

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070116\
 Data File : BF088578.D
 Acq On : 1 Jul 2016 16:48
 Operator : UM/SJ
 Sample : H3808-12 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 01 17:18:52 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	6.81	152	142092	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	521259	20.00	ng	-0.01
38) Acenaphthene-d10	9.84	164	225149	20.00	ng	-0.01
63) Phenanthrene-d10	11.32	188	397273	20.00	ng	0.00
75) Chrysene-d12	13.95	240	287606	20.00	ng	0.00
86) Perylene-d12	15.35	264	244377	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	430100	45.36	ng	-0.01
7) Phenol-d6	6.43	99	545497	44.53	ng	-0.01
23) Nitrobenzene-d5	7.37	82	375047	37.71	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	106621	51.00	ng	-0.01
44) 2-Fluorobiphenyl	9.16	172	546932	38.37	ng	-0.01
78) Terphenyl-d14	12.90	244	396193	30.68	ng	-0.01

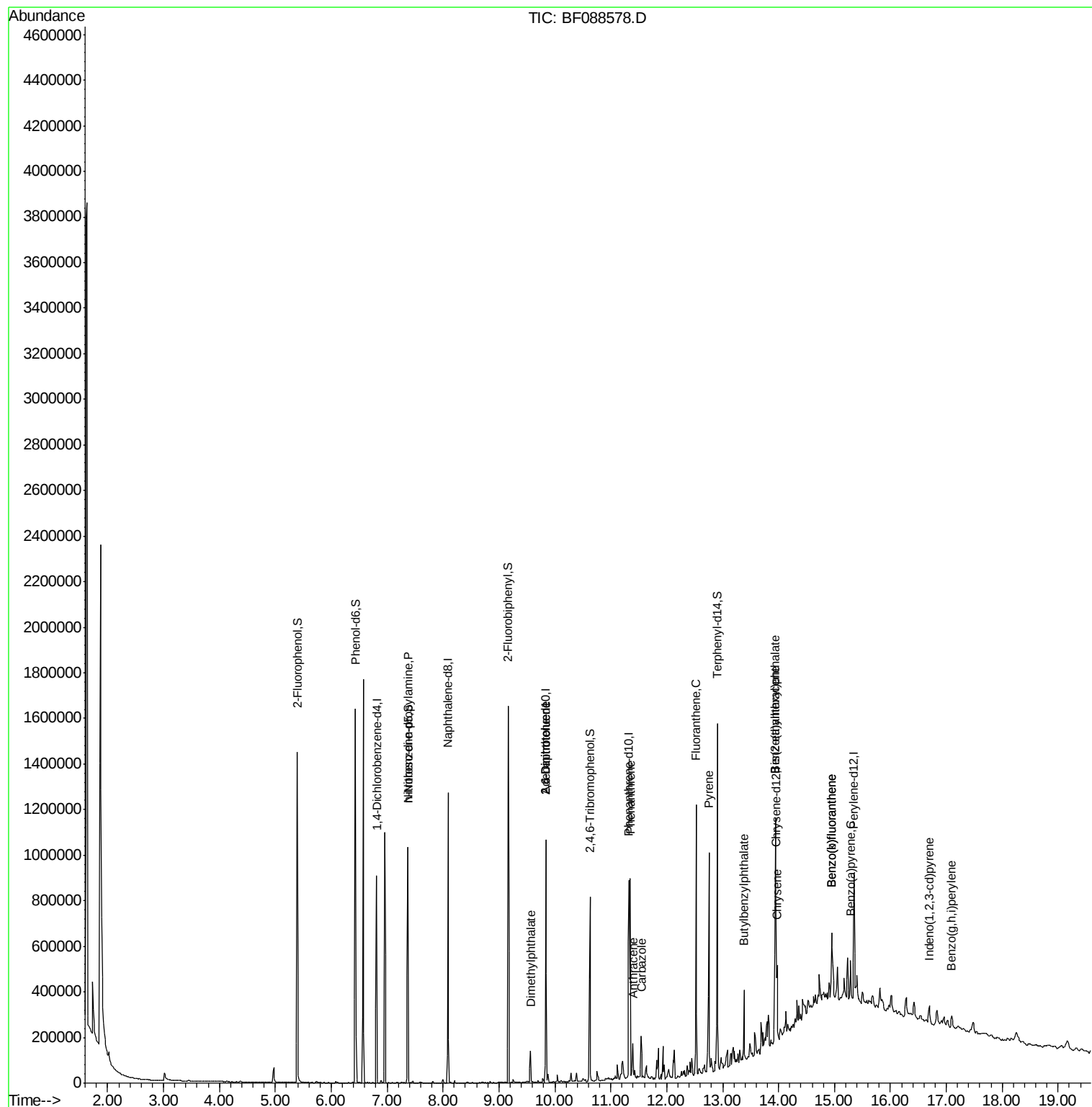
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.37	70	48745	5.92	ng	# 71
49) Dimethylphthalate	9.56	163	64705	4.03	ng	99
50) 2,6-Dinitrotoluene	9.84	165	28536	8.03	ng	# 40
56) 2,4-Dinitrotoluene	9.84	165	28531	6.14	ng	# 38
70) Phenanthrene	11.35	178	378810	17.44	ng	98
71) Anthracene	11.39	178	53927	2.50	ng	98
72) Carbazole	11.54	167	88570	4.36	ng	99
74) Fluoranthene	12.53	202	438946	19.94	ng	97
77) Pyrene	12.75	202	355342	14.57	ng	100
79) Butylbenzylphthalate	13.38	149	63634	5.85	ng	# 85
80) Benzo(a)anthracene	13.94	228	166766	9.00	ng	98
82) Chrysene	13.98	228	161131	8.79	ng	98
83) Bis(2-ethylhexyl)phthalate	13.94	149	50912	4.10	ng	97
85) Indeno(1,2,3-cd)pyrene	16.70	276	45331	3.22	ng	# 100
87) Benzo(b)fluoranthene	14.95	252	199254	13.00	ng	# 91
88) Benzo(k)fluoranthene	14.95	252	199254	14.93	ng	96
89) Benzo(a)pyrene	15.29	252	90052	6.94	ng	98
91) Benzo(g,h,i)perylene	17.10	276	41192	3.67	ng	97

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

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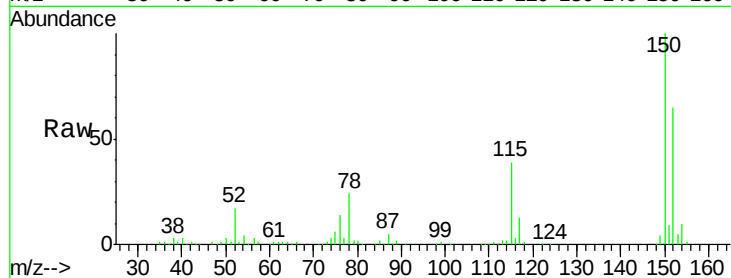


#1

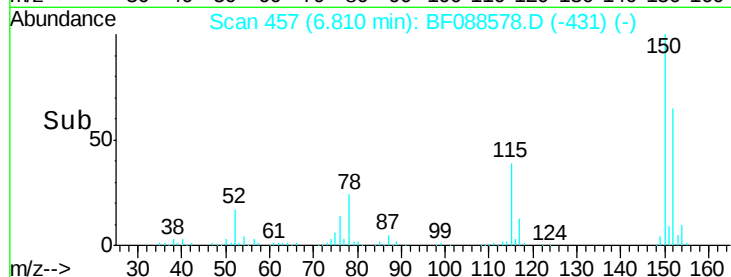
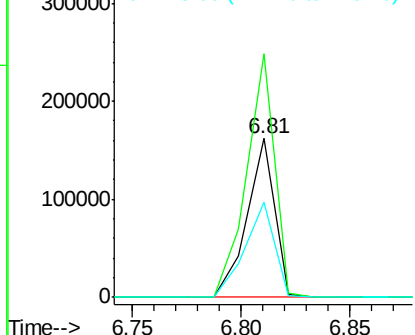
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.81 min Scan# 457
Delta R.T. -0.00 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 142092
Ion Ratio Lower Upper
152 100
150 153.2 123.8 185.6
115 59.6 39.6 59.4#



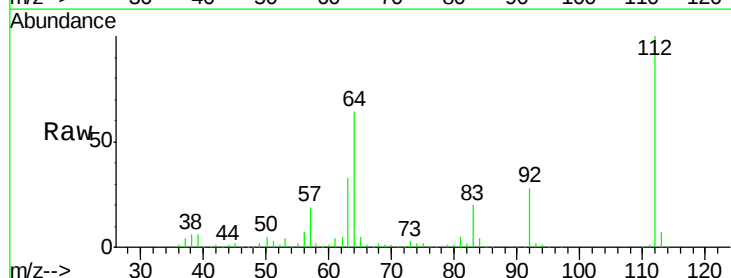
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



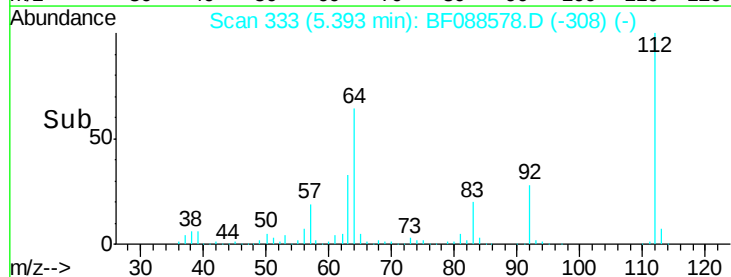
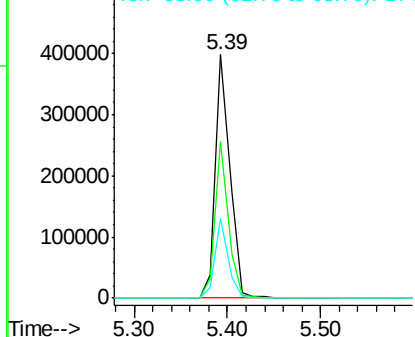
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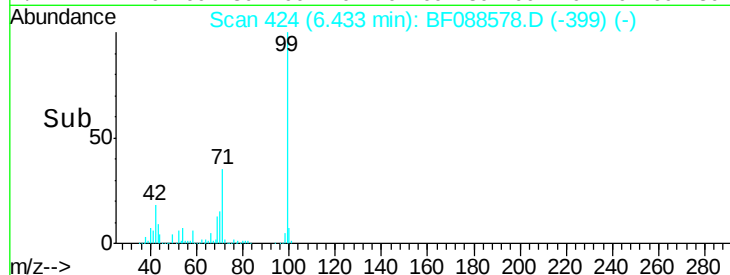
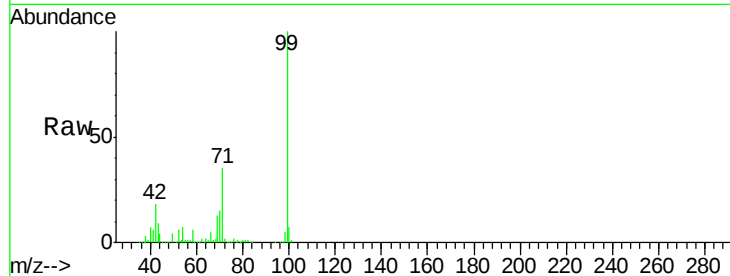
2-Fluorophenol
Concen: 45.36 ng
RT: 5.39 min Scan# 333
Delta R.T. -0.01 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Tgt Ion:112 Resp: 430100
Ion Ratio Lower Upper
112 100
64 64.2 42.2 63.2#
63 32.7 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: 44.53 ng

RT: 6.43 min Scan# 424

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

Instrument :

BNA_F

ClientSampleId :

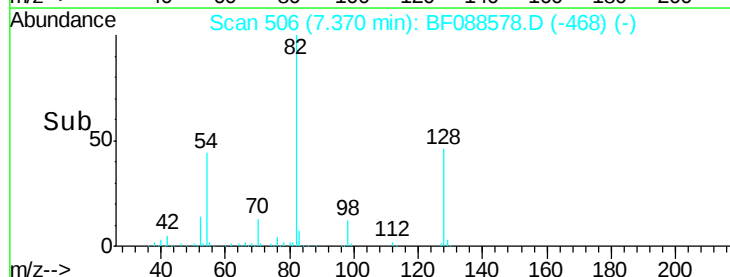
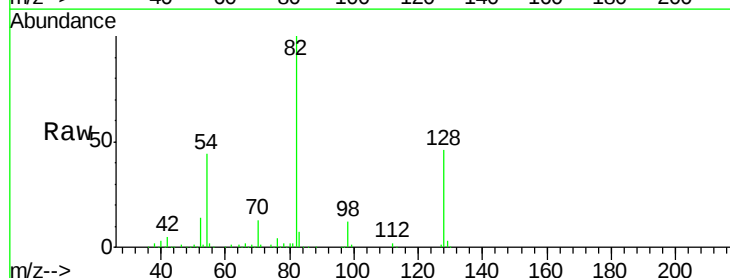
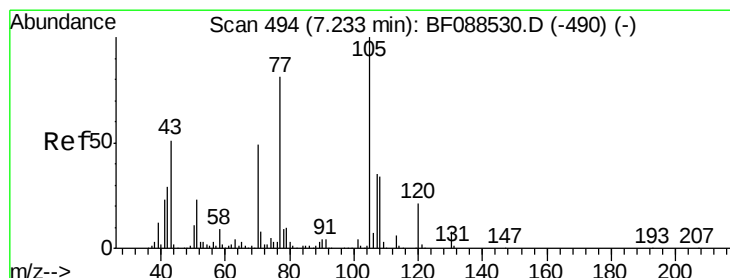
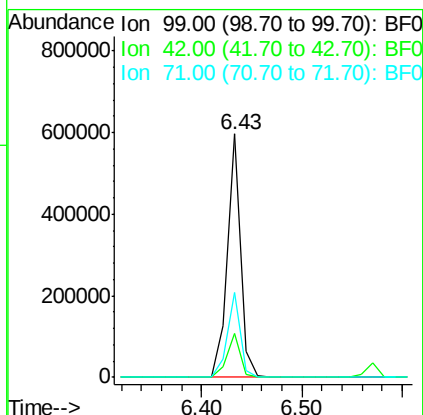
Tot Ion: 99 Resp: 545497

Ion Ratio Lower Upper

99 100

42 17.9 12.2 18.2

71 34.9 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 5.92 ng

RT: 7.37 min Scan# 506

Delta R.T. 0.14 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

Tgt Ion: 70 Resp: 48745

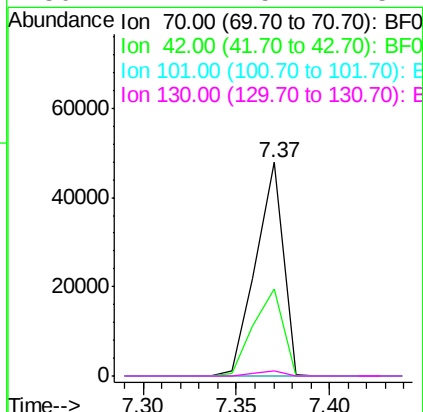
Ion Ratio Lower Upper

70 100

42 40.8 49.6 74.4#

101 0.0 7.1 10.7#

130 2.2 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 569

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 521259

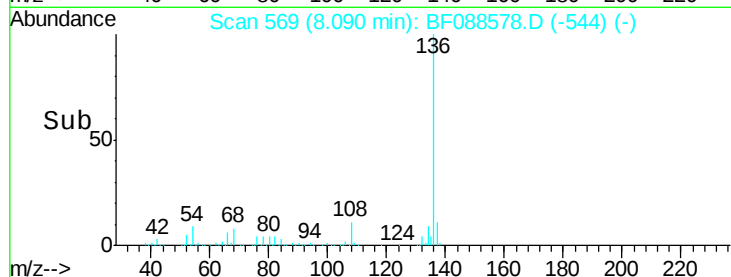
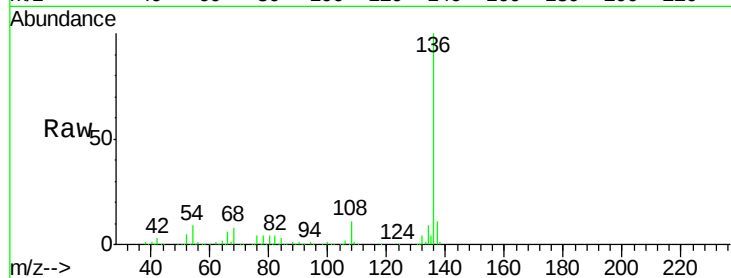
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 9.4 6.6 10.0

68 7.7 5.1 7.7#

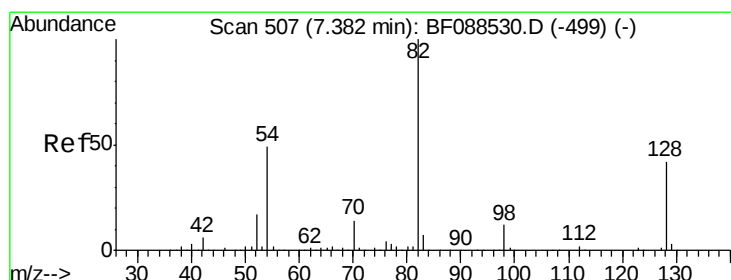
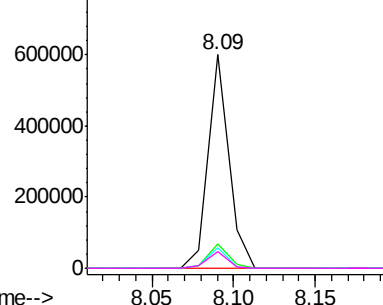


Abundance Ion 136.00 (135.70 to 136.70): E

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: 37.71 ng

RT: 7.37 min Scan# 506

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

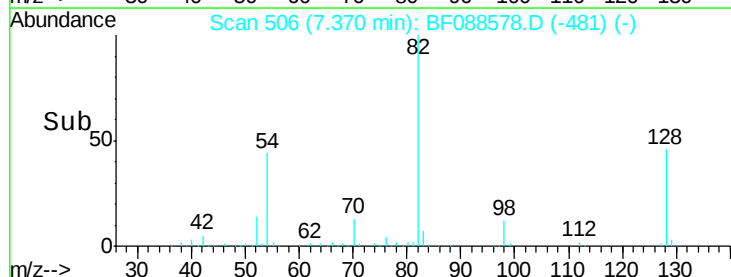
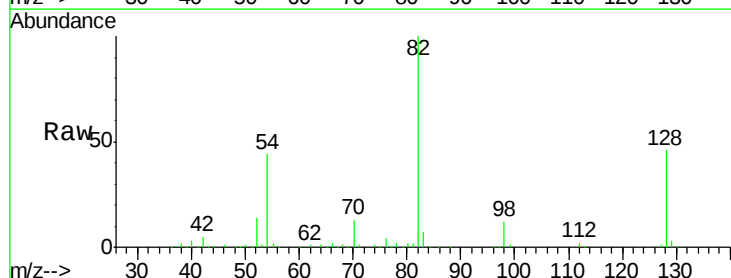
Tgt Ion: 82 Resp: 375047

Ion Ratio Lower Upper

82 100

128 46.0 35.9 53.9

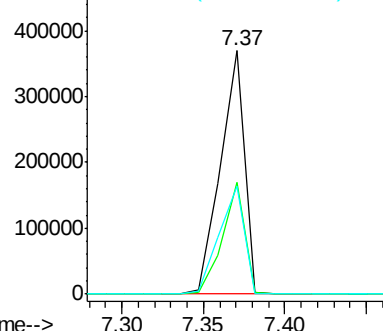
54 44.2 40.9 61.3

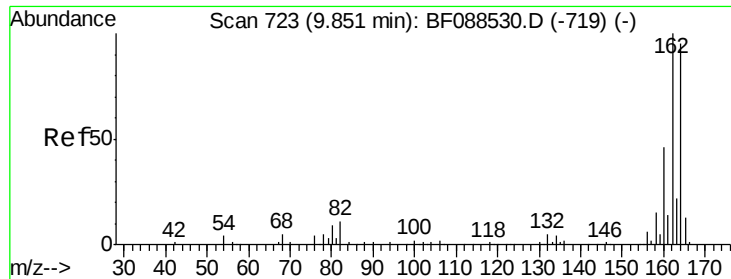


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

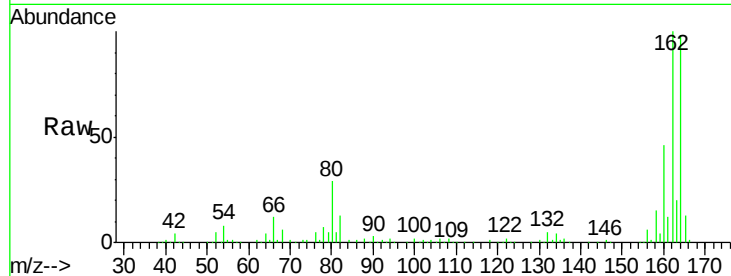




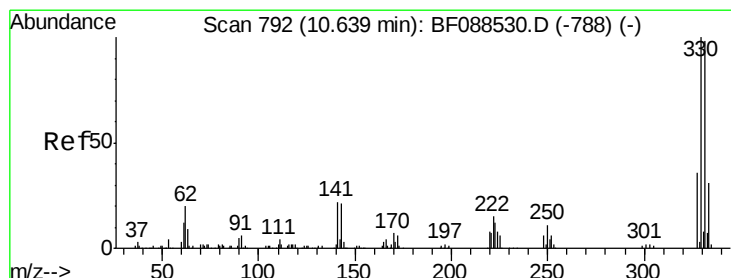
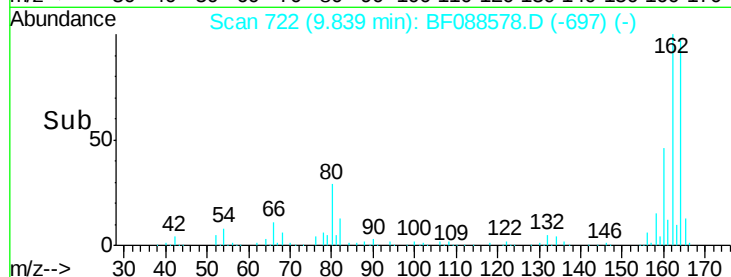
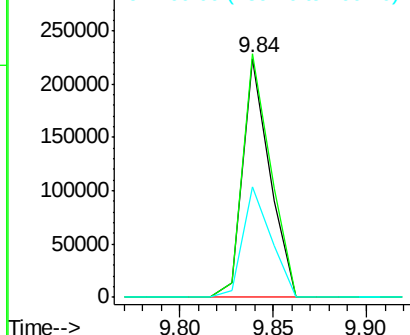
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.84 min Scan# 722
 Delta R.T. -0.01 min
 Lab File: BF088578.D
 Acq: 1 Jul 2016 16:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 225149
 Ion Ratio Lower Upper
 164 100
 162 102.0 85.4 128.2
 160 46.5 39.5 59.3

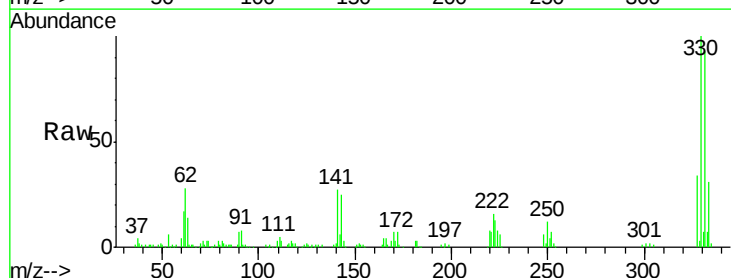


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

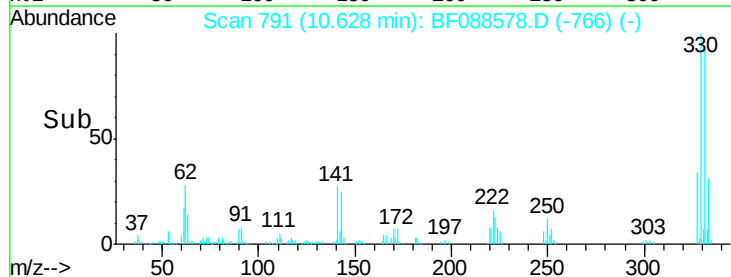
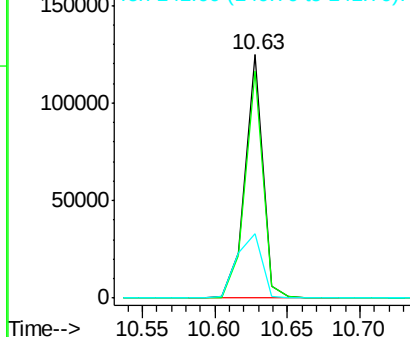


#41
 2,4,6-Tribromophenol
 Concen: 51.00 ng
 RT: 10.63 min Scan# 791
 Delta R.T. -0.01 min
 Lab File: BF088578.D
 Acq: 1 Jul 2016 16:48

Tgt Ion:330 Resp: 106621
 Ion Ratio Lower Upper
 330 100
 332 94.0 0.0 0.0#
 141 37.9 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

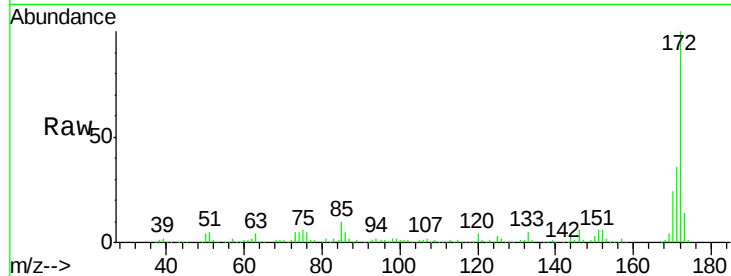




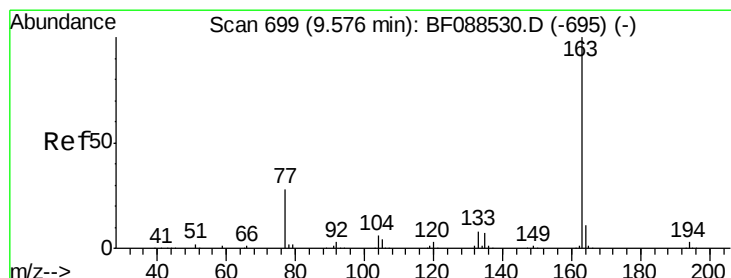
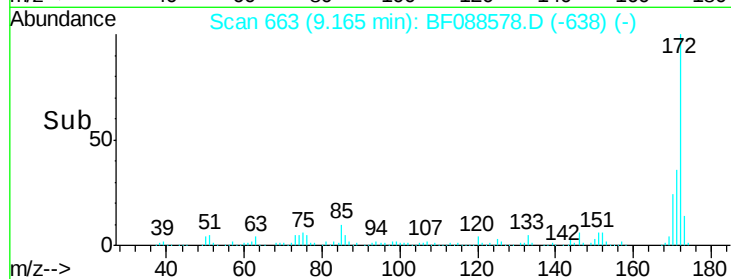
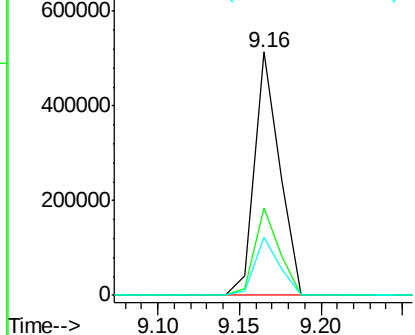
#44
2-Fluorobiphenyl
Concen: 38.37 ng
RT: 9.16 min Scan# 663
Delta R.T. -0.01 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 546932
Ion Ratio Lower Upper
172 100
171 35.8 28.6 43.0
170 23.9 19.2 28.8

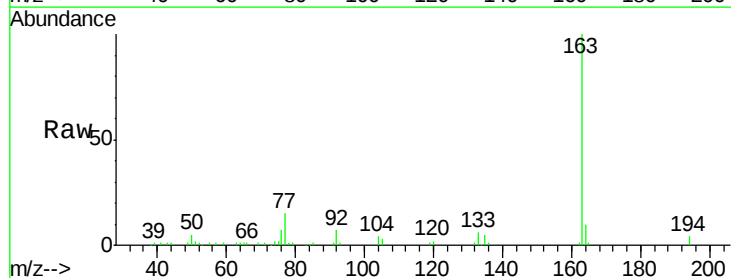


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

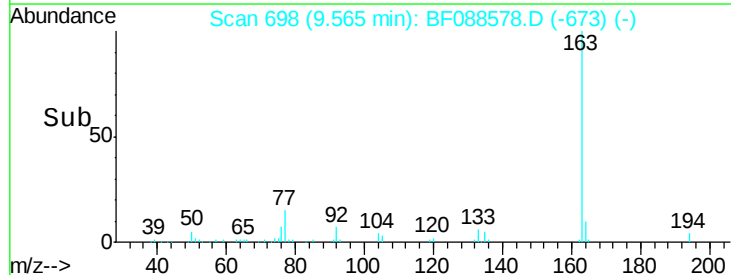
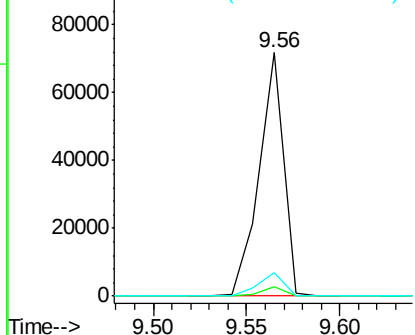


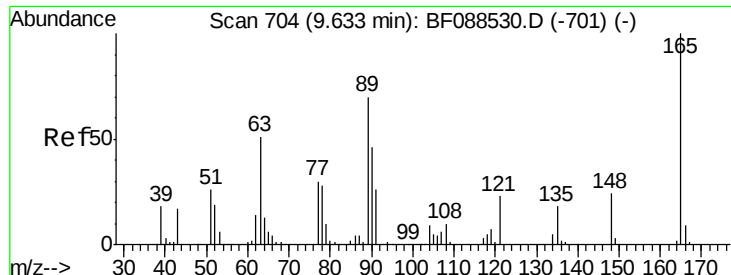
#49
Dimethylphthalate
Concen: 4.03 ng
RT: 9.56 min Scan# 698
Delta R.T. -0.01 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Tgt Ion:163 Resp: 64705
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

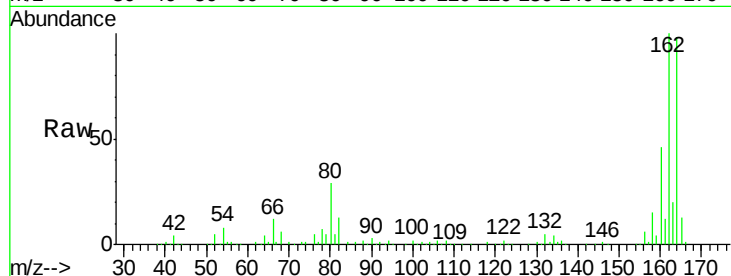




#50
 2,6-Dinitrotoluene
 Concen: 8.03 ng
 RT: 9.84 min Scan# 722
 Delta R.T. 0.21 min
 Lab File: BF088578.D
 Acq: 1 Jul 2016 16:48

Instrument :
 BNA_F
 ClientSampleId :

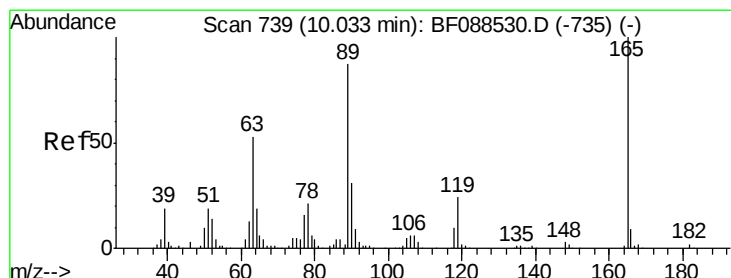
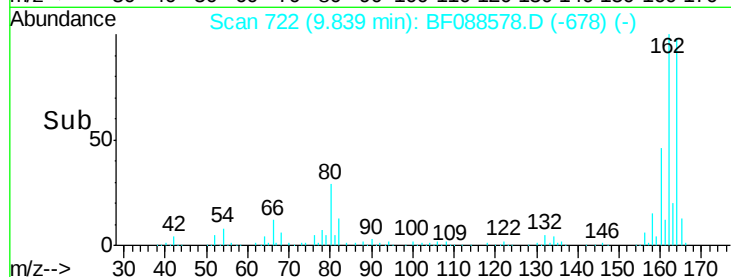
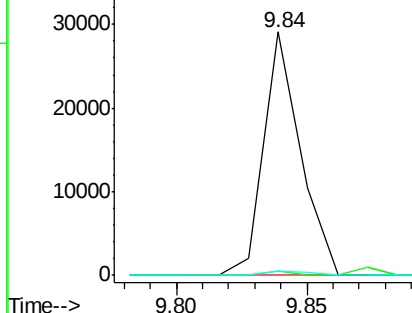
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	28.1	42.1#
89	1.9	32.2	48.2#



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



#56
 2,4-Dinitrotoluene
 Concen: 6.14 ng
 RT: 9.84 min Scan# 722
 Delta R.T. -0.19 min
 Lab File: BF088578.D
 Acq: 1 Jul 2016 16:48

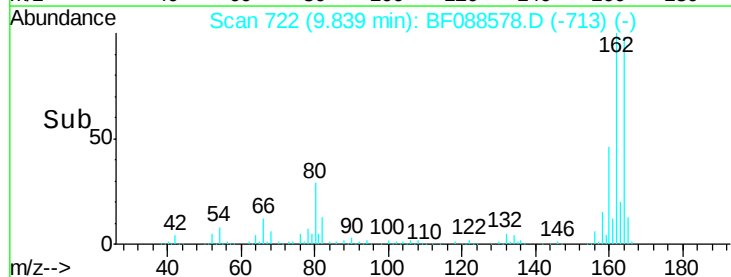
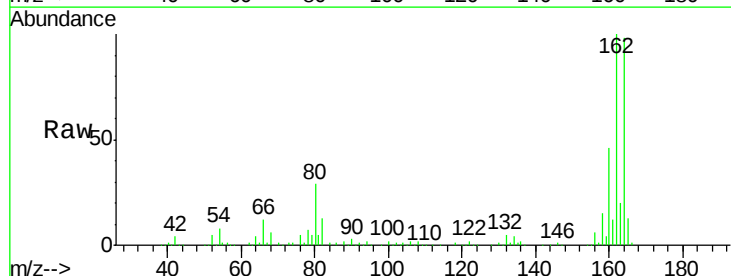
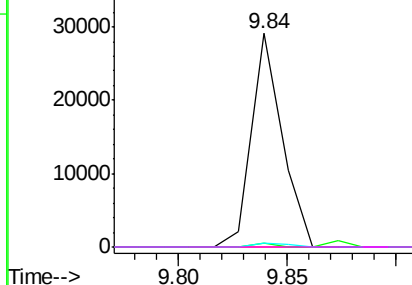
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.8	22.0	33.0#
89	1.9	41.1	61.7#
182	0.0	2.0	3.0#

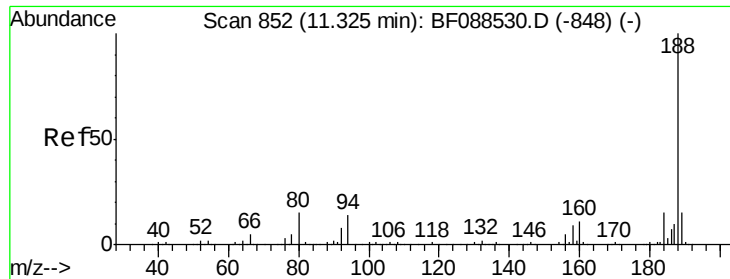
Abundance Ion 165.00 (164.70 to 165.70): E

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

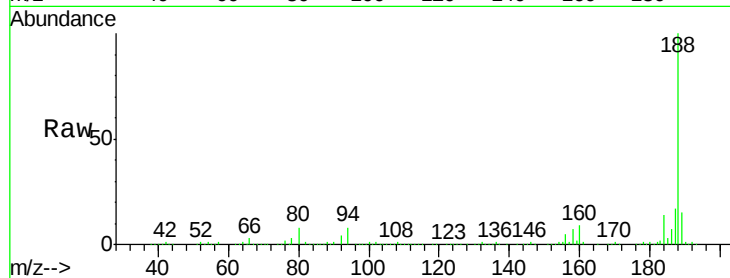




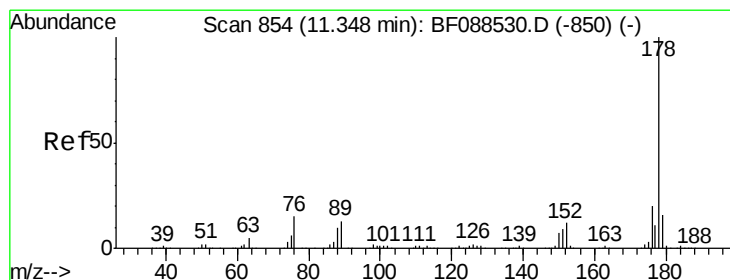
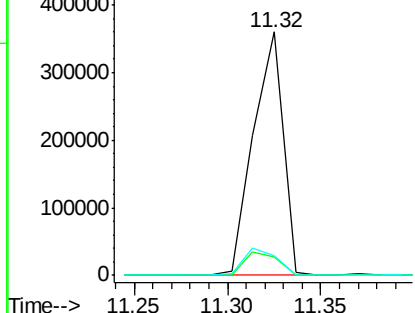
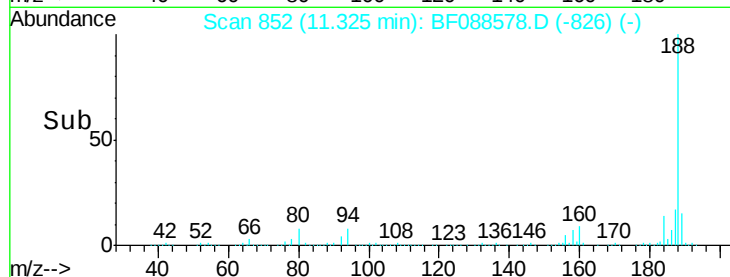
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.32 min Scan# 852
Delta R.T. -0.00 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 397273
Ion Ratio Lower Upper
188 100
94 7.6 9.0 13.6#
80 8.1 10.0 15.0#

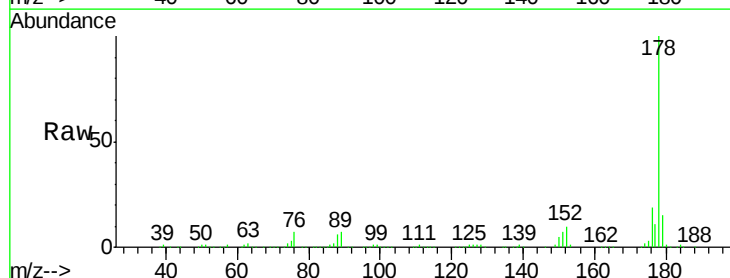


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

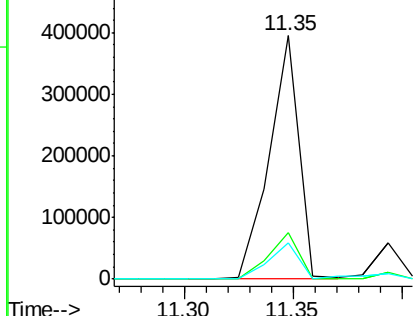
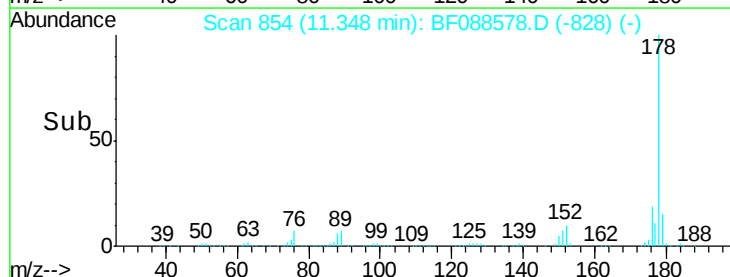


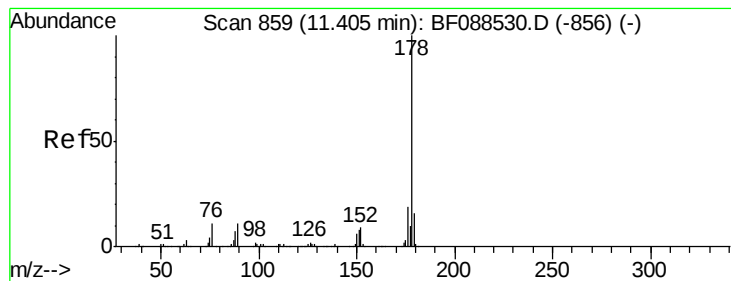
#70
Phenanthrene
Concen: 17.44 ng
RT: 11.35 min Scan# 854
Delta R.T. -0.00 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Tgt Ion:178 Resp: 378810
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.6
179 15.0 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: 2.50 ng

RT: 11.39 min Scan# 858

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

Instrument :

BNA_F

ClientSampleId :

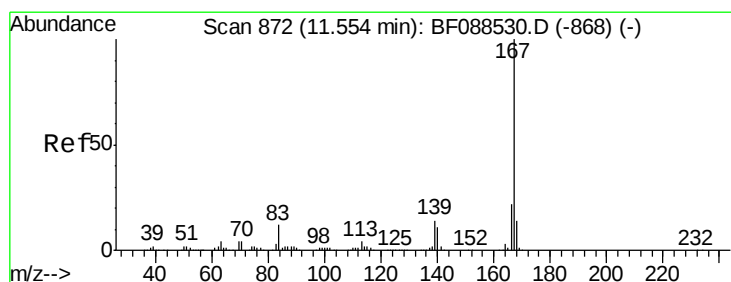
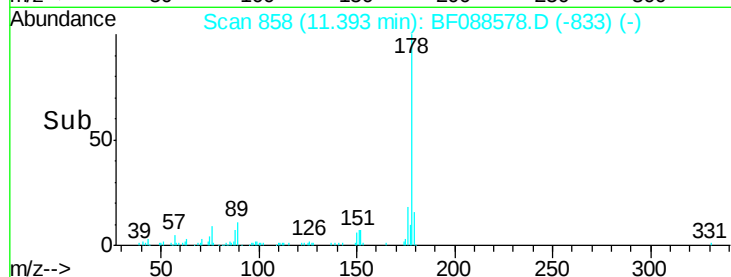
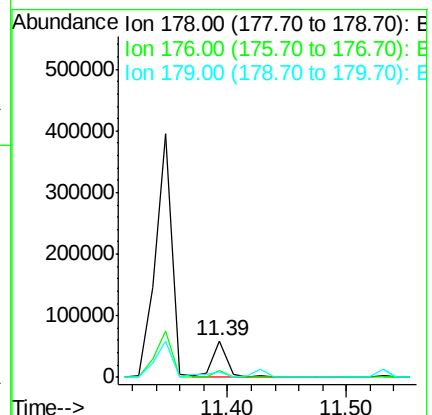
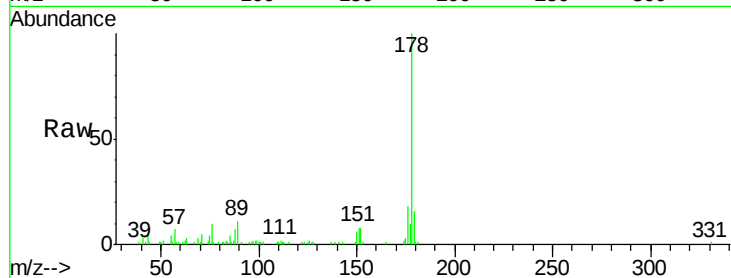
Tot Ion:178 Resp: 53927

Ion Ratio Lower Upper

178 100

176 18.2 15.6 23.4

179 15.6 12.8 19.2



#72

Carbazole

Concen: 4.36 ng

RT: 11.54 min Scan# 871

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

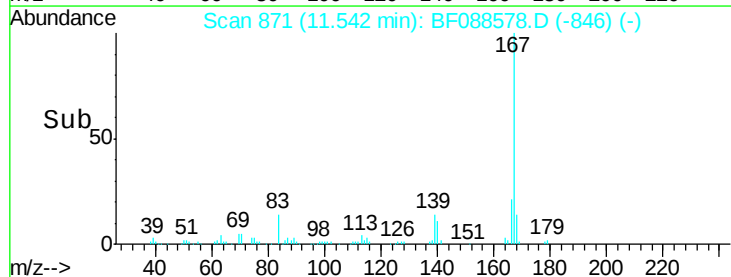
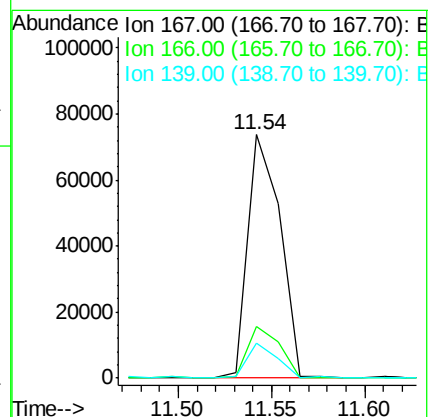
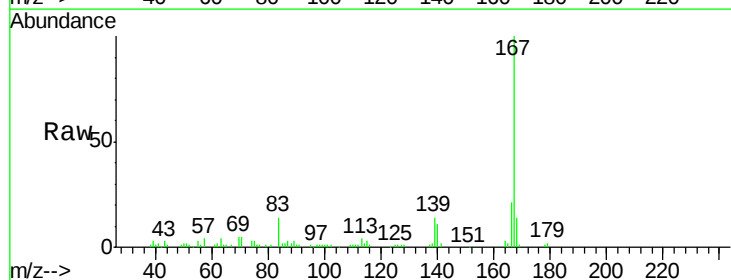
Tgt Ion:167 Resp: 88570

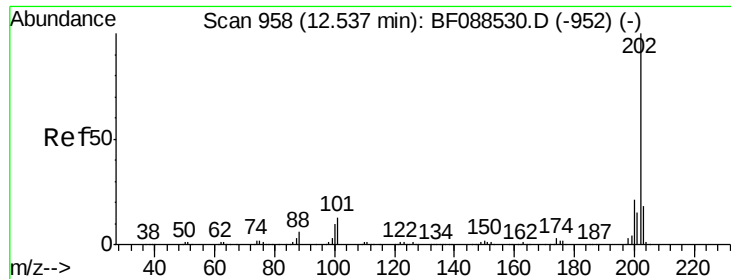
Ion Ratio Lower Upper

167 100

166 21.4 17.8 26.6

139 14.4 11.2 16.8





#74

Fluoranthene

Concen: 19.94 ng

RT: 12.53 min Scan# 957

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

Instrument :

BNA_F

ClientSampleId :

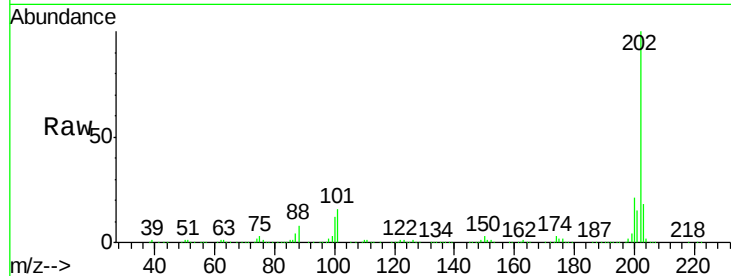
Tot Ion:202 Resp: 438946

Ion Ratio Lower Upper

202 100

101 16.3 0.0 33.1

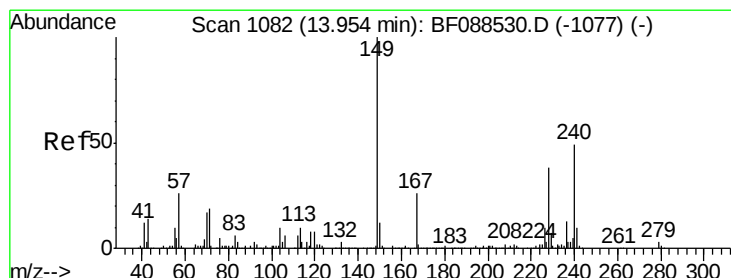
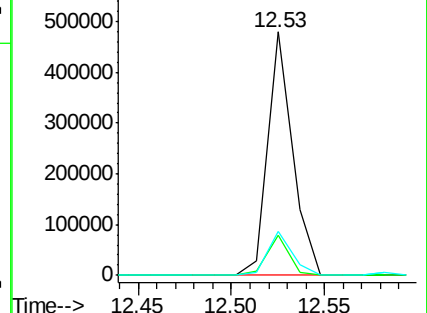
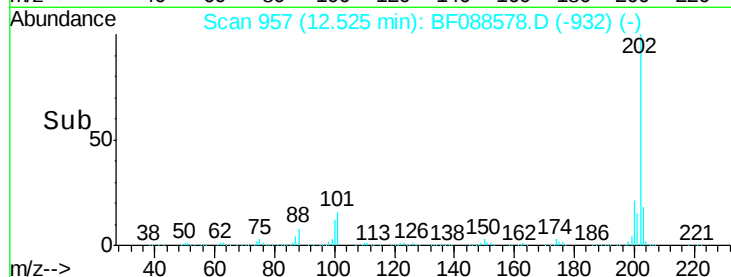
203 18.0 0.0 38.1



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: 13.95 min Scan# 1082

Delta R.T. -0.00 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

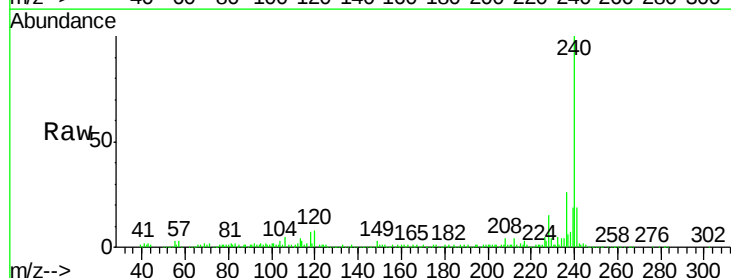
Tgt Ion:240 Resp: 287606

Ion Ratio Lower Upper

240 100

120 7.5 6.8 10.2

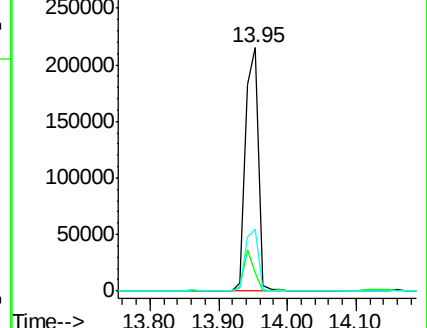
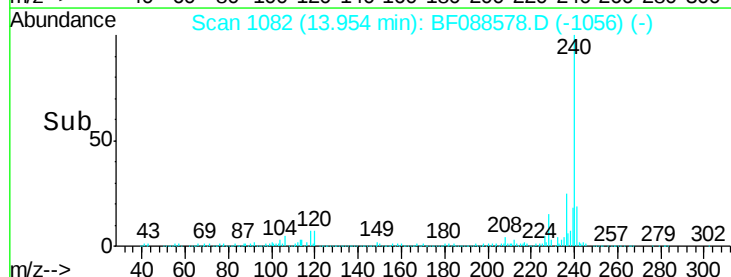
236 25.6 20.2 30.2

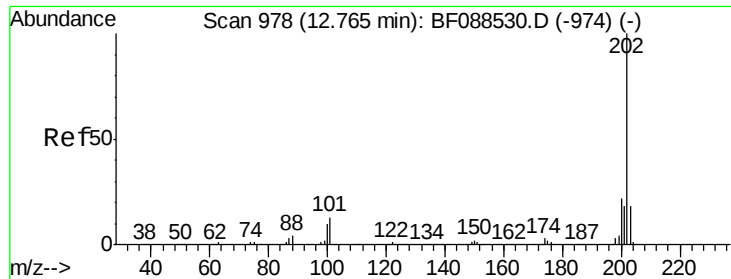


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 14.57 ng

RT: 12.75 min Scan# 977

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

Instrument :

BNA_F

ClientSampled :

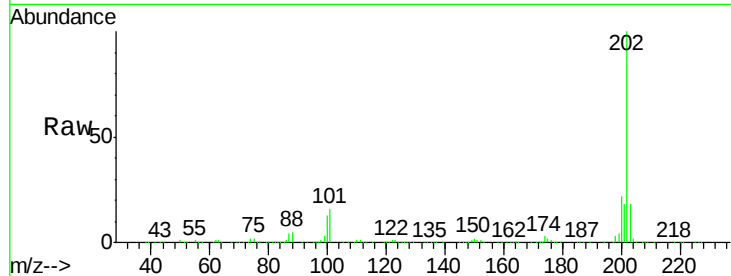
Tot Ion:202 Resp: 355342

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

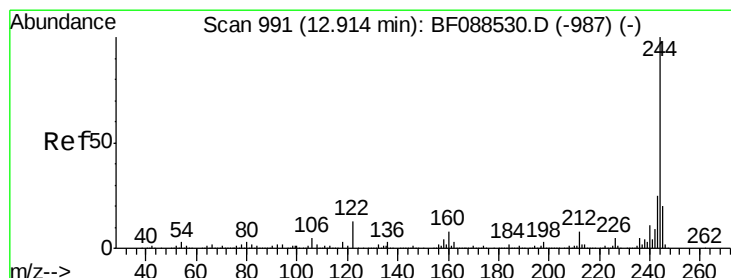
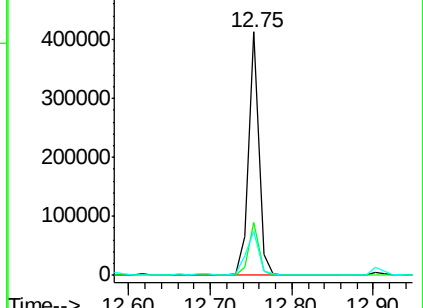
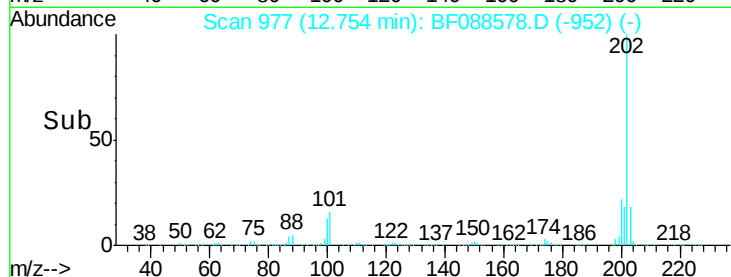
203 17.9 14.5 21.7



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: 30.68 ng

RT: 12.90 min Scan# 990

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

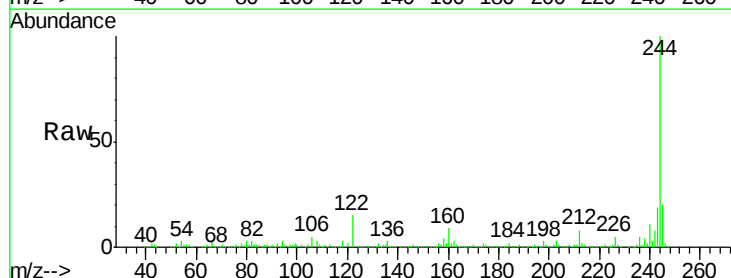
Tgt Ion:244 Resp: 396193

Ion Ratio Lower Upper

244 100

212 7.7 6.0 9.0

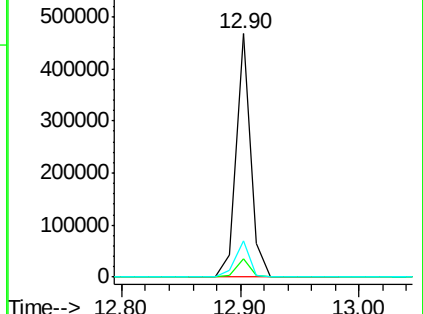
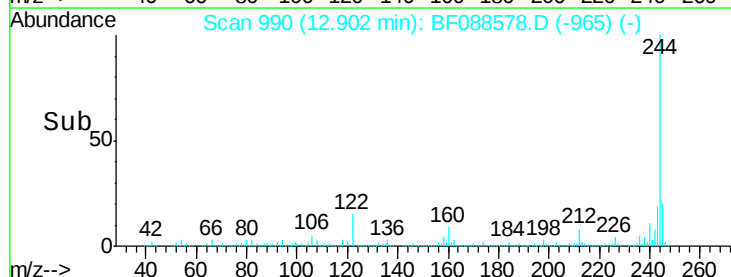
122 15.1 11.2 16.8

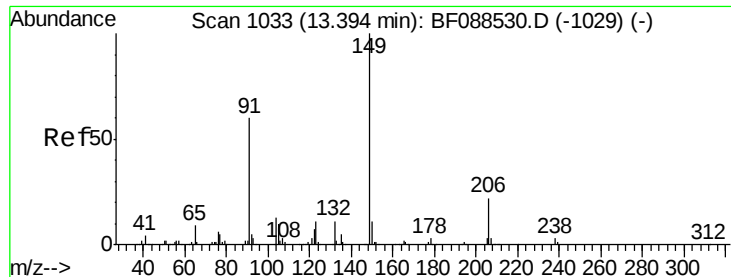


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#79

Butylbenzylphthalate

Concen: 5.85 ng

RT: 13.38 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

Instrument :

BNA_F

ClientSampleId :

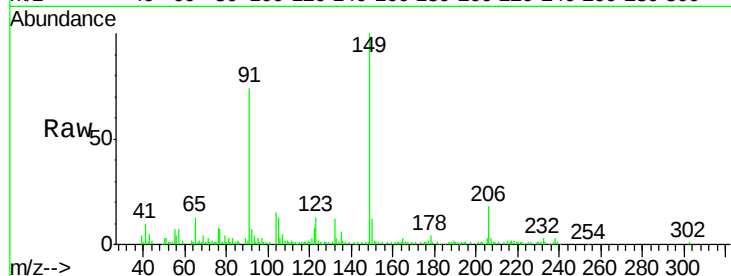
Tot Ion:149 Resp: 63634

Ion Ratio Lower Upper

149 100

91 74.0 48.0 72.0#

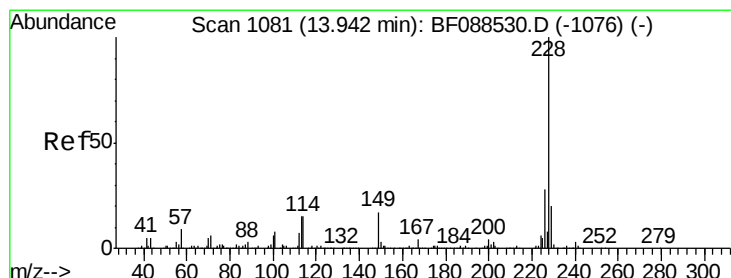
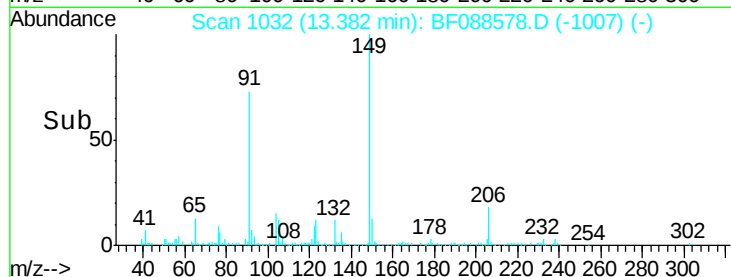
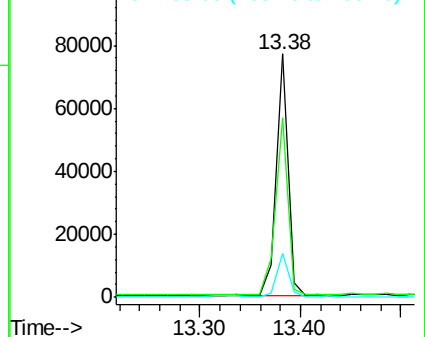
206 18.1 16.0 24.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E



#80

Benzo(a)anthracene

Concen: 9.00 ng

RT: 13.94 min Scan# 1081

Delta R.T. -0.00 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

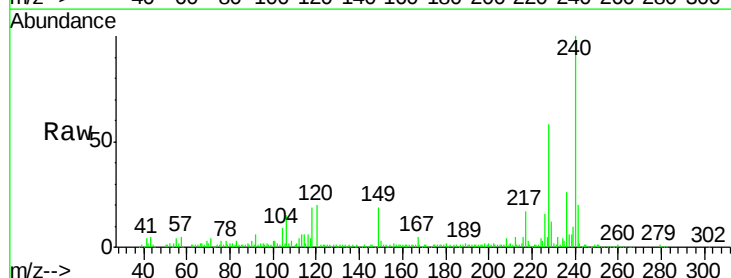
Tgt Ion:228 Resp: 166766

Ion Ratio Lower Upper

228 100

226 27.6 22.3 33.5

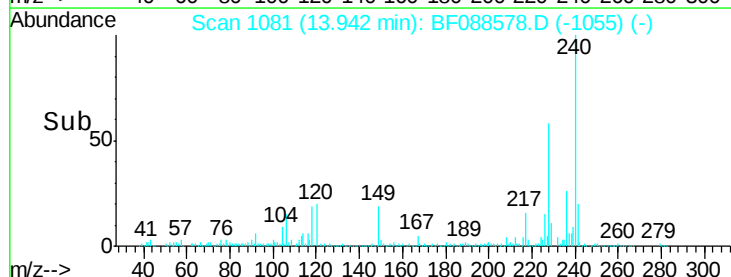
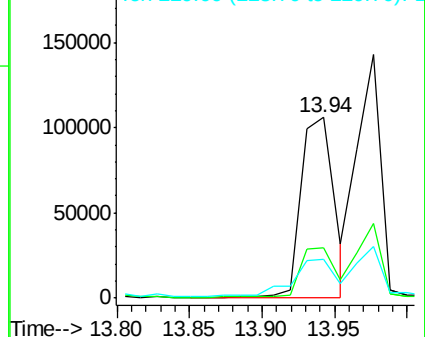
229 21.3 16.0 24.0

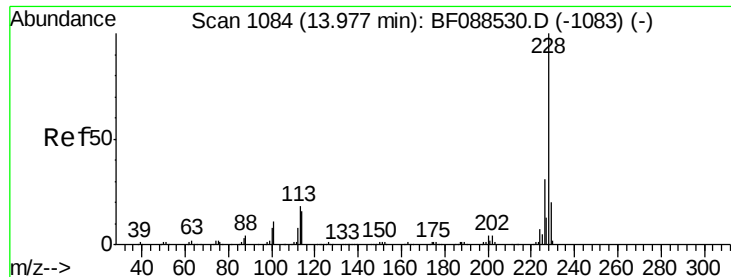


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrvsene

Concen: 8.79 ng

RT: 13.98 min Scan# 1084

Delta R.T. -0.00 min

Lab File: BF088578.D

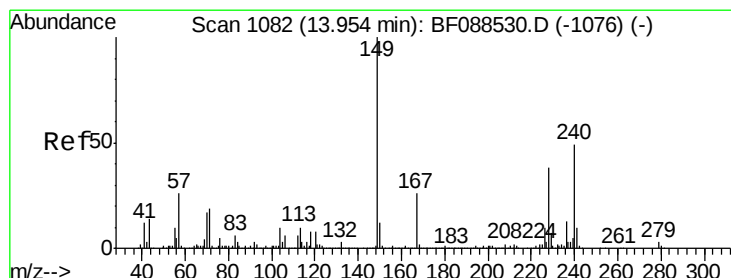
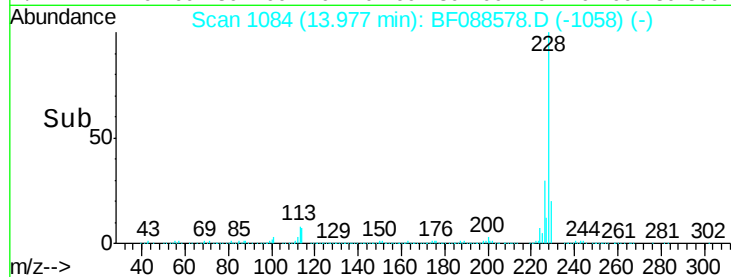
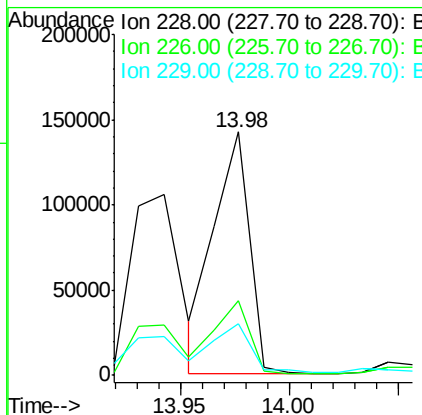
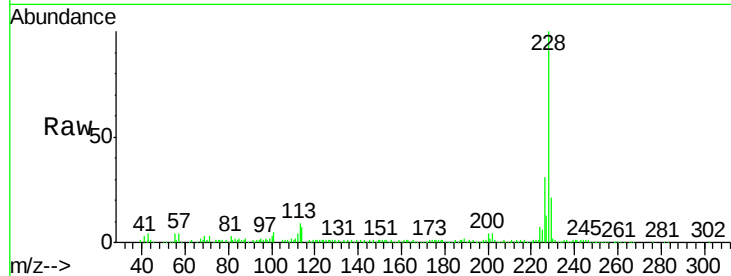
Acq: 1 Jul 2016 16:48

Instrument :

BNA_F

ClientSampleId :

Tot Ion:228	Resp:	161131
Ion	Ratio	Lower Upper
228	100	
226	30.8	25.4 38.2
229	21.3	16.3 24.5



#83

Bis(2-ethylhexyl)phthalate

Concen: 4.10 ng

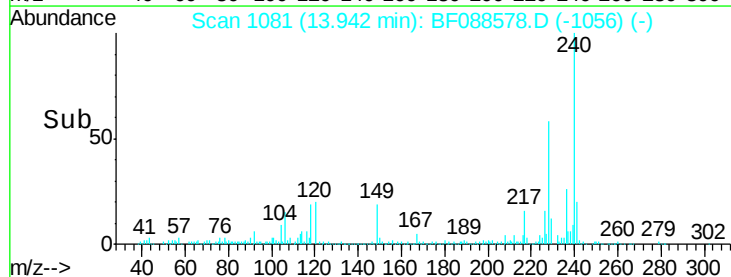
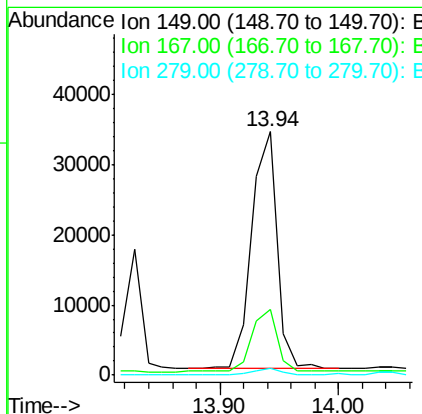
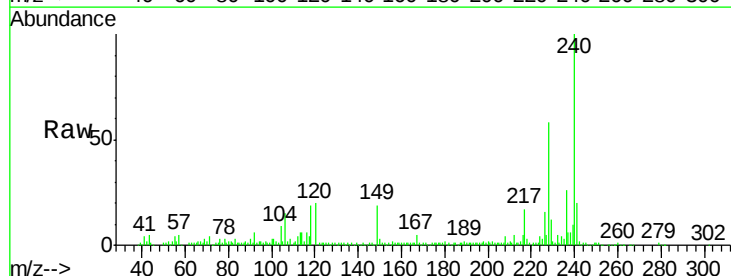
RT: 13.94 min Scan# 1081

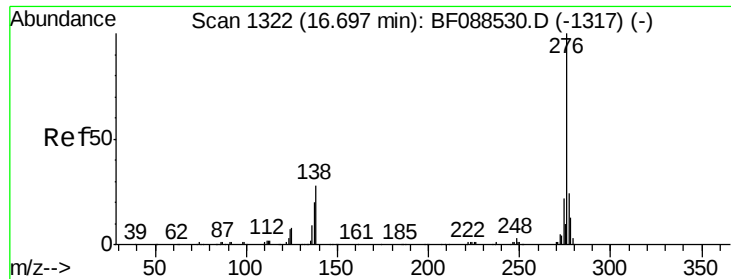
Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

Tgt Ion:149	Resp:	50912
Ion	Ratio	Lower Upper
149	100	
167	27.2	20.5 30.7
279	2.6	2.0 3.0

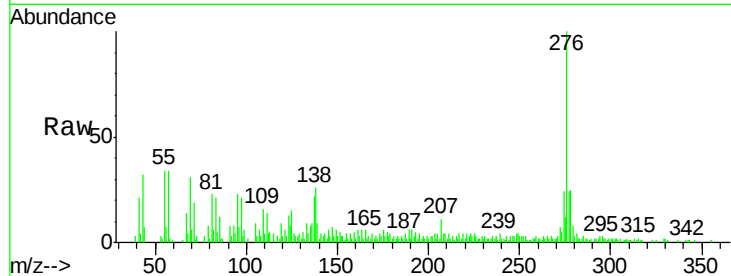




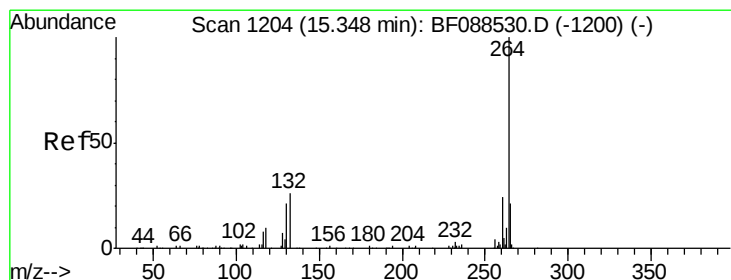
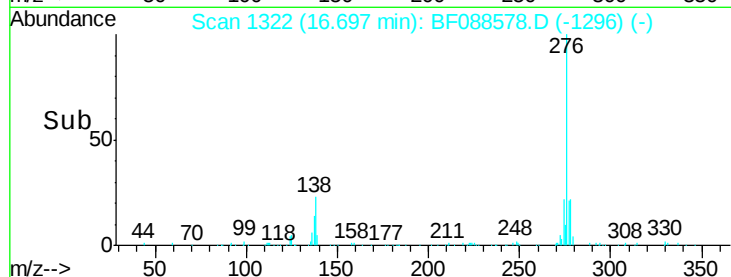
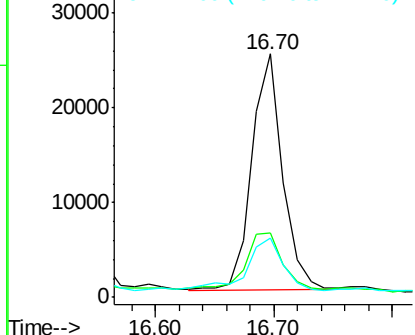
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.22 ng
RT: 16.70 min Scan# 1322
Delta R.T. -0.00 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 45331
Ion Ratio Lower Upper
276 100
138 28.2 0.0 0.0#
277 28.0 0.0 0.0#

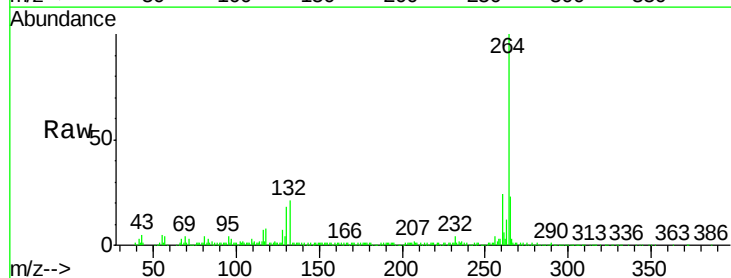


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

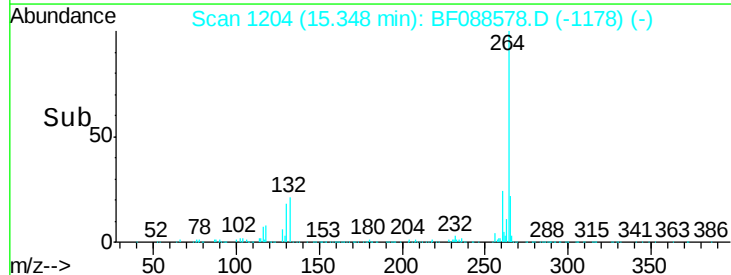
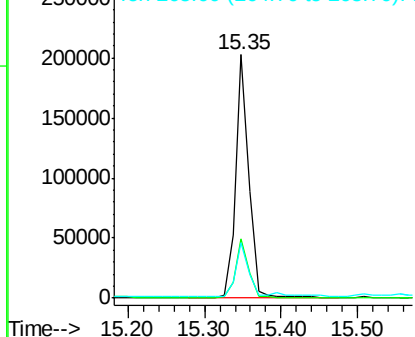


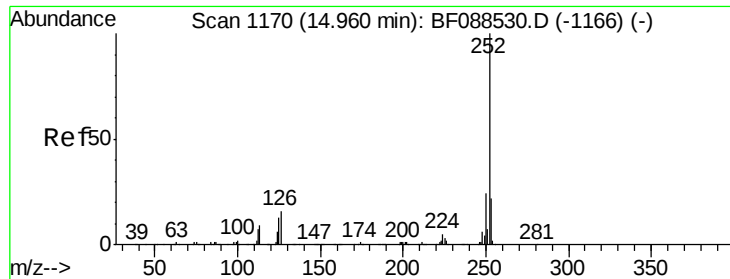
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.35 min Scan# 1204
Delta R.T. -0.00 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Tgt Ion:264 Resp: 244377
Ion Ratio Lower Upper
264 100
260 24.4 19.2 28.8
265 22.7 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: 13.00 ng

RT: 14.95 min Scan# 1169

Delta R.T. -0.01 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

Instrument :

BNA_F

ClientSampleId :

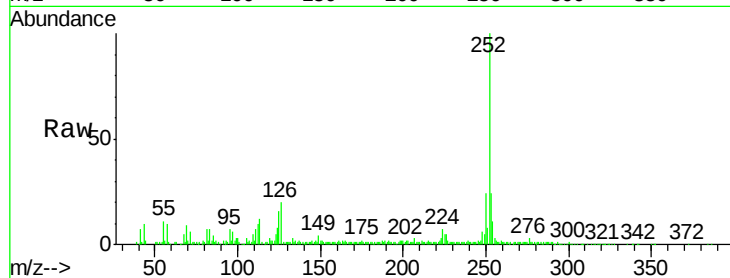
Tot Ion:252 Resp: 199254

Ion Ratio Lower Upper

252 100

253 24.1 17.4 26.2

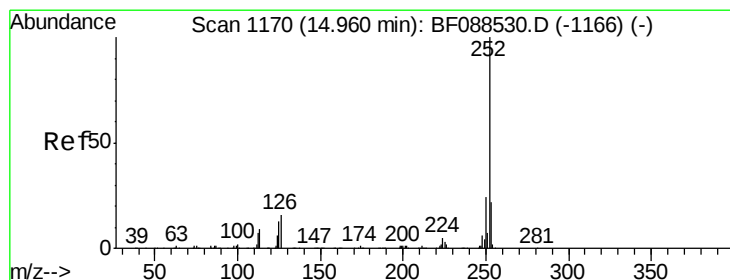
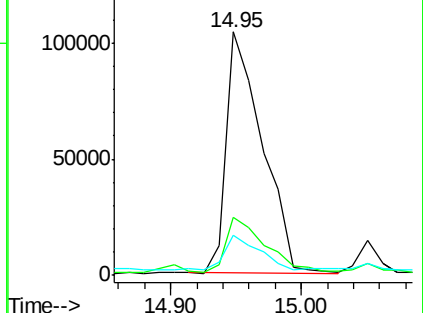
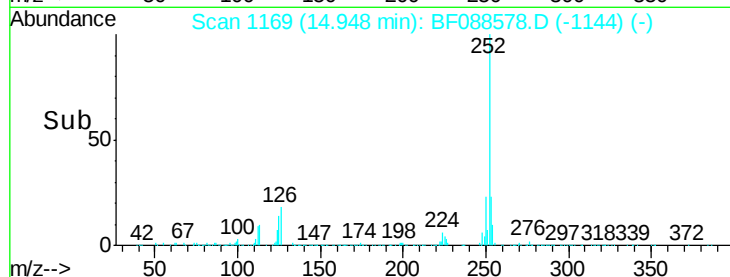
125 16.3 7.1 10.7#



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: 14.93 ng

RT: 14.95 min Scan# 1169

Delta R.T. -0.03 min

Lab File: BF088578.D

Acq: 1 Jul 2016 16:48

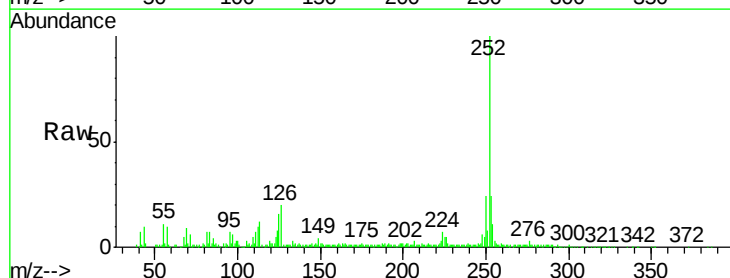
Tgt Ion:252 Resp: 199254

Ion Ratio Lower Upper

252 100

253 24.1 18.0 27.0

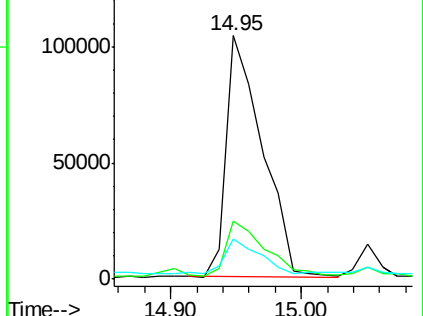
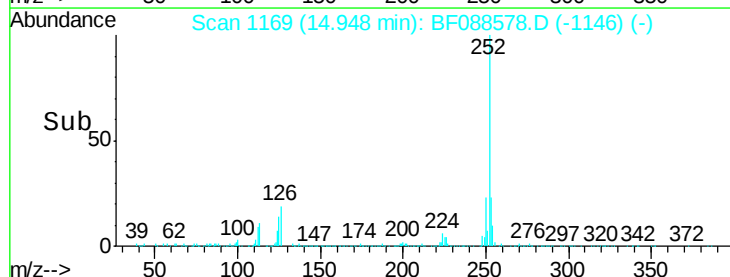
125 16.3 11.2 16.8

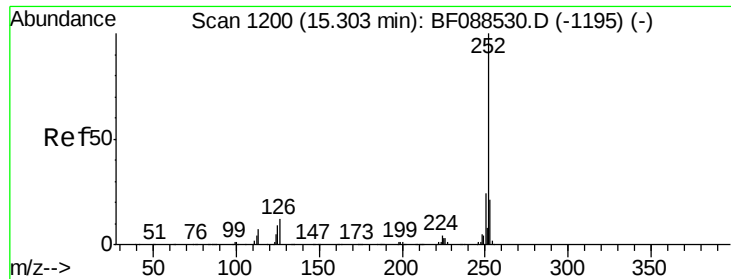


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

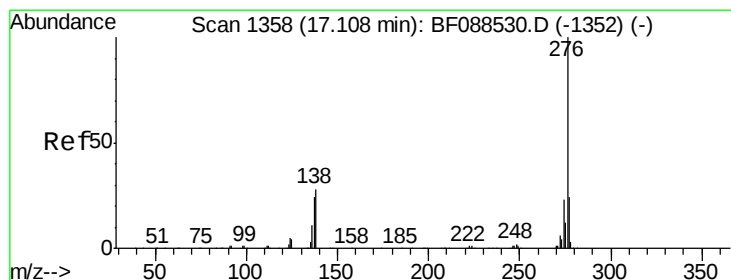
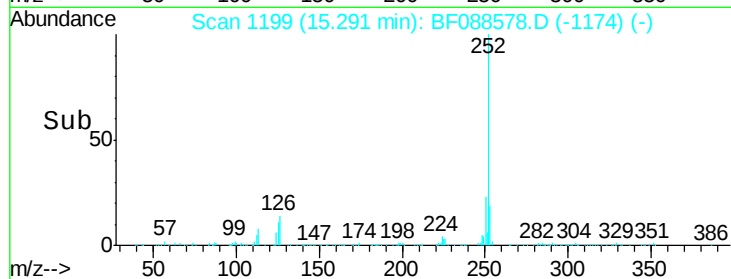
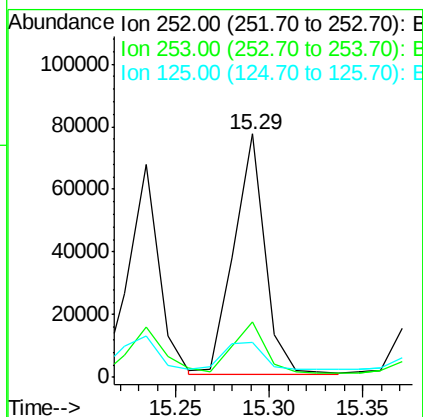
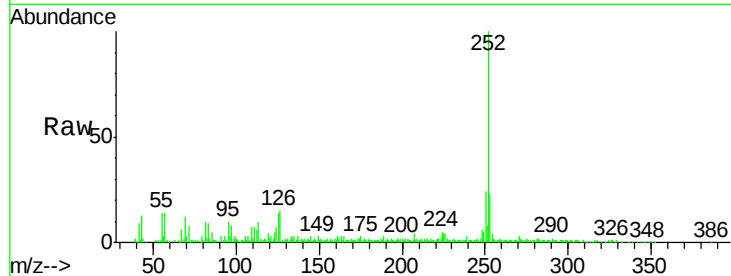




#89
Benzo(a)pyrene
Concen: 6.94 ng
RT: 15.29 min Scan# 1199
Delta R.T. -0.01 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	14.5	12.5	18.7



#91
Benzo(g,h,i)perylene
Concen: 3.67 ng
RT: 17.10 min Scan# 1357
Delta R.T. -0.01 min
Lab File: BF088578.D
Acq: 1 Jul 2016 16:48

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.1	18.9	28.3
138	27.3	21.4	32.2

