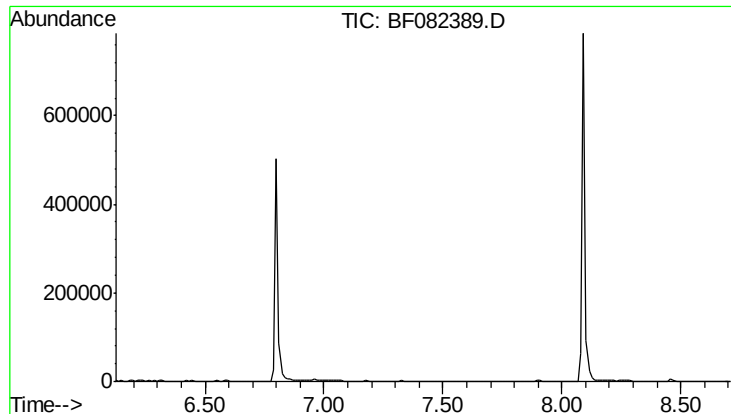
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

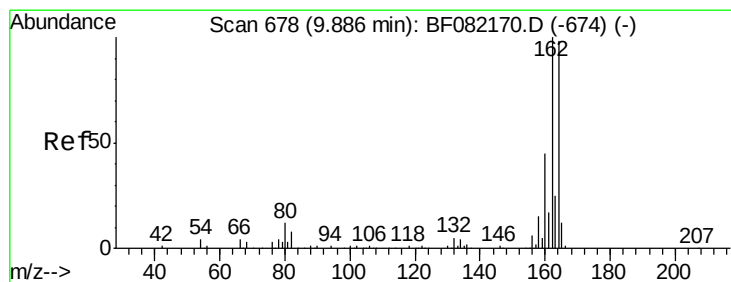
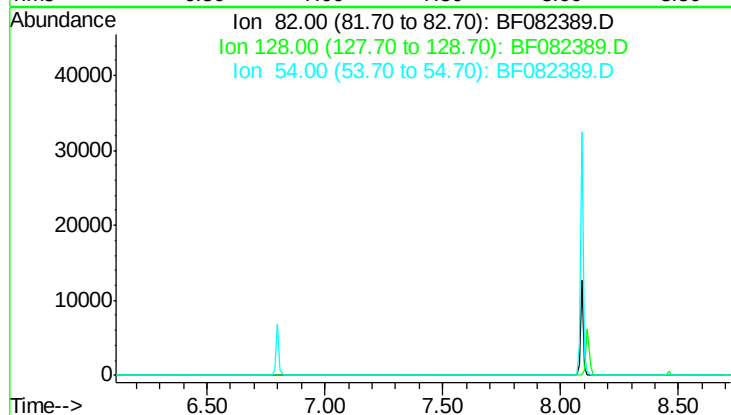




#23
 Nitrobenzene-d5
 Concen: 0.00 ng
 Expected RT: 7.42 min
 Lab File: BF082389.D
 Acq: 20 Oct 2015 8:22

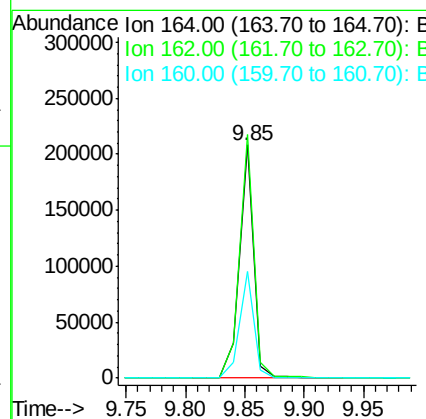
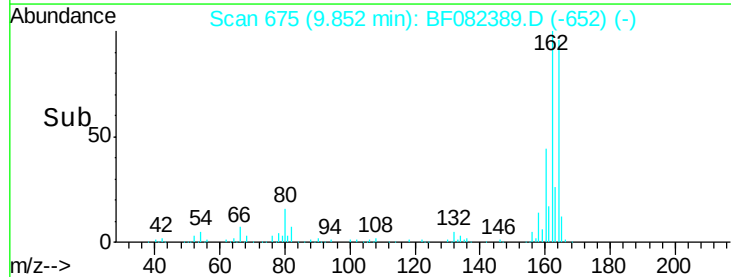
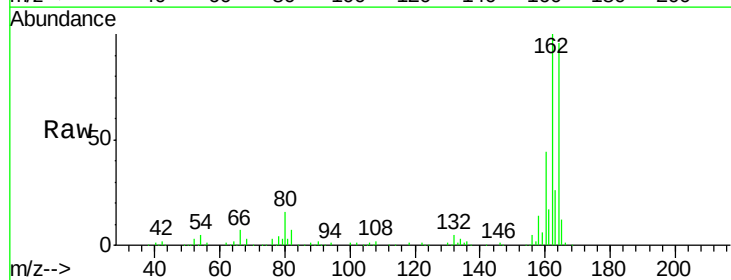
Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK58DL2

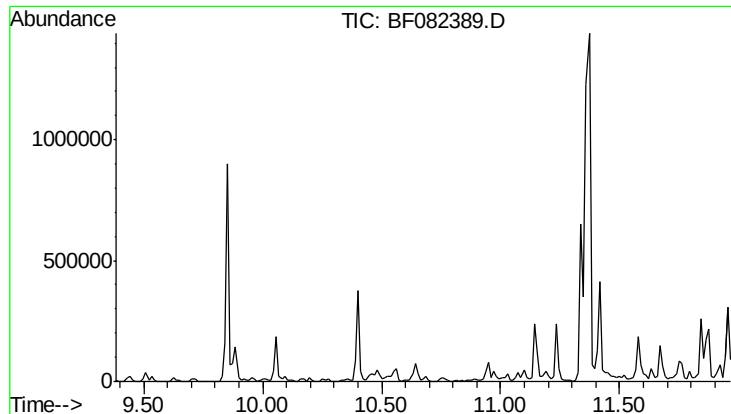
Tot Ion	82
Sig	Exp Ratio
82	100
128	48.4
54	50.1



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 675
 Delta R.T. -0.03 min
 Lab File: BF082389.D
 Acq: 20 Oct 2015 8:22

Tgt Ion	164	Resp	174525
Ion Ratio	Lower	Upper	
164	100		
162	104.5	81.6	122.4
160	45.7	36.4	54.6

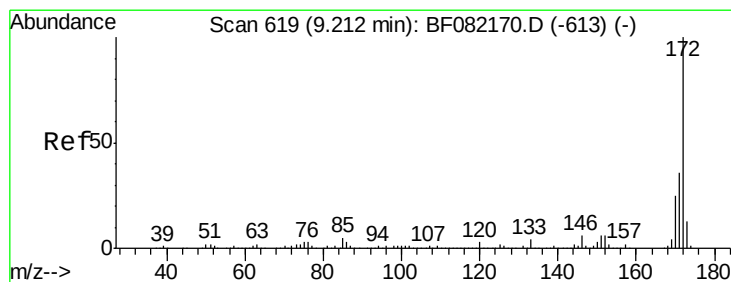
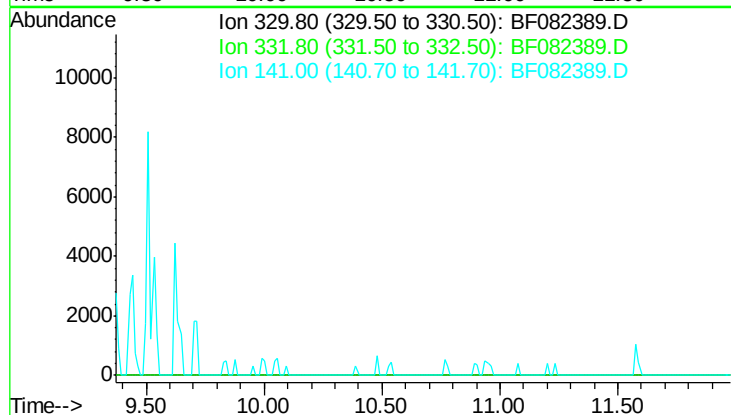




#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 10.67 min
 Lab File: BF082389.D
 Acq: 20 Oct 2015 8:22

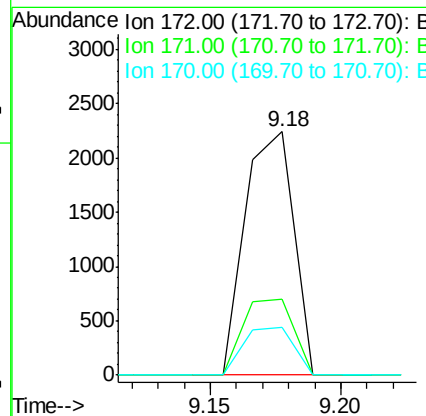
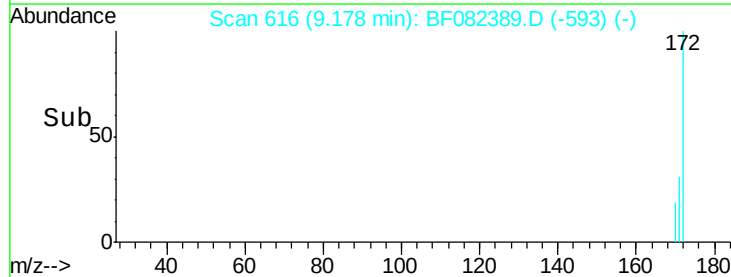
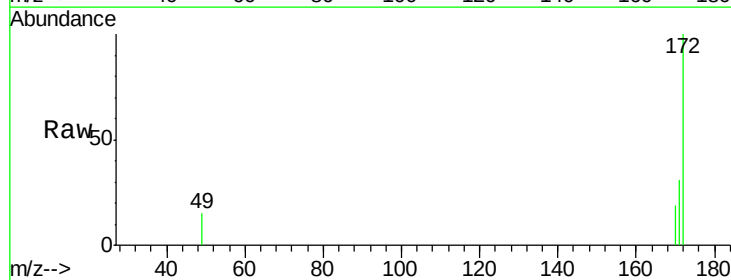
Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK58DL2

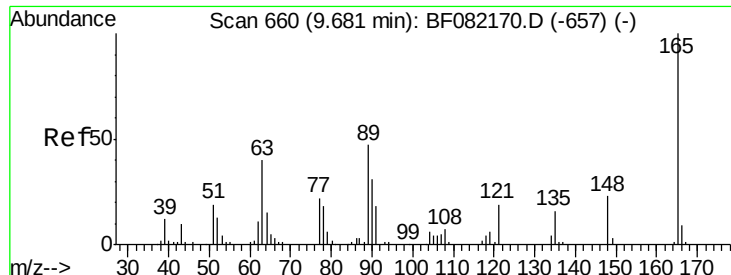
Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 96.4
 141 37.3



#44
 2-Fluorobiphenyl
 Concen: 0.28 ng
 RT: 9.18 min Scan# 616
 Delta R.T. -0.03 min
 Lab File: BF082389.D
 Acq: 20 Oct 2015 8:22

Tgt Ion: 172 Resp: 2898
 Ion Ratio Lower Upper
 172 100
 171 31.3 28.6 42.8
 170 19.4 19.7 29.5

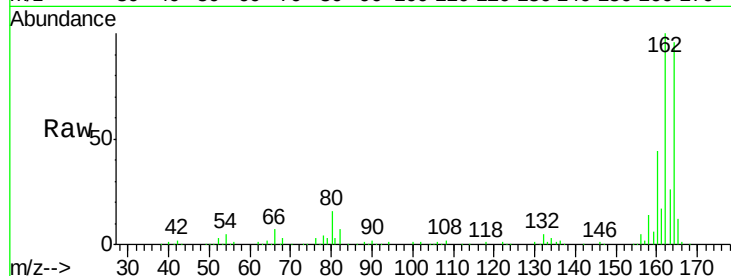




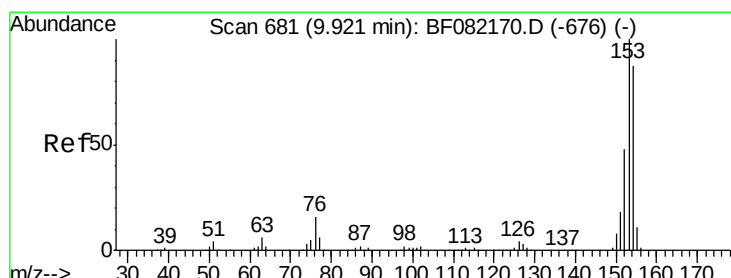
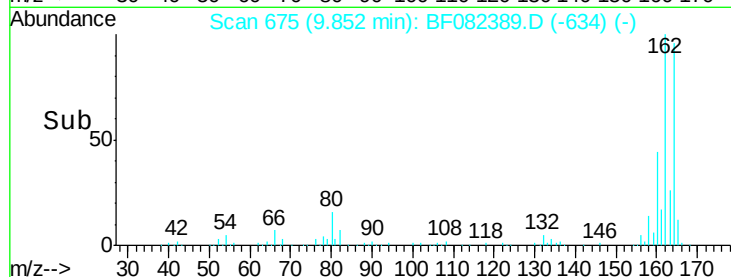
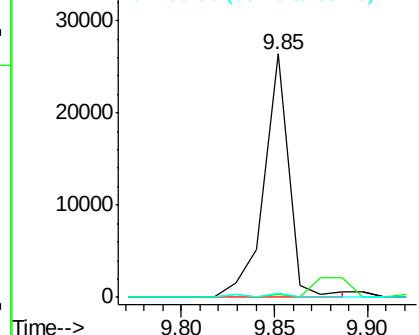
#50
 2,6-Dinitrotoluene
 Concen: 9.34 ng
 RT: 9.85 min Scan# 675
 Delta R.T. 0.17 min
 Lab File: BF082389.D
 Acq: 20 Oct 2015 8:22

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK58DL2

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	36.7	55.1#
89	1.7	37.8	56.6#

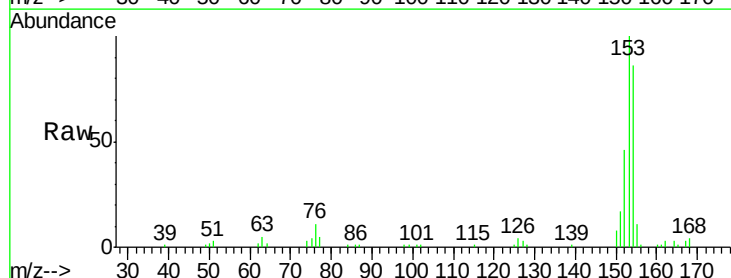


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

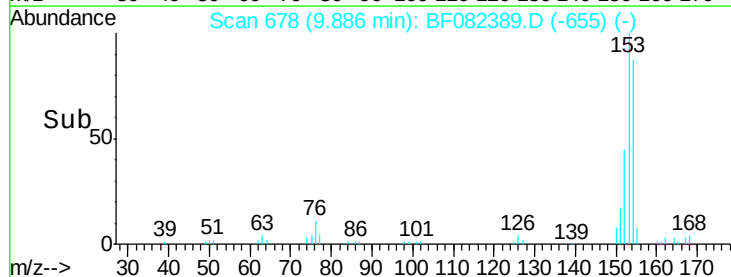
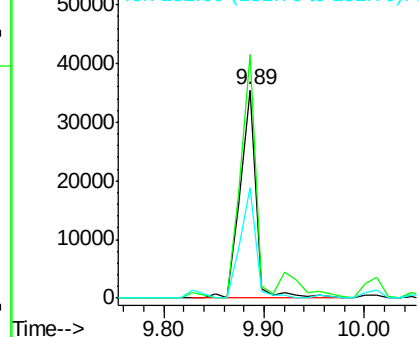


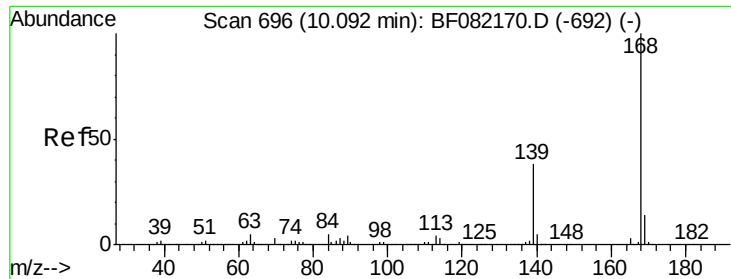
#51
 Acenaphthene
 Concen: 3.96 ng
 RT: 9.89 min Scan# 678
 Delta R.T. -0.03 min
 Lab File: BF082389.D
 Acq: 20 Oct 2015 8:22

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.9	91.4	137.2
152	53.2	44.3	66.5



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E

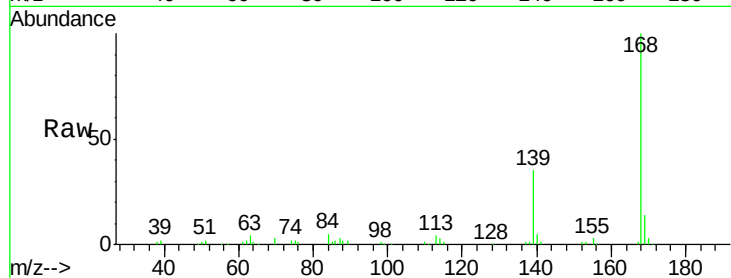




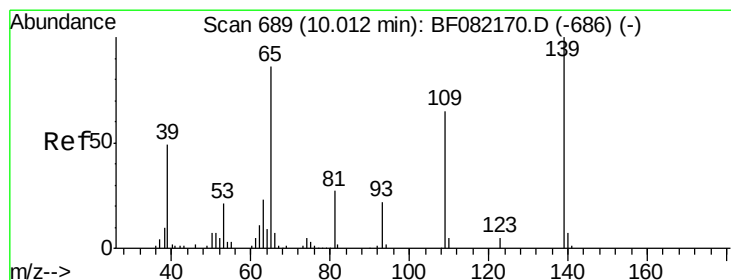
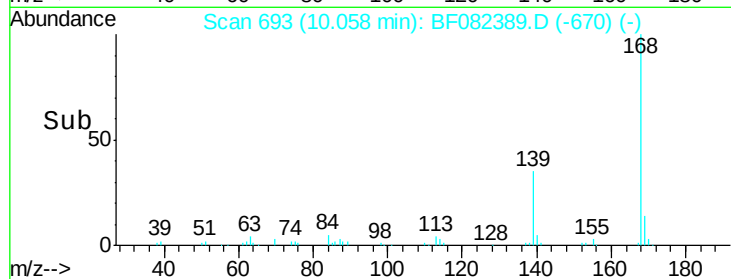
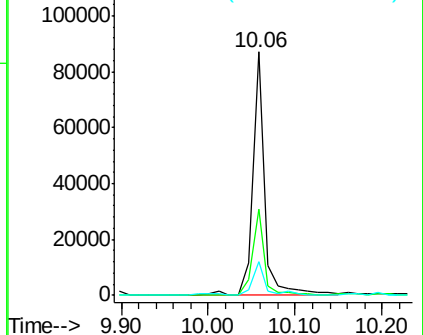
#54
Dibenzenofuran
Concen: 6.28 ng
RT: 10.06 min Scan# 693
Delta R.T. -0.03 min
Lab File: BF082389.D
Acq: 20 Oct 2015 8:22

Instrument :
BNA_F
ClientSampleId :
GOODLUCK58DL2

Tot Ion:168 Resp: 84452
Ion Ratio Lower Upper
168 100
139 35.1 31.0 46.6
169 13.9 10.9 16.3

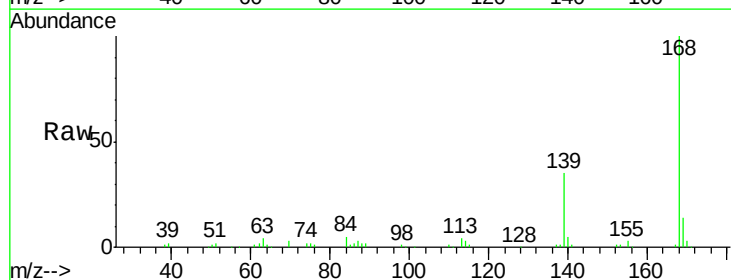


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

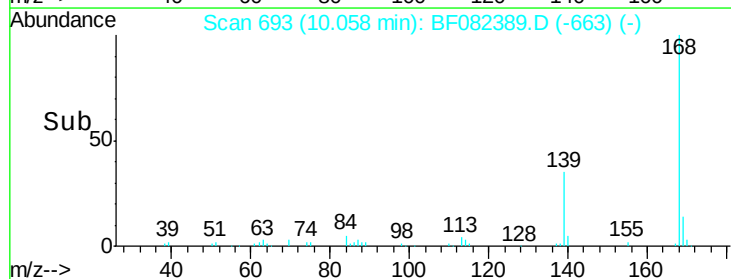
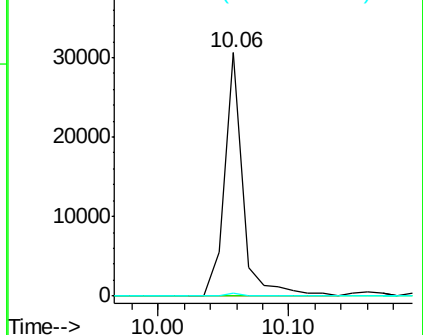


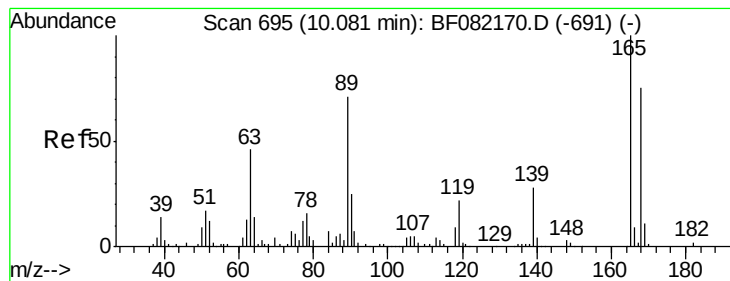
#55
4-Nitrophenol
Concen: 20.41 ng
RT: 10.06 min Scan# 693
Delta R.T. 0.05 min
Lab File: BF082389.D
Acq: 20 Oct 2015 8:22

Tgt Ion:139 Resp: 29875
Ion Ratio Lower Upper
139 100
109 0.0 44.8 84.8#
65 1.2 67.7 107.7#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 7.60 ng

RT: 9.85 min Scan# 675

Delta R.T. -0.23 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58DL2

Tot Ion:165 Resp: 24622

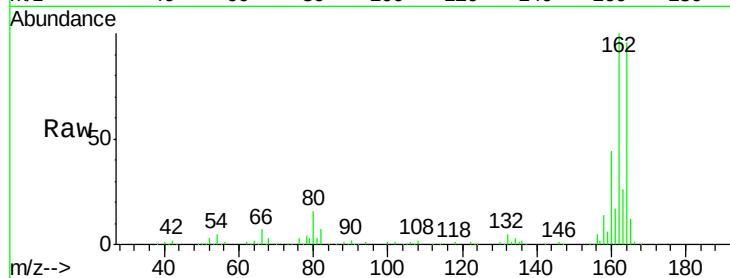
Ion Ratio Lower Upper

165 100

63 1.2 38.6 58.0#

89 1.7 57.0 85.6#

182 0.0 1.8 2.6#

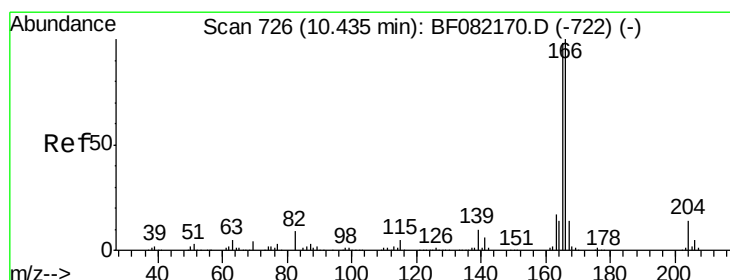
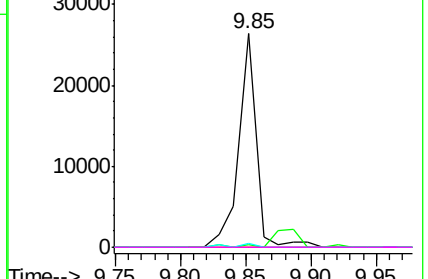
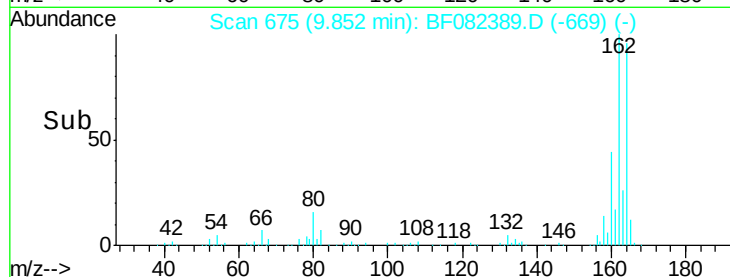


Abundance Ion 165.00 (164.70 to 165.70): E

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



#57

Fluorene

Concen: 10.41 ng

RT: 10.40 min Scan# 723

Delta R.T. -0.03 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

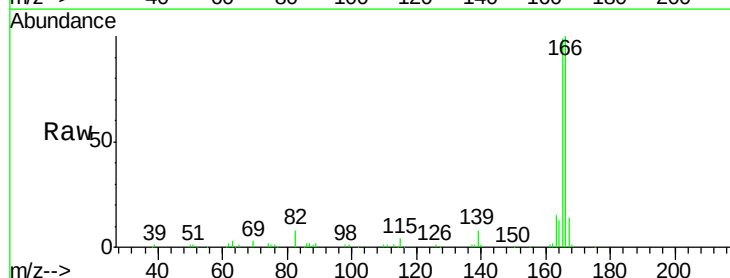
Tgt Ion:166 Resp: 115013

Ion Ratio Lower Upper

166 100

165 98.6 78.3 117.5

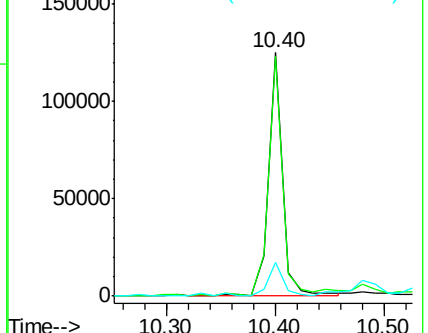
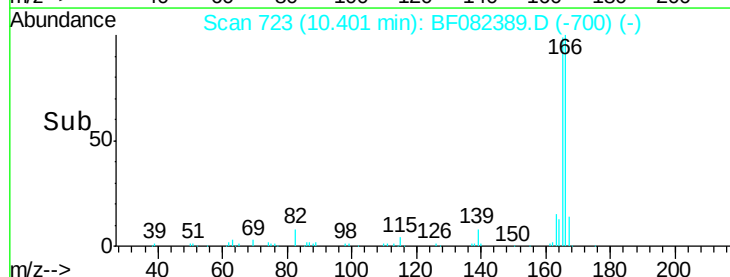
167 13.9 10.8 16.2

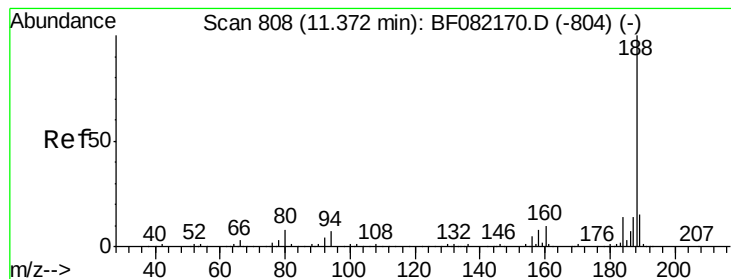


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.34 min Scan# 805

Delta R.T. -0.03 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58DL2

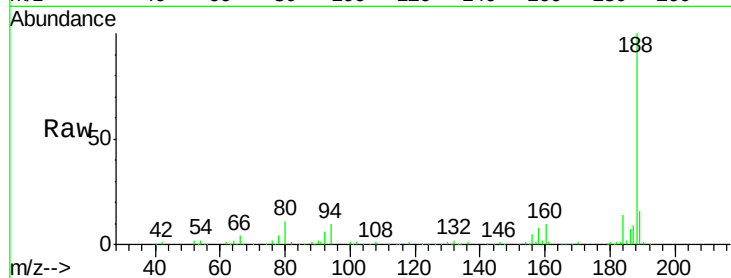
Tot Ion:188 Resp: 301600

Ion Ratio Lower Upper

188 100

94 9.8 5.8 8.6#

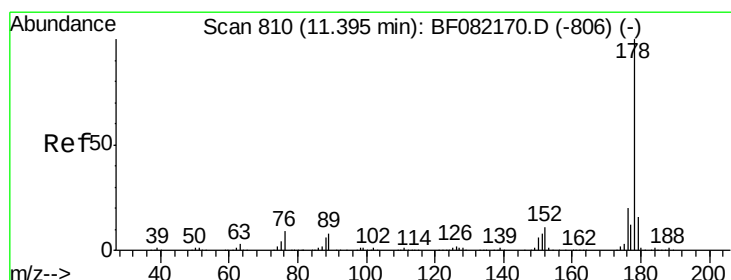
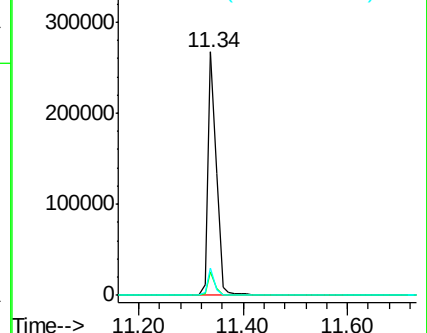
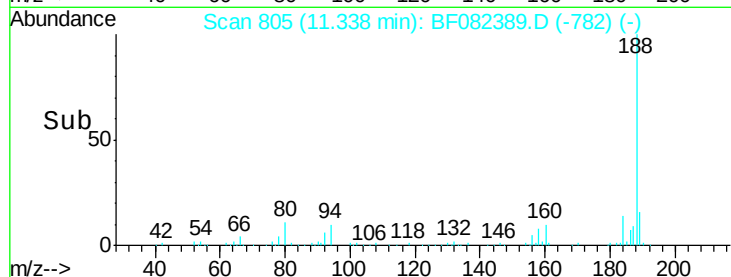
80 11.0 6.4 9.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 56.40 ng

RT: 11.37 min Scan# 808

Delta R.T. -0.02 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

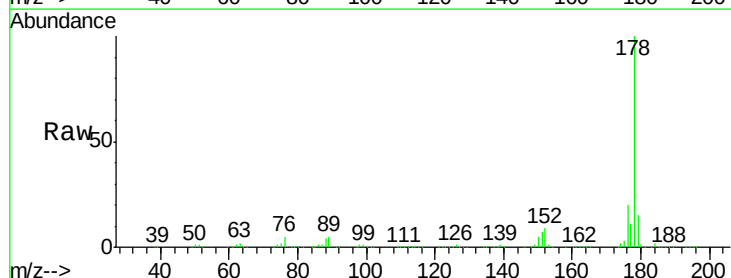
Tgt Ion:178 Resp: 833857

Ion Ratio Lower Upper

178 100

176 19.5 16.0 24.0

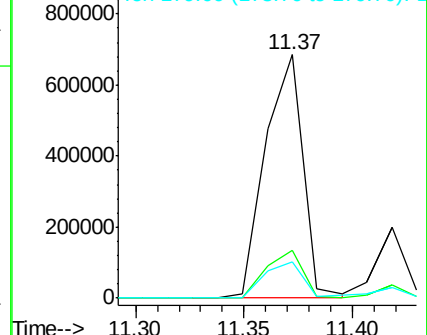
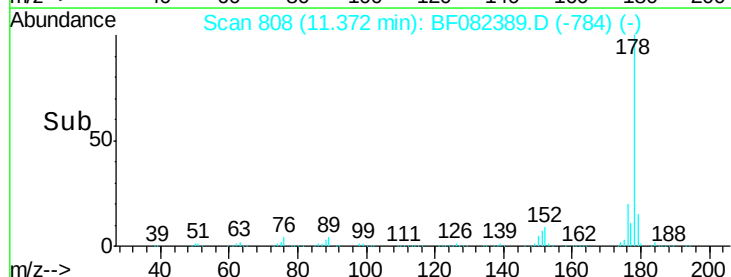
179 14.9 12.6 19.0

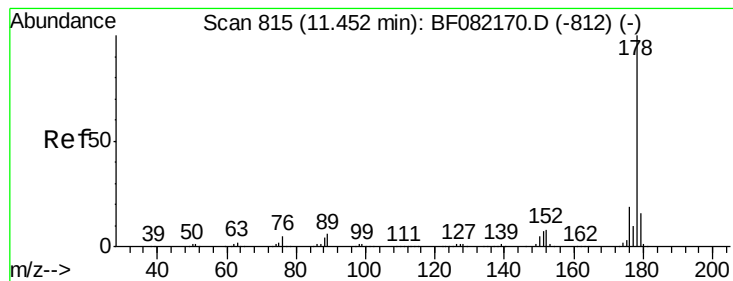


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 13.16 ng

RT: 11.42 min Scan# 812

Delta R.T. -0.03 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58DL2

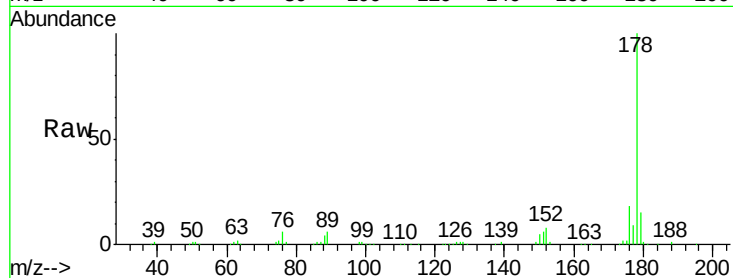
Tot Ion:178 Resp: 200413

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.0

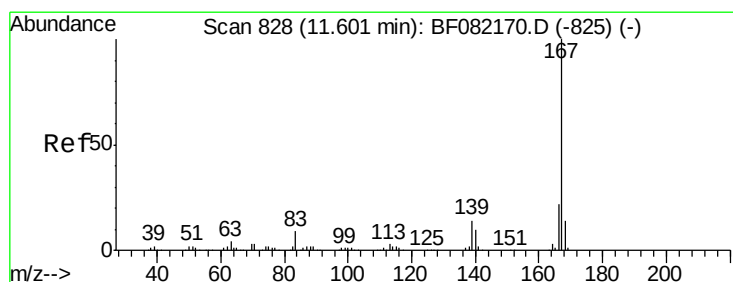
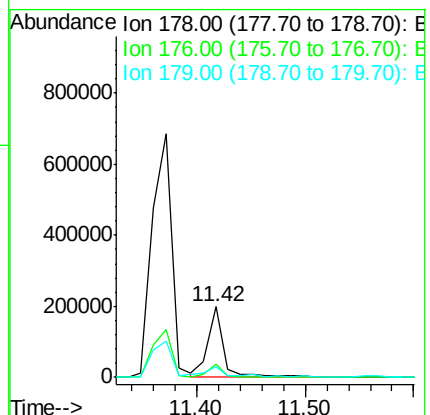
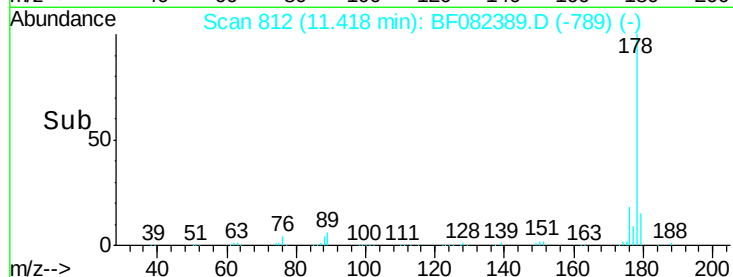
179 15.0 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 6.88 ng

RT: 11.58 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

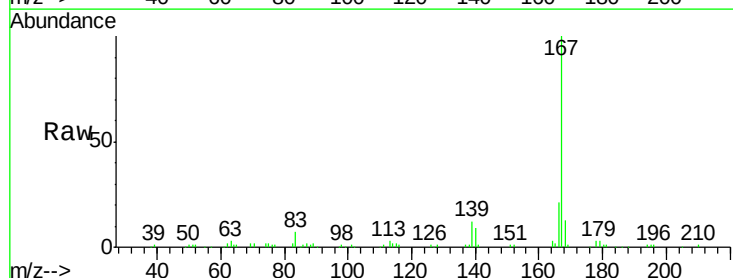
Tgt Ion:167 Resp: 95612

Ion Ratio Lower Upper

167 100

166 21.1 17.3 25.9

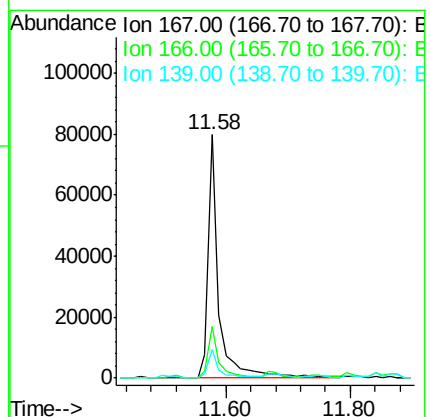
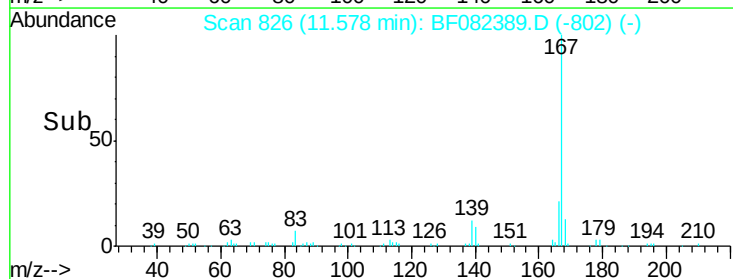
139 11.8 11.2 16.8

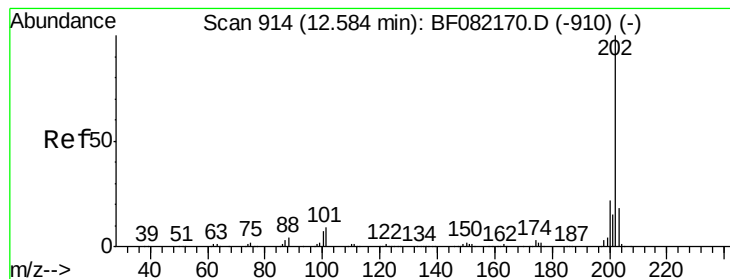


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 38.70 ng

RT: 12.56 min Scan# 912

Delta R.T. -0.02 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58DL2

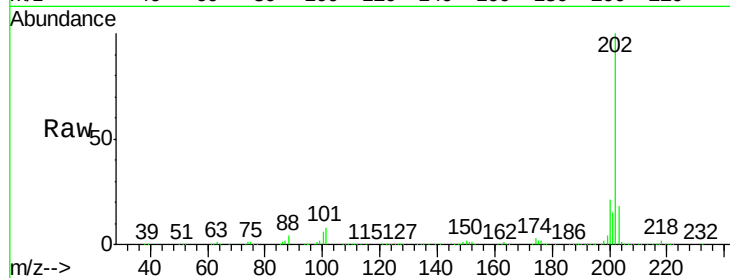
Tot Ion:202 Resp: 614532

Ion Ratio Lower Upper

202 100

101 7.8 0.0 29.3

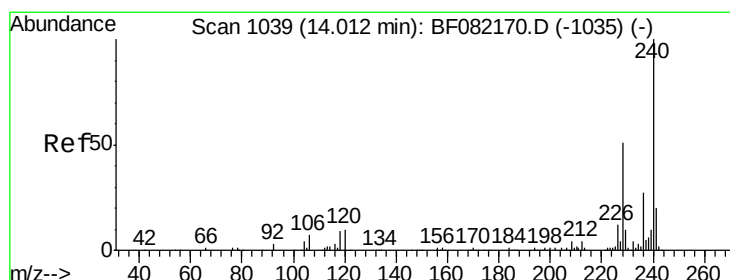
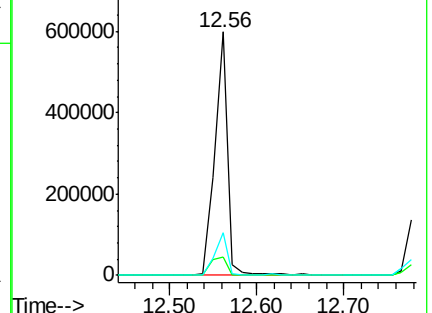
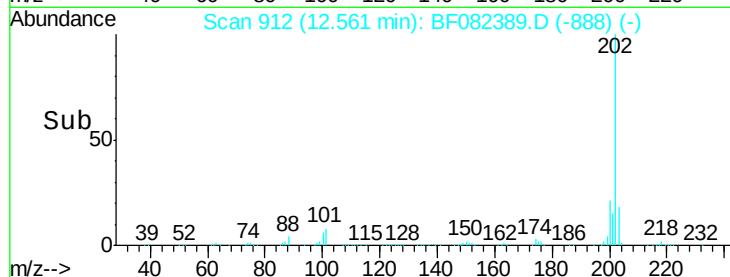
203 17.7 0.0 37.8



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: 14.02 min Scan# 1040

Delta R.T. 0.01 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

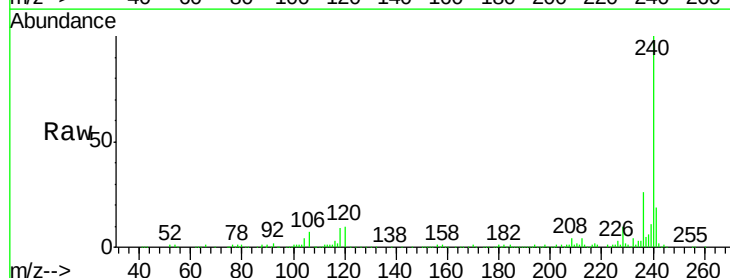
Tgt Ion:240 Resp: 231620

Ion Ratio Lower Upper

240 100

120 9.8 8.1 12.1

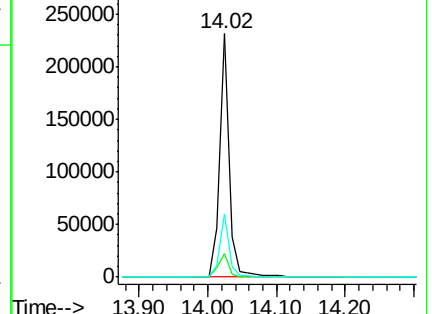
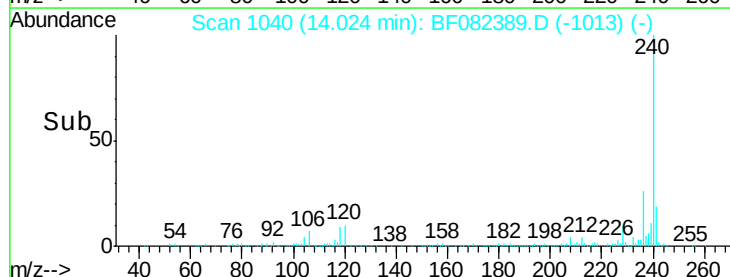
236 25.9 21.3 31.9

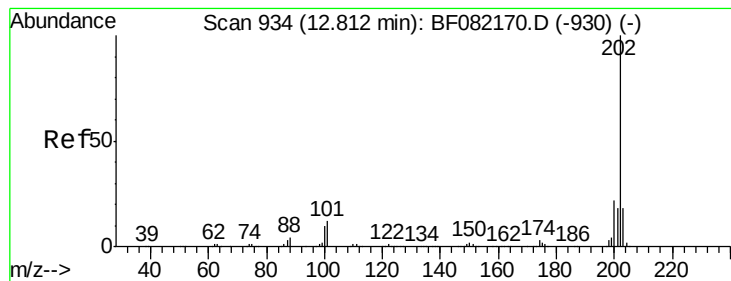


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 26.43 ng

RT: 12.79 min Scan# 932

Delta R.T. -0.02 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58DL2

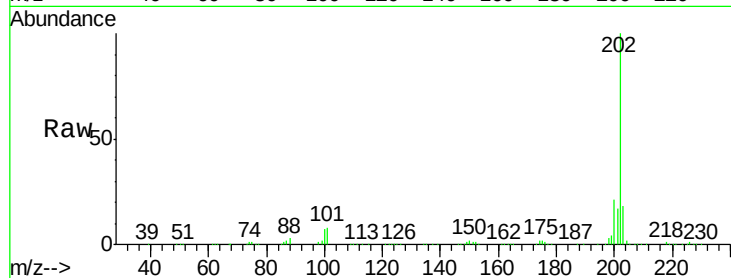
Tot Ion:202 Resp: 363317

Ion Ratio Lower Upper

202 100

200 21.0 17.9 26.9

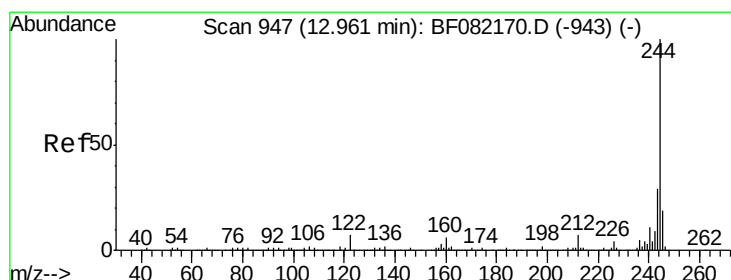
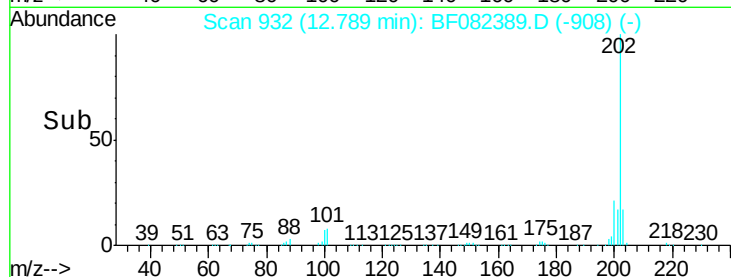
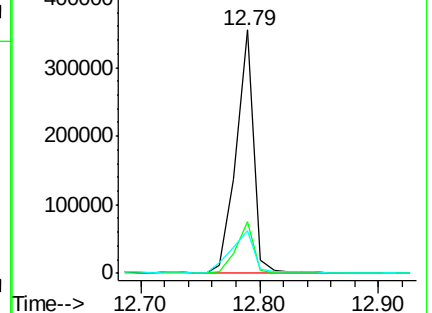
203 17.5 14.5 21.7



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: 0.34 ng

RT: 12.93 min Scan# 944

Delta R.T. -0.03 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

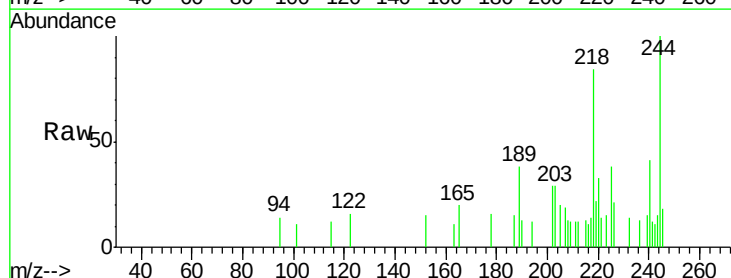
Tgt Ion:244 Resp: 2942

Ion Ratio Lower Upper

244 100

212 11.6 5.8 8.6#

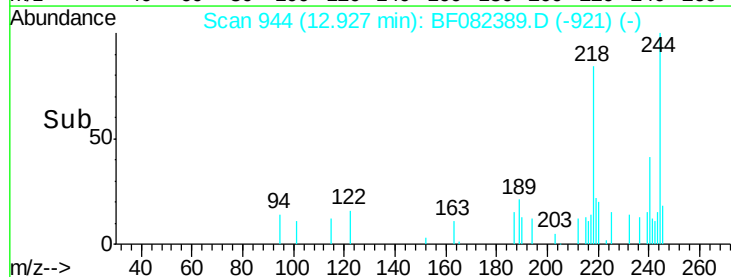
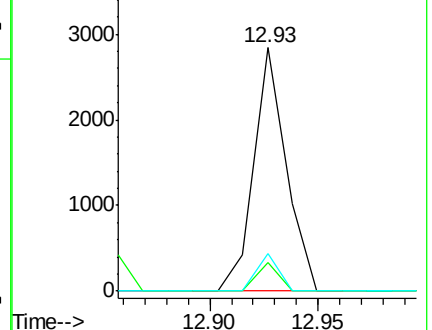
122 15.7 5.9 8.9#

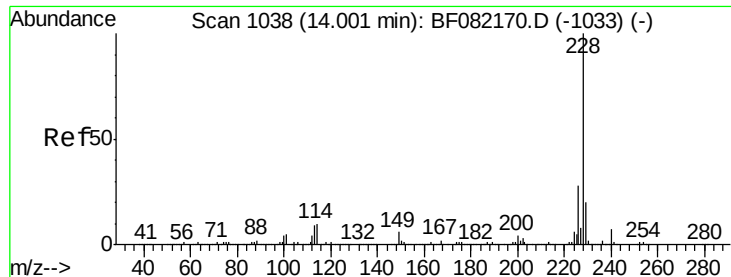


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 7.38 ng

RT: 14.01 min Scan# 1039

Delta R.T. 0.01 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

Instrument :

BNA_F

ClientSampleId :

GOODLUCK58DL2

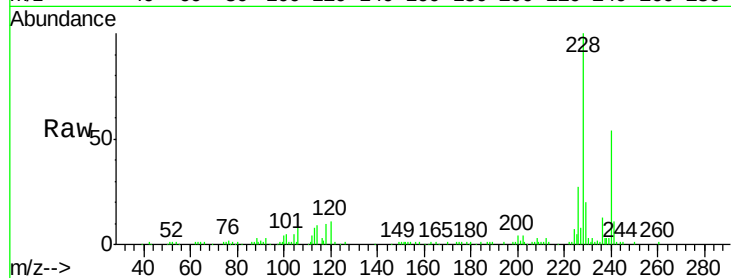
Tot Ion:228 Resp: 88982

Ion Ratio Lower Upper

228 100

226 27.3 22.3 33.5

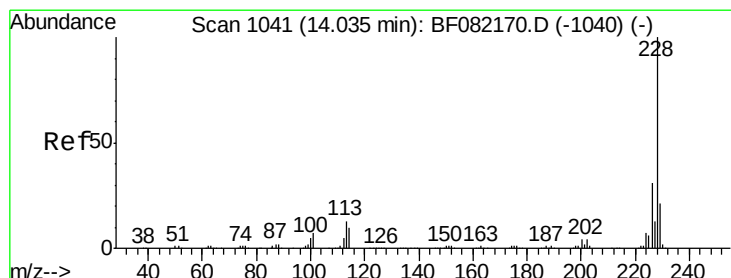
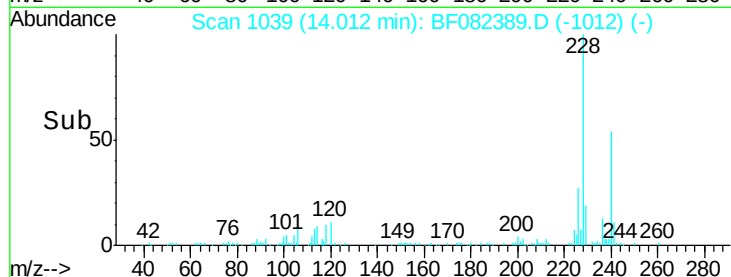
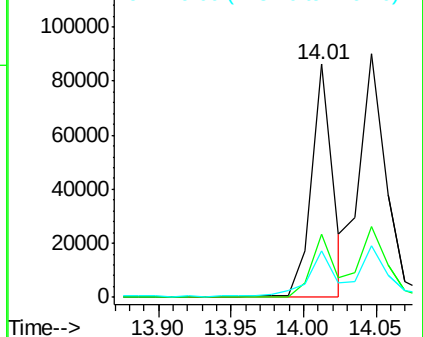
229 19.7 16.2 24.2



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: 7.56 ng

RT: 14.05 min Scan# 1042

Delta R.T. 0.01 min

Lab File: BF082389.D

Acq: 20 Oct 2015 8:22

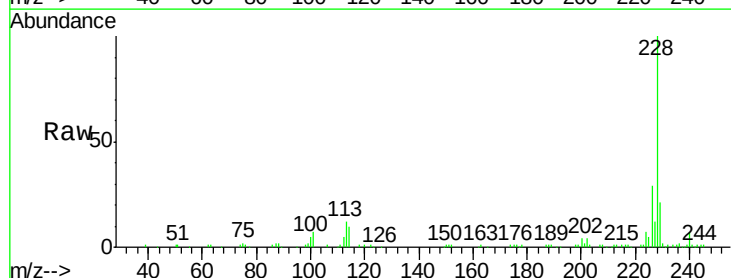
Tgt Ion:228 Resp: 96024

Ion Ratio Lower Upper

228 100

226 29.0 24.4 36.6

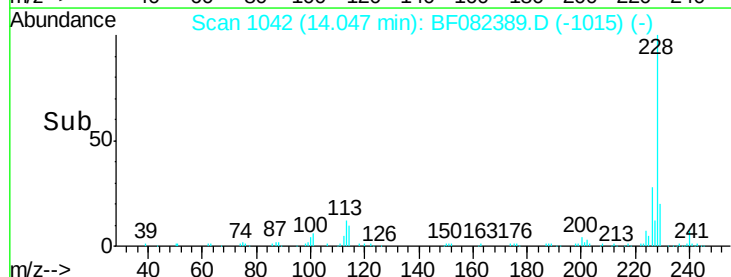
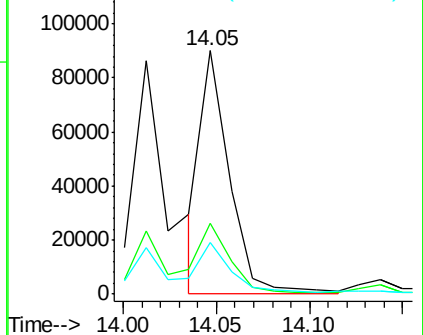
229 21.1 16.3 24.5

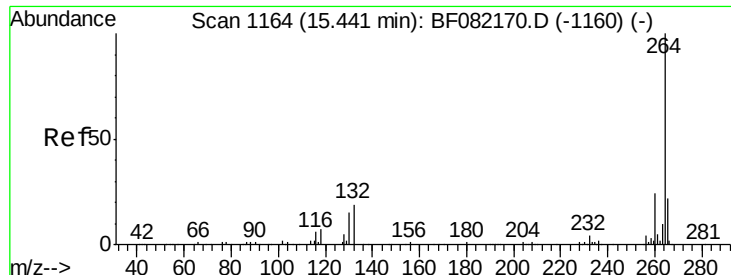


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

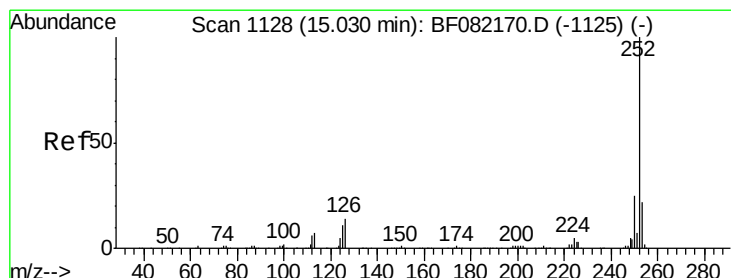
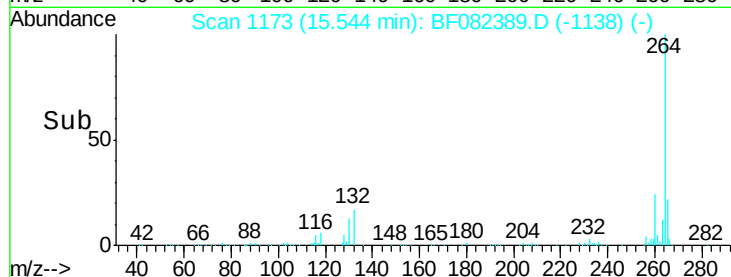
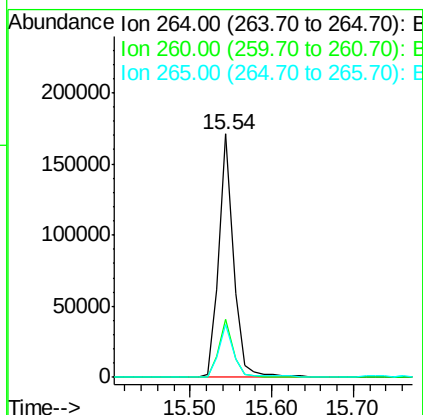
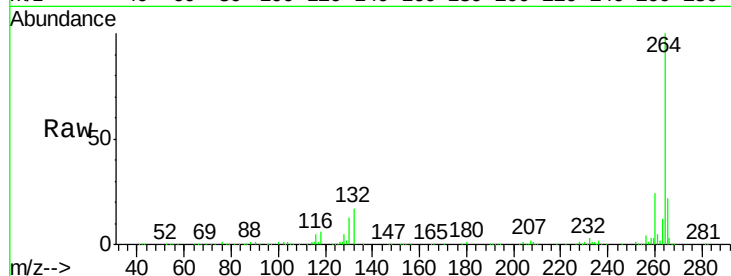




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.54 min Scan# 1173
Delta R.T. 0.10 min
Lab File: BF082389.D
Acq: 20 Oct 2015 8:22

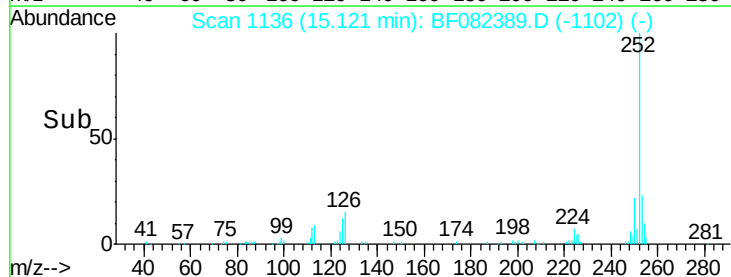
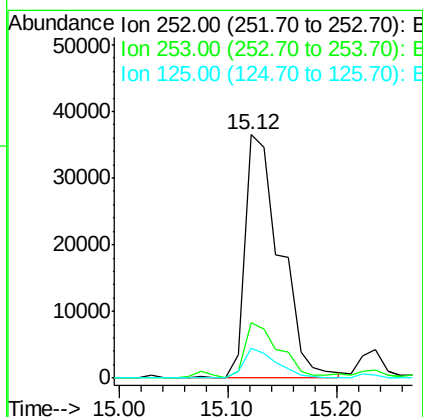
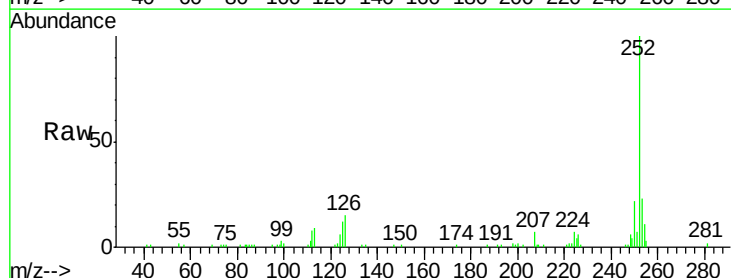
Instrument :
BNA_F
ClientSampleId :
GOODLUCK58DL2

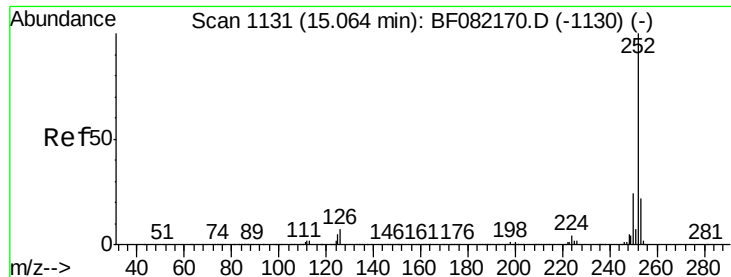
Tot Ion:264 Resp: 215371
Ion Ratio Lower Upper
264 100
260 23.9 19.0 28.6
265 21.7 17.3 25.9



#87
Benzo(b)fluoranthene
Concen: 6.22 ng
RT: 15.12 min Scan# 1136
Delta R.T. 0.09 min
Lab File: BF082389.D
Acq: 20 Oct 2015 8:22

Tgt Ion:252 Resp: 81560
Ion Ratio Lower Upper
252 100
253 22.8 18.0 27.0
125 12.4 8.6 12.8





#88
 Benzo(k)fluoranthene
 Concen: 7.41 ng
 RT: 15.12 min Scan# 1136
 Delta R.T. 0.06 min
 Lab File: BF082389.D
 Acq: 20 Oct 2015 8:22

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK58DL2

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	12.4	6.7	10.1

