

Data Path : V:\HPCHEM1\BNA F\DATA\BF071116\
 Data File : BF088899.D
 Acq On : 11 Jul 2016 15:05
 Operator : UM/SJ
 Sample : H3948-01 4X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 11 17:15:37 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	74467	20.00	ng	-0.02
21) Naphthalene-d8	8.00	136	277172	20.00	ng	-0.02
38) Acenaphthene-d10	9.75	164	122684	20.00	ng	-0.02
63) Phenanthrene-d10	11.22	188	217871	20.00	ng	-0.02
75) Chrysene-d12	13.84	240	145393	20.00	ng	-0.03
86) Perylene-d12	15.21	264	142581	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	176214	35.46	ng	-0.03
7) Phenol-d6	6.34	99	235035	36.61	ng	-0.03
23) Nitrobenzene-d5	7.27	82	135753	25.67	ng	-0.03
41) 2,4,6-Tribromophenol	10.52	330	49029	43.04	ng	-0.03
44) 2-Fluorobiphenyl	9.07	172	245603	31.62	ng	-0.02
78) Terphenyl-d14	12.80	244	150232	23.01	ng	-0.02

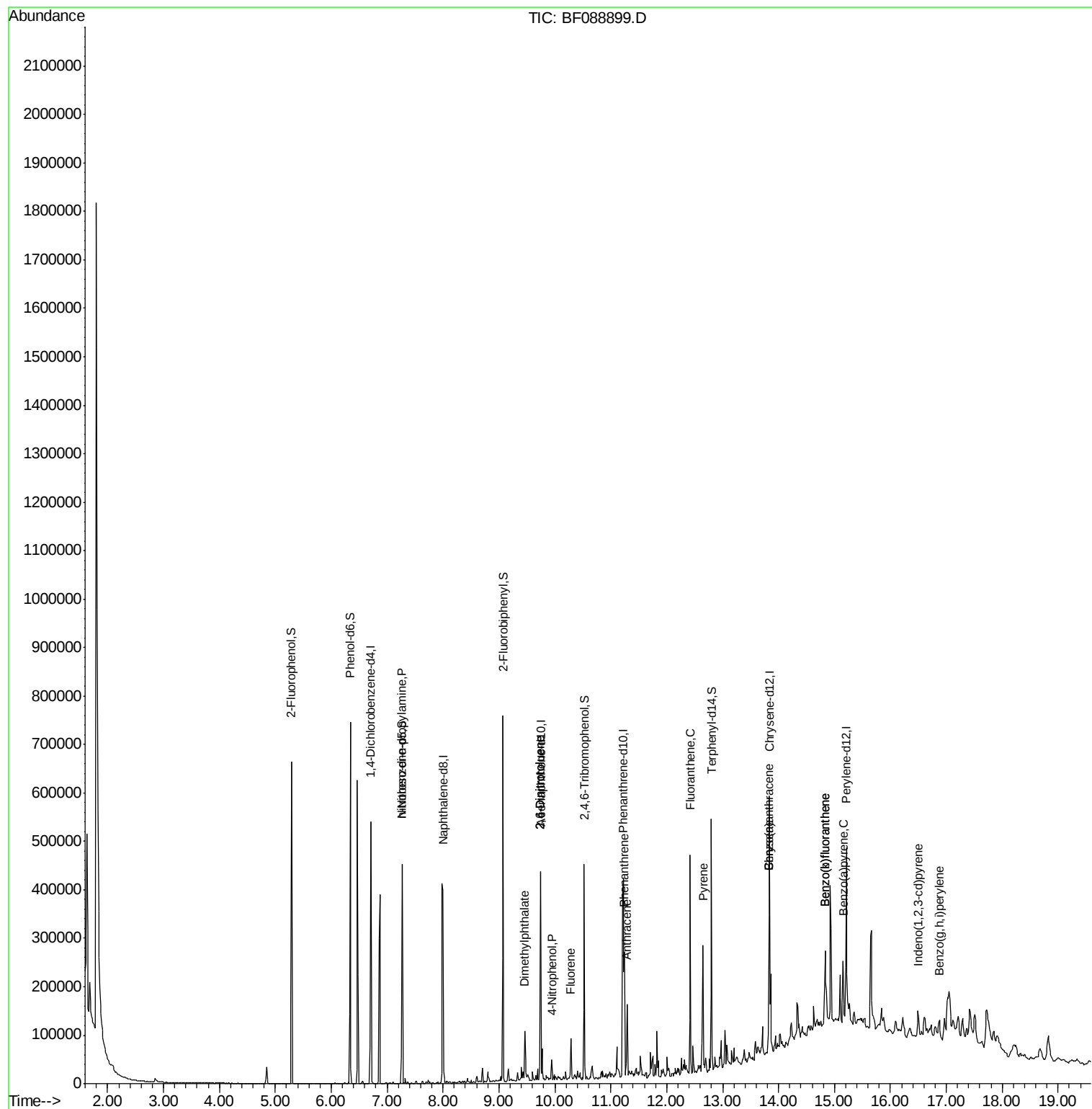
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.27	70	18431	4.27	ng	# 73
49) Dimethylphthalate	9.46	163	40652	4.65	ng	99
50) 2,6-Dinitrotoluene	9.74	165	16074	8.30	ng	# 37
55) 4-Nitrophenol	9.94	139	5123	2.74	ng	# 7
56) 2,4-Dinitrotoluene	9.74	165	16074	6.35	ng	# 36
57) Fluorene	10.28	166	21788	2.78	ng	98
70) Phenanthrene	11.25	178	135013	11.34	ng	97
71) Anthracene	11.29	178	47929	4.05	ng	97
74) Fluoranthene	12.42	202	171083	14.17	ng	97
77) Pyrene	12.65	202	146242	11.86	ng	98
80) Benzo(a)anthracene	13.83	228	74223	7.93	ng	98
82) Chrysene	13.83	228	74223	8.01	ng	97
85) Indeno(1,2,3-cd)pyrene	16.49	276	28729	4.03	ng	# 100
87) Benzo(b)fluoranthene	14.83	252	91483	10.23	ng	# 93
88) Benzo(k)fluoranthene	14.83	252	91483	11.75	ng	98
89) Benzo(a)pyrene	15.15	252	51018	6.74	ng	97
91) Benzo(a,h,i)perylene	16.88	276	30110	4.60	ng	94

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

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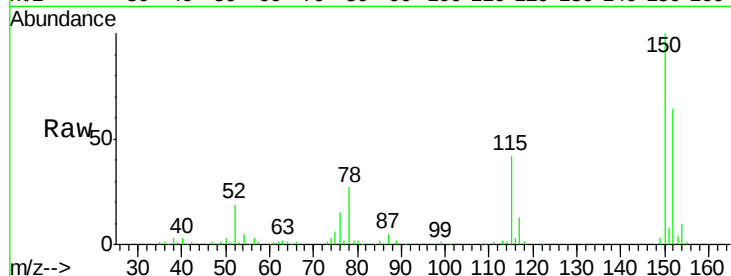


#1

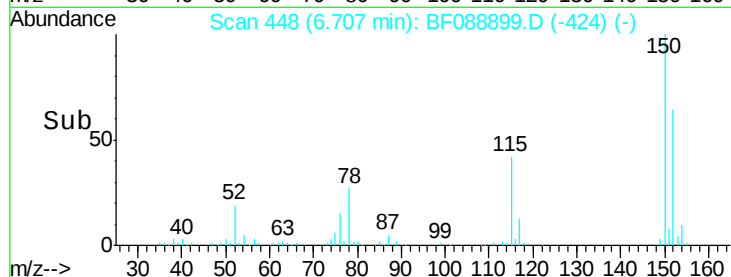
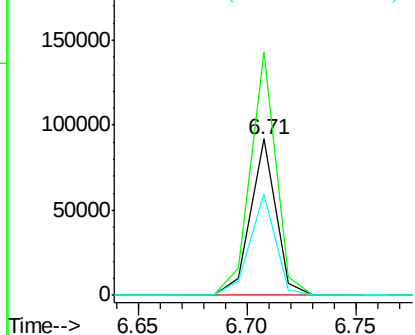
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.71 min Scan# 448
Delta R.T. -0.02 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 74467
Ion Ratio Lower Upper
152 100
150 155.7 123.8 185.6
115 65.2 39.6 59.4#



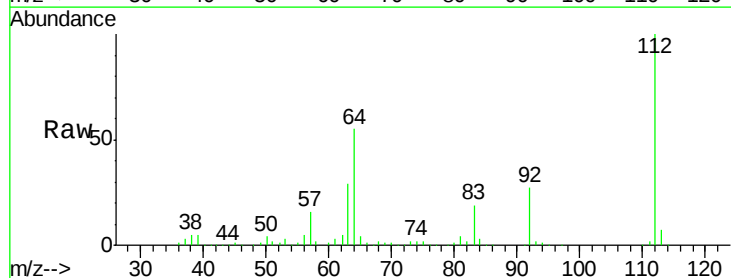
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



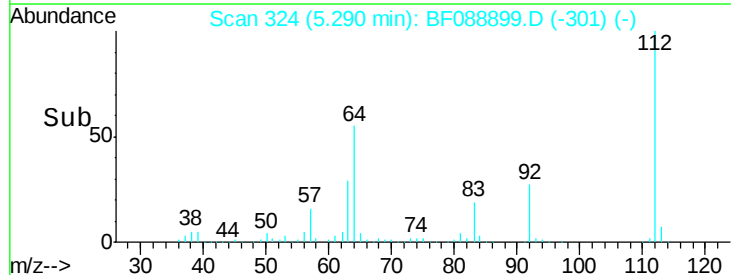
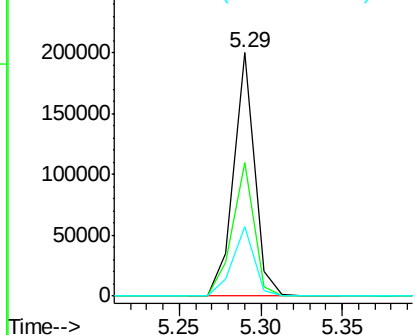
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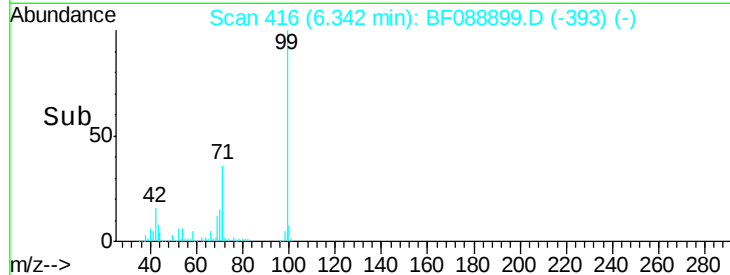
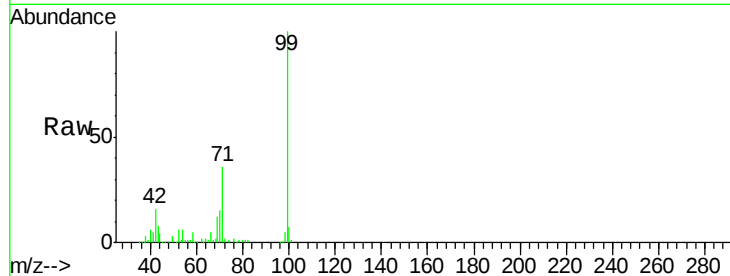
2-Fluorophenol
Concen: 35.46 ng
RT: 5.29 min Scan# 324
Delta R.T. -0.03 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Tgt Ion:112 Resp: 176214
Ion Ratio Lower Upper
112 100
64 54.7 42.2 63.2
63 28.8 21.8 32.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 36.61 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.03 min

Lab File: BF088899.D

Acq: 11 Jul 2016 15:05

Instrument :

BNA_F

ClientSampleId :

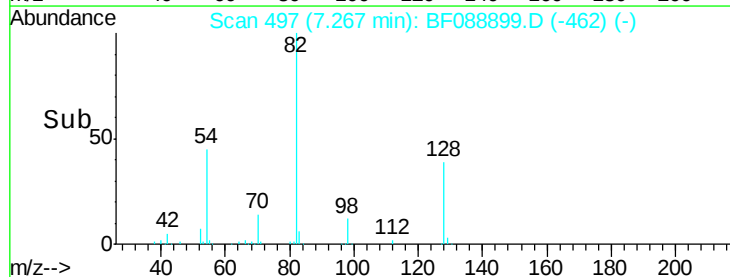
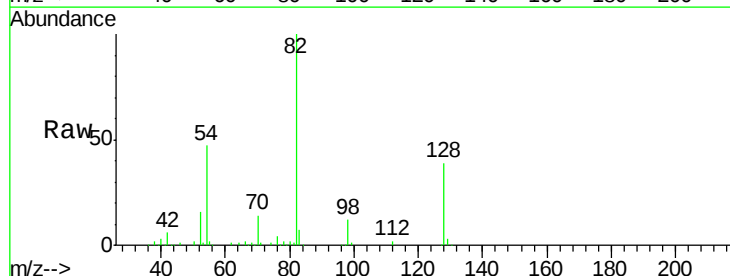
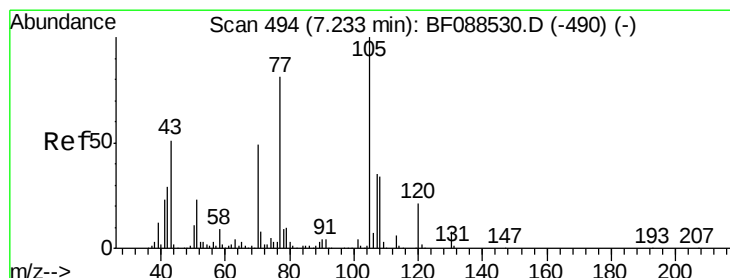
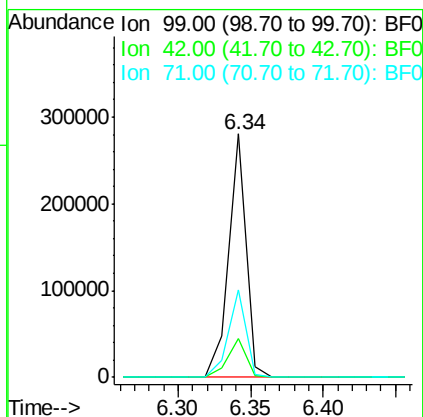
Tot Ion: 99 Resp: 235035

Ion Ratio Lower Upper

99 100

42 16.0 12.2 18.2

71 36.0 23.4 35.0#



#19

n-Nitroso-di-n-propylamine

Concen: 4.27 ng

RT: 7.27 min Scan# 497

Delta R.T. 0.10 min

Lab File: BF088899.D

Acq: 11 Jul 2016 15:05

Tgt Ion: 70 Resp: 18431

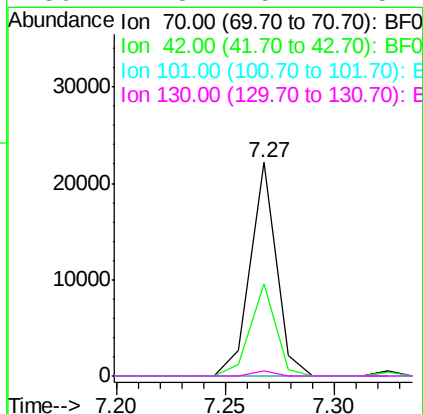
Ion Ratio Lower Upper

70 100

42 43.0 49.6 74.4#

101 0.0 7.1 10.7#

130 2.3 15.4 23.2#

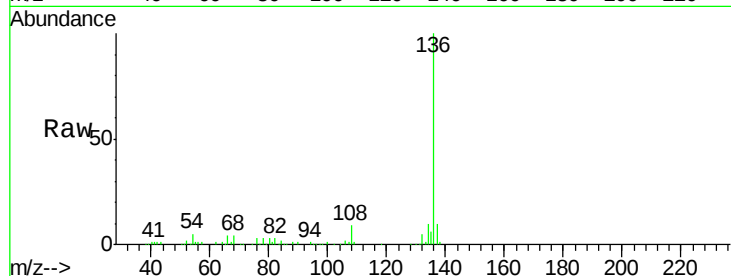




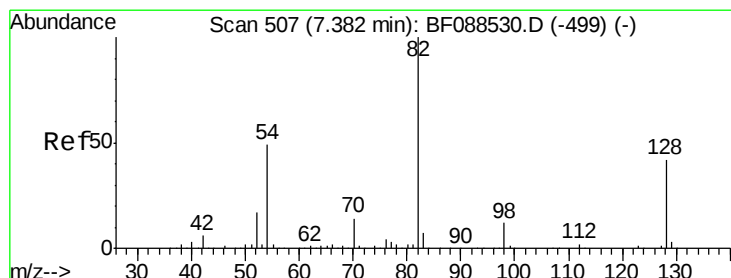
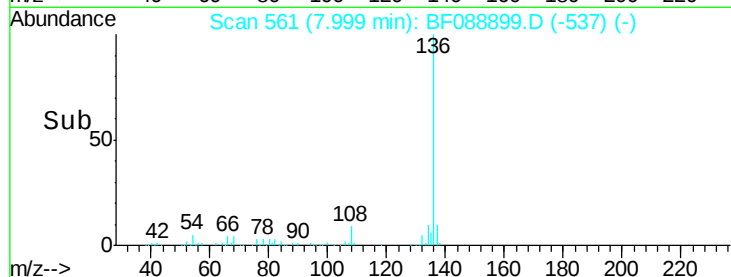
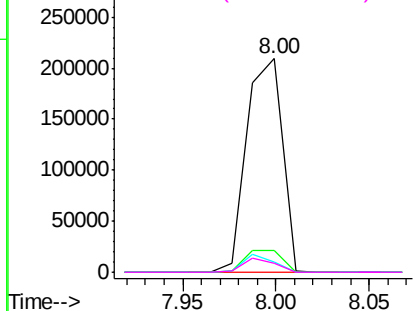
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.00 min Scan# 561
Delta R.T. -0.02 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	277172
Ion Ratio	Lower	Upper
136	100	
137	10.2	9.1 13.7
54	4.8	6.6 10.0#
68	4.3	5.1 7.7#

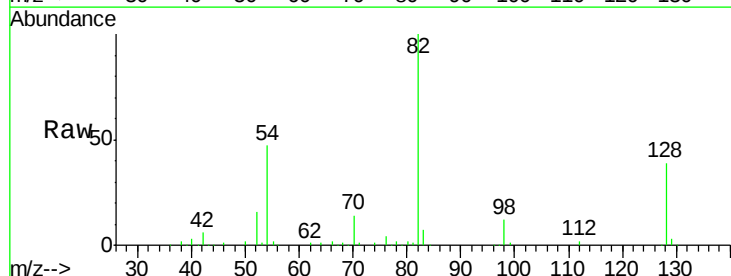


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

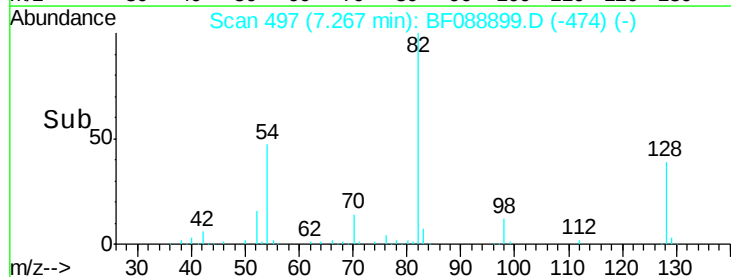
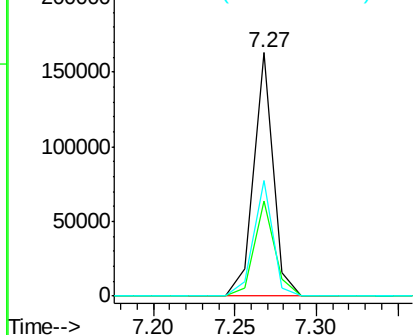


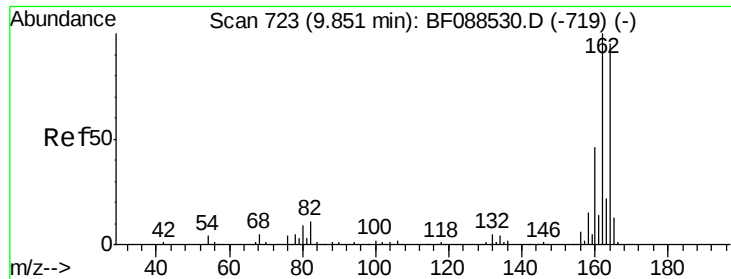
#23
Nitrobenzene-d5
Concen: 25.67 ng
RT: 7.27 min Scan# 497
Delta R.T. -0.03 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Tgt Ion: 82	Resp:	135753
Ion Ratio	Lower	Upper
82	100	
128	39.2	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

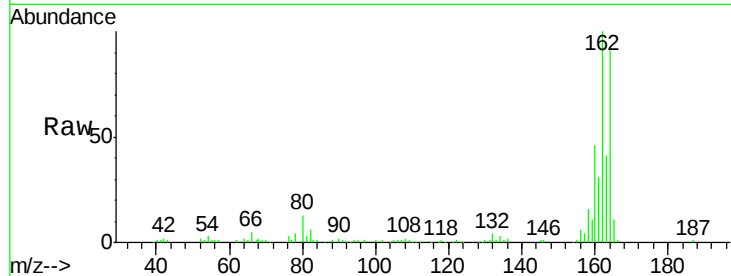




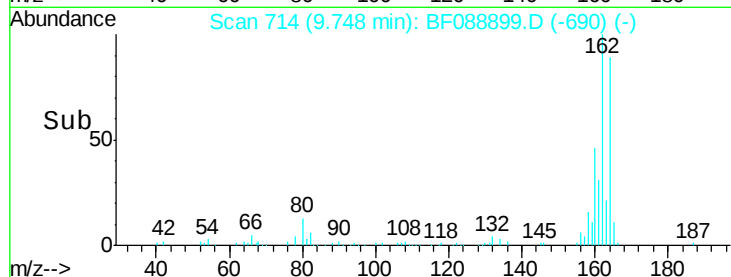
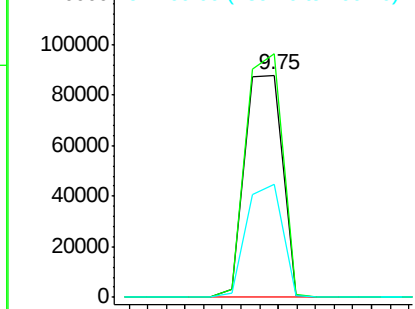
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.75 min Scan# 714
 Delta R.T. -0.02 min
 Lab File: BF088899.D
 Acq: 11 Jul 2016 15:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 122684
 Ion Ratio Lower Upper
 164 100
 162 109.5 85.4 128.2
 160 50.9 39.5 59.3

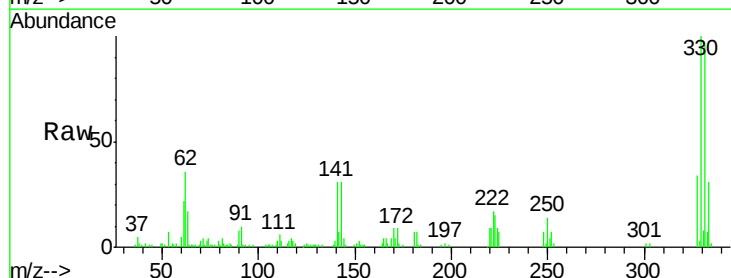


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

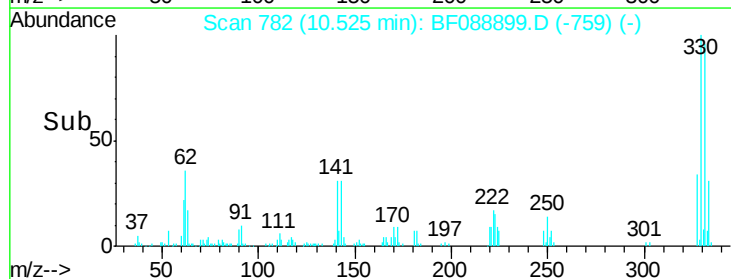
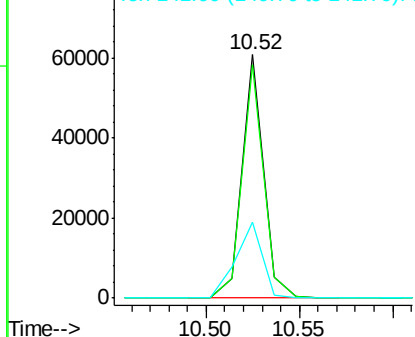


#41
 2,4,6-Tribromophenol
 Concen: 43.04 ng
 RT: 10.52 min Scan# 782
 Delta R.T. -0.03 min
 Lab File: BF088899.D
 Acq: 11 Jul 2016 15:05

Tgt Ion:330 Resp: 49029
 Ion Ratio Lower Upper
 330 100
 332 96.1 0.0 0.0#
 141 38.5 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

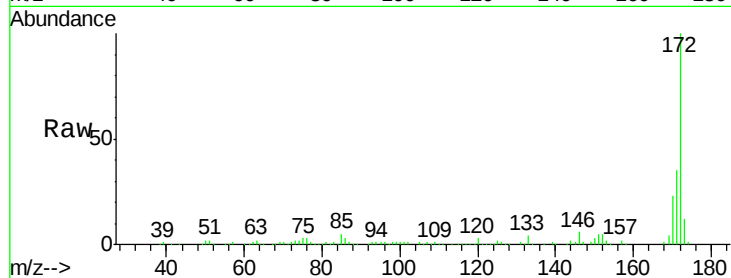




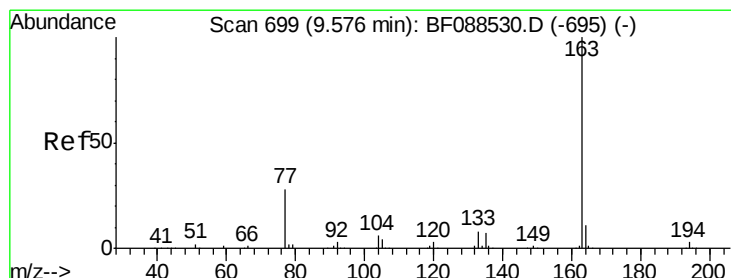
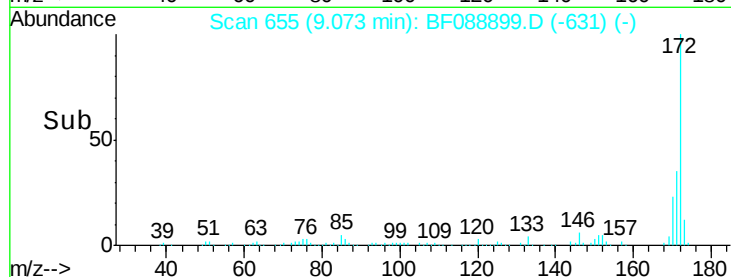
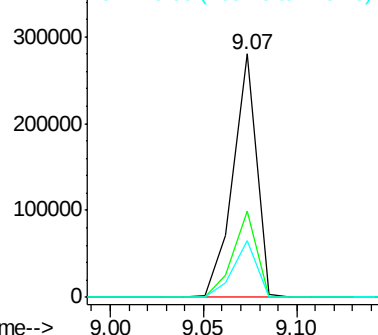
#44
 2-Fluorobiphenyl
 Concen: 31.62 ng
 RT: 9.07 min Scan# 655
 Delta R.T. -0.02 min
 Lab File: BF088899.D
 Acq: 11 Jul 2016 15:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 245603
 Ion Ratio Lower Upper
 172 100
 171 35.1 28.6 43.0
 170 23.1 19.2 28.8

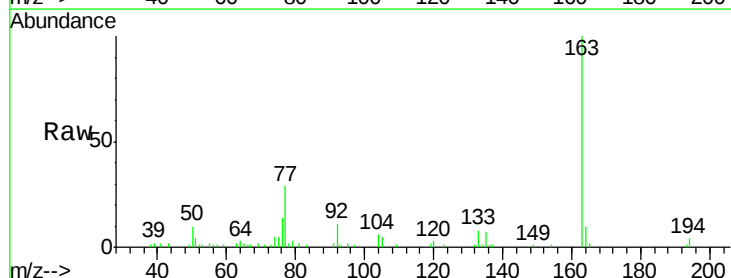


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

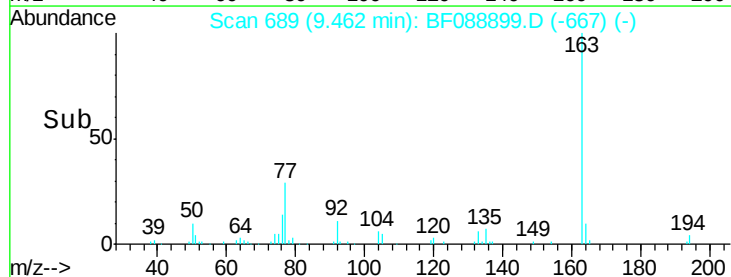
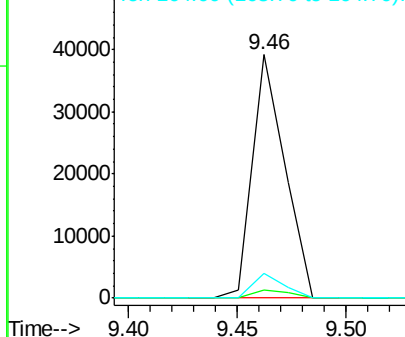


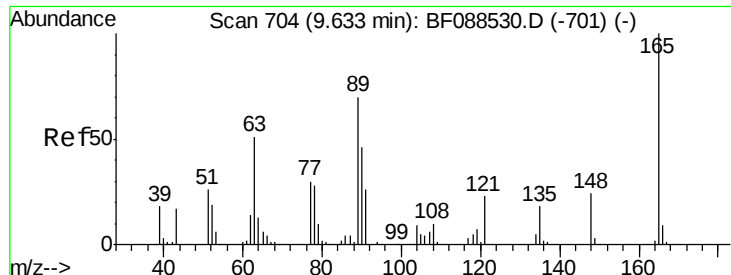
#49
 Dimethylphthalate
 Concen: 4.65 ng
 RT: 9.46 min Scan# 689
 Delta R.T. -0.05 min
 Lab File: BF088899.D
 Acq: 11 Jul 2016 15:05

Tgt Ion:163 Resp: 40652
 Ion Ratio Lower Upper
 163 100
 194 3.5 2.8 4.2
 164 10.1 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

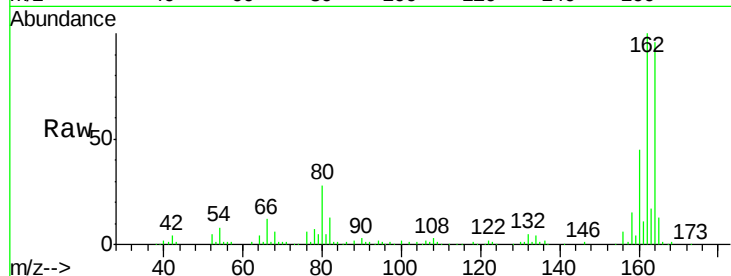




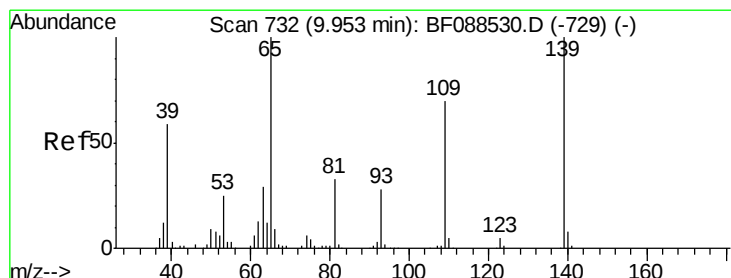
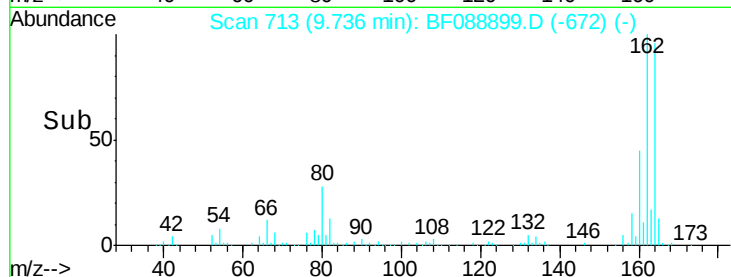
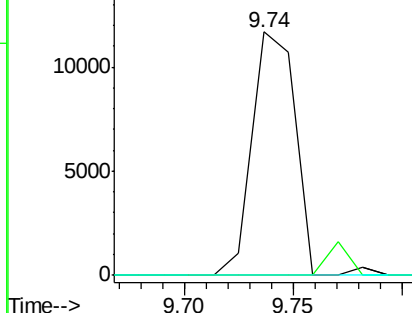
#50
 2,6-Dinitrotoluene
 Concen: 8.30 ng
 RT: 9.74 min Scan# 713
 Delta R.T. 0.17 min
 Lab File: BF088899.D
 Acq: 11 Jul 2016 15:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	28.1	42.1#
89	0.0	32.2	48.2#

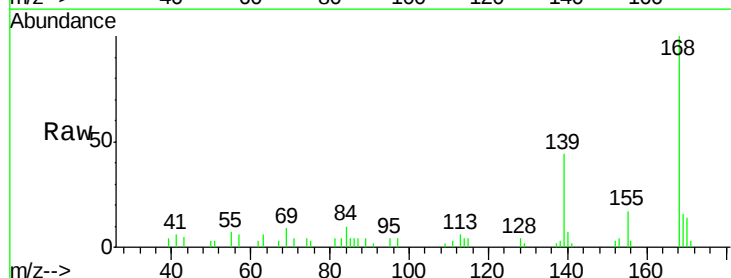


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

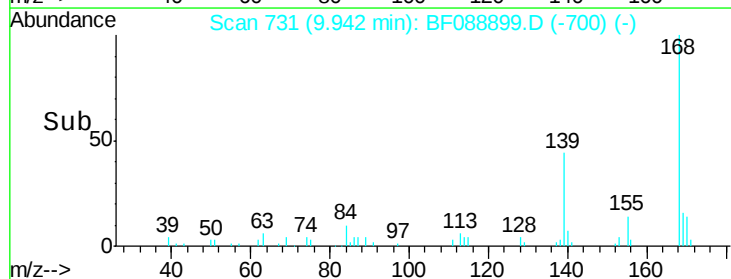
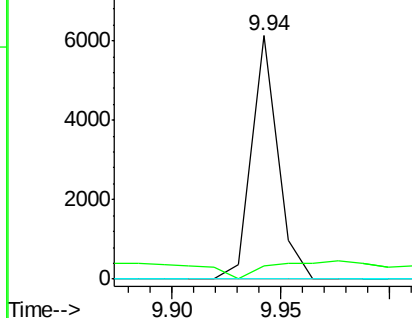


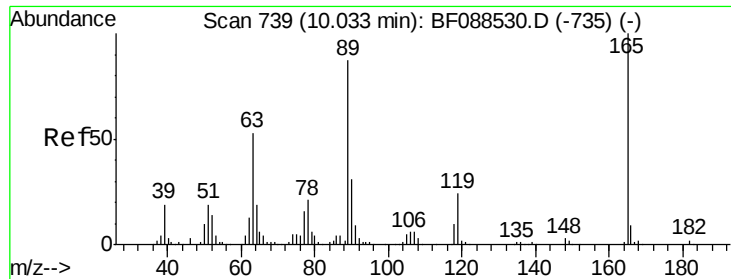
#55
 4-Nitrophenol
 Concen: 2.74 ng
 RT: 9.94 min Scan# 731
 Delta R.T. 0.06 min
 Lab File: BF088899.D
 Acq: 11 Jul 2016 15:05

Tgt Ion	Ratio	Lower	Upper
139	100		
109	5.5	48.9	88.9#
65	0.0	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

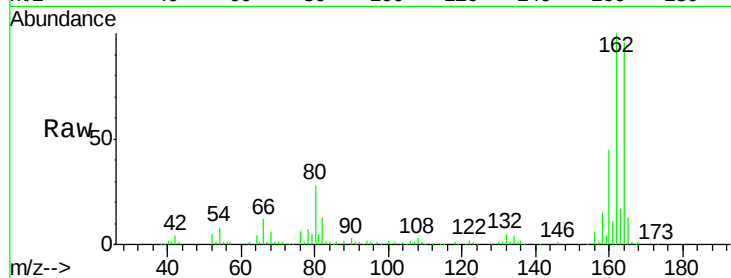




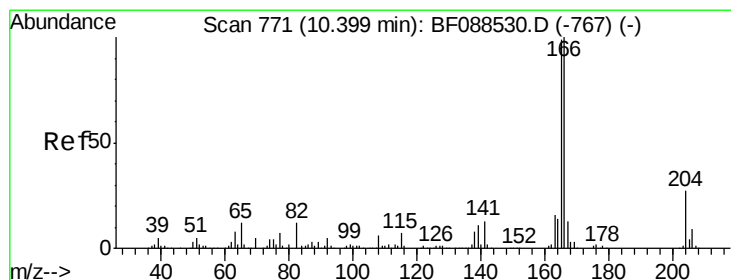
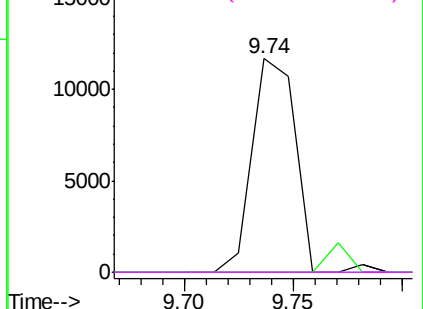
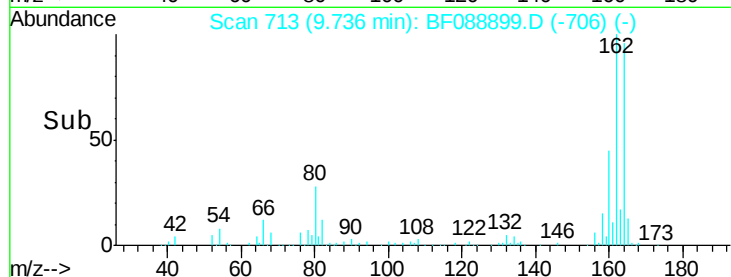
#56
2,4-Dinitrotoluene
Concen: 6.35 ng
RT: 9.74 min Scan# 713
Delta R.T. -0.22 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 16074
Ion Ratio Lower Upper
165 100
63 0.0 22.0 33.0#
89 0.0 41.1 61.7#
182 0.0 2.0 3.0#

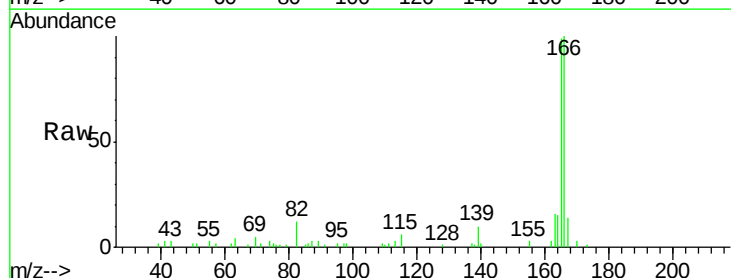


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

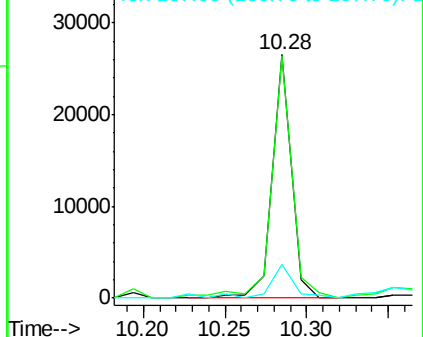
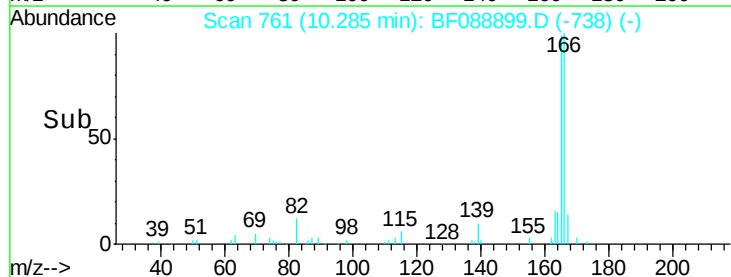


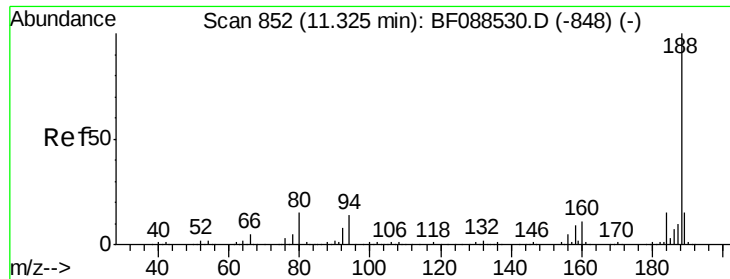
#57
Fluorene
Concen: 2.78 ng
RT: 10.28 min Scan# 761
Delta R.T. -0.03 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Tgt Ion:166 Resp: 21788
Ion Ratio Lower Upper
166 100
165 99.5 77.8 116.8
167 14.0 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

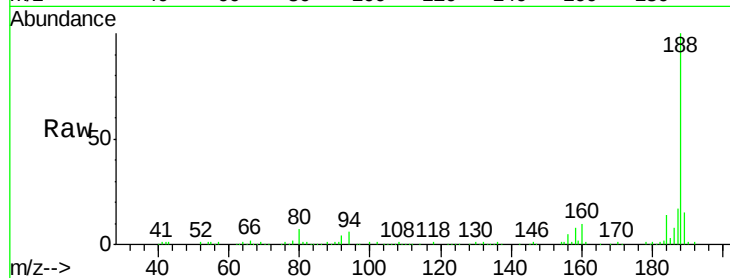




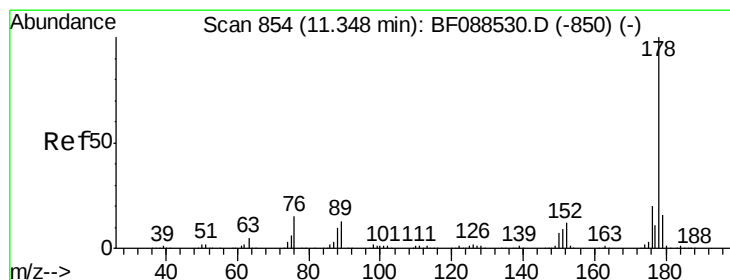
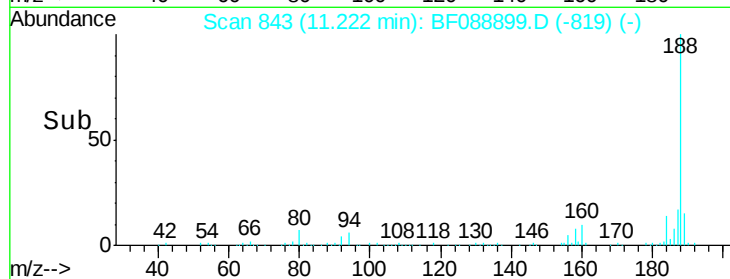
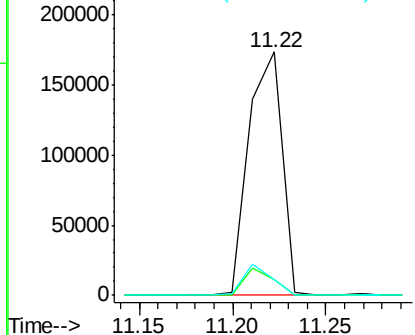
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 843
Delta R.T. -0.02 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 217871
Ion Ratio Lower Upper
188 100
94 6.4 9.0 13.6#
80 6.7 10.0 15.0#

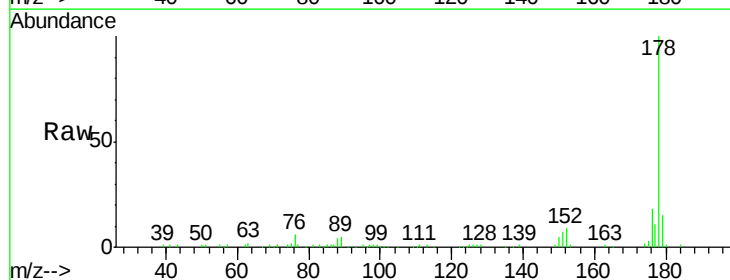


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

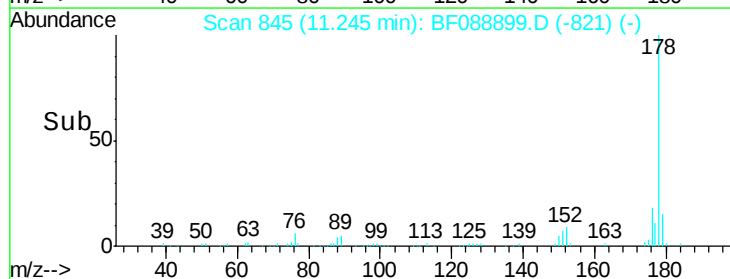
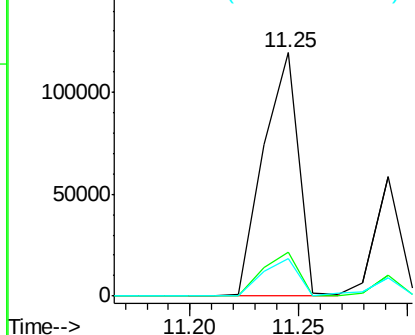


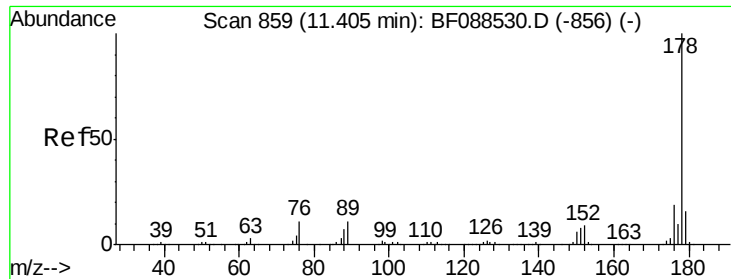
#70
Phenanthrene
Concen: 11.34 ng
RT: 11.25 min Scan# 845
Delta R.T. -0.02 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Tgt Ion:178 Resp: 135013
Ion Ratio Lower Upper
178 100
176 18.3 15.8 23.6
179 15.3 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

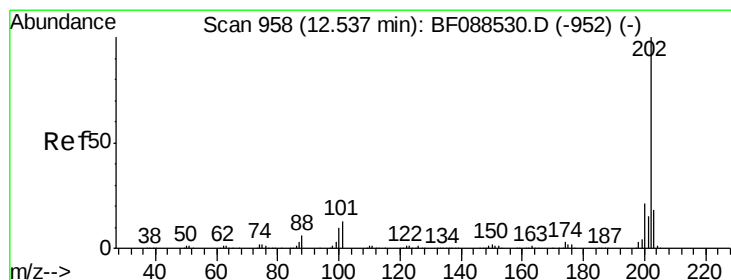
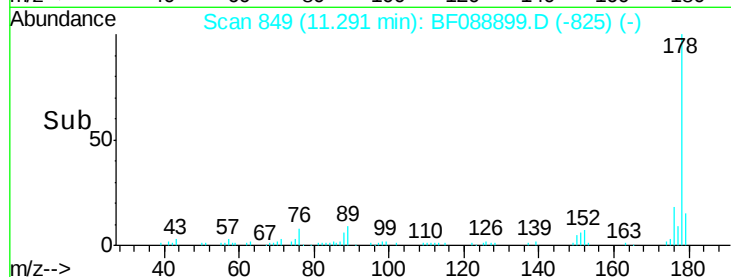
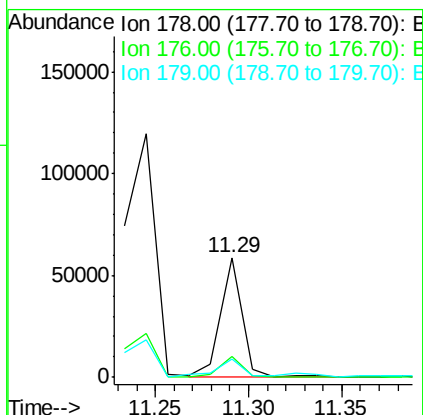
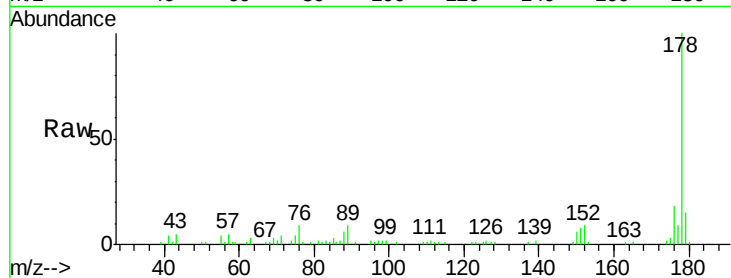




#71
 Anthracene
 Concen: 4.05 ng
 RT: 11.29 min Scan# 849
 Delta R.T. -0.02 min
 Lab File: BF088899.D
 Acq: 11 Jul 2016 15:05

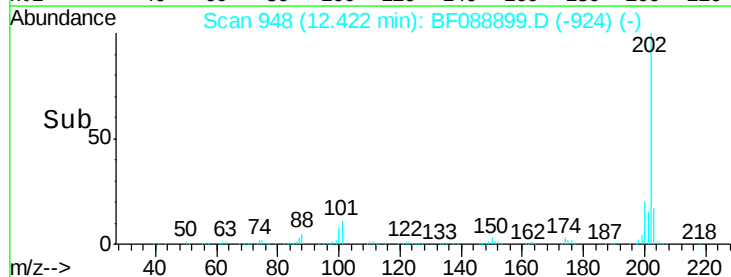
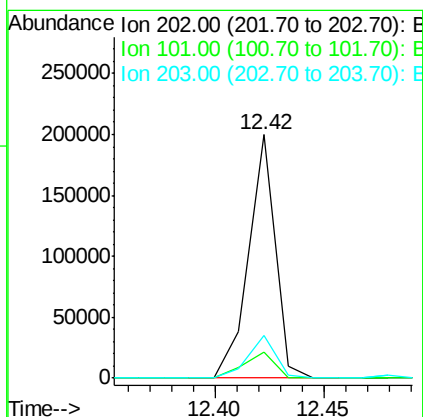
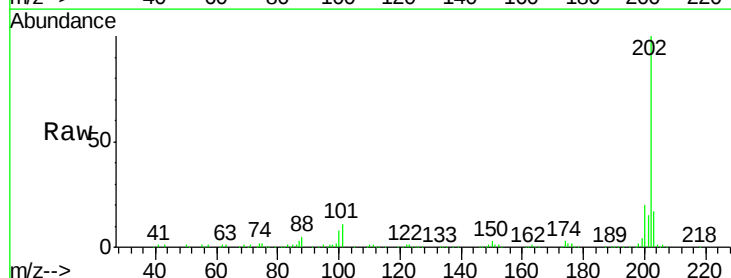
Instrument :
 BNA_F
 ClientSampleId :

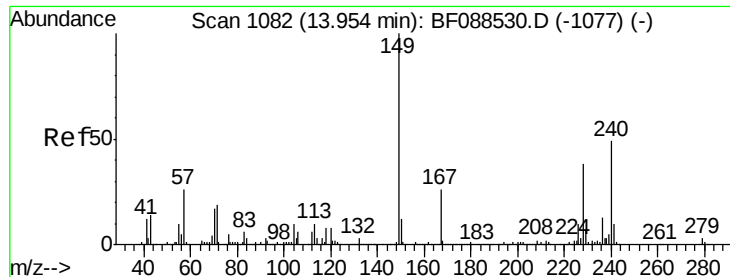
Tot Ion:178 Resp: 47929
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.6 23.4
 179 15.2 12.8 19.2



#74
 Fluoranthene
 Concen: 14.17 ng
 RT: 12.42 min Scan# 948
 Delta R.T. -0.02 min
 Lab File: BF088899.D
 Acq: 11 Jul 2016 15:05

Tgt Ion:202 Resp: 171083
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 33.1
 203 17.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.03 min

Lab File: BF088899.D

Acq: 11 Jul 2016 15:05

Instrument :

BNA_F

ClientSampleId :

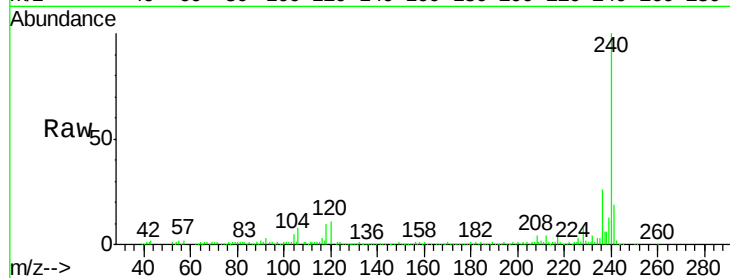
Tot Ion:240 Resp: 145393

Ion Ratio Lower Upper

240 100

120 11.1 6.8 10.2#

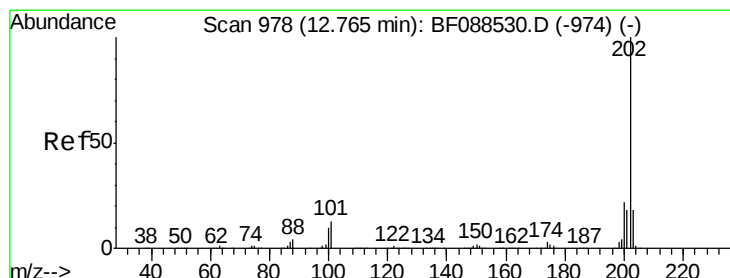
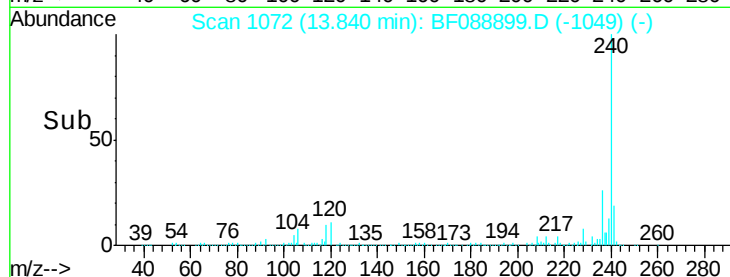
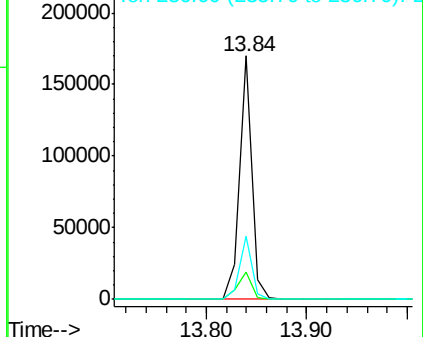
236 25.8 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 11.86 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.02 min

Lab File: BF088899.D

Acq: 11 Jul 2016 15:05

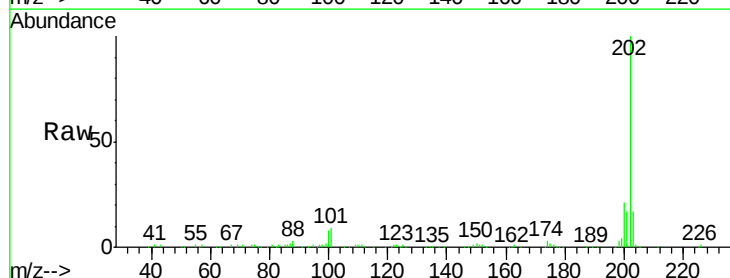
Tgt Ion:202 Resp: 146242

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

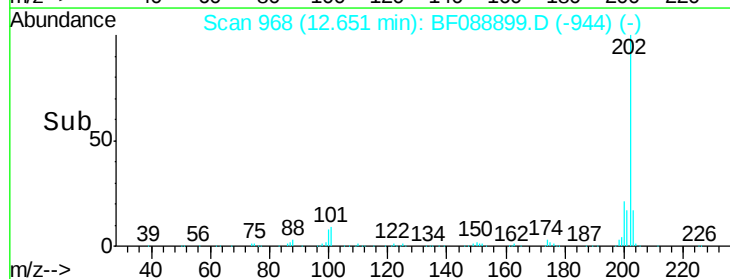
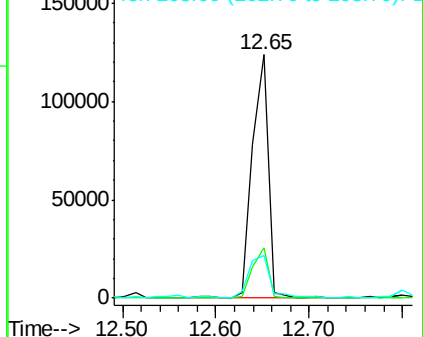
203 17.4 14.5 21.7

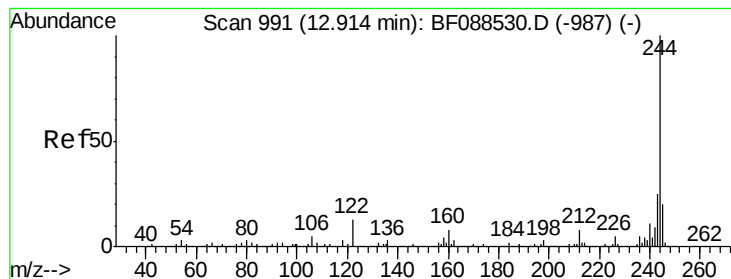


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 23.01 ng

RT: 12.80 min Scan# 981

Delta R.T. -0.02 min

Lab File: BF088899.D

Acq: 11 Jul 2016 15:05

Instrument :

BNA_F

ClientSampleId :

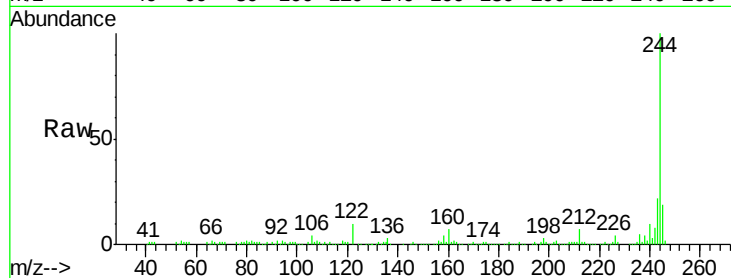
Tot Ion:244 Resp: 150232

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

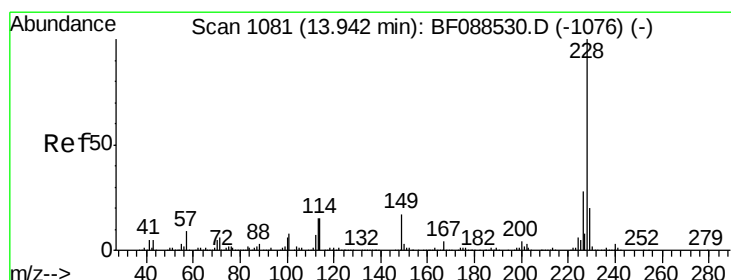
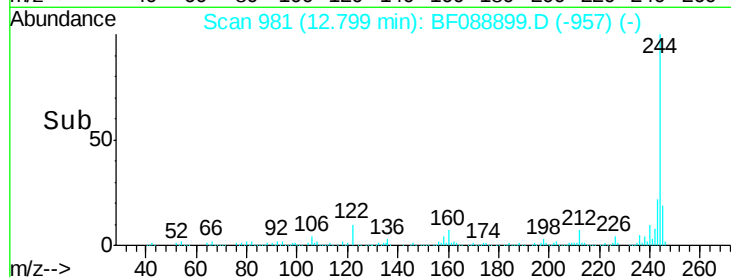
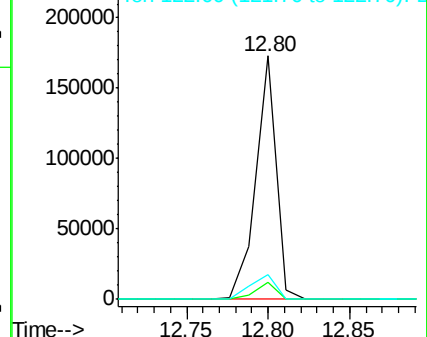
122 10.3 11.2 16.8#



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: 7.93 ng

RT: 13.83 min Scan# 1071

Delta R.T. -0.02 min

Lab File: BF088899.D

Acq: 11 Jul 2016 15:05

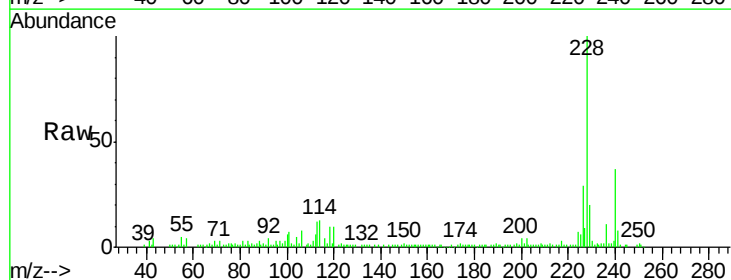
Tgt Ion:228 Resp: 74223

Ion Ratio Lower Upper

228 100

226 29.0 22.3 33.5

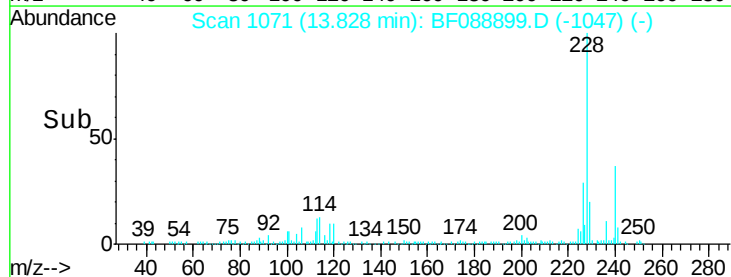
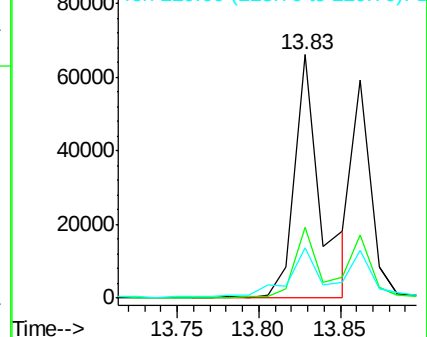
229 20.4 16.0 24.0

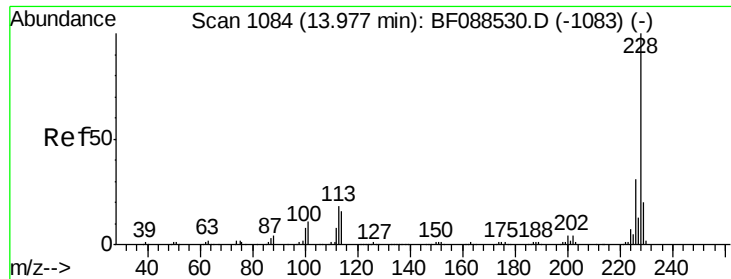


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

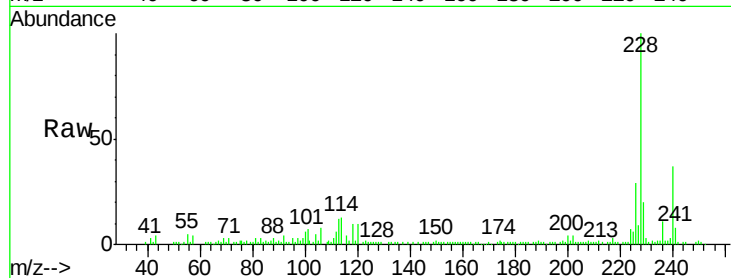




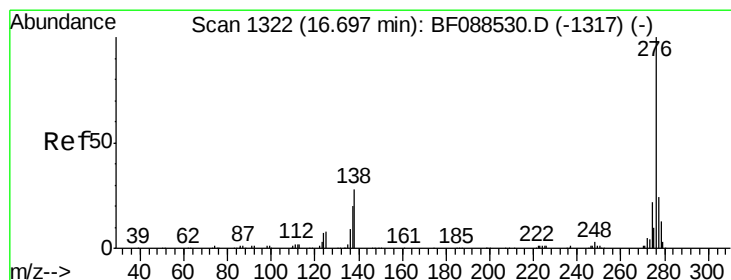
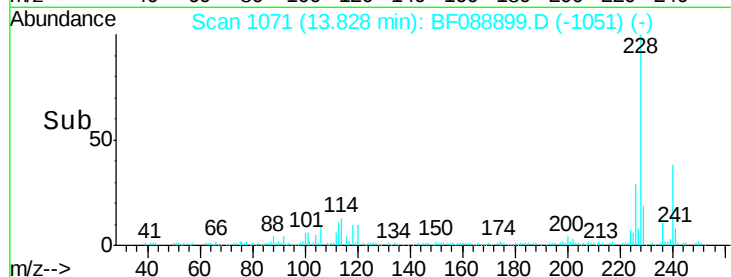
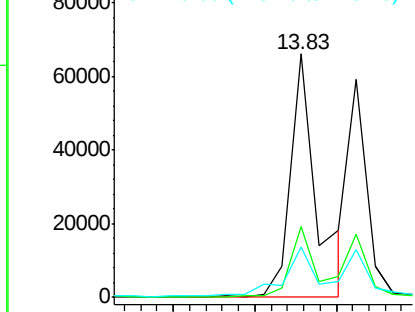
#82
Chrysene
Concen: 8.01 ng
RT: 13.83 min Scan# 1071
Delta R.T. -0.07 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 74223
Ion Ratio Lower Upper
228 100
226 29.0 25.4 38.2
229 20.4 16.3 24.5

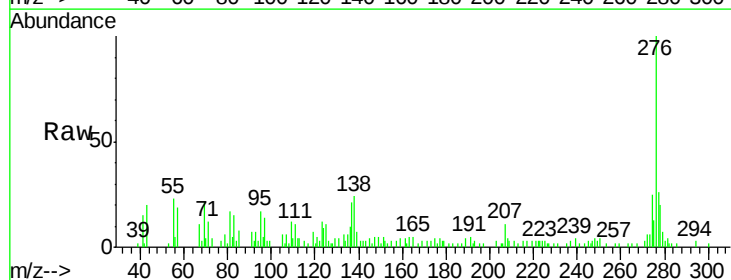


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

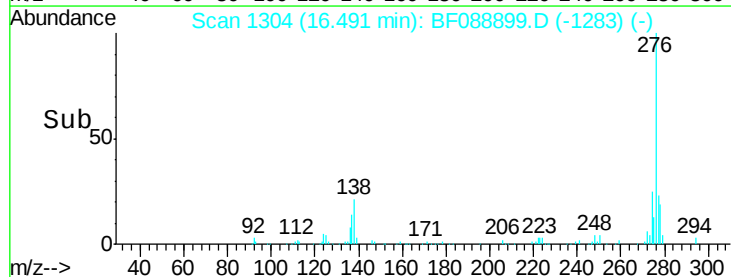
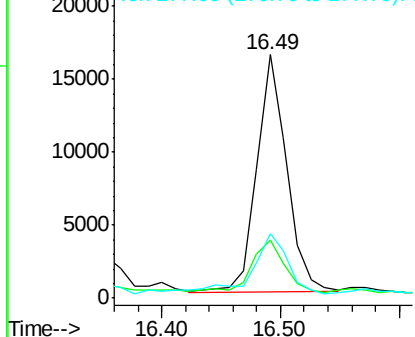


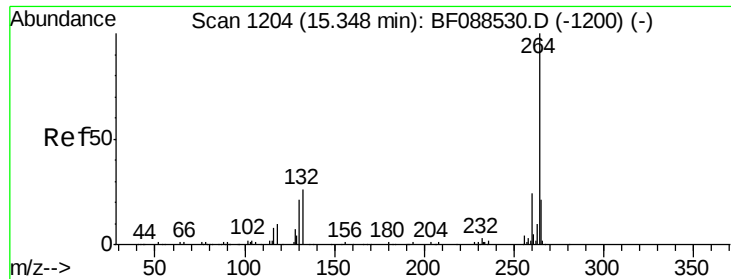
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.03 ng
RT: 16.49 min Scan# 1304
Delta R.T. -0.06 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Tgt Ion:276 Resp: 28729
Ion Ratio Lower Upper
276 100
138 24.9 0.0 0.0#
277 29.7 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

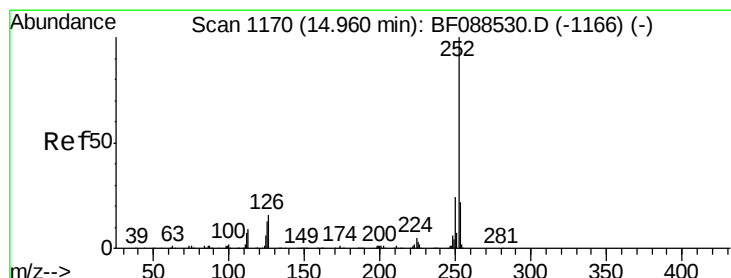
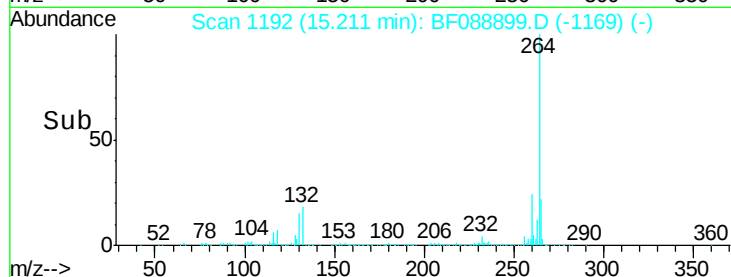
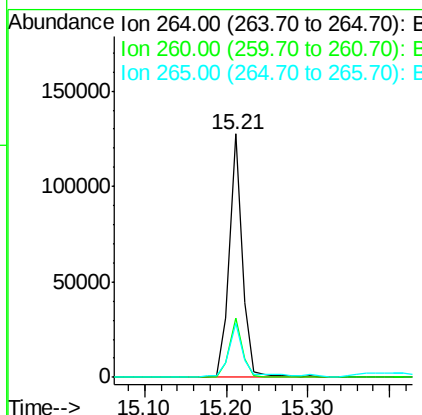
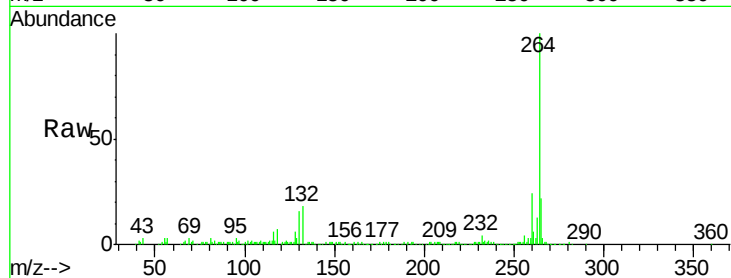




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.21 min Scan# 1192
Delta R.T. -0.03 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

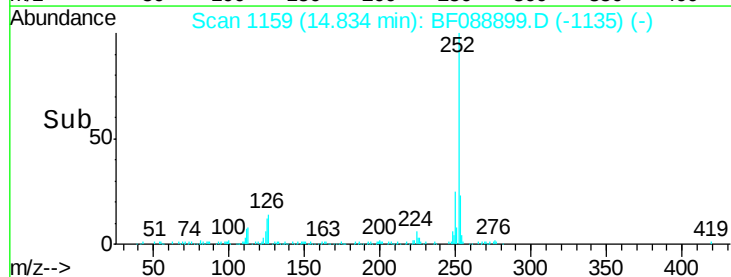
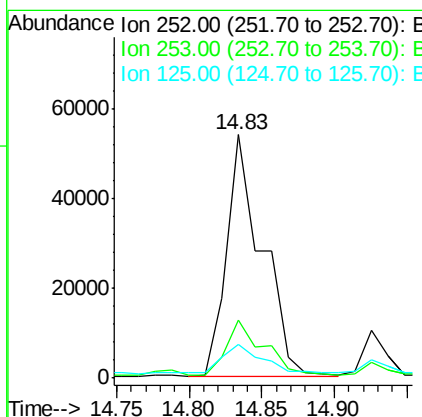
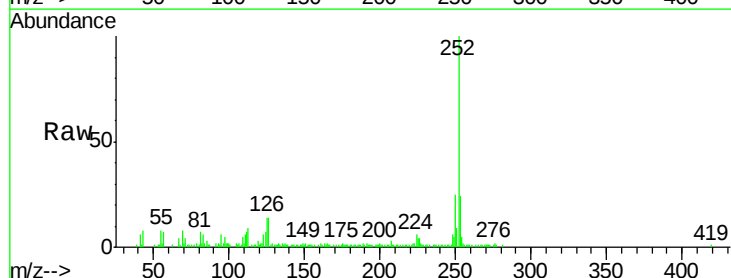
Instrument :
BNA_F
ClientSampleId :

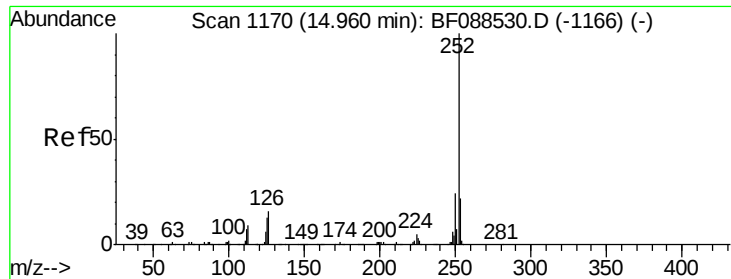
Tot Ion:264 Resp: 142581
Ion Ratio Lower Upper
264 100
260 24.4 19.2 28.8
265 22.3 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 10.23 ng
RT: 14.83 min Scan# 1159
Delta R.T. -0.02 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Tgt Ion:252 Resp: 91483
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.2
125 14.0 7.1 10.7#

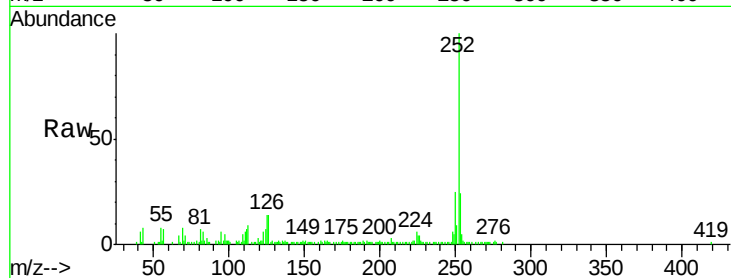




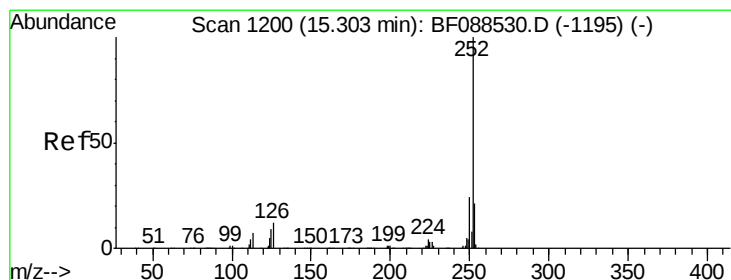
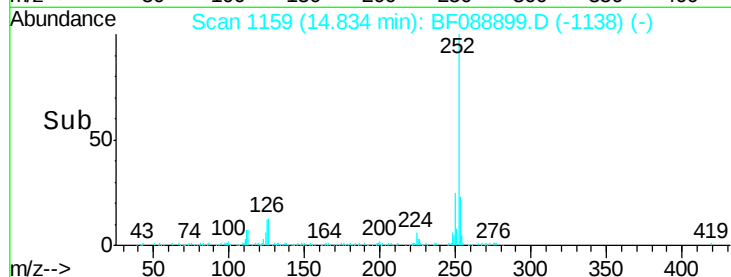
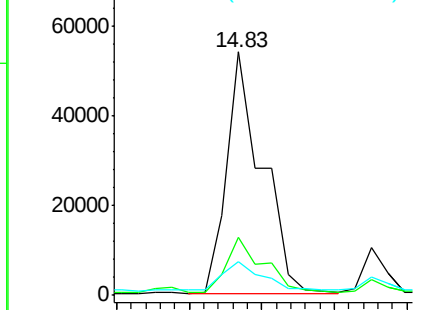
#88
Benzo(k)fluoranthene
Concen: 11.75 ng
RT: 14.83 min Scan# 1159
Delta R.T. -0.06 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 91483
Ion Ratio Lower Upper
252 100
253 23.7 18.0 27.0
125 14.0 11.2 16.8

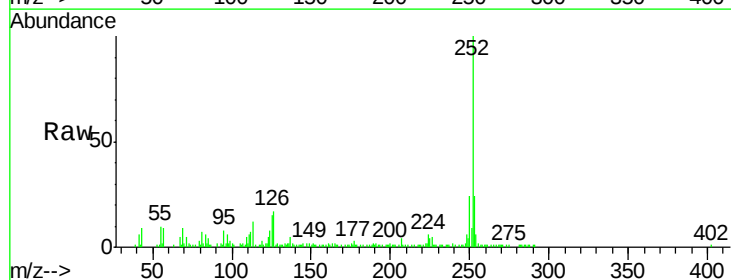


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

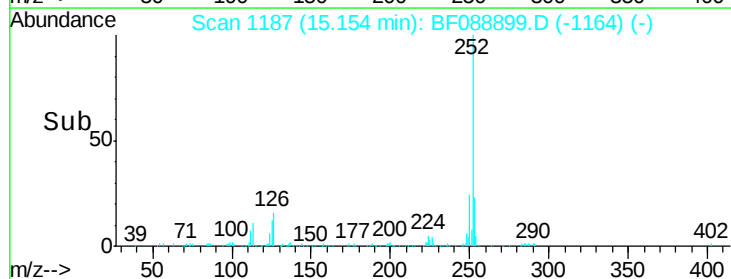
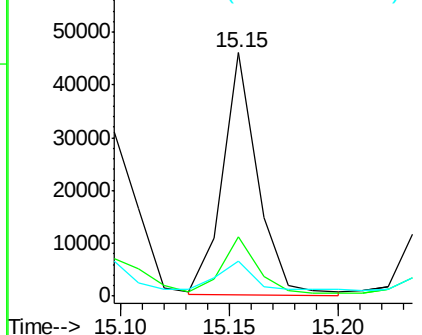


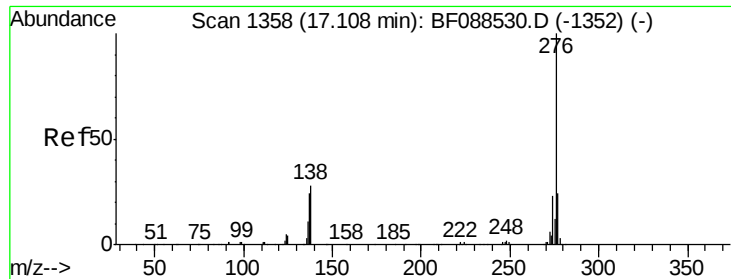
#89
Benzo(a)pyrene
Concen: 6.74 ng
RT: 15.15 min Scan# 1187
Delta R.T. -0.03 min
Lab File: BF088899.D
Acq: 11 Jul 2016 15:05

Tgt Ion:252 Resp: 51018
Ion Ratio Lower Upper
252 100
253 24.3 17.9 26.9
125 14.6 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





#91
 Benzo(a,h,i)perylene
 Concen: 4.60 ng
 RT: 16.88 min Scan# 1338
 Delta R.T. -0.06 min
 Lab File: BF088899.D
 Acq: 11 Jul 2016 15:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.1	18.9	28.3
138	23.3	21.4	32.2

