

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089057.D
 Acq On : 16 Jul 2016 16:10
 Operator : UM/SJ
 Sample : H3989-03
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 01:14:48 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

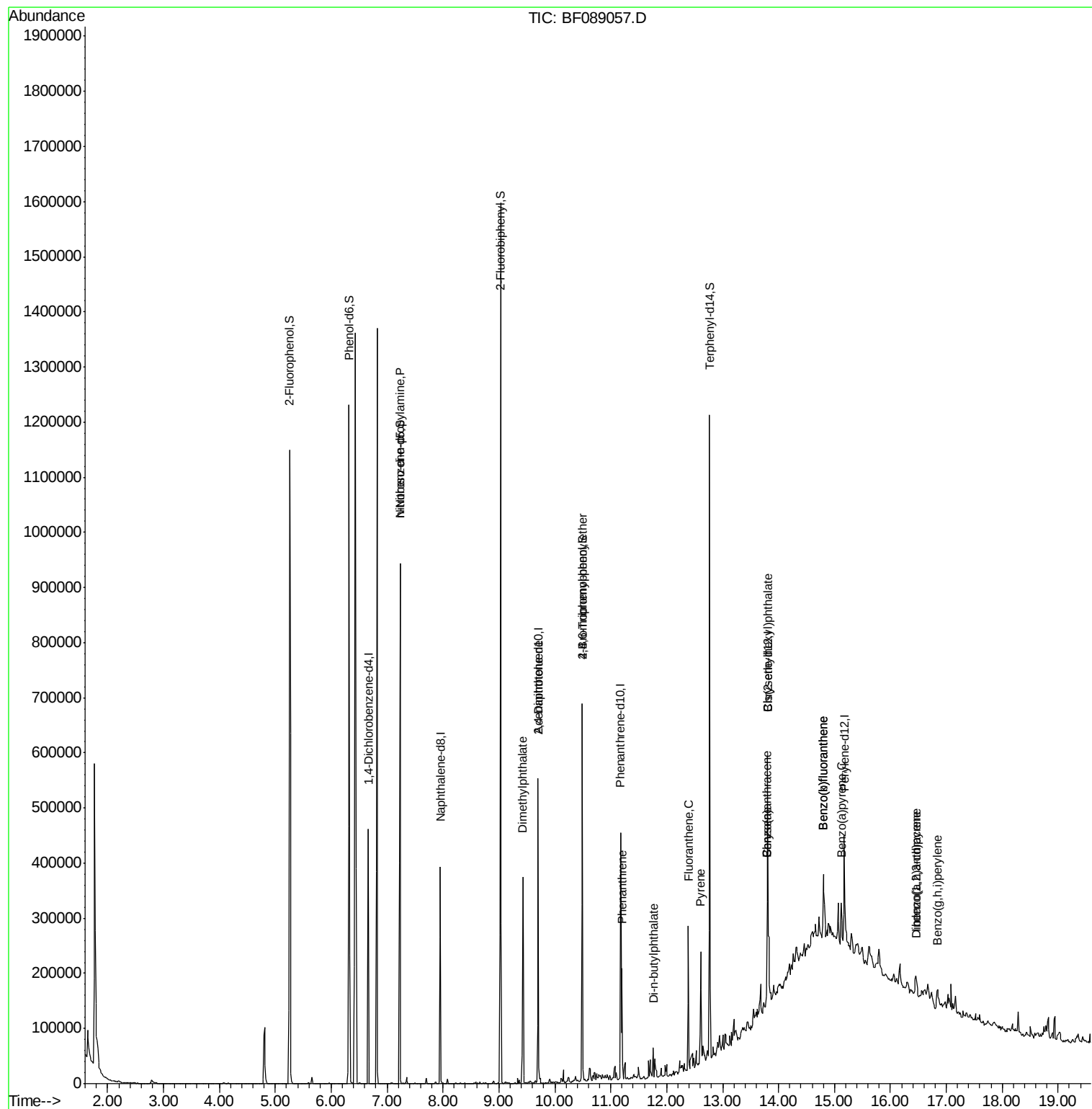
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	58654	20.00	ng	-0.05
21) Naphthalene-d8	7.95	136	227303	20.00	ng	-0.05
38) Acenaphthene-d10	9.70	164	98881	20.00	ng	-0.05
63) Phenanthrene-d10	11.18	188	145322	20.00	ng	-0.05
75) Chrysene-d12	13.81	240	108045	20.00	ng	-0.05
86) Perylene-d12	15.18	264	83988	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	389315	99.48	ng	-0.03
7) Phenol-d6	6.32	99	467109	92.37	ng	-0.03
23) Nitrobenzene-d5	7.23	82	334514	77.12	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	71341	77.70	ng	-0.05
44) 2-Fluorobiphenyl	9.03	172	486094	77.65	ng	-0.05
78) Terphenyl-d14	12.77	244	313852	64.70	ng	-0.03
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	46696	13.75	ng	# 73
49) Dimethylphthalate	9.43	163	130832	18.57	ng	100
56) 2,4-Dinitrotoluene	9.70	165	12871	6.31	ng	# 37
66) 4-Bromophenyl-phenylether	10.49	248	5963	4.07	ng	# 1
70) Phenanthrene	11.20	178	66258	8.34	ng	98
73) Di-n-butylphthalate	11.76	149	32705	3.78	ng	99
74) Fluoranthene	12.39	202	113565	14.10	ng	94
77) Pyrene	12.61	202	98684	10.77	ng	96
80) Benzo(a)anthracene	13.79	228	57397	8.25	ng	97
82) Chrysene	13.79	228	57397	8.34	ng	96
83) Bis(2-ethylhexyl)phthalate	13.81	149	11687	2.51	ng	# 96
85) Indeno(1,2,3-cd)pyrene	16.46	276	18740	3.54	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	66738	12.67	ng	# 87
88) Benzo(k)fluoranthene	14.80	252	66738	14.55	ng	# 92
89) Benzo(a)pyrene	15.12	252	31938	7.16	ng	# 91
90) Dibenzo(a,h)anthracene	16.47	278	7554	2.03	ng	# 54
91) Benzo(g,h,i)perylene	16.85	276	20412	5.30	ng	95

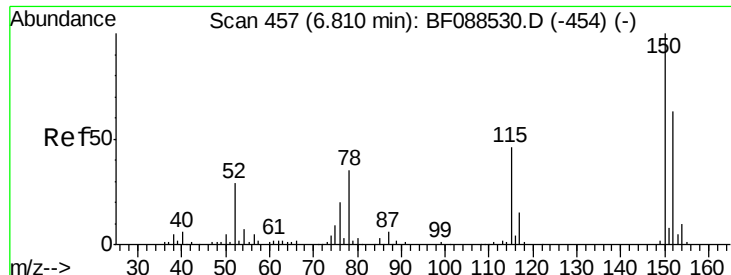
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 444

Delta R.T. -0.05 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Instrument :

BNA_F

ClientSampleId :

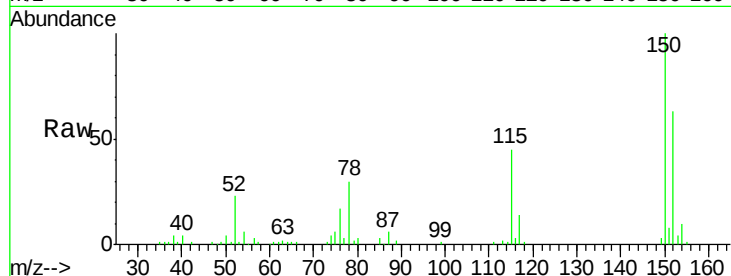
Tot Ion:152 Resp: 58654

Ion Ratio Lower Upper

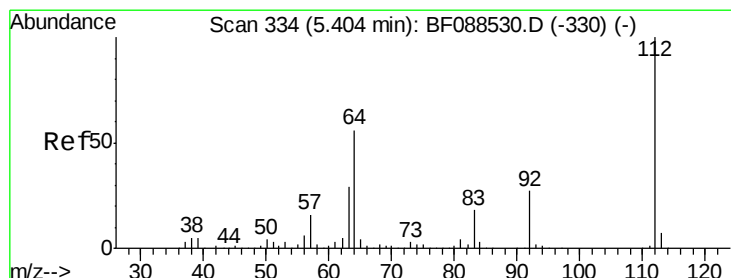
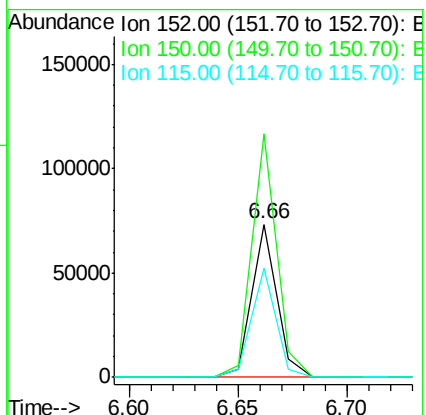
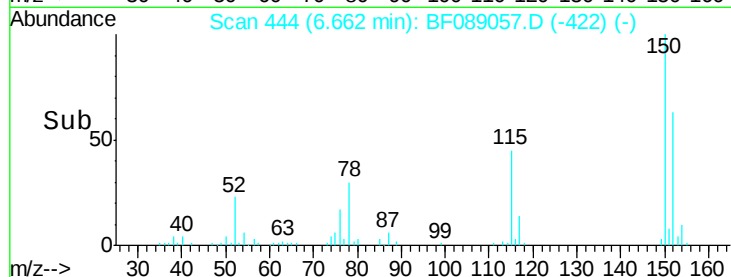
152 100

150 159.1 123.8 185.6

115 71.1 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: 99.48 ng

RT: 5.26 min Scan# 321

Delta R.T. -0.03 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

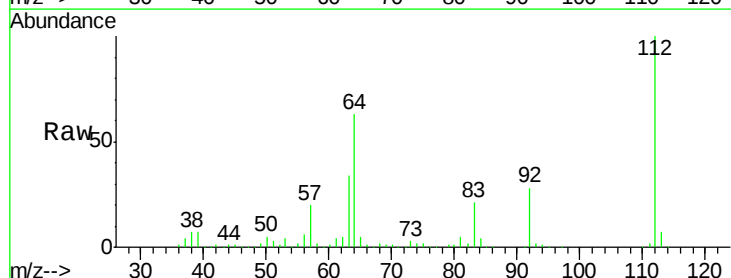
Tgt Ion:112 Resp: 389315

Ion Ratio Lower Upper

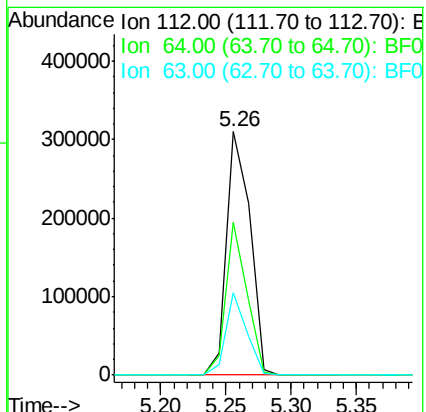
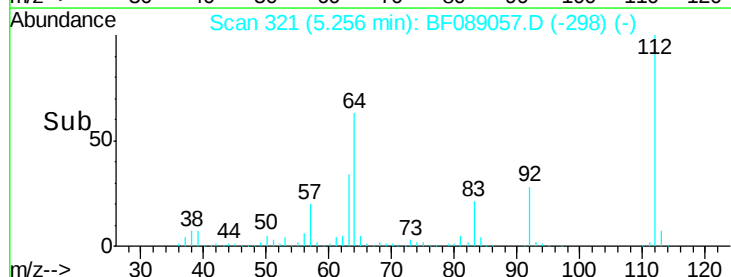
112 100

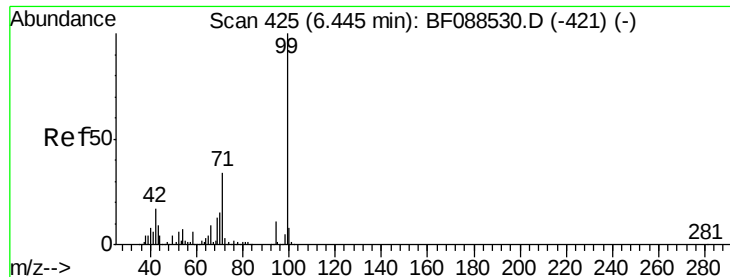
64 62.8 42.2 63.2

63 33.8 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: 92.37 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Instrument :

BNA_F

ClientSampled :

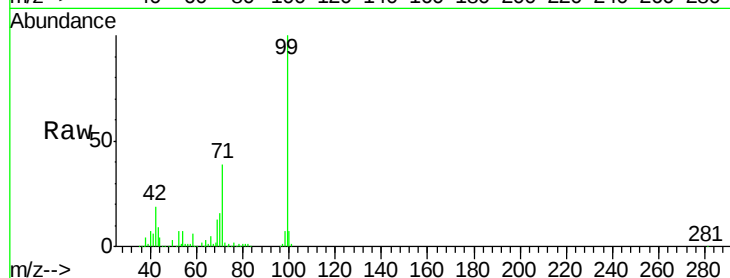
Tot Ion: 99 Resp: 467109

Ion Ratio Lower Upper

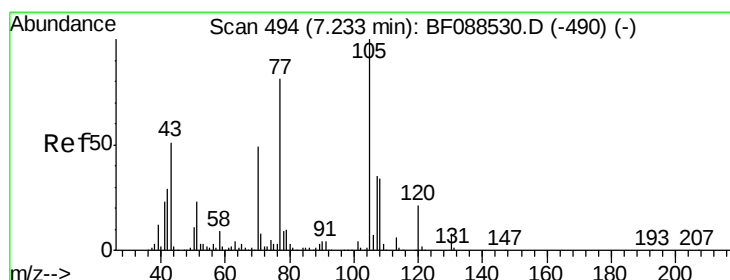
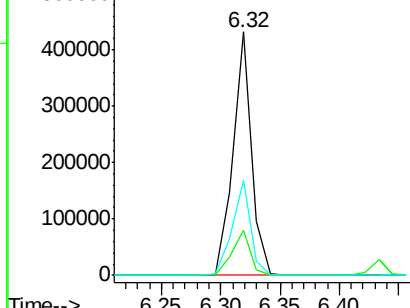
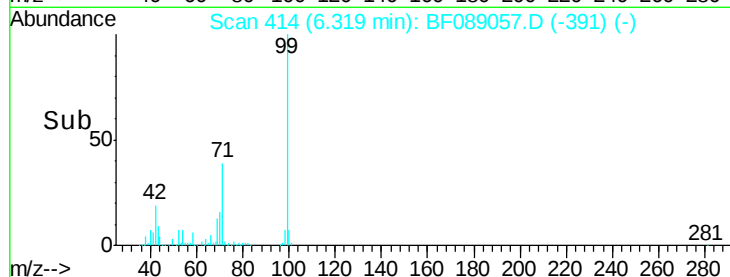
99 100

42 18.8 12.2 18.2#

71 39.0 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: 13.75 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.09 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Tgt Ion: 70 Resp: 46696

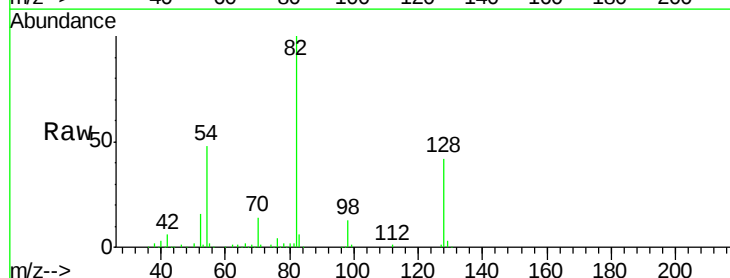
Ion Ratio Lower Upper

70 100

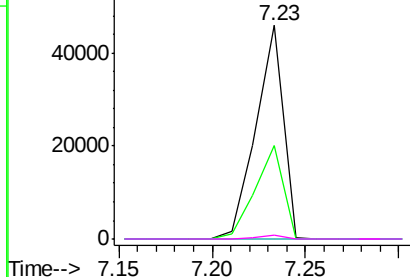
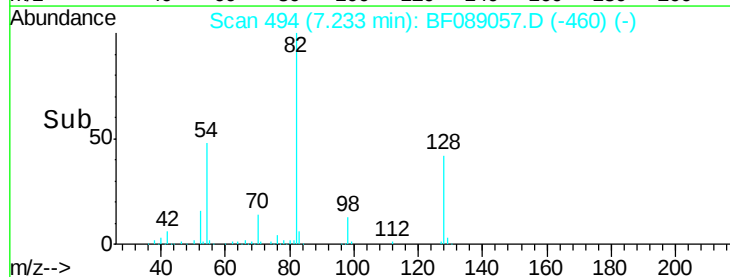
42 43.6 49.6 74.4#

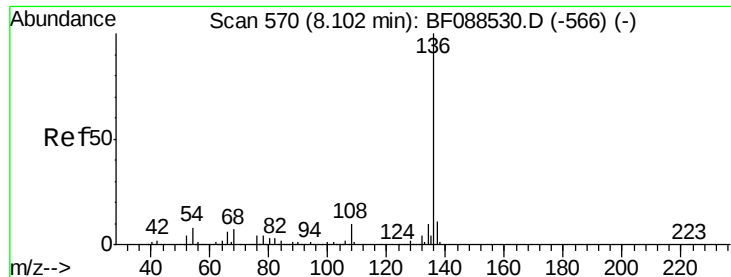
101 0.0 7.1 10.7#

130 1.9 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: 7.95 min Scan# 557

Delta R.T. -0.05 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 227303

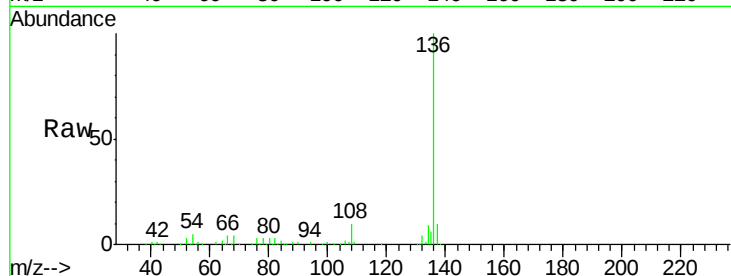
Ion Ratio Lower Upper

136 100

137 10.4 9.1 13.7

54 4.9 6.6 10.0#

68 4.2 5.1 7.7#

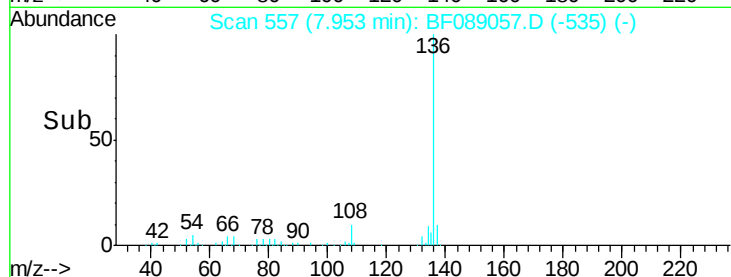


Abundance Ion 136.00 (135.70 to 136.70): E

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



Abundance

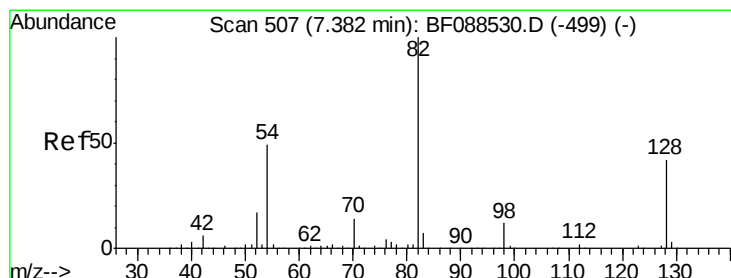
Ion 136.00 (135.70 to 136.70): E

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

Time-->



#23

Nitrobenzene-d5

Concen: 77.12 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

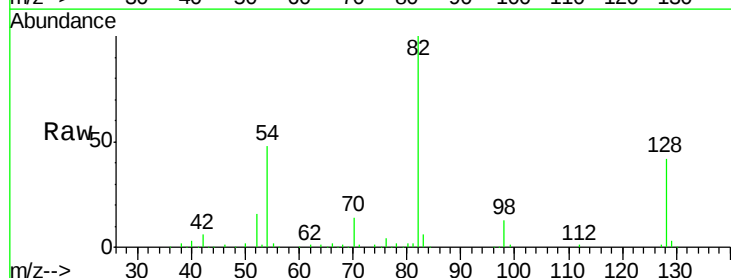
Tgt Ion: 82 Resp: 334514

Ion Ratio Lower Upper

82 100

128 42.3 35.9 53.9

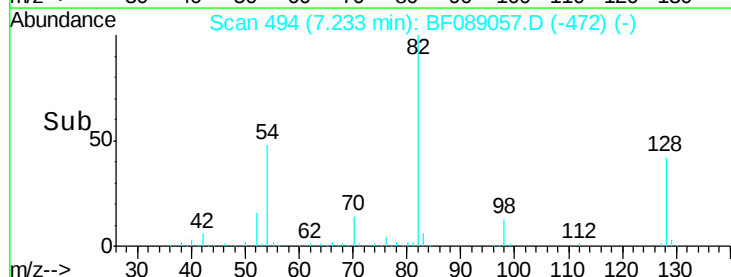
54 47.5 40.9 61.3



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



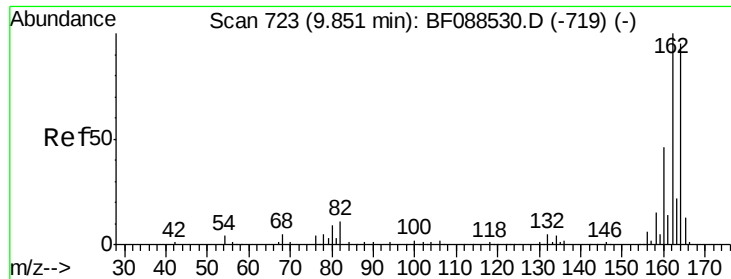
Abundance

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

Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.05 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Instrument :

BNA_F

ClientSampleId :

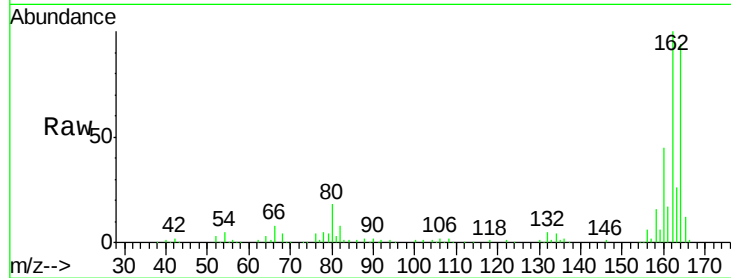
Tot Ion:164 Resp: 98881

Ion Ratio Lower Upper

164 100

162 106.3 85.4 128.2

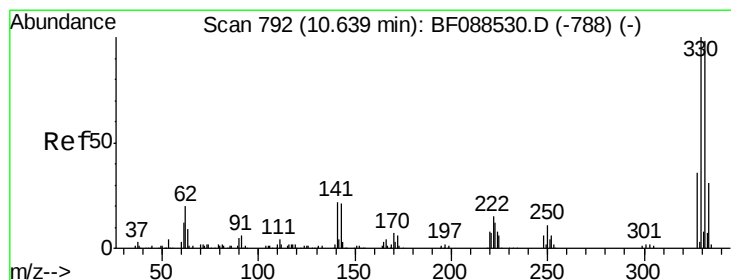
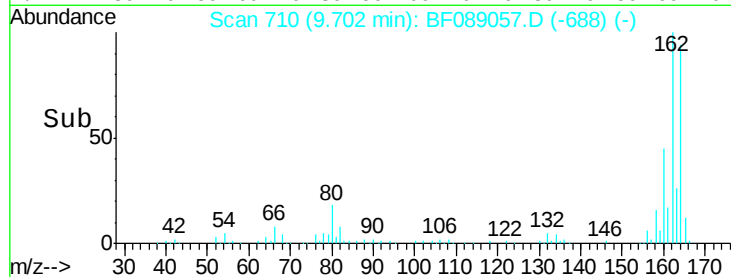
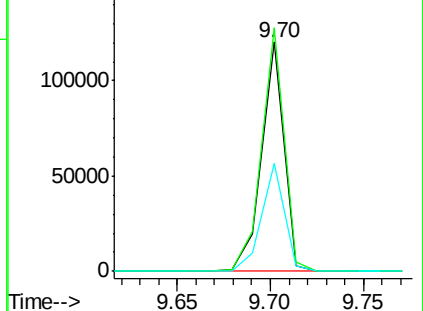
160 47.3 39.5 59.3



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: 77.70 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.05 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

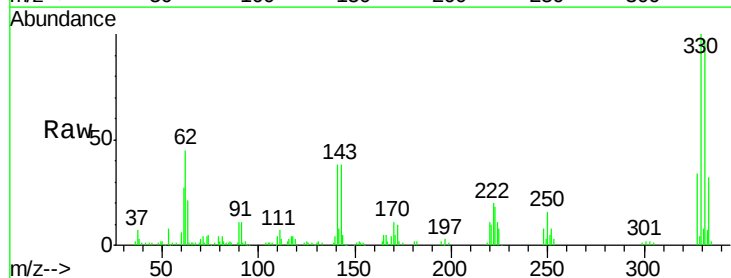
Tgt Ion:330 Resp: 71341

Ion Ratio Lower Upper

330 100

332 97.1 0.0 0.0#

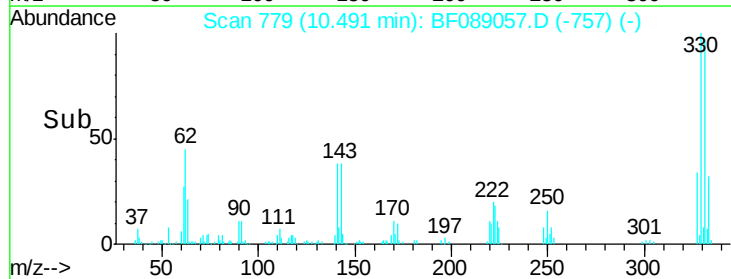
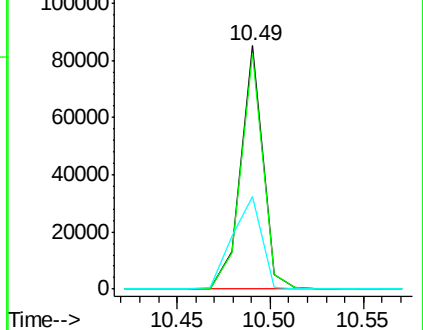
141 49.9 0.0 0.0#

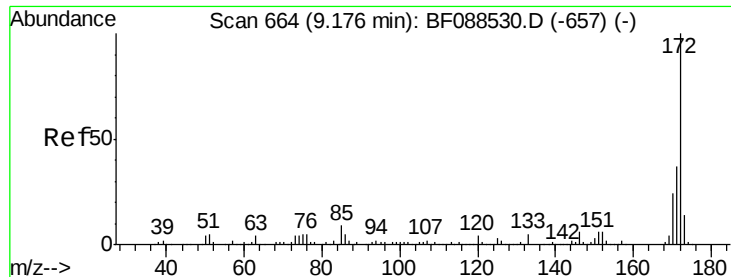


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

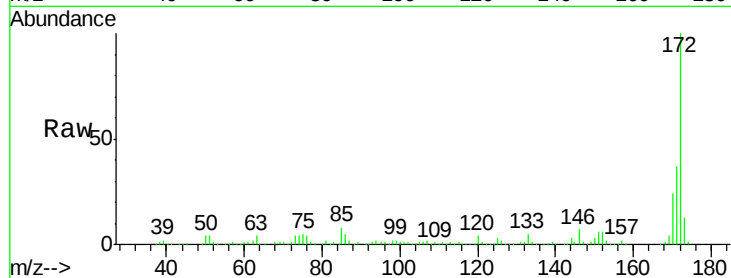




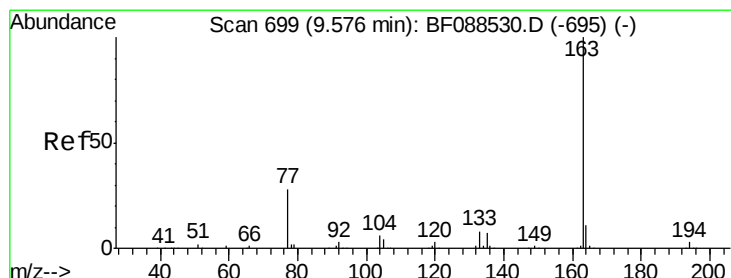
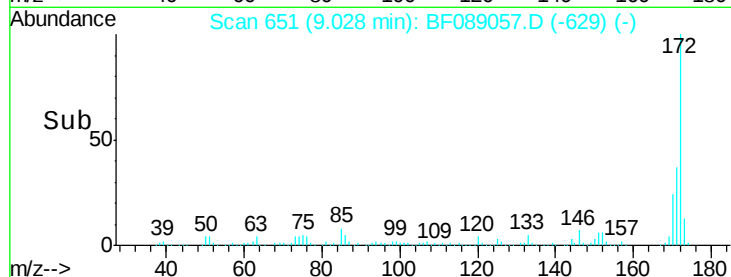
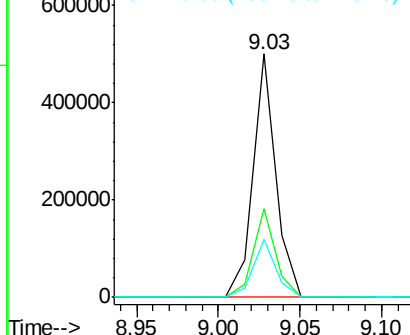
#44
2-Fluorobiphenyl
Concen: 77.65 ng
RT: 9.03 min Scan# 651
Delta R.T. -0.05 min
Lab File: BF089057.D
Acq: 16 Jul 2016 16:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 486094
Ion Ratio Lower Upper
172 100
171 36.6 28.6 43.0
170 24.1 19.2 28.8

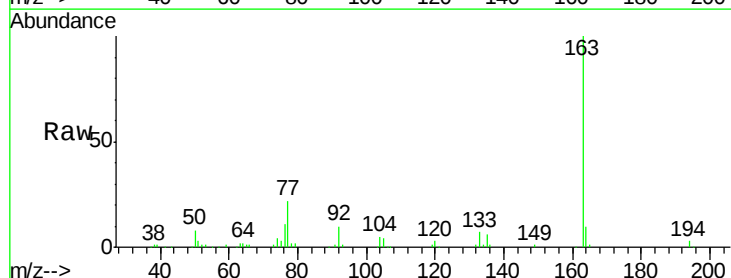


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

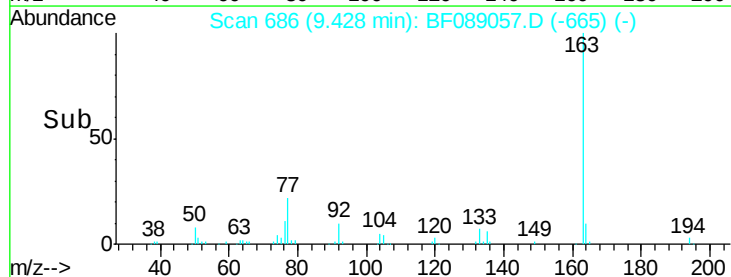
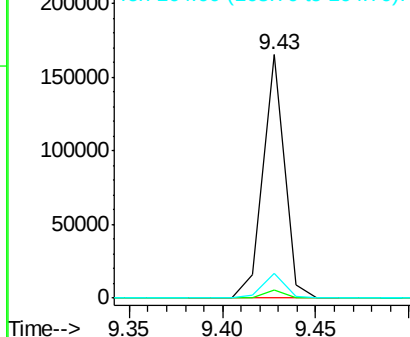


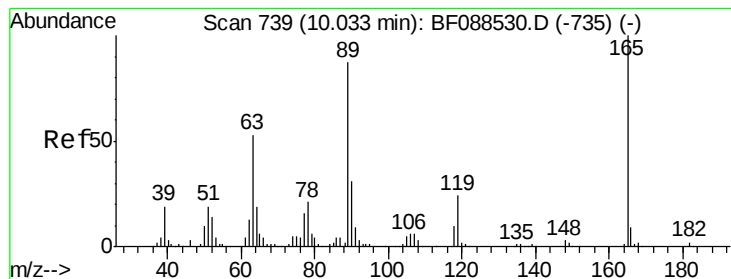
#49
Dimethylphthalate
Concen: 18.57 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.06 min
Lab File: BF089057.D
Acq: 16 Jul 2016 16:10

Tgt Ion:163 Resp: 130832
Ion Ratio Lower Upper
163 100
194 3.3 2.8 4.2
164 10.4 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

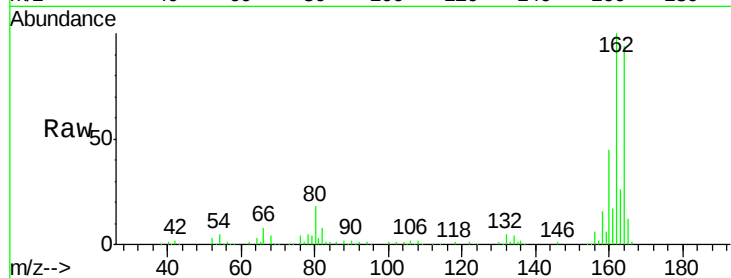




#56
 2,4-Dinitrotoluene
 Concen: 6.31 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.24 min
 Lab File: BF089057.D
 Acq: 16 Jul 2016 16:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.0	33.0#
89	2.1	41.1	61.7#
182	0.0	2.0	3.0#

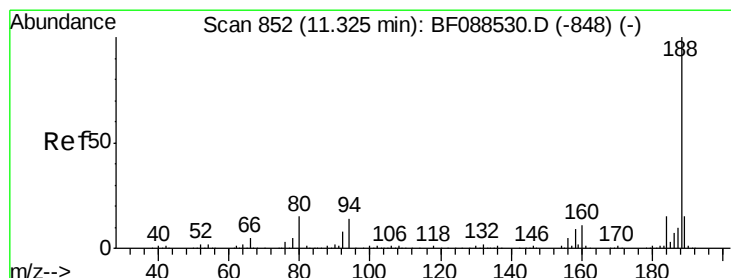
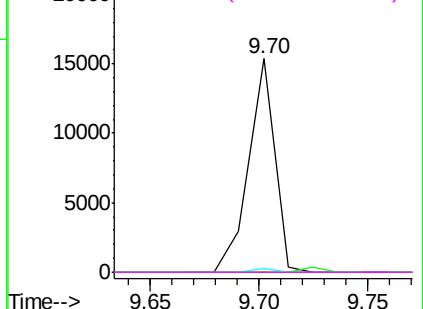
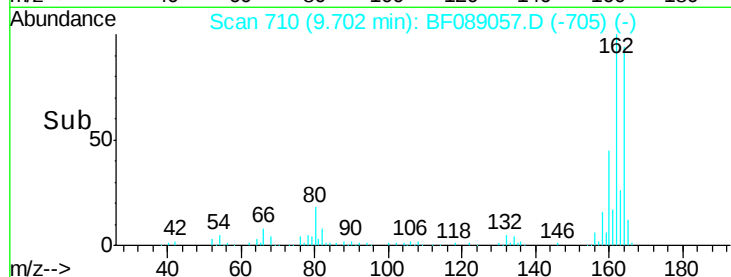


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

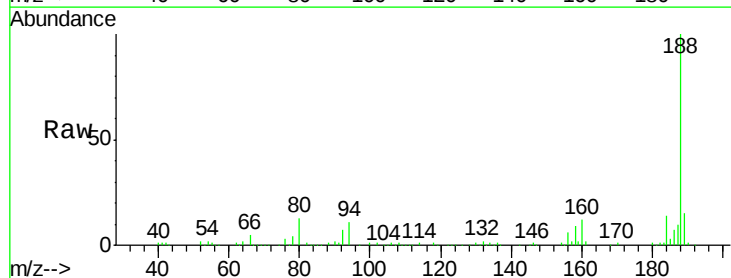
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.18 min Scan# 839
 Delta R.T. -0.05 min
 Lab File: BF089057.D
 Acq: 16 Jul 2016 16:10

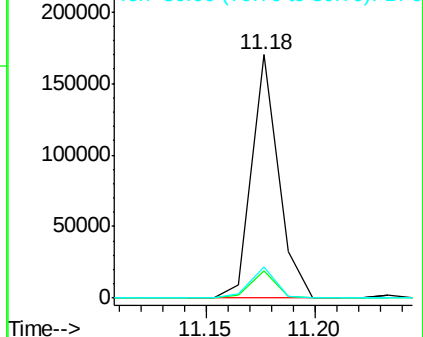
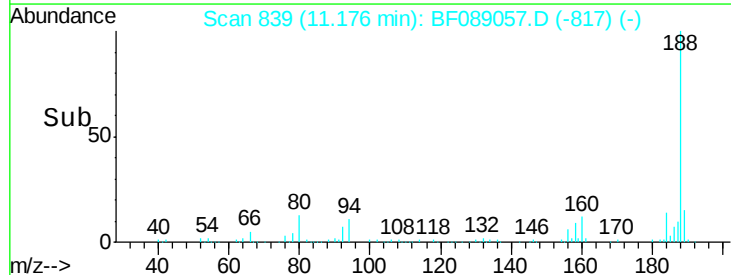
Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.1	9.0	13.6
80	13.0	10.0	15.0

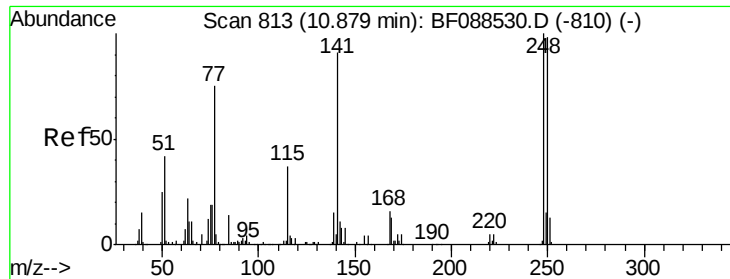


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

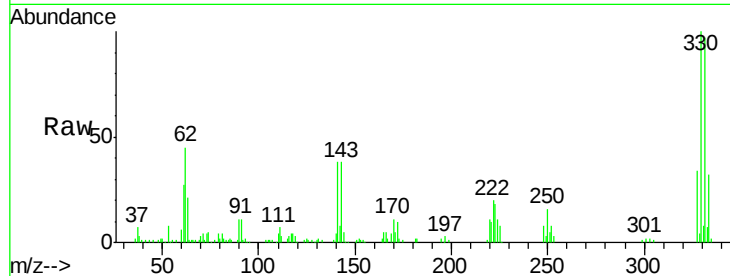




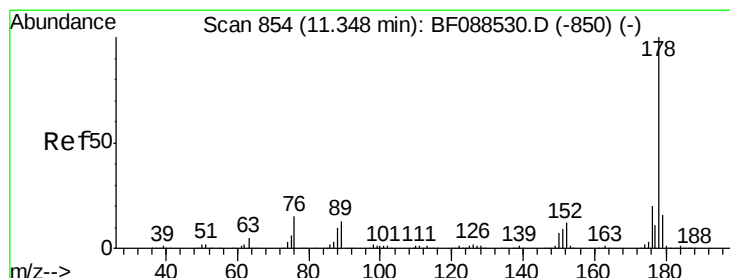
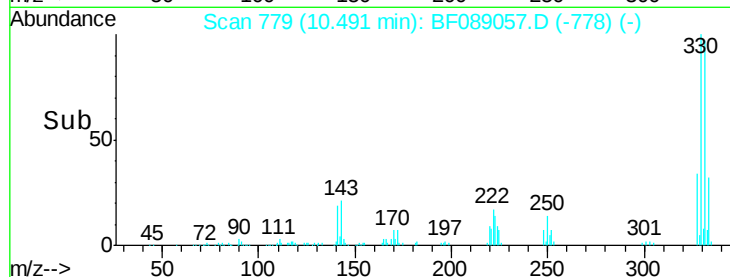
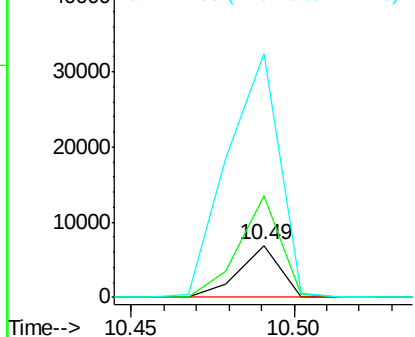
#66
4-Bromophenyl-phenylether
Concen: 4.07 ng
RT: 10.49 min Scan# 779
Delta R.T. -0.29 min
Lab File: BF089057.D
Acq: 16 Jul 2016 16:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:248 Resp: 5963
Ion Ratio Lower Upper
248 100
250 196.7 77.1 115.7#
141 471.4 50.6 76.0#

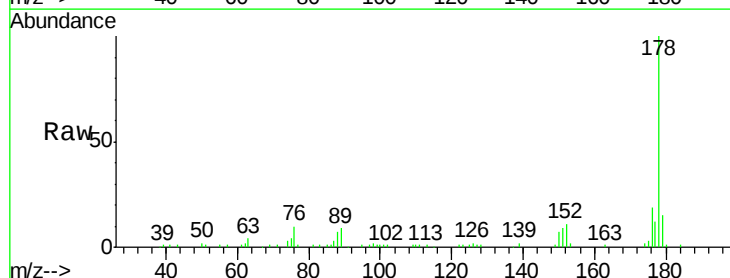


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

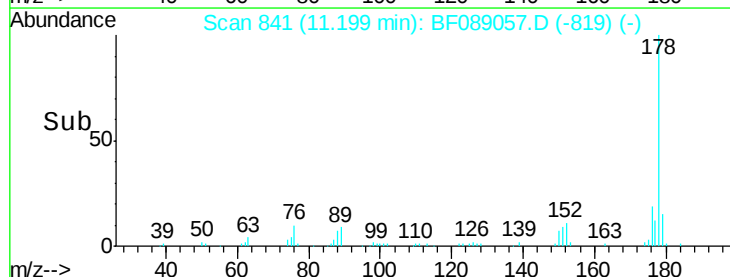
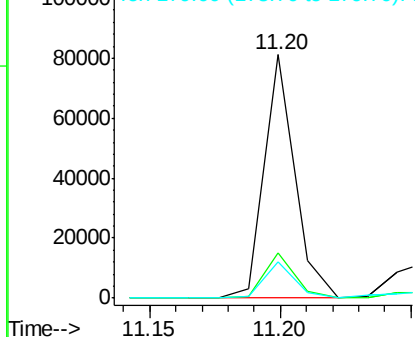


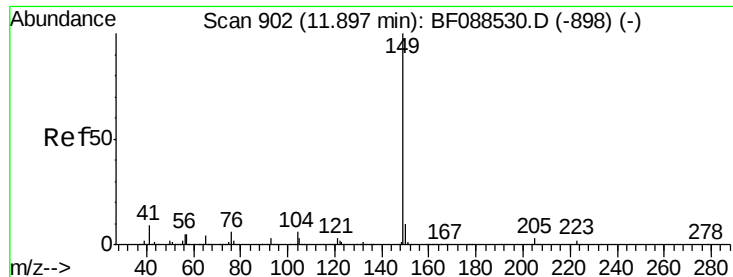
#70
Phenanthrene
Concen: 8.34 ng
RT: 11.20 min Scan# 841
Delta R.T. -0.05 min
Lab File: BF089057.D
Acq: 16 Jul 2016 16:10

Tgt Ion:178 Resp: 66258
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.6
179 15.1 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





#73

Di-n-butylphthalate

Concen: 3.78 ng

RT: 11.76 min Scan# 890

Delta R.T. -0.03 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Instrument :

BNA_F

ClientSampleId :

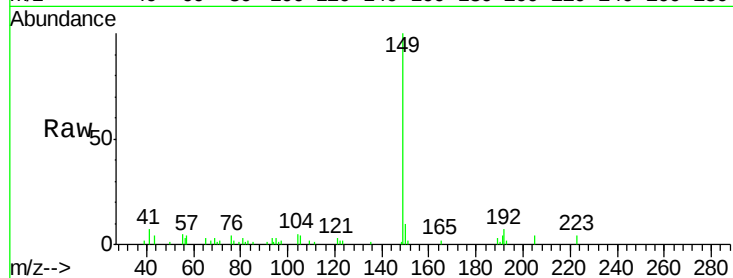
Tot Ion:149 Resp: 32705

Ion Ratio Lower Upper

149 100

150 9.7 7.8 11.6

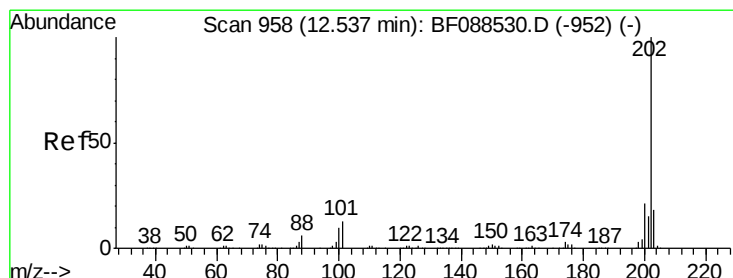
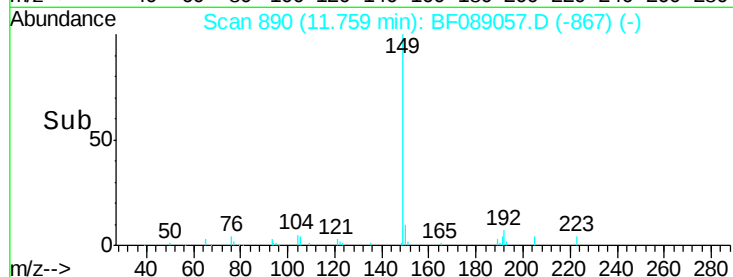
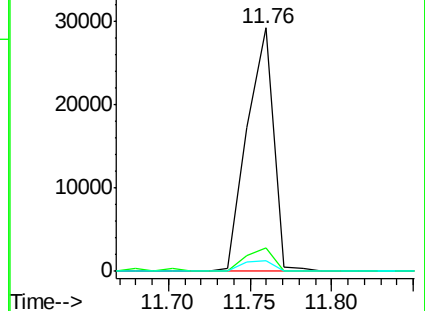
104 4.5 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 14.10 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

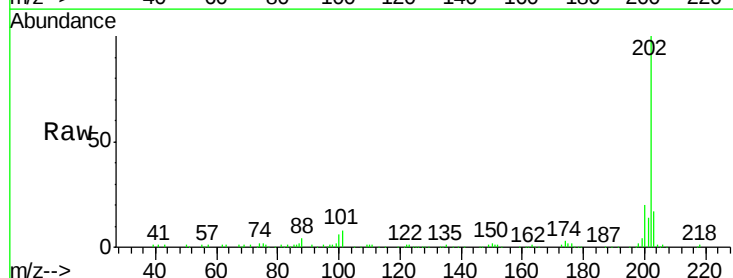
Tgt Ion:202 Resp: 113565

Ion Ratio Lower Upper

202 100

101 8.5 0.0 33.1

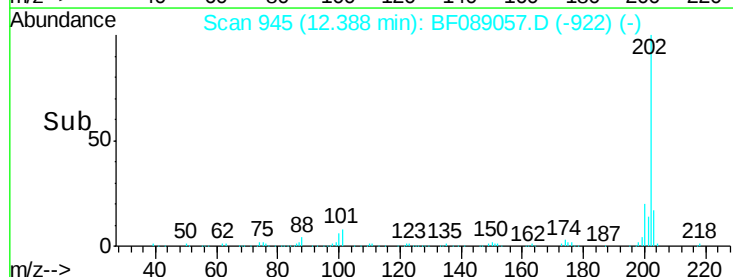
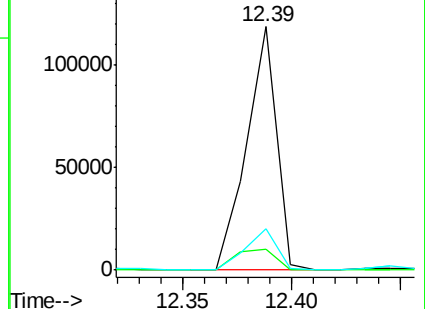
203 17.1 0.0 38.1

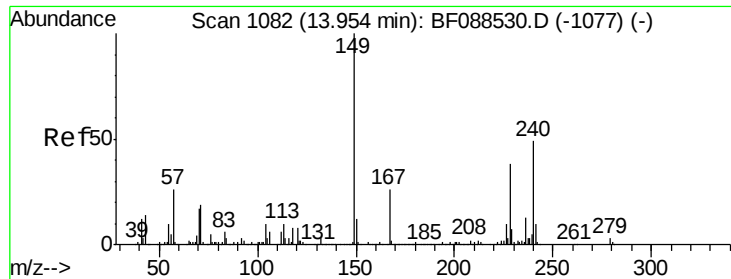


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

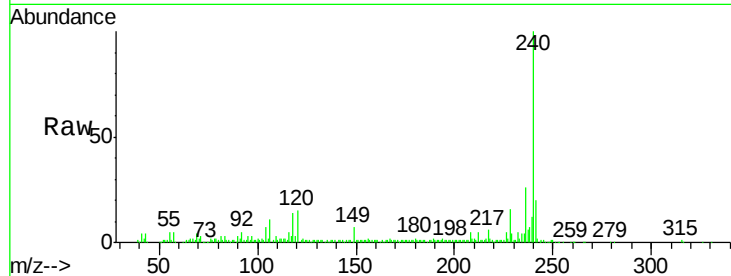




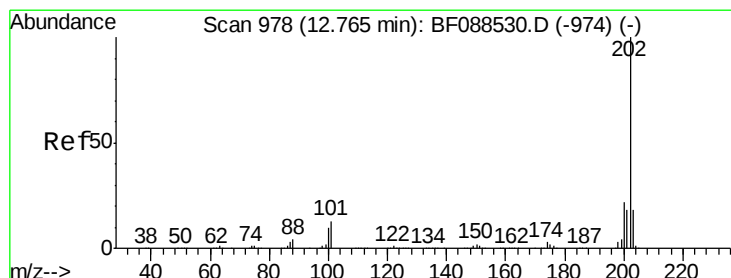
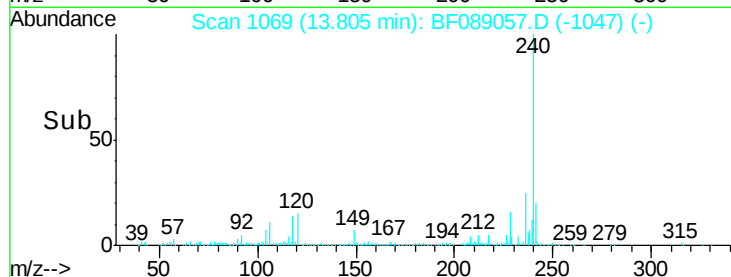
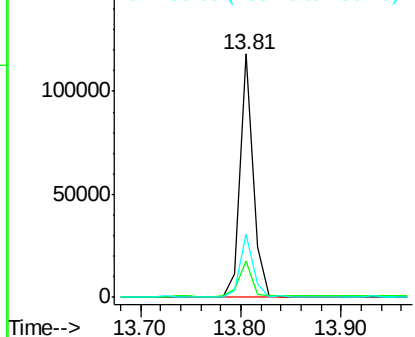
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.81 min Scan# 1069
Delta R.T. -0.05 min
Lab File: BF089057.D
Acq: 16 Jul 2016 16:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 108045
Ion Ratio Lower Upper
240 100
120 14.8 6.8 10.2#
236 25.8 20.2 30.2

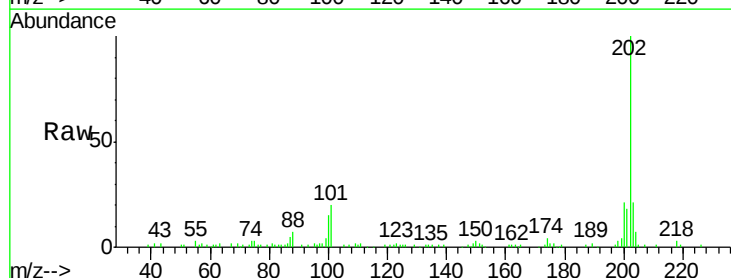


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

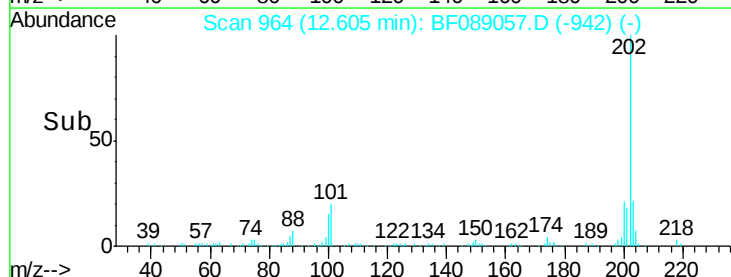
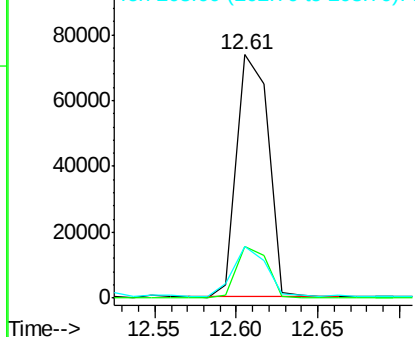


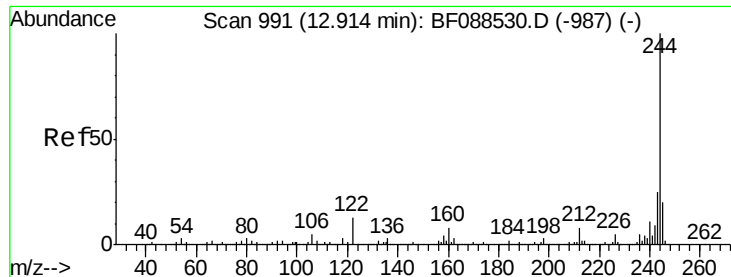
#77
Pyrene
Concen: 10.77 ng
RT: 12.61 min Scan# 964
Delta R.T. -0.05 min
Lab File: BF089057.D
Acq: 16 Jul 2016 16:10

Tgt Ion:202 Resp: 98684
Ion Ratio Lower Upper
202 100
200 21.3 17.4 26.2
203 21.4 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: 64.70 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Instrument :

BNA_F

ClientSampled :

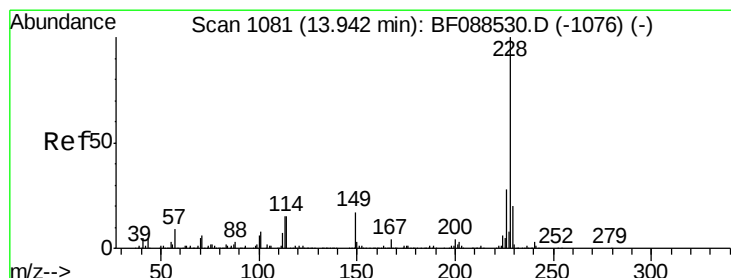
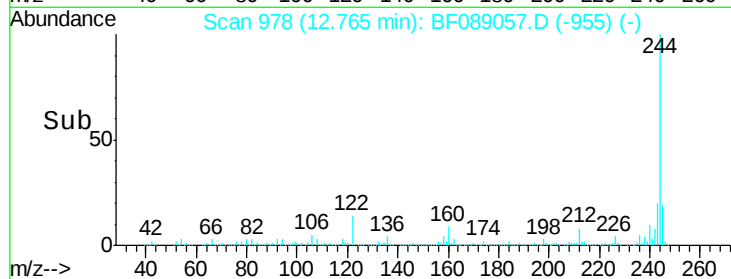
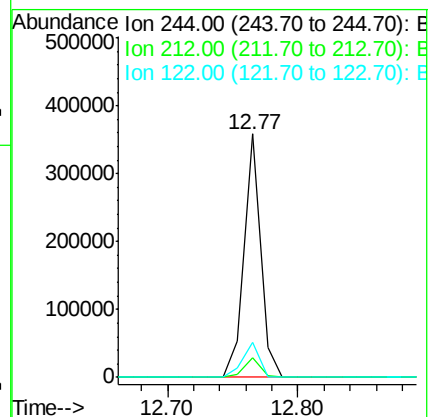
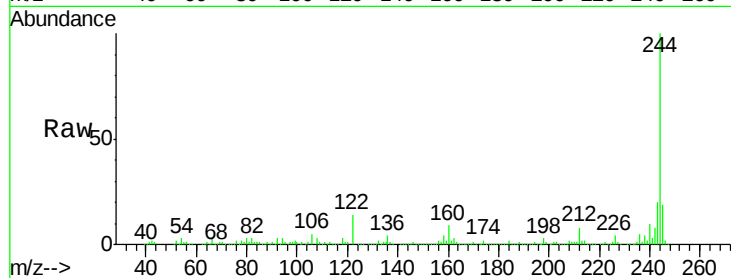
Tot Ion:244 Resp: 313852

Ion Ratio Lower Upper

244 100

212 8.1 6.0 9.0

122 14.4 11.2 16.8



#80

Benzo(a)anthracene

Concen: 8.25 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.05 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

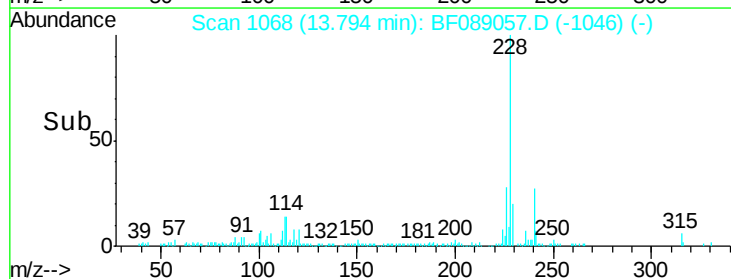
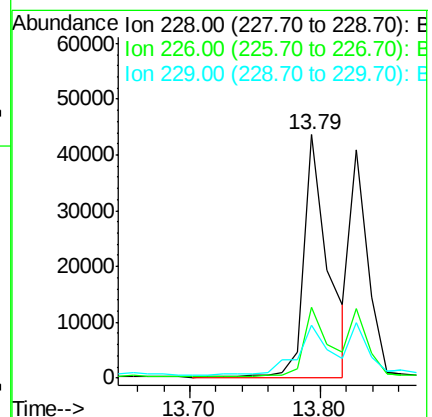
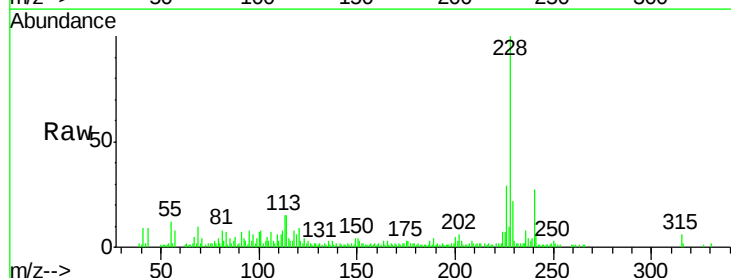
Tgt Ion:228 Resp: 57397

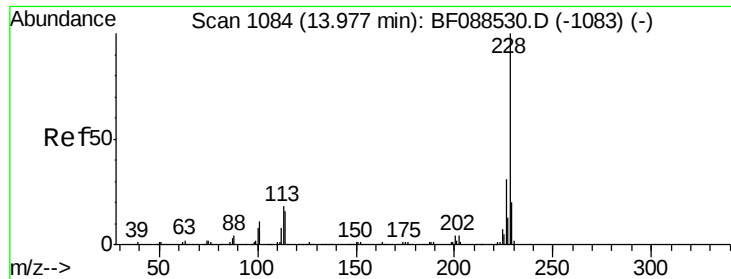
Ion Ratio Lower Upper

228 100

226 29.1 22.3 33.5

229 21.9 16.0 24.0





#82

Chrysene

Concen: 8.34 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.08 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Instrument :

BNA_F

ClientSampleId :

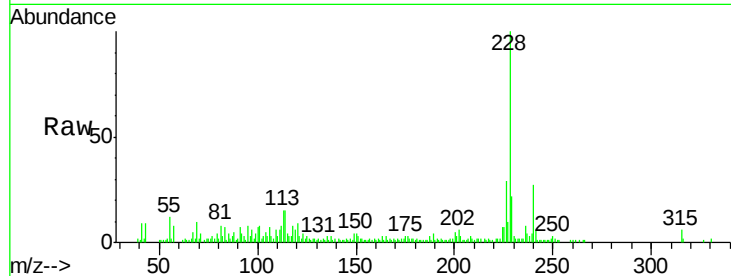
Tot Ion:228 Resp: 57397

Ion Ratio Lower Upper

228 100

226 29.1 25.4 38.2

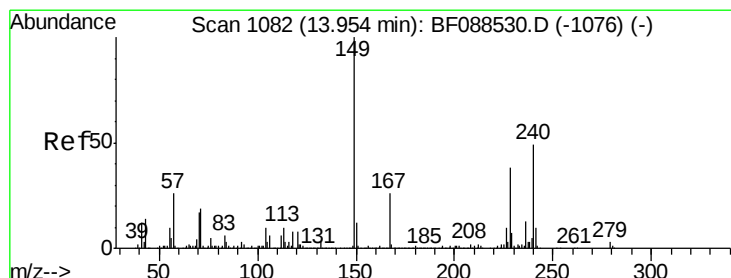
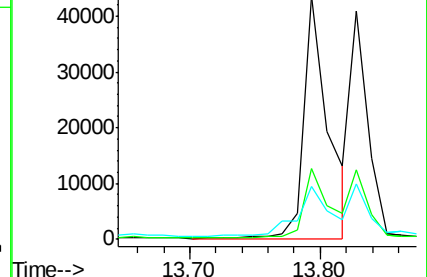
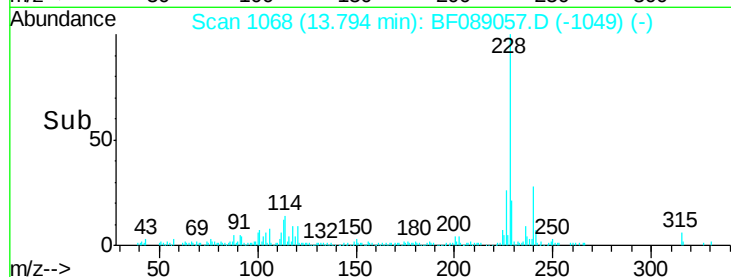
229 21.9 16.3 24.5



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.51 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

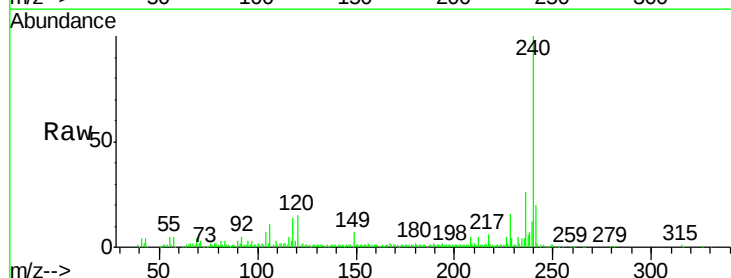
Tgt Ion:149 Resp: 11687

Ion Ratio Lower Upper

149 100

167 27.8 20.5 30.7

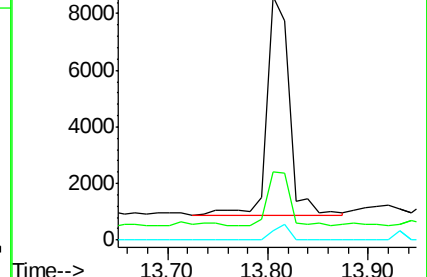
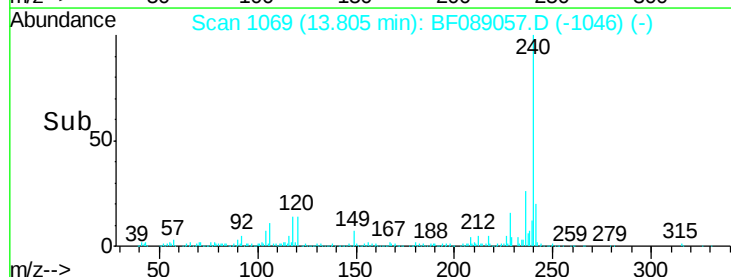
279 3.8 2.0 3.0#

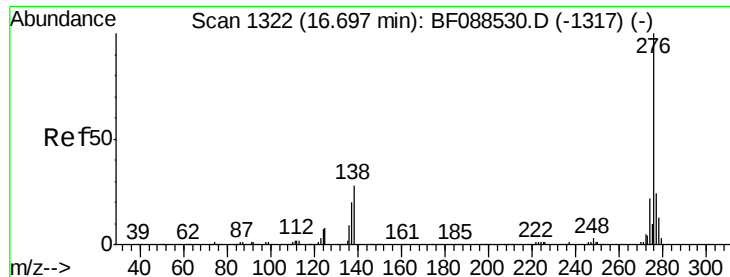


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

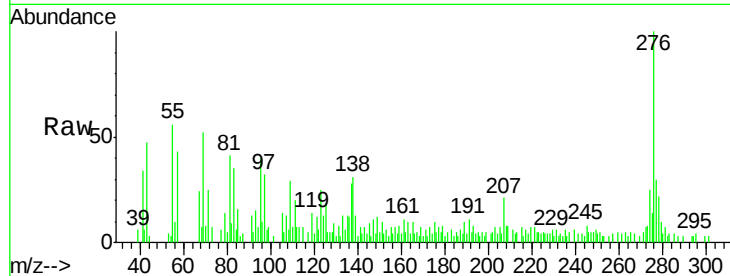




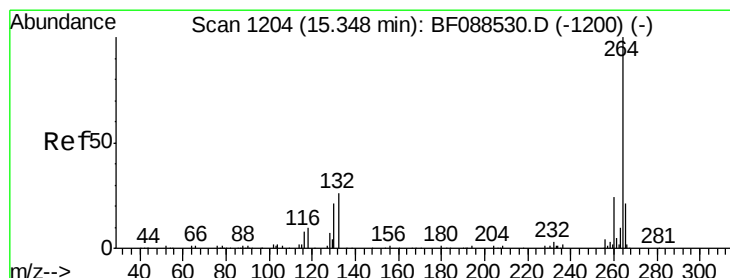
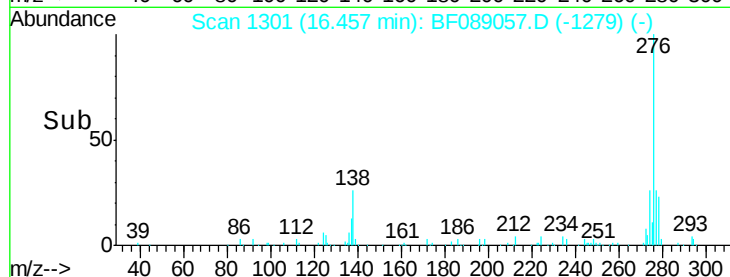
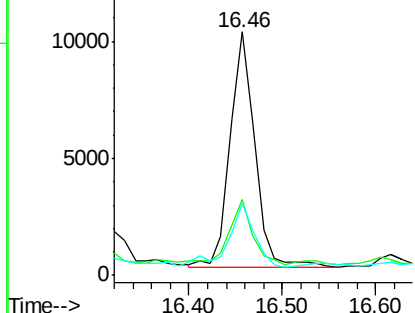
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.54 ng
 RT: 16.46 min Scan# 1301
 Delta R.T. -0.05 min
 Lab File: BF089057.D
 Acq: 16 Jul 2016 16:10

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:276 Resp: 18740
 Ion Ratio Lower Upper
 276 100
 138 26.7 0.0 0.0#
 277 28.8 0.0 0.0#

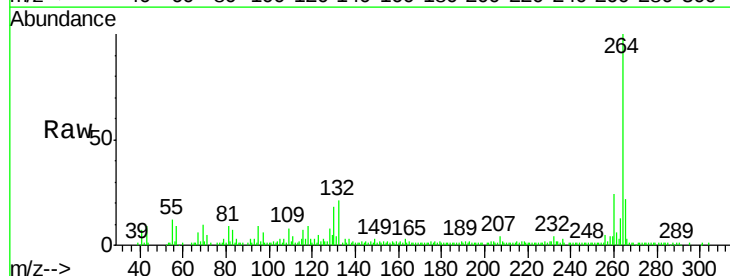


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

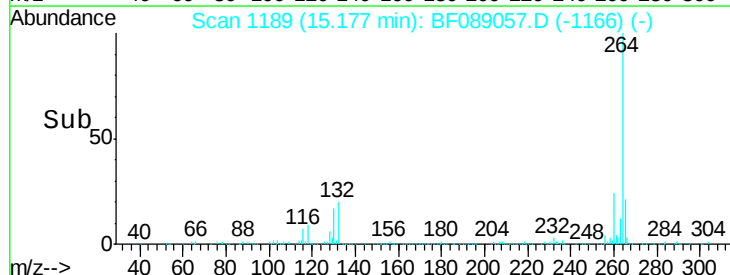
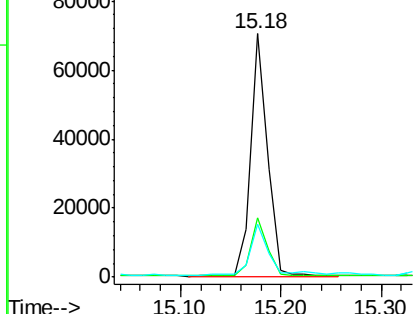


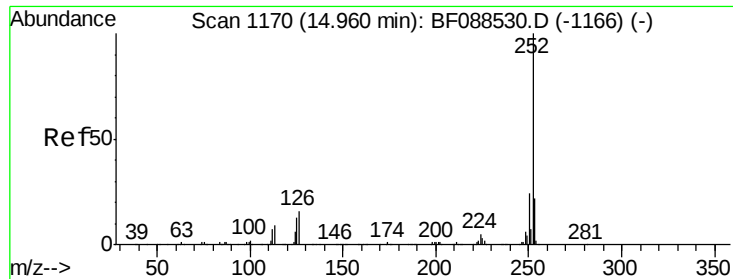
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.18 min Scan# 1189
 Delta R.T. -0.03 min
 Lab File: BF089057.D
 Acq: 16 Jul 2016 16:10

Tgt Ion:264 Resp: 83988
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.2 28.8
 265 22.0 16.9 25.3



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: 12.67 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.03 min

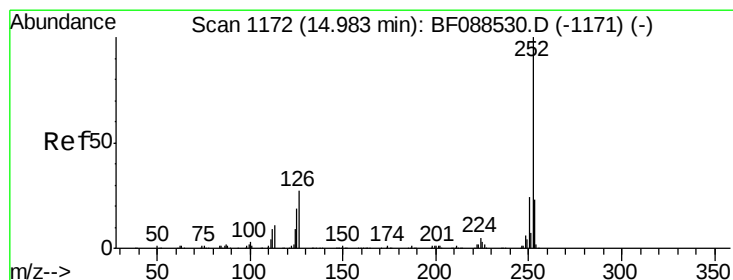
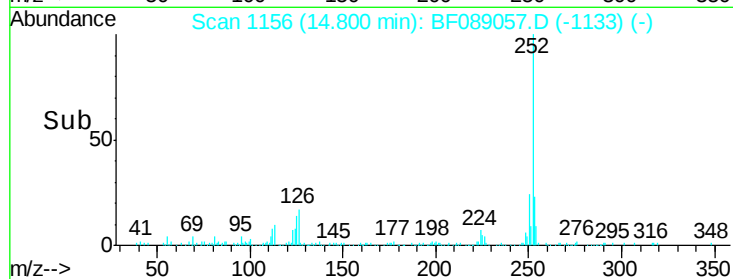
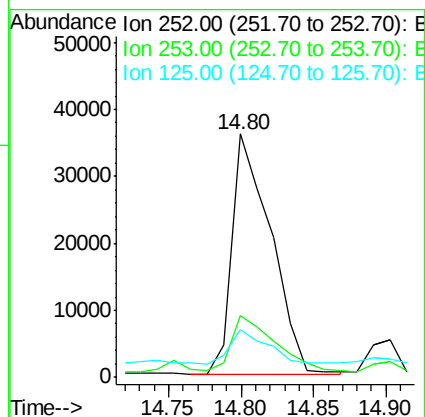
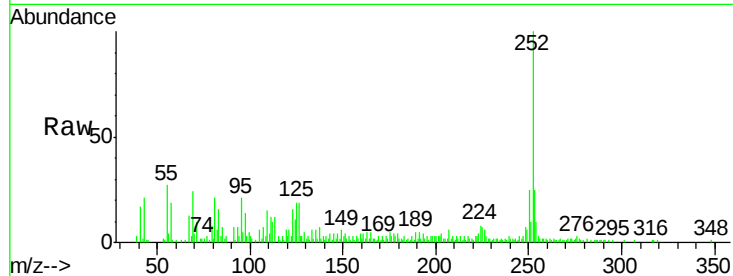
Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 66738

Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.4	26.2
125	19.4	7.1	10.7#



#88

Benzo(k)fluoranthene

Concen: 14.55 ng

RT: 14.80 min Scan# 1156

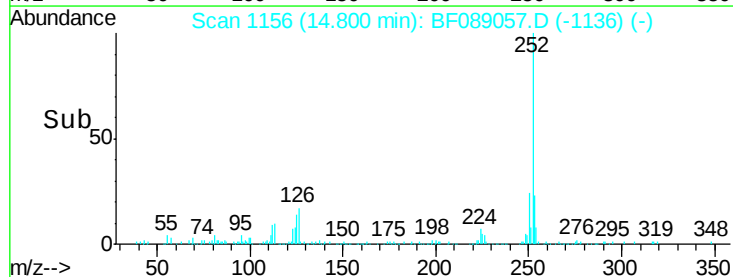
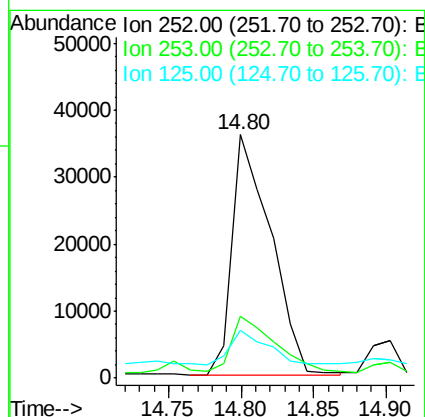
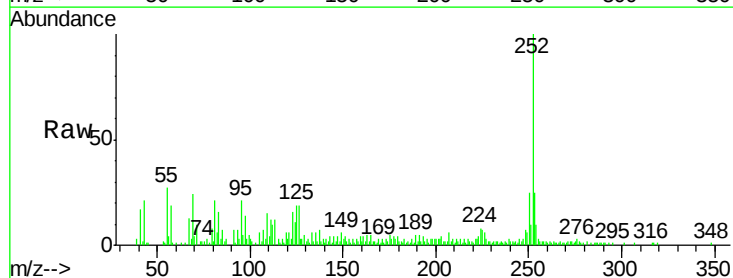
Delta R.T. -0.07 min

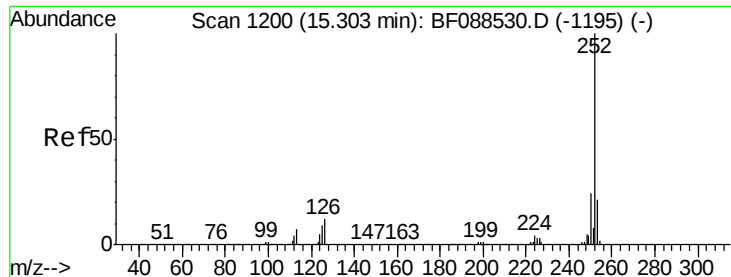
Lab File: BF089057.D

Acq: 16 Jul 2016 16:10

Tgt Ion:252 Resp: 66738

Ion	Ratio	Lower	Upper
252	100		
253	25.2	18.0	27.0
125	19.4	11.2	16.8#

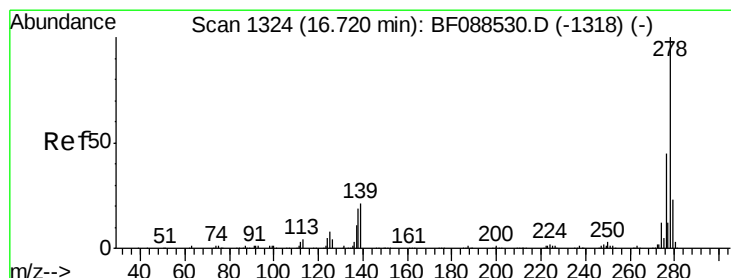
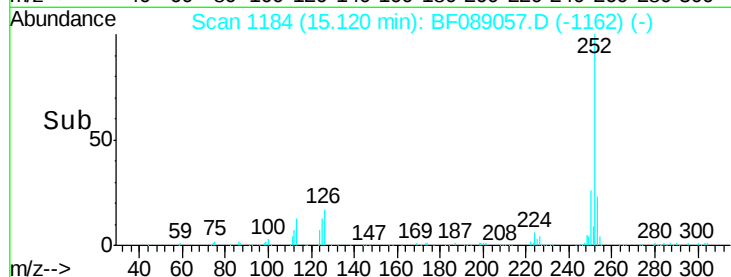
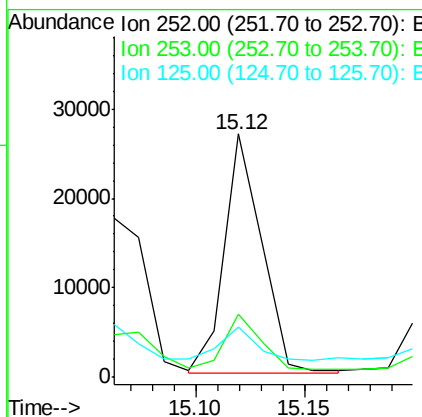
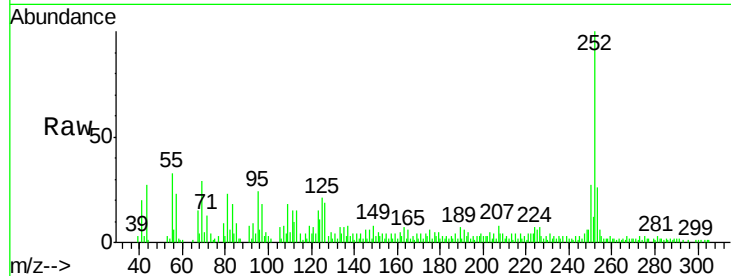




#89
Benzo(a)pyrene
Concen: 7.16 ng
RT: 15.12 min Scan# 1184
Delta R.T. -0.05 min
Lab File: BF089057.D
Acq: 16 Jul 2016 16:10

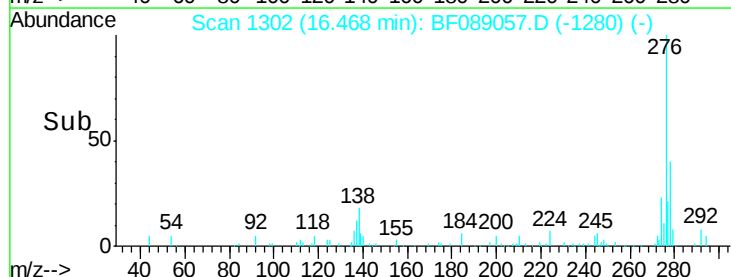
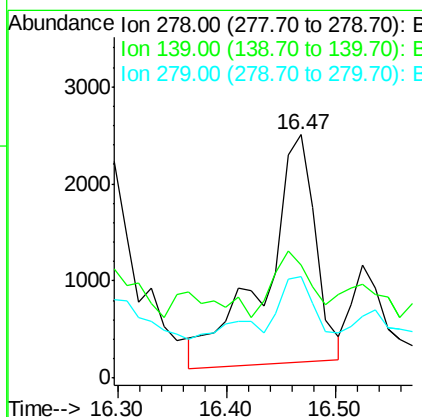
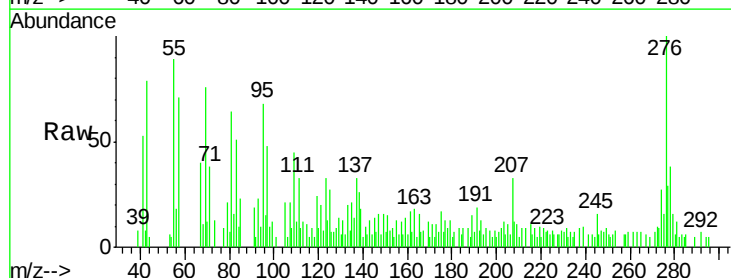
Instrument :
BNA_F
ClientSampleId :

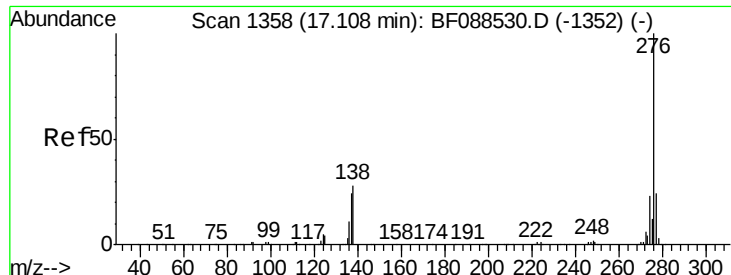
Tot Ion:252 Resp: 31938
Ion Ratio Lower Upper
252 100
253 26.1 17.9 26.9
125 20.6 12.5 18.7#



#90
Dibenzo(a,h)anthracene
Concen: 2.03 ng
RT: 16.47 min Scan# 1302
Delta R.T. -0.05 min
Lab File: BF089057.D
Acq: 16 Jul 2016 16:10

Tgt Ion:278 Resp: 7554
Ion Ratio Lower Upper
278 100
139 46.7 15.7 23.5#
279 41.5 19.4 29.2#





#91
 Benzo(a,h,i)perylene
 Concen: 5.30 ng
 RT: 16.85 min Scan# 1335
 Delta R.T. -0.05 min
 Lab File: BF089057.D
 Acq: 16 Jul 2016 16:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.0	18.9	28.3
138	25.2	21.4	32.2

