

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070916\
 Data File : BF088893.D
 Acq On : 10 Jul 2016 2:22
 Operator : UM/SJ
 Sample : H3889-09DL 400X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-9DL

Quant Time: Jul 11 04:39:06 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

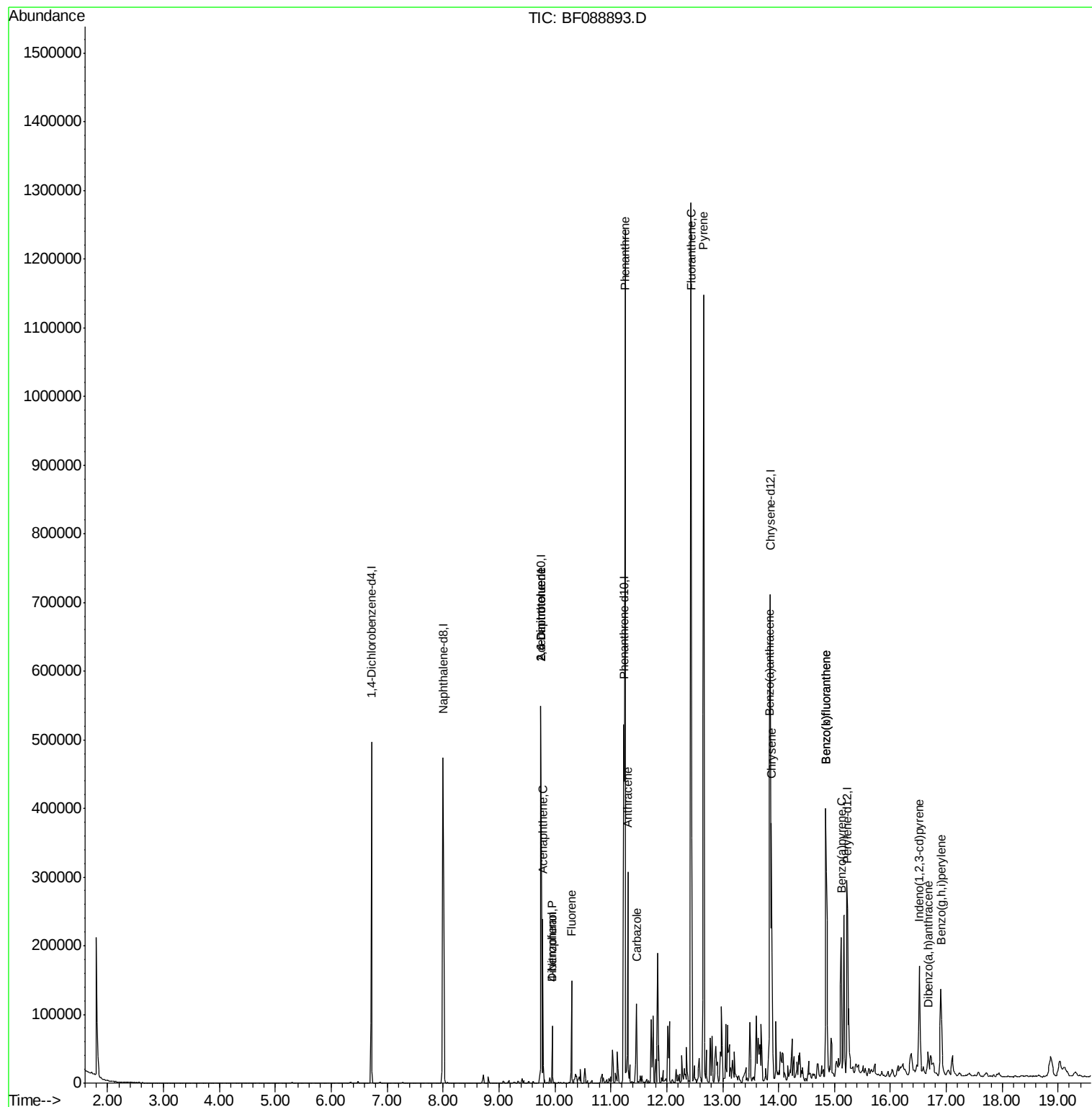
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	69680	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	268674	20.00	ng	-0.02
38) Acenaphthene-d10	9.75	164	125641	20.00	ng	-0.02
63) Phenanthrene-d10	11.23	188	258771	20.00	ng	-0.01
75) Chrysene-d12	13.85	240	134729	20.00	ng	-0.02
86) Perylene-d12	15.23	264	143322	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	808	0.17	ng	-0.02
7) Phenol-d6	6.35	99	1195	0.20	ng	-0.02
23) Nitrobenzene-d5	7.28	82	761	0.15	ng	-0.02
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.07	172	1924	0.24	ng	-0.02
78) Terphenyl-d14	12.81	244	2049	0.34	ng	-0.01
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	9.75	165	16644	8.39	ng	# 37
51) Acenaphthene	9.78	154	47245	5.93	ng	97
54) Dibenzofuran	9.95	168	29528	2.83	ng	# 89
55) 4-Nitrophenol	9.95	139	11689	6.10	ng	# 5
56) 2,4-Dinitrotoluene	9.75	165	16644	6.42	ng	# 36
57) Fluorene	10.30	166	38443	4.78	ng	96
70) Phenanthrene	11.26	178	486935	34.42	ng	98
71) Anthracene	11.30	178	113783	8.09	ng	97
72) Carbazole	11.46	167	69514	5.25	ng	97
74) Fluoranthene	12.43	202	518085	36.13	ng	98
77) Pyrene	12.66	202	458000	40.09	ng	99
80) Benzo(a)anthracene	13.84	228	201177	23.19	ng	99
82) Chrysene	13.87	228	146688	17.09	ng	96
85) Indeno(1,2,3-cd)pyrene	16.51	276	96871	14.67	ng	# 100
87) Benzo(b)fluoranthene	14.85	252	271751	30.23	ng	# 95
88) Benzo(k)fluoranthene	14.85	252	271751	34.72	ng	99
89) Benzo(a)pyrene	15.12	252	94455	12.41	ng	96
90) Dibenzo(a,h)anthracene	16.67	278	18678	2.94	ng	97
91) Benzo(g,h,i)perylene	16.90	276	91647	13.93	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: 6.72 min Scan# 449

Delta R.T. -0.01 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

SS-9DL

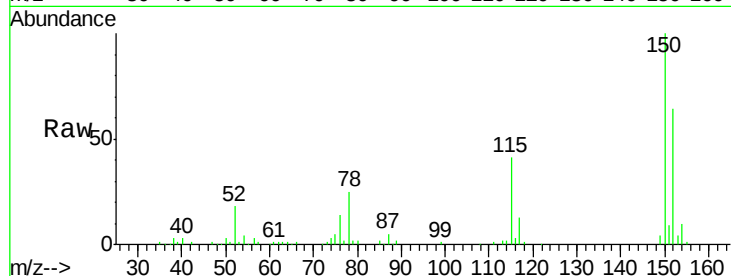
Tgt Ion:152 Resp: 69680

Ion Ratio Lower Upper

152 100

150 155.6 123.8 185.6

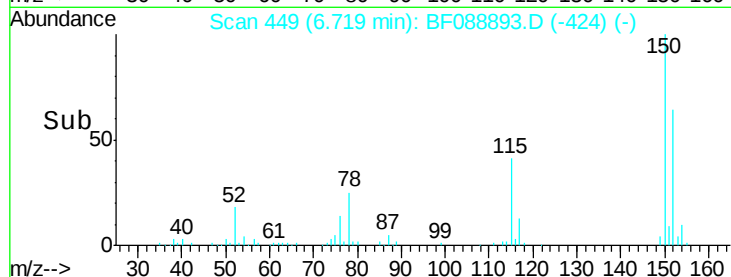
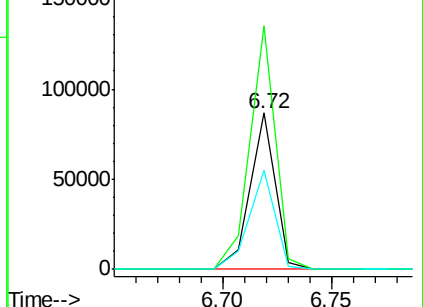
115 63.2 39.6 59.4#



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



#5

2-Fluorophenol

Concen: 0.17 ng

RT: 5.30 min Scan# 325

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

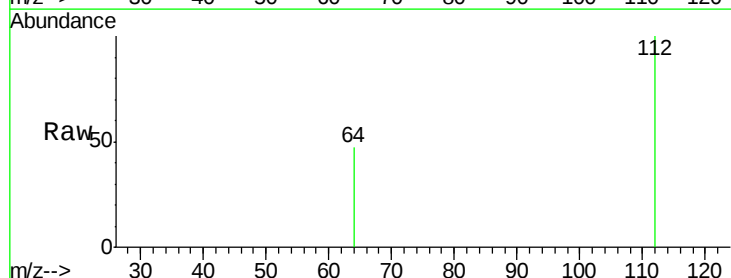
Tgt Ion:112 Resp: 808

Ion Ratio Lower Upper

112 100

64 47.2 42.2 63.2

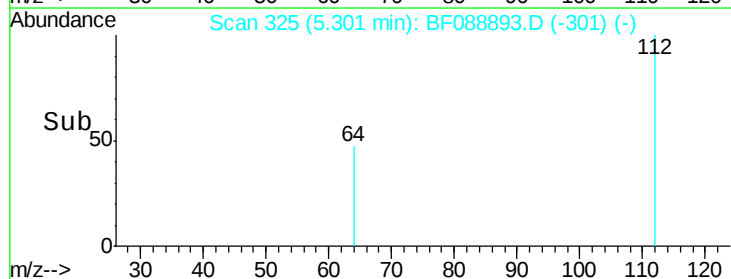
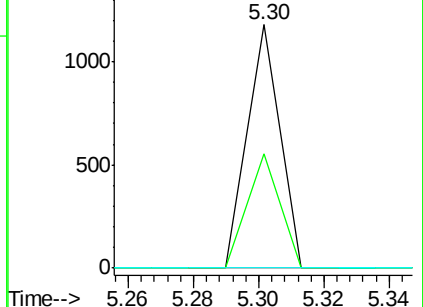
63 0.0 21.8 32.8#



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: 0.20 ng

RT: 6.35 min Scan# 417

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

SS-9DL

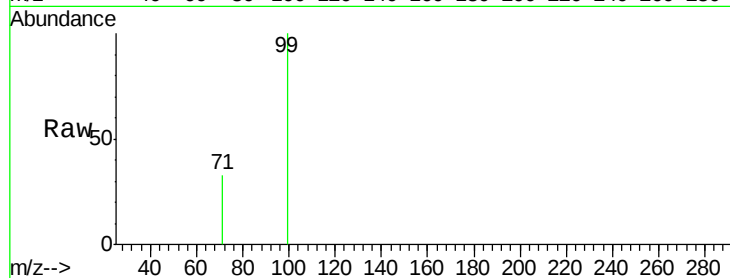
Tgt Ion: 99 Resp: 1195

Ion Ratio Lower Upper

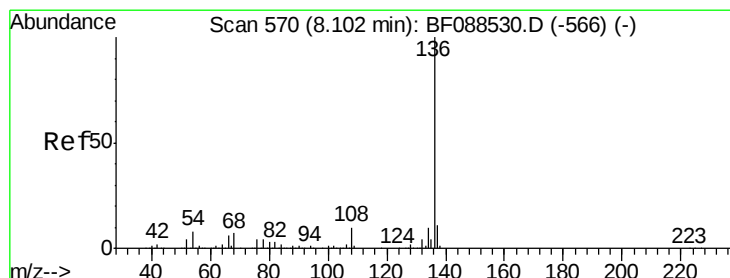
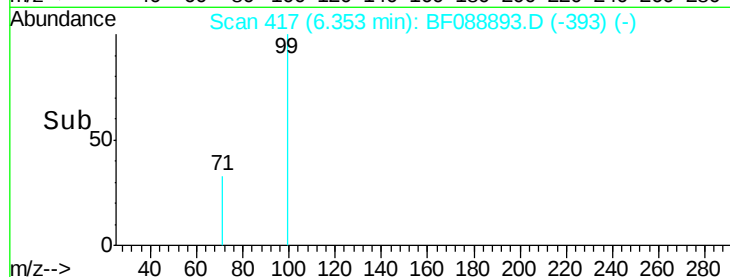
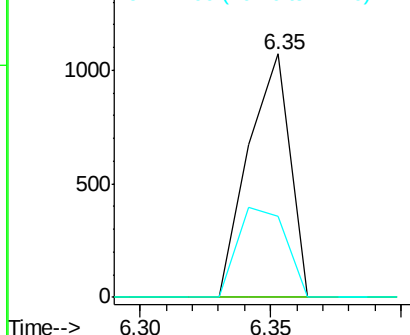
99 100

42 0.0 12.2 18.2#

71 33.4 23.4 35.0



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 561

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Tgt Ion: 136 Resp: 268674

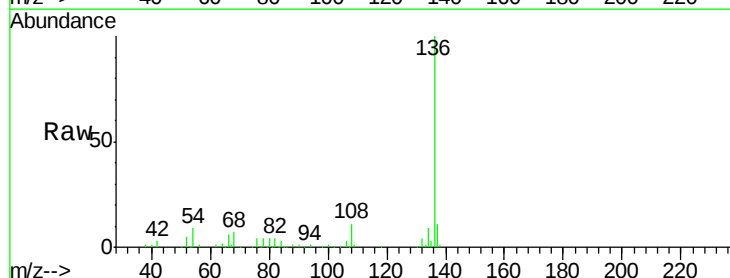
Ion Ratio Lower Upper

136 100

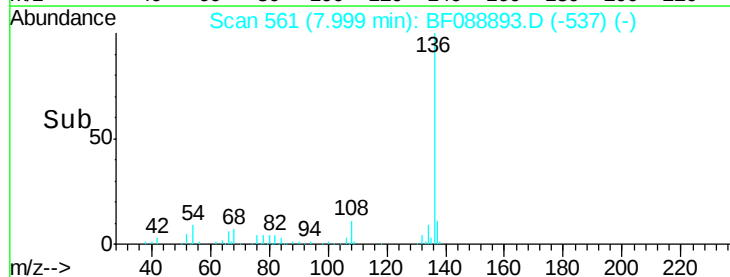
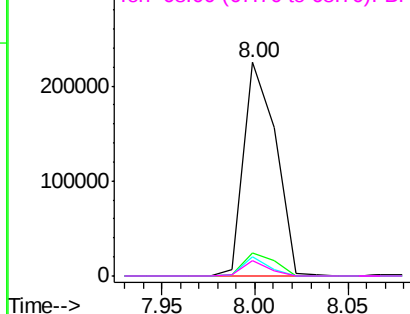
137 11.1 9.1 13.7

54 9.0 6.6 10.0

68 7.3 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

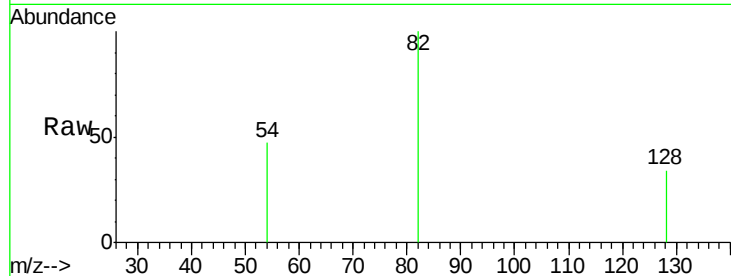




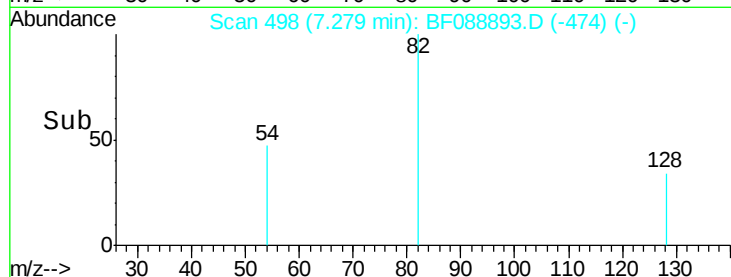
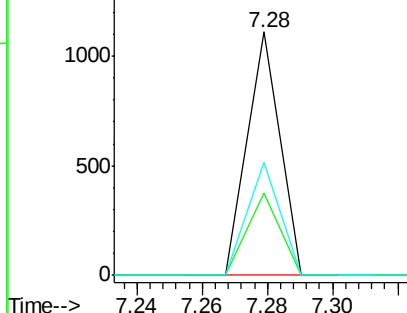
#23
 Nitrobenzene-d5
 Concen: 0.15 ng
 RT: 7.28 min Scan# 498
 Delta R.T. -0.02 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Instrument :
 BNA_F
 ClientSampleID :
 SS-9DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	34.1	35.9	53.9#
54	46.6	40.9	61.3

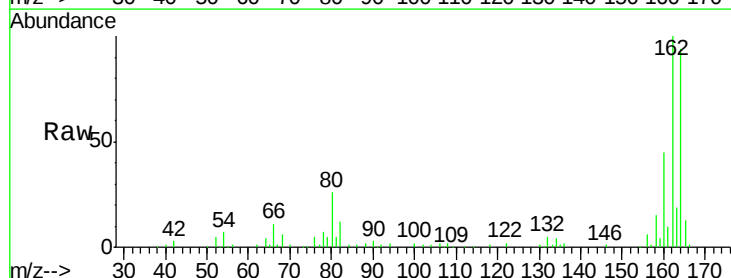


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

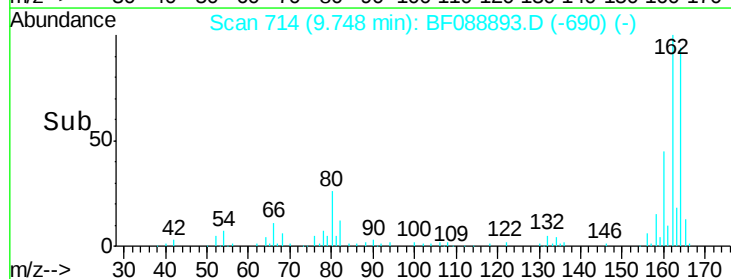
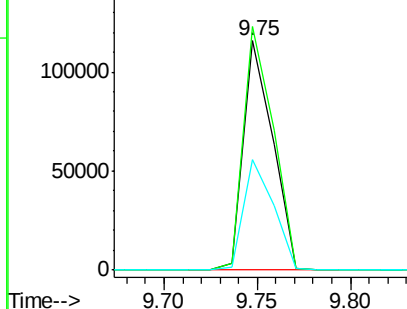


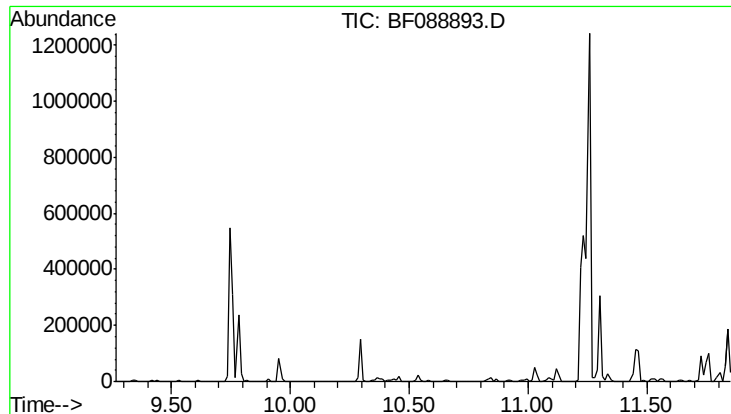
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.75 min Scan# 714
 Delta R.T. -0.02 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.3	85.4	128.2
160	48.0	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

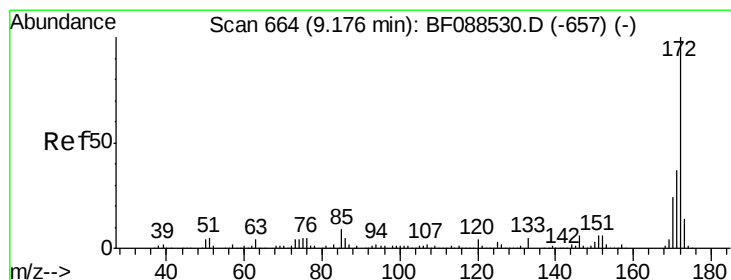
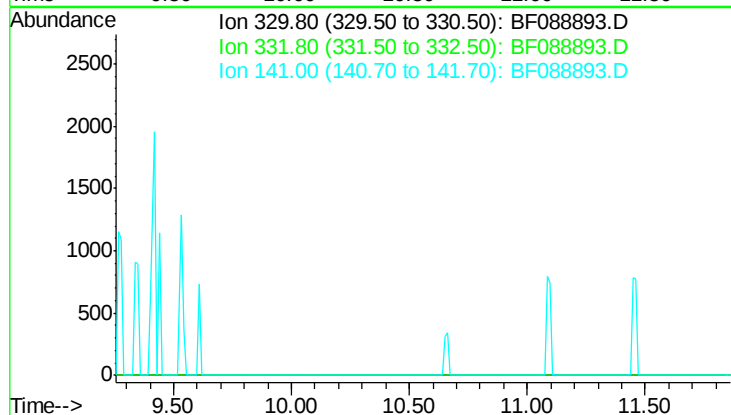




#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 10.56 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

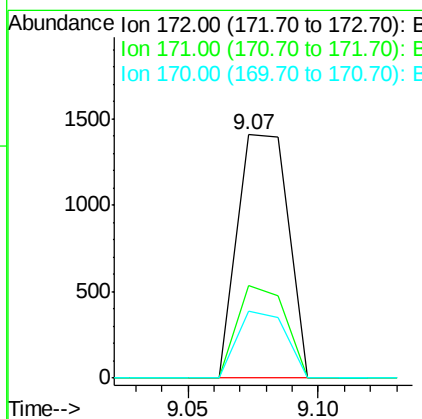
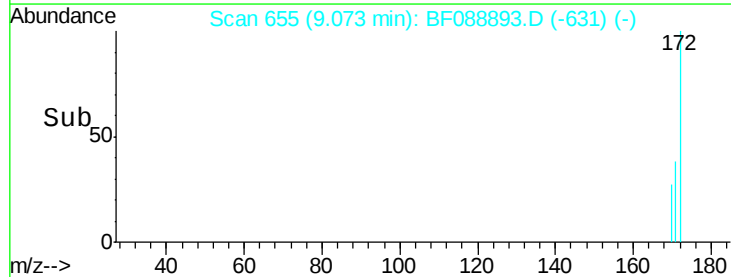
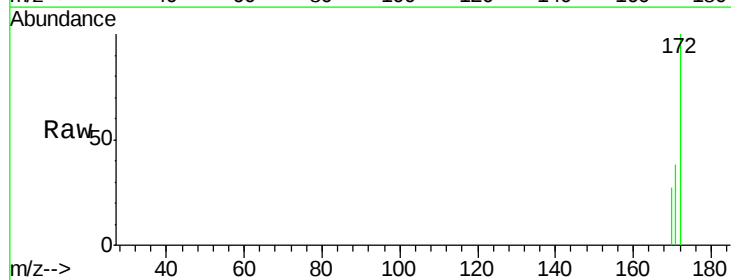
Instrument :
 BNA_F
 ClientSampleId :
 SS-9DL

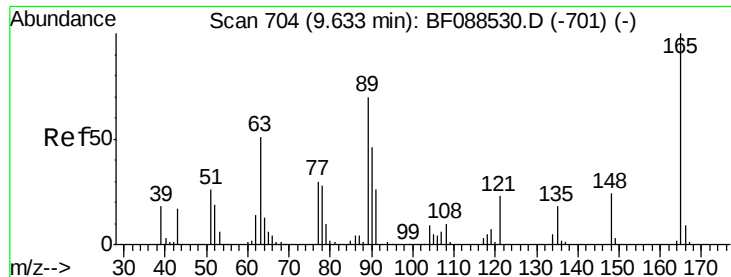
Tgt Ion: 330
 Sig Exp Ratio
 330 100
 332 0.0
 141 0.0



#44
 2-Fluorobiphenyl
 Concen: 0.24 ng
 RT: 9.07 min Scan# 655
 Delta R.T. -0.02 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Tgt Ion: 172 Resp: 1924
 Ion Ratio Lower Upper
 172 100
 171 38.3 28.6 43.0
 170 27.3 19.2 28.8

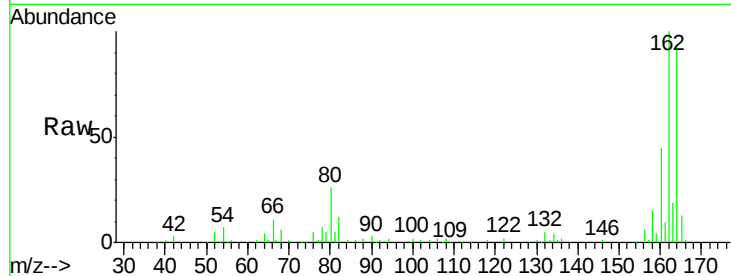




#50
2,6-Dinitrotoluene
Concen: 8.39 ng
RT: 9.75 min Scan# 714
Delta R.T. 0.18 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Instrument :
BNA_F
ClientSampleId :
SS-9DL

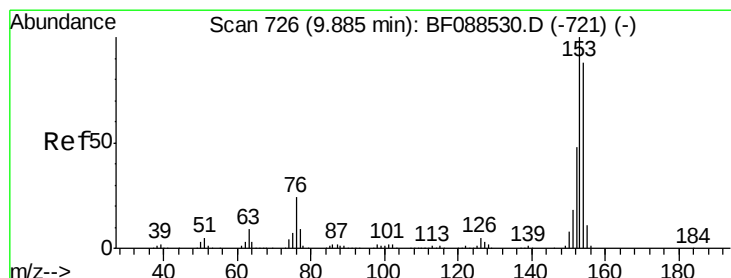
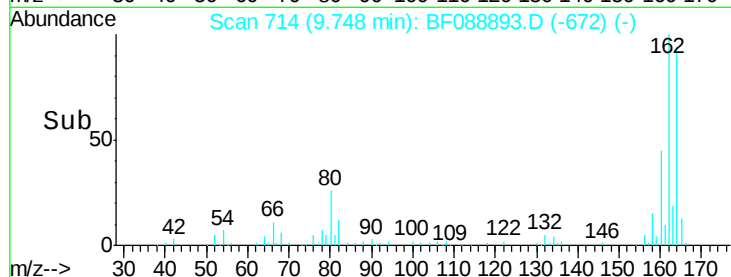
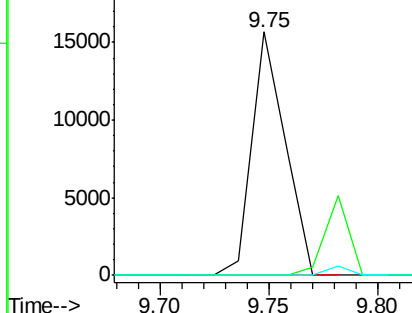
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	28.1	42.1#
89	0.0	32.2	48.2#



Abundance Ion 165.00 (164.70 to 165.70): E

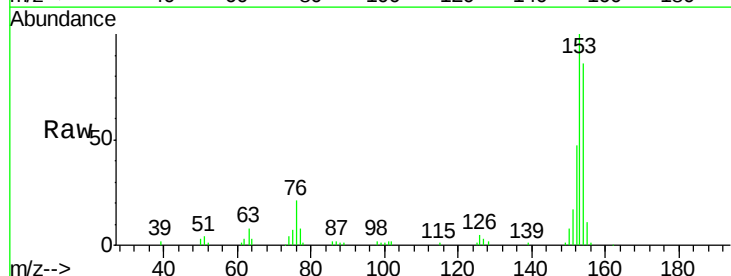
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51
Acenaphthene
Concen: 5.93 ng
RT: 9.78 min Scan# 717
Delta R.T. -0.02 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

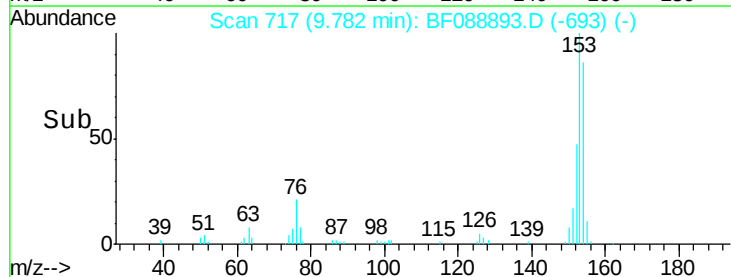
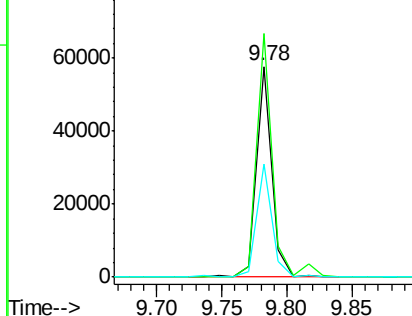
Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.8	89.5	134.3
152	53.8	42.7	64.1

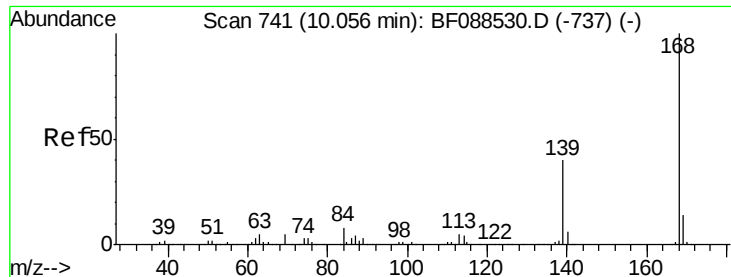


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 2.83 ng

RT: 9.95 min Scan# 732

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleID :

SS-9DL

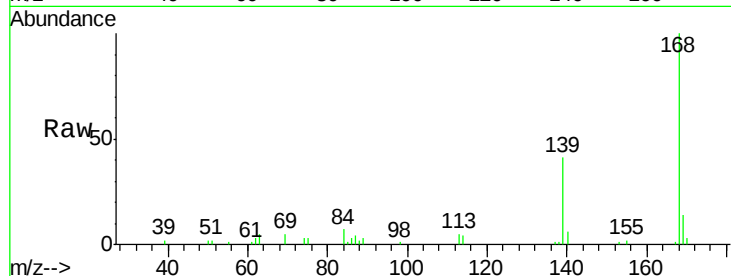
Tgt Ion:168 Resp: 29528

Ion Ratio Lower Upper

168 100

139 40.9 26.4 39.6#

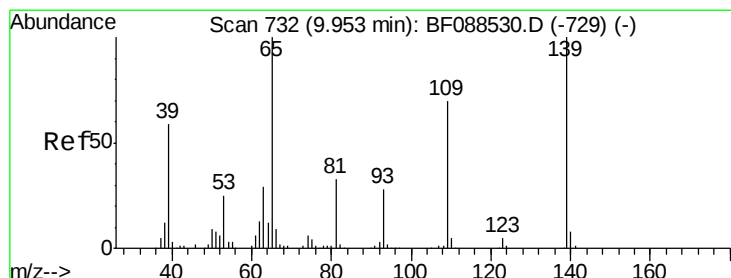
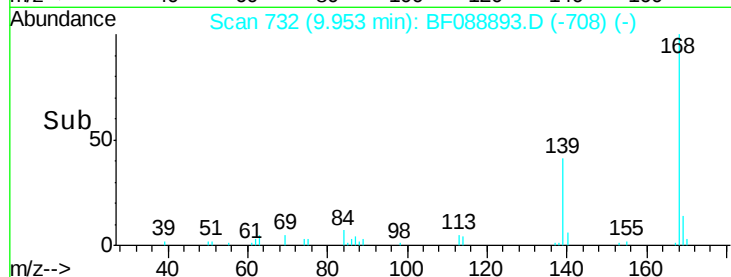
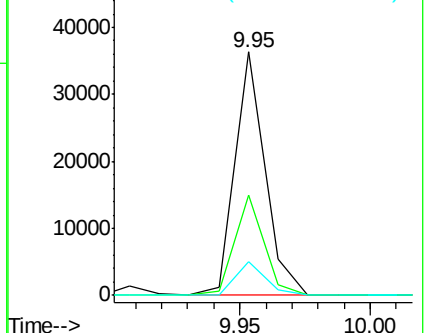
169 13.7 10.4 15.6



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 6.10 ng

RT: 9.95 min Scan# 732

Delta R.T. 0.07 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

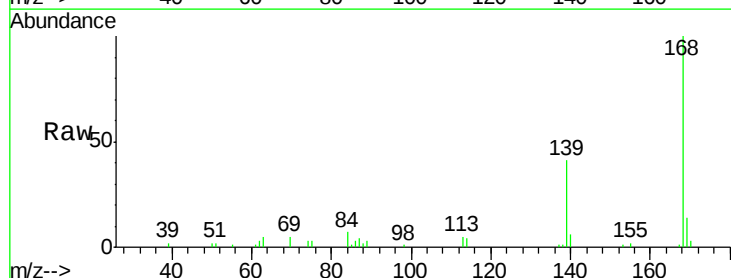
Tgt Ion:139 Resp: 11689

Ion Ratio Lower Upper

139 100

109 0.0 48.9 88.9#

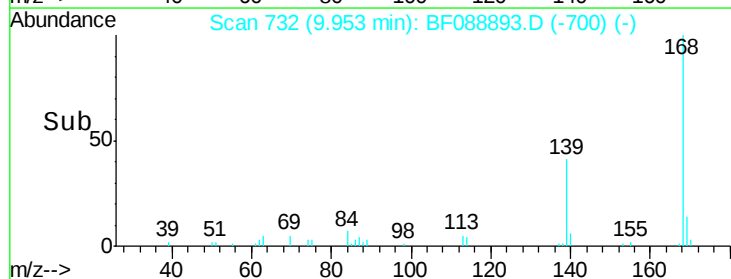
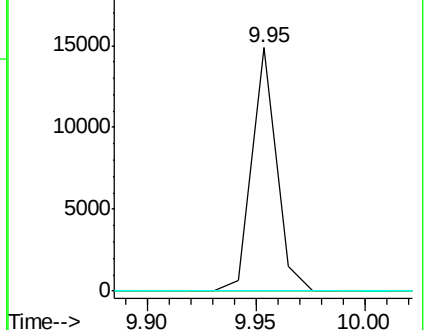
65 0.0 84.9 124.9#

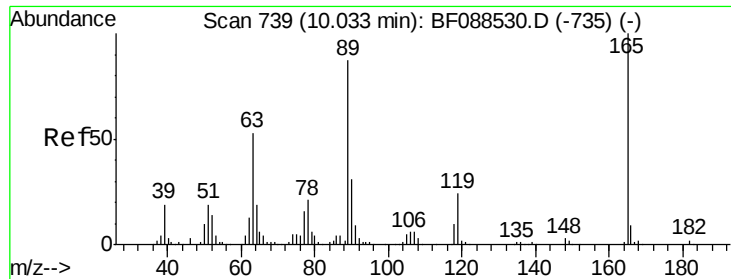


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

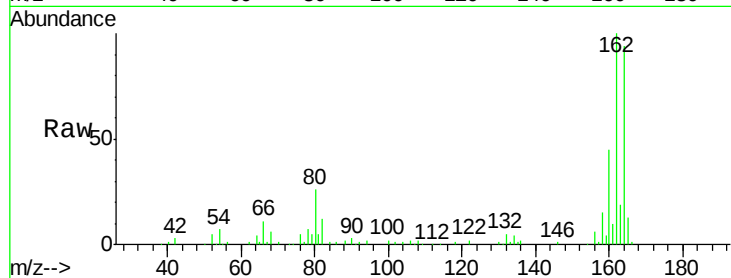




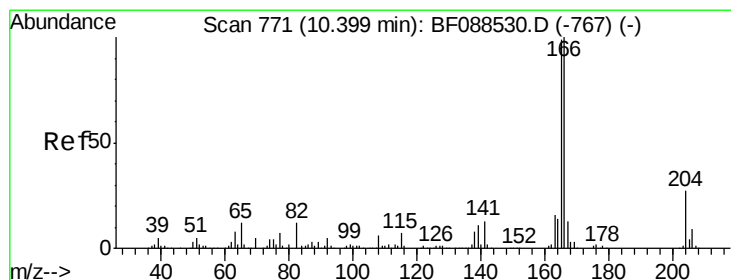
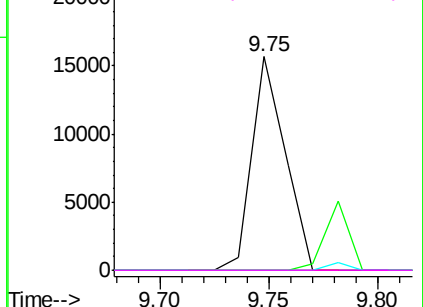
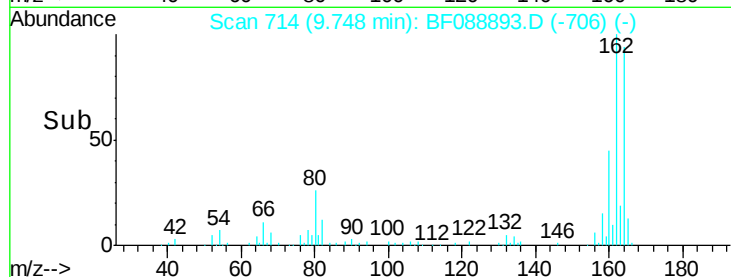
#56
2,4-Dinitrotoluene
Concen: 6.42 ng
RT: 9.75 min Scan# 714
Delta R.T. -0.21 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Instrument :
BNA_F
ClientSampled :
SS-9DL

Tgt Ion:	165	Resp:	16644
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#

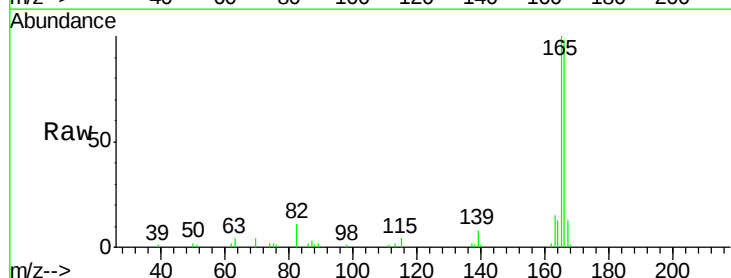


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

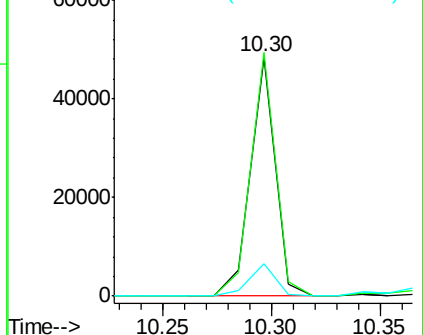
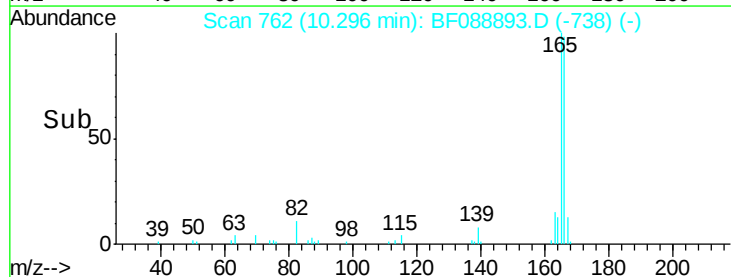


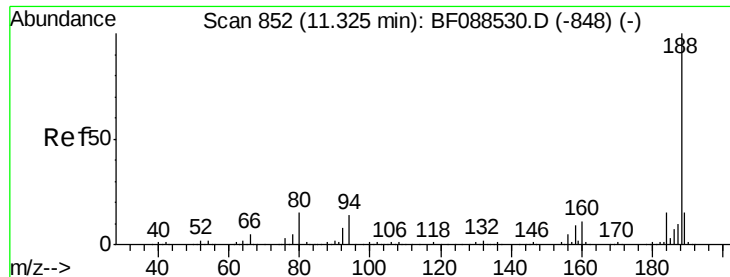
#57
Fluorene
Concen: 4.78 ng
RT: 10.30 min Scan# 762
Delta R.T. -0.02 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Tgt Ion:	166	Resp:	38443
Ion Ratio	Lower	Upper	
166	100		
165	102.0	77.8	116.8
167	13.6	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

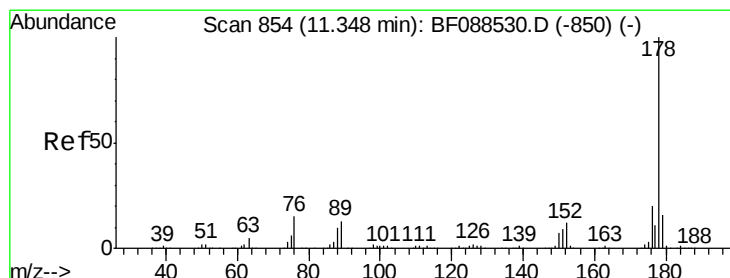
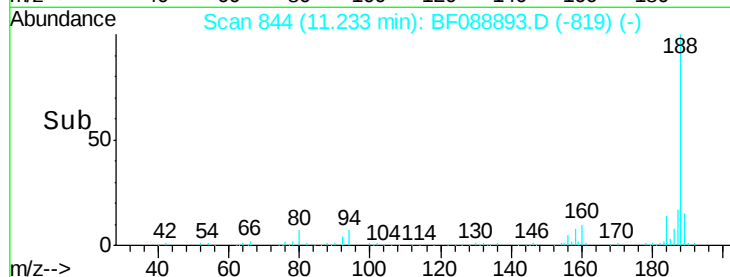
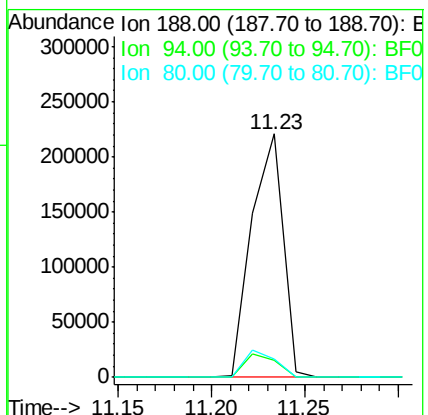
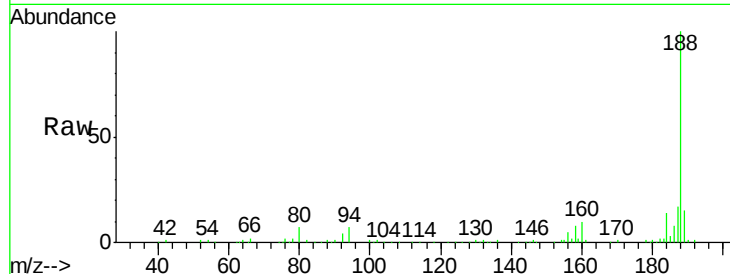




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.23 min Scan# 844
Delta R.T. -0.01 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

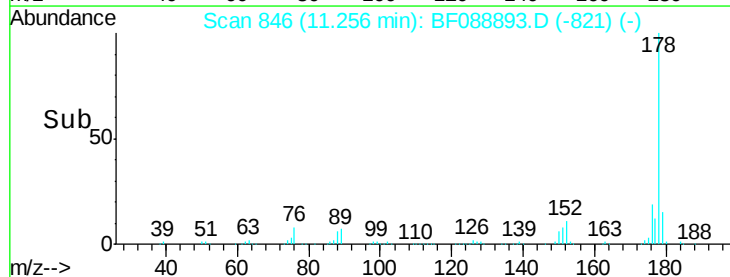
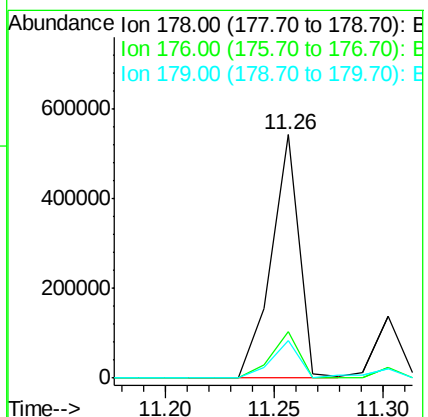
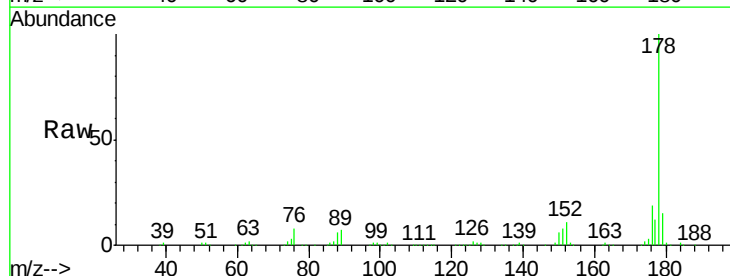
Instrument :
BNA_F
ClientSampleId :
SS-9DL

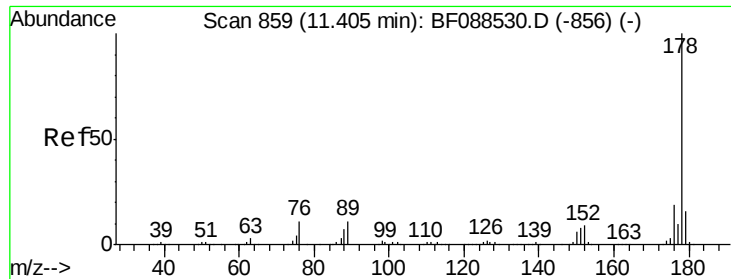
Tgt Ion:188 Resp: 258771
Ion Ratio Lower Upper
188 100
94 7.2 9.0 13.6#
80 7.4 10.0 15.0#



#70
Phenanthrene
Concen: 34.42 ng
RT: 11.26 min Scan# 846
Delta R.T. -0.01 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Tgt Ion:178 Resp: 486935
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.6
179 15.2 13.0 19.4

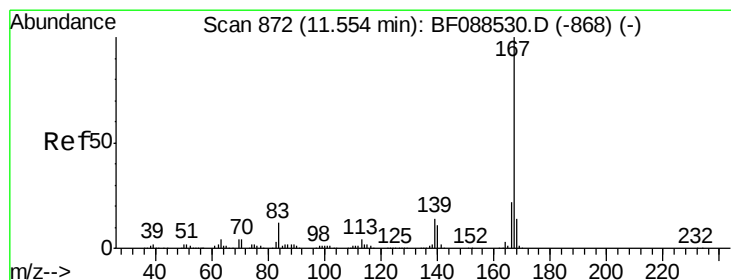
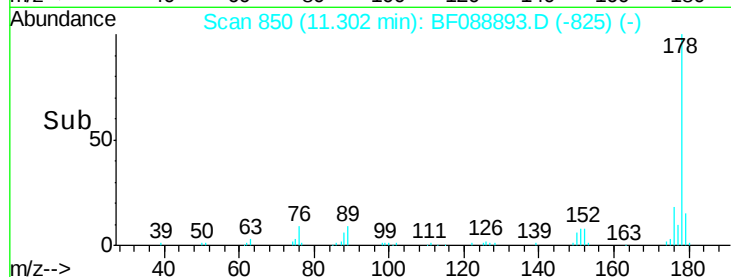
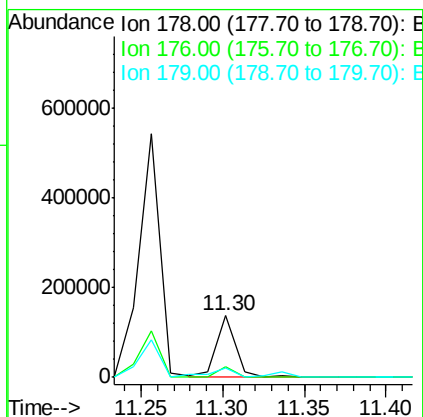
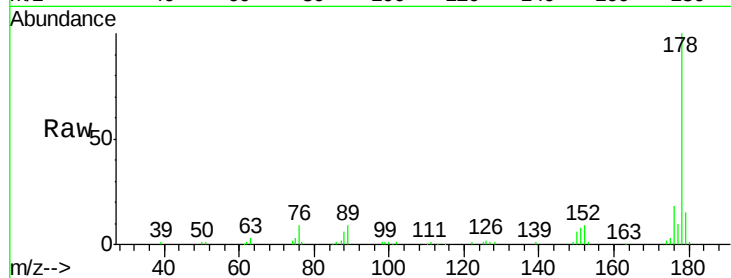




#71
 Anthracene
 Concen: 8.09 ng
 RT: 11.30 min Scan# 850
 Delta R.T. -0.01 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

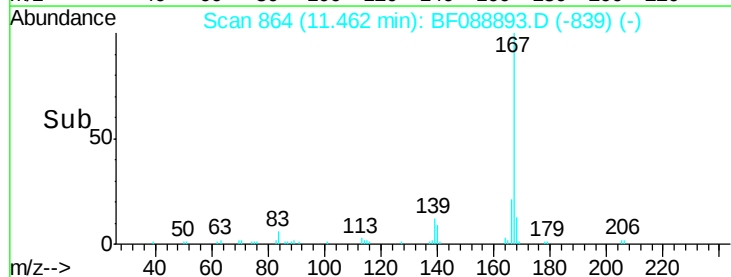
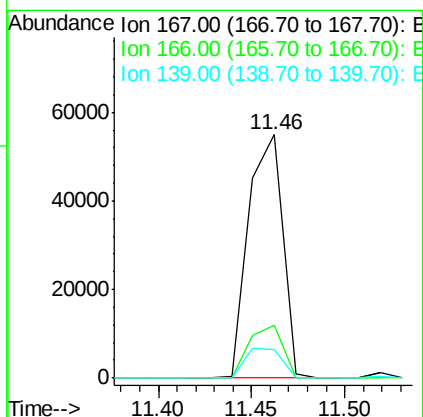
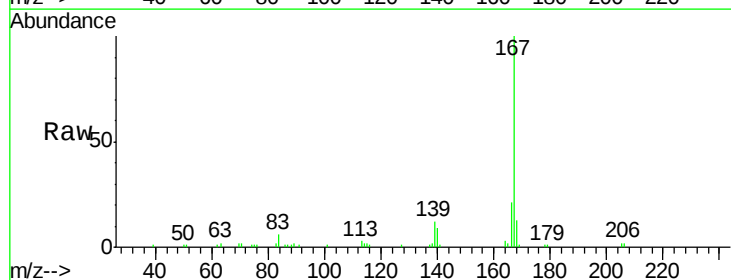
Instrument :
 BNA_F
 ClientSampleId :
 SS-9DL

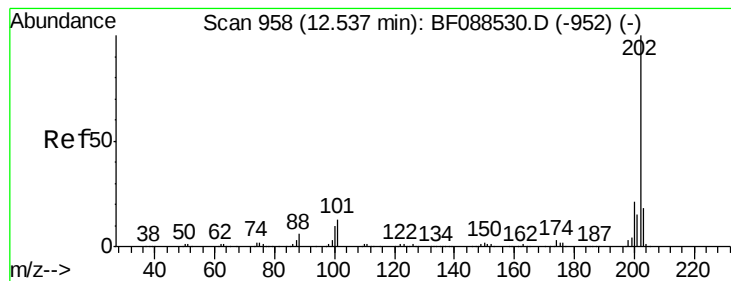
Tgt Ion:178 Resp: 113783
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.6 23.4
 179 15.4 12.8 19.2



#72
 Carbazole
 Concen: 5.25 ng
 RT: 11.46 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Tgt Ion:167 Resp: 69514
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.8 26.6
 139 11.8 11.2 16.8





#74

Fluoranthene

Concen: 36.13 ng

RT: 12.43 min Scan# 949

Delta R.T. -0.01 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

SS-9DL

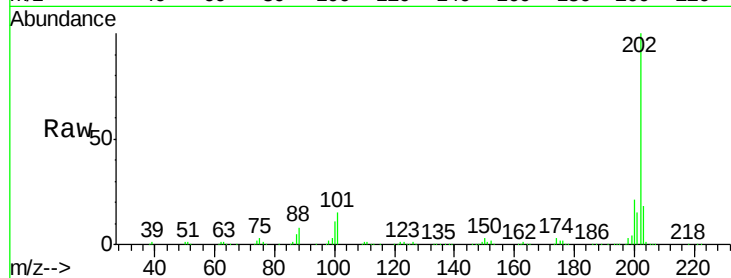
Tgt Ion: 202 Resp: 518085

Ion Ratio Lower Upper

202 100

101 15.0 0.0 33.1

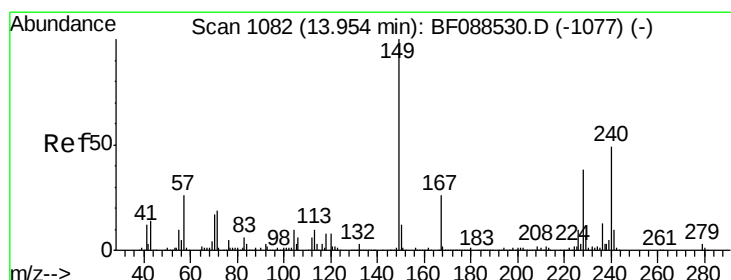
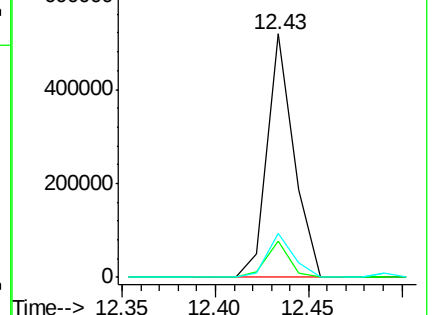
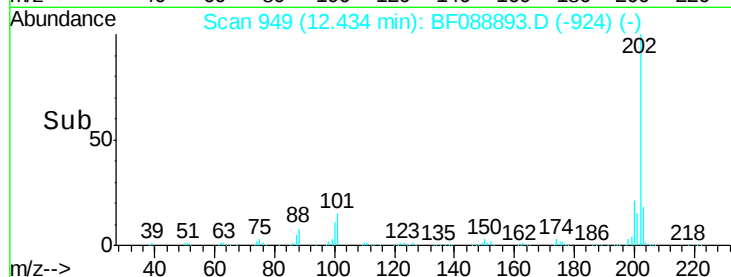
203 17.9 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.85 min Scan# 1073

Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

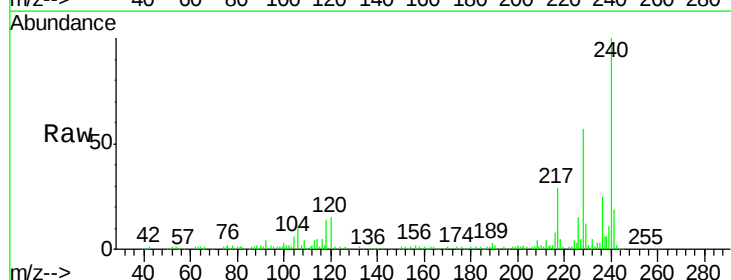
Tgt Ion: 240 Resp: 134729

Ion Ratio Lower Upper

240 100

120 14.9 6.8 10.2#

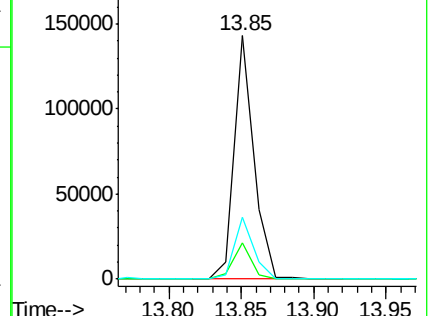
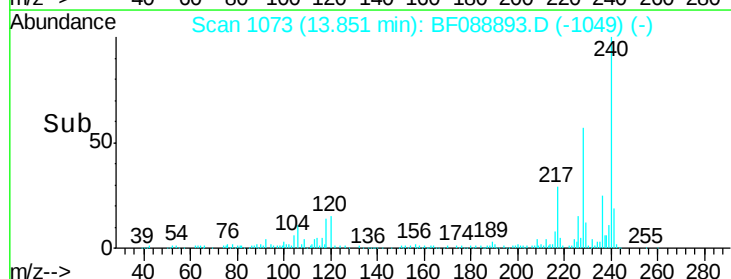
236 25.2 20.2 30.2

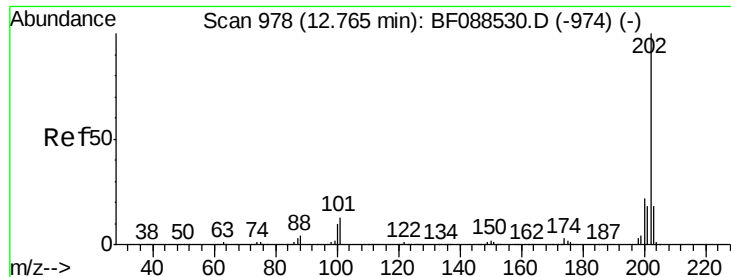


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 40.09 ng

RT: 12.66 min Scan# 969

Delta R.T. -0.01 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

SS-9DL

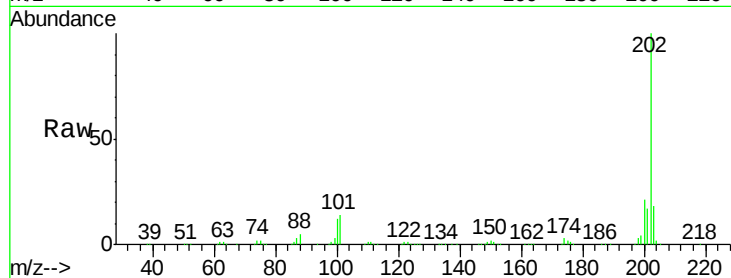
Tgt Ion: 202 Resp: 458000

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

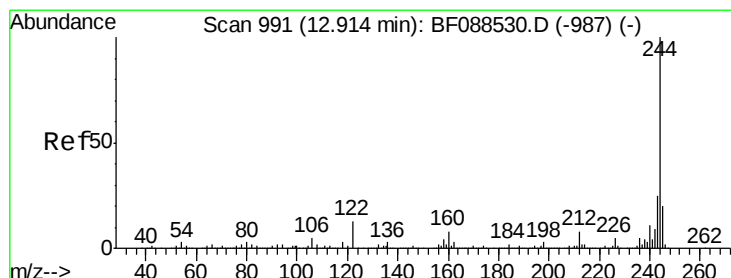
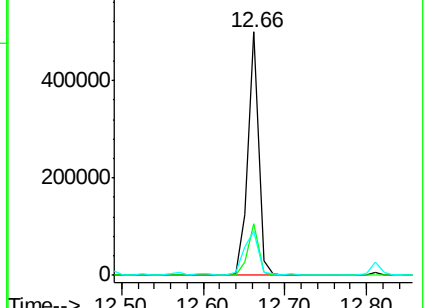
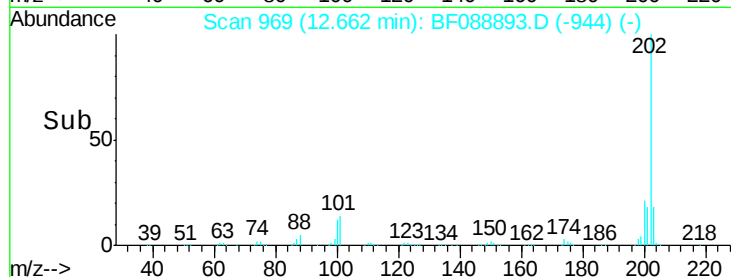
203 18.1 14.5 21.7



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: 0.34 ng

RT: 12.81 min Scan# 982

Delta R.T. -0.01 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

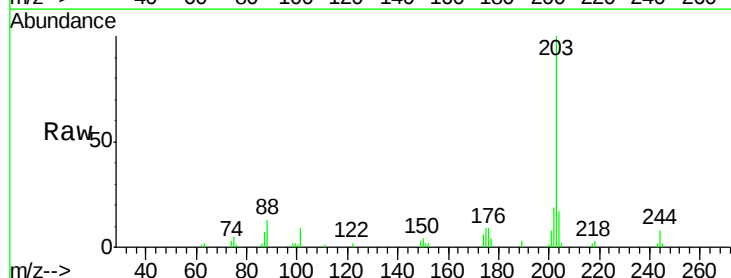
Tgt Ion: 244 Resp: 2049

Ion Ratio Lower Upper

244 100

212 0.0 6.0 9.0#

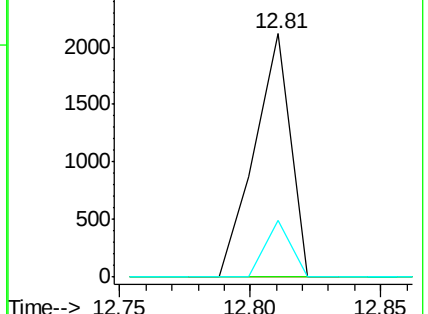
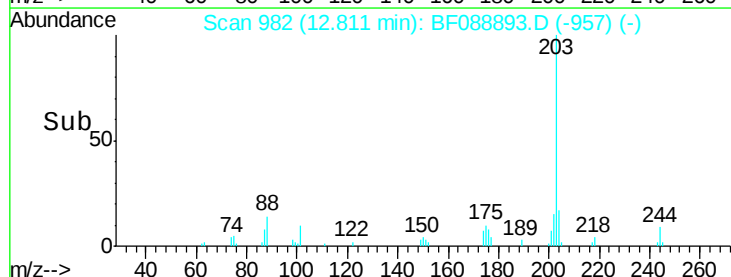
122 23.3 11.2 16.8#

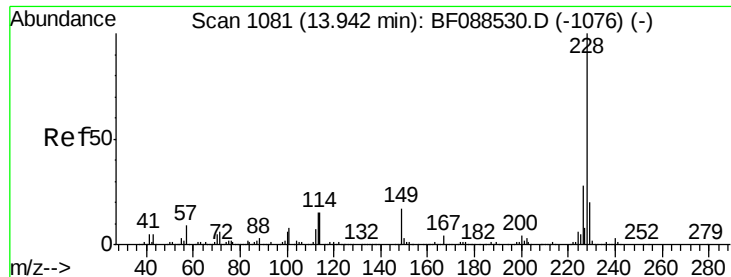


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 23.19 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.01 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

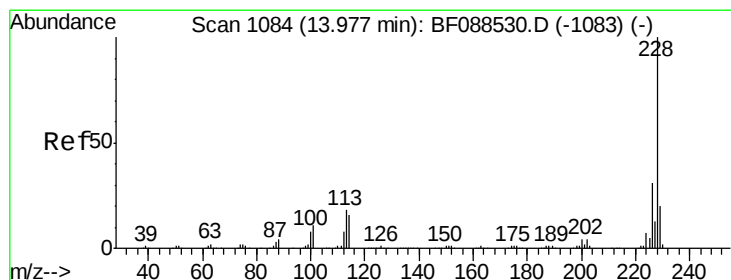
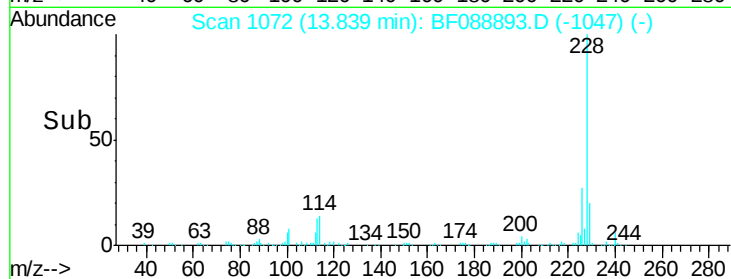
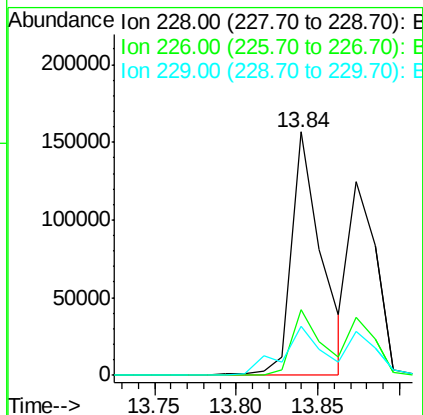
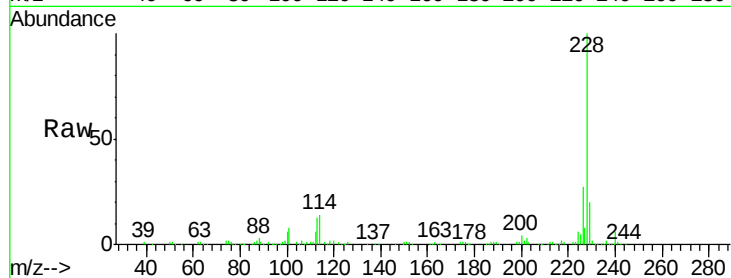
Instrument :

BNA_F

ClientSampleId :

SS-9DL

Tgt Ion:	228	Resp:	201177
Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.3	33.5
229	20.4	16.0	24.0



#82

Chrysene

Concen: 17.09 ng

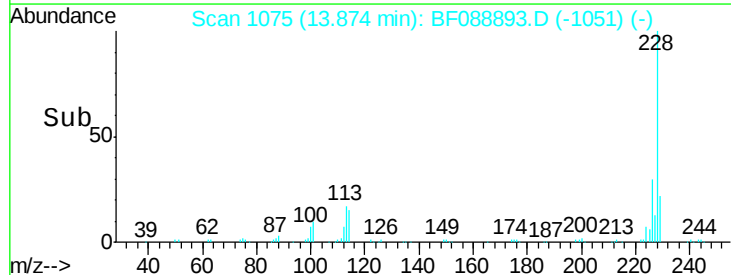
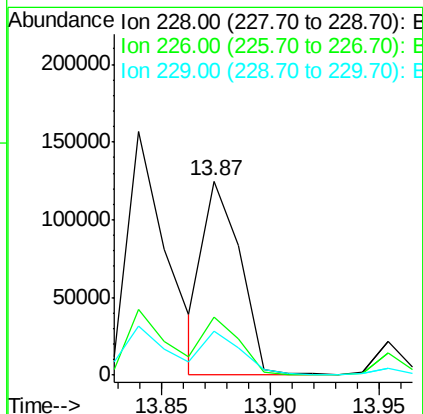
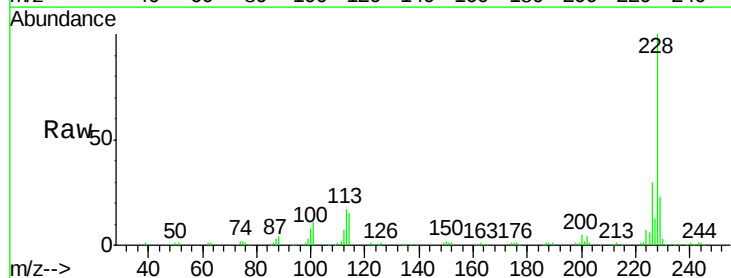
RT: 13.87 min Scan# 1075

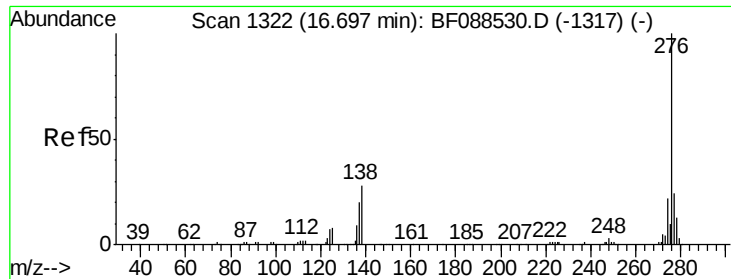
Delta R.T. -0.02 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Tgt Ion:	228	Resp:	146688
Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.4	38.2
229	22.6	16.3	24.5

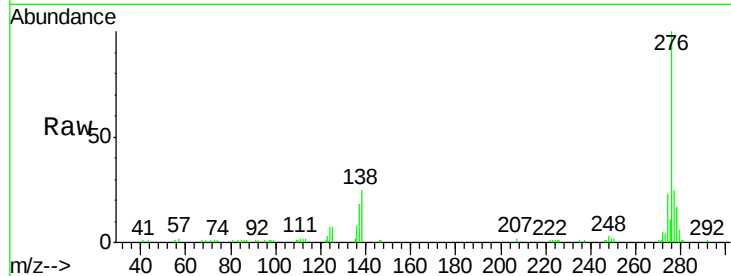




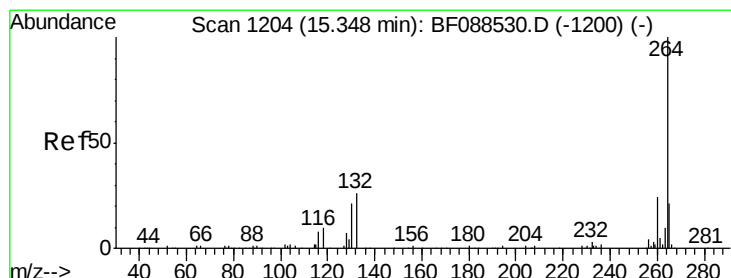
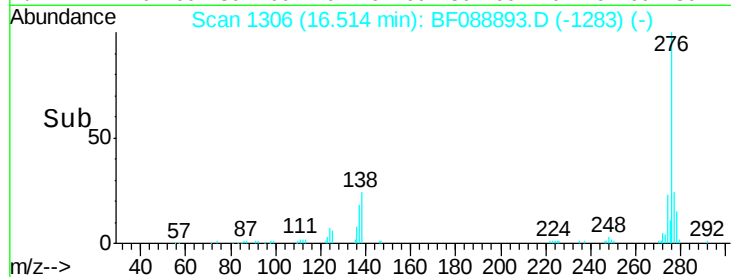
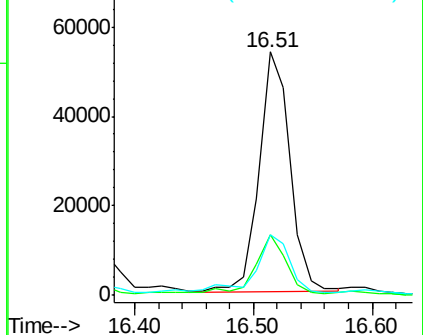
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.67 ng
 RT: 16.51 min Scan# 1306
 Delta R.T. -0.03 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Instrument :
 BNA_F
 ClientSampleId :
 SS-9DL

Tgt Ion: 276 Resp: 96871
 Ion Ratio Lower Upper
 276 100
 138 25.9 0.0 0.0#
 277 30.6 0.0 0.0#

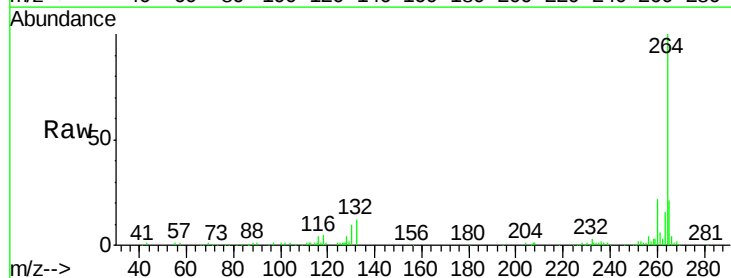


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

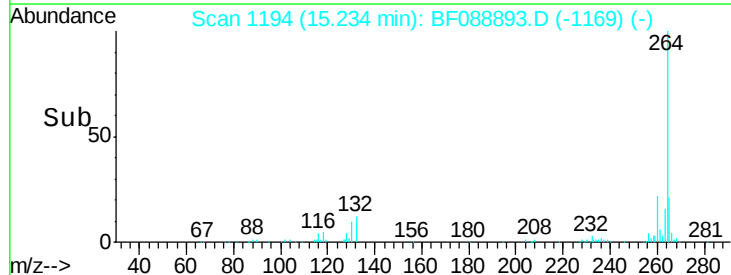
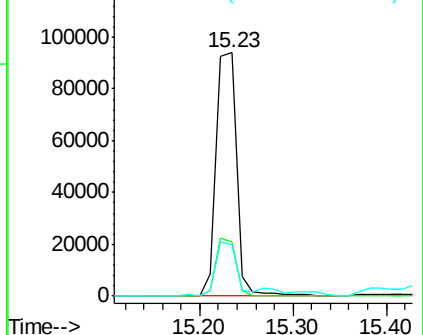


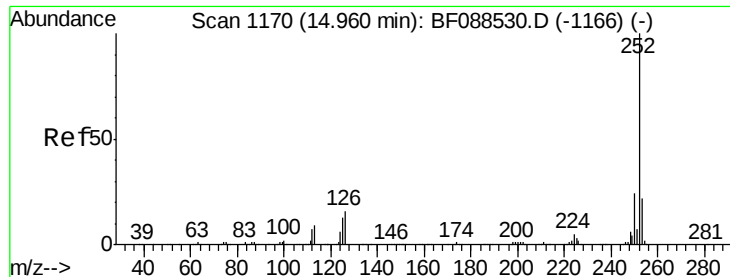
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.23 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Tgt Ion: 264 Resp: 143322
 Ion Ratio Lower Upper
 264 100
 260 22.3 19.2 28.8
 265 21.4 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

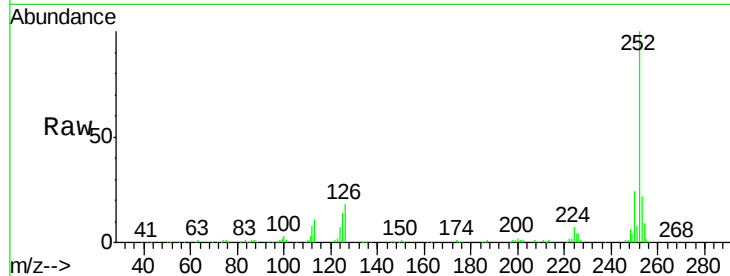




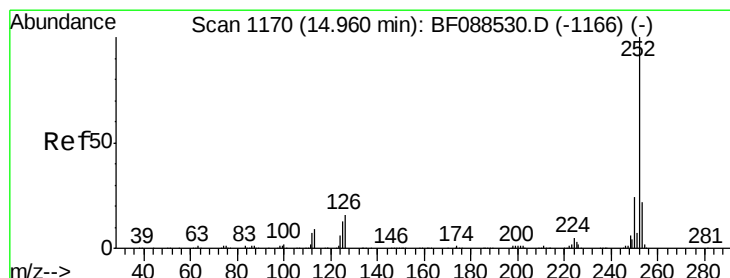
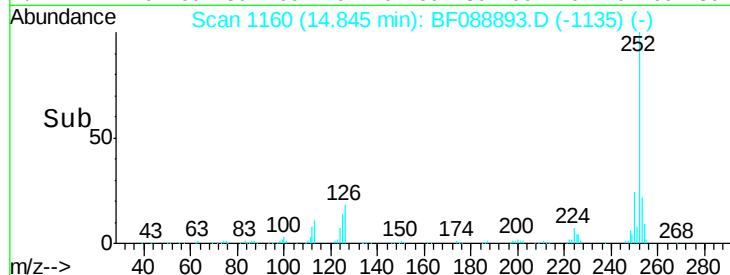
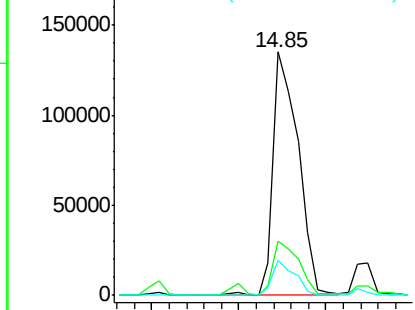
#87
Benzo(b)fluoranthene
Concen: 30.23 ng
RT: 14.85 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Instrument :
BNA_F
ClientSampleId :
SS-9DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.2
125	14.2	7.1	10.7#

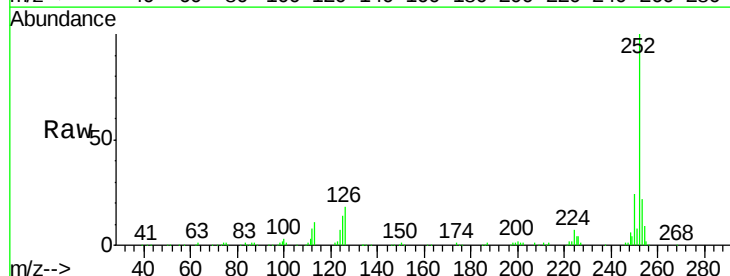


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

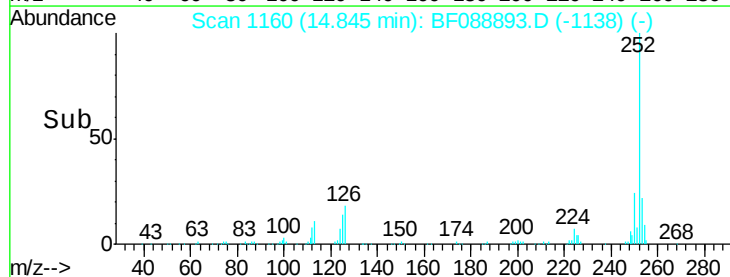
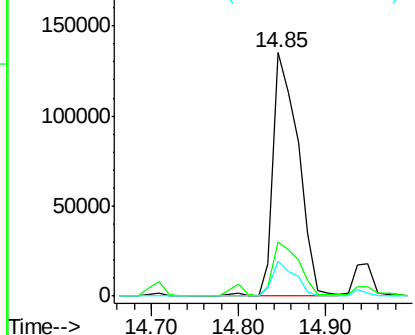


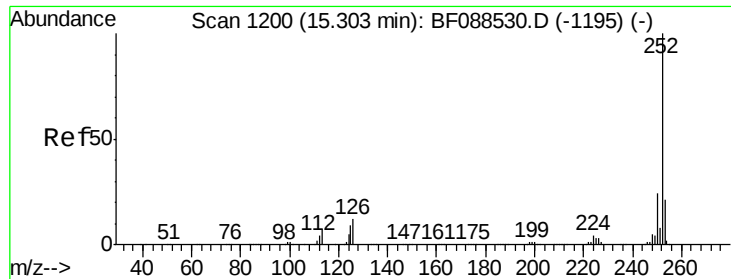
#88
Benzo(k)fluoranthene
Concen: 34.72 ng
RT: 14.85 min Scan# 1160
Delta R.T. -0.05 min
Lab File: BF088893.D
Acq: 10 Jul 2016 2:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	14.2	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: 12.41 ng

RT: 15.12 min Scan# 1184

Delta R.T. -0.07 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

SS-9DL

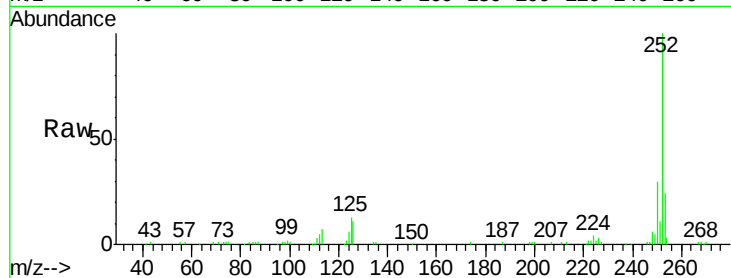
Tgt Ion:252 Resp: 94455

Ion Ratio Lower Upper

252 100

253 23.8 17.9 26.9

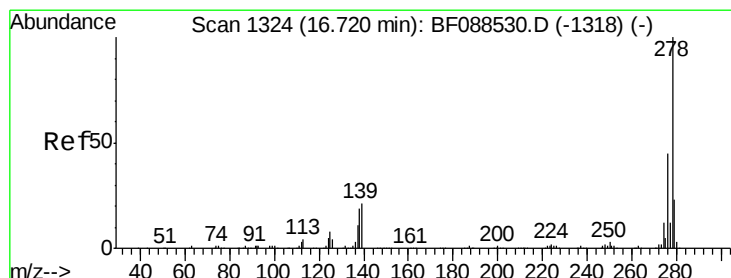
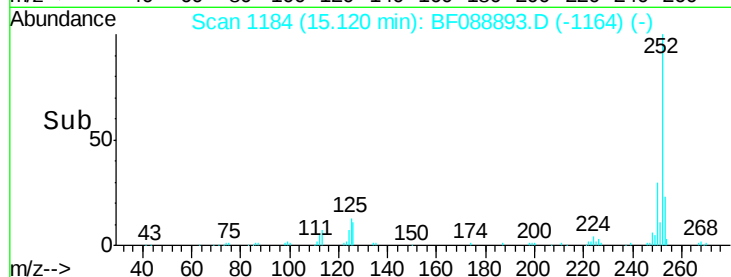
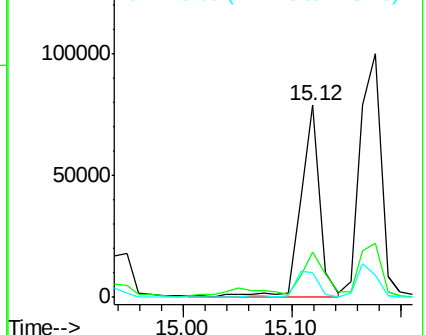
125 13.2 12.5 18.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.94 ng

RT: 16.67 min Scan# 1320

Delta R.T. 0.11 min

Lab File: BF088893.D

Acq: 10 Jul 2016 2:22

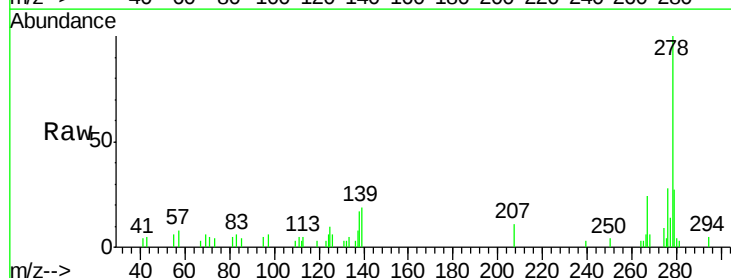
Tgt Ion:278 Resp: 18678

Ion Ratio Lower Upper

278 100

139 19.1 15.7 23.5

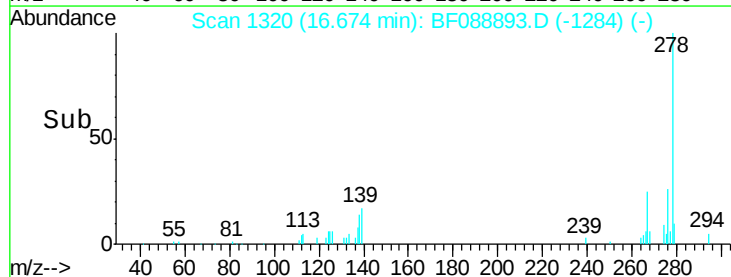
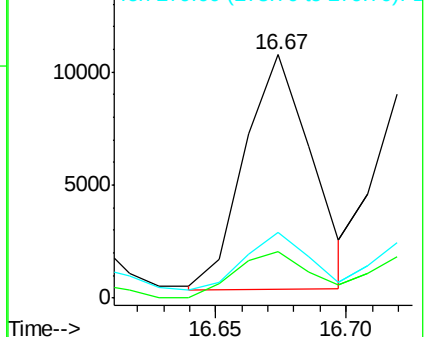
279 27.0 19.4 29.2

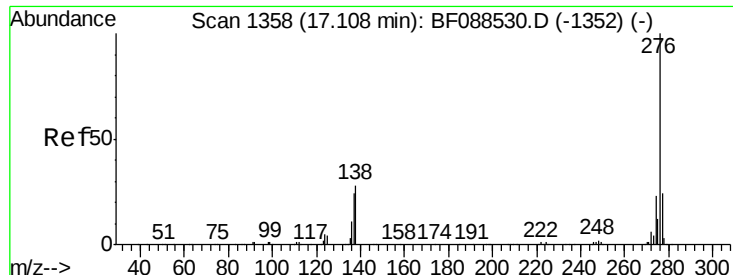


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(g,h,i)perylene
 Concen: 13.93 ng
 RT: 16.90 min Scan# 1340
 Delta R.T. -0.03 min
 Lab File: BF088893.D
 Acq: 10 Jul 2016 2:22

Instrument :
 BNA_F
 ClientSampleId :
 SS-9DL

Tgt Ion:	276	Resp:	91647
Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.9	28.3
138	23.8	21.4	32.2

