

Data Path : V:\HPCHEM1\BNA F\DATA\BF071116\
 Data File : BF088900.D
 Acq On : 11 Jul 2016 15:34
 Operator : UM/SJ
 Sample : H3948-02
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 11 17:15:53 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

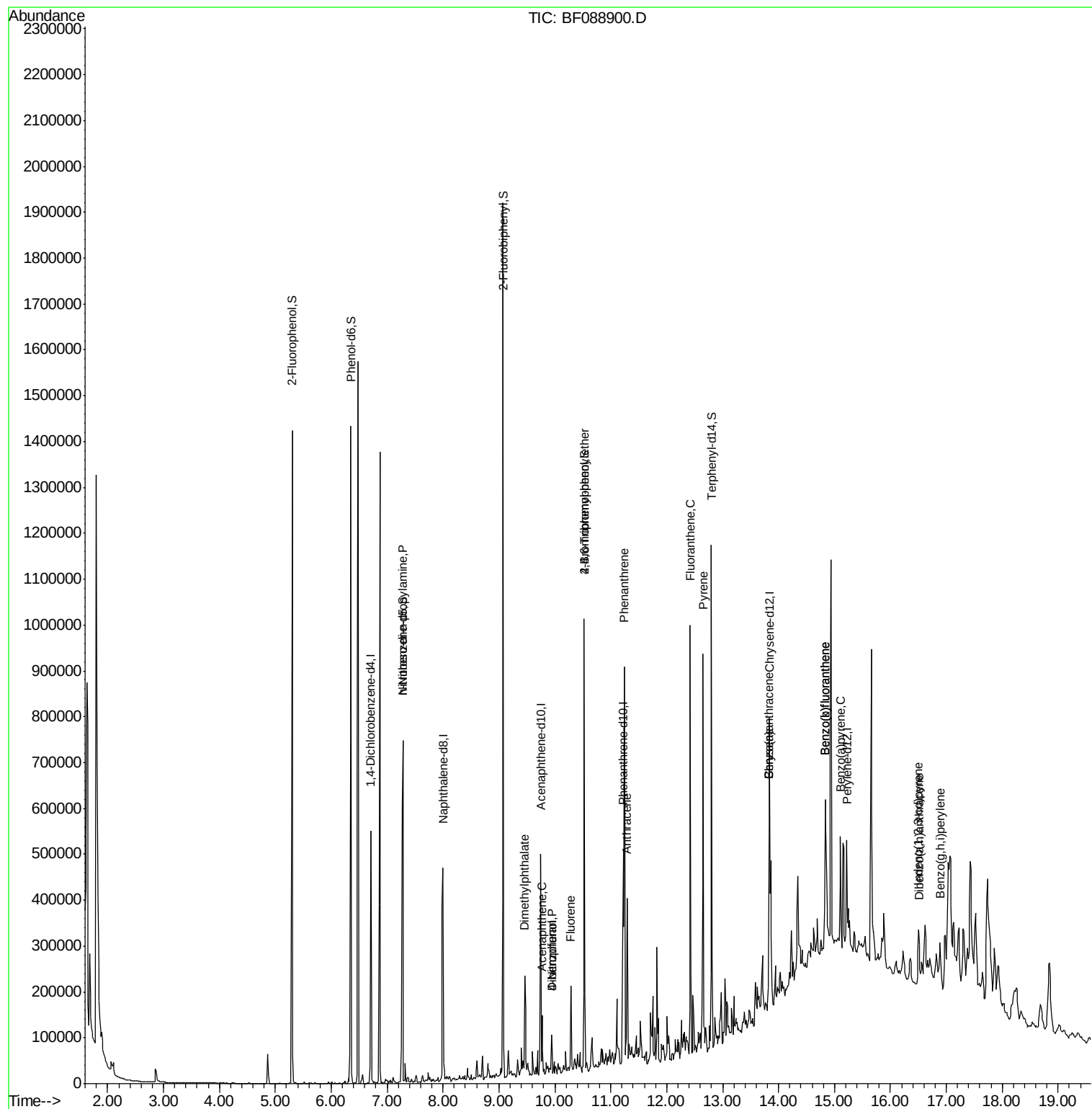
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	72253	20.00	ng	-0.02
21) Naphthalene-d8	8.00	136	271516	20.00	ng	-0.02
38) Acenaphthene-d10	9.75	164	119796	20.00	ng	-0.02
63) Phenanthrene-d10	11.22	188	194400	20.00	ng	-0.02
75) Chrysene-d12	13.84	240	134458	20.00	ng	-0.03
86) Perylene-d12	15.22	264	131898	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	406531	84.32	ng	-0.02
7) Phenol-d6	6.35	99	575627	92.41	ng	-0.02
23) Nitrobenzene-d5	7.28	82	347925	67.15	ng	-0.02
41) 2,4,6-Tribromophenol	10.52	330	96289	86.56	ng	-0.03
44) 2-Fluorobiphenyl	9.07	172	530619	69.97	ng	-0.02
78) Terphenyl-d14	12.80	244	300114	49.71	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.28	70	45902	10.97	ng	# 67
49) Dimethylphthalate	9.46	163	105056	12.31	ng	99
51) Acenaphthene	9.77	154	24194	3.19	ng	98
54) Dibenzofuran	9.94	168	23783	2.39	ng	# 85
55) 4-Nitrophenol	9.94	139	10066	5.51	ng	# 10
57) Fluorene	10.28	166	46147	6.02	ng	97
66) 4-Bromophenyl-phenylether	10.52	248	6976	3.56	ng	# 1
70) Phenanthrene	11.24	178	328219	30.89	ng	98
71) Anthracene	11.29	178	107559	10.18	ng	98
74) Fluoranthene	12.42	202	343210	31.86	ng	98
77) Pyrene	12.65	202	346897	30.43	ng	99
80) Benzo(a)anthracene	13.83	228	181353	20.95	ng	97
82) Chrysene	13.83	228	181353	21.17	ng	97
85) Indeno(1,2,3-cd)pyrene	16.50	276	65099	9.88	ng	# 100
87) Benzo(b)fluoranthene	14.83	252	229106	27.69	ng	# 91
88) Benzo(k)fluoranthene	14.83	252	229106	31.81	ng	96
89) Benzo(a)pyrene	15.11	252	91301	13.03	ng	98
90) Dibenzo(a,h)anthracene	16.51	278	18623	3.18	ng	# 88
91) Benzo(a,h,i)perylene	16.89	276	63364	10.47	ng	97

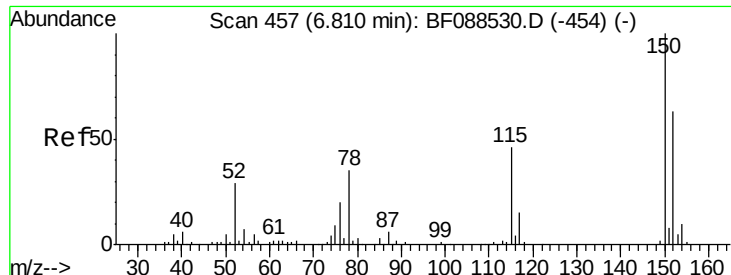
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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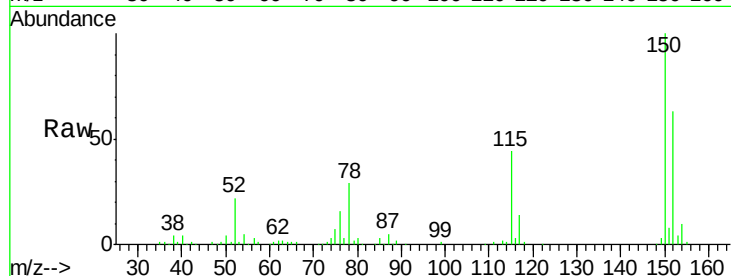


#1

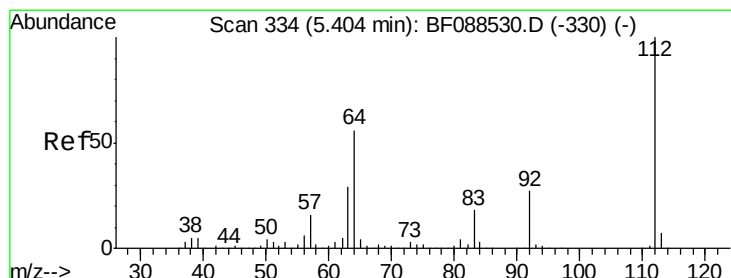
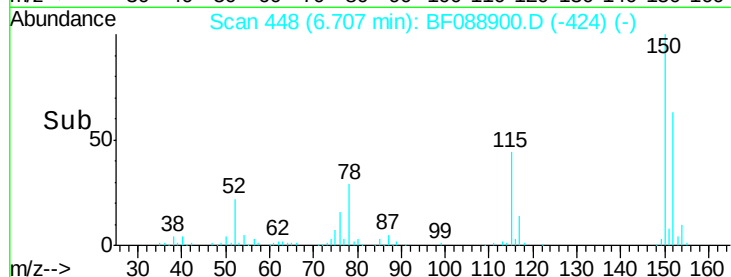
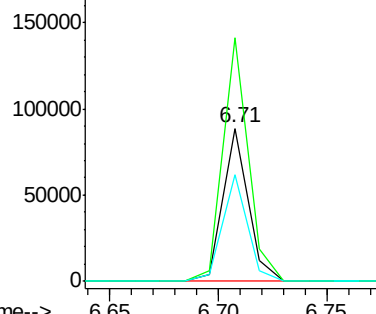
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.71 min Scan# 448
Delta R.T. -0.02 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 72253
Ion Ratio Lower Upper
152 100
150 158.9 123.8 185.6
115 69.4 39.6 59.4#



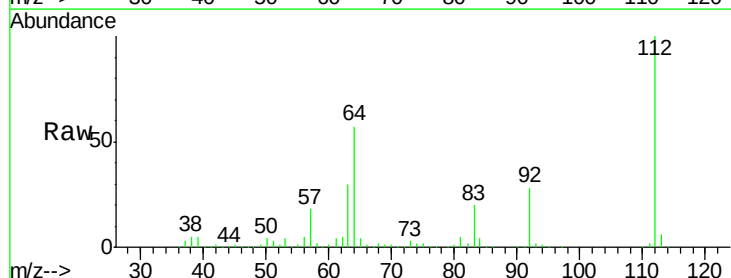
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



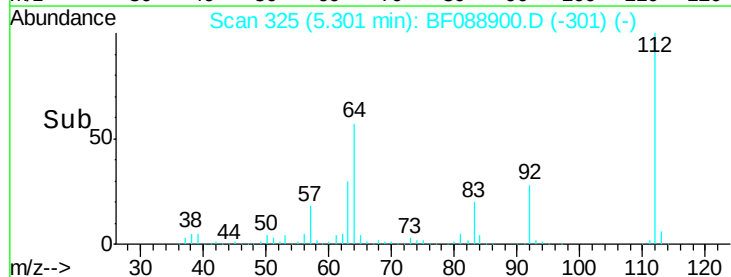
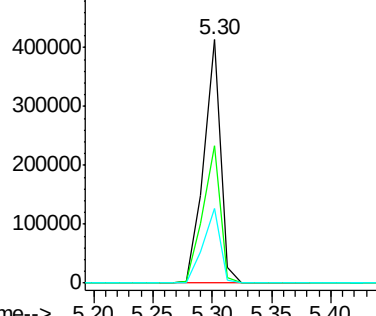
#5

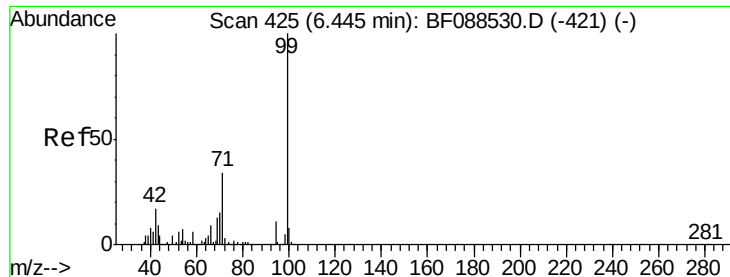
2-Fluorophenol
Concen: 84.32 ng
RT: 5.30 min Scan# 325
Delta R.T. -0.02 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Tgt Ion:112 Resp: 406531
Ion Ratio Lower Upper
112 100
64 56.5 42.2 63.2
63 30.5 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: 92.41 ng

RT: 6.35 min Scan# 417

Delta R.T. -0.02 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

Instrument :

BNA_F

ClientSampleId :

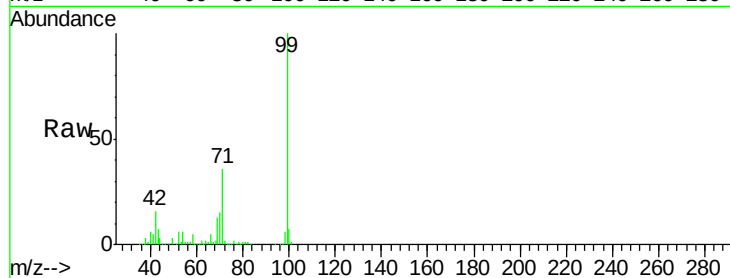
Tot Ion: 99 Resp: 575627

Ion Ratio Lower Upper

99 100

42 15.8 12.2 18.2

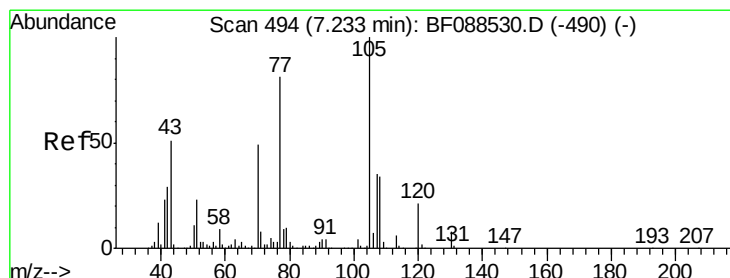
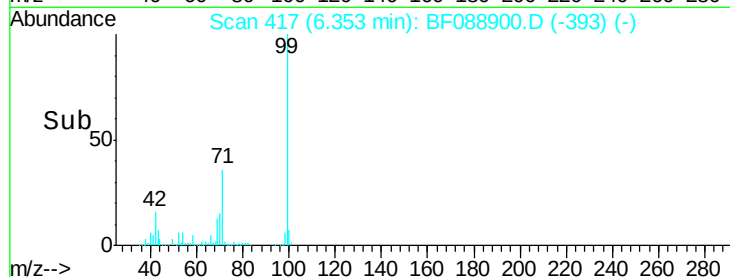
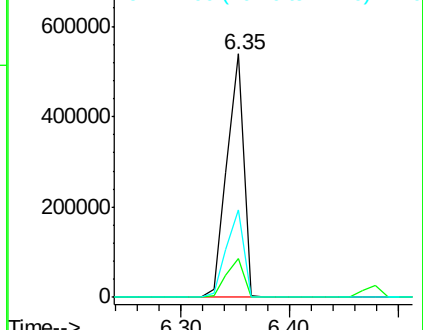
71 35.7 23.4 35.0#



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: 10.97 ng

RT: 7.28 min Scan# 498

Delta R.T. 0.11 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

Tgt Ion: 70 Resp: 45902

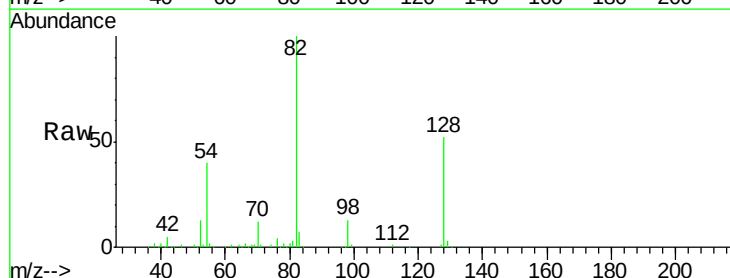
Ion Ratio Lower Upper

70 100

42 36.8 49.6 74.4#

101 0.0 7.1 10.7#

130 2.5 15.4 23.2#

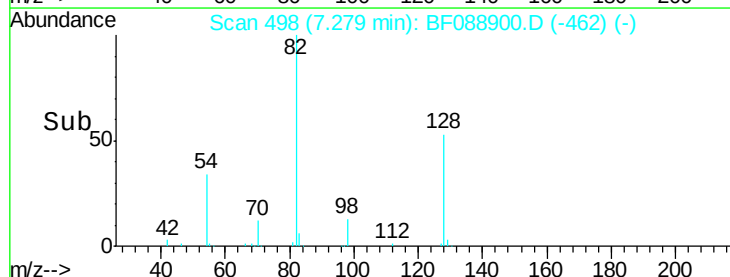
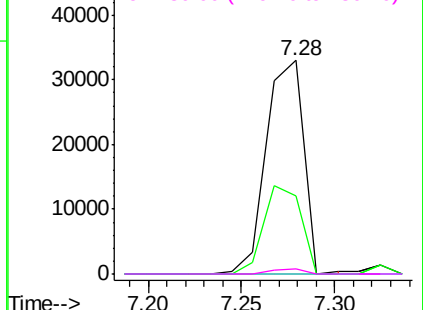


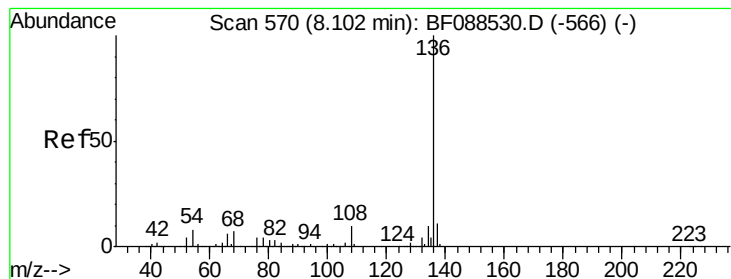
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: BF088900.D

Acq: 11 Jul 2016 15:34

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 271516

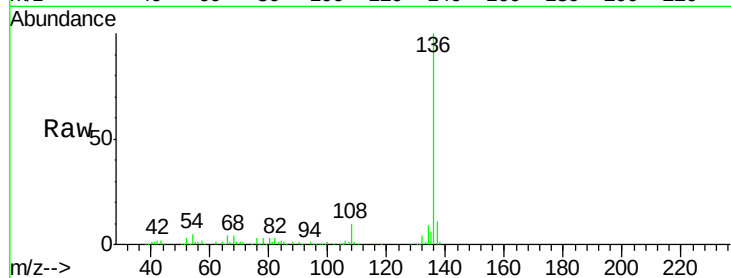
Ion Ratio Lower Upper

136 100

137 10.5 9.1 13.7

54 4.7 6.6 10.0#

68 4.2 5.1 7.7#

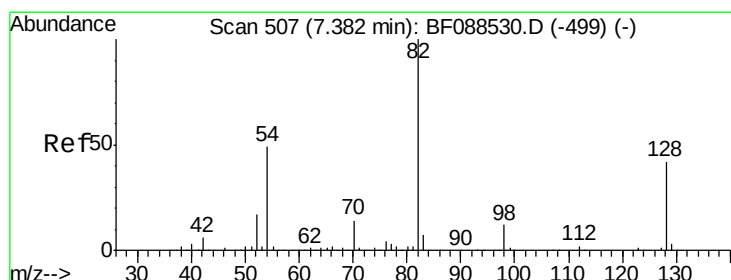
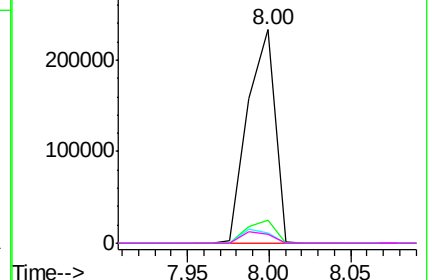
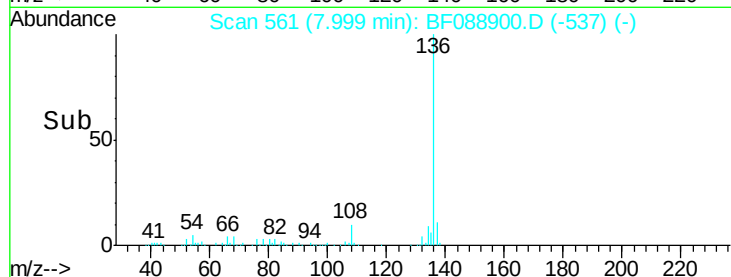


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 67.15 ng

RT: 7.28 min Scan# 498

Delta R.T. -0.02 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

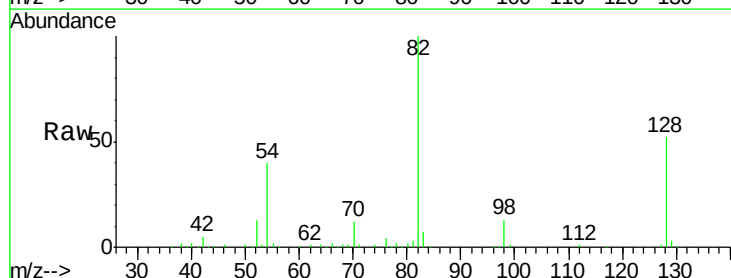
Tgt Ion: 82 Resp: 347925

Ion Ratio Lower Upper

82 100

128 52.4 35.9 53.9

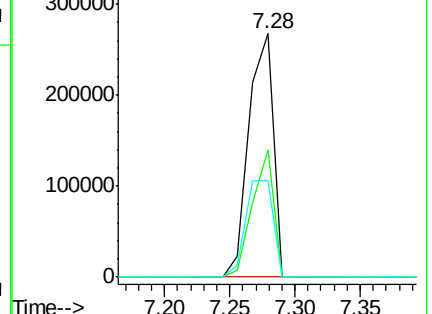
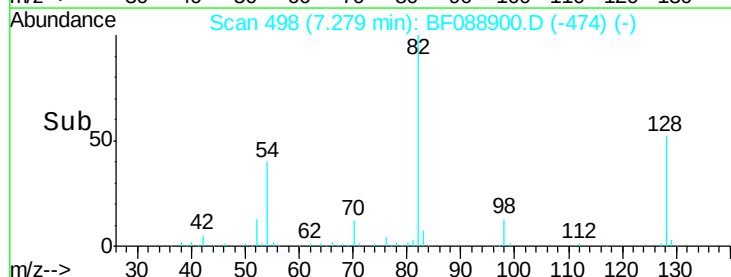
54 39.7 40.9 61.3#

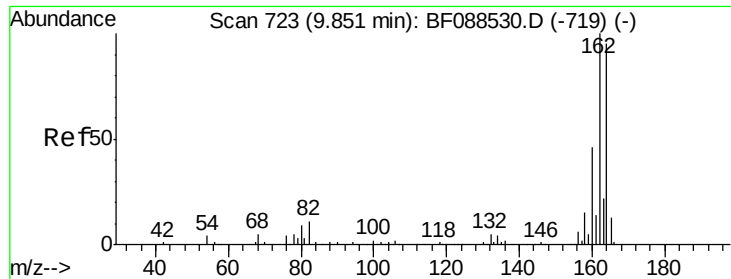


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

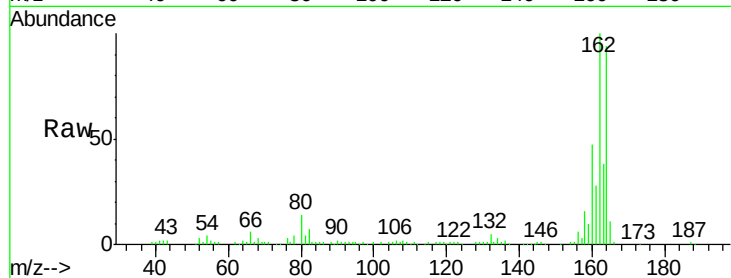




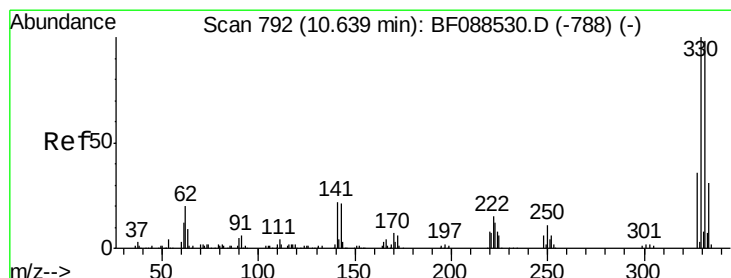
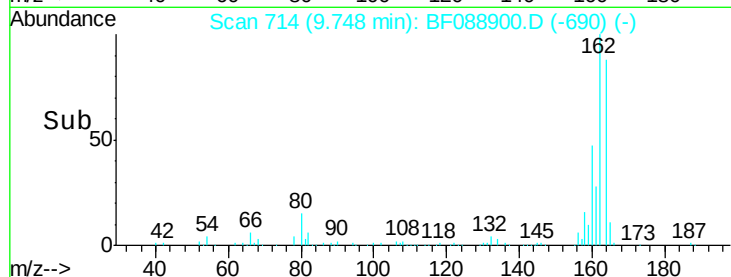
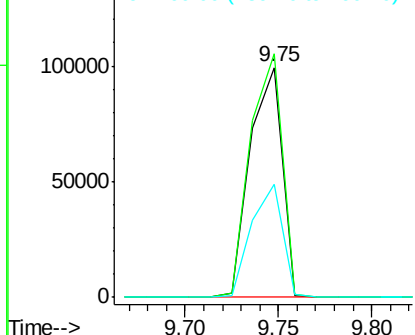
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.75 min Scan# 714
 Delta R.T. -0.02 min
 Lab File: BF088900.D
 Acq: 11 Jul 2016 15:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 119796
 Ion Ratio Lower Upper
 164 100
 162 106.1 85.4 128.2
 160 49.4 39.5 59.3

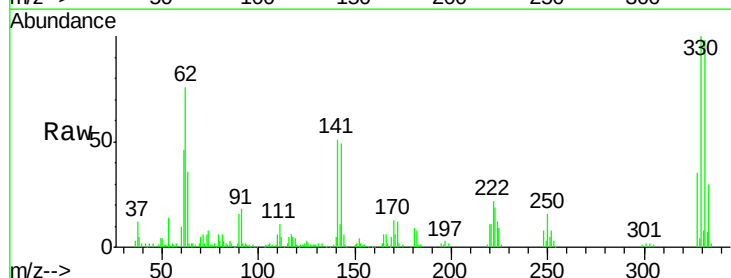


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

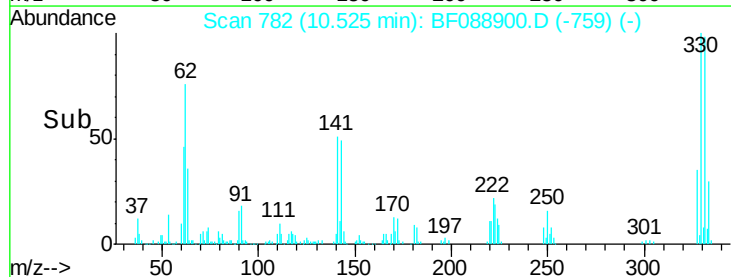
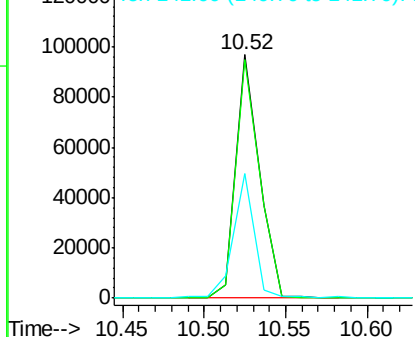


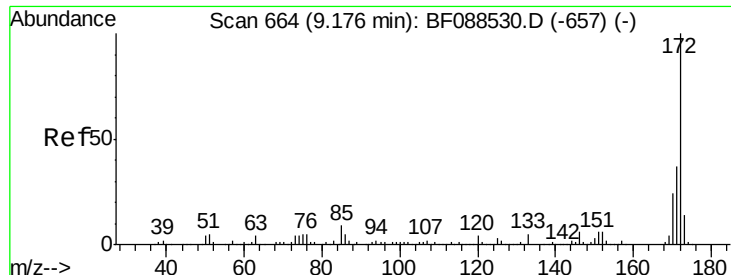
#41
 2,4,6-Tribromophenol
 Concen: 86.56 ng
 RT: 10.52 min Scan# 782
 Delta R.T. -0.03 min
 Lab File: BF088900.D
 Acq: 11 Jul 2016 15:34

Tgt Ion:330 Resp: 96289
 Ion Ratio Lower Upper
 330 100
 332 98.2 0.0 0.0#
 141 46.7 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

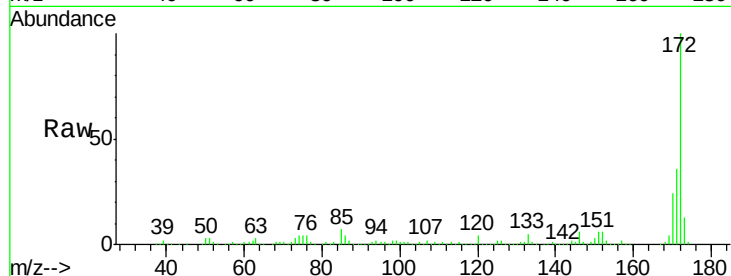




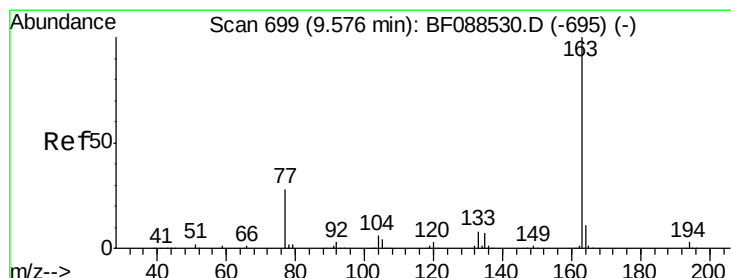
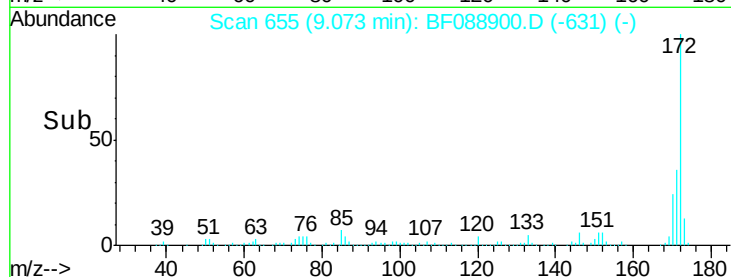
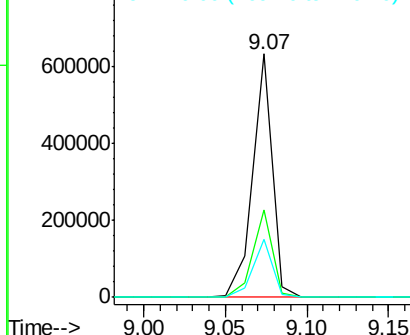
#44
2-Fluorobiphenyl
Concen: 69.97 ng
RT: 9.07 min Scan# 655
Delta R.T. -0.02 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 530619
Ion Ratio Lower Upper
172 100
171 36.0 28.6 43.0
170 23.8 19.2 28.8

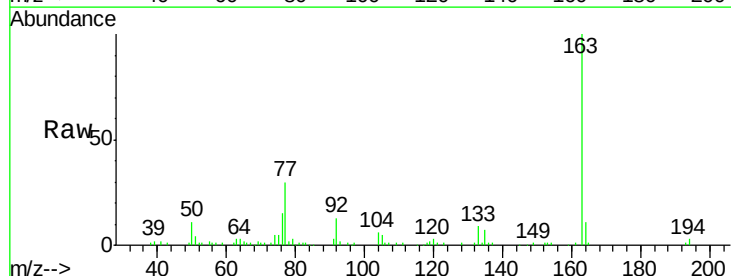


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

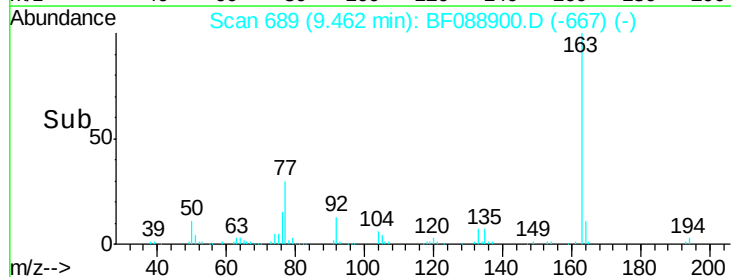
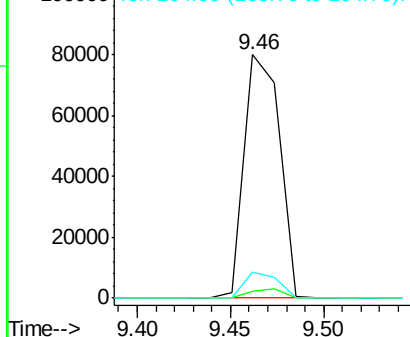


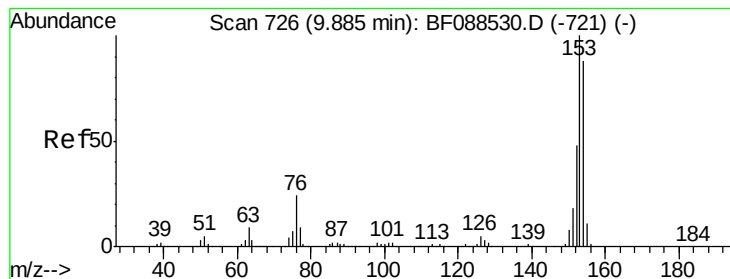
#49
Dimethylphthalate
Concen: 12.31 ng
RT: 9.46 min Scan# 689
Delta R.T. -0.05 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Tgt Ion:163 Resp: 105056
Ion Ratio Lower Upper
163 100
194 3.0 2.8 4.2
164 10.6 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: 3.19 ng

RT: 9.77 min Scan# 716

Delta R.T. -0.03 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

Instrument :

BNA_F

ClientSampleId :

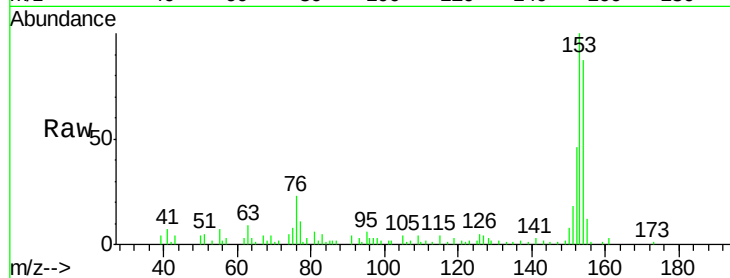
Tot Ion:154 Resp: 24194

Ion Ratio Lower Upper

154 100

153 114.7 89.5 134.3

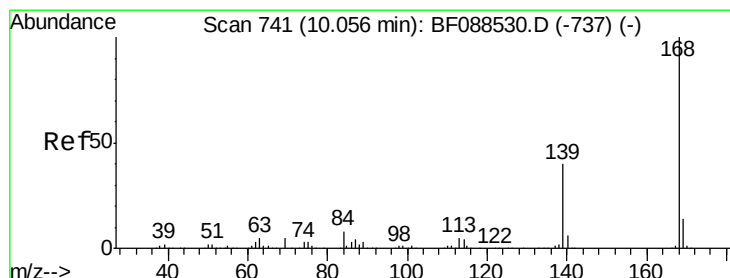
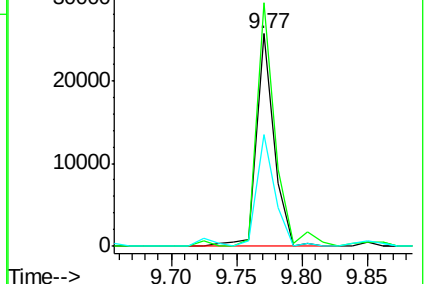
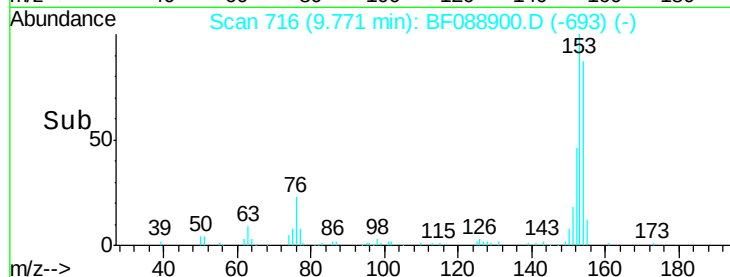
152 52.9 42.7 64.1



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



#54

Dibenzofuran

Concen: 2.39 ng

RT: 9.94 min Scan# 731

Delta R.T. -0.03 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

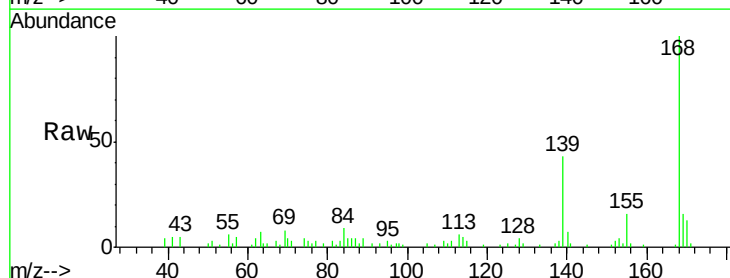
Tgt Ion:168 Resp: 23783

Ion Ratio Lower Upper

168 100

139 43.2 26.4 39.6#

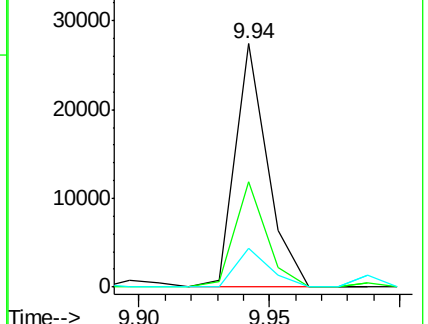
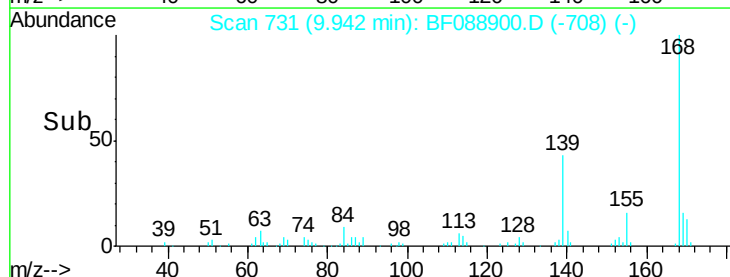
169 16.2 10.4 15.6#

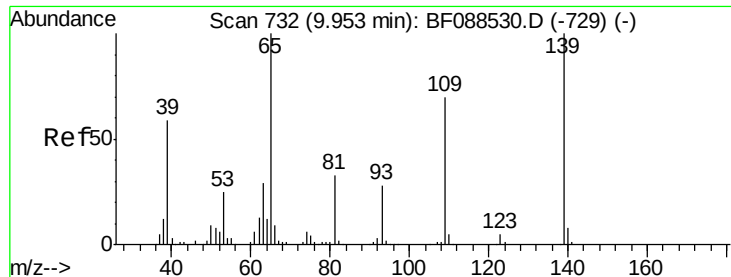


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

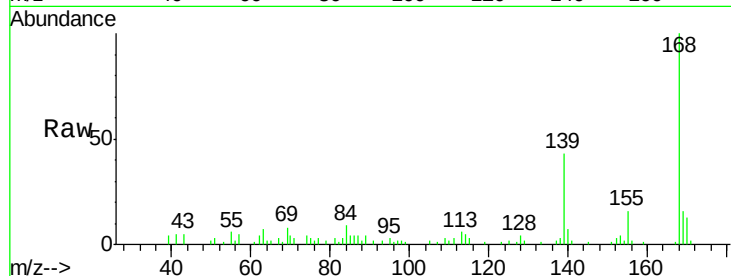




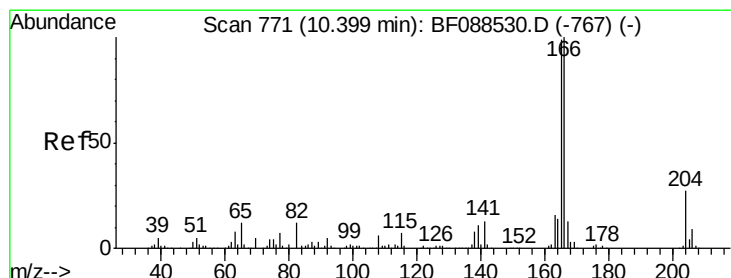
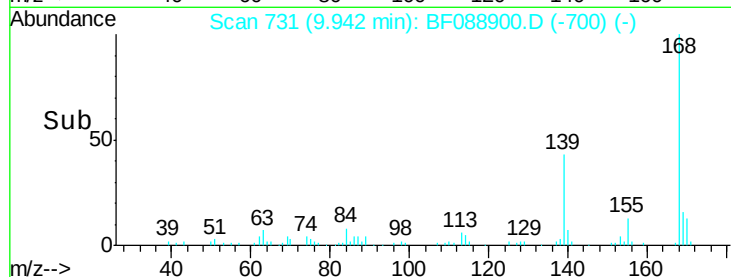
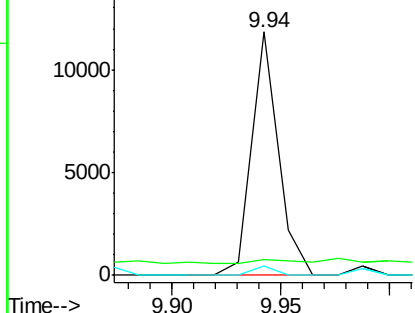
#55
4-Nitrophenol
Concen: 5.51 ng
RT: 9.94 min Scan# 731
Delta R.T. 0.06 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	6.4	48.9	88.9#
65	3.8	84.9	124.9#

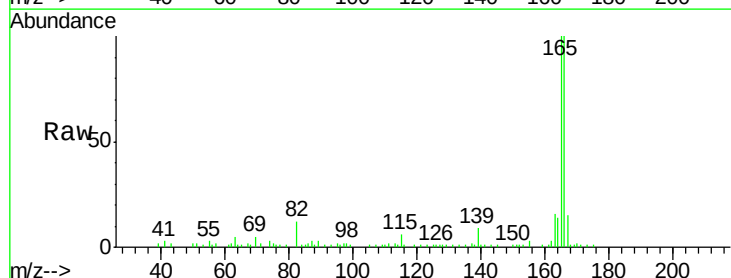


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

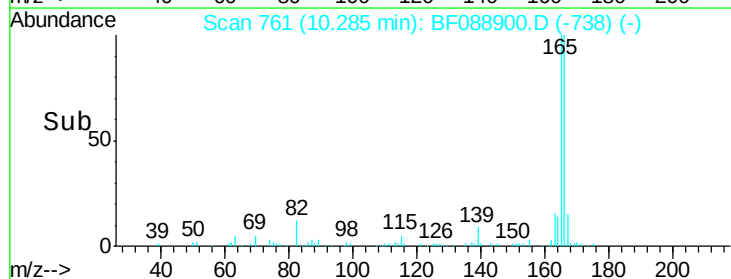
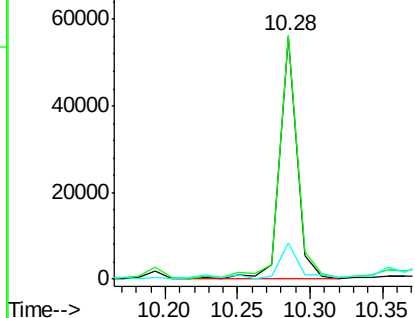


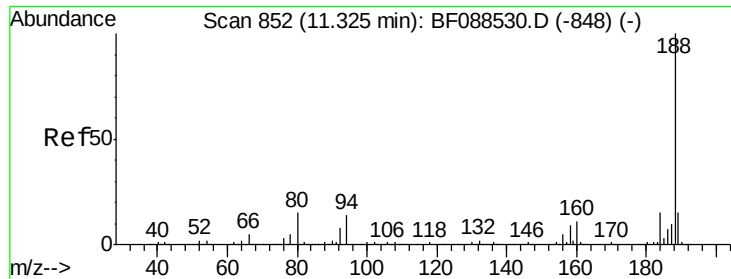
#57
Fluorene
Concen: 6.02 ng
RT: 10.28 min Scan# 761
Delta R.T. -0.03 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.2	77.8	116.8
167	14.8	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

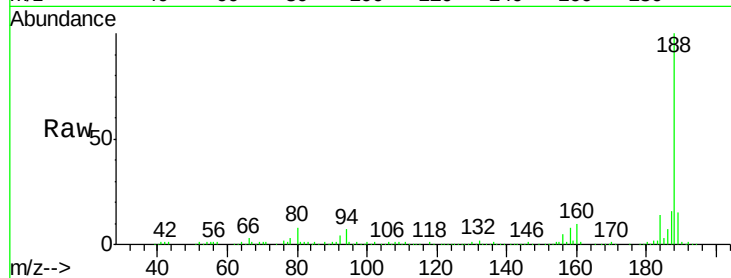




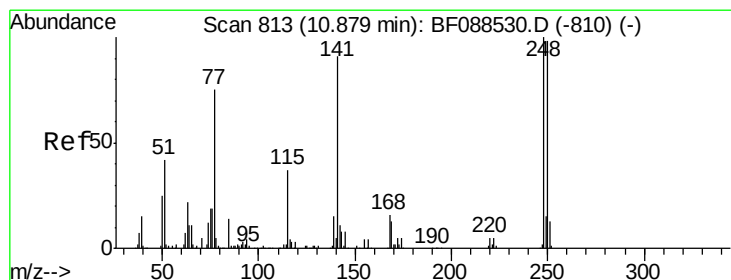
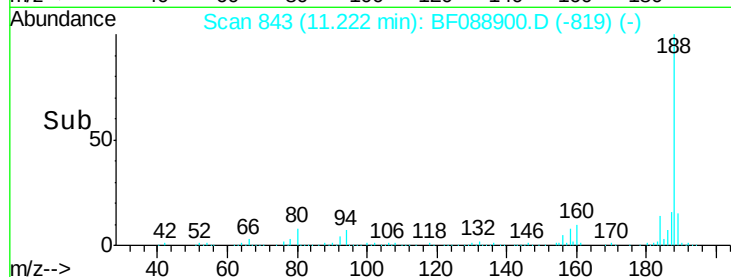
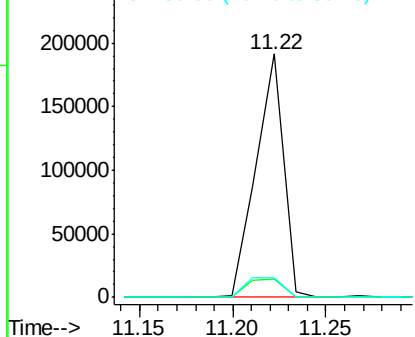
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.22 min Scan# 843
 Delta R.T. -0.02 min
 Lab File: BF088900.D
 Acq: 11 Jul 2016 15:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 194400
 Ion Ratio Lower Upper
 188 100
 94 7.5 9.0 13.6#
 80 7.8 10.0 15.0#

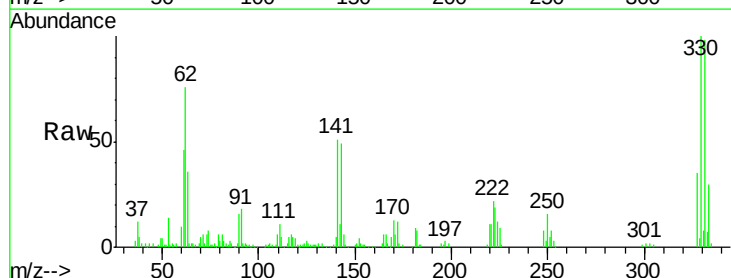


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

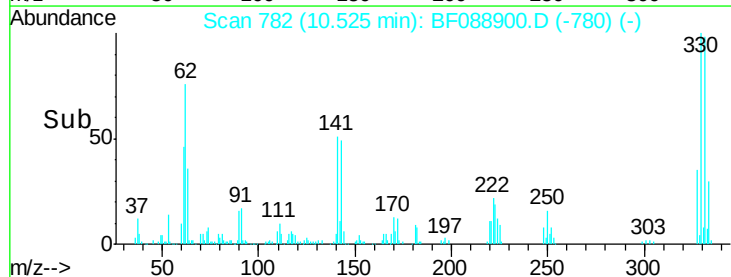
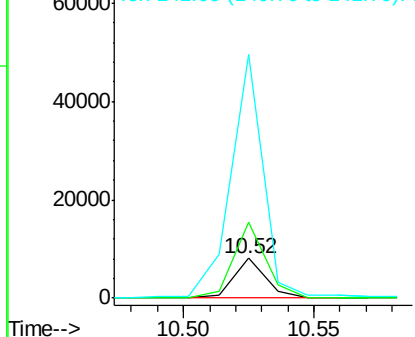


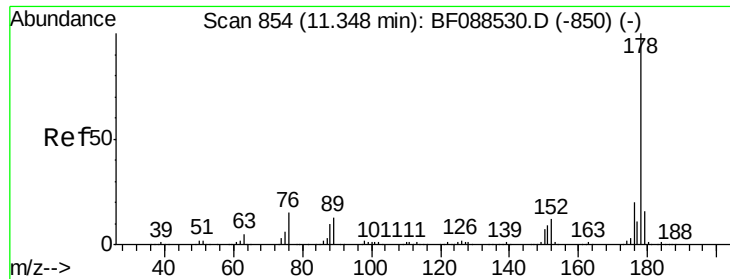
#66
 4-Bromophenyl-phenylether
 Concen: 3.56 ng
 RT: 10.52 min Scan# 782
 Delta R.T. -0.27 min
 Lab File: BF088900.D
 Acq: 11 Jul 2016 15:34

Tgt Ion:248 Resp: 6976
 Ion Ratio Lower Upper
 248 100
 250 191.1 77.1 115.7#
 141 610.2 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

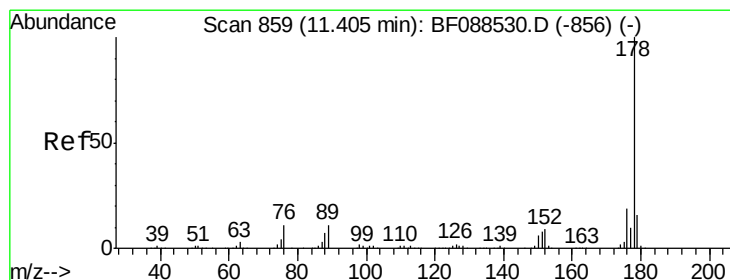
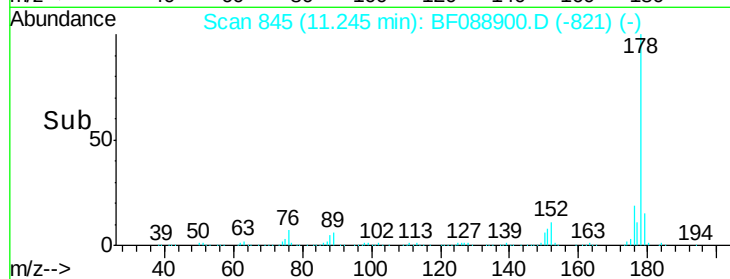
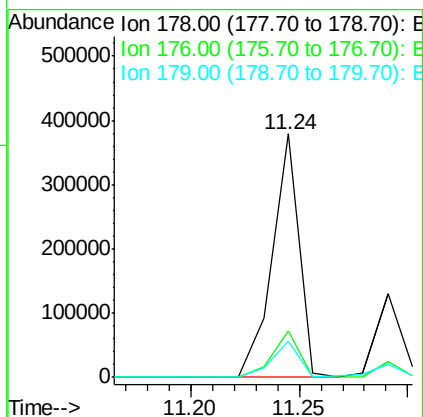
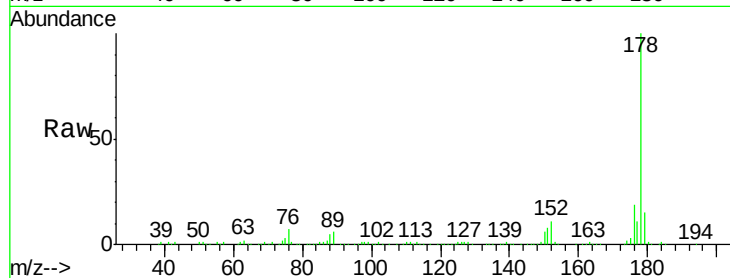




#70
Phenanthrene
Concen: 30.89 ng
RT: 11.24 min Scan# 845
Delta R.T. -0.02 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

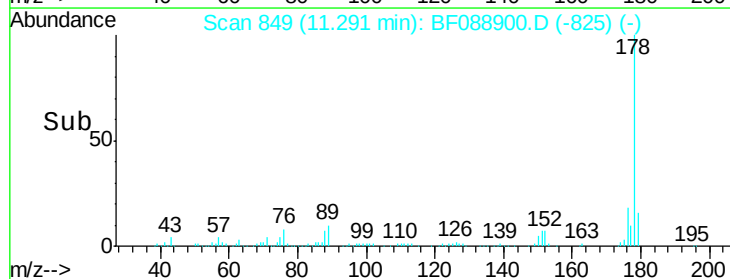
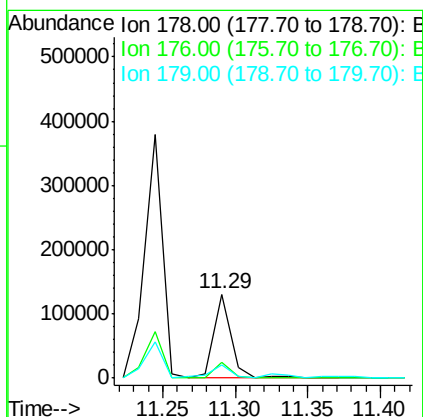
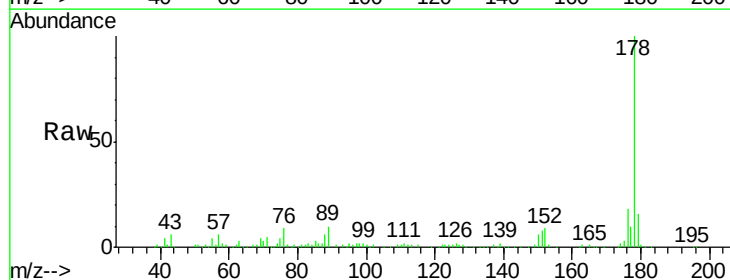
Instrument :
BNA_F
ClientSampleId :

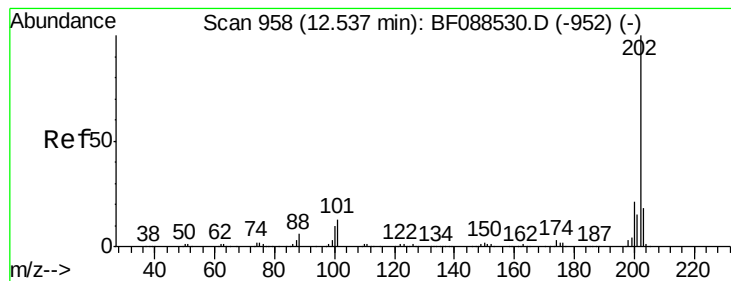
Tot Ion:178 Resp: 328219
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.6
179 15.2 13.0 19.4



#71
Anthracene
Concen: 10.18 ng
RT: 11.29 min Scan# 849
Delta R.T. -0.02 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Tgt Ion:178 Resp: 107559
Ion Ratio Lower Upper
178 100
176 18.2 15.6 23.4
179 15.5 12.8 19.2

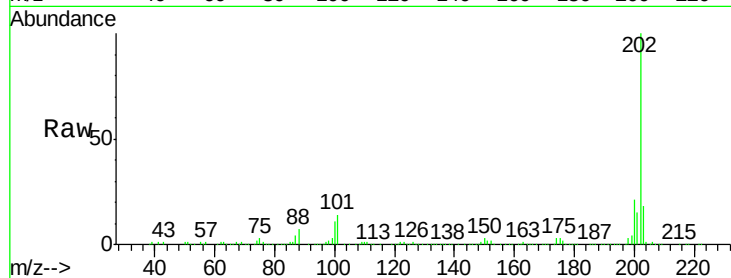




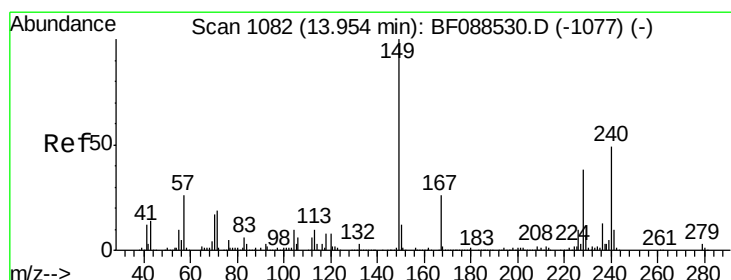
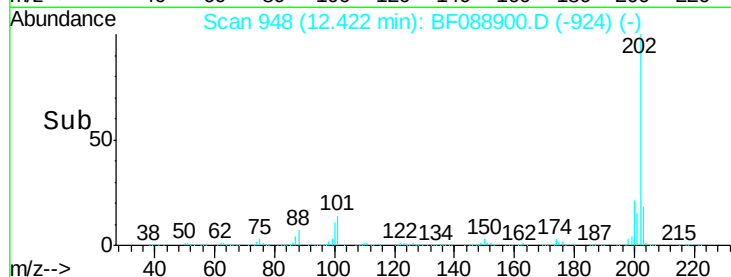
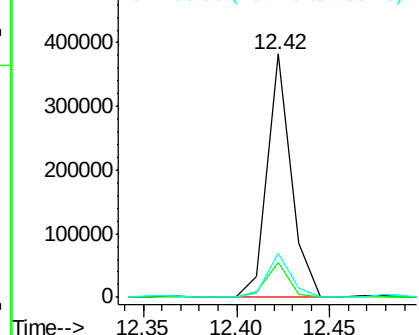
#74
Fluoranthene
Concen: 31.86 ng
RT: 12.42 min Scan# 948
Delta R.T. -0.02 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.4	0.0	33.1
203	17.9	0.0	38.1

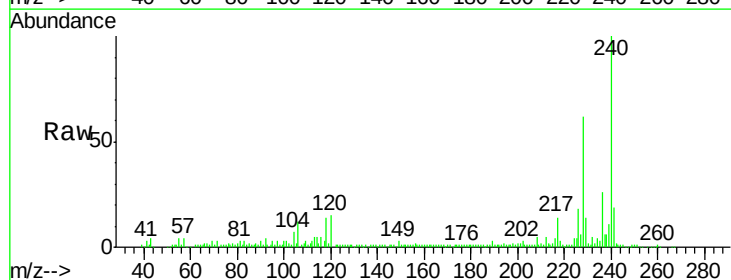


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

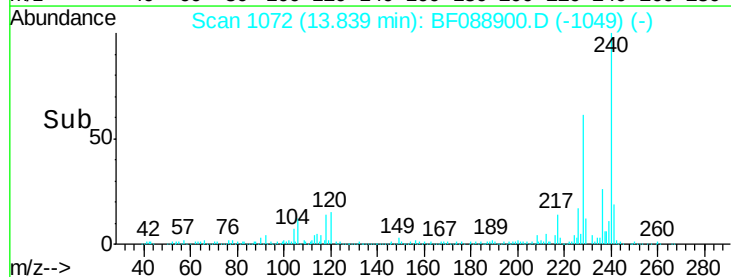
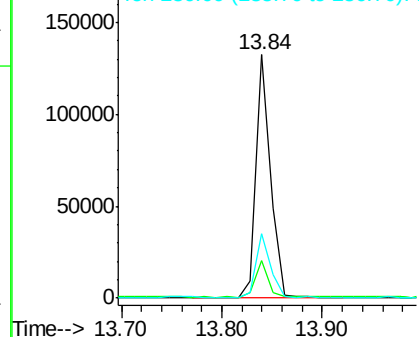


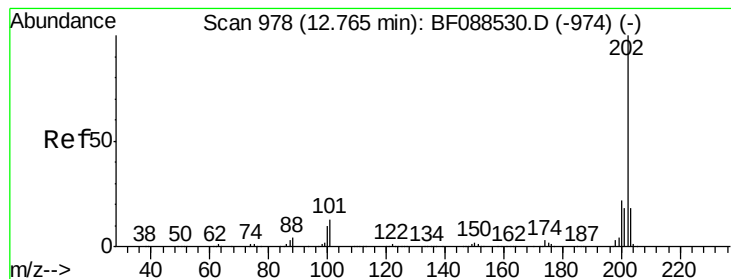
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.84 min Scan# 1072
Delta R.T. -0.03 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.4	6.8	10.2#
236	26.3	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

Pvrene

Concen: 30.43 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.02 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

Instrument :

BNA_F

ClientSampleId :

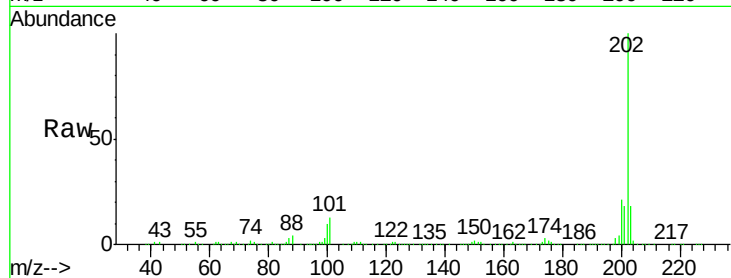
Tot Ion:202 Resp: 346897

Ion Ratio Lower Upper

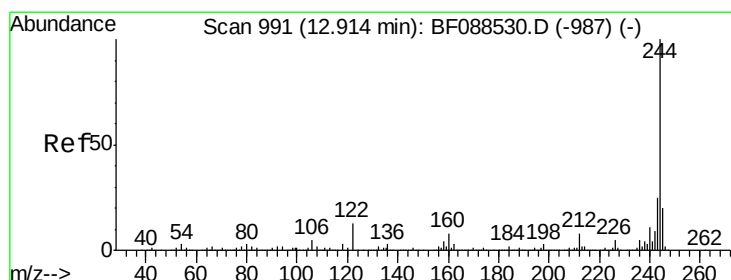
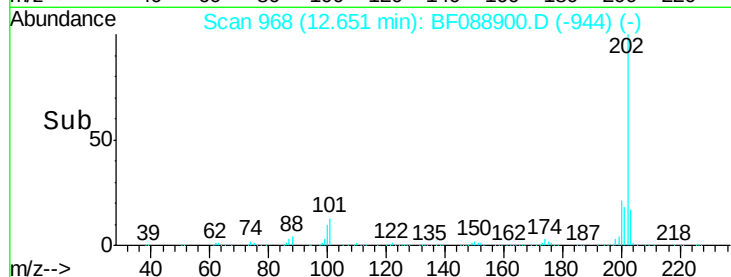
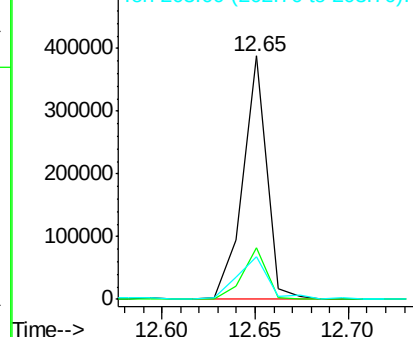
202 100

200 21.0 17.4 26.2

203 17.5 14.5 21.7



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 49.71 ng

RT: 12.80 min Scan# 981

Delta R.T. -0.02 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

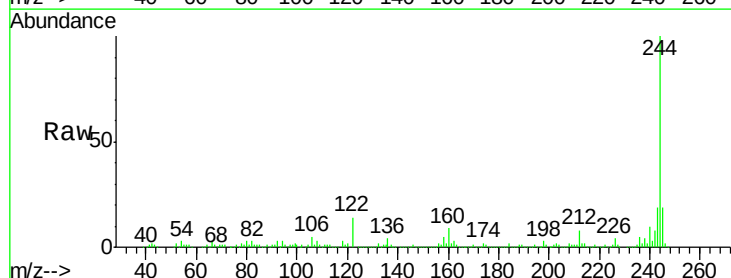
Tgt Ion:244 Resp: 300114

Ion Ratio Lower Upper

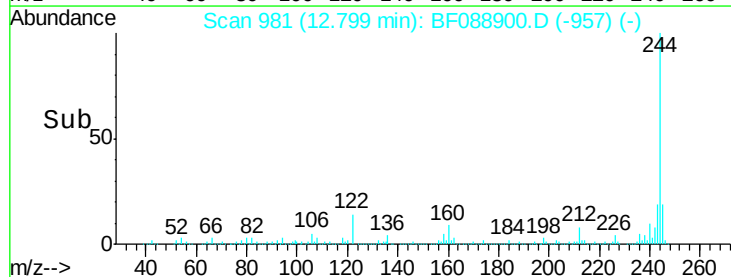
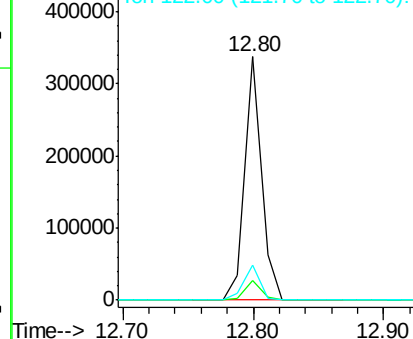
244 100

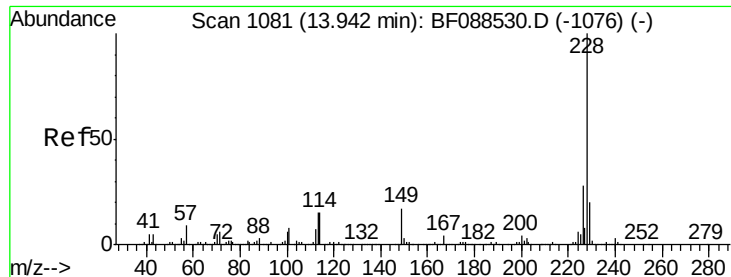
212 7.9 6.0 9.0

122 14.5 11.2 16.8



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E

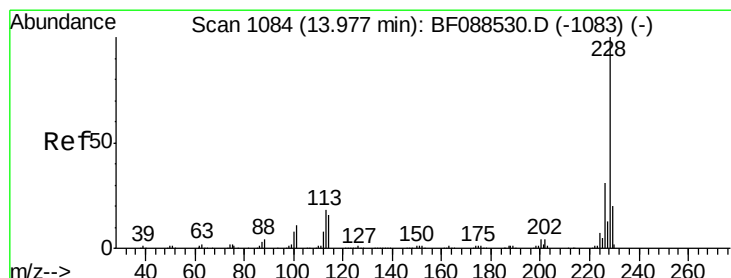
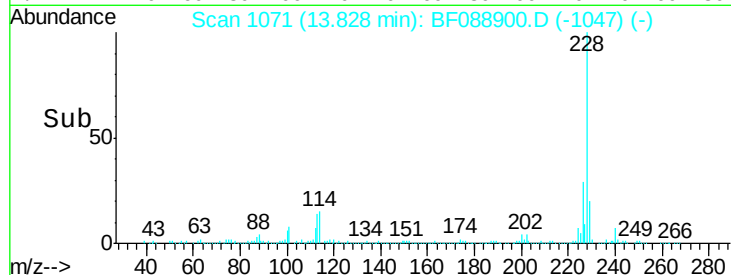
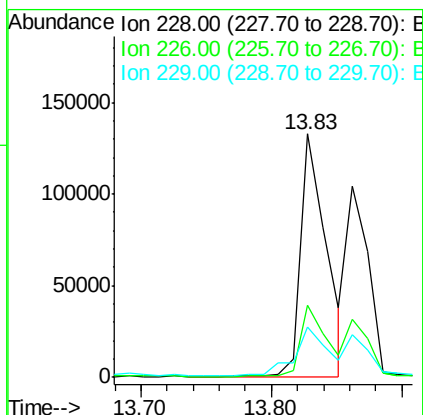
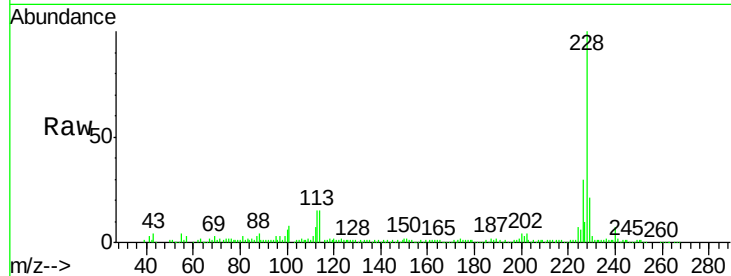




#80
Benzo(a)anthracene
Concen: 20.95 ng
RT: 13.83 min Scan# 1071
Delta R.T. -0.02 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

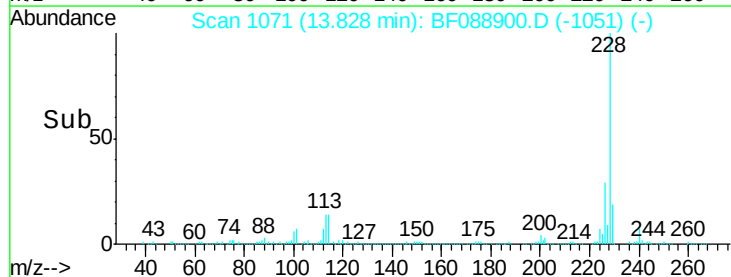
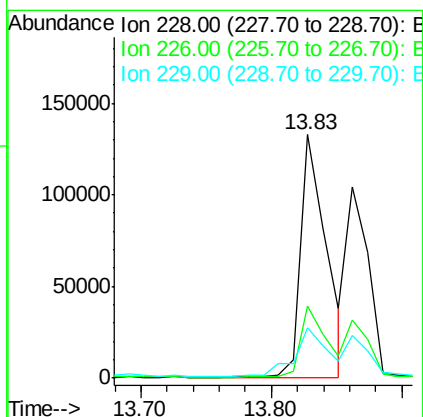
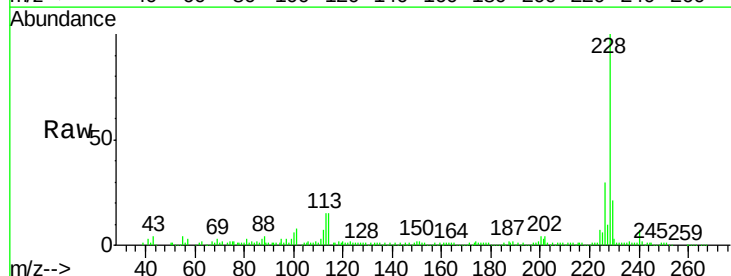
Instrument :
BNA_F
ClientSampleId :

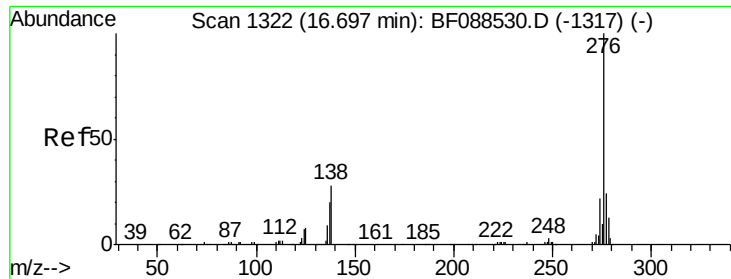
Tot Ion:228 Resp: 181353
Ion Ratio Lower Upper
228 100
226 29.7 22.3 33.5
229 20.9 16.0 24.0



#82
Chrysene
Concen: 21.17 ng
RT: 13.83 min Scan# 1071
Delta R.T. -0.07 min
Lab File: BF088900.D
Acq: 11 Jul 2016 15:34

Tgt Ion:228 Resp: 181353
Ion Ratio Lower Upper
228 100
226 29.7 25.4 38.2
229 20.9 16.3 24.5

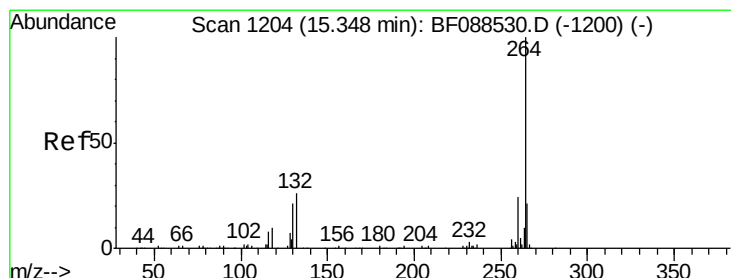
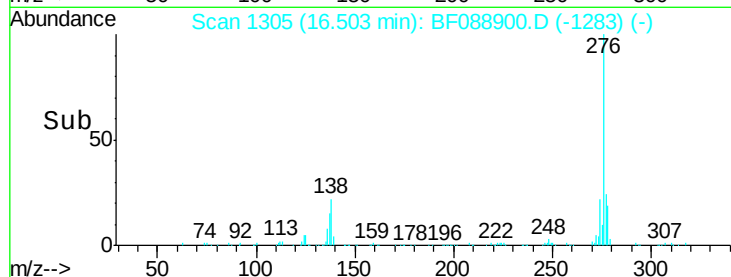
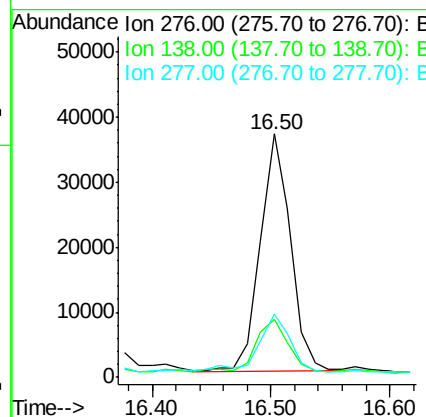
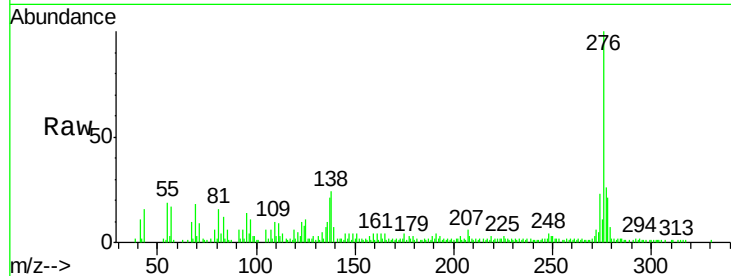




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.88 ng
 RT: 16.50 min Scan# 1305
 Delta R.T. -0.05 min
 Lab File: BF088900.D
 Acq: 11 Jul 2016 15:34

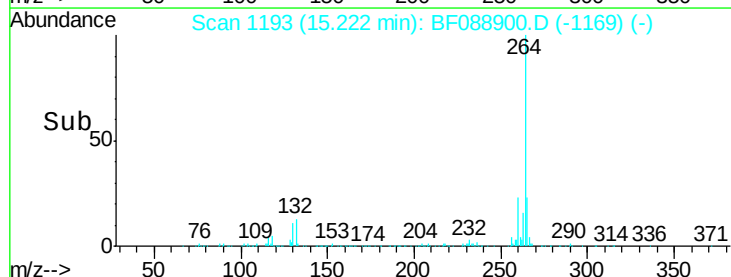
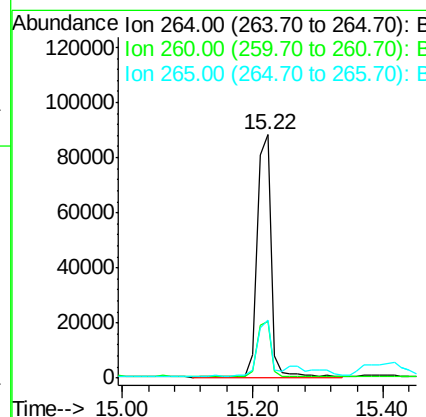
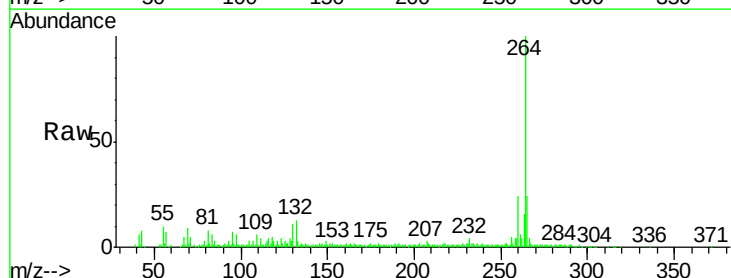
Instrument :
 BNA_F
 ClientSampleId :

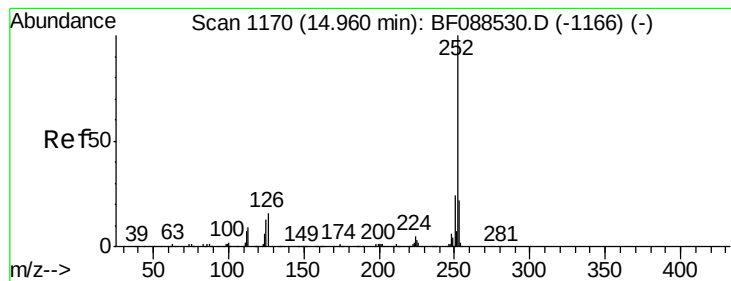
Tot Ion	Ratio	Lower	Upper
276	100		
138	26.0	0.0	0.0#
277	27.1	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.22 min Scan# 1193
 Delta R.T. -0.02 min
 Lab File: BF088900.D
 Acq: 11 Jul 2016 15:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	23.7	16.9	25.3





#87

Benzo(b)fluoranthene

Concen: 27.69 ng

RT: 14.83 min Scan# 1159

Delta R.T. -0.02 min

Lab File: BF088900.D

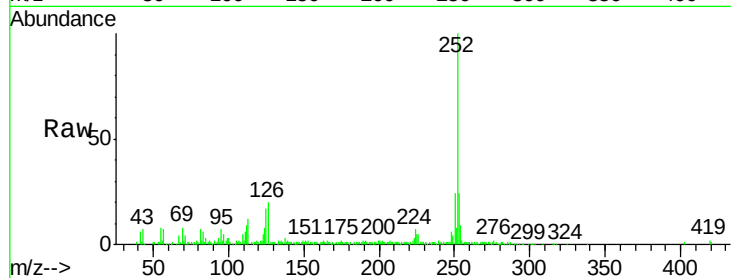
Acq: 11 Jul 2016 15:34

Instrument :

BNA_F

ClientSampleId :

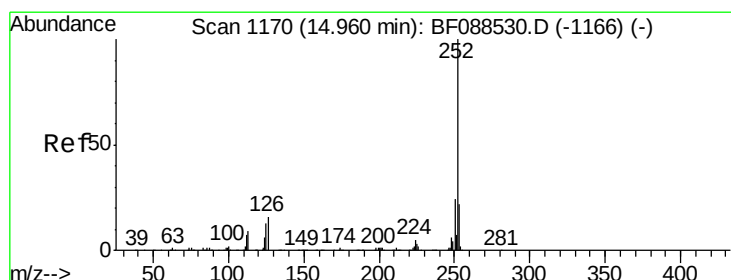
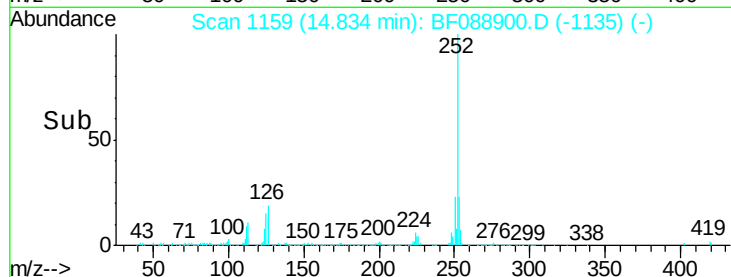
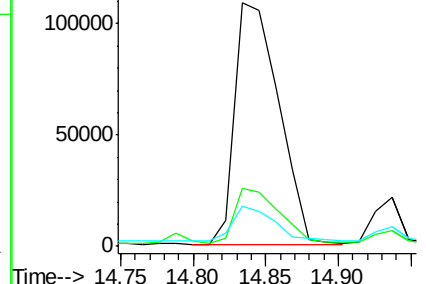
Tot Ion:	252	Resp:	229106
Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.4	26.2
125	16.7	7.1	10.7#



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



#88

Benzo(k)fluoranthene

Concen: 31.81 ng

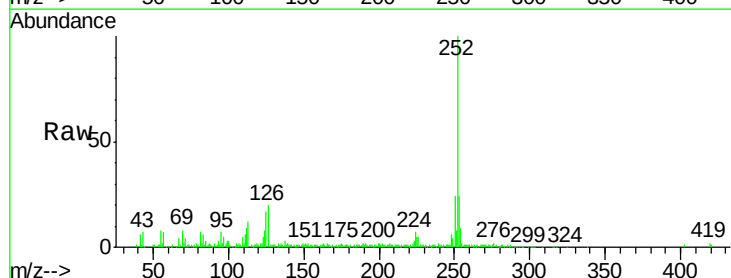
RT: 14.83 min Scan# 1159

Delta R.T. -0.06 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

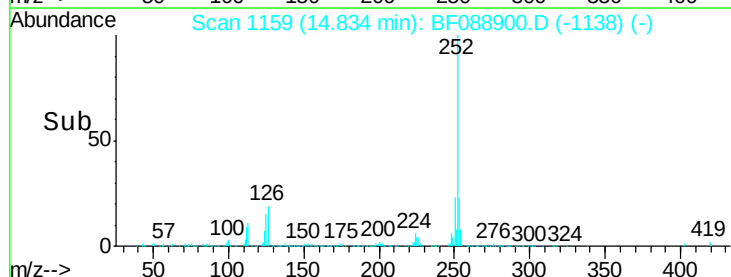
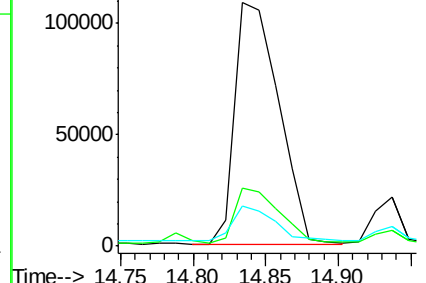
Tgt Ion:	252	Resp:	229106
Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	16.7	11.2	16.8

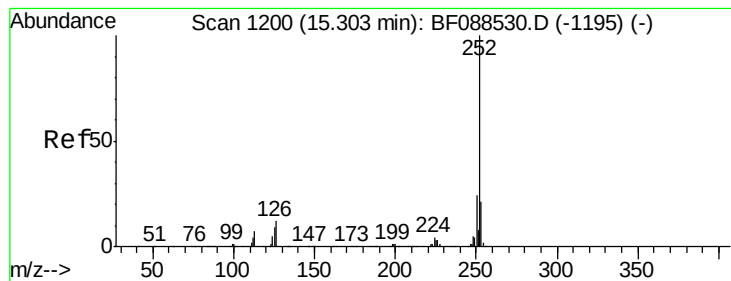


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 13.03 ng

RT: 15.11 min Scan# 1183

Delta R.T. -0.08 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

Instrument :

BNA_F

ClientSampleId :

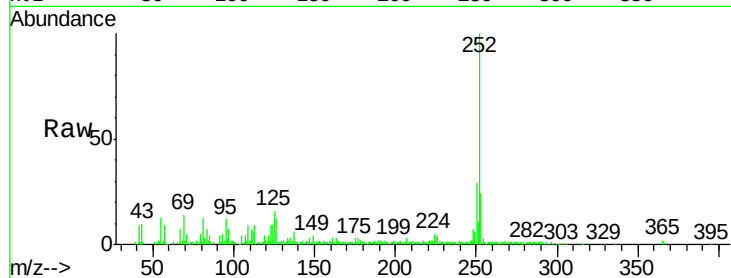
Tot Ion:252 Resp: 91301

Ion Ratio Lower Upper

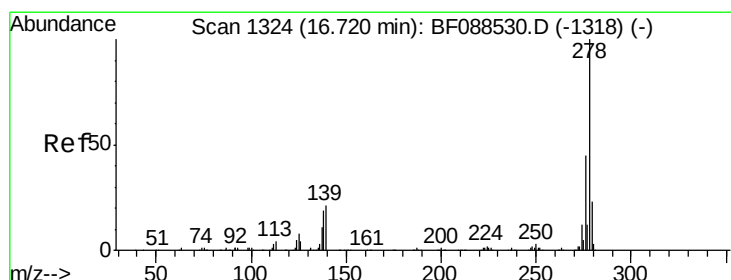
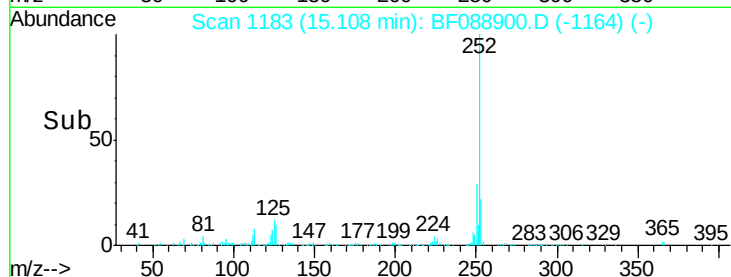
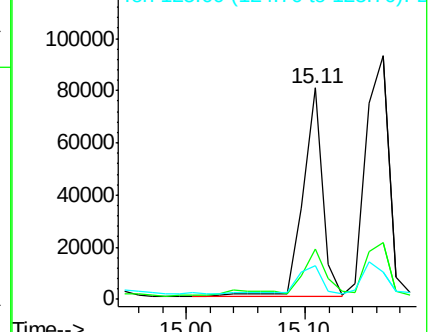
252 100

253 23.8 17.9 26.9

125 16.1 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: 3.18 ng

RT: 16.51 min Scan# 1306

Delta R.T. -0.05 min

Lab File: BF088900.D

Acq: 11 Jul 2016 15:34

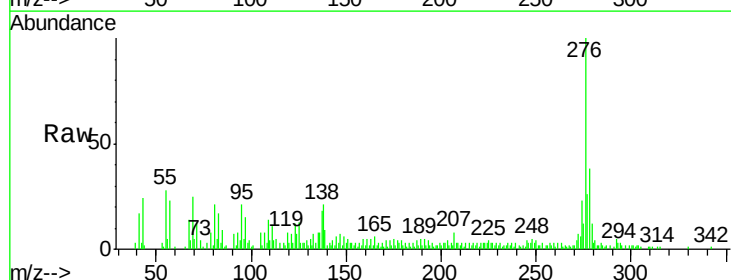
Tgt Ion:278 Resp: 18623

Ion Ratio Lower Upper

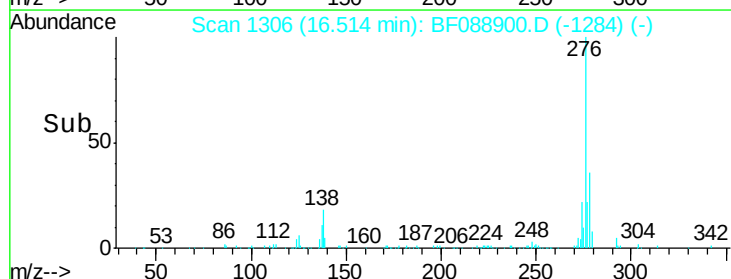
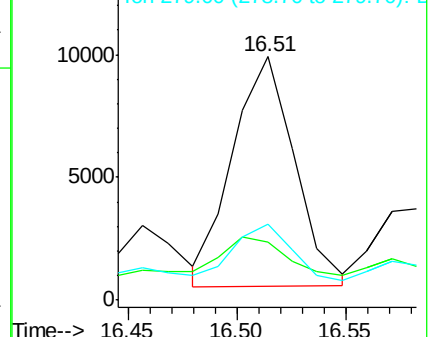
278 100

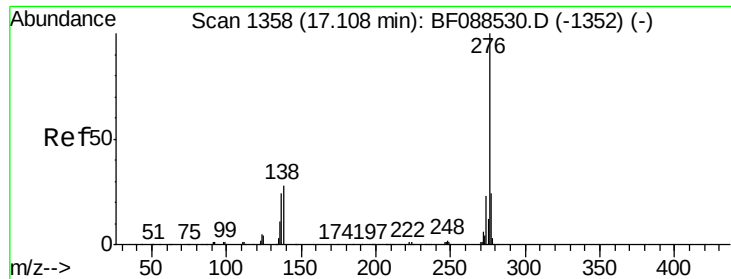
139 23.8 15.7 23.5#

279 31.2 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

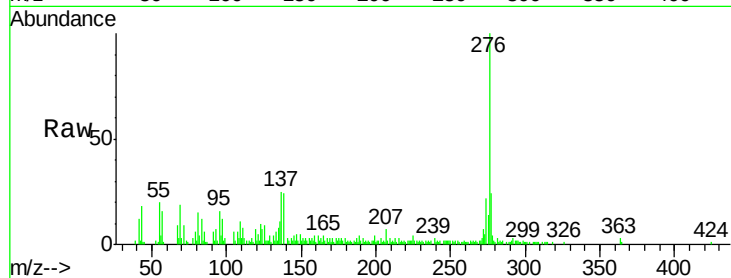




#91
 Benzo(a,h,i)perylene
 Concen: 10.47 ng
 RT: 16.89 min Scan# 1339
 Delta R.T. -0.05 min
 Lab File: BF088900.D
 Acq: 11 Jul 2016 15:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 276 Resp: 63364
 Ion Ratio Lower Upper
 276 100
 277 24.4 18.9 28.3
 138 24.4 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

