

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072216\
 Data File : BF089193.D
 Acq On : 22 Jul 2016 13:10
 Operator : UM/SJ
 Sample : H4074-08DL 10X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-10-COMPDL

Quant Time: Jul 25 00:49:50 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	6.59	152	50341	20.00	ng	-0.01
21) Naphthalene-d8	7.87	136	221416	20.00	ng	-0.01
38) Acenaphthene-d10	9.62	164	90444	20.00	ng	-0.01
63) Phenanthrene-d10	11.10	188	147530	20.00	ng	-0.01
75) Chrysene-d12	13.71	240	98451	20.00	ng	-0.01
86) Perylene-d12	15.06	264	113841	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.18	112	27492	8.31	ng	-0.01
7) Phenol-d6	6.25	99	40886	9.58	ng	-0.02
23) Nitrobenzene-d5	7.15	82	24886	5.97	ng	-0.02
41) 2,4,6-Tribromophenol	10.40	330	5328	6.54	ng	-0.02
44) 2-Fluorobiphenyl	8.95	172	38785	5.91	ng	-0.02
78) Terphenyl-d14	12.67	244	19323	4.26	ng	-0.01

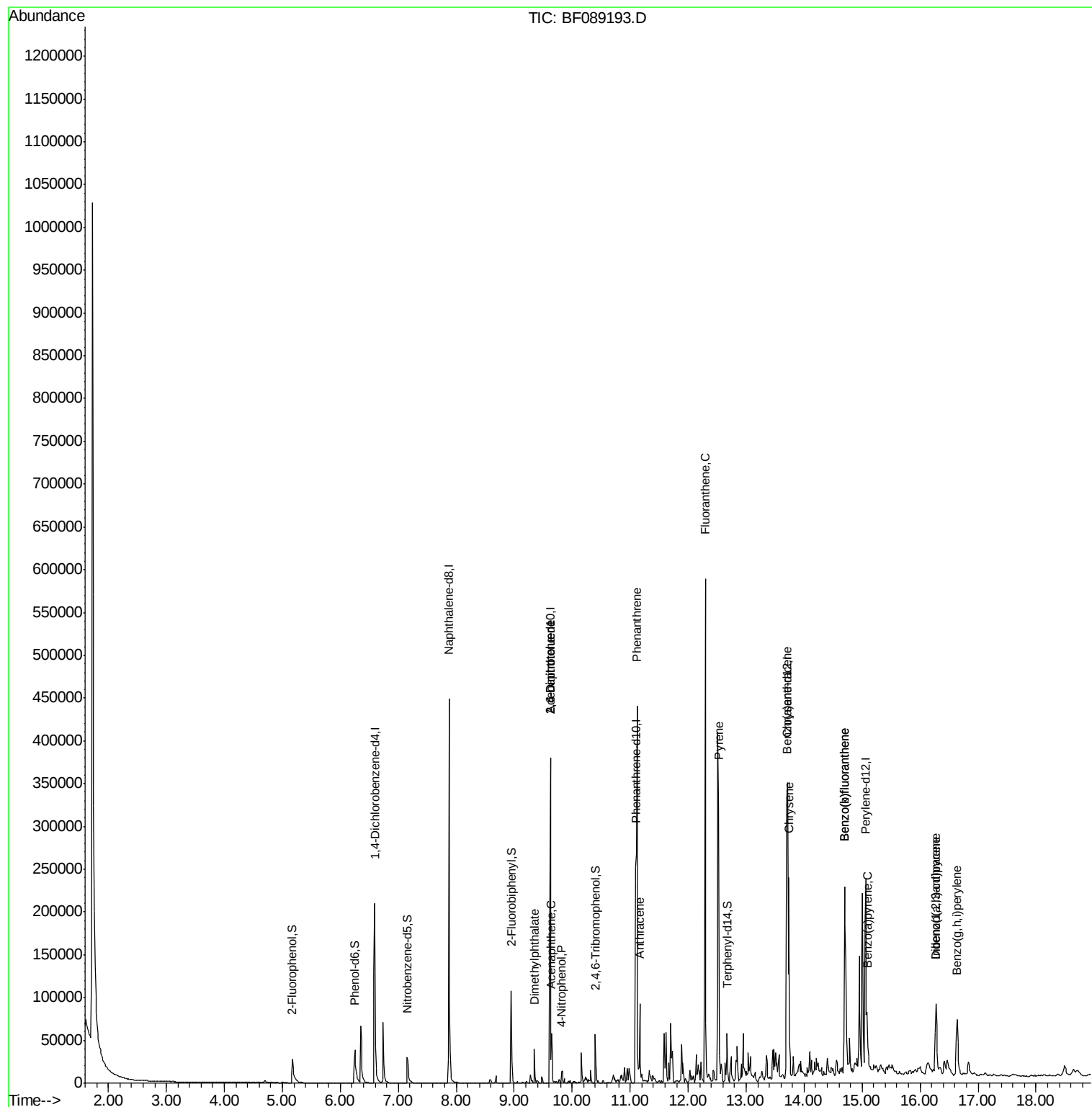
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.35	77	604	Below Cal		# 70
49) Dimethylphthalate	9.35	163	17268	2.49	ng	98
50) 2,6-Dinitrotoluene	9.62	165	11266	7.19	ng	# 28
51) Acenaphthene	9.64	154	13950	2.42	ng	96
55) 4-Nitrophenol	9.82	139	3843	3.41	ng	# 4
56) 2,4-Dinitrotoluene	9.62	165	11266	5.58	ng	# 10
70) Phenanthrene	11.12	178	210891	26.06	ng	99
71) Anthracene	11.16	178	46545	5.53	ng	98
74) Fluoranthene	12.30	202	253898	29.85	ng	96
77) Pyrene	12.53	202	229262	28.20	ng	98
80) Benzo(a)anthracene	13.70	228	108959	17.38	ng	99
82) Chrysene	13.74	228	75321	12.58	ng	97
85) Indeno(1,2,3-cd)pyrene	16.27	276	57909	13.31	ng	95
87) Benzo(b)fluoranthene	14.70	252	153249	18.59	ng	100
88) Benzo(k)fluoranthene	14.70	252	153249	25.99	ng	# 94
89) Benzo(a)pyrene	15.09	252	28001	4.37	ng	95
90) Dibenzo(a,h)anthracene	16.27	278	18281	3.62	ng	# 85
91) Benzo(g,h,i)perylene	16.64	276	52134	10.23	ng	96

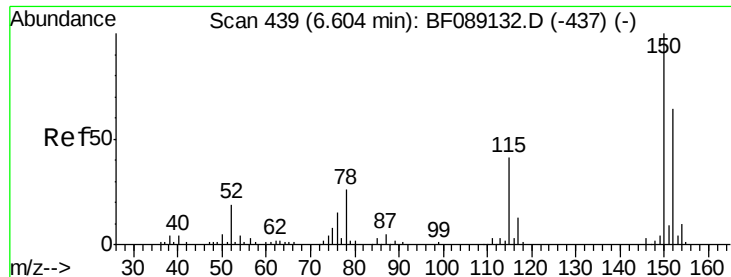
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

Instrument :

BNA_F

ClientSampleId :

SB-10-COMPDL

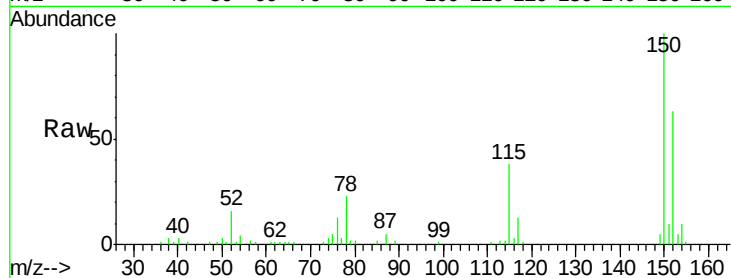
Tgt Ion:152 Resp: 50341

Ion Ratio Lower Upper

152 100

150 157.7 125.1 187.7

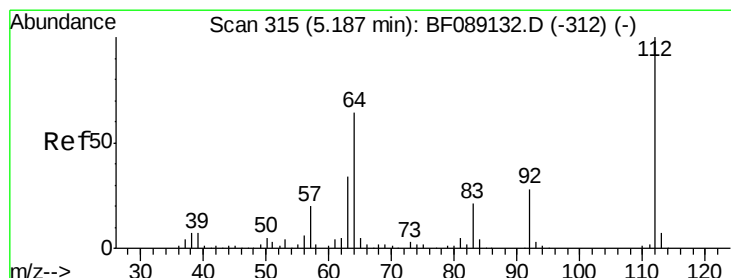
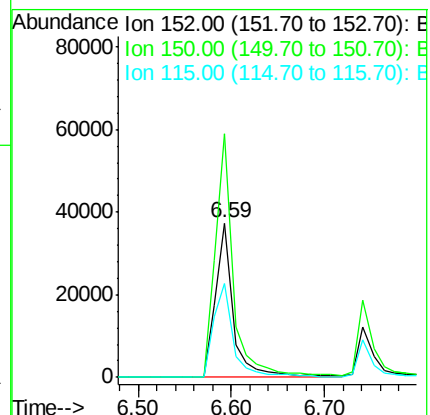
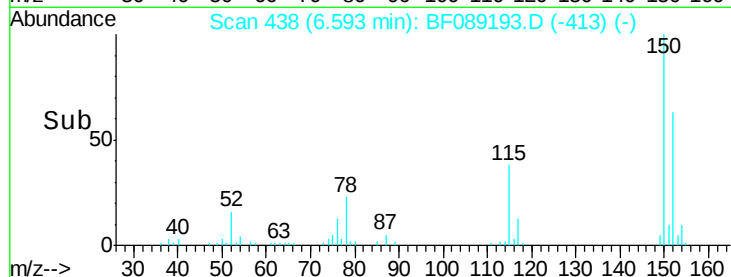
115 60.7 51.1 76.7



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: 8.31 ng

RT: 5.18 min Scan# 314

Delta R.T. -0.01 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

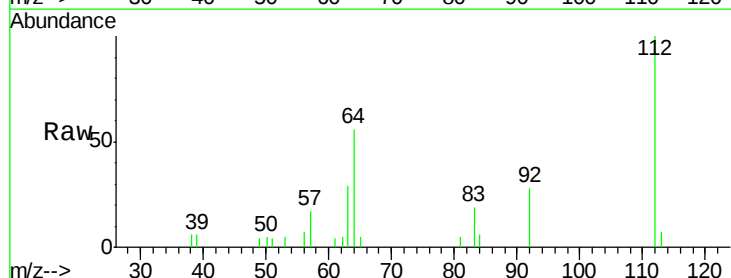
Tgt Ion:112 Resp: 27492

Ion Ratio Lower Upper

112 100

64 56.1 51.0 76.4

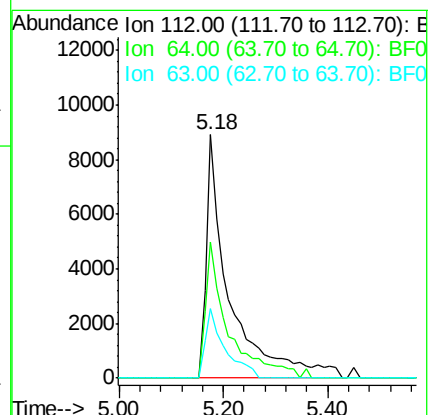
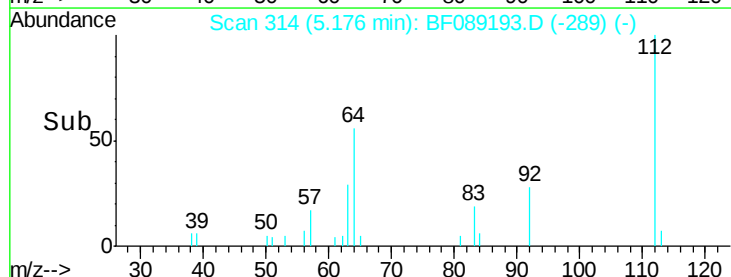
63 28.6 27.3 40.9

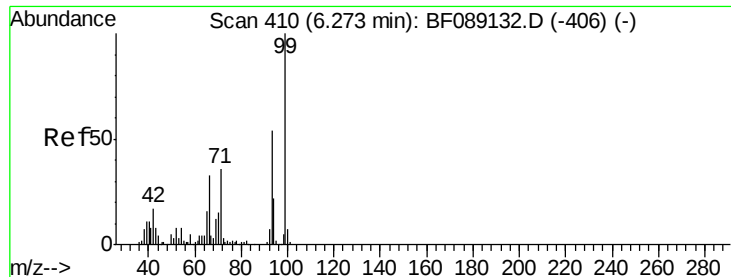


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 9.58 ng

RT: 6.25 min Scan# 408

Delta R.T. -0.02 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

Instrument :

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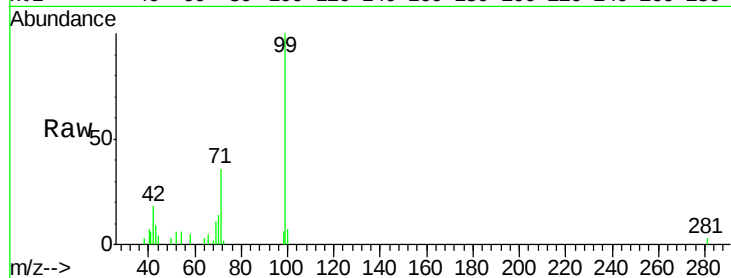
Tgt Ion: 99 Resp: 40886

Ion Ratio Lower Upper

99 100

42 17.9 13.5 20.3

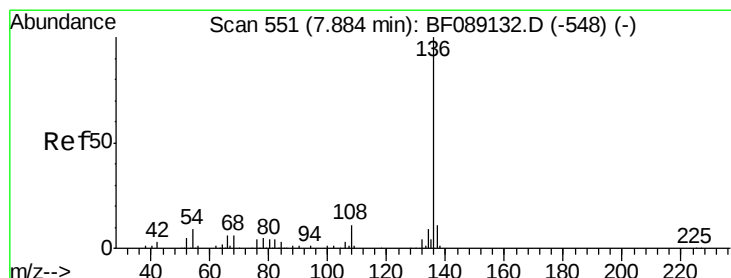
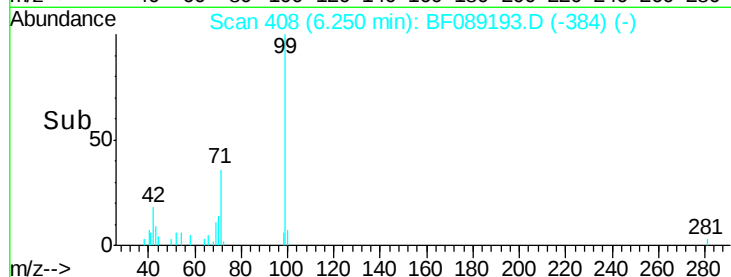
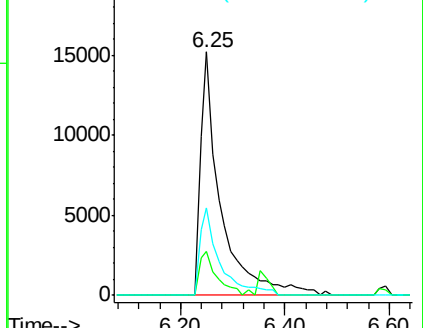
71 35.7 28.9 43.3



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.87 min Scan# 550

Delta R.T. -0.01 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

Tgt Ion: 136 Resp: 221416

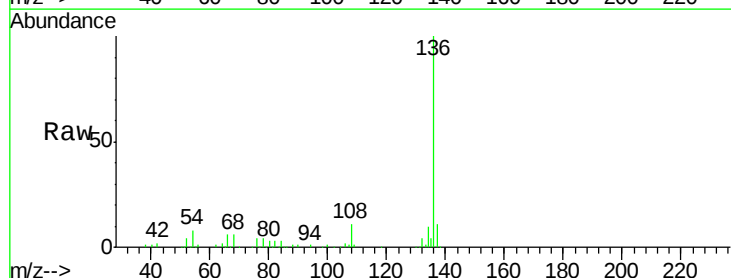
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 7.7 7.0 10.4

68 5.9 5.0 7.6

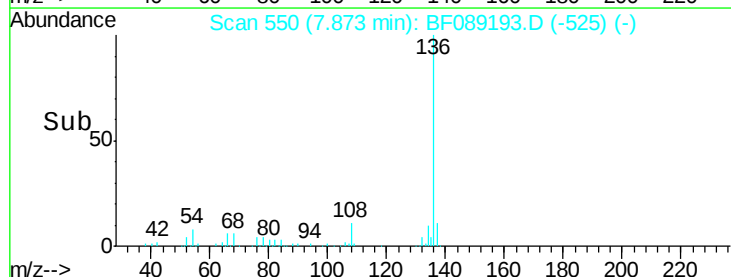
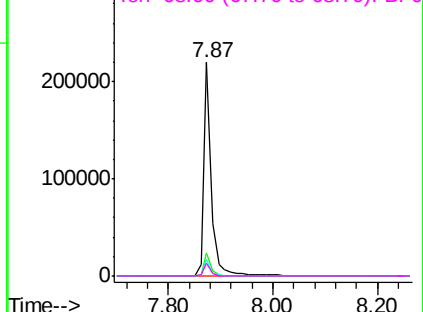


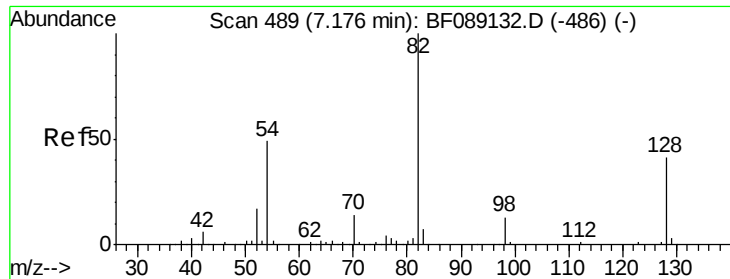
Abundance Ion 136.00 (135.70 to 136.70): E

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

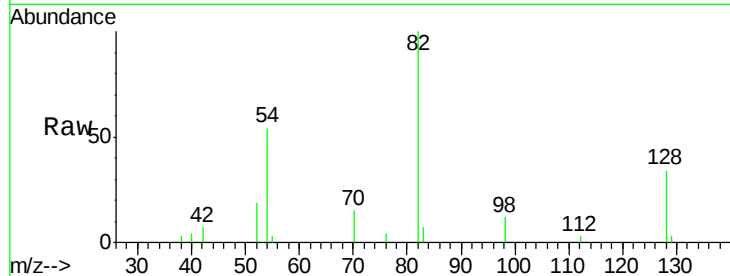




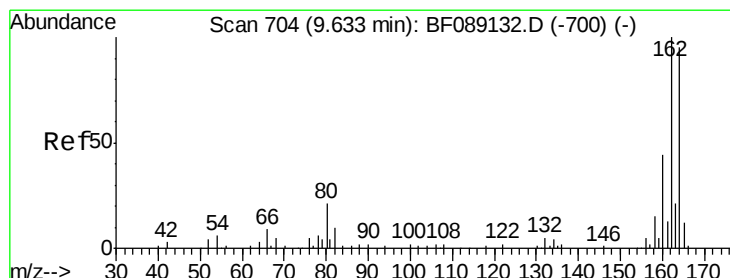
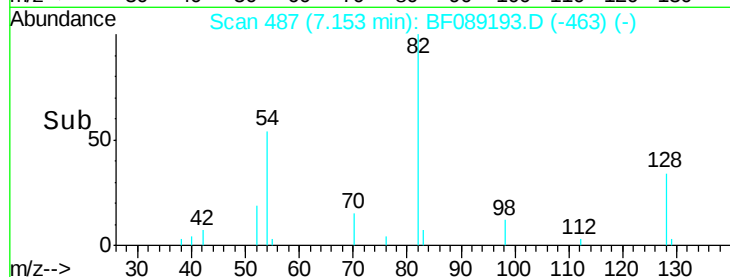
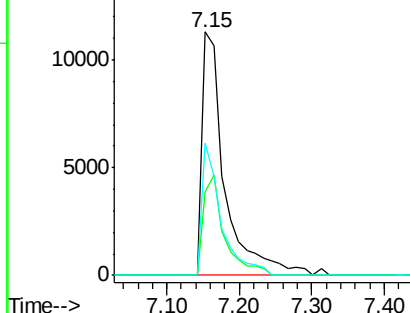
#23
 Nitrobenzene-d5
 Concen: 5.97 ng
 RT: 7.15 min Scan# 487
 Delta R.T. -0.02 min
 Lab File: BF089193.D
 Acq: 22 Jul 2016 13:10

Instrument :
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 SB-10-COMPDL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	34.2	33.0	49.6
54	54.3	39.0	58.4

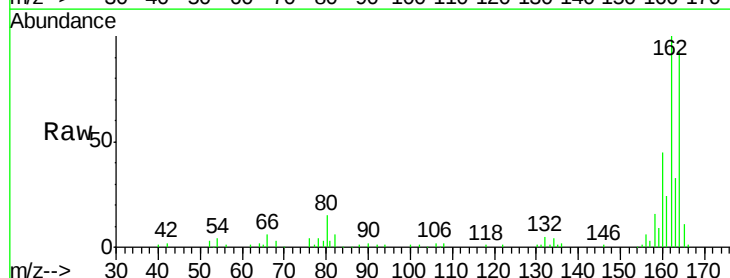


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

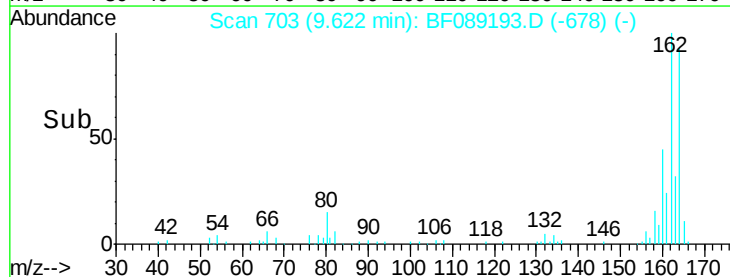
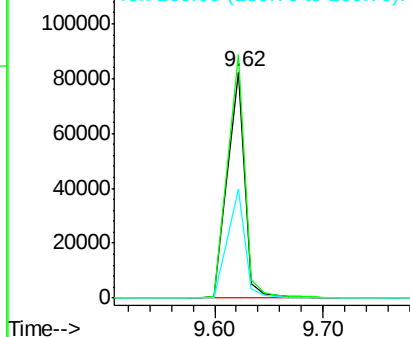


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.62 min Scan# 703
 Delta R.T. -0.01 min
 Lab File: BF089193.D
 Acq: 22 Jul 2016 13:10

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.7	84.1	126.1
160	48.6	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

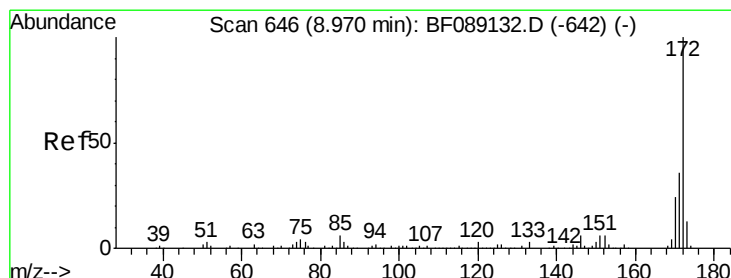
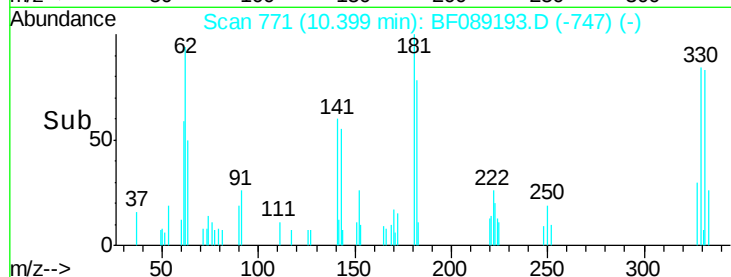
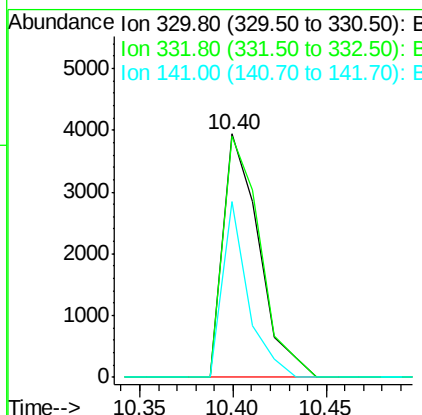
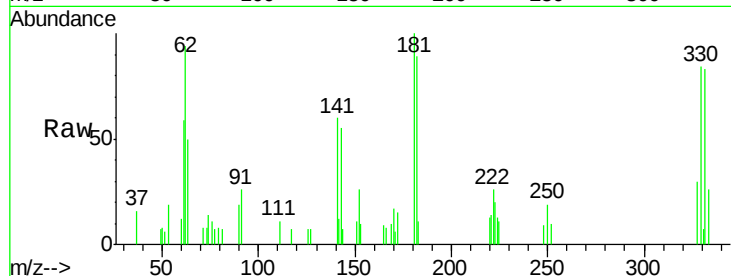




#41
 2,4,6-Tribromophenol
 Concen: 6.54 ng
 RT: 10.40 min Scan# 771
 Delta R.T. -0.02 min
 Lab File: BF089193.D
 Acq: 22 Jul 2016 13:10

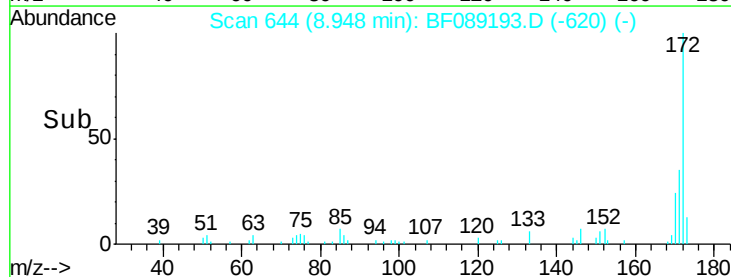
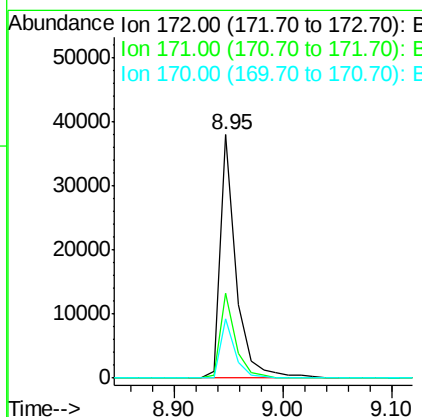
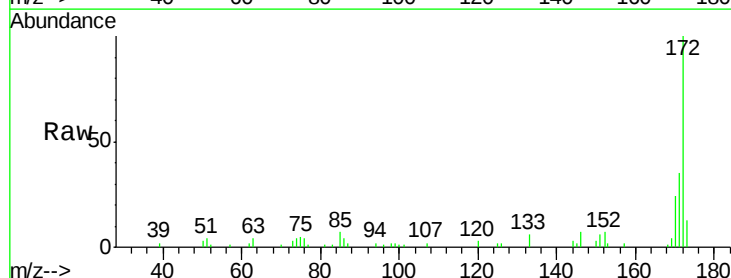
Instrument :
 BNA_F
 ClientSampleId :
 SB-10-COMPDL

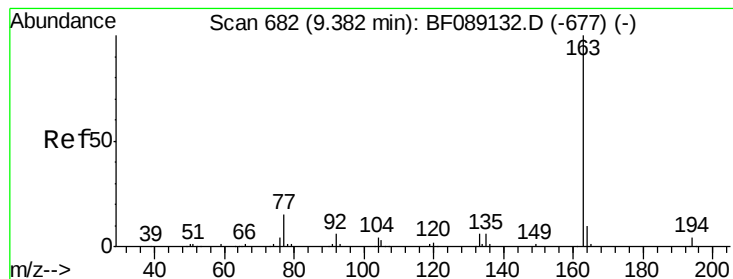
Tgt Ion:330 Resp: 5328
 Ion Ratio Lower Upper
 330 100
 332 102.2 77.2 115.8
 141 51.2 42.2 63.2



#44
 2-Fluorobiphenyl
 Concen: 5.91 ng
 RT: 8.95 min Scan# 644
 Delta R.T. -0.02 min
 Lab File: BF089193.D
 Acq: 22 Jul 2016 13:10

Tgt Ion:172 Resp: 38785
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.2 43.8
 170 24.2 19.1 28.7





#49

Dimethylphthalate

Concen: 2.49 ng

RT: 9.35 min Scan# 679

Delta R.T. -0.03 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

Instrument :

BNA_F

ClientSampleId :

SB-10-COMPDL

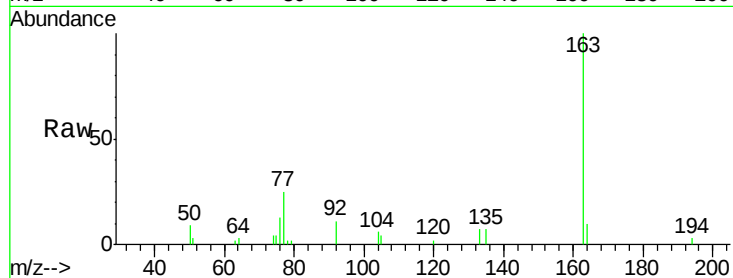
Tgt Ion:163 Resp: 17268

Ion Ratio Lower Upper

163 100

194 3.2 2.9 4.3

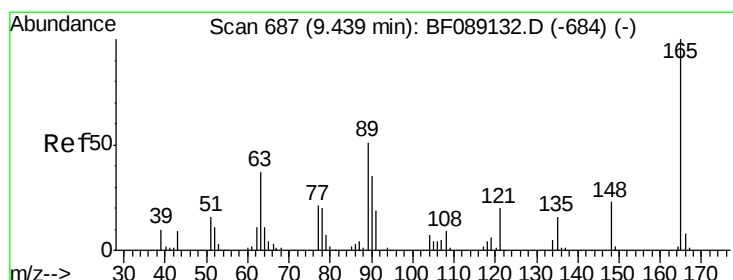
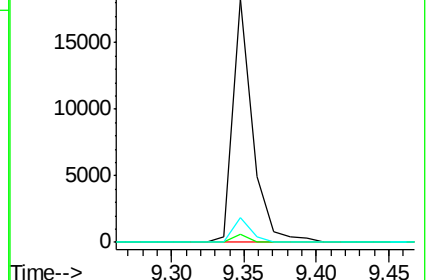
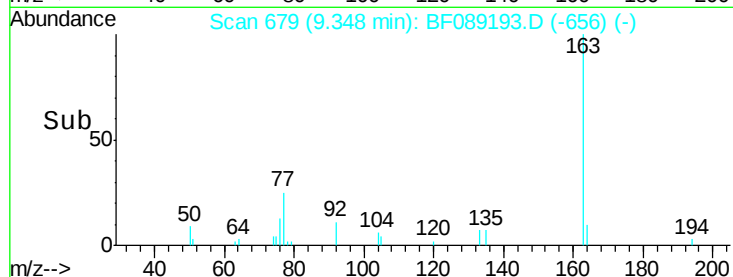
164 10.2 7.6 11.4



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



#50

2,6-Dinitrotoluene

Concen: 7.19 ng

RT: 9.62 min Scan# 703

Delta R.T. 0.18 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

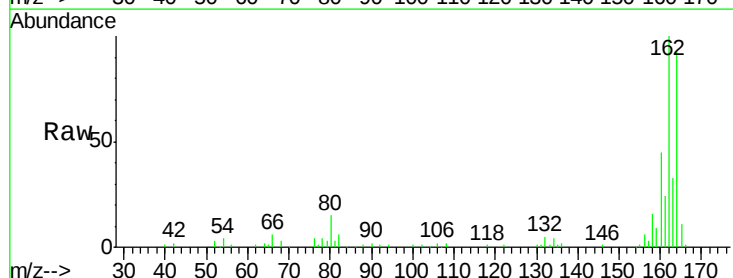
Tgt Ion:165 Resp: 11266

Ion Ratio Lower Upper

165 100

63 0.0 37.0 55.4#

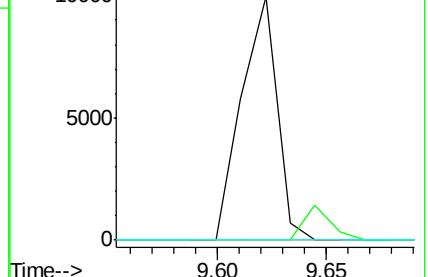
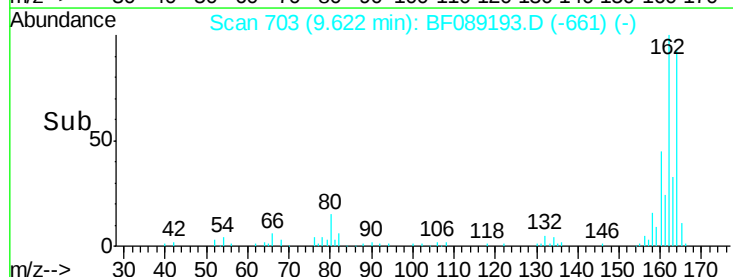
89 0.0 40.9 61.3#

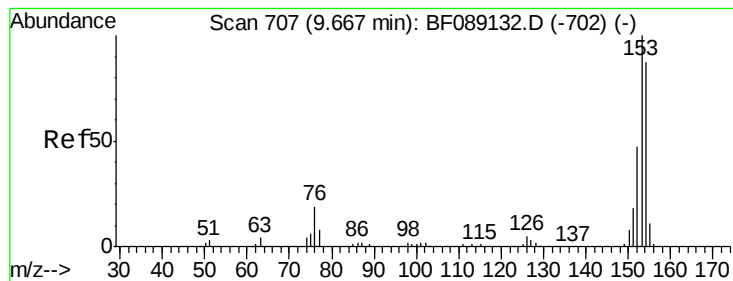


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 2.42 ng

RT: 9.64 min Scan# 705

Delta R.T. -0.02 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

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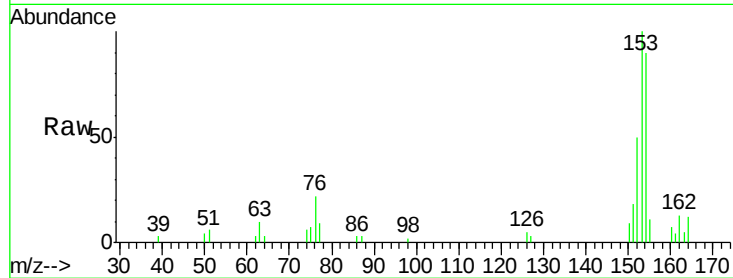
Tgt Ion:154 Resp: 13950

Ion Ratio Lower Upper

154 100

153 110.7 91.9 137.9

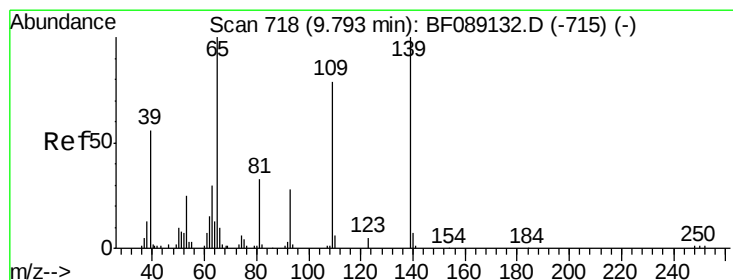
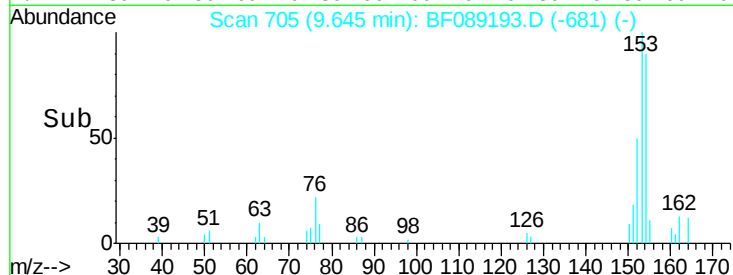
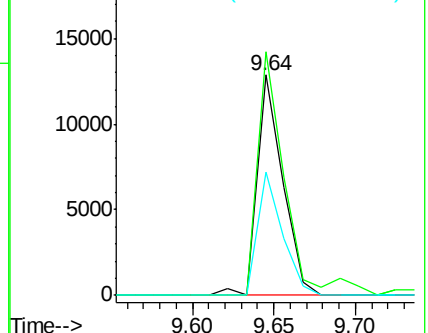
152 55.8 42.8 64.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 3.41 ng

RT: 9.82 min Scan# 720

Delta R.T. 0.02 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

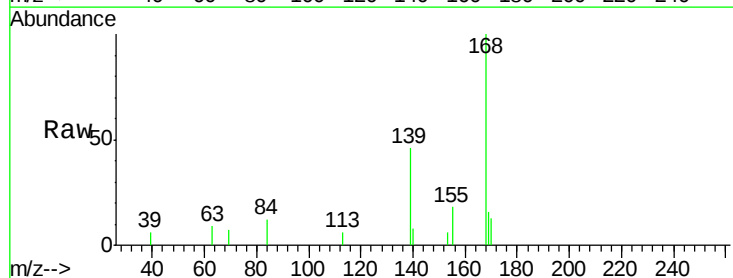
Tgt Ion:139 Resp: 3843

Ion Ratio Lower Upper

139 100

109 0.0 58.7 98.7#

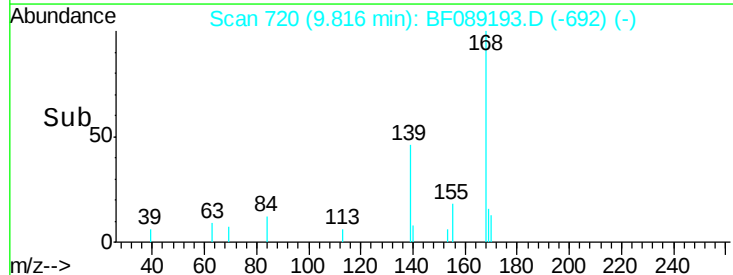
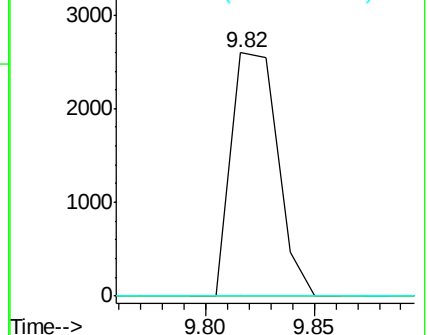
65 0.0 80.2 120.2#

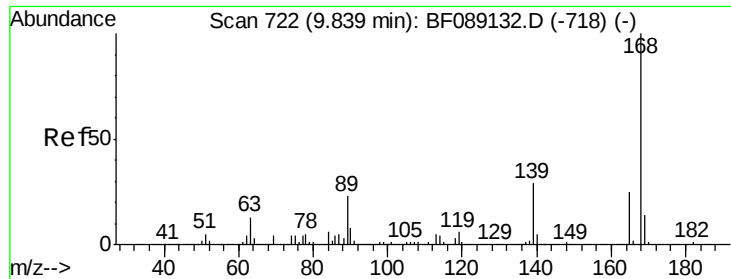


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

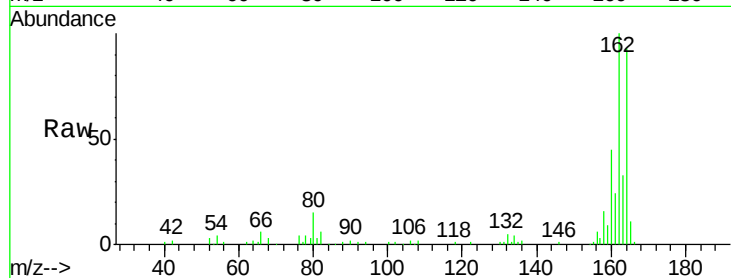




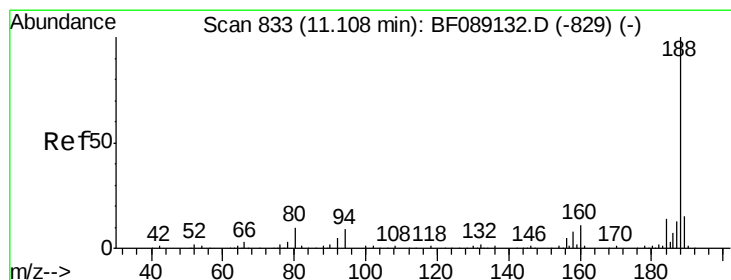
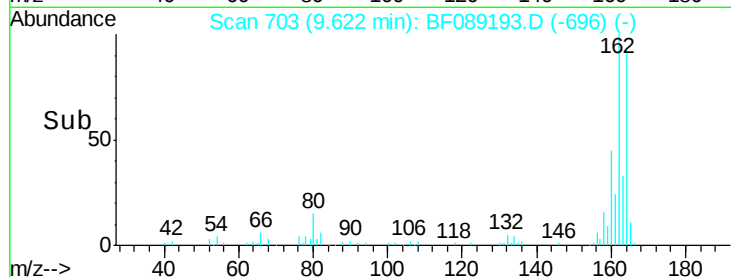
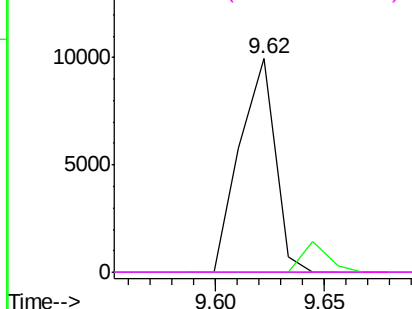
#56
2,4-Dinitrotoluene
Concen: 5.58 ng
RT: 9.62 min Scan# 703
Delta R.T. -0.22 min
Lab File: BF089193.D
Acq: 22 Jul 2016 13:10

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BNA_F
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SB-10-COMPDL

Tgt Ion:165 Resp: 11266
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#



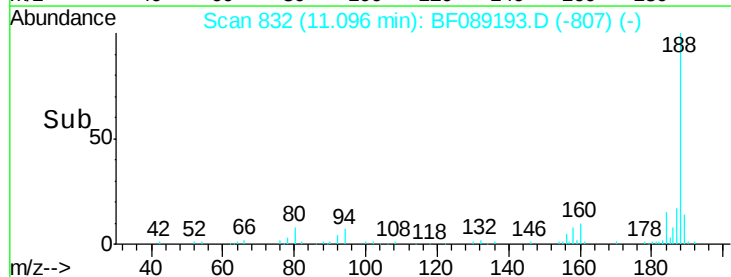
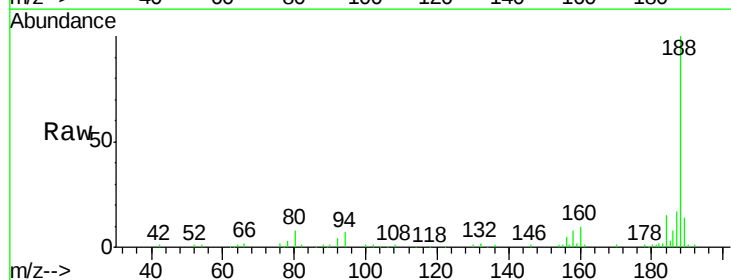
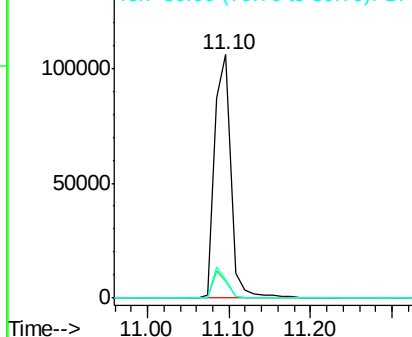
Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

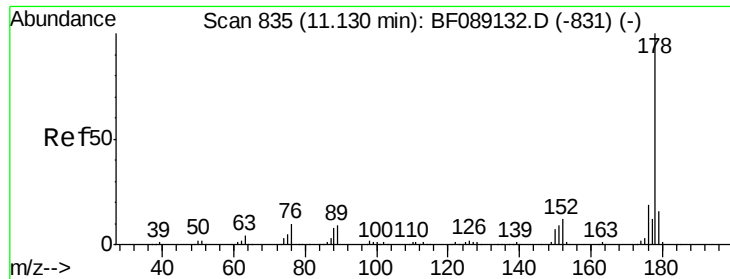


#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.10 min Scan# 832
Delta R.T. -0.01 min
Lab File: BF089193.D
Acq: 22 Jul 2016 13:10

Tgt Ion:188 Resp: 147530
Ion Ratio Lower Upper
188 100
94 7.1 7.0 10.4
80 7.6 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

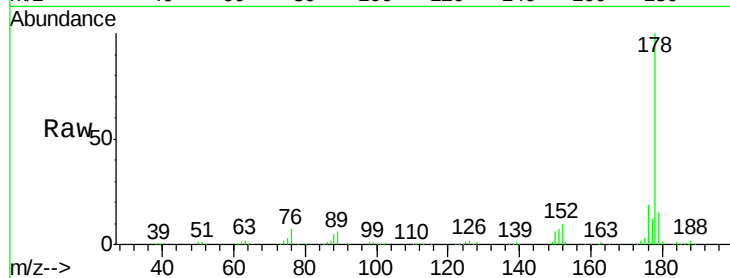




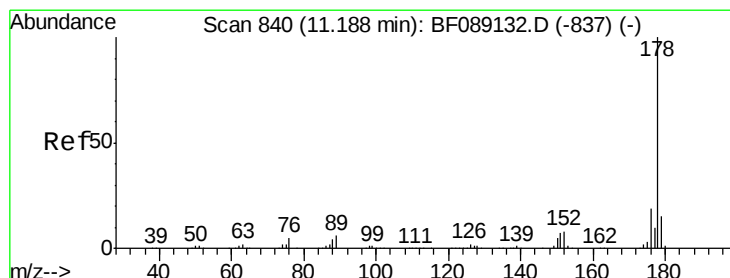
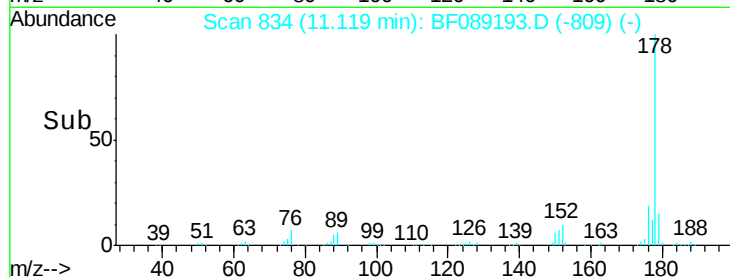
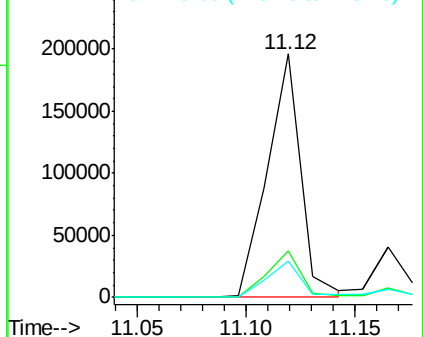
#70
Phenanthrene
Concen: 26.06 ng
RT: 11.12 min Scan# 834
Delta R.T. -0.01 min
Lab File: BF089193.D
Acq: 22 Jul 2016 13:10

Instrument :
BNA_F
ClientSampleId :
SB-10-COMPDL

Tgt Ion:178 Resp: 210891
Ion Ratio Lower Upper
178 100
176 18.9 15.6 23.4
179 14.8 12.4 18.6

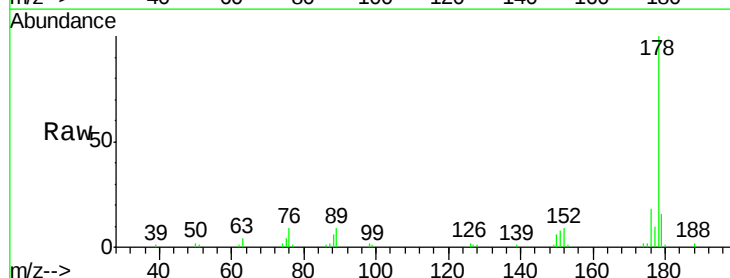


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

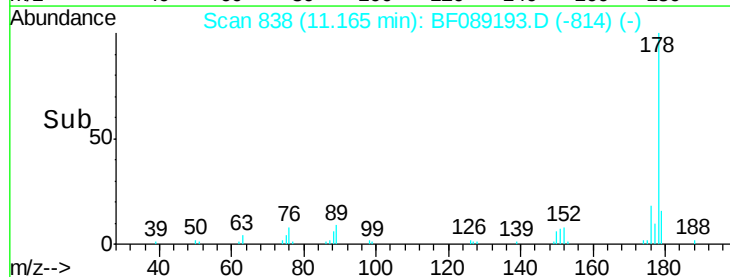
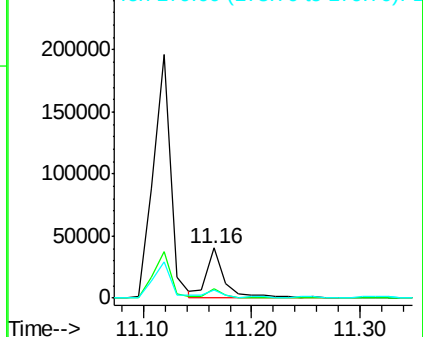


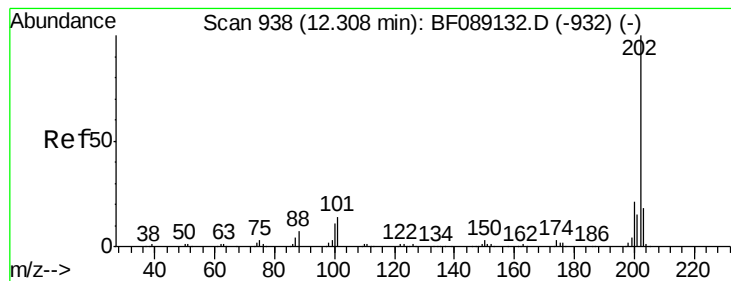
#71
Anthracene
Concen: 5.53 ng
RT: 11.16 min Scan# 838
Delta R.T. -0.02 min
Lab File: BF089193.D
Acq: 22 Jul 2016 13:10

Tgt Ion:178 Resp: 46545
Ion Ratio Lower Upper
178 100
176 17.8 14.9 22.3
179 16.3 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: 29.85 ng

RT: 12.30 min Scan# 937

Delta R.T. -0.01 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

Instrument :

BNA_F

ClientSampleId :

SB-10-COMPDL

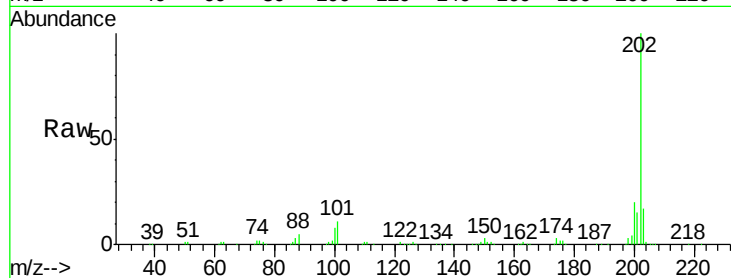
Tgt Ion: 202 Resp: 253898

Ion Ratio Lower Upper

202 100

101 10.6 0.0 34.0

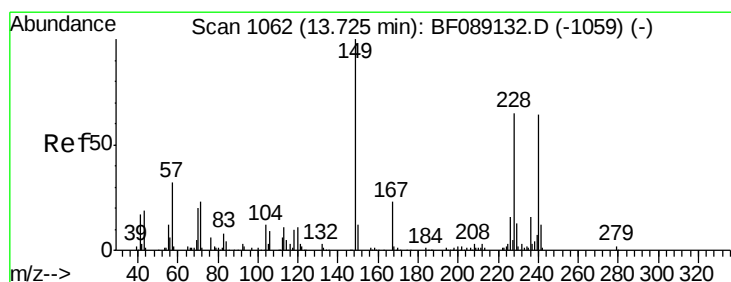
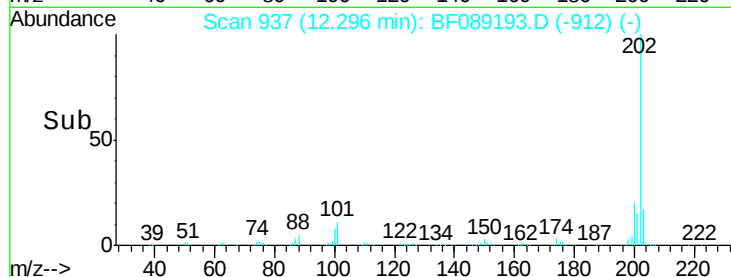
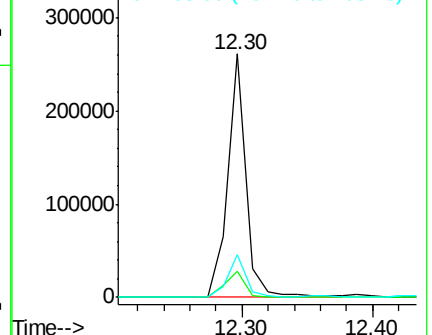
203 17.3 0.0 37.8



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: 13.71 min Scan# 1061

Delta R.T. -0.01 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

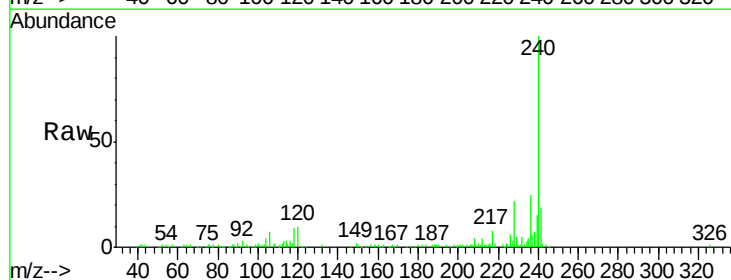
Tgt Ion: 240 Resp: 98451

Ion Ratio Lower Upper

240 100

120 9.7 13.6 20.4#

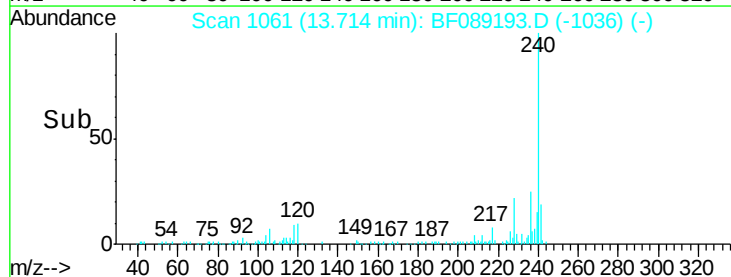
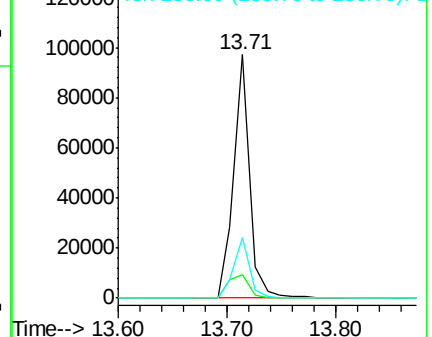
236 24.9 20.5 30.7

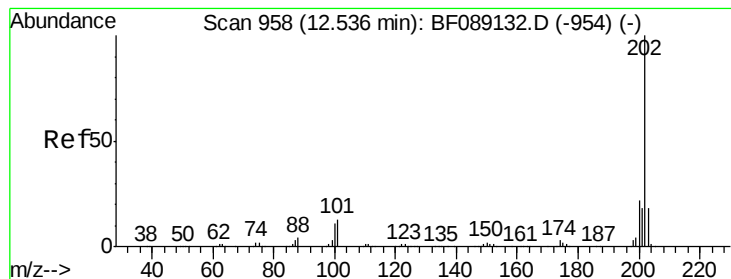


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 28.20 ng

RT: 12.53 min Scan# 957

Delta R.T. -0.01 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

Instrument :

BNA_F

ClientSampleId :

SB-10-COMPDL

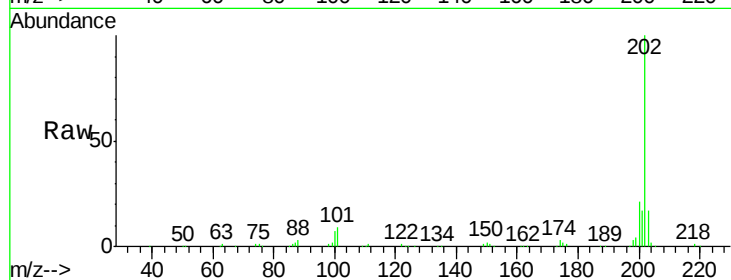
Tgt Ion:202 Resp: 229262

Ion Ratio Lower Upper

202 100

200 20.5 17.4 26.0

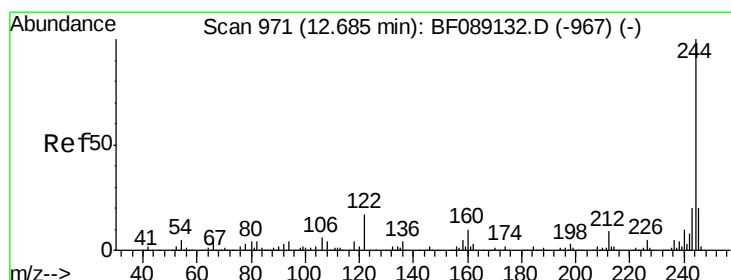
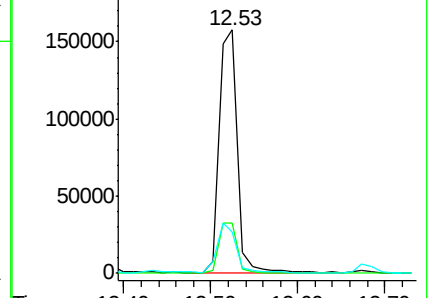
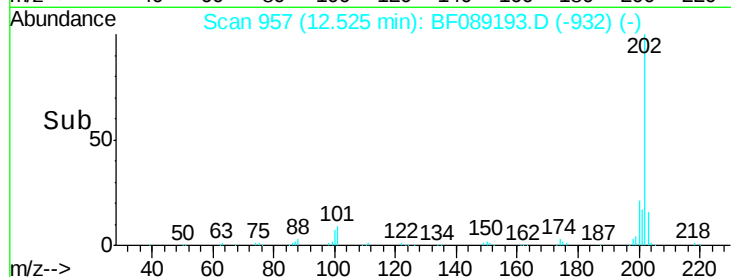
203 16.8 14.2 21.2



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: 4.26 ng

RT: 12.67 min Scan# 970

Delta R.T. -0.01 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

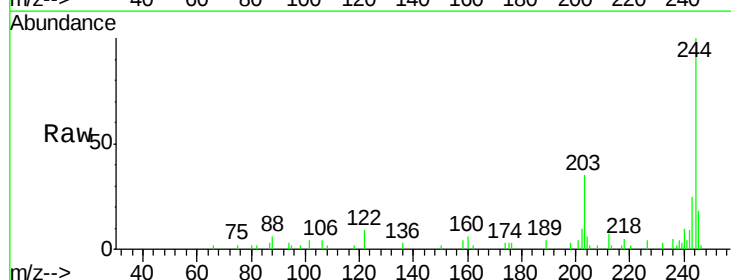
Tgt Ion:244 Resp: 19323

Ion Ratio Lower Upper

244 100

212 7.2 7.0 10.4

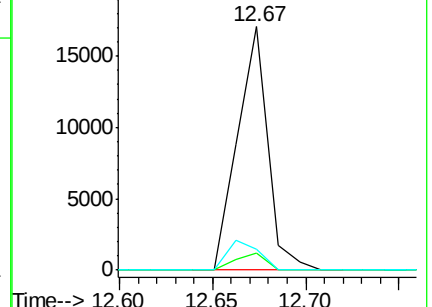
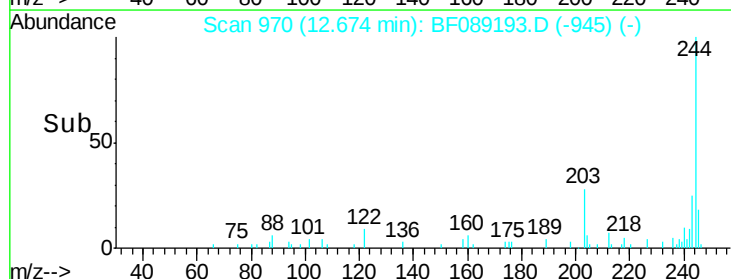
122 8.6 13.8 20.8#

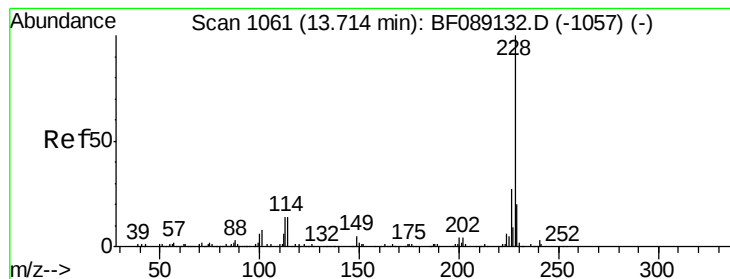


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 17.38 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.01 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

Instrument :

BNA_F

ClientSampleId :

SB-10-COMPDL

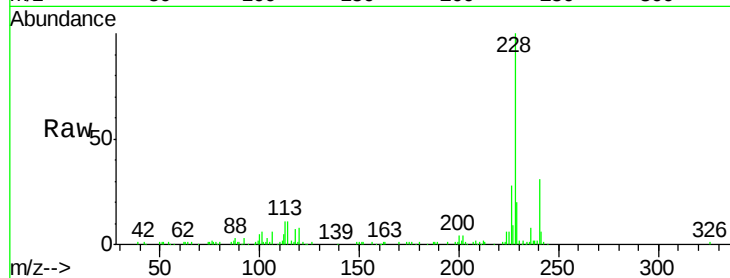
Tgt Ion:228 Resp: 108959

Ion Ratio Lower Upper

228 100

226 27.8 21.8 32.8

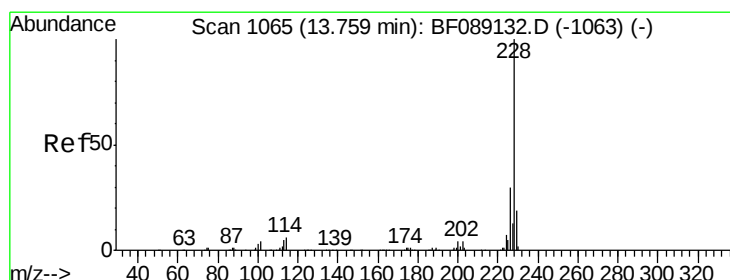
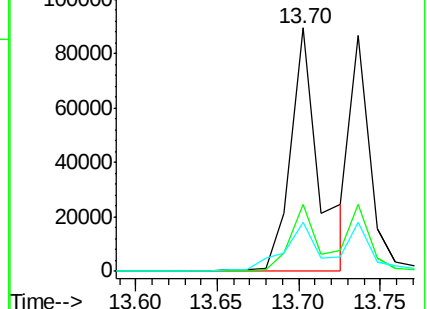
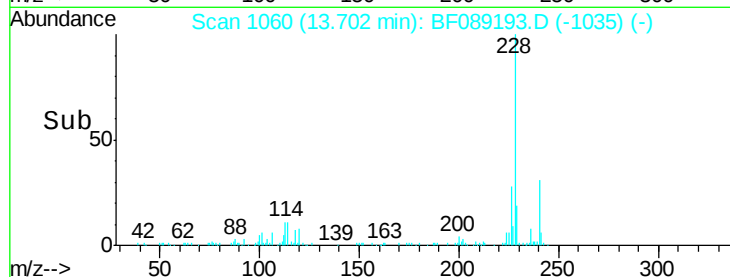
229 19.9 15.8 23.8



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: 12.58 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.02 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

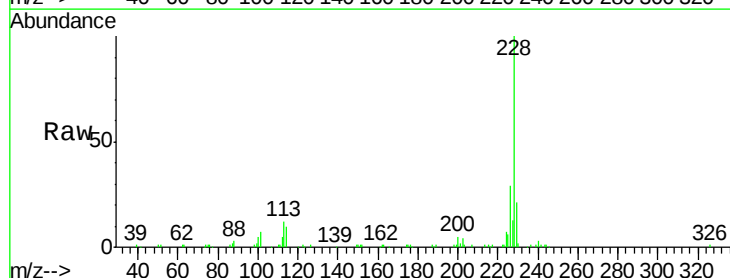
Tgt Ion:228 Resp: 75321

Ion Ratio Lower Upper

228 100

226 28.5 23.8 35.8

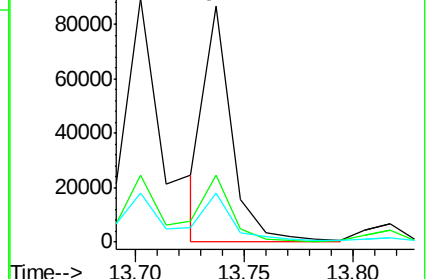
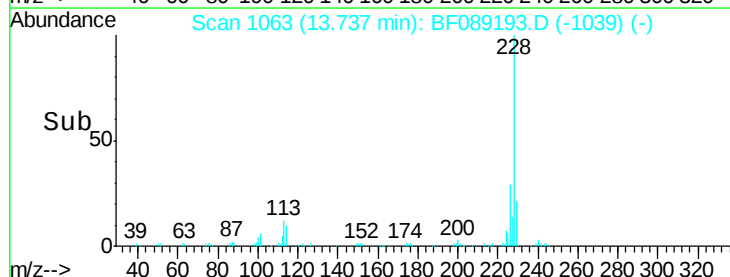
229 21.0 15.4 23.0

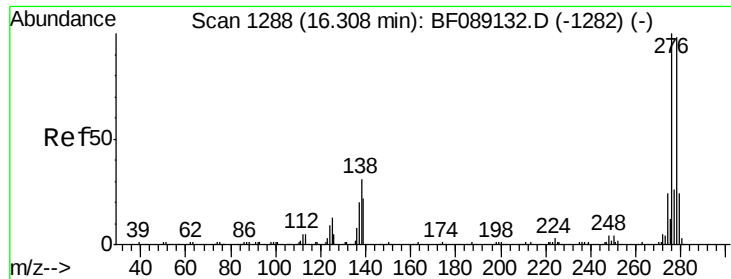


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

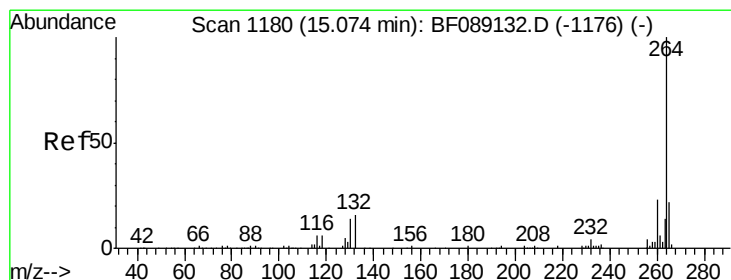
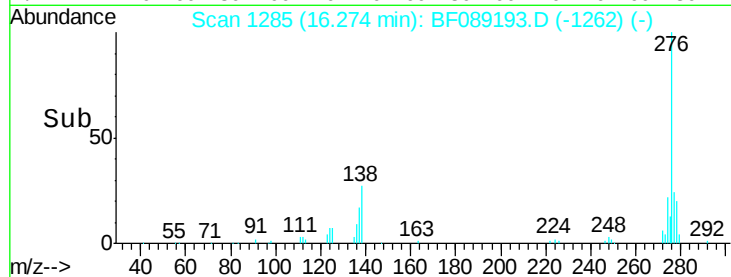
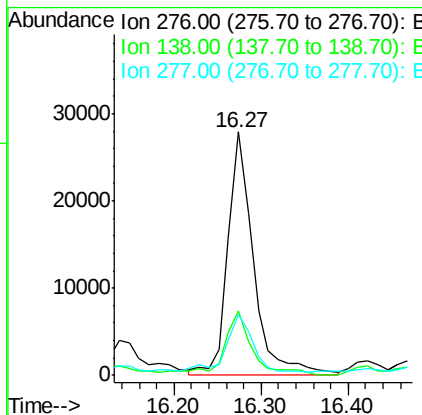
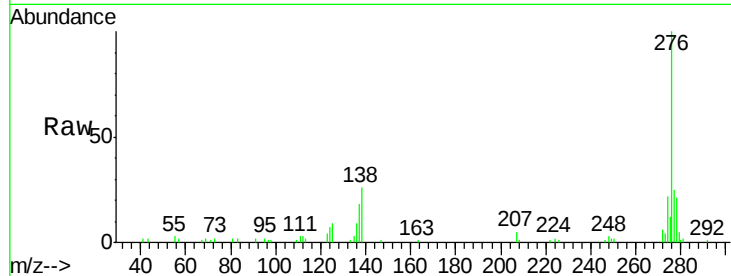




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.31 ng
 RT: 16.27 min Scan# 1285
 Delta R.T. -0.03 min
 Lab File: BF089193.D
 Acq: 22 Jul 2016 13:10

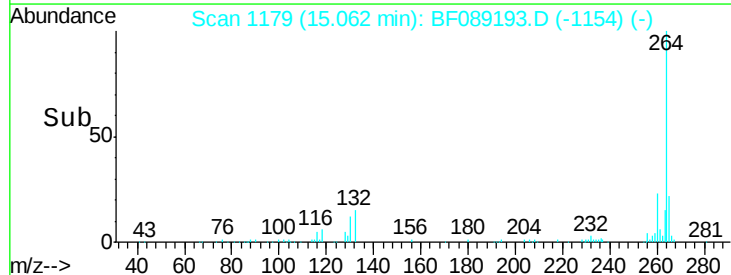
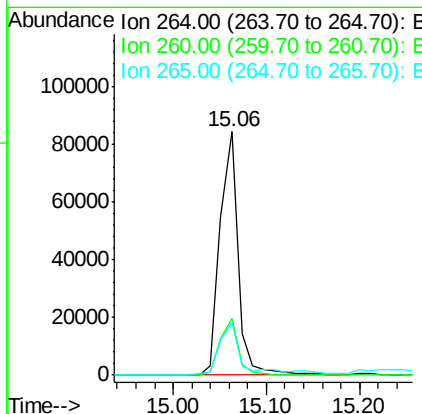
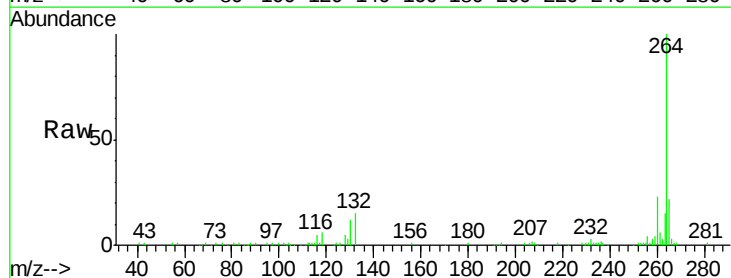
Instrument :
 BNA_F
 ClientSampleId :
 SB-10-COMPDL

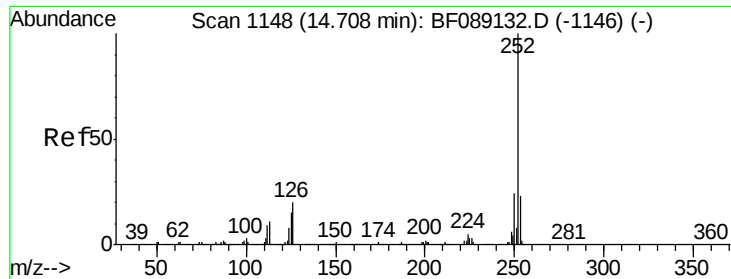
Tgt Ion:276 Resp: 57909
 Ion Ratio Lower Upper
 276 100
 138 27.6 23.7 35.5
 277 29.6 20.6 31.0



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.06 min Scan# 1179
 Delta R.T. -0.01 min
 Lab File: BF089193.D
 Acq: 22 Jul 2016 13:10

Tgt Ion:264 Resp: 113841
 Ion Ratio Lower Upper
 264 100
 260 23.3 18.5 27.7
 265 21.9 17.3 25.9

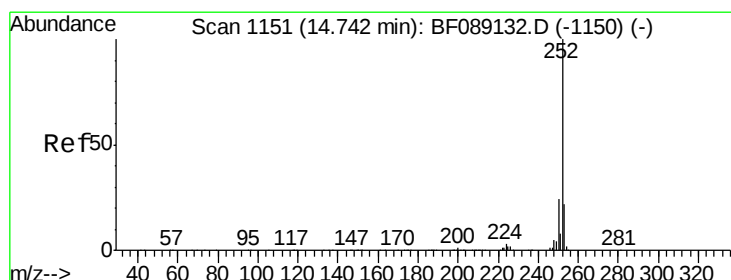
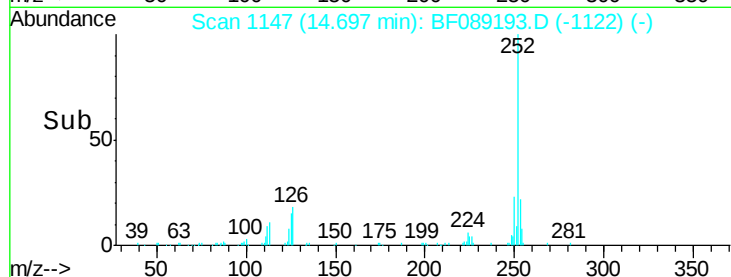
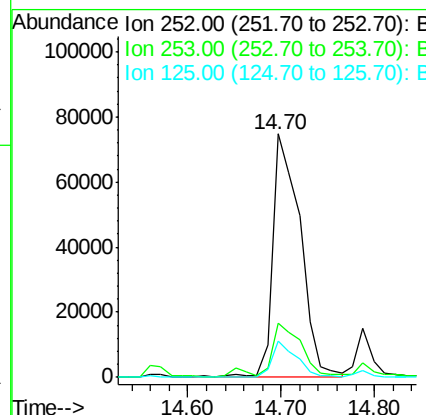
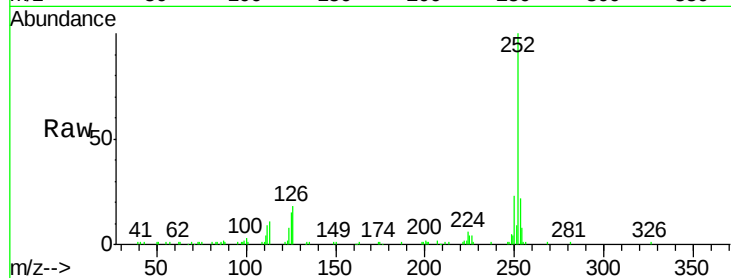




#87
Benzo(b)fluoranthene
Concen: 18.59 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF089193.D
Acq: 22 Jul 2016 13:10

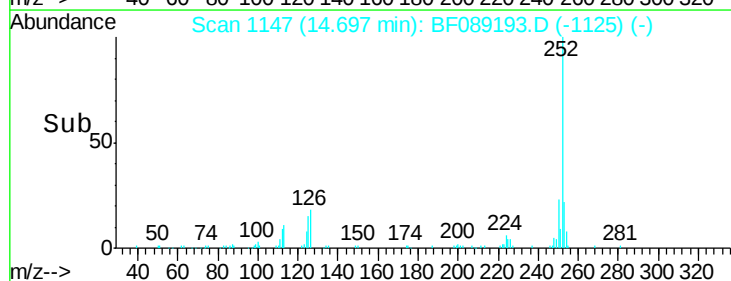
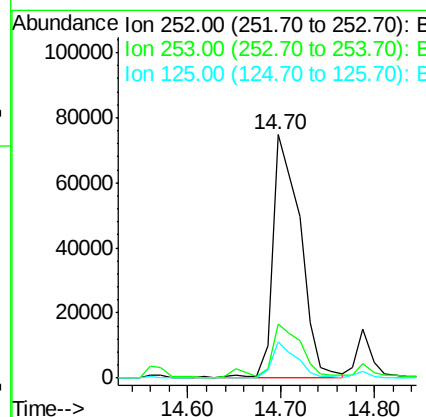
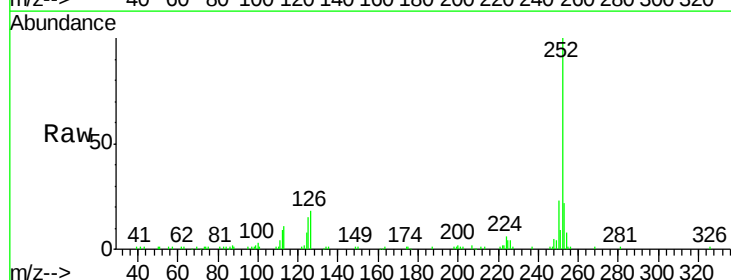
Instrument :
BNA_F
ClientSampleId :
SB-10-COMPDL

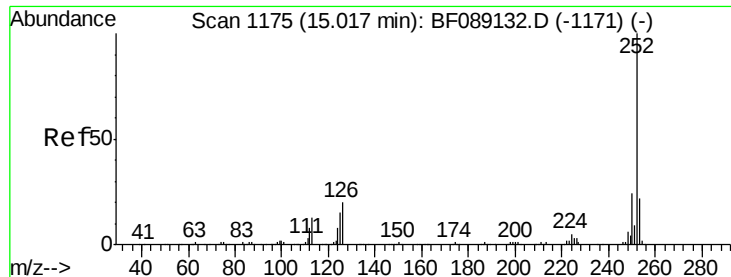
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.2	27.2
125	14.8	11.9	17.9



#88
Benzo(k)fluoranthene
Concen: 25.99 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.05 min
Lab File: BF089193.D
Acq: 22 Jul 2016 13:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.3	25.9
125	14.8	6.3	9.5#





#89

Benzo(a)pyrene

Concen: 4.37 ng

RT: 15.09 min Scan# 1181

Delta R.T. 0.07 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

Instrument :

BNA_F

ClientSampleId :

SB-10-COMPDL

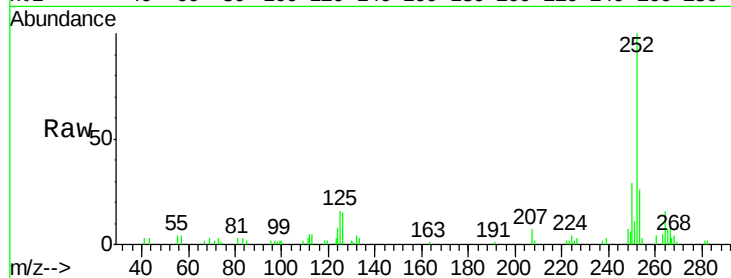
Tgt Ion:252 Resp: 28001

Ion Ratio Lower Upper

252 100

253 25.5 17.4 26.0

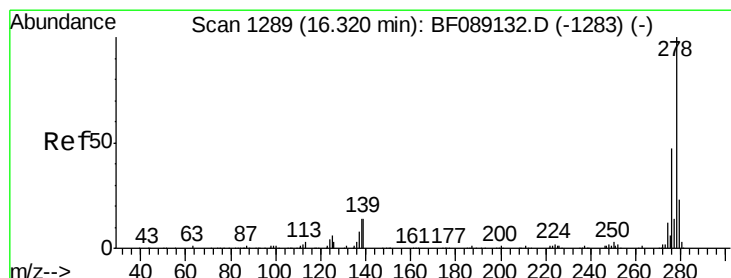
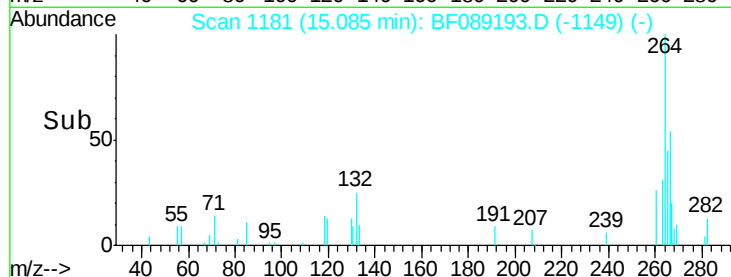
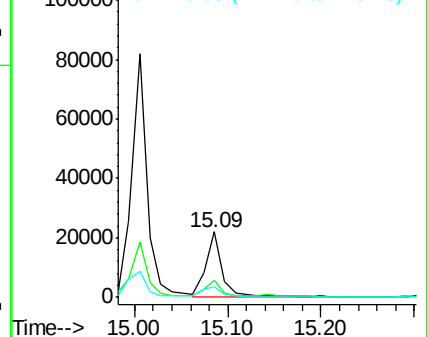
125 15.8 12.4 18.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 3.62 ng

RT: 16.27 min Scan# 1285

Delta R.T. -0.05 min

Lab File: BF089193.D

Acq: 22 Jul 2016 13:10

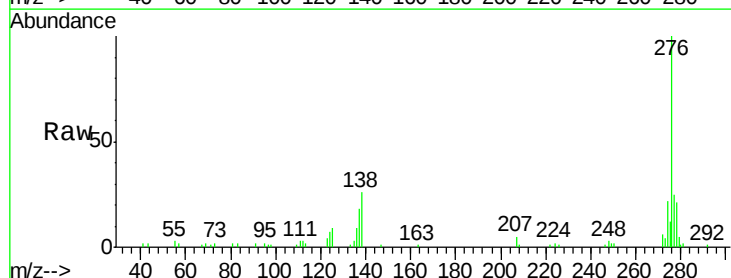
Tgt Ion:278 Resp: 18281

Ion Ratio Lower Upper

278 100

139 0.0 11.4 17.2#

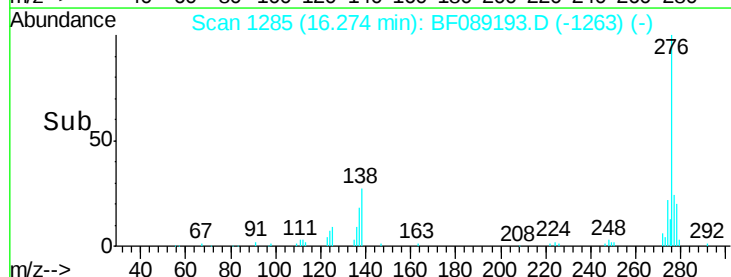
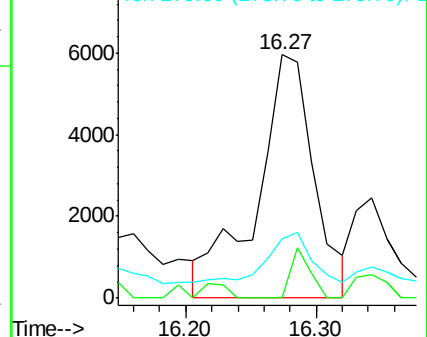
279 24.2 18.4 27.6

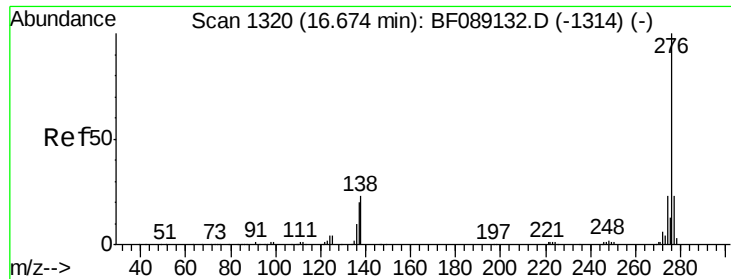


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 10.23 ng

RT: 16.64 min Scan# 1317

Delta R.T. -0.03 min

Lab File: BF089193.D

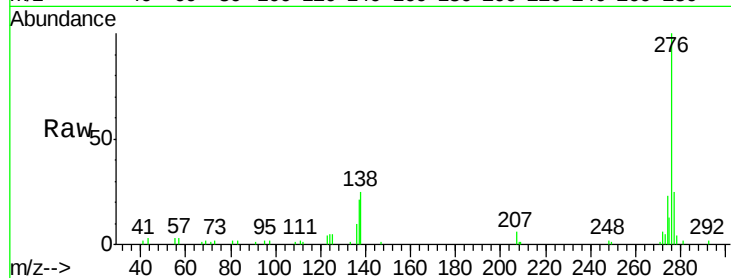
Acq: 22 Jul 2016 13:10

Instrument :

BNA_F

ClientSampleId :

SB-10-COMPDL



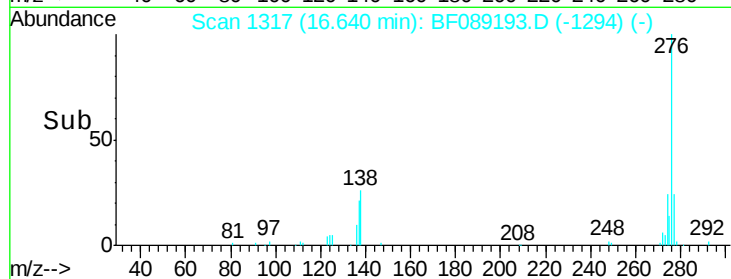
Tgt Ion: 276 Resp: 52134

Ion Ratio Lower Upper

276 100

277 25.3 18.5 27.7

138 25.3 18.5 27.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

