

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
 Data File : BF089173.D
 Acq On : 21 Jul 2016 11:44
 Operator : UM/SJ
 Sample : H4112-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 21 16:07:22 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 20 19:03:15 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	52000	20.00	ng	0.00
21) Naphthalene-d8	7.88	136	222978	20.00	ng	0.00
38) Acenaphthene-d10	9.62	164	94028	20.00	ng	-0.01
63) Phenanthrene-d10	11.10	188	173854	20.00	ng	-0.01
75) Chrysene-d12	13.73	240	116122	20.00	ng	0.00
86) Perylene-d12	15.06	264	102177	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.19	112	372167	108.85	ng	0.00
7) Phenol-d6	6.26	99	521570	118.29	ng	-0.01
23) Nitrobenzene-d5	7.16	82	311121	74.14	ng	-0.01
41) 2,4,6-Tribromophenol	10.42	330	76667	90.56	ng	0.00
44) 2-Fluorobiphenyl	8.96	172	470908	69.00	ng	-0.01
78) Terphenyl-d14	12.69	244	362936	67.79	ng	0.00

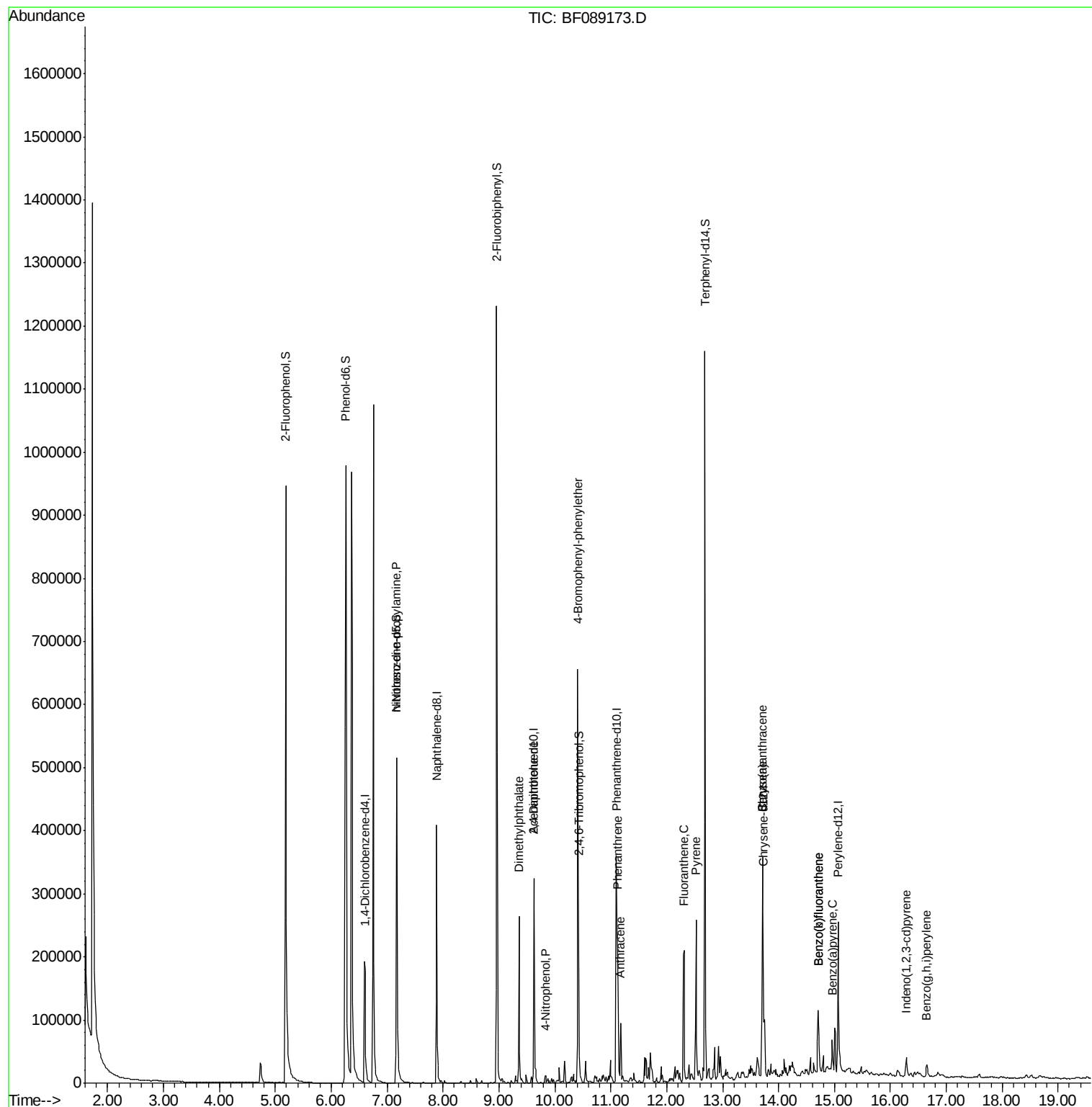
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.26	77	730	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.16	70	40554	14.06	ng	# 84
49) Dimethylphthalate	9.36	163	107849	14.95	ng	99
55) 4-Nitrophenol	9.83	139	2648	2.26	ng	# 4
56) 2,4-Dinitrotoluene	9.62	165	11932	5.69	ng	# 10
66) 4-Bromophenyl-phenylether	10.41	248	5644	3.28	ng	# 1
70) Phenanthrene	11.12	178	110995	11.64	ng	99
71) Anthracene	11.18	178	46129	4.65	ng	99
74) Fluoranthene	12.31	202	132412	13.21	ng	93
77) Pyrene	12.53	202	108434	11.31	ng	98
80) Benzo(a)anthracene	13.71	228	95993	12.98	ng	# 87
82) Chrysene	13.71	228	95993	13.59	ng	# 89
85) Indeno(1,2,3-cd)pyrene	16.29	276	20459	3.99	ng	92
87) Benzo(b)fluoranthene	14.71	252	67323	9.10	ng	97
88) Benzo(k)fluoranthene	14.71	252	67323	12.72	ng	# 96
89) Benzo(a)pyrene	14.96	252	23166	4.03	ng	99
91) Benzo(a,h,i)perylene	16.65	276	16399	3.59	ng	94

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

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089173.D
Acq On : 21 Jul 2016 11:44
Operator : UM/SJ
Sample : H4112-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: Jul 21 16:07:22 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 20 19:03:15 2016
Response via : Initial Calibration



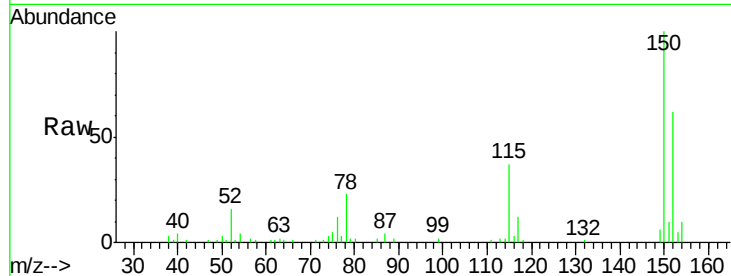


#1

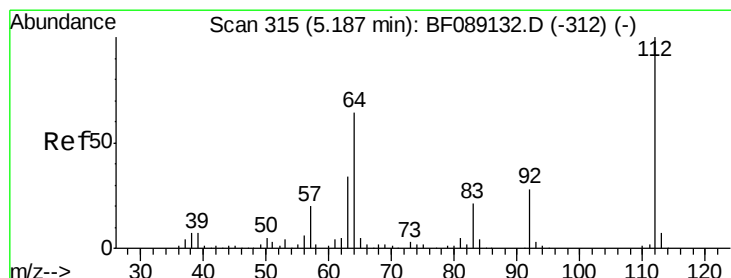
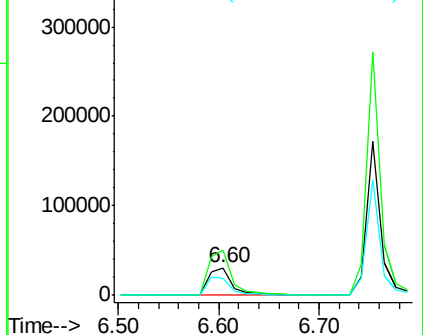
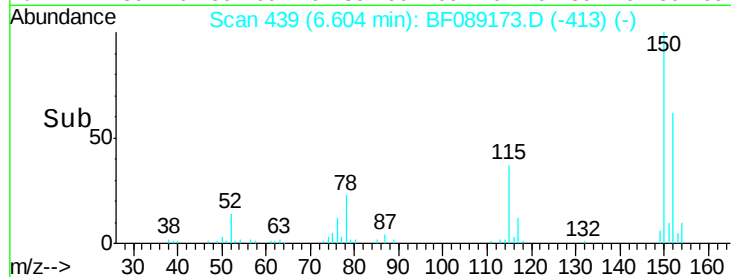
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.60 min Scan# 439
Delta R.T. 0.00 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 52000
Ion Ratio Lower Upper
152 100
150 160.1 125.1 187.7
115 59.6 51.1 76.7



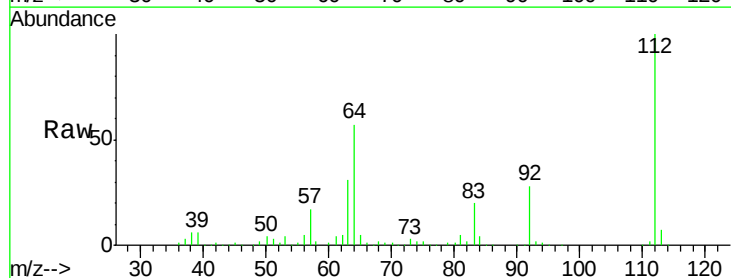
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



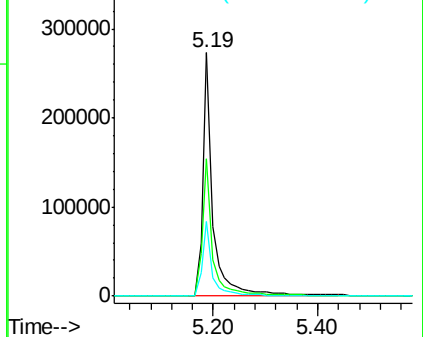
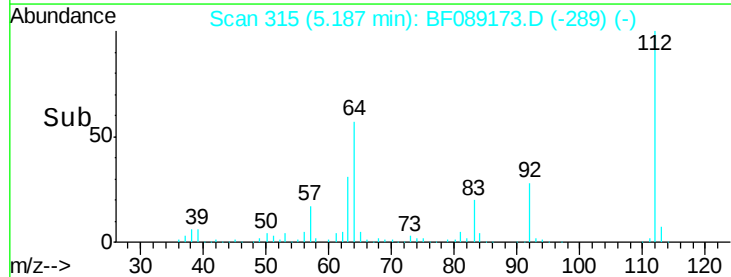
#5

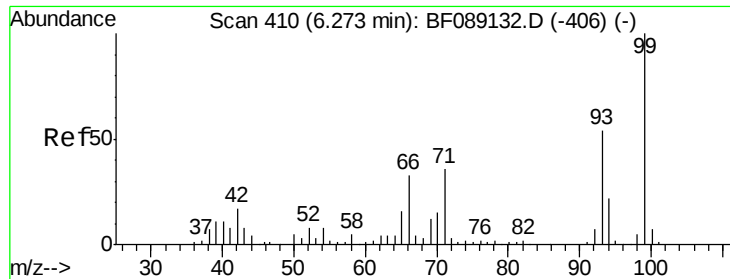
2-Fluorophenol
Concen: 108.85 ng
RT: 5.19 min Scan# 315
Delta R.T. 0.00 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Tgt Ion:112 Resp: 372167
Ion Ratio Lower Upper
112 100
64 56.6 51.0 76.4
63 30.7 27.3 40.9



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: 118.29 ng

RT: 6.26 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF089173.D

Acq: 21 Jul 2016 11:44

Instrument :

BNA_F

ClientSampleId :

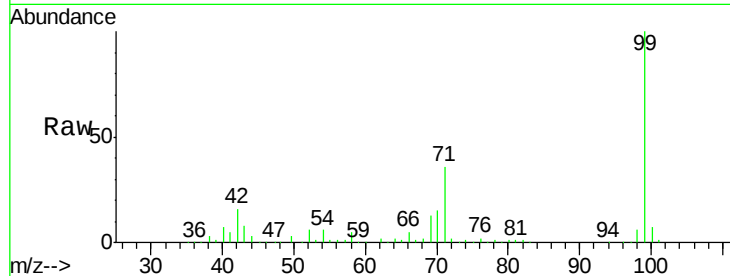
Tot Ion: 99 Resp: 521570

Ion Ratio Lower Upper

99 100

42 16.4 13.5 20.3

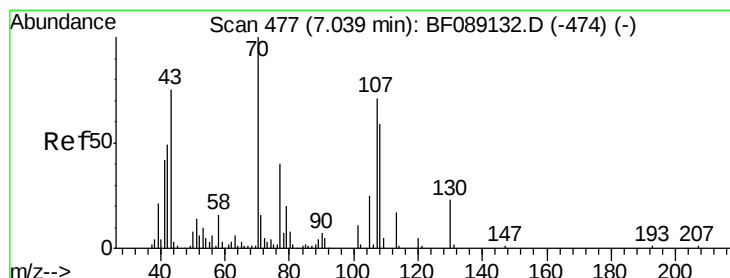
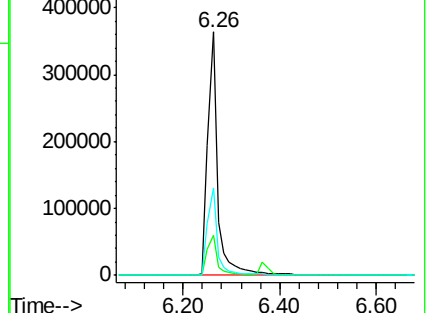
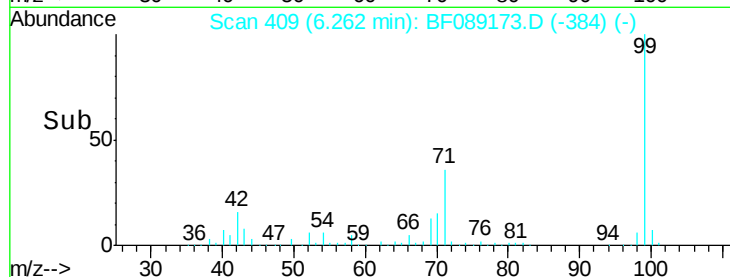
71 36.0 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 14.06 ng

RT: 7.16 min Scan# 488

Delta R.T. 0.13 min

Lab File: BF089173.D

Acq: 21 Jul 2016 11:44

Tgt Ion: 70 Resp: 40554

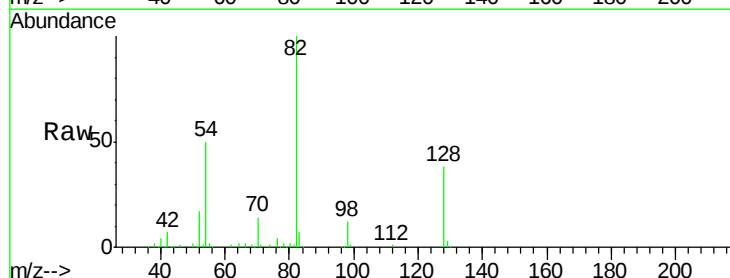
Ion Ratio Lower Upper

70 100

42 48.0 39.2 58.8

101 0.0 8.5 12.7#

130 2.2 18.4 27.6#

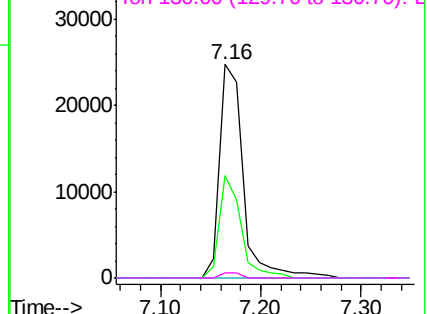
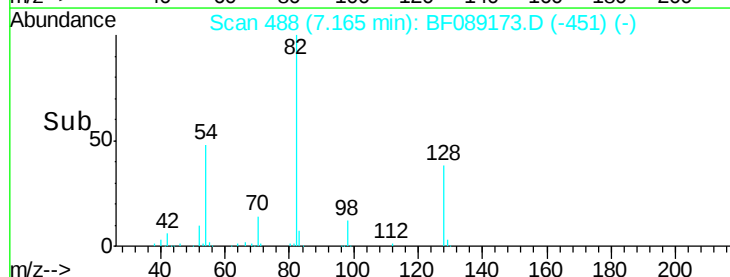


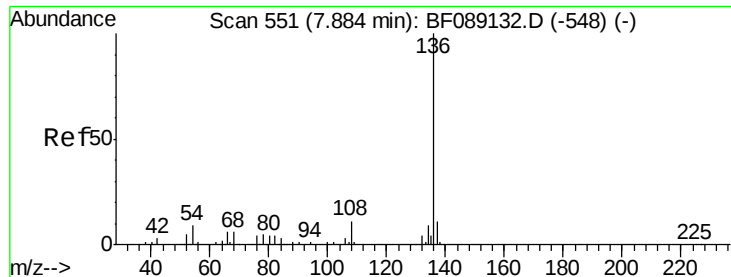
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.88 min Scan# 551

Delta R.T. 0.00 min

Lab File: BF089173.D

Acq: 21 Jul 2016 11:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136 Resp: 222978

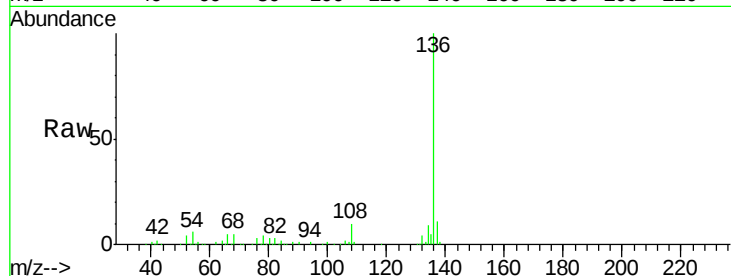
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 6.3 7.0 10.4#

68 4.9 5.0 7.6#

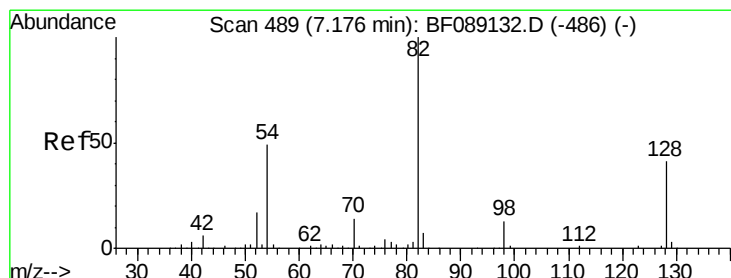
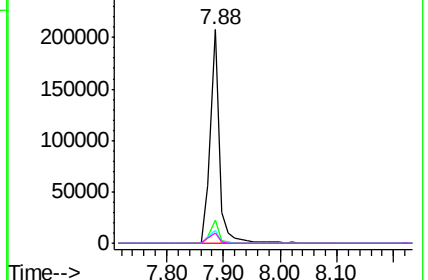
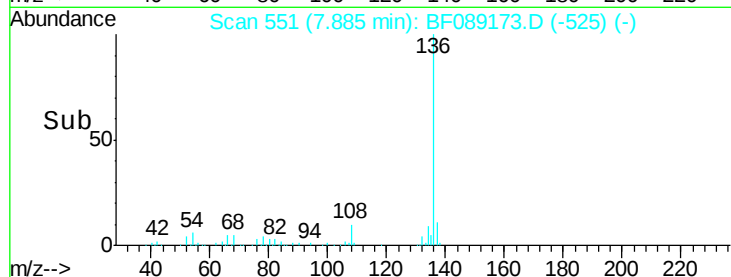


Abundance Ion 136.00 (135.70 to 136.70): E

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: 74.14 ng

RT: 7.16 min Scan# 488

Delta R.T. -0.01 min

Lab File: BF089173.D

Acq: 21 Jul 2016 11:44

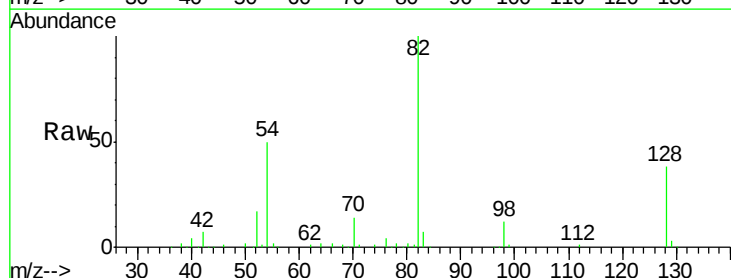
Tgt Ion: 82 Resp: 311121

Ion Ratio Lower Upper

82 100

128 38.3 33.0 49.6

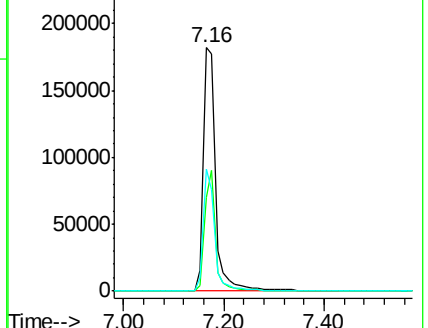
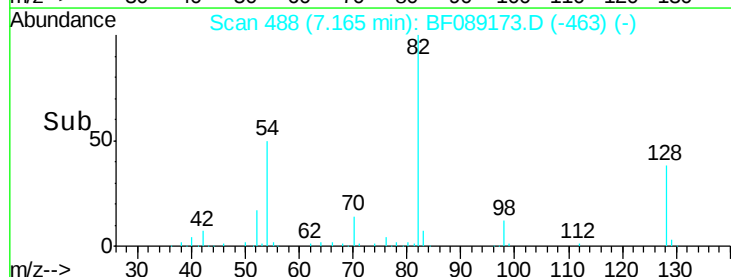
54 50.1 39.0 58.4

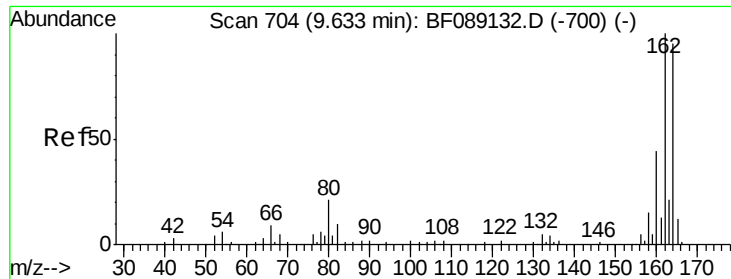


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

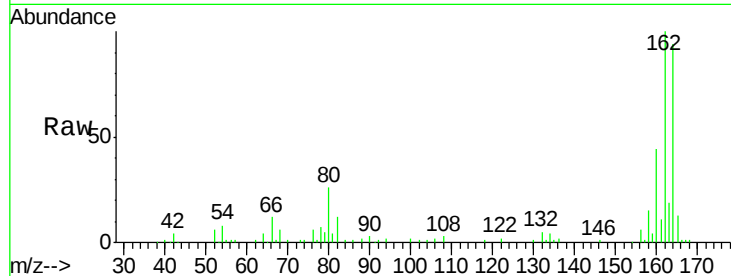




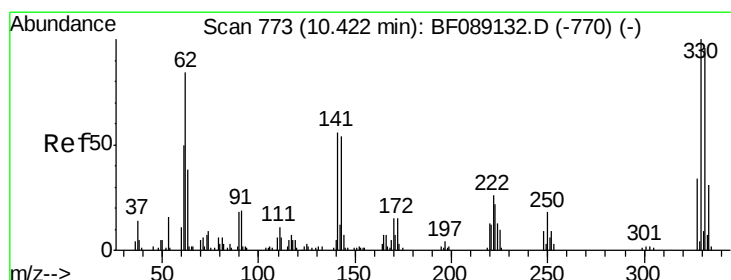
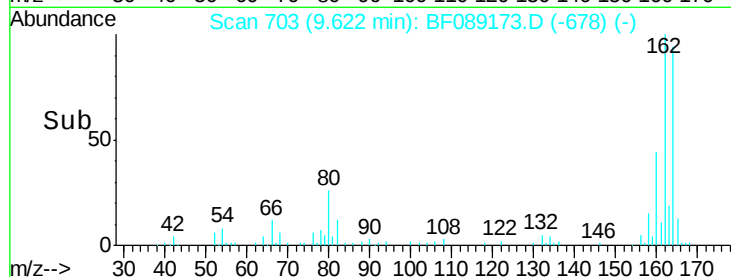
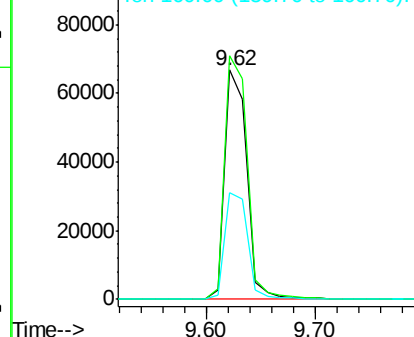
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.62 min Scan# 703
Delta R.T. -0.01 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 94028
Ion Ratio Lower Upper
164 100
162 106.3 84.1 126.1
160 46.3 37.1 55.7

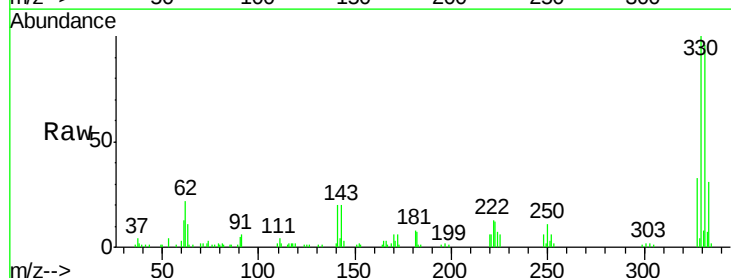


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

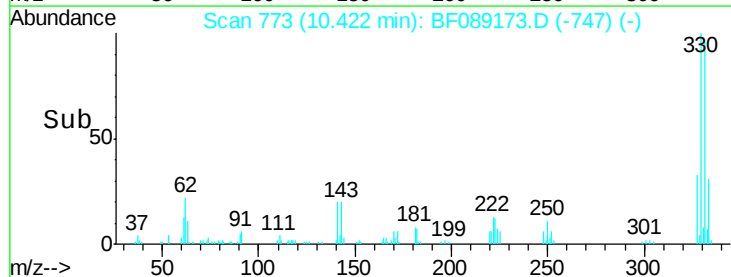
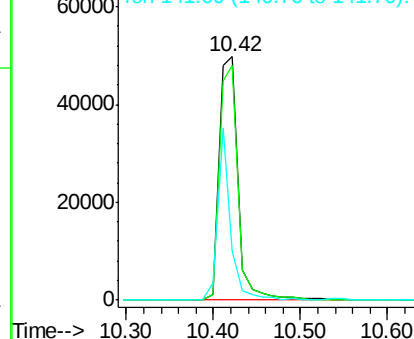


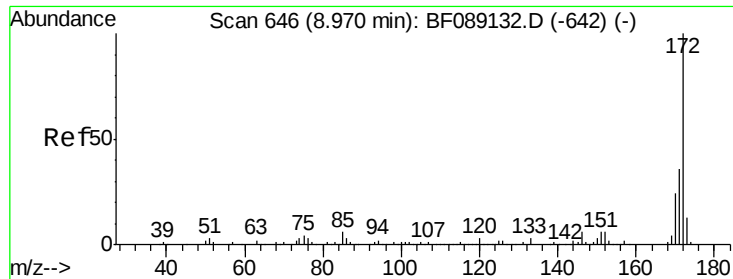
#41
2,4,6-Tribromophenol
Concen: 90.56 ng
RT: 10.42 min Scan# 773
Delta R.T. 0.00 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Tgt Ion:330 Resp: 76667
Ion Ratio Lower Upper
330 100
332 94.8 77.2 115.8
141 47.7 42.2 63.2



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

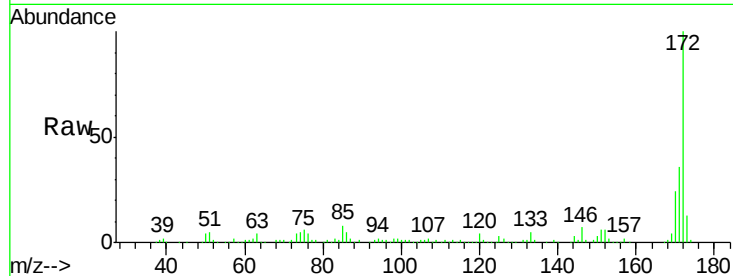




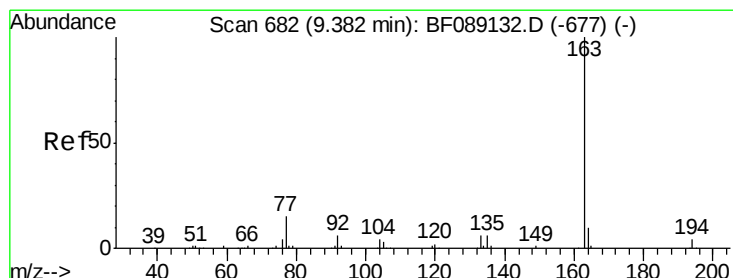
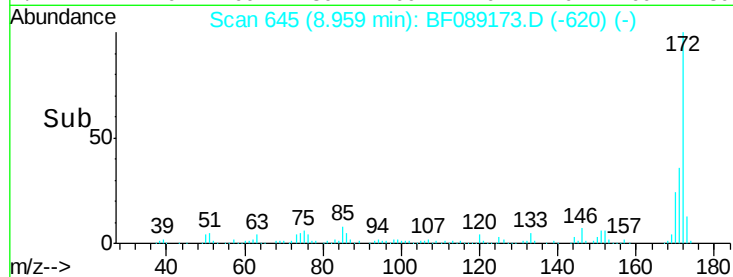
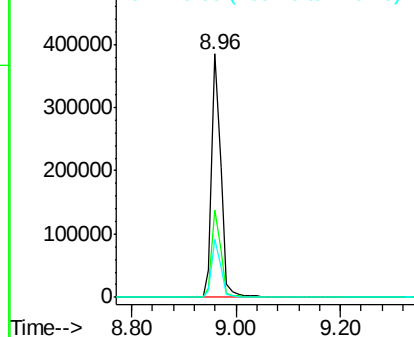
#44
 2-Fluorobiphenyl
 Concen: 69.00 ng
 RT: 8.96 min Scan# 645
 Delta R.T. -0.01 min
 Lab File: BF089173.D
 Acq: 21 Jul 2016 11:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 470908
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.2 43.8
 170 23.8 19.1 28.7

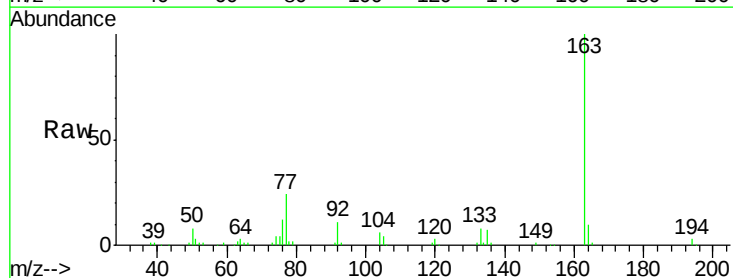


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

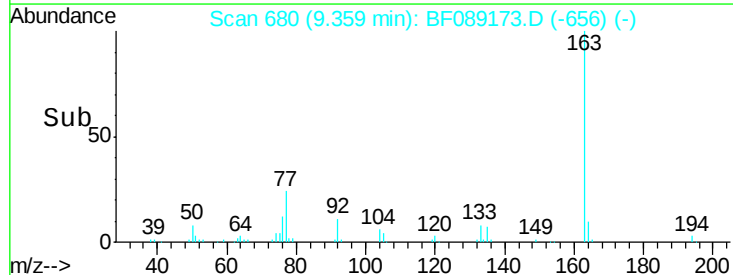
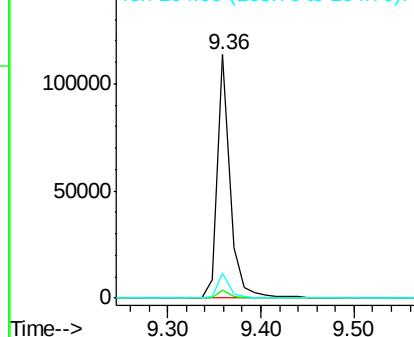


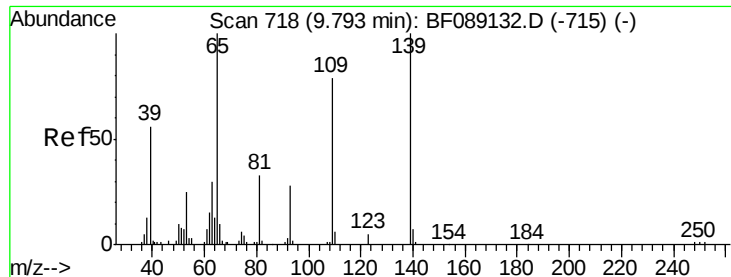
#49
 Dimethylphthalate
 Concen: 14.95 ng
 RT: 9.36 min Scan# 680
 Delta R.T. -0.02 min
 Lab File: BF089173.D
 Acq: 21 Jul 2016 11:44

Tgt Ion:163 Resp: 107849
 Ion Ratio Lower Upper
 163 100
 194 3.4 2.9 4.3
 164 10.1 7.6 11.4



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

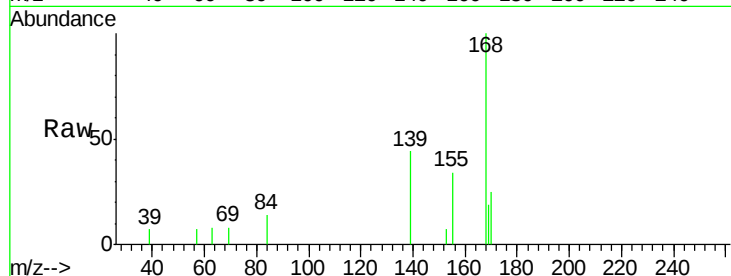




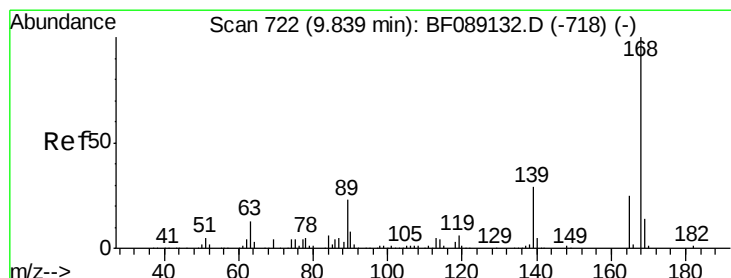
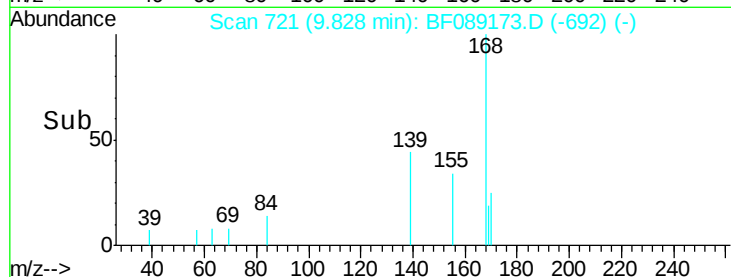
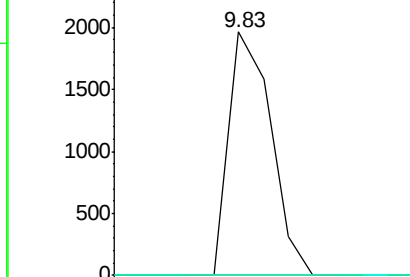
#55
4-Nitrophenol
Concen: 2.26 ng
RT: 9.83 min Scan# 721
Delta R.T. 0.03 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 2648
Ion Ratio Lower Upper
139 100
109 0.0 58.7 98.7#
65 0.0 80.2 120.2#

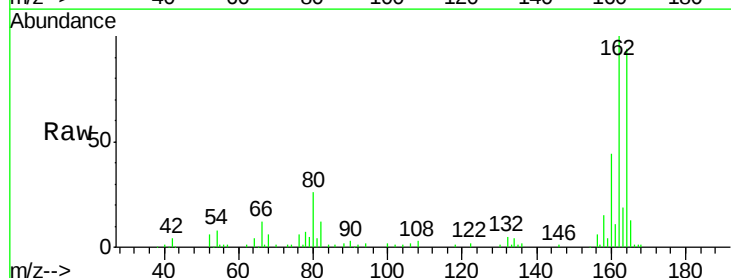


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): E

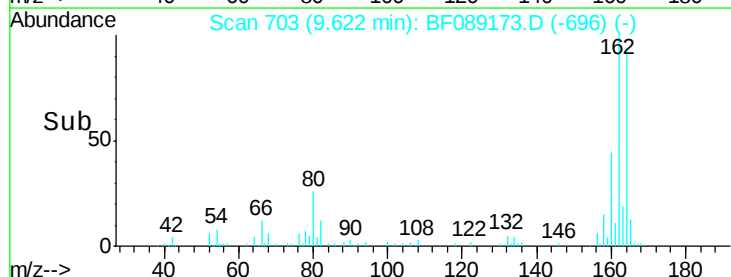
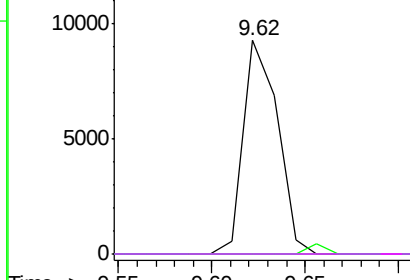


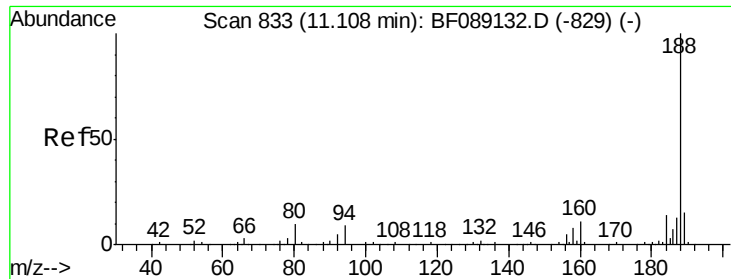
#56
2,4-Dinitrotoluene
Concen: 5.69 ng
RT: 9.62 min Scan# 703
Delta R.T. -0.22 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Tgt Ion:165 Resp: 11932
Ion Ratio Lower Upper
165 100
63 0.0 55.4 83.2#
89 0.0 74.3 111.5#
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

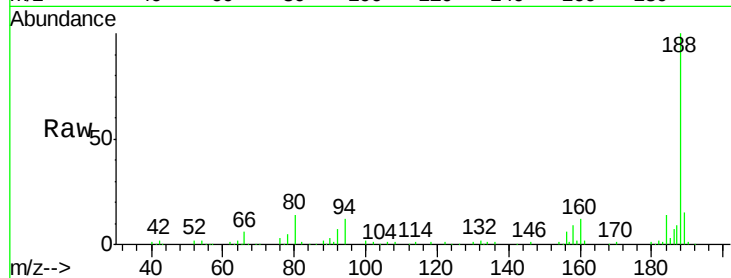




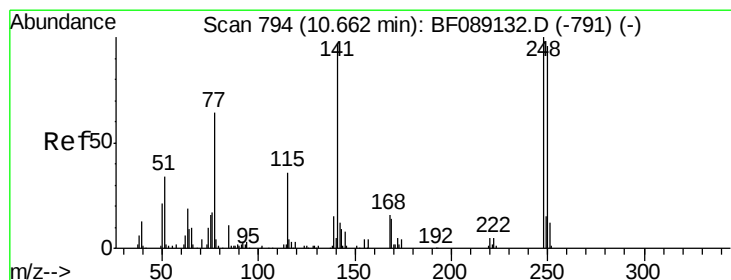
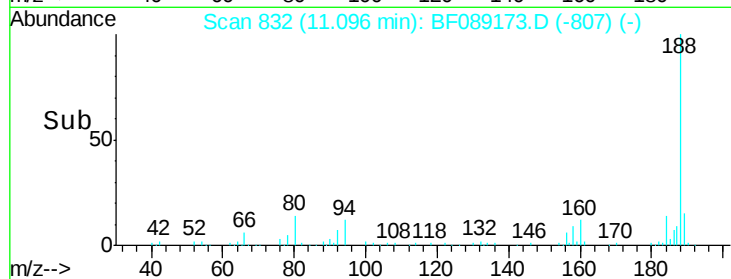
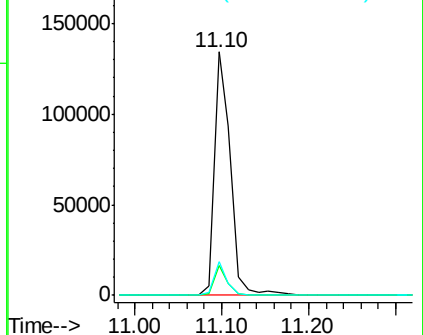
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.10 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: BF089173.D
 Acq: 21 Jul 2016 11:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 173854
 Ion Ratio Lower Upper
 188 100
 94 12.1 7.0 10.4#
 80 14.0 7.7 11.5#

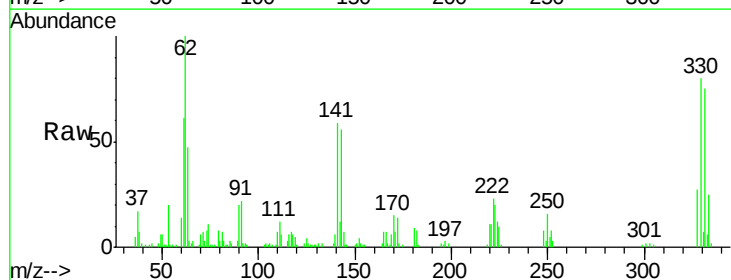


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

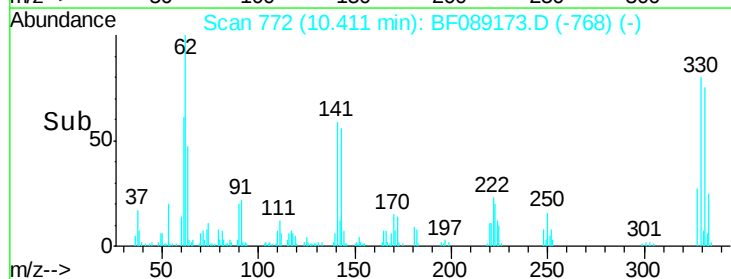
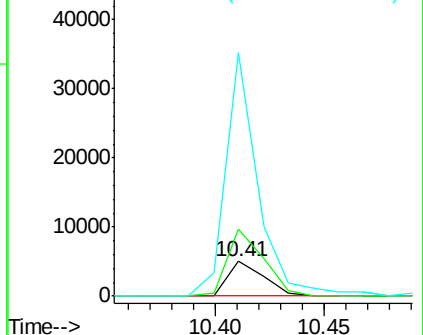


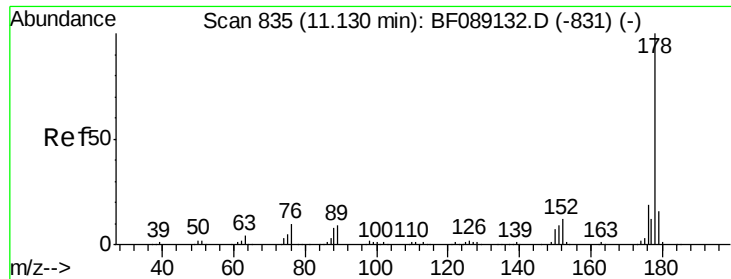
#66
 4-Bromophenyl-phenylether
 Concen: 3.28 ng
 RT: 10.41 min Scan# 772
 Delta R.T. -0.25 min
 Lab File: BF089173.D
 Acq: 21 Jul 2016 11:44

Tgt Ion:248 Resp: 5644
 Ion Ratio Lower Upper
 248 100
 250 192.8 76.9 115.3#
 141 705.9 77.4 116.2#



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

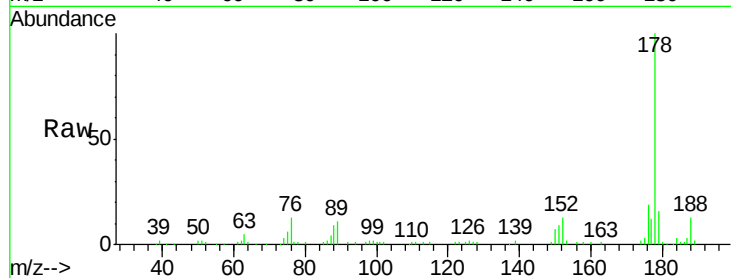




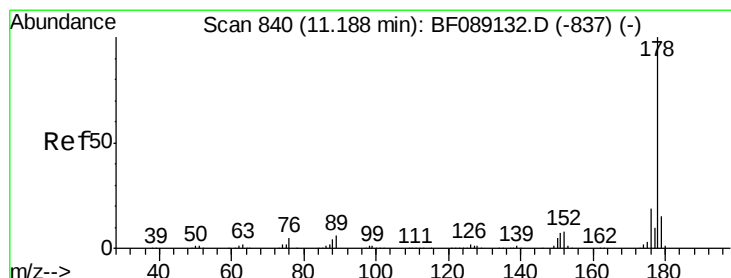
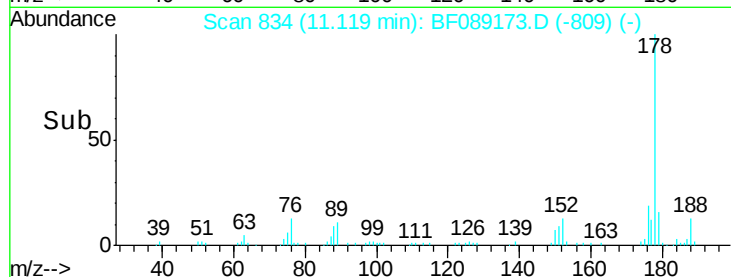
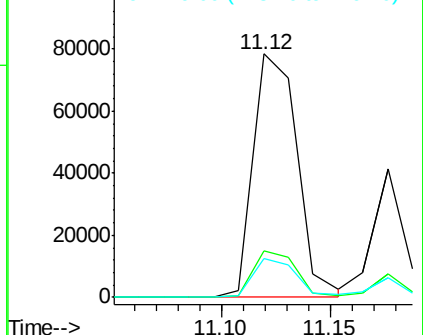
#70
Phenanthrene
Concen: 11.64 ng
RT: 11.12 min Scan# 834
Delta R.T. -0.01 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 110995
Ion Ratio Lower Upper
178 100
176 19.1 15.6 23.4
179 15.8 12.4 18.6

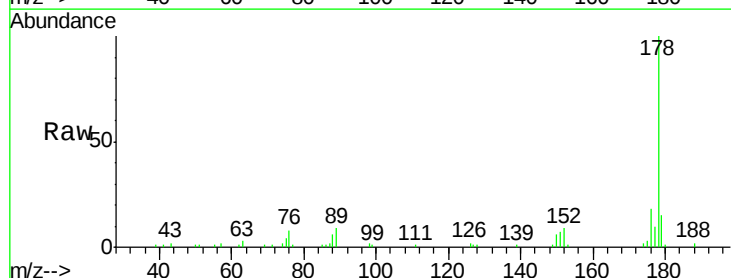


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

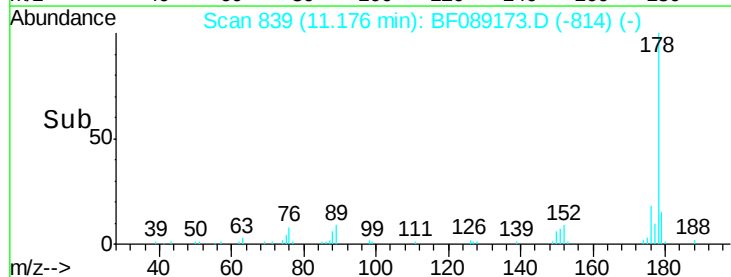
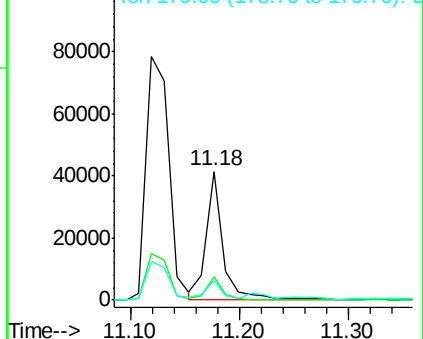


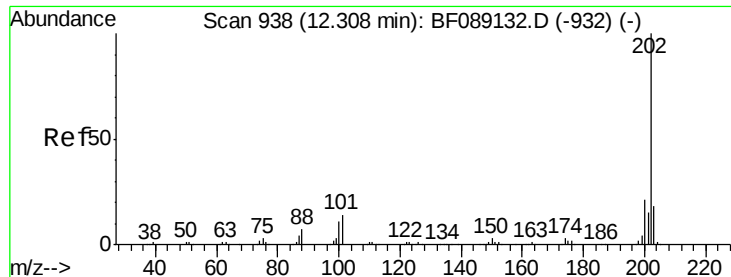
#71
Anthracene
Concen: 4.65 ng
RT: 11.18 min Scan# 839
Delta R.T. -0.01 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Tgt Ion:178 Resp: 46129
Ion Ratio Lower Upper
178 100
176 17.9 14.9 22.3
179 14.9 12.0 18.0



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: 13.21 ng

RT: 12.31 min Scan# 938

Delta R.T. 0.00 min

Lab File: BF089173.D

Acq: 21 Jul 2016 11:44

Instrument :

BNA_F

ClientSampleId :

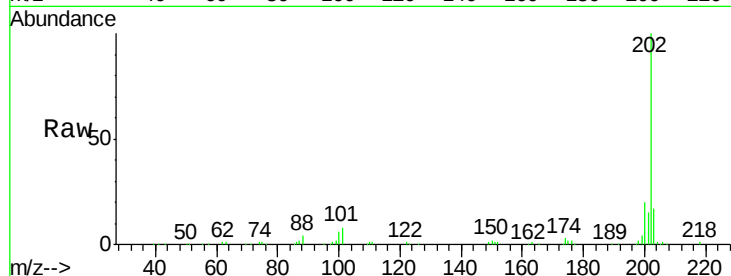
Tot Ion:202 Resp: 132412

Ion Ratio Lower Upper

202 100

101 8.4 0.0 34.0

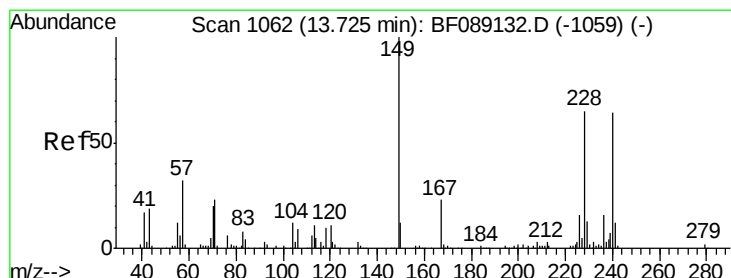
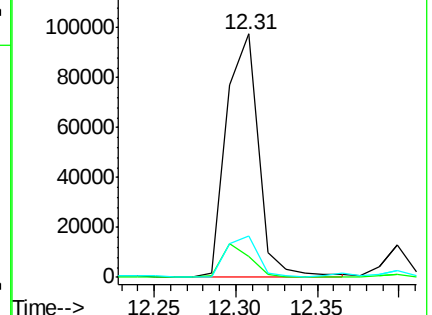
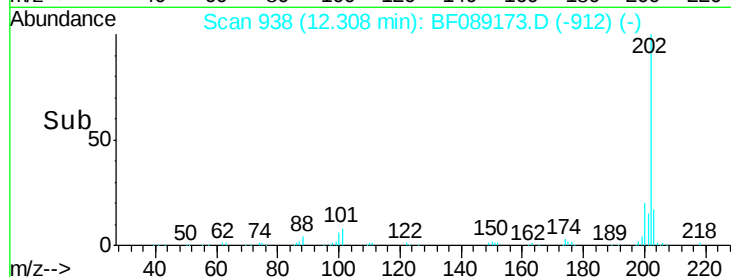
203 17.2 0.0 37.8



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: 13.73 min Scan# 1062

Delta R.T. 0.00 min

Lab File: BF089173.D

Acq: 21 Jul 2016 11:44

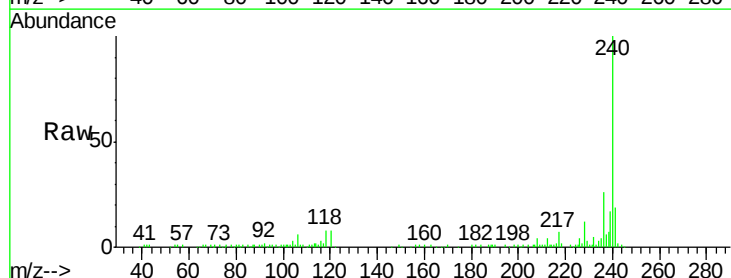
Tgt Ion:240 Resp: 116122

Ion Ratio Lower Upper

240 100

120 7.7 13.6 20.4#

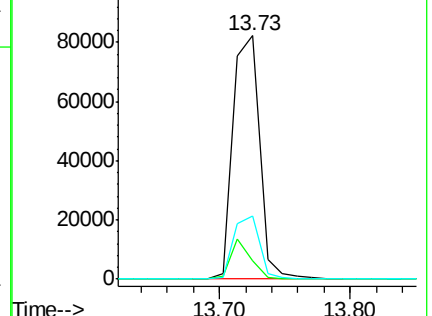
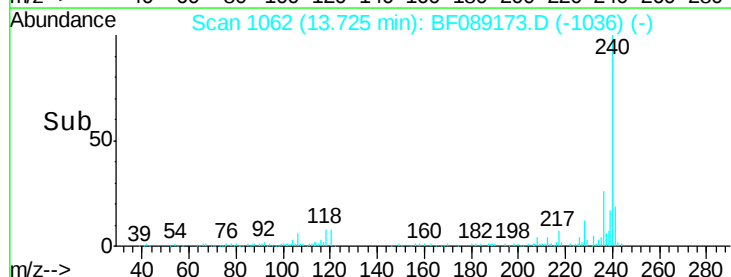
236 25.8 20.5 30.7

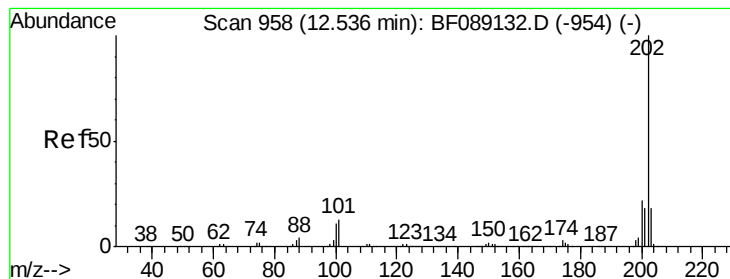


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 11.31 ng

RT: 12.53 min Scan# 957

Delta R.T. -0.01 min

Lab File: BF089173.D

Acq: 21 Jul 2016 11:44

Instrument :

BNA_F

ClientSampleId :

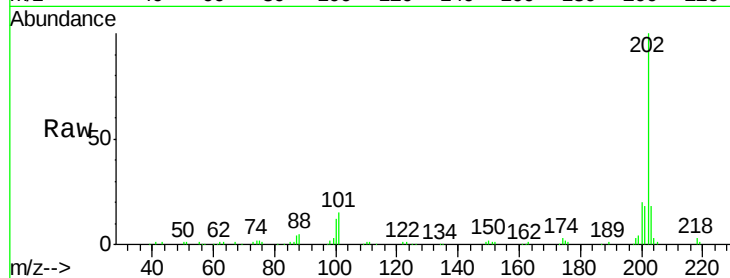
Tot Ion:202 Resp: 108434

Ion Ratio Lower Upper

202 100

200 20.3 17.4 26.0

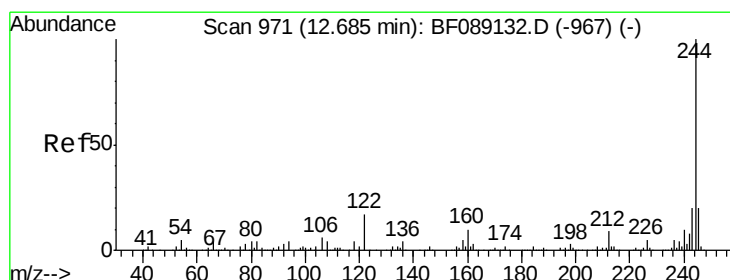
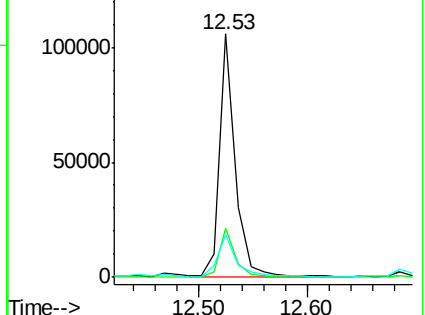
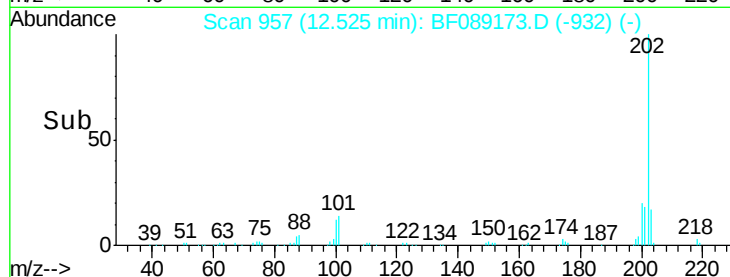
203 17.7 14.2 21.2



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: 67.79 ng

RT: 12.69 min Scan# 971

Delta R.T. 0.00 min

Lab File: BF089173.D

Acq: 21 Jul 2016 11:44

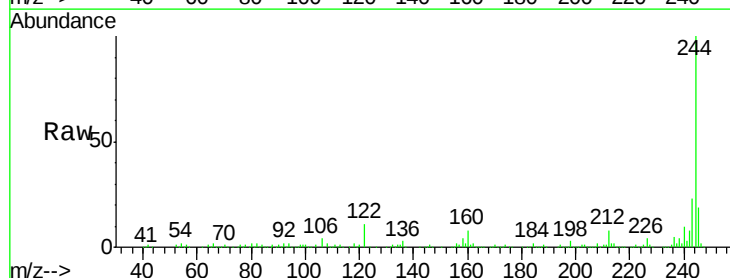
Tgt Ion:244 Resp: 362936

Ion Ratio Lower Upper

244 100

212 7.8 7.0 10.4

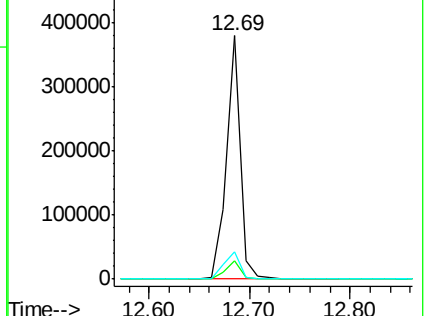
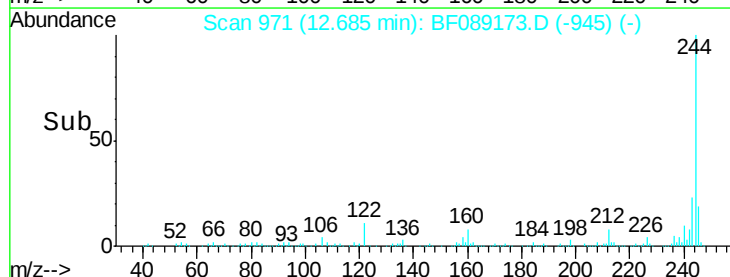
122 11.2 13.8 20.8#

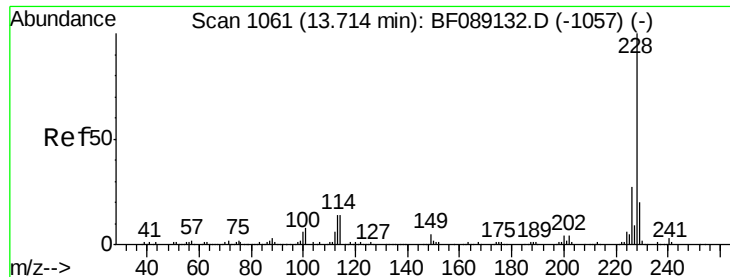


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

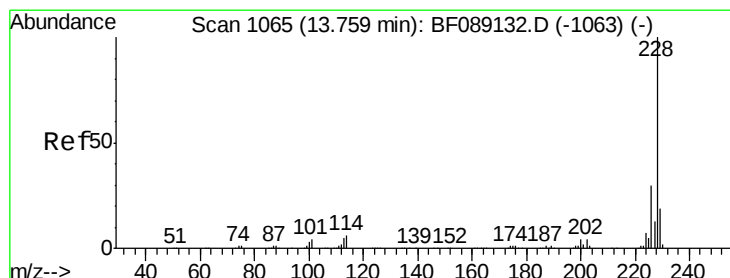
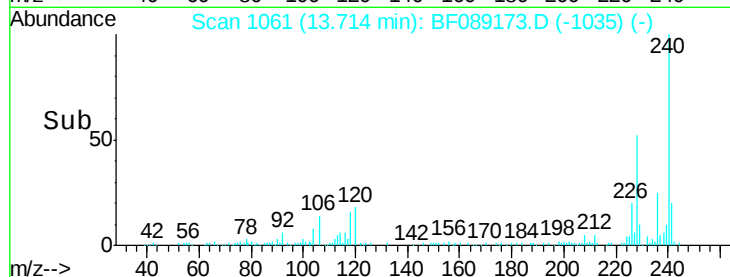
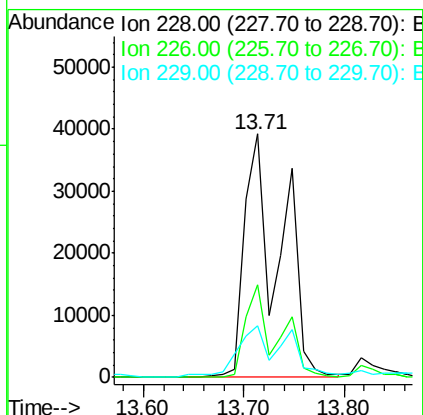
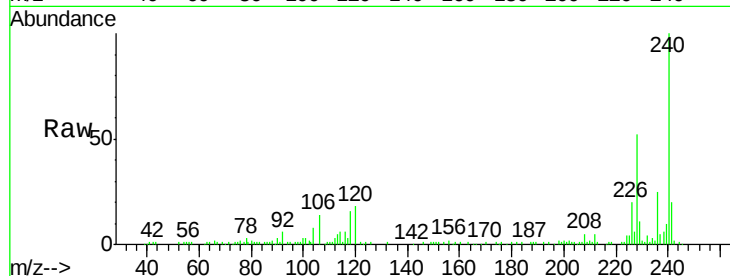




#80
Benzo(a)anthracene
Concen: 12.98 ng
RT: 13.71 min Scan# 1061
Delta R.T. 0.00 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

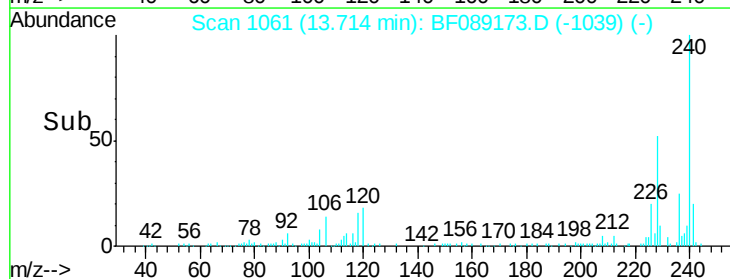
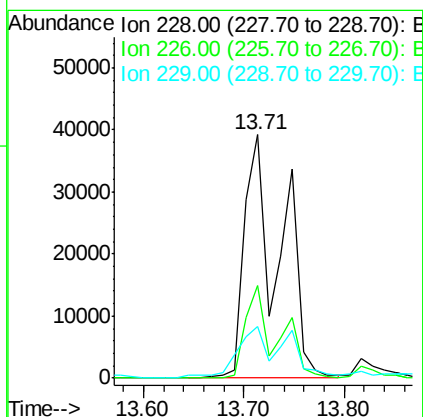
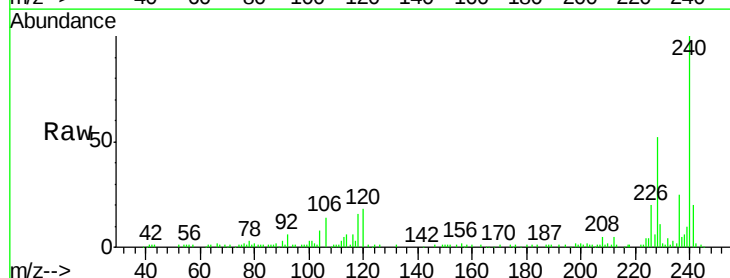
Instrument :
BNA_F
ClientSampleId :

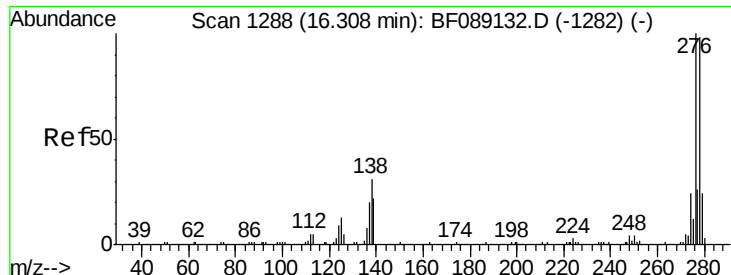
Tot Ion:228 Resp: 95993
Ion Ratio Lower Upper
228 100
226 38.0 21.8 32.8#
229 21.1 15.8 23.8



#82
Chrysene
Concen: 13.59 ng
RT: 13.71 min Scan# 1061
Delta R.T. -0.05 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Tgt Ion:228 Resp: 95993
Ion Ratio Lower Upper
228 100
226 38.0 23.8 35.8#
229 21.1 15.4 23.0

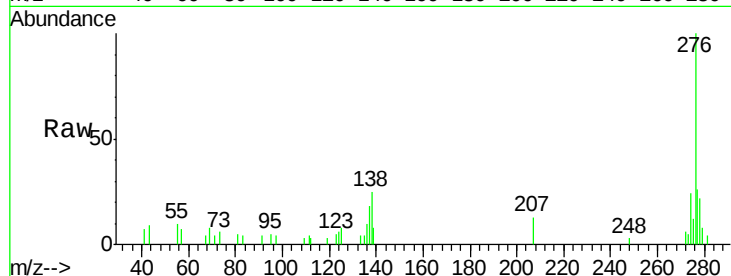




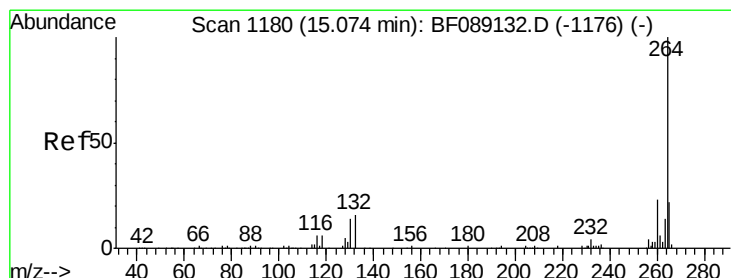
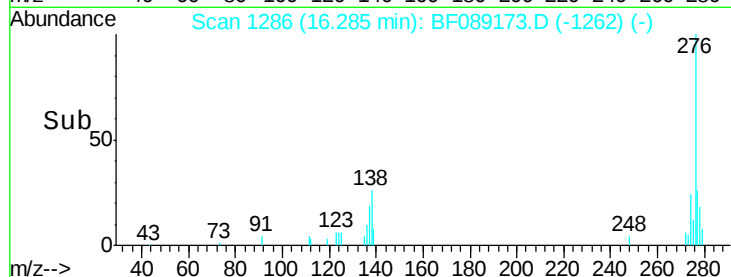
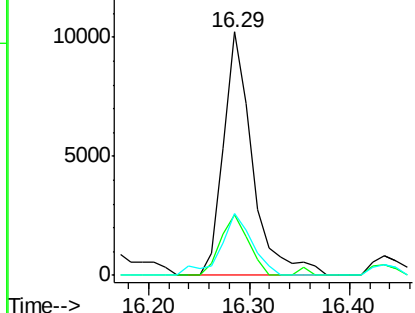
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.99 ng
RT: 16.29 min Scan# 1286
Delta R.T. -0.02 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Instrument :
BNA_F
ClientSampled :

Tot Ion:276 Resp: 20459
Ion Ratio Lower Upper
276 100
138 23.8 23.7 35.5
277 27.8 20.6 31.0

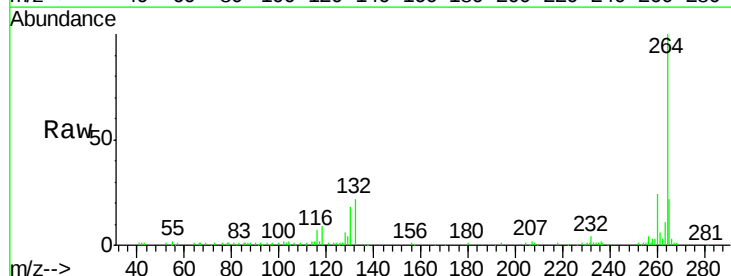


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

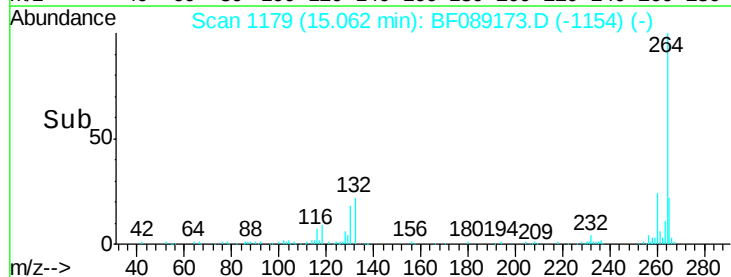
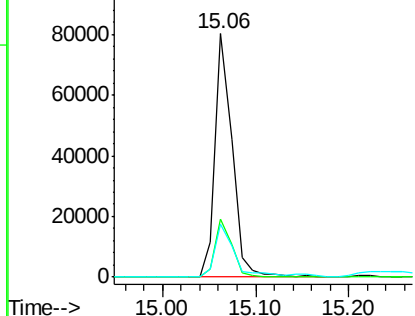


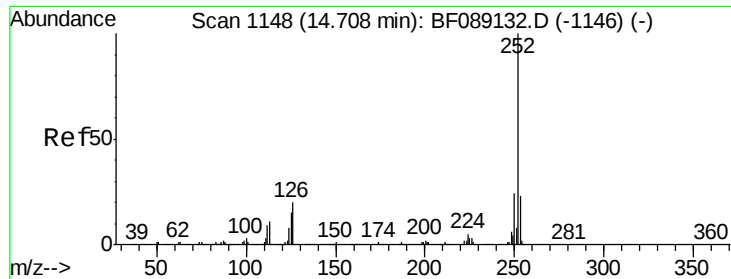
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.06 min Scan# 1179
Delta R.T. -0.01 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Tgt Ion:264 Resp: 102177
Ion Ratio Lower Upper
264 100
260 23.6 18.5 27.7
265 21.8 17.3 25.9



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

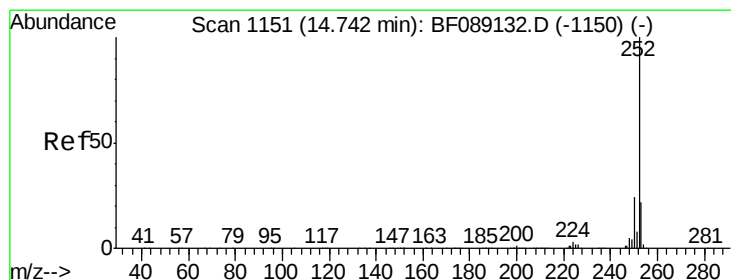
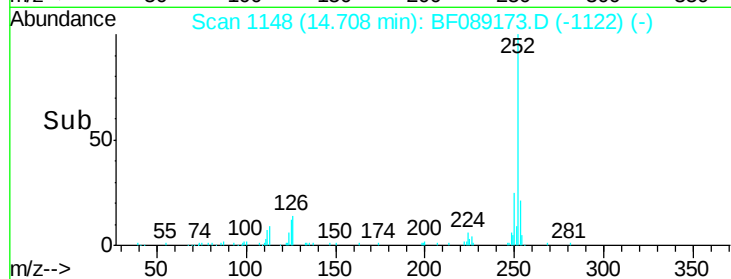
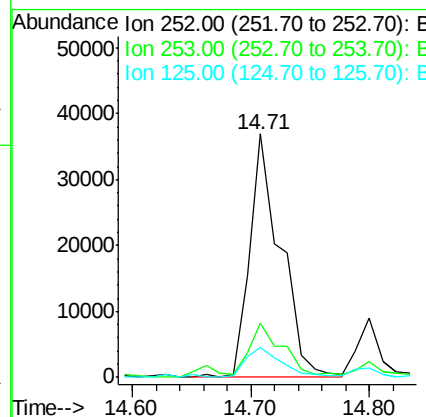
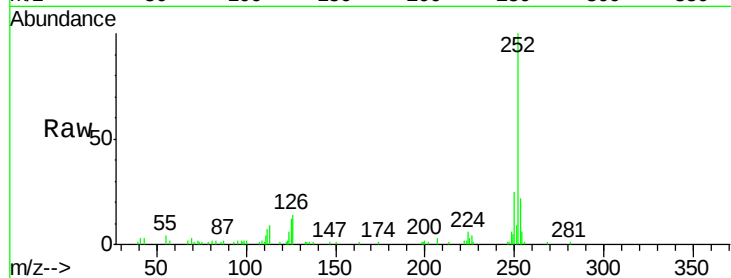




#87
Benzo(b)fluoranthene
Concen: 9.10 ng
RT: 14.71 min Scan# 1148
Delta R.T. 0.00 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

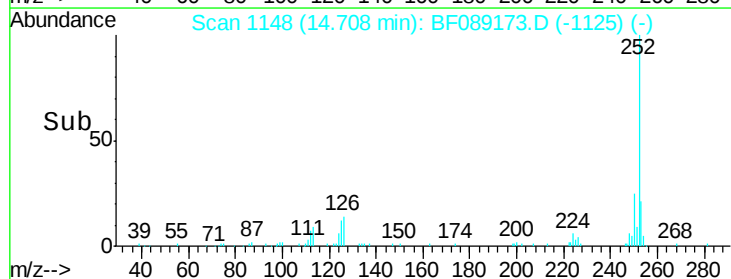
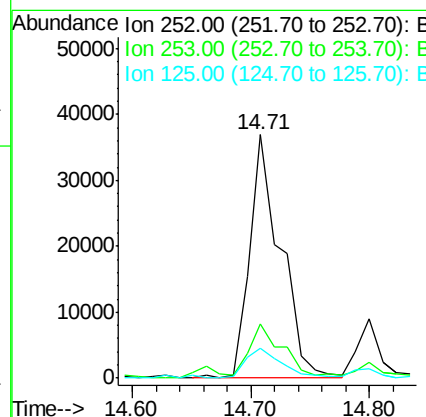
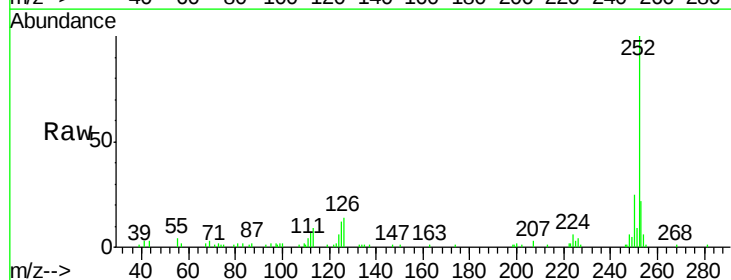
Instrument :
BNA_F
ClientSampleId :

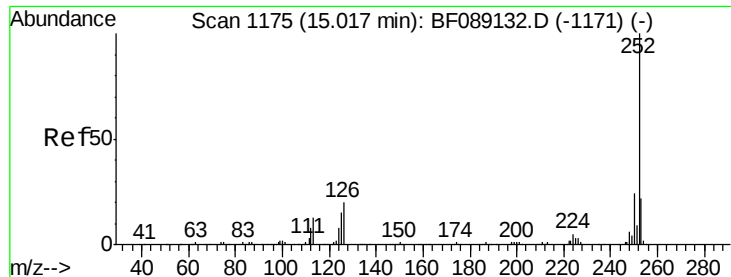
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.2
125	12.4	11.9	17.9



#88
Benzo(k)fluoranthene
Concen: 12.72 ng
RT: 14.71 min Scan# 1148
Delta R.T. -0.03 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.3	25.9
125	12.4	6.3	9.5#

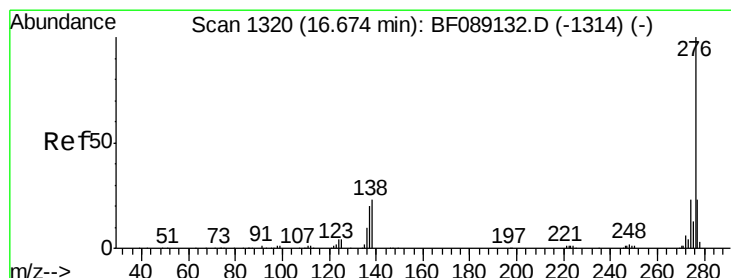
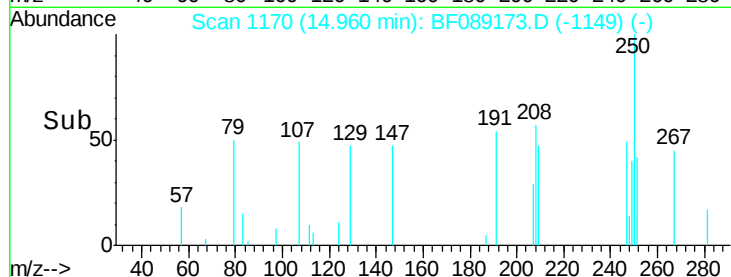
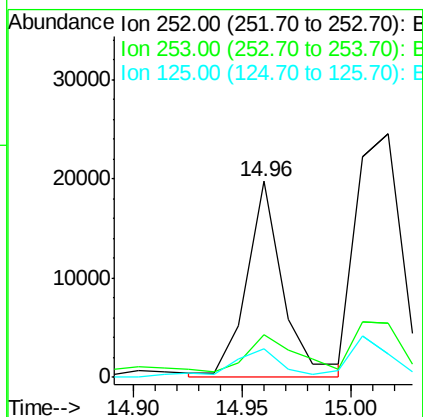
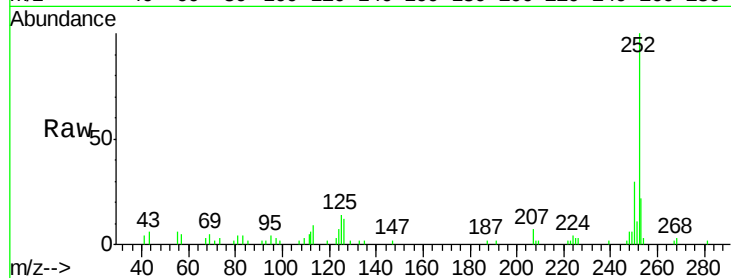




#89
Benzo(a)pyrene
Concen: 4.03 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.06 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 23166
Ion Ratio Lower Upper
252 100
253 21.7 17.4 26.0
125 14.5 12.4 18.6



#91
Benzo(g,h,i)perylene
Concen: 3.59 ng
RT: 16.65 min Scan# 1318
Delta R.T. -0.02 min
Lab File: BF089173.D
Acq: 21 Jul 2016 11:44

Tgt Ion:276 Resp: 16399
Ion Ratio Lower Upper
276 100
277 26.0 18.5 27.7
138 25.5 18.5 27.7

