

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070316\
 Data File : BF088678.D
 Acq On : 4 Jul 2016 6:48
 Operator : UM/SJ
 Sample : H3784-06
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 04 07:49:28 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 30 18:01:55 2016
 Response via : Initial Calibration

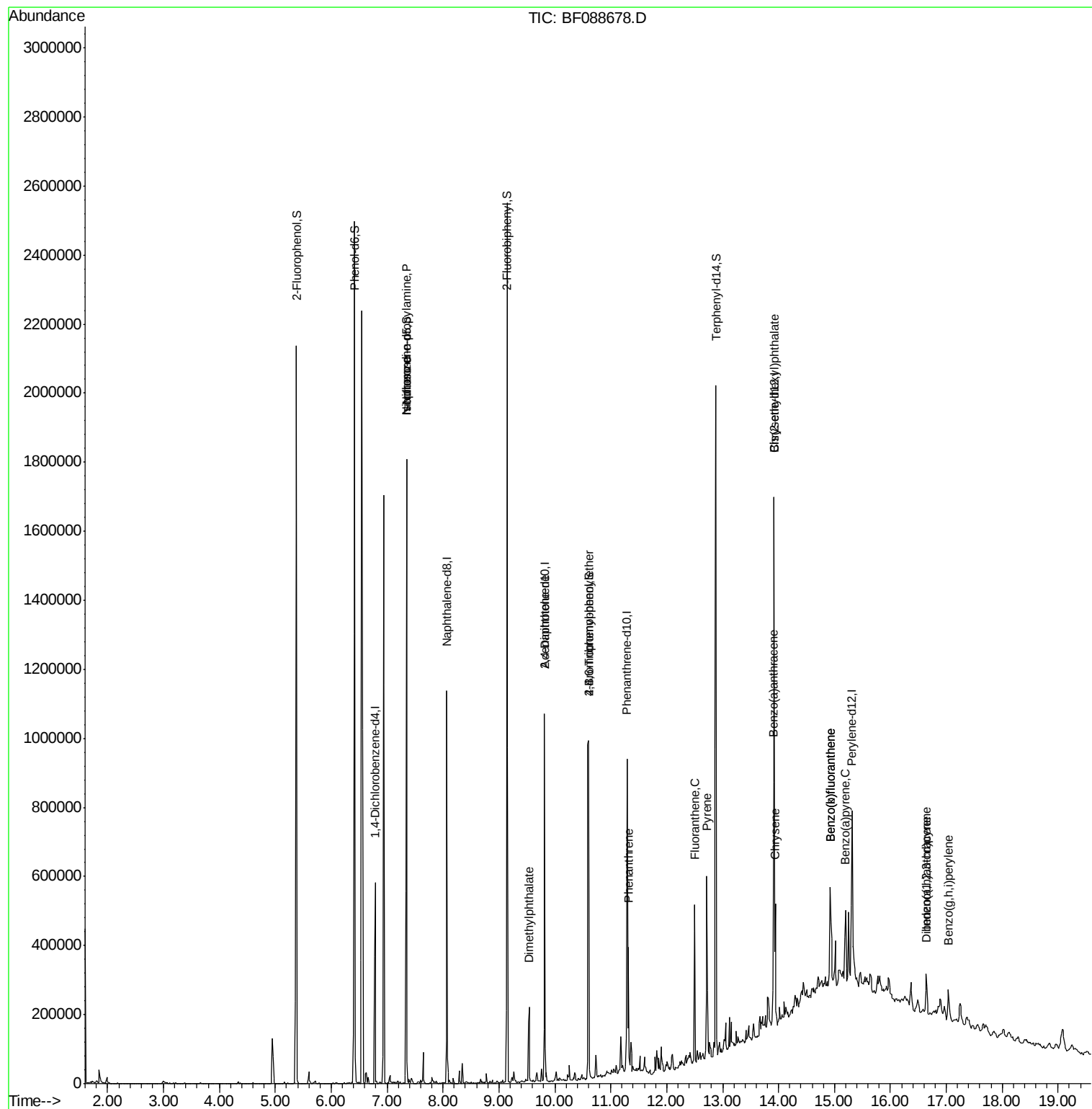
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	108758	20.00	ng	-0.02
21) Naphthalene-d8	8.07	136	436900	20.00	ng	-0.03
38) Acenaphthene-d10	9.82	164	185314	20.00	ng	-0.03
63) Phenanthrene-d10	11.29	188	289397	20.00	ng	-0.03
75) Chrysene-d12	13.92	240	221347	20.00	ng	-0.03
86) Perylene-d12	15.31	264	204696	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	803612	110.74	ng	-0.02
7) Phenol-d6	6.42	99	992550	105.85	ng	-0.02
23) Nitrobenzene-d5	7.35	82	593164	71.15	ng	-0.03
41) 2,4,6-Tribromophenol	10.60	330	175936	102.24	ng	-0.03
44) 2-Fluorobiphenyl	9.14	172	857130	73.06	ng	-0.03
78) Terphenyl-d14	12.88	244	625272	62.92	ng	-0.03
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.35	70	81337	12.91	ng	# 73
25) Isophorone	7.35	82	454129	29.41	ng	# 65
49) Dimethylphthalate	9.54	163	119182	9.03	ng	98
56) 2,4-Dinitrotoluene	9.82	165	23941	6.26	ng	# 38
66) 4-Bromophenyl-phenylether	10.60	248	11067	3.79	ng	# 1
70) Phenanthrene	11.31	178	115651	7.31	ng	99
74) Fluoranthene	12.50	202	246278	15.36	ng	94
77) Pyrene	12.72	202	211946	11.29	ng	98
80) Benzo(a)anthracene	13.91	228	122677	8.61	ng	98
82) Chrysene	13.94	228	99873	7.08	ng	96
83) Bis(2-ethylhexyl)phthalate	13.92	149	220164	23.04	ng	100
85) Indeno(1,2,3-cd)pyrene	16.64	276	69088	6.37	ng	# 100
87) Benzo(b)fluoranthene	14.93	252	225824	17.59	ng	# 92
88) Benzo(k)fluoranthene	14.93	252	225824	20.20	ng	98
89) Benzo(a)pyrene	15.20	252	87298	8.03	ng	97
90) Dibenzo(a,h)anthracene	16.65	278	18201	2.00	ng	# 85
91) Benzo(a,h,i)perylene	17.04	276	68860	7.33	ng	99

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.79 min Scan# 455

Delta R.T. -0.02 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Instrument :

BNA_F

ClientSampleId :

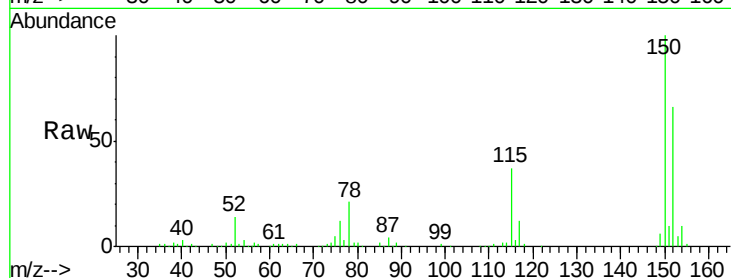
Tot Ion:152 Resp: 108758

Ion Ratio Lower Upper

152 100

150 152.3 123.8 185.6

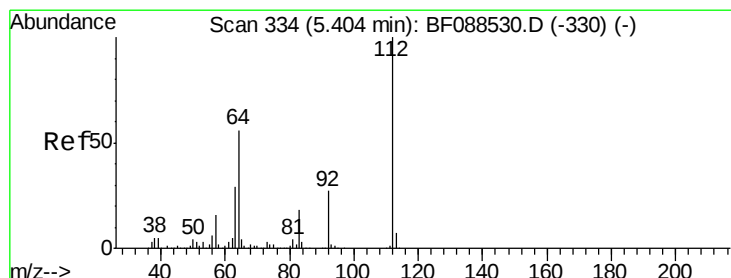
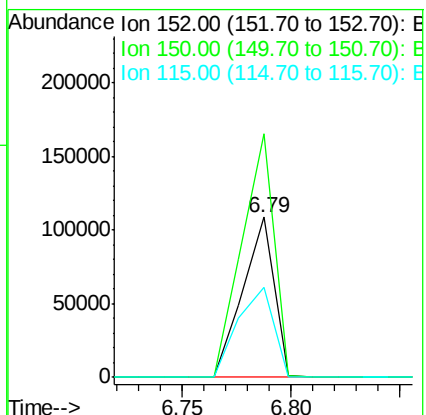
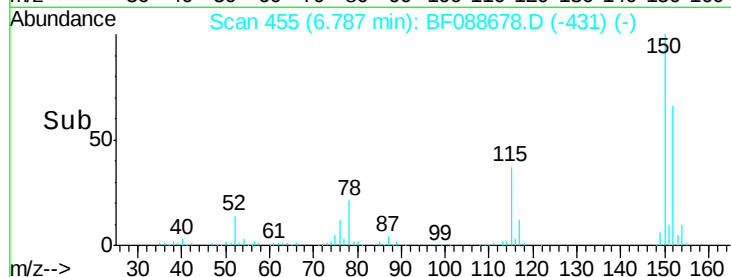
115 56.0 39.6 59.4



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: 110.74 ng

RT: 5.38 min Scan# 332

Delta R.T. -0.02 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

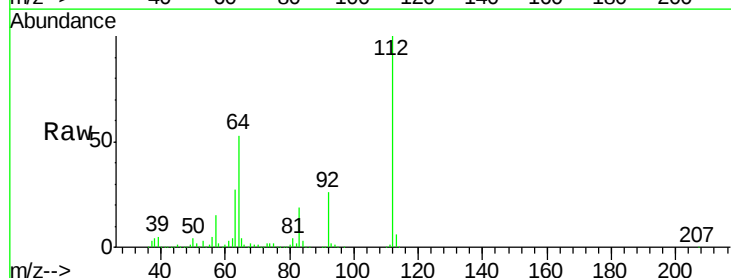
Tgt Ion:112 Resp: 803612

Ion Ratio Lower Upper

112 100

64 52.7 42.2 63.2

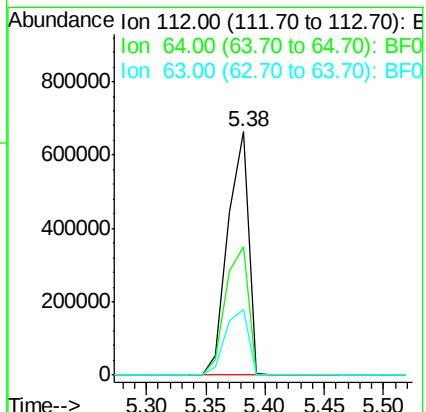
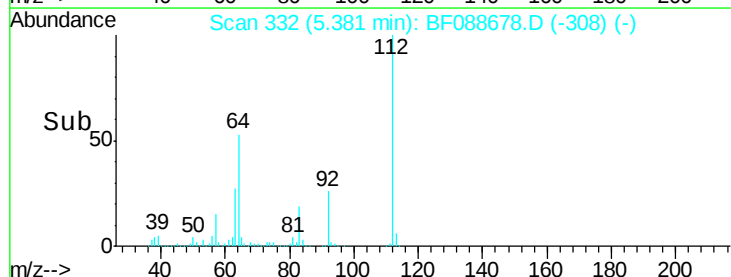
63 27.1 21.8 32.8



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: 105.85 ng

RT: 6.42 min Scan# 423

Delta R.T. -0.02 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Instrument :

BNA_F

ClientSampleId :

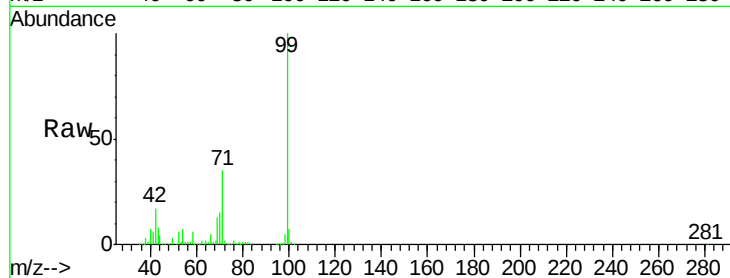
Tot Ion: 99 Resp: 992550

Ion Ratio Lower Upper

99 100

42 16.8 12.2 18.2

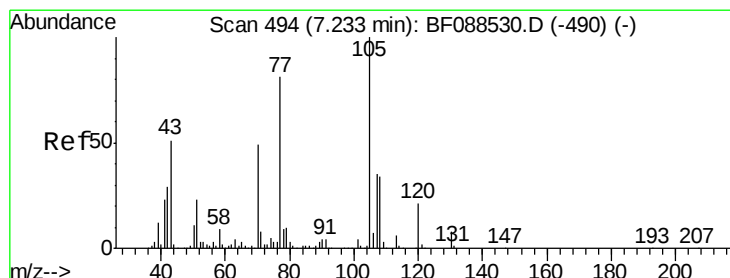
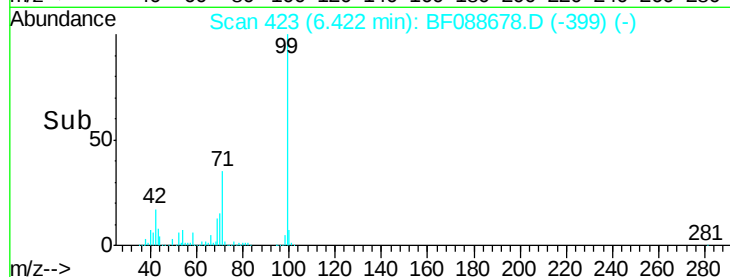
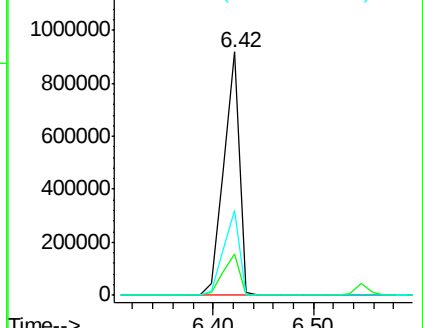
71 35.1 23.4 35.0#



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: 12.91 ng

RT: 7.35 min Scan# 504

Delta R.T. 0.11 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Tgt Ion: 70 Resp: 81337

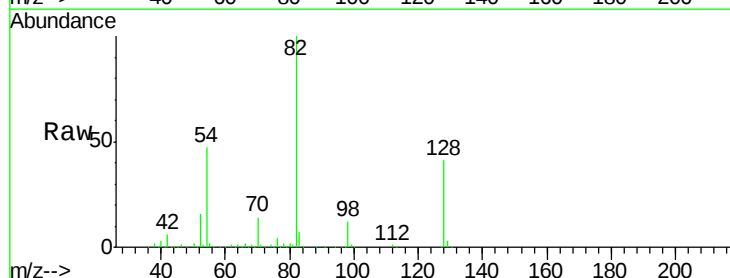
Ion Ratio Lower Upper

70 100

42 43.6 49.6 74.4#

101 0.0 7.1 10.7#

130 2.1 15.4 23.2#

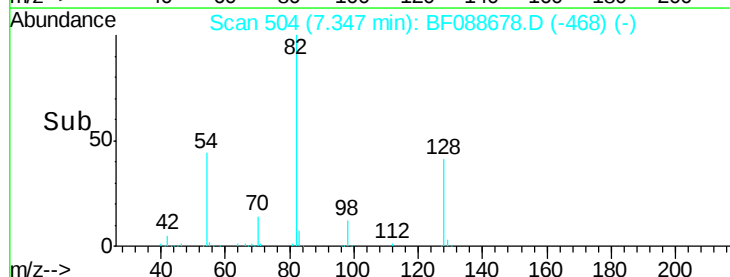
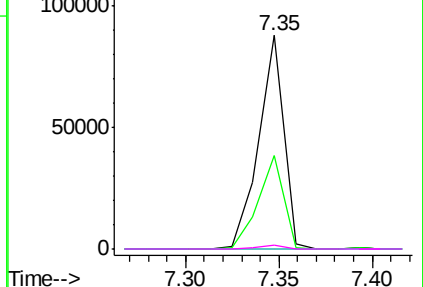


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.07 min Scan# 567

Delta R.T. -0.03 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 436900

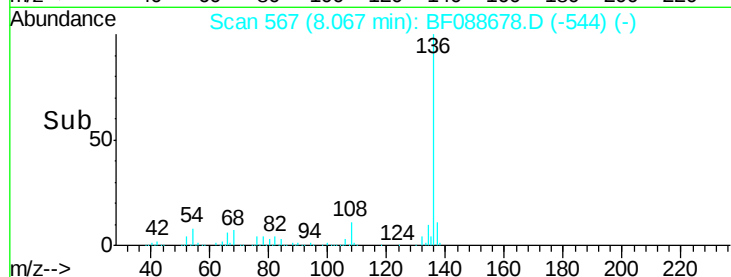
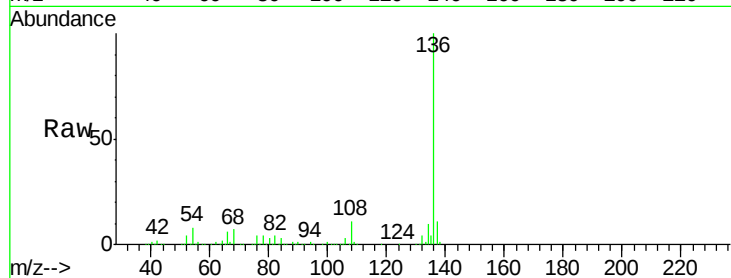
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 8.1 6.6 10.0

68 6.9 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

8.07

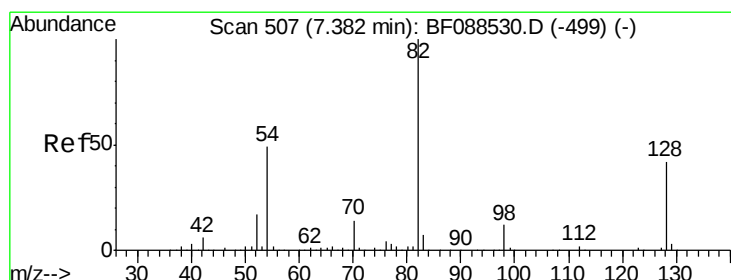
600000

400000

200000

0

Time--> 8.00 8.05 8.10 8.15



#23

Nitrobenzene-d5

Concen: 71.15 ng

RT: 7.35 min Scan# 504

Delta R.T. -0.03 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

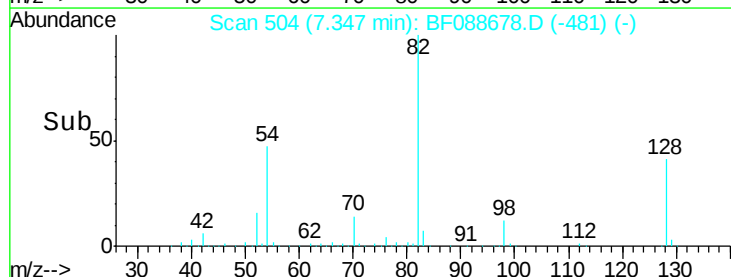
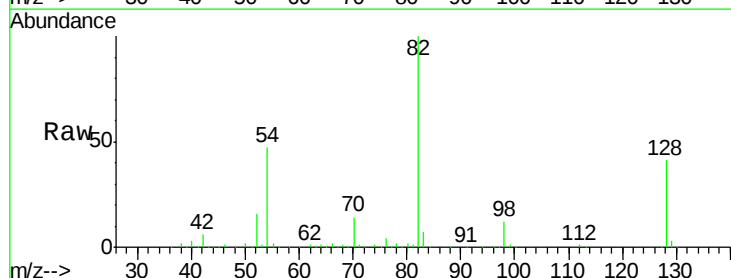
Tgt Ion: 82 Resp: 593164

Ion Ratio Lower Upper

82 100

128 41.5 35.9 53.9

54 47.4 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

7.35

800000

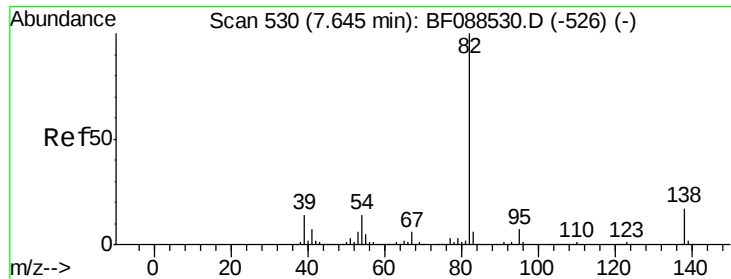
600000

400000

200000

0

Time--> 7.30 7.35 7.40



#25

Isophorone

Concen: 29.41 ng

RT: 7.35 min Scan# 504

Delta R.T. -0.30 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Instrument :

BNA_F

ClientSampleId :

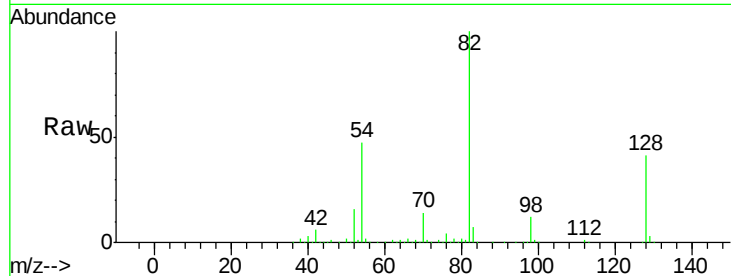
Tot Ion: 82 Resp: 454129

Ion Ratio Lower Upper

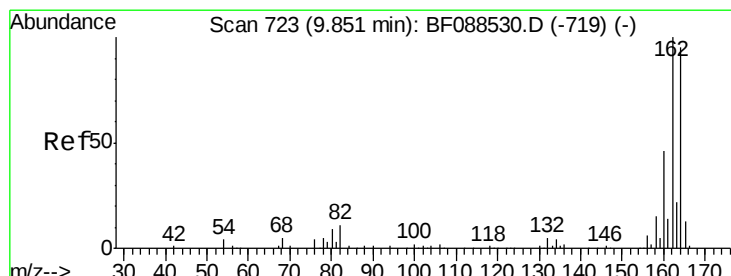
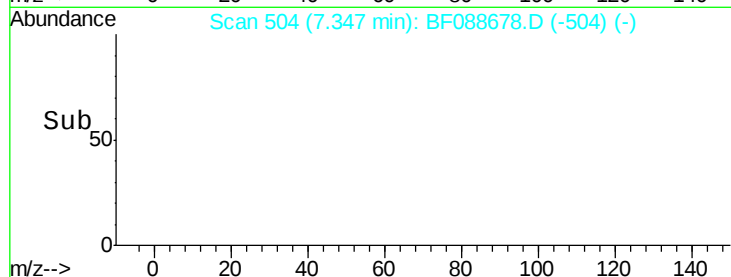
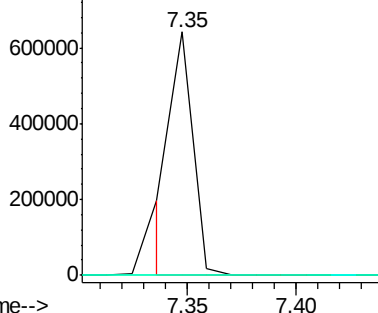
82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.82 min Scan# 720

Delta R.T. -0.03 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

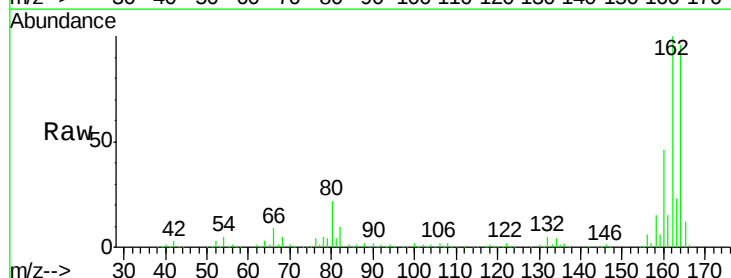
Tgt Ion: 164 Resp: 185314

Ion Ratio Lower Upper

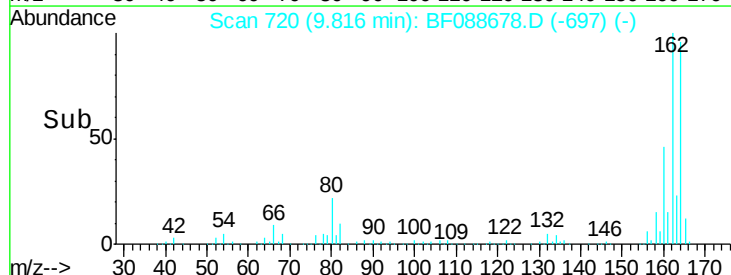
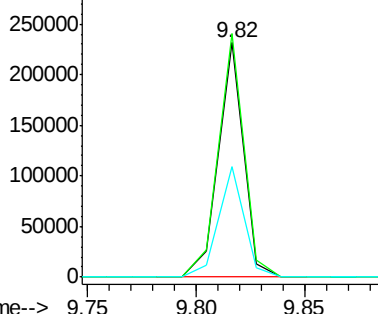
164 100

162 103.9 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

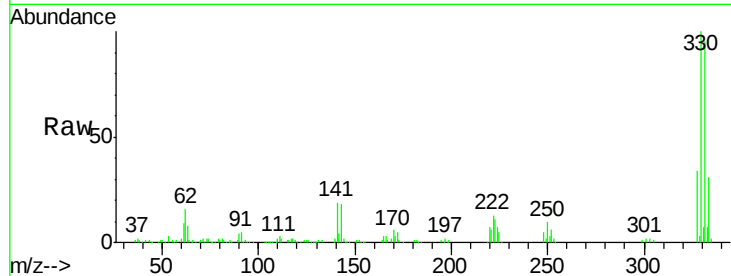




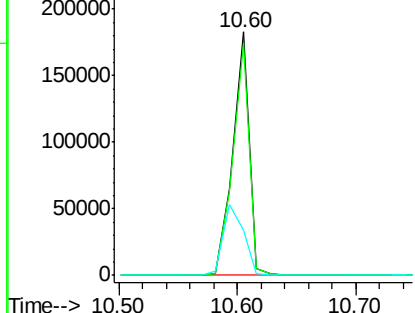
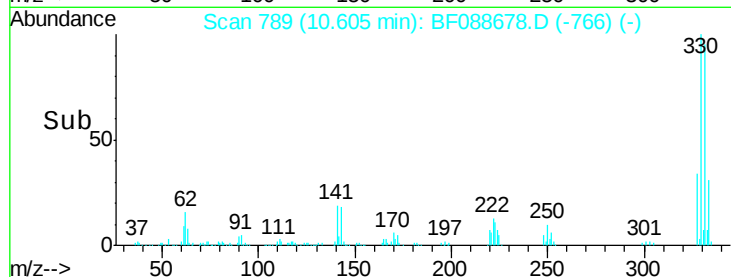
#41
 2,4,6-Tribromophenol
 Concen: 102.24 ng
 RT: 10.60 min Scan# 789
 Delta R.T. -0.03 min
 Lab File: BF088678.D
 Acq: 4 Jul 2016 6:48

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.9	0.0	0.0#
141	35.9	0.0	0.0#

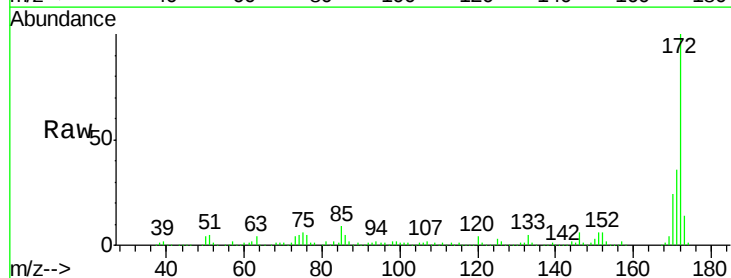


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

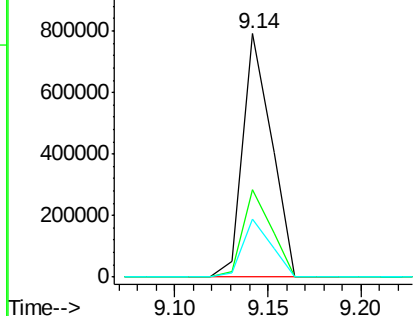
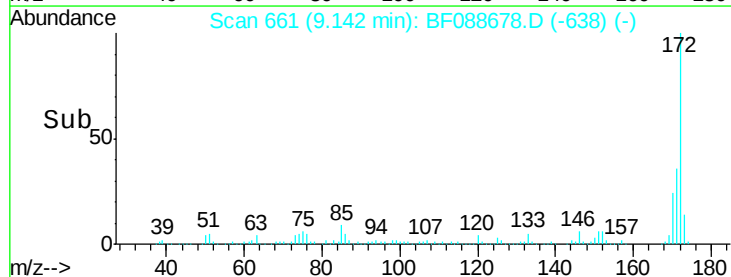


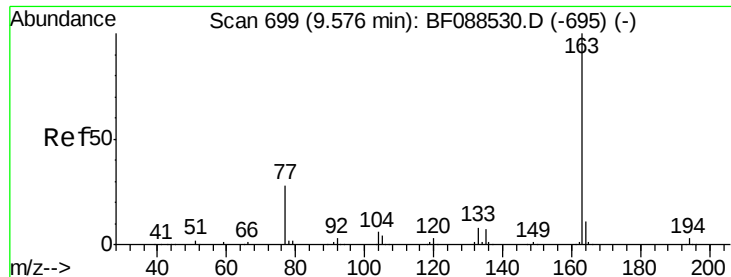
#44
 2-Fluorobiphenyl
 Concen: 73.06 ng
 RT: 9.14 min Scan# 661
 Delta R.T. -0.03 min
 Lab File: BF088678.D
 Acq: 4 Jul 2016 6:48

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	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: 9.03 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.03 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Instrument :

BNA_F

ClientSampleId :

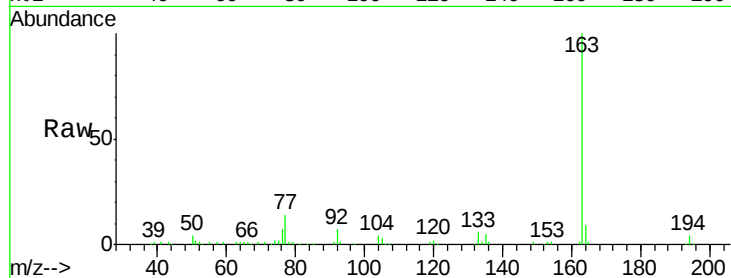
Tot Ion:163 Resp: 119182

Ion Ratio Lower Upper

163 100

194 3.9 2.8 4.2

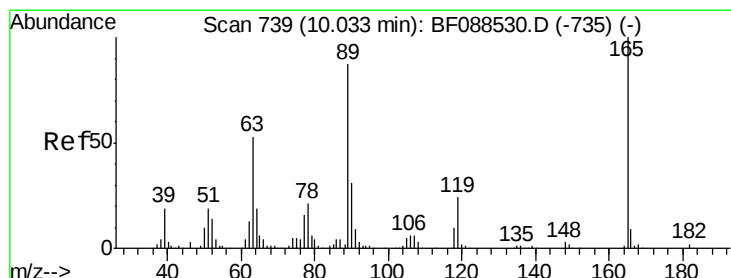
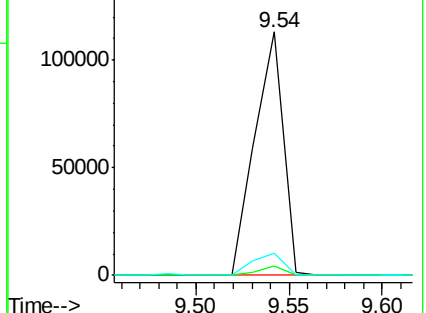
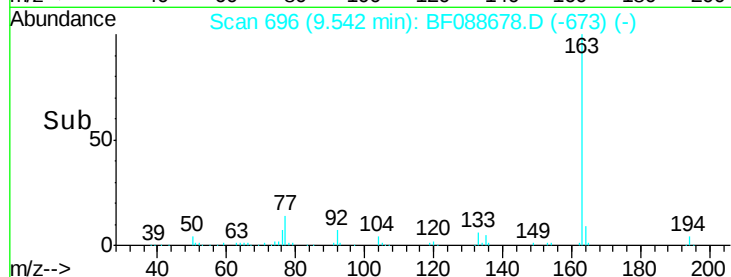
164 9.4 8.3 12.5



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: 6.26 ng

RT: 9.82 min Scan# 720

Delta R.T. -0.22 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Tgt Ion:165 Resp: 23941

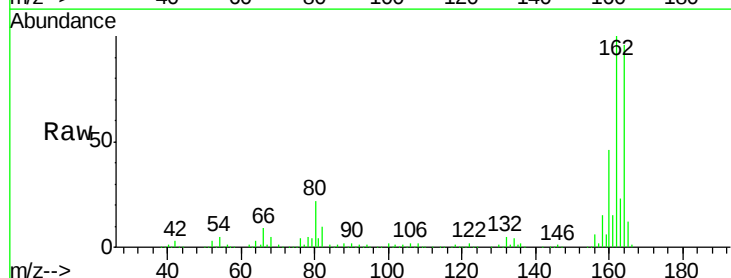
Ion Ratio Lower Upper

165 100

63 1.7 22.0 33.0#

89 1.9 41.1 61.7#

182 0.0 2.0 3.0#

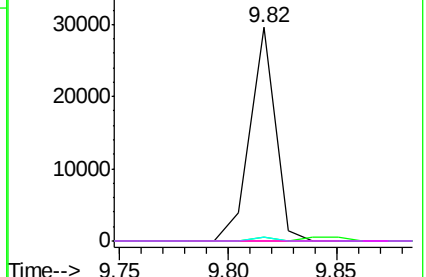
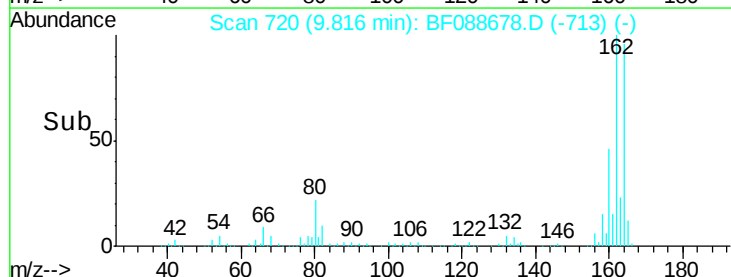


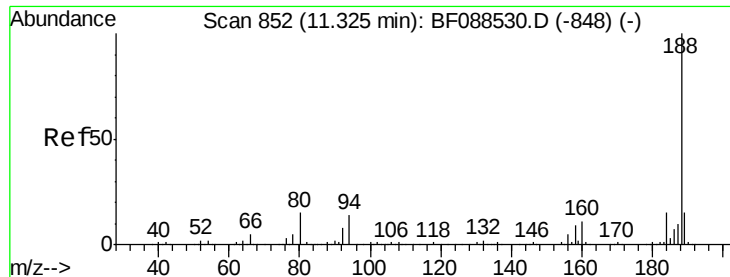
Abundance Ion 165.00 (164.70 to 165.70): E

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

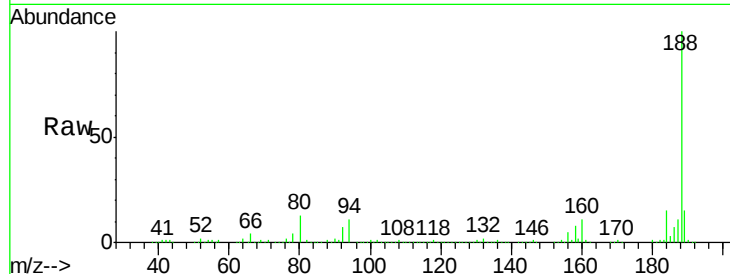




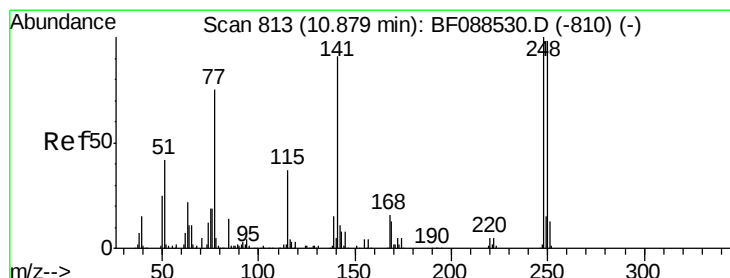
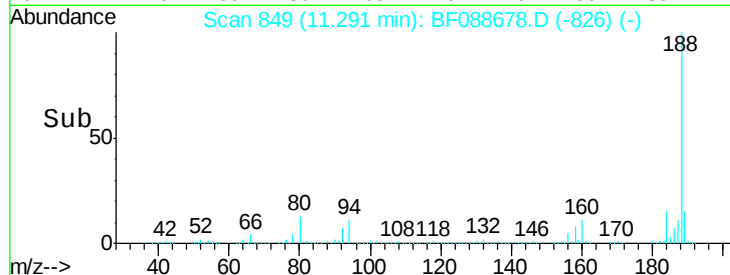
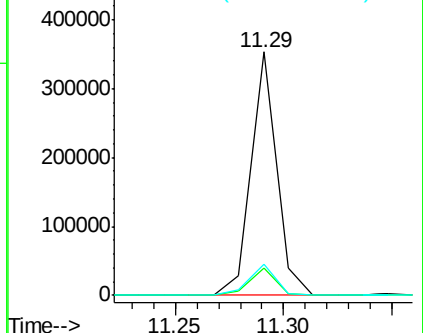
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.29 min Scan# 849
Delta R.T. -0.03 min
Lab File: BF088678.D
Acq: 4 Jul 2016 6:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 289397
Ion Ratio Lower Upper
188 100
94 11.2 9.0 13.6
80 12.6 10.0 15.0

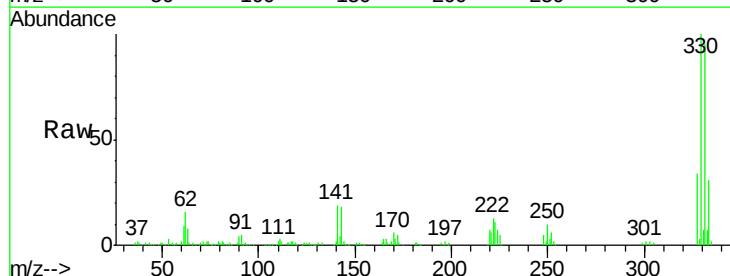


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

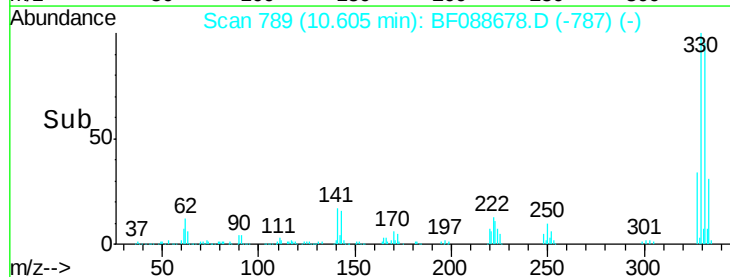
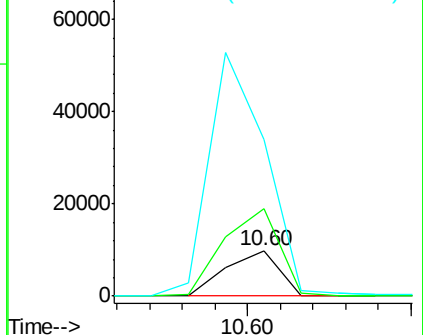


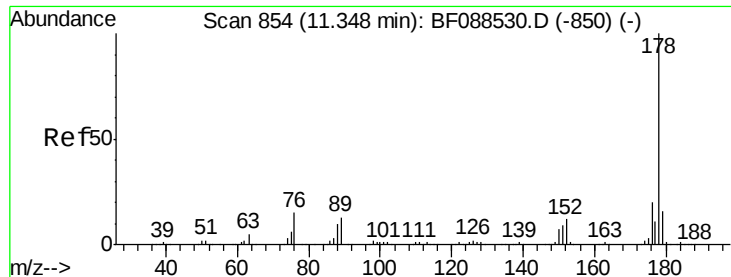
#66
4-Bromophenyl-phenylether
Concen: 3.79 ng
RT: 10.60 min Scan# 789
Delta R.T. -0.27 min
Lab File: BF088678.D
Acq: 4 Jul 2016 6:48

Tgt Ion:248 Resp: 11067
Ion Ratio Lower Upper
248 100
250 192.2 77.1 115.7#
141 343.0 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

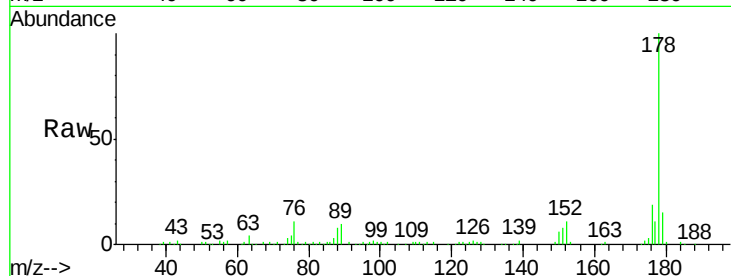




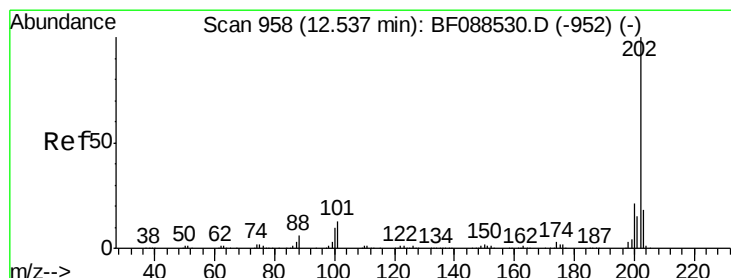
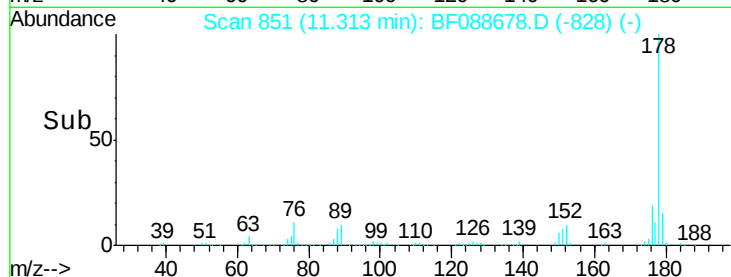
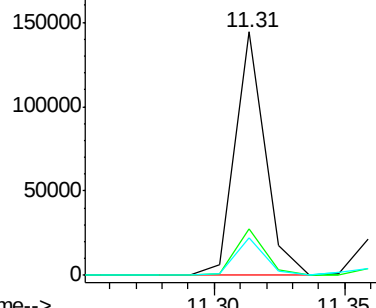
#70
Phenanthrene
Concen: 7.31 ng
RT: 11.31 min Scan# 851
Delta R.T. -0.03 min
Lab File: BF088678.D
Acq: 4 Jul 2016 6:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 115651
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.6
179 15.4 13.0 19.4

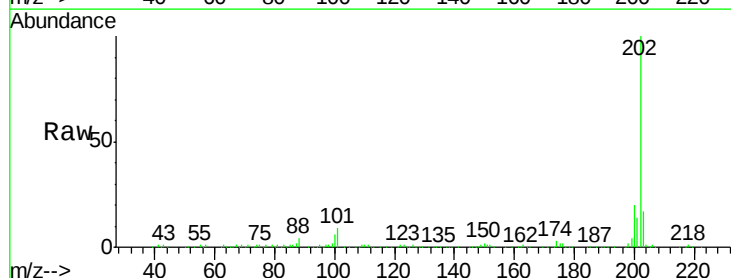


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

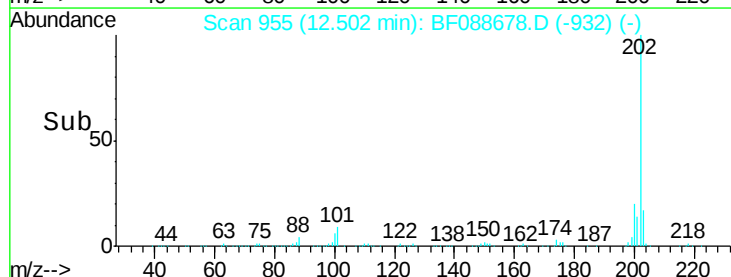
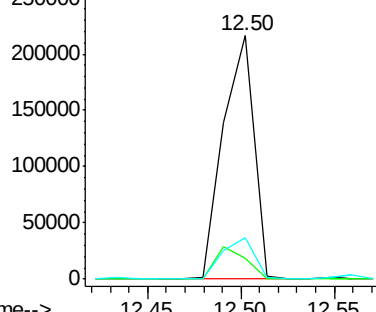


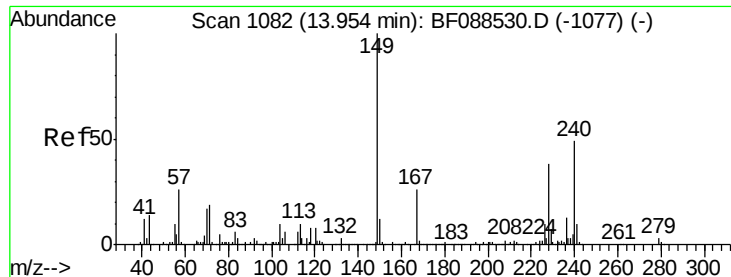
#74
Fluoranthene
Concen: 15.36 ng
RT: 12.50 min Scan# 955
Delta R.T. -0.03 min
Lab File: BF088678.D
Acq: 4 Jul 2016 6:48

Tgt Ion:202 Resp: 246278
Ion Ratio Lower Upper
202 100
101 8.8 0.0 33.1
203 17.0 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

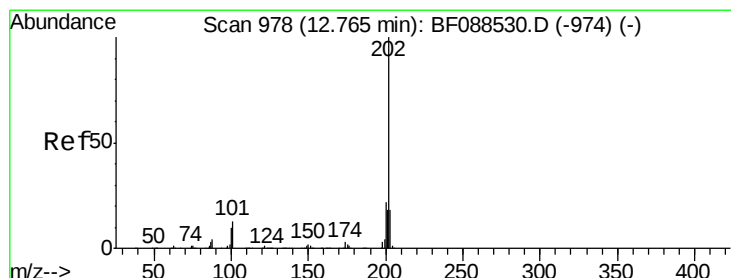
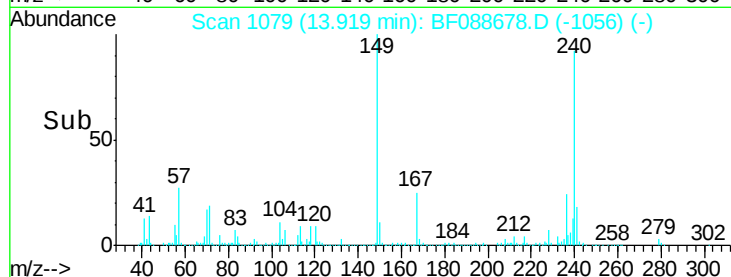
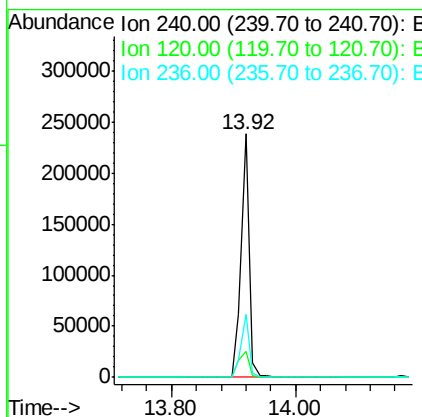
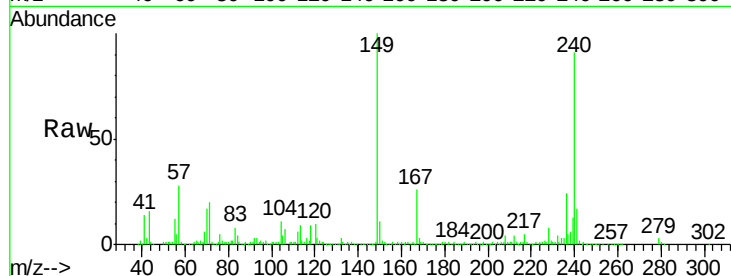




#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.92 min Scan# 1079
Delta R.T. -0.03 min
Lab File: BF088678.D
Acq: 4 Jul 2016 6:48

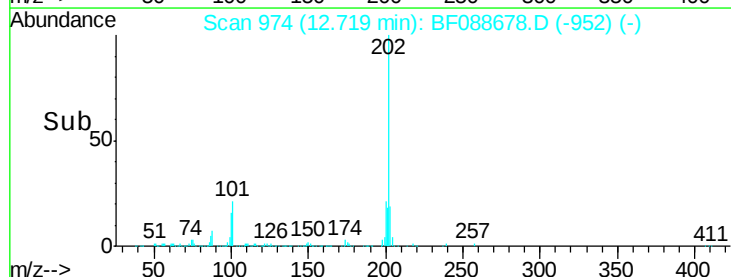
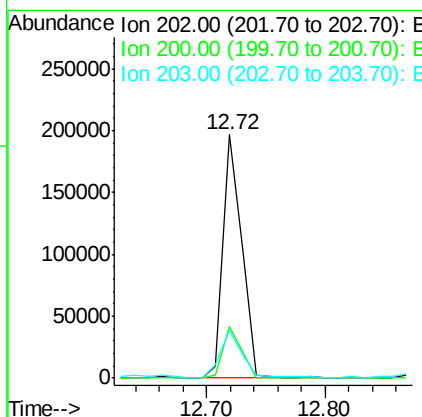
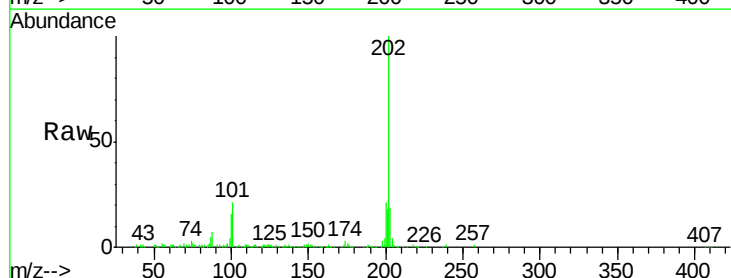
Instrument :
BNA_F
ClientSampleId :

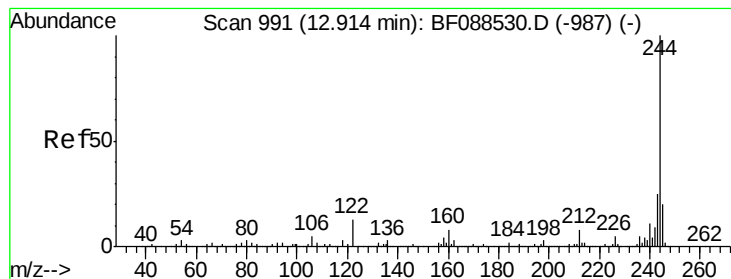
Tot Ion:240 Resp: 221347
Ion Ratio Lower Upper
240 100
120 10.5 6.8 10.2#
236 26.0 20.2 30.2



#77
Pyrene
Concen: 11.29 ng
RT: 12.72 min Scan# 974
Delta R.T. -0.05 min
Lab File: BF088678.D
Acq: 4 Jul 2016 6:48

Tgt Ion:202 Resp: 211946
Ion Ratio Lower Upper
202 100
200 21.2 17.4 26.2
203 19.4 14.5 21.7





#78

Terphenyl-d14

Concen: 62.92 ng

RT: 12.88 min Scan# 988

Delta R.T. -0.03 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Instrument :

BNA_F

ClientSampleId :

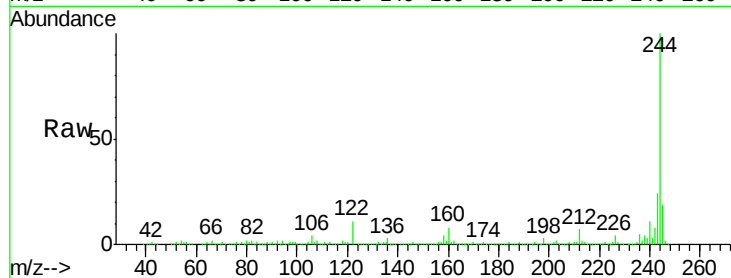
Tot Ion:244 Resp: 625272

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

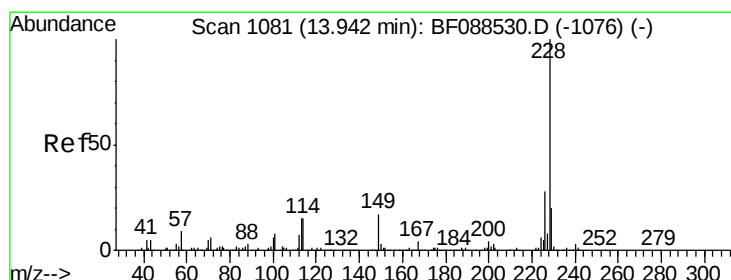
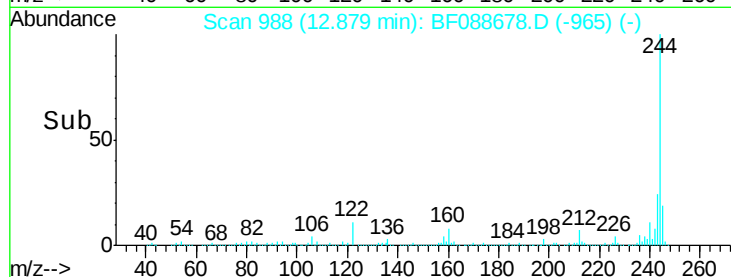
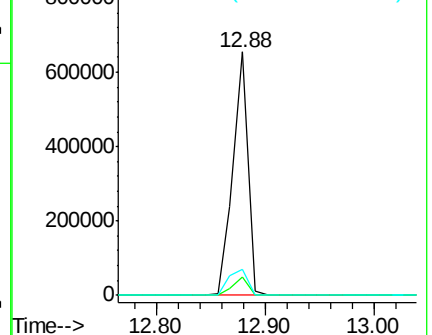
122 10.6 11.2 16.8#



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: 8.61 ng

RT: 13.91 min Scan# 1078

Delta R.T. -0.03 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

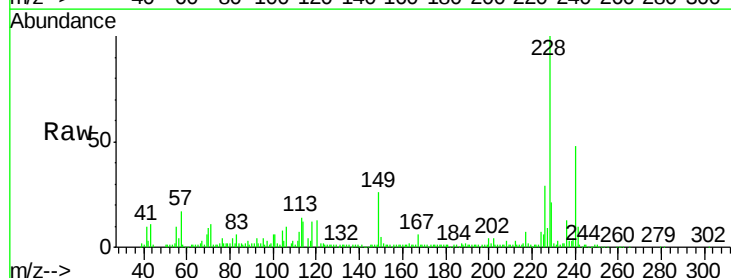
Tgt Ion:228 Resp: 122677

Ion Ratio Lower Upper

228 100

226 29.1 22.3 33.5

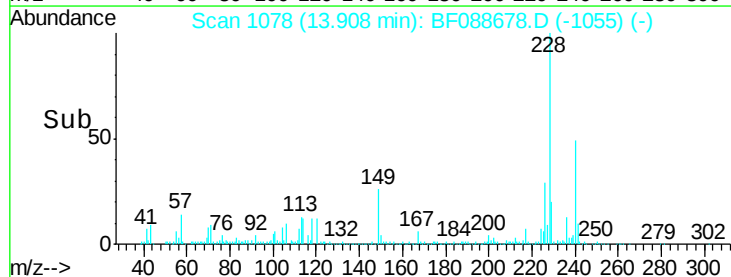
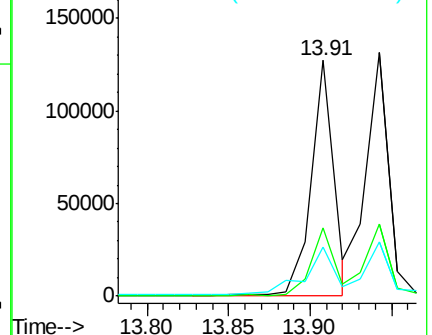
229 20.6 16.0 24.0

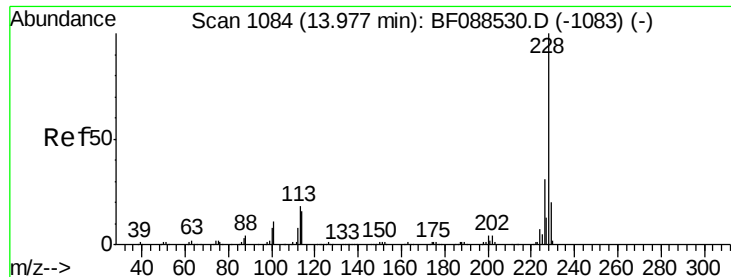


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

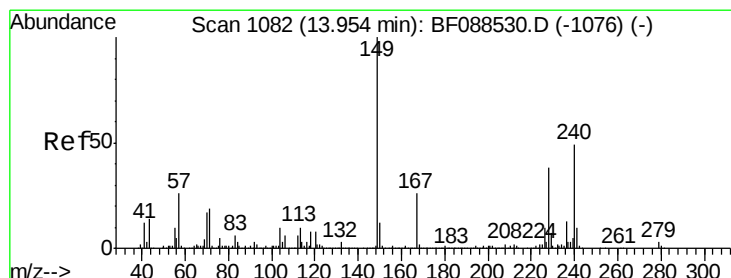
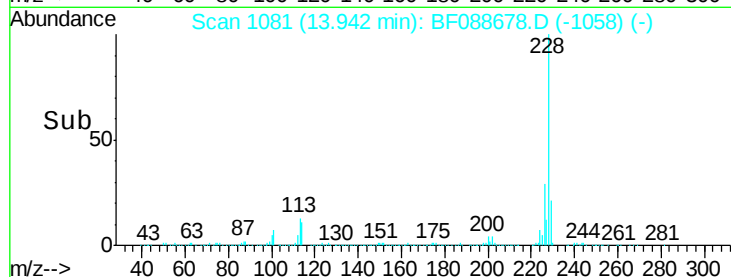
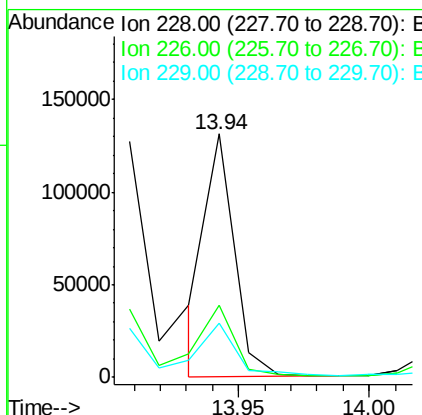
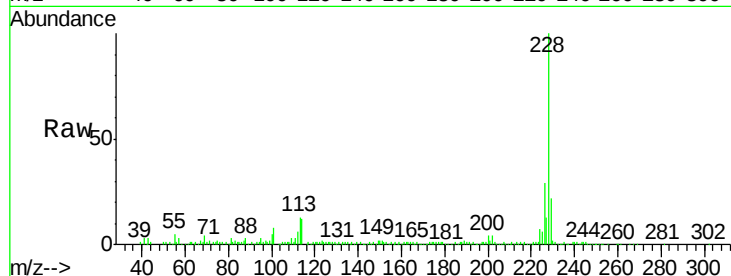




#82
 Chrysene
 Concen: 7.08 ng
 RT: 13.94 min Scan# 1081
 Delta R.T. -0.03 min
 Lab File: BF088678.D
 Acq: 4 Jul 2016 6:48

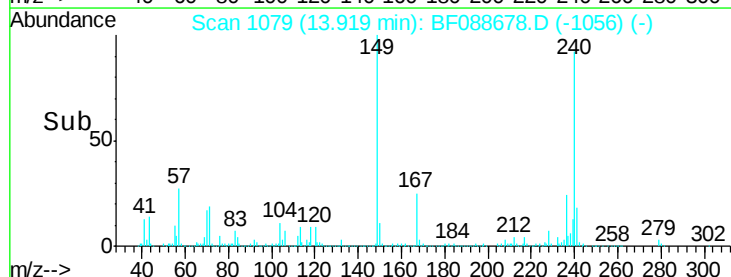
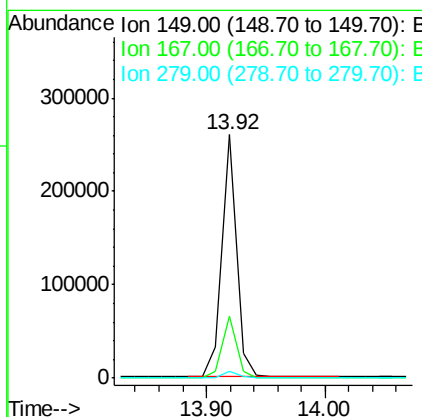
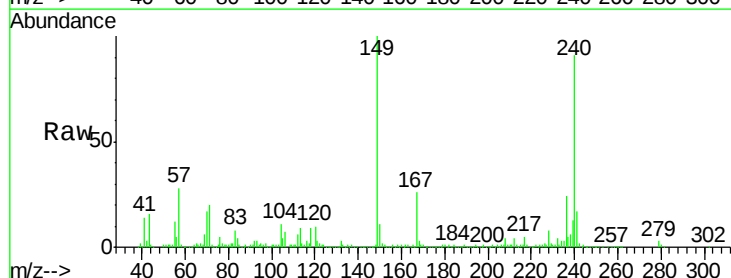
Instrument :
 BNA_F
 ClientSampleId :

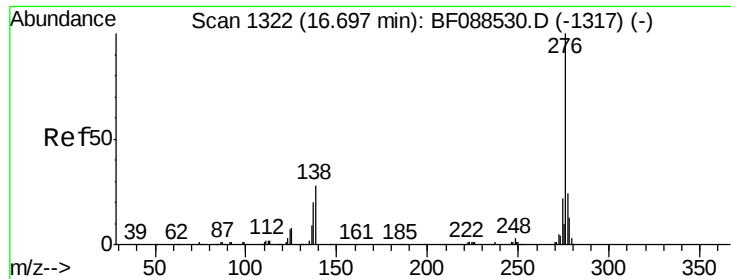
Tot Ion:228 Resp: 99873
 Ion Ratio Lower Upper
 228 100
 226 29.5 25.4 38.2
 229 22.1 16.3 24.5



#83
 Bis(2-ethylhexyl)phthalate
 Concen: 23.04 ng
 RT: 13.92 min Scan# 1079
 Delta R.T. -0.03 min
 Lab File: BF088678.D
 Acq: 4 Jul 2016 6:48

Tgt Ion:149 Resp: 220164
 Ion Ratio Lower Upper
 149 100
 167 25.5 20.5 30.7
 279 2.9 2.0 3.0

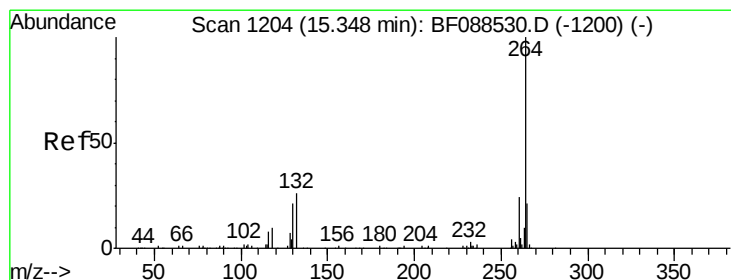
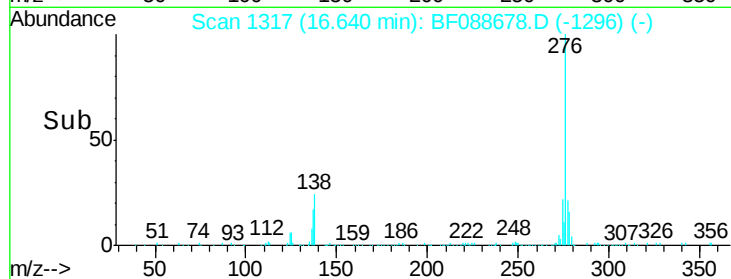
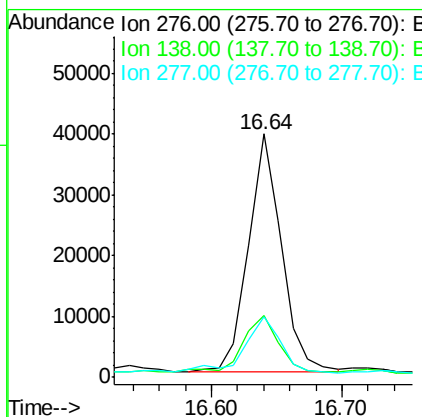
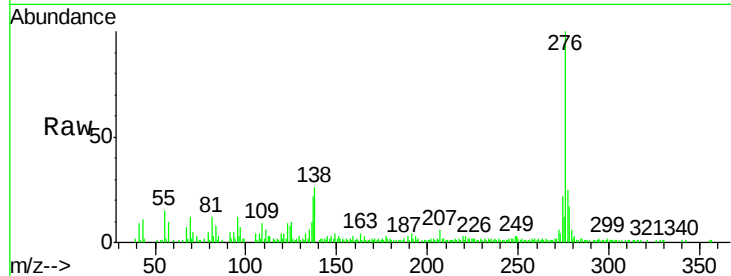




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.37 ng
 RT: 16.64 min Scan# 1317
 Delta R.T. -0.06 min
 Lab File: BF088678.D
 Acq: 4 Jul 2016 6:48

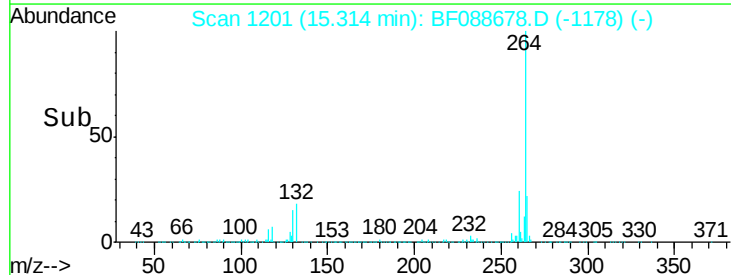
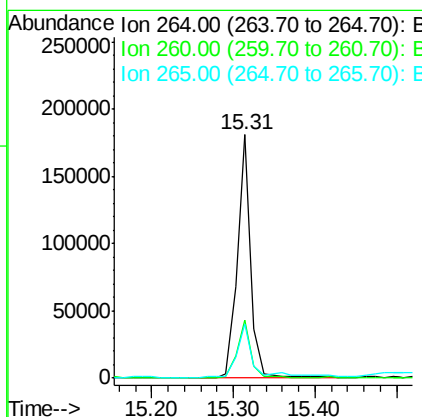
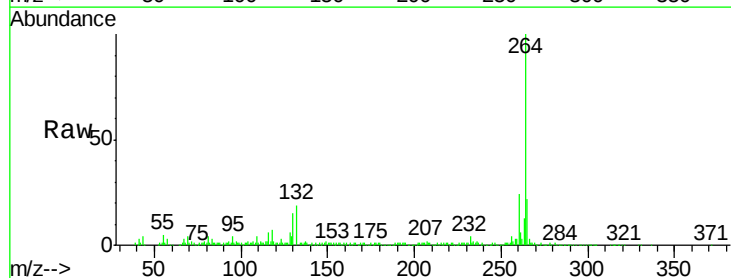
Instrument :
 BNA_F
 ClientSampled :

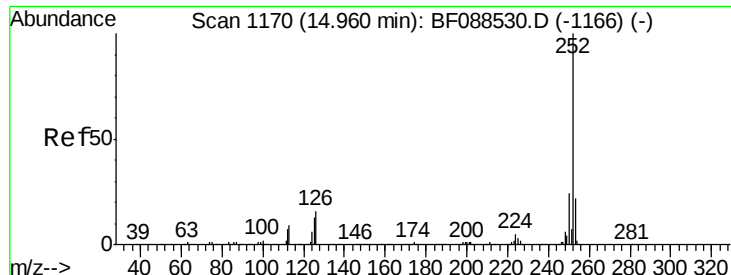
Tot Ion	Ratio	Lower	Upper
276	100		
138	27.4	0.0	0.0#
277	28.9	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.31 min Scan# 1201
 Delta R.T. -0.03 min
 Lab File: BF088678.D
 Acq: 4 Jul 2016 6:48

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	22.3	16.9	25.3





#87

Benzo(b)fluoranthene

Concen: 17.59 ng

RT: 14.93 min Scan# 1167

Delta R.T. -0.03 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Instrument :

BNA_F

ClientSampleId :

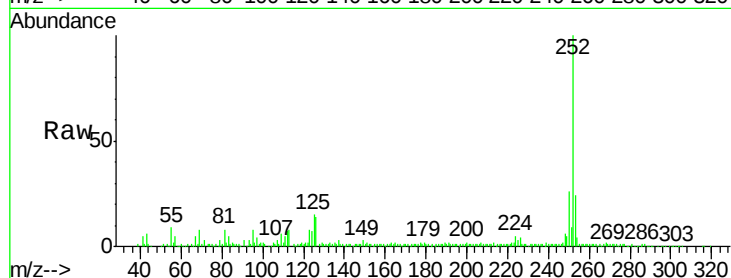
Tot Ion:252 Resp: 225824

Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.2

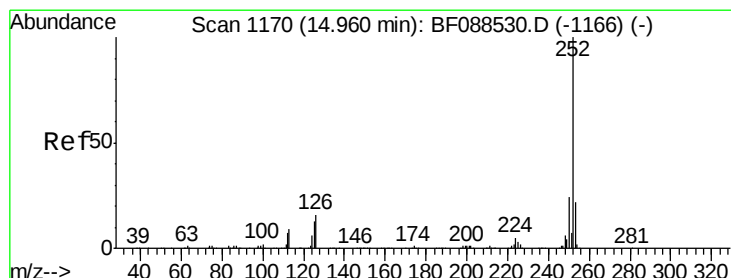
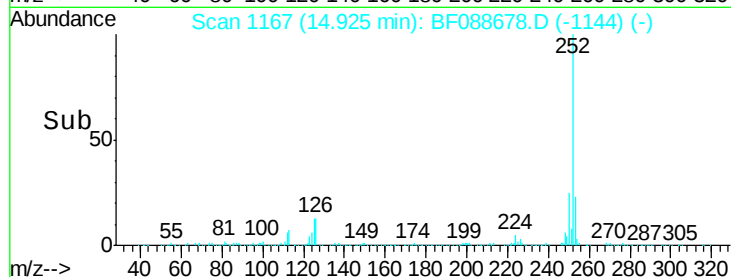
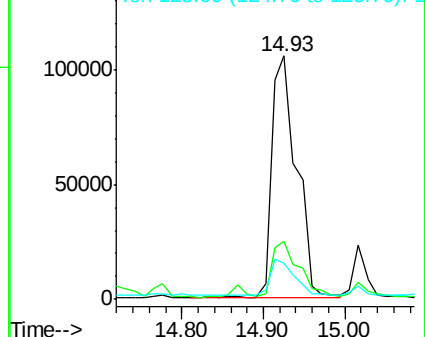
125 14.7 7.1 10.7#



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: 20.20 ng

RT: 14.93 min Scan# 1167

Delta R.T. -0.06 min

Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

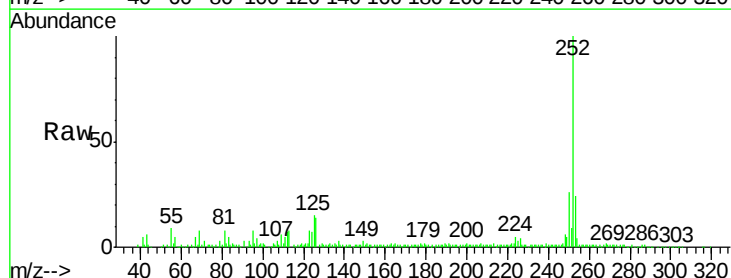
Tgt Ion:252 Resp: 225824

Ion Ratio Lower Upper

252 100

253 23.9 18.0 27.0

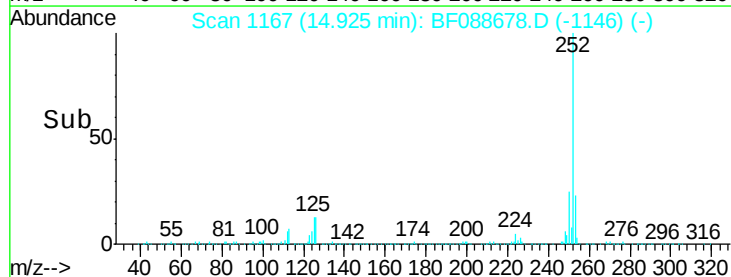
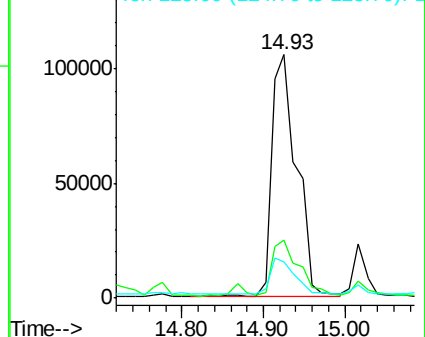
125 14.7 11.2 16.8

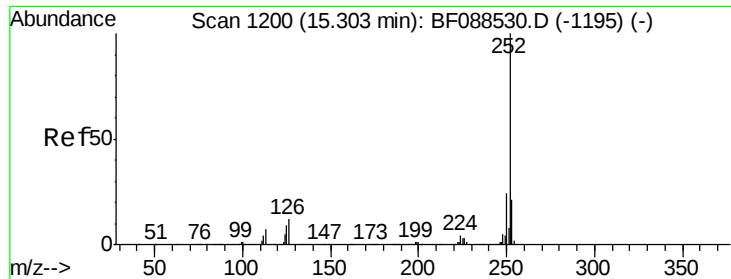


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

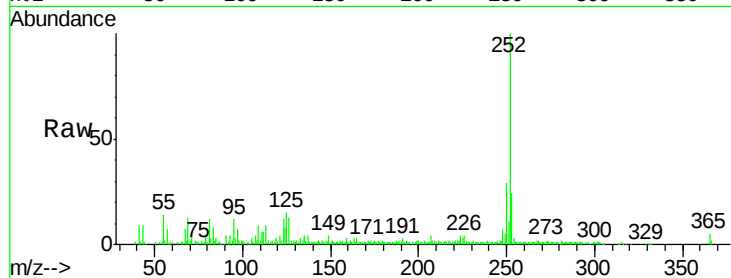




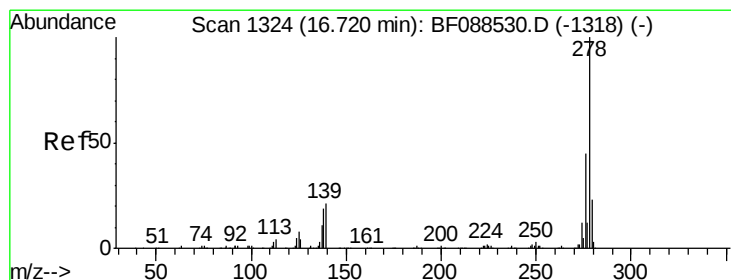
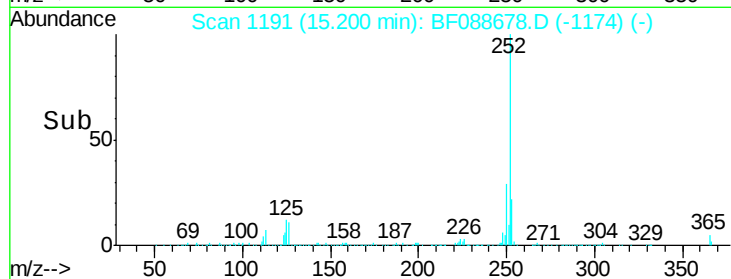
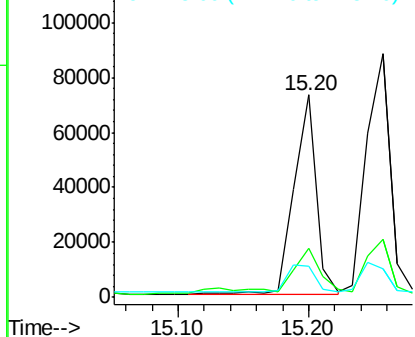
#89
Benzo(a)pyrene
Concen: 8.03 ng
RT: 15.20 min Scan# 1191
Delta R.T. -0.10 min
Lab File: BF088678.D
Acq: 4 Jul 2016 6:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 87298
Ion Ratio Lower Upper
252 100
253 24.3 17.9 26.9
125 15.4 12.5 18.7

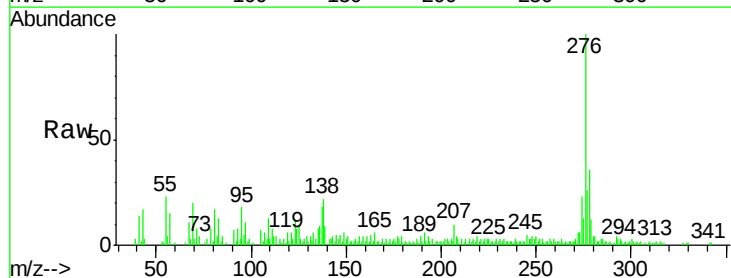


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

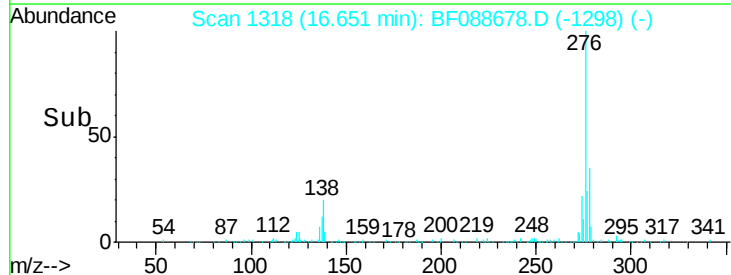
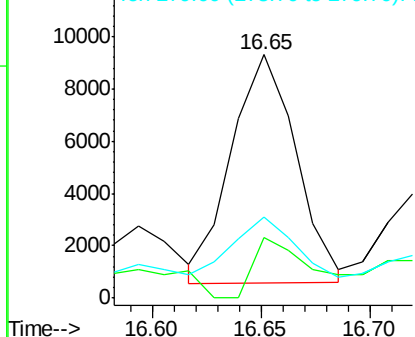


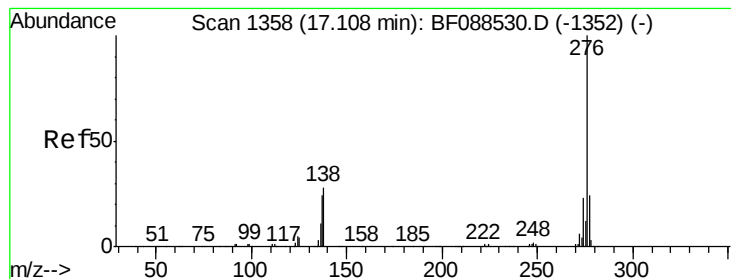
#90
Dibenzo(a,h)anthracene
Concen: 2.00 ng
RT: 16.65 min Scan# 1318
Delta R.T. -0.07 min
Lab File: BF088678.D
Acq: 4 Jul 2016 6:48

Tgt Ion:278 Resp: 18201
Ion Ratio Lower Upper
278 100
139 25.1 15.7 23.5#
279 33.1 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: 7.33 ng

RT: 17.04 min Scan# 1352

Delta R.T. -0.07 min

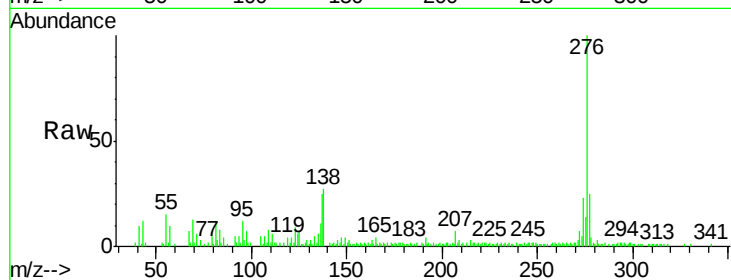
Lab File: BF088678.D

Acq: 4 Jul 2016 6:48

Instrument :

BNA_F

ClientSampleId :



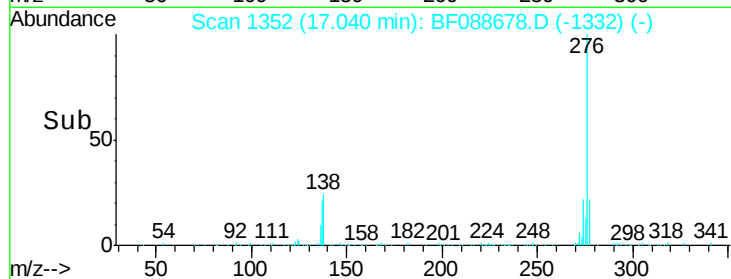
Tot Ion: 276 Resp: 68860

Ion Ratio Lower Upper

276 100

277 24.6 18.9 28.3

138 26.9 21.4 32.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

