

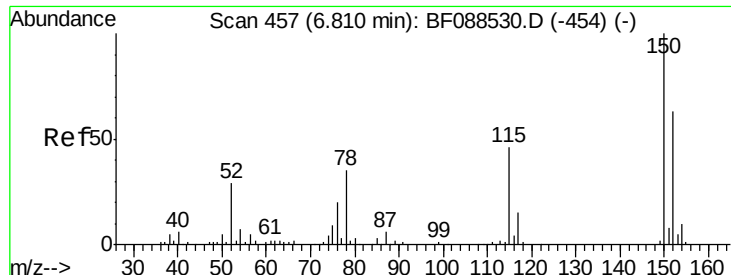
Data Path : V:\HPCHEM1\BNA F\DATA\BF071116\
 Data File : BF088901.D
 Acq On : 11 Jul 2016 16:03
 Operator : UM/SJ
 Sample : H3948-03
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 11 17:16:10 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 18:51:20 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	64865	20.00	ng	-0.02
21) Naphthalene-d8	8.00	136	258696	20.00	ng	-0.02
38) Acenaphthene-d10	9.75	164	106133	20.00	ng	-0.02
63) Phenanthrene-d10	11.22	188	167217	20.00	ng	-0.02
75) Chrysene-d12	13.85	240	129040	20.00	ng	-0.02
86) Perylene-d12	15.22	264	118763	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	408730	94.44	ng	-0.02
7) Phenol-d6	6.35	99	533505	95.40	ng	-0.02
23) Nitrobenzene-d5	7.28	82	394727	79.96	ng	-0.02
41) 2,4,6-Tribromophenol	10.52	330	103244	104.76	ng	-0.03
44) 2-Fluorobiphenyl	9.07	172	542413	80.73	ng	-0.02
78) Terphenyl-d14	12.80	244	354798	61.24	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.28	70	53835	14.33	ng	# 68
36) 4-Chloro-3-methylphenol	8.57	107	36460	8.97	ng	# 19
49) Dimethylphthalate	9.47	163	135525	17.92	ng	98
51) Acenaphthene	9.77	154	17816	2.65	ng	97
55) 4-Nitrophenol	9.94	139	7359	4.55	ng	# 11
57) Fluorene	10.28	166	33129	4.88	ng	99
66) 4-Bromophenyl-phenylether	10.52	248	6647	3.94	ng	# 1
70) Phenanthrene	11.24	178	241742	26.45	ng	99
71) Anthracene	11.29	178	85541	9.41	ng	98
74) Fluoranthene	12.42	202	325429	35.12	ng	97
77) Pyrene	12.65	202	307652	28.12	ng	99
80) Benzo(a)anthracene	13.84	228	174734	21.03	ng	99
82) Chrysene	13.84	228	174734	21.26	ng	96
85) Indeno(1,2,3-cd)pyrene	16.50	276	64013	10.12	ng	# 100
87) Benzo(b)fluoranthene	14.85	252	216539	29.07	ng	# 93
88) Benzo(k)fluoranthene	14.85	252	216079	33.32	ng	98
89) Benzo(a)pyrene	15.11	252	84082	13.33	ng	97
90) Dibenzo(a,h)anthracene	16.51	278	17893	3.40	ng	# 88
91) Benzo(a,h,i)perylene	16.89	276	59150	10.85	ng	96

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.71 min Scan# 448

Delta R.T. -0.02 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampleId :

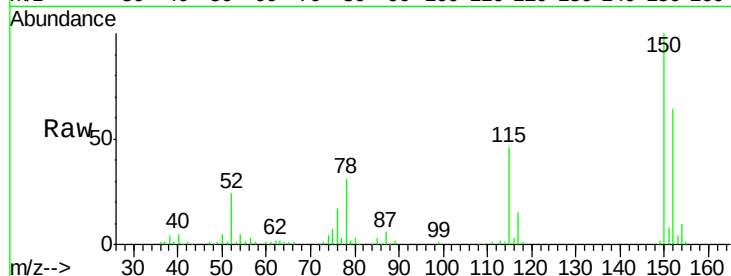
Tot Ion:152 Resp: 64865

Ion Ratio Lower Upper

152 100

150 157.3 123.8 185.6

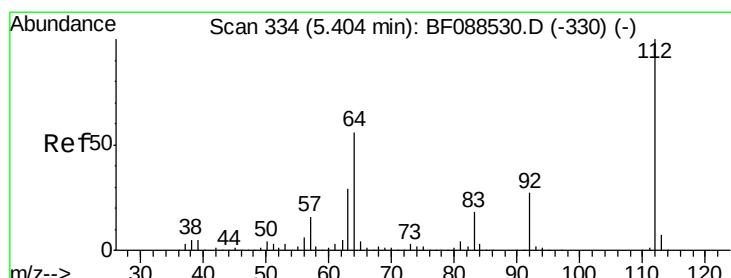
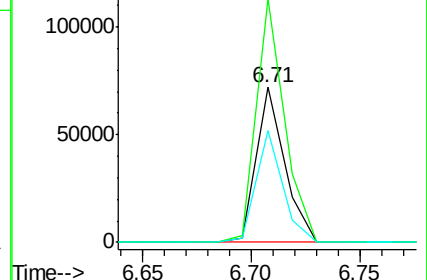
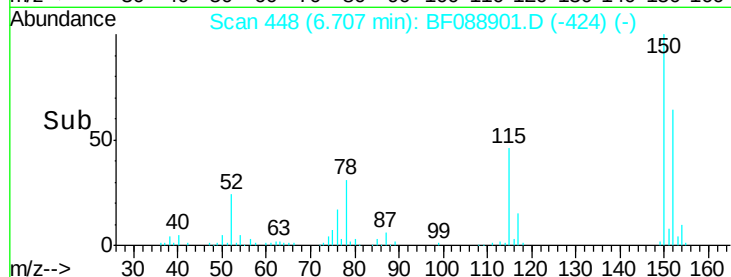
115 72.0 39.6 59.4#



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: 94.44 ng

RT: 5.30 min Scan# 325

Delta R.T. -0.02 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

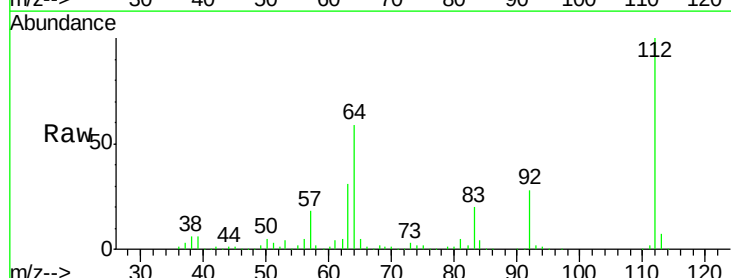
Tgt Ion:112 Resp: 408730

Ion Ratio Lower Upper

112 100

64 58.5 42.2 63.2

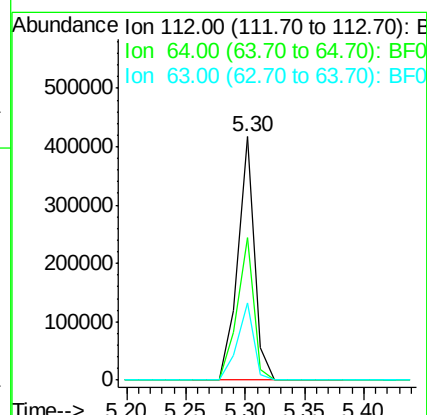
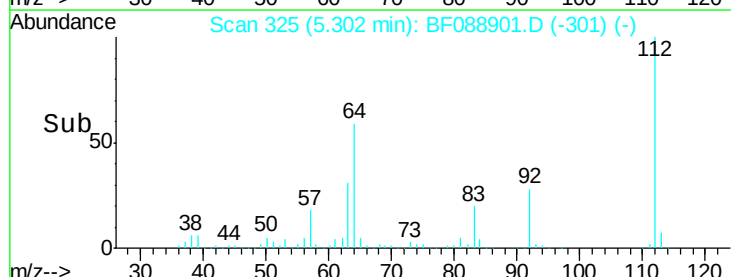
63 31.5 21.8 32.8

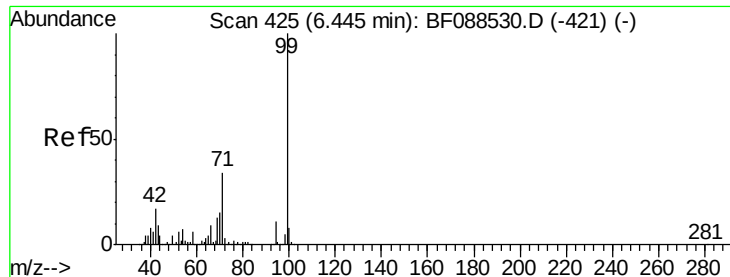


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 95.40 ng

RT: 6.35 min Scan# 417

Delta R.T. -0.02 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampleId :

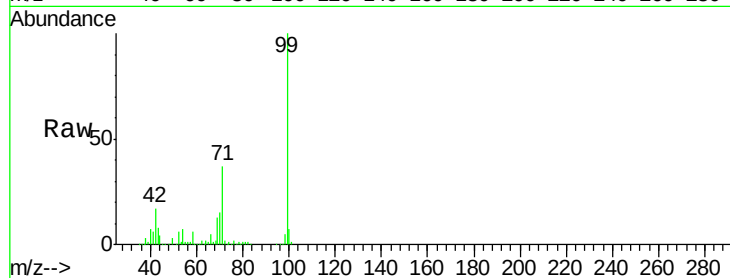
Tot Ion: 99 Resp: 533505

Ion Ratio Lower Upper

99 100

42 16.9 12.2 18.2

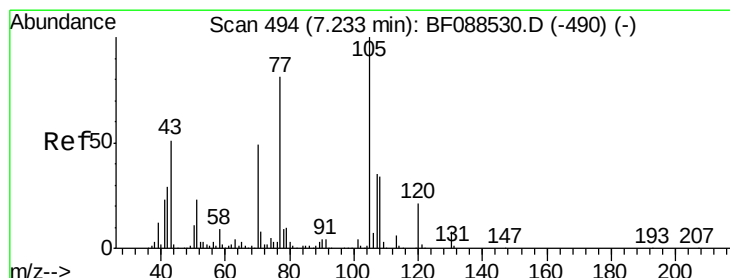
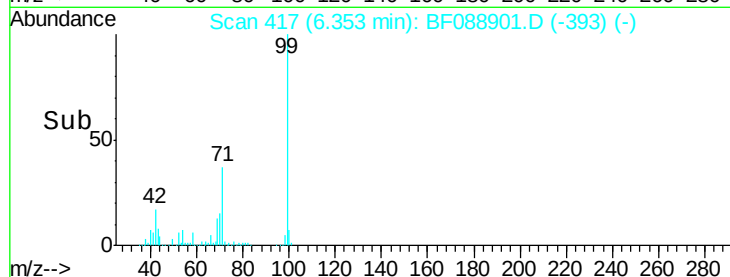
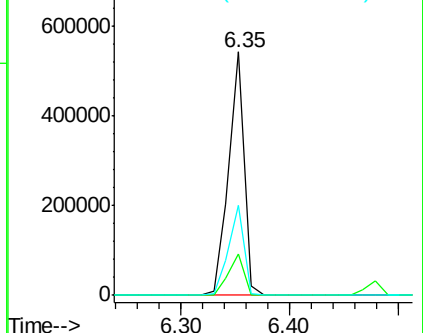
71 37.2 23.4 35.0#



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: 14.33 ng

RT: 7.28 min Scan# 498

Delta R.T. 0.11 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Tgt Ion: 70 Resp: 53835

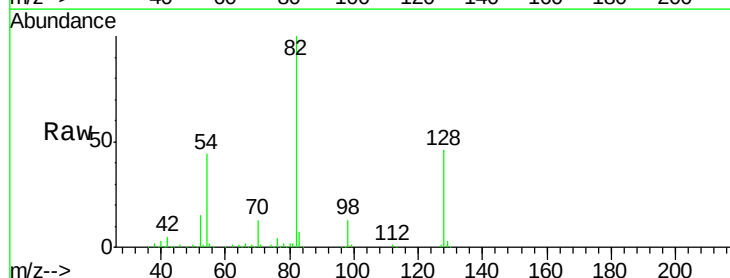
Ion Ratio Lower Upper

70 100

42 38.5 49.6 74.4#

101 0.0 7.1 10.7#

130 2.0 15.4 23.2#

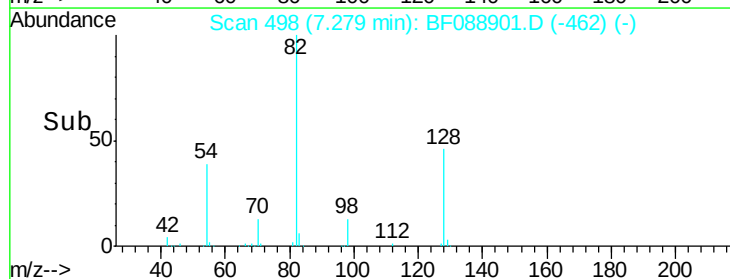
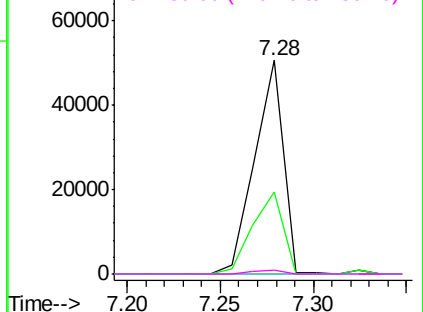


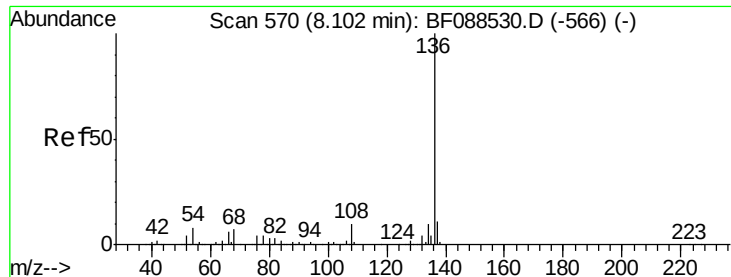
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.00 min Scan# 561

Delta R.T. -0.02 min

Lab File: BF088901.D

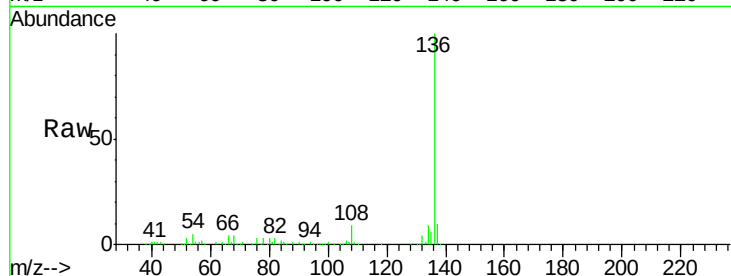
Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136	Resp:	258696
Ion Ratio	Lower	Upper
136	100	
137	10.2	9.1 13.7
54	5.0	6.6 10.0#
68	4.4	5.1 7.7#

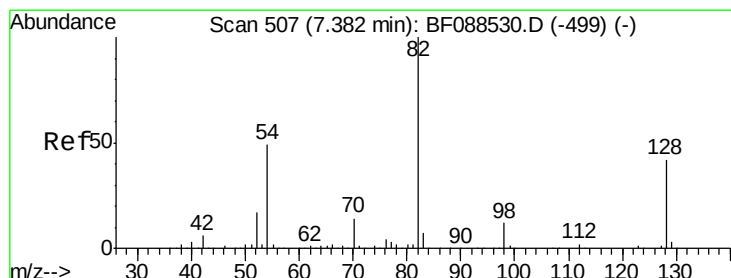
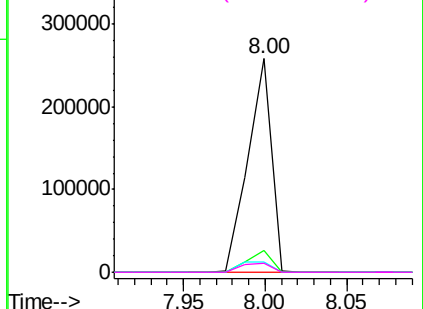
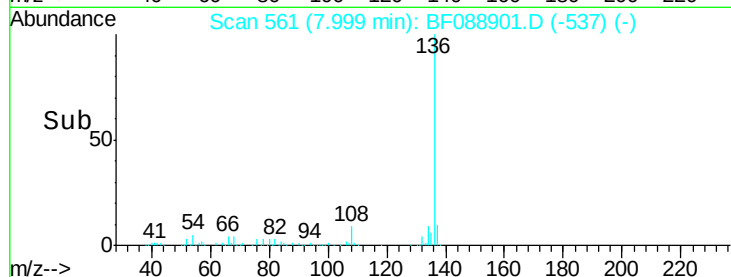


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 79.96 ng

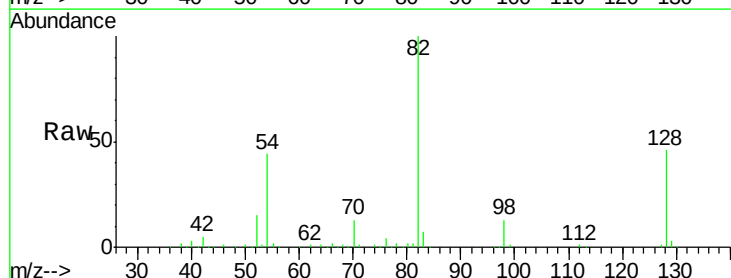
RT: 7.28 min Scan# 498

Delta R.T. -0.02 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

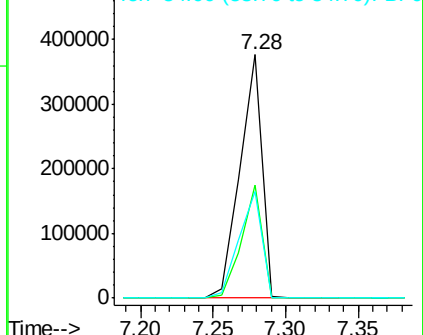
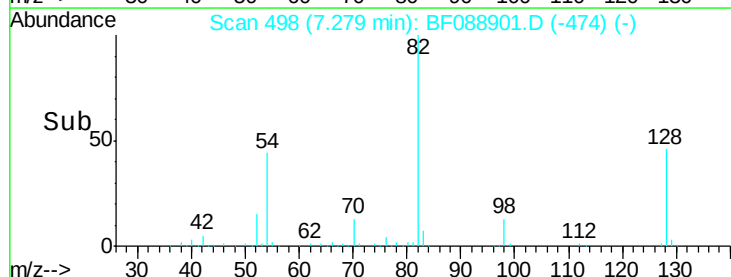
Tgt Ion: 82	Resp:	394727
Ion Ratio	Lower	Upper
82	100	
128	46.3	35.9 53.9
54	43.7	40.9 61.3

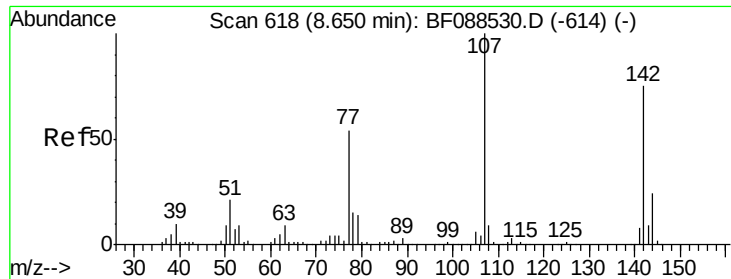


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

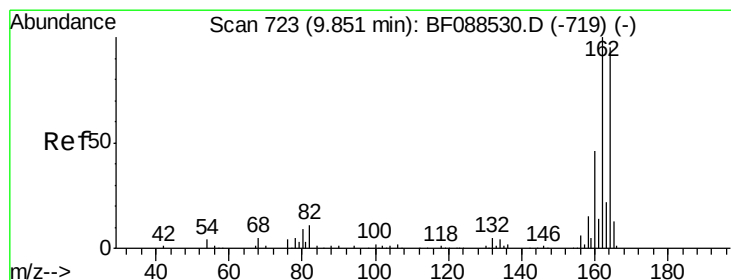
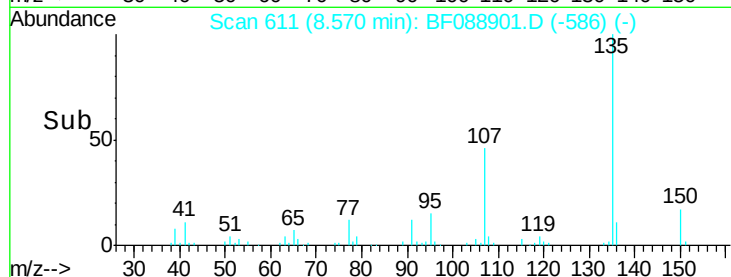
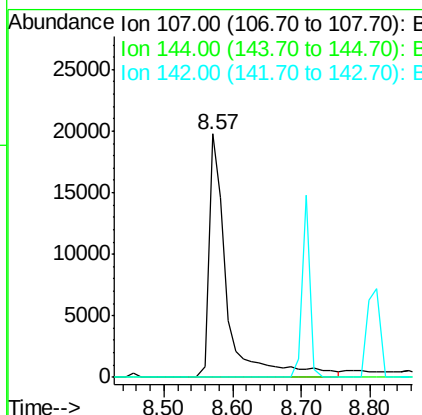
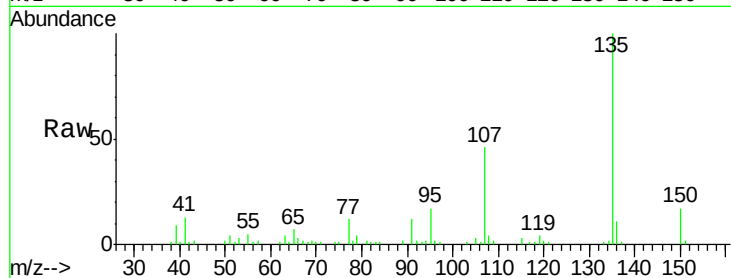




#36
4-Chloro-3-methylphenol
Concen: 8.97 ng
RT: 8.57 min Scan# 611
Delta R.T. -0.01 min
Lab File: BF088901.D
Acq: 11 Jul 2016 16:03

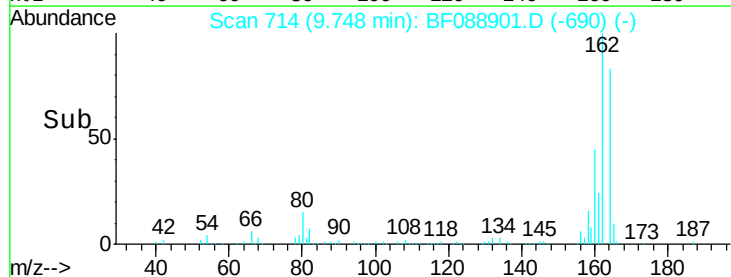
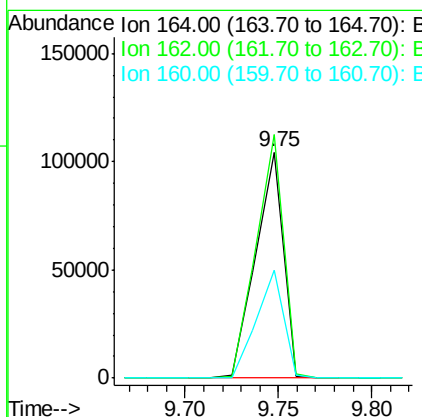
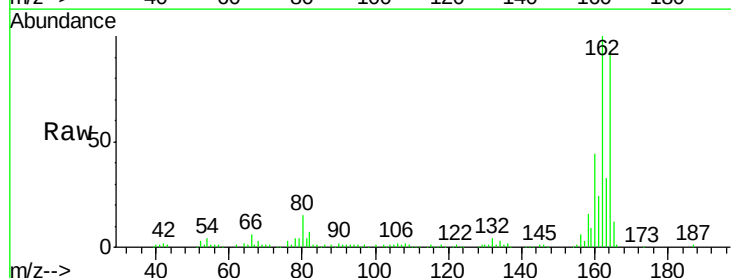
Instrument :
BNA_F
ClientSampled :

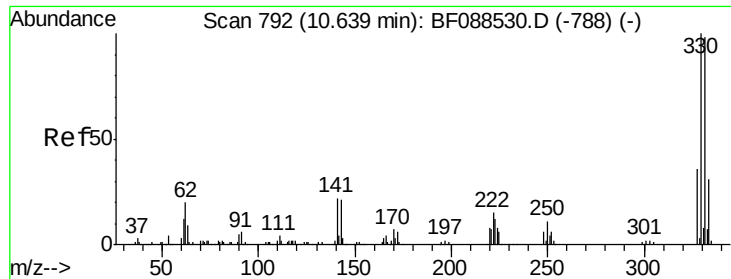
Tot Ion:107 Resp: 36460
Ion Ratio Lower Upper
107 100
144 0.0 20.8 31.2#
142 0.0 63.4 95.2#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.75 min Scan# 714
Delta R.T. -0.02 min
Lab File: BF088901.D
Acq: 11 Jul 2016 16:03

Tgt Ion:164 Resp: 106133
Ion Ratio Lower Upper
164 100
162 107.8 85.4 128.2
160 47.8 39.5 59.3

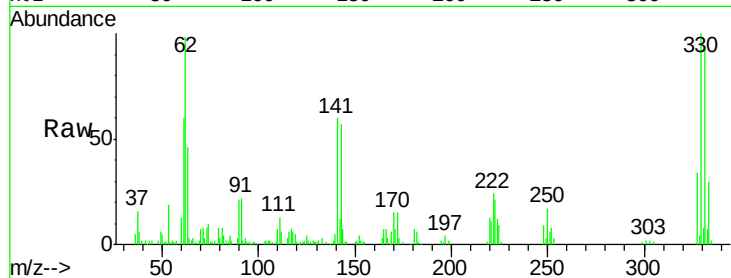




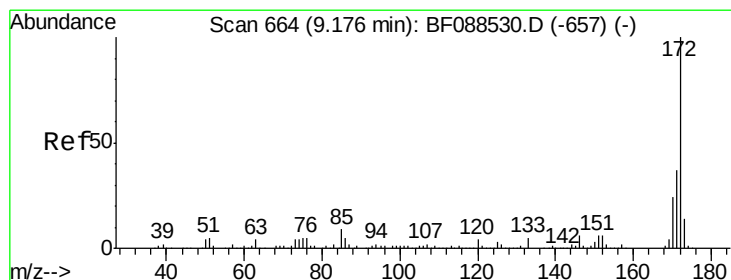
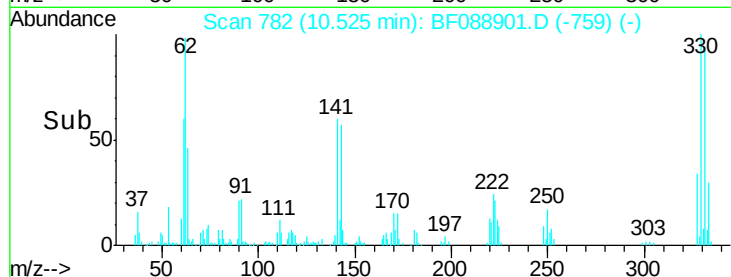
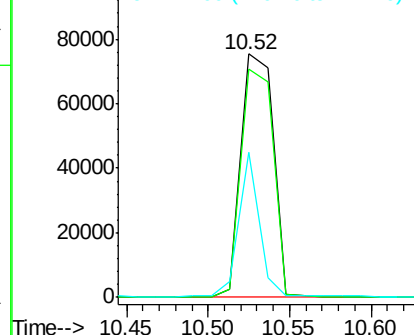
#41
 2,4,6-Tribromophenol
 Concen: 104.76 ng
 RT: 10.52 min Scan# 782
 Delta R.T. -0.03 min
 Lab File: BF088901.D
 Acq: 11 Jul 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.9	0.0	0.0#
141	38.8	0.0	0.0#

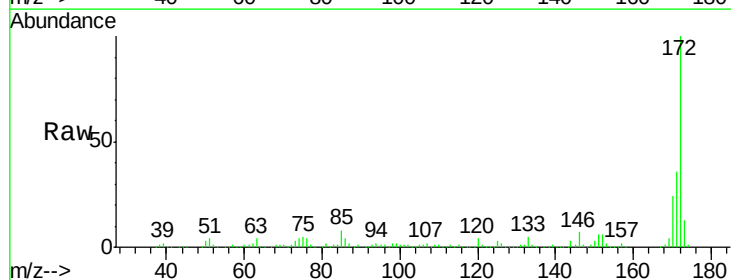


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

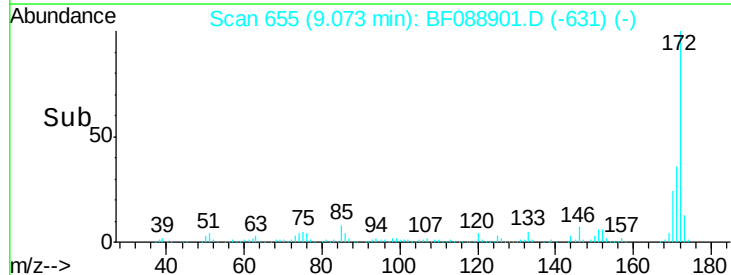
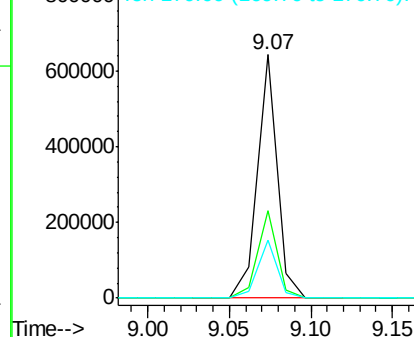


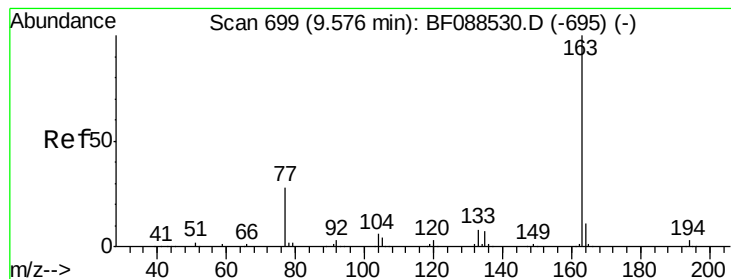
#44
 2-Fluorobiphenyl
 Concen: 80.73 ng
 RT: 9.07 min Scan# 655
 Delta R.T. -0.02 min
 Lab File: BF088901.D
 Acq: 11 Jul 2016 16:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	23.8	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: 17.92 ng

RT: 9.47 min Scan# 690

Delta R.T. -0.03 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampleId :

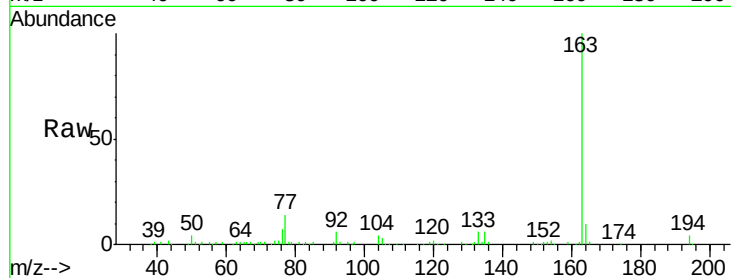
Tot Ion:163 Resp: 135525

Ion Ratio Lower Upper

163 100

194 3.8 2.8 4.2

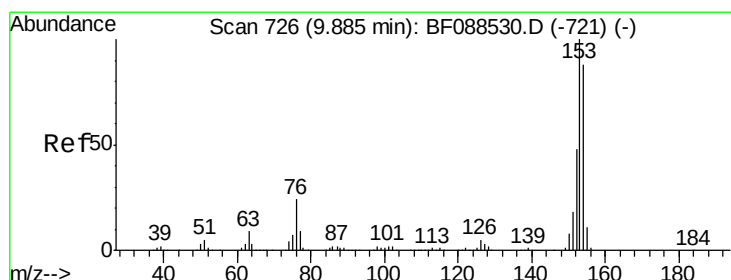
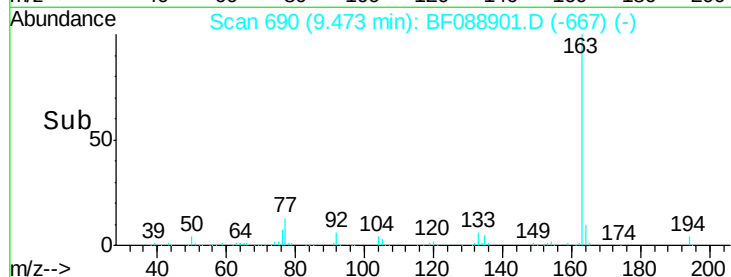
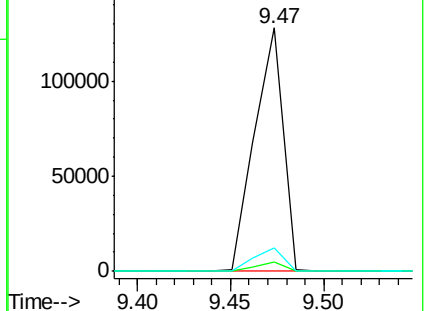
164 9.8 8.3 12.5



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



#51

Acenaphthene

Concen: 2.65 ng

RT: 9.77 min Scan# 716

Delta R.T. -0.03 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

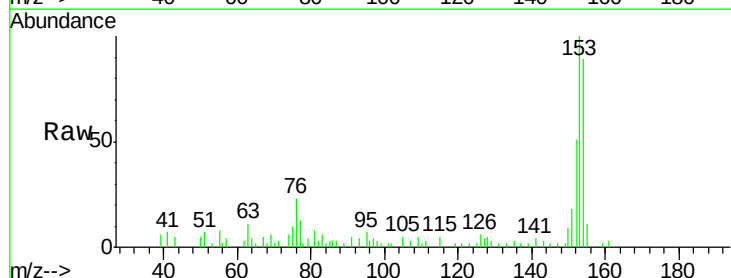
Tgt Ion:154 Resp: 17816

Ion Ratio Lower Upper

154 100

153 113.0 89.5 134.3

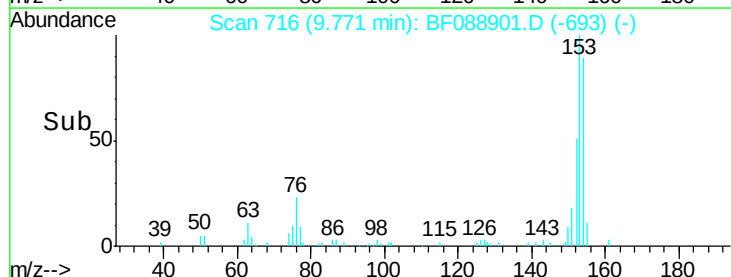
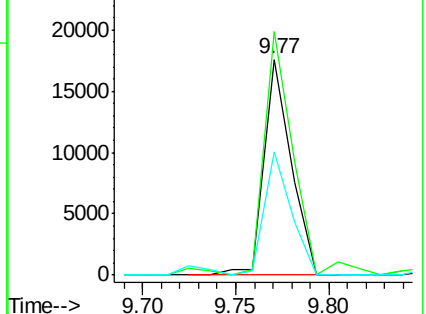
152 57.5 42.7 64.1

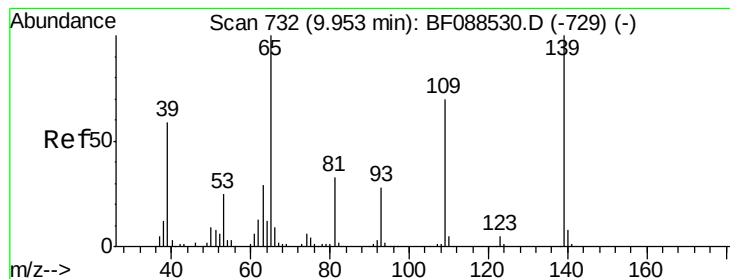


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#55

4-Nitrophenol

Concen: 4.55 ng

RT: 9.94 min Scan# 731

Delta R.T. 0.06 min

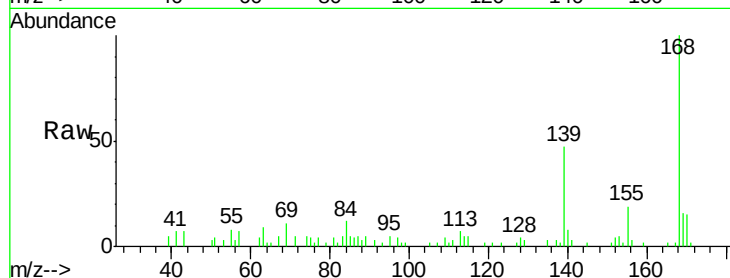
Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampled :



Tot Ion:139 Resp: 7359

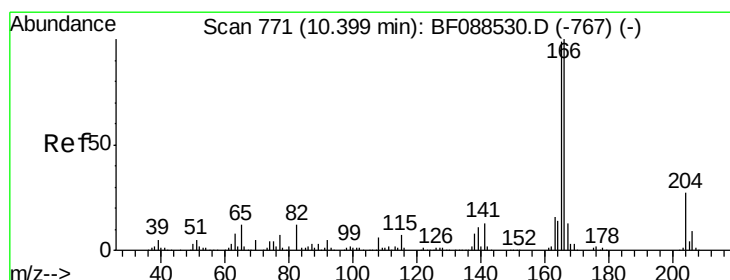
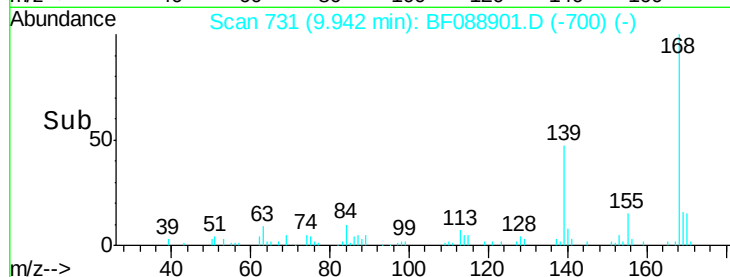
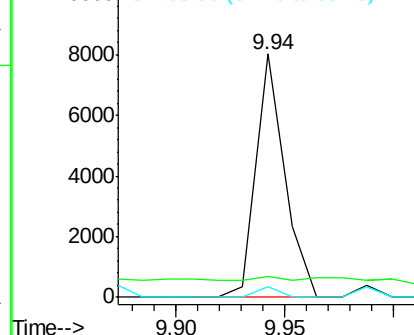
Ion Ratio Lower Upper

139 100

109 8.3 48.9 88.9#

65 4.2 84.9 124.9#

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): BFO



#57

Fluorene

Concen: 4.88 ng

RT: 10.28 min Scan# 761

Delta R.T. -0.03 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Tgt Ion:166 Resp: 33129

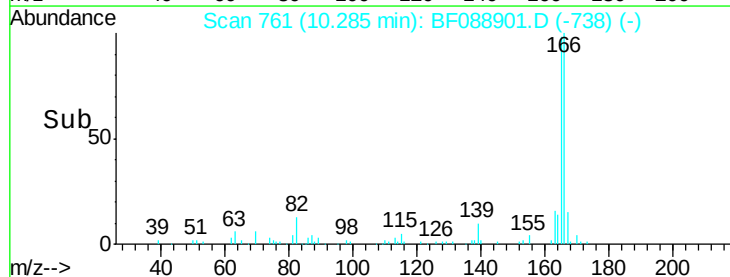
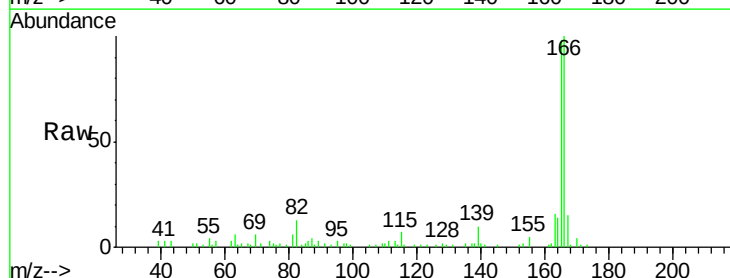
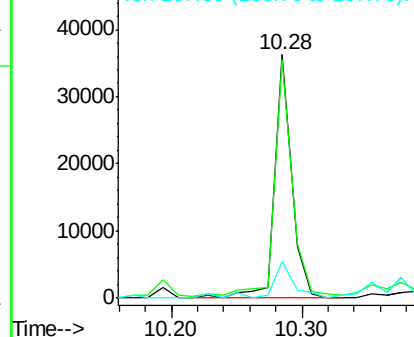
Ion Ratio Lower Upper

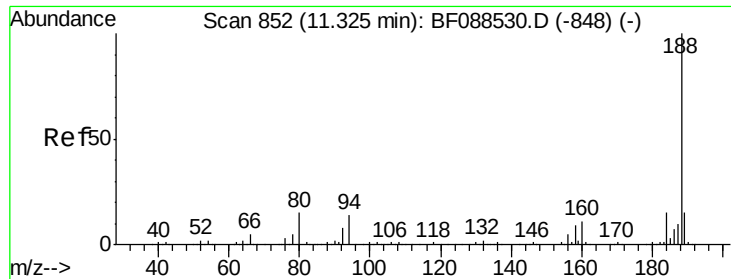
166 100

165 98.0 77.8 116.8

167 14.7 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

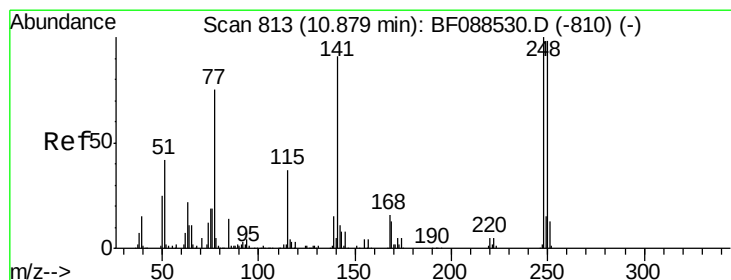
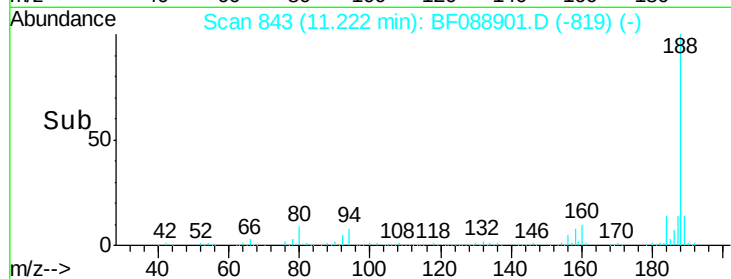
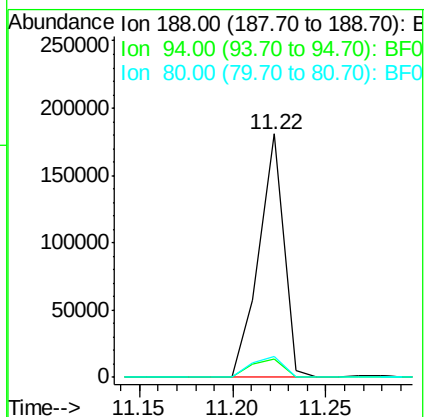
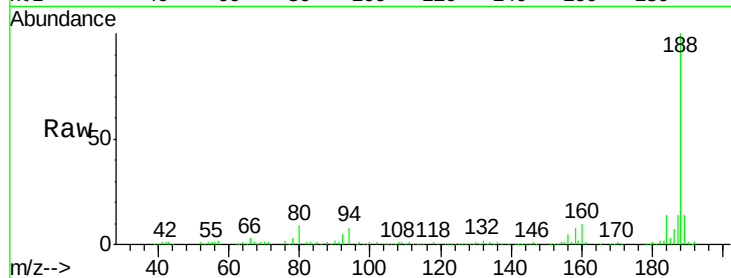




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 843
Delta R.T. -0.02 min
Lab File: BF088901.D
Acq: 11 Jul 2016 16:03

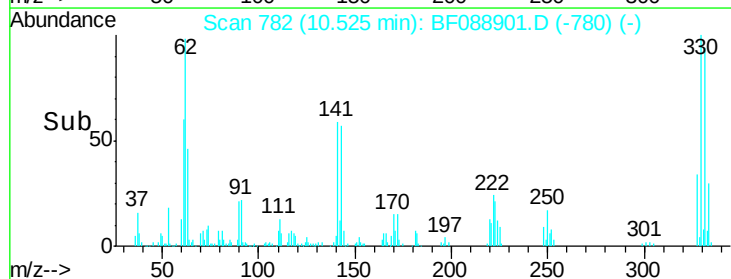
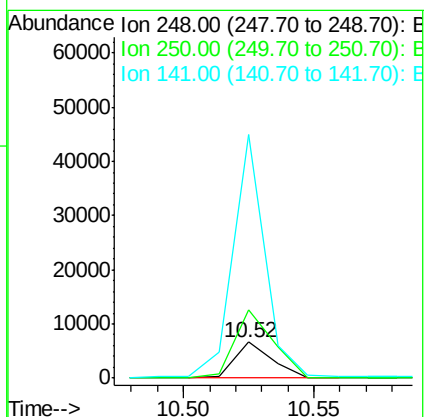
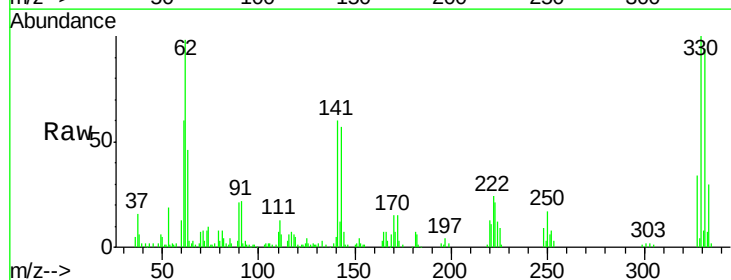
Instrument :
BNA_F
ClientSampleId :

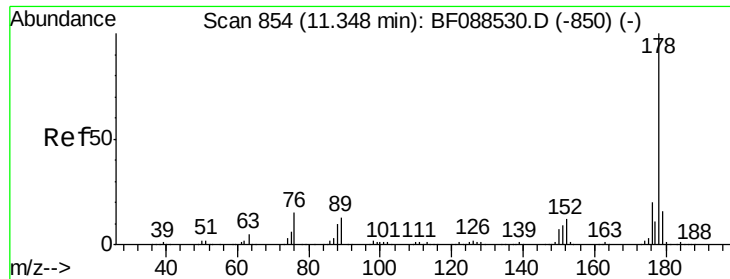
Tot Ion:188 Resp: 167217
Ion Ratio Lower Upper
188 100
94 7.8 9.0 13.6#
80 8.6 10.0 15.0#



#66
4-Bromophenyl-phenylether
Concen: 3.94 ng
RT: 10.52 min Scan# 782
Delta R.T. -0.27 min
Lab File: BF088901.D
Acq: 11 Jul 2016 16:03

Tgt Ion:248 Resp: 6647
Ion Ratio Lower Upper
248 100
250 188.2 77.1 115.7#
141 675.3 50.6 76.0#

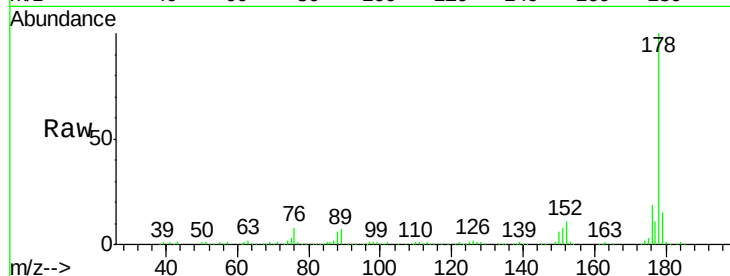




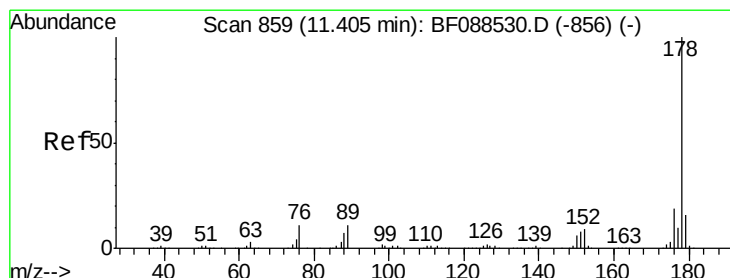
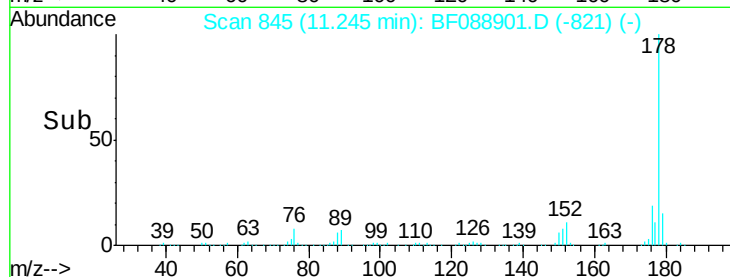
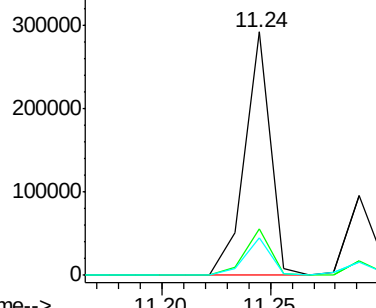
#70
 Phenanthrene
 Concen: 26.45 ng
 RT: 11.24 min Scan# 845
 Delta R.T. -0.02 min
 Lab File: BF088901.D
 Acq: 11 Jul 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 241742
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.8 23.6
 179 15.5 13.0 19.4

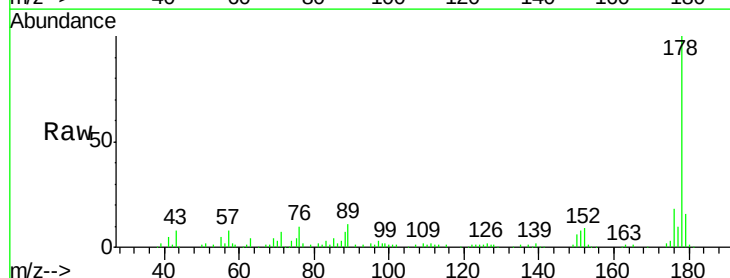


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

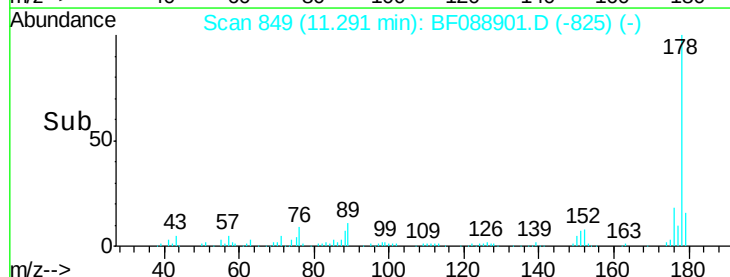
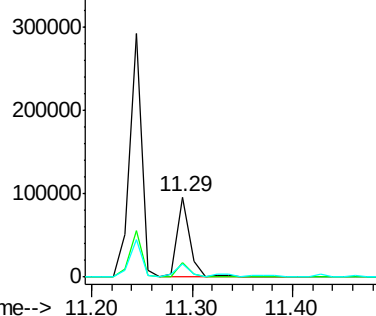


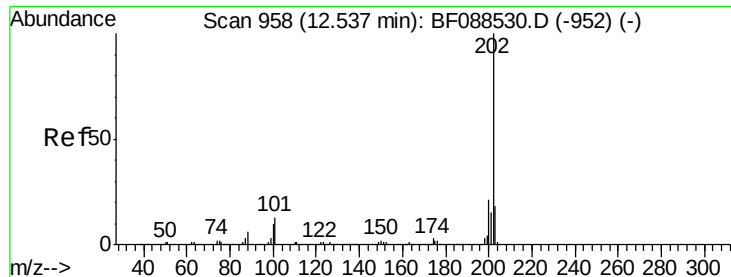
#71
 Anthracene
 Concen: 9.41 ng
 RT: 11.29 min Scan# 849
 Delta R.T. -0.02 min
 Lab File: BF088901.D
 Acq: 11 Jul 2016 16:03

Tgt Ion:178 Resp: 85541
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.6 23.4
 179 15.7 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: 35.12 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampleId :

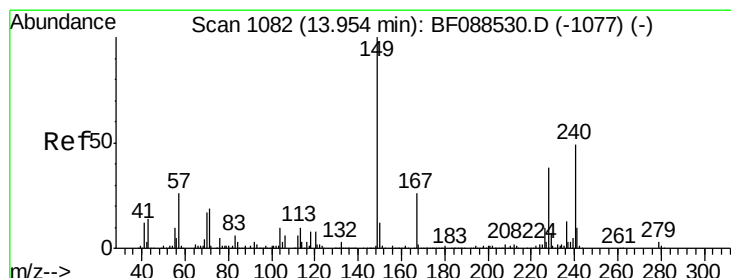
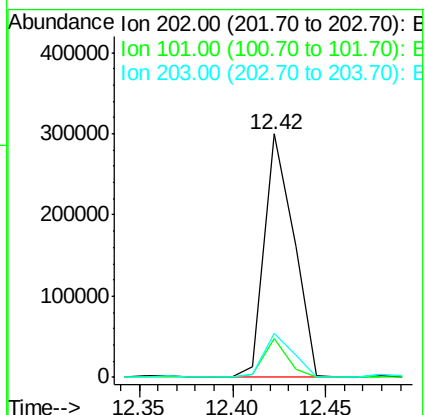
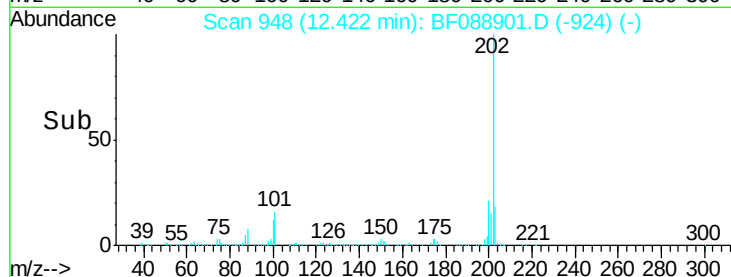
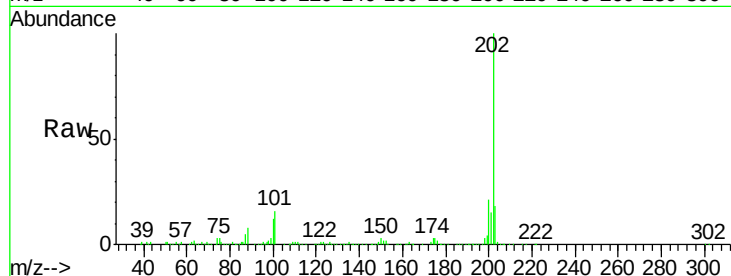
Tot Ion:202 Resp: 325429

Ion Ratio Lower Upper

202 100

101 15.7 0.0 33.1

203 17.9 0.0 38.1



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.85 min Scan# 1073

Delta R.T. -0.02 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

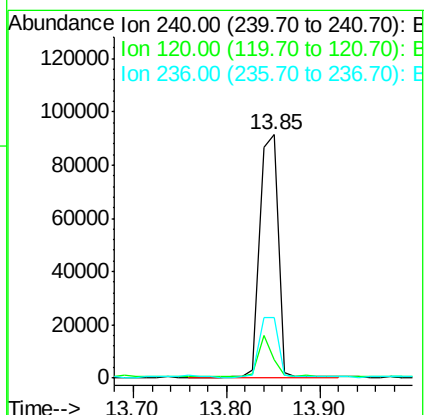
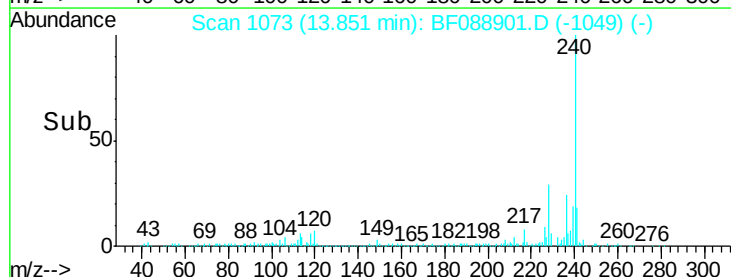
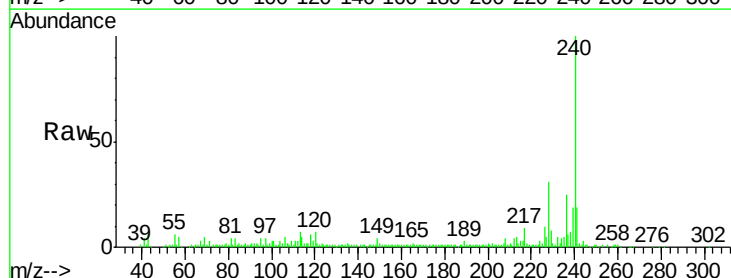
Tgt Ion:240 Resp: 129040

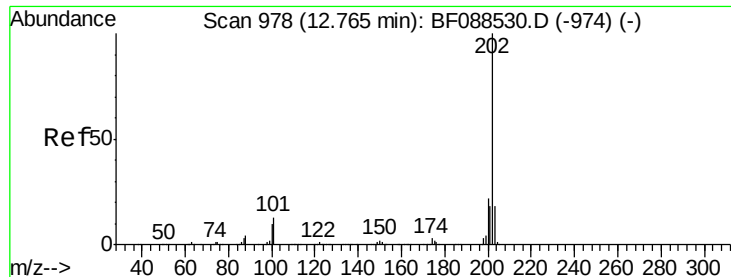
Ion Ratio Lower Upper

240 100

120 7.3 6.8 10.2

236 24.8 20.2 30.2





#77

Pvrene

Concen: 28.12 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.02 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampleId :

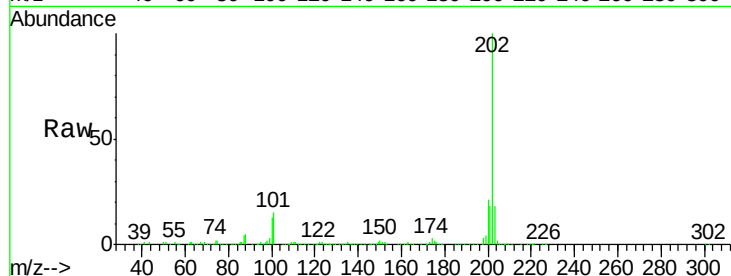
Tot Ion:202 Resp: 307652

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

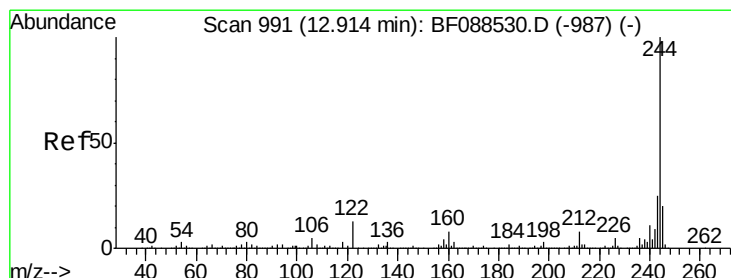
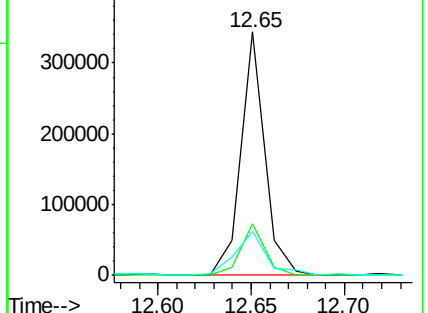
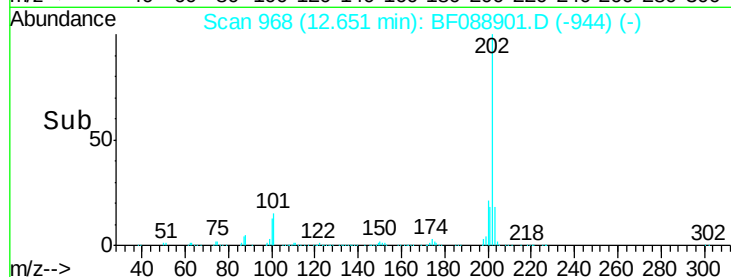
203 18.1 14.5 21.7



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: 61.24 ng

RT: 12.80 min Scan# 981

Delta R.T. -0.02 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

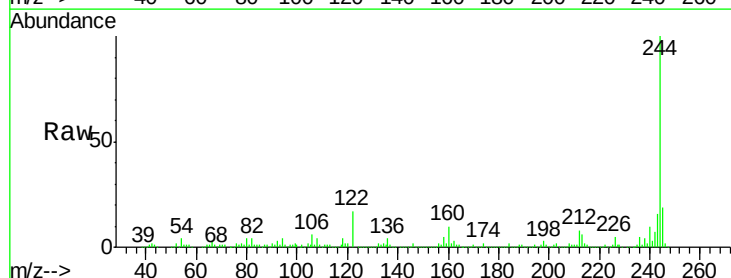
Tgt Ion:244 Resp: 354798

Ion Ratio Lower Upper

244 100

212 8.3 6.0 9.0

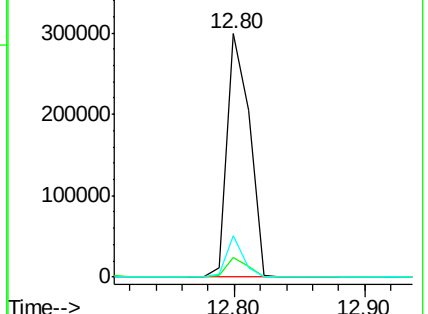
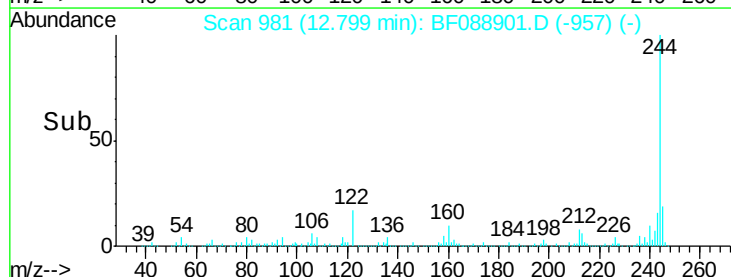
122 16.8 11.2 16.8#

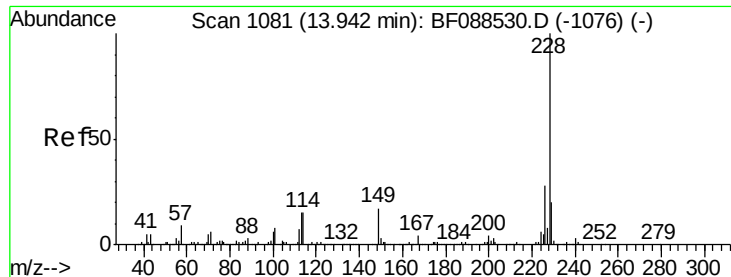


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 21.03 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.01 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampleId :

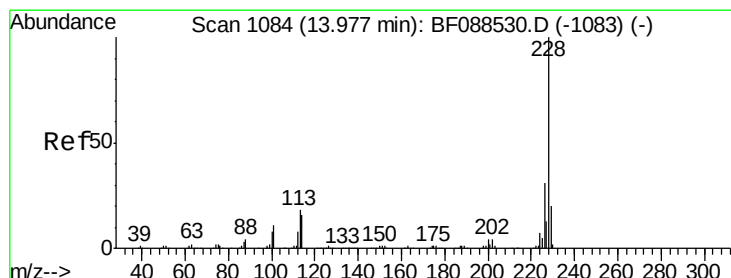
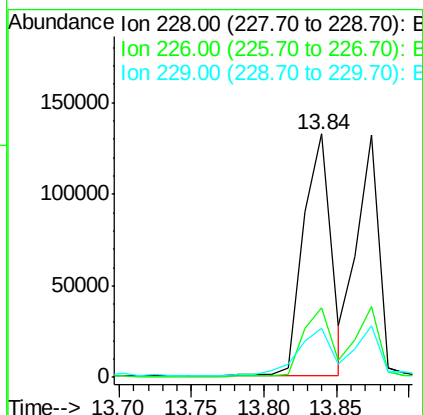
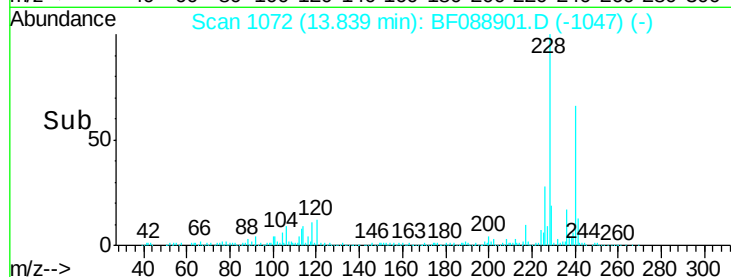
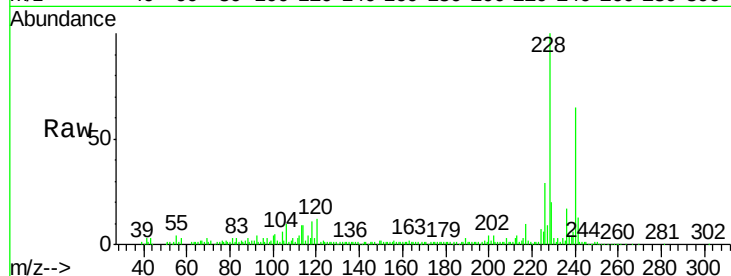
Tot Ion:228 Resp: 174734

Ion Ratio Lower Upper

228 100

226 28.6 22.3 33.5

229 20.3 16.0 24.0



#82

Chrysene

Concen: 21.26 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.06 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

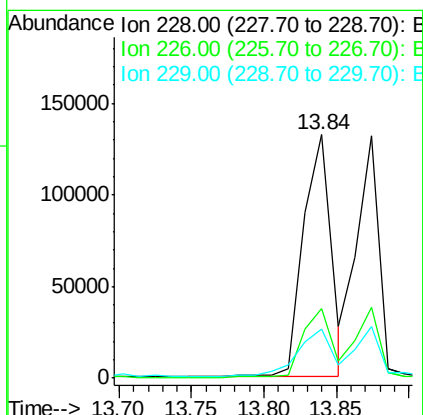
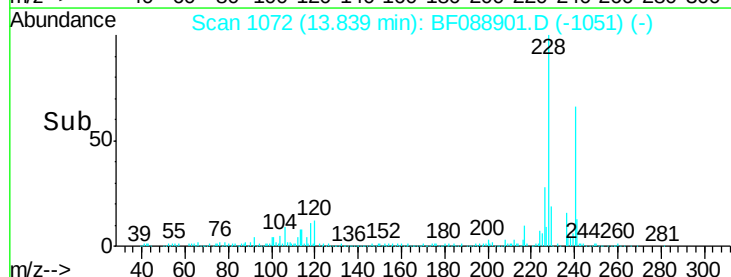
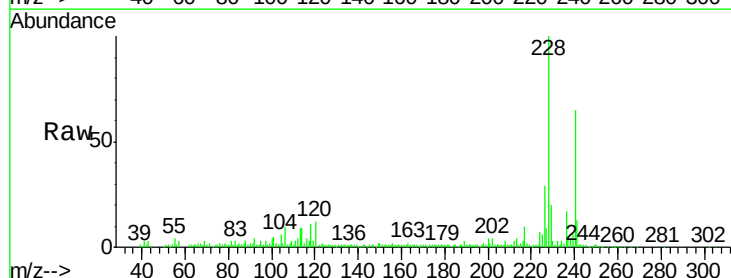
Tgt Ion:228 Resp: 174734

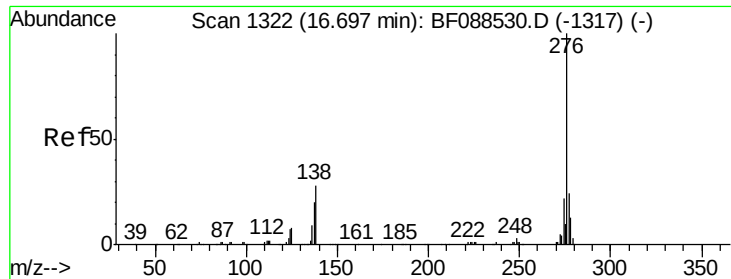
Ion Ratio Lower Upper

228 100

226 28.6 25.4 38.2

229 20.3 16.3 24.5

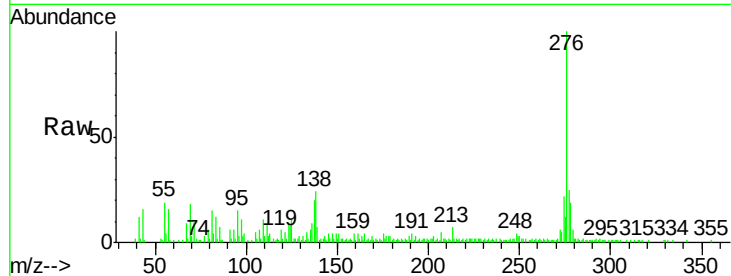




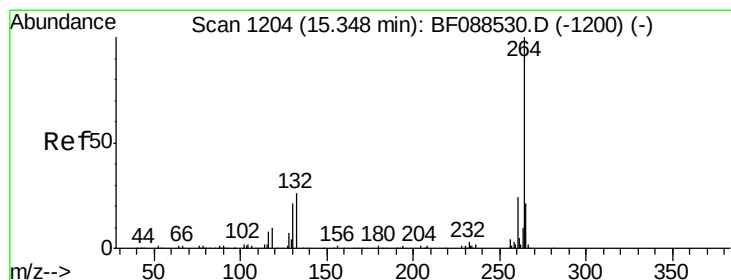
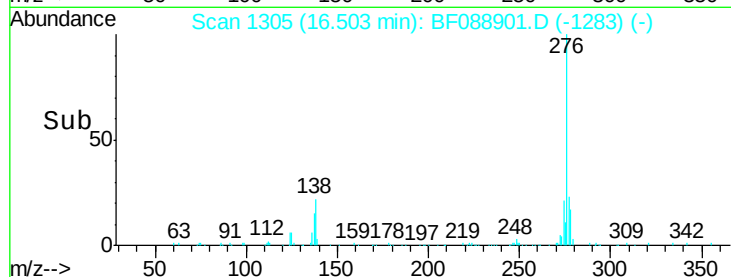
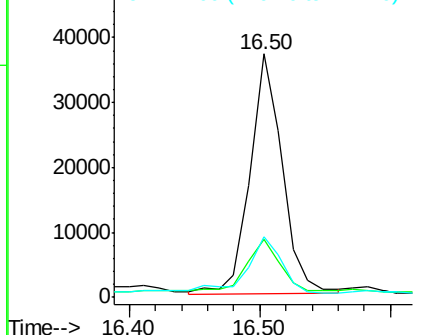
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.12 ng
 RT: 16.50 min Scan# 1305
 Delta R.T. -0.05 min
 Lab File: BF088901.D
 Acq: 11 Jul 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 64013
 Ion Ratio Lower Upper
 276 100
 138 25.5 0.0 0.0#
 277 27.5 0.0 0.0#

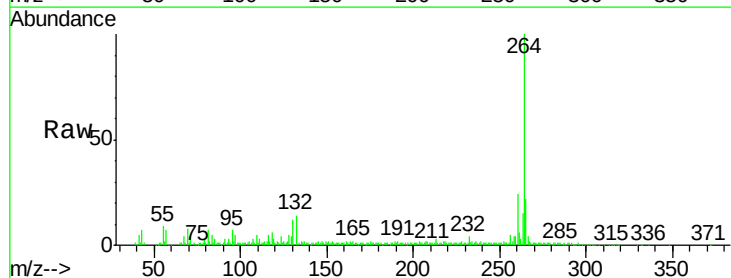


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

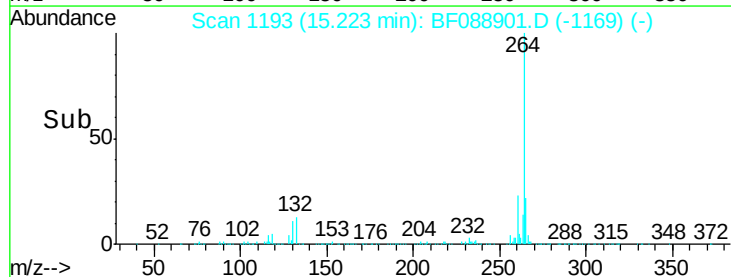
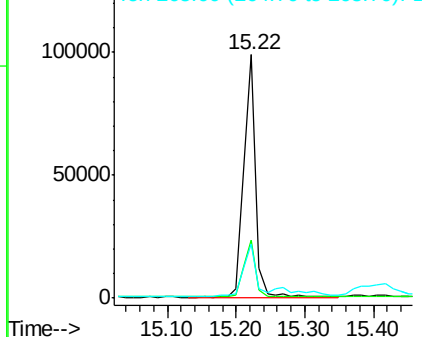


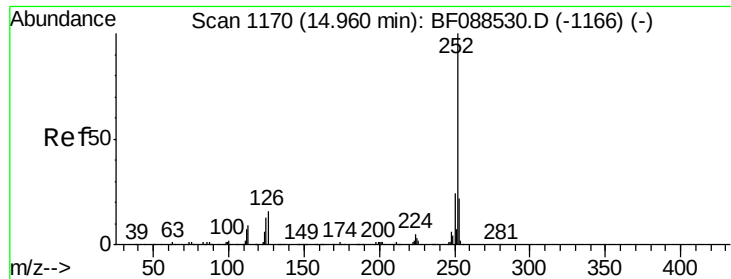
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.22 min Scan# 1193
 Delta R.T. -0.02 min
 Lab File: BF088901.D
 Acq: 11 Jul 2016 16:03

Tgt Ion:264 Resp: 118763
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.2 28.8
 265 22.5 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

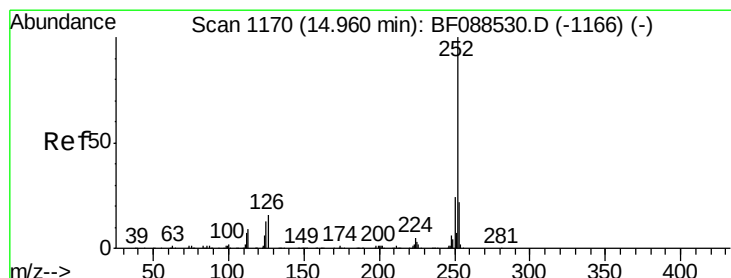
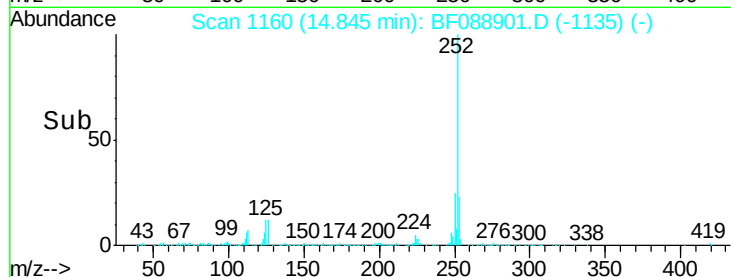
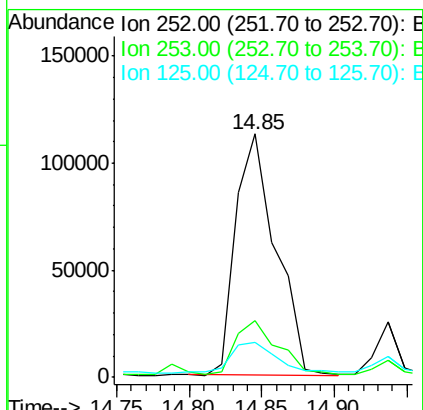
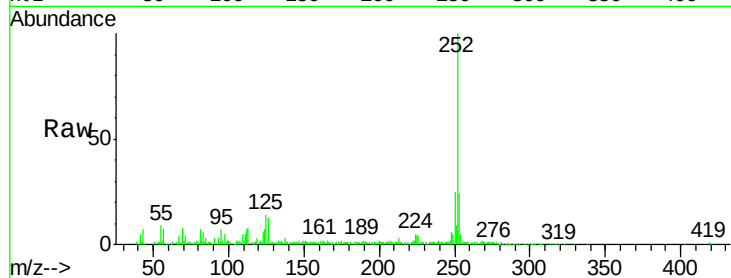




#87
Benzo(b)fluoranthene
Concen: 29.07 ng
RT: 14.85 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF088901.D
Acq: 11 Jul 2016 16:03

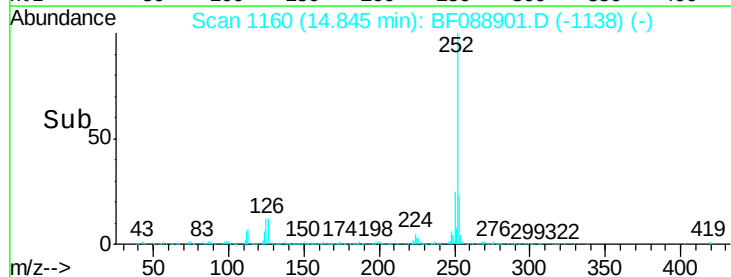
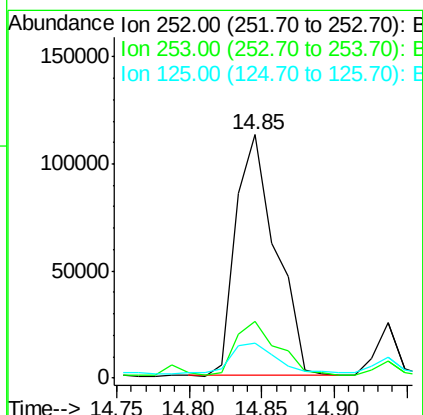
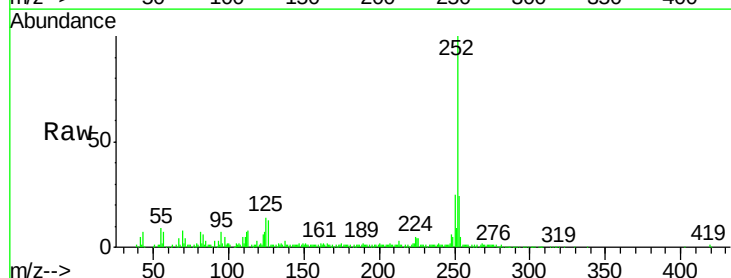
Instrument :
BNA_F
ClientSampleId :

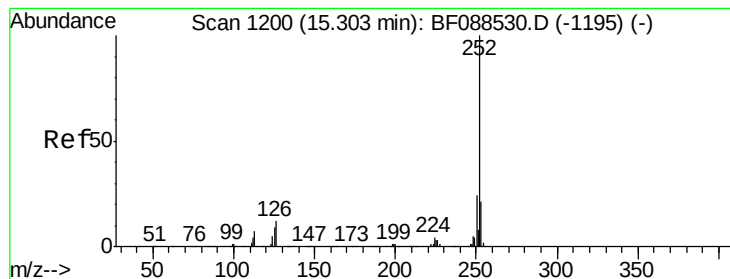
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.4	26.2
125	14.4	7.1	10.7



#88
Benzo(k)fluoranthene
Concen: 33.32 ng
RT: 14.85 min Scan# 1160
Delta R.T. -0.05 min
Lab File: BF088901.D
Acq: 11 Jul 2016 16:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	14.4	11.2	16.8





#89

Benzo(a)pyrene

Concen: 13.33 ng

RT: 15.11 min Scan# 1183

Delta R.T. -0.08 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampleId :

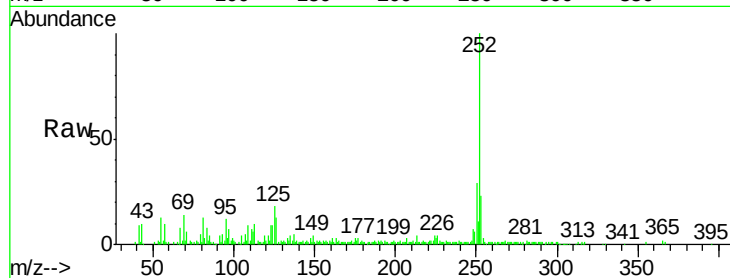
Tot Ion:252 Resp: 84082

Ion Ratio Lower Upper

252 100

253 23.1 17.9 26.9

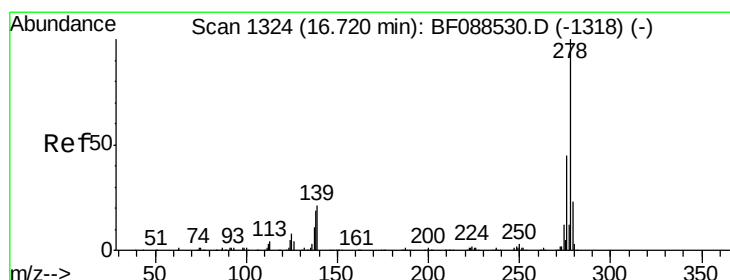
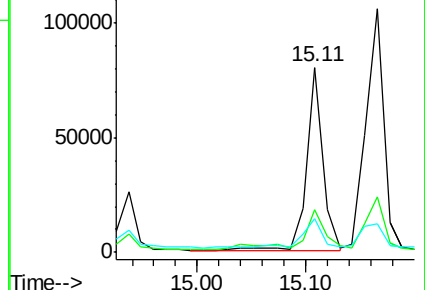
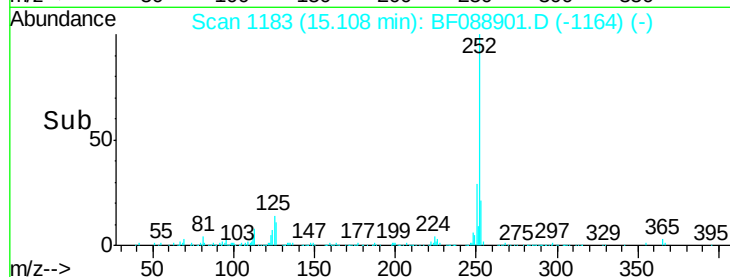
125 17.9 12.5 18.7



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



#90

Dibenzo(a,h)anthracene

Concen: 3.40 ng

RT: 16.51 min Scan# 1306

Delta R.T. -0.05 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

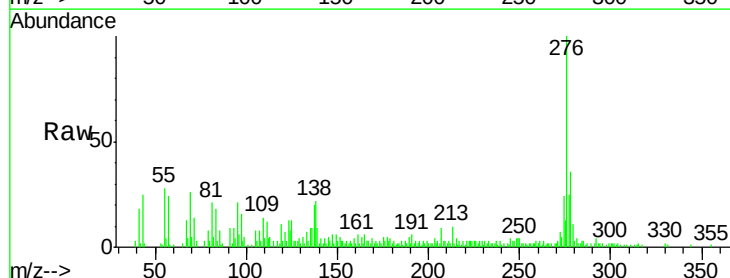
Tgt Ion:278 Resp: 17893

Ion Ratio Lower Upper

278 100

139 25.8 15.7 23.5#

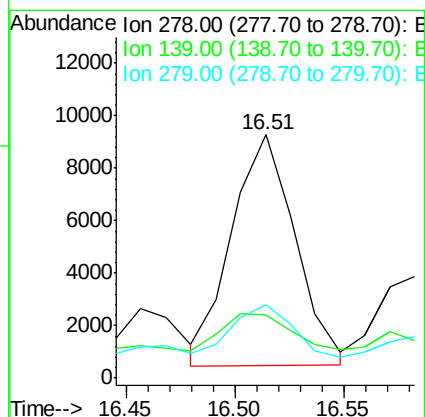
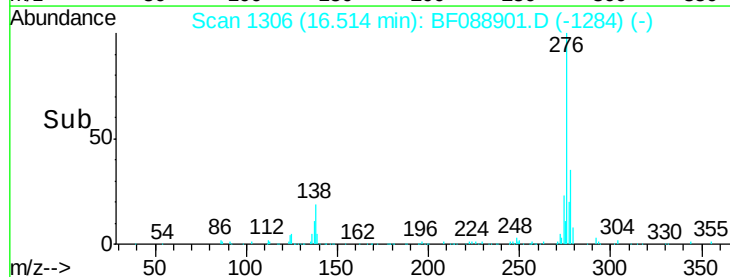
279 29.9 19.4 29.2#

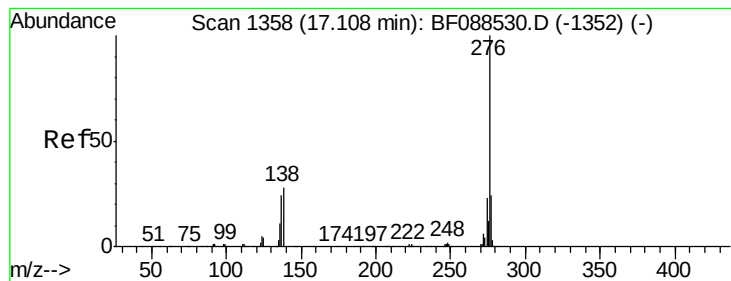


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 10.85 ng

RT: 16.89 min Scan# 1339

Delta R.T. -0.05 min

Lab File: BF088901.D

Acq: 11 Jul 2016 16:03

Instrument :

BNA_F

ClientSampleId :

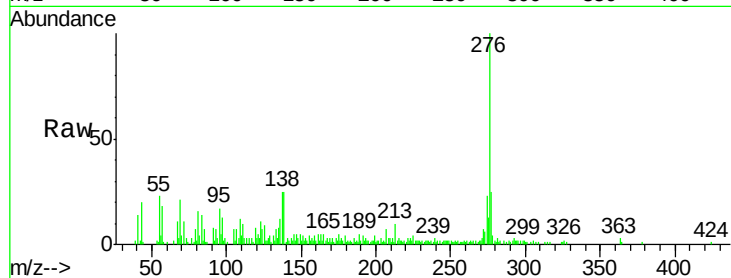
Tot Ion: 276 Resp: 59150

Ion Ratio Lower Upper

276 100

277 25.3 18.9 28.3

138 24.9 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

