

Data Path : S:\HPCHEM1\BNA_F\DATA\BF060916\
 Data File : BF087853.D
 Acq On : 9 Jun 2016 15:33
 Operator : UM/SJ
 Sample : H3399-11 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-31

Quant Time: Jun 09 16:12:41 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 07 18:51:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	121011	20.00	ng	-0.02
21) Naphthalene-d8	8.10	136	447657	20.00	ng	-0.02
38) Acenaphthene-d10	9.85	164	215678	20.00	ng	-0.03
63) Phenanthrene-d10	11.32	188	353484	20.00	ng	-0.03
75) Chrysene-d12	13.95	240	223811	20.00	ng	-0.03
86) Perylene-d12	15.36	264	253179	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	225624	31.87	ng	-0.02
7) Phenol-d6	6.44	99	313704	36.57	ng	-0.03
23) Nitrobenzene-d5	7.38	82	167972	21.91	ng	-0.03
41) 2,4,6-Tribromophenol	10.64	330	56999	25.03	ng	-0.03
44) 2-Fluorobiphenyl	9.18	172	359876	22.12	ng	-0.03
78) Terphenyl-d14	12.91	244	223293	22.70	ng	-0.03

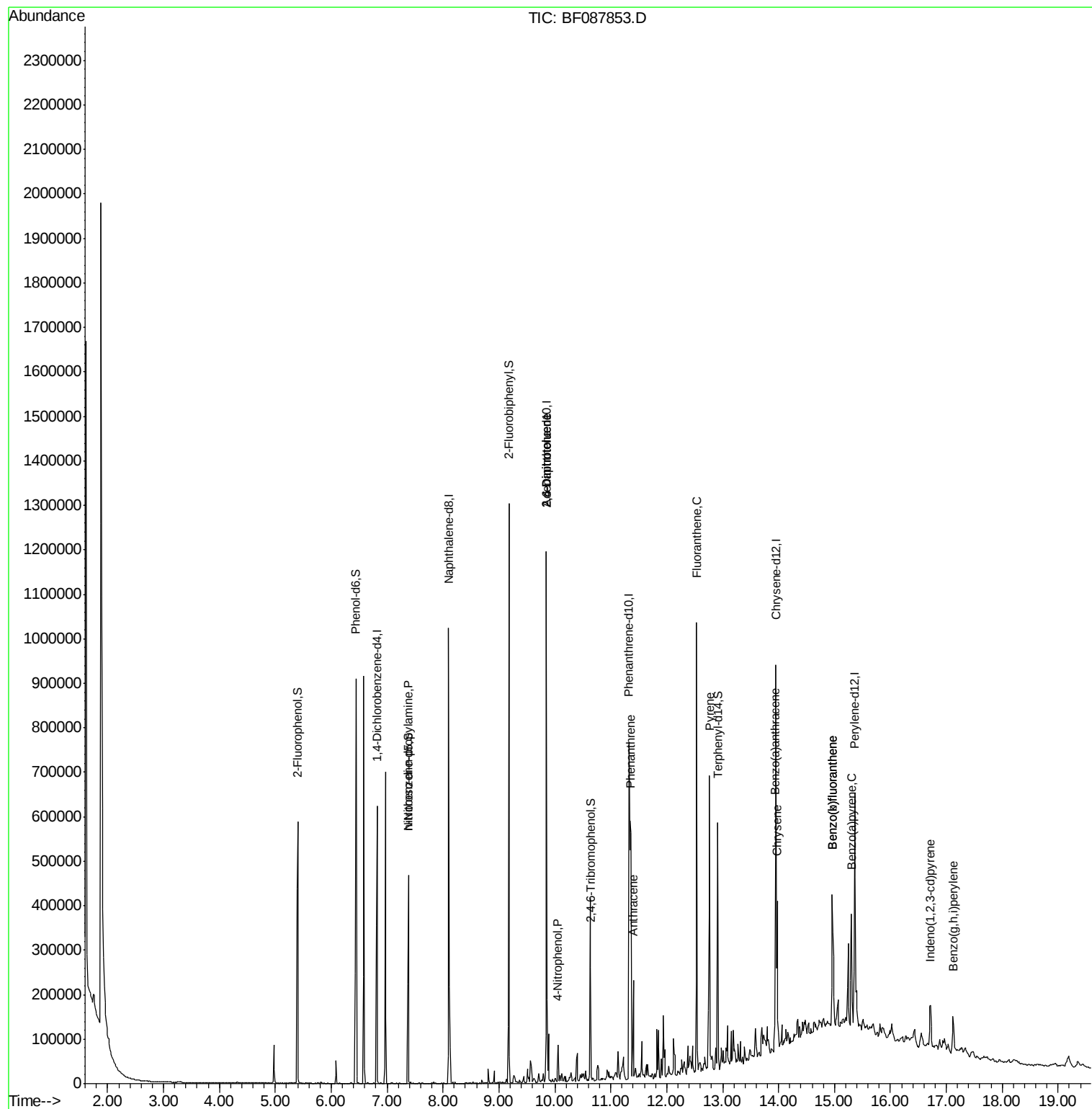
Target Compounds				Qvalue		
10) Phenol	6.46	94	1190	Below Cal		87
19) n-Nitroso-di-n-propylamine	7.38	70	20935	3.81 ng	#	71
45) 1,1'-Biphenyl	9.28	154	4065	Below Cal		95
50) 2,6-Dinitrotoluene	9.85	165	28750	8.04 ng	#	39
55) 4-Nitrophenol	10.06	139	9784	3.05 ng	#	5
56) 2,4-Dinitrotoluene	9.85	165	28745	6.25 ng	#	38
57) Fluorene	10.40	166	23524	Below Cal		96
70) Phenanthrene	11.36	178	334054	18.01 ng		97
71) Anthracene	11.40	178	91574	4.89 ng		97
74) Fluoranthene	12.54	202	372355	19.02 ng		98
77) Pyrene	12.76	202	304732	18.35 ng		98
80) Benzo(a)anthracene	13.94	228	149002	11.68 ng		100
82) Chrysene	13.98	228	99622	8.30 ng		96
85) Indeno(1,2,3-cd)pyrene	16.71	276	65060	5.84 ng	#	100
87) Benzo(b)fluoranthene	14.96	252	209161	11.85 ng	#	94
88) Benzo(k)fluoranthene	14.96	252	209161	15.71 ng		99
89) Benzo(a)pyrene	15.30	252	114483	8.02 ng		96
91) Benzo(g,h,i)perylene	17.12	276	59904	4.39 ng		97

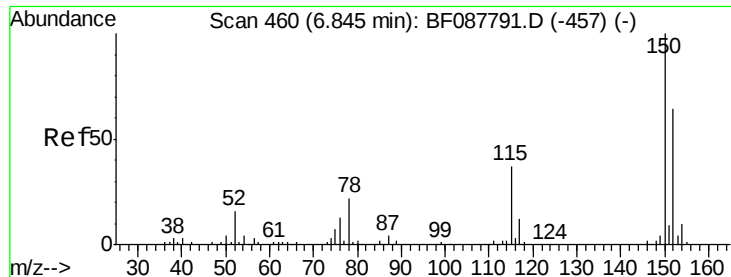
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 458

Delta R.T. -0.02 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Instrument :

BNA_F

ClientSampleId :

SS-31

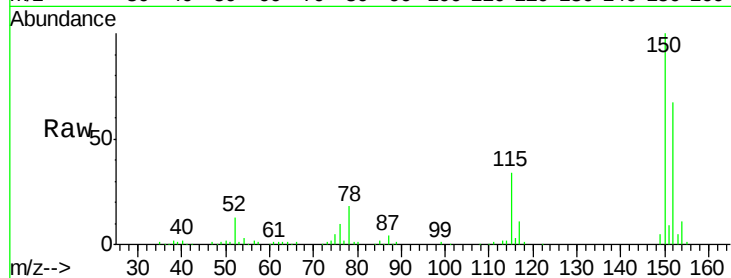
Tgt Ion:152 Resp: 121011

Ion Ratio Lower Upper

152 100

150 149.7 123.8 185.6

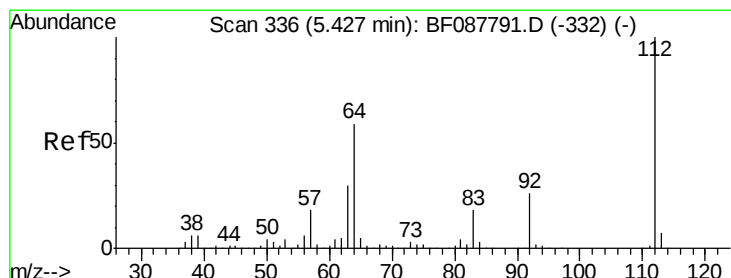
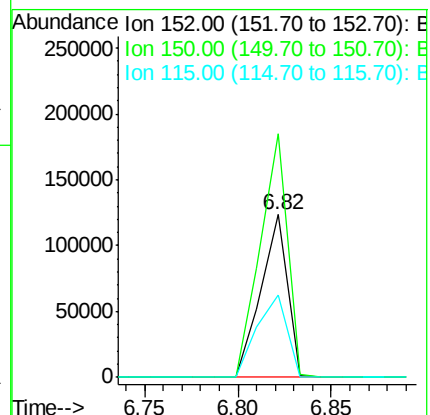
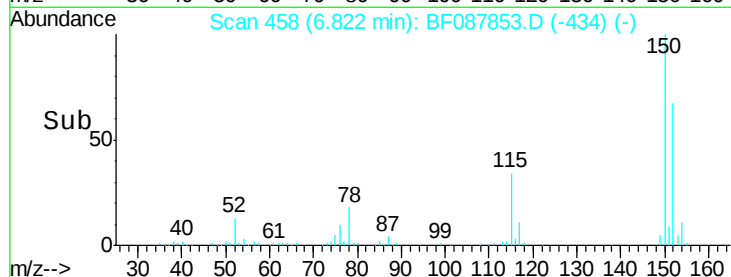
115 50.9 39.6 59.4



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: 31.87 ng

RT: 5.40 min Scan# 334

Delta R.T. -0.02 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

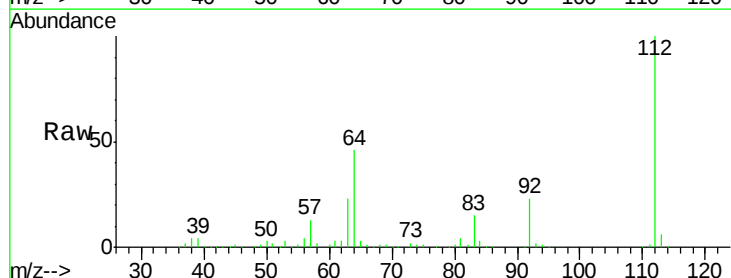
Tgt Ion:112 Resp: 225624

Ion Ratio Lower Upper

112 100

64 46.3 42.2 63.2

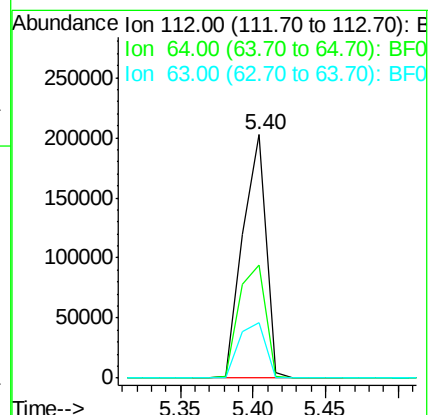
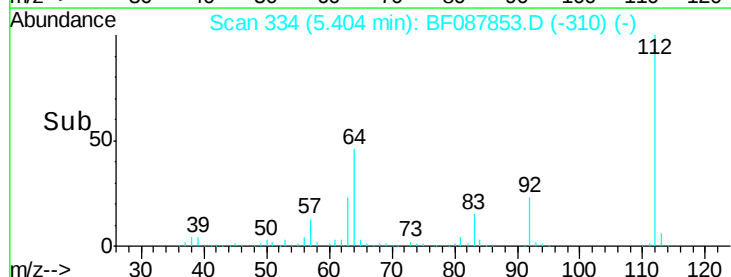
63 22.9 21.8 32.8

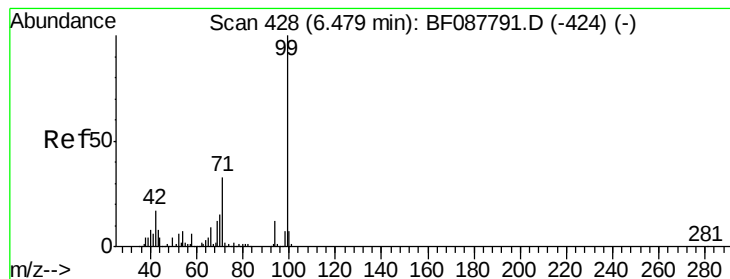


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 36.57 ng

RT: 6.44 min Scan# 425

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Instrument :

BNA_F

ClientSampleId :

SS-31

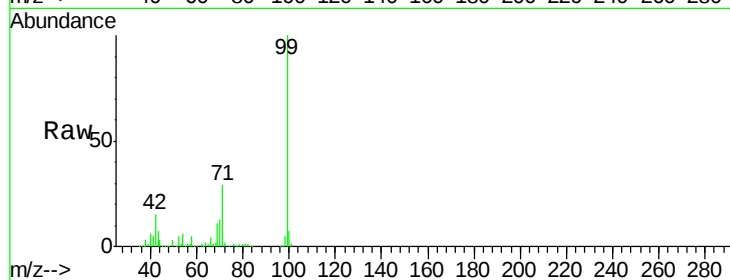
Tgt Ion: 99 Resp: 313704

Ion Ratio Lower Upper

99 100

42 14.6 12.2 18.2

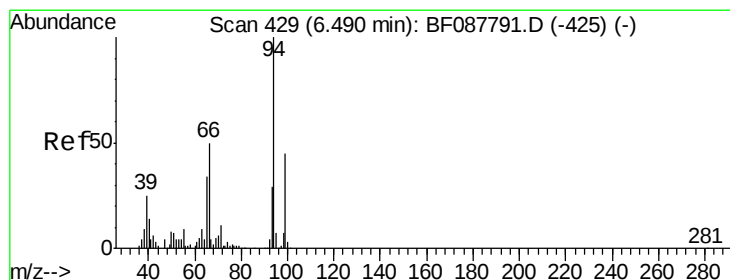
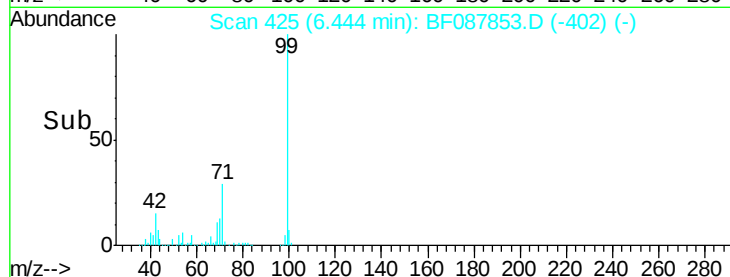
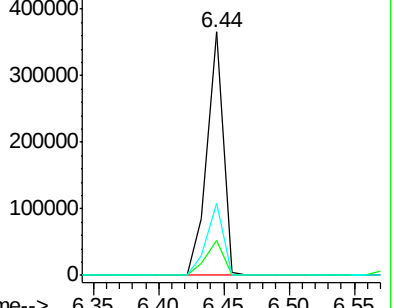
71 29.4 23.4 35.0



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



#10

Phenol

Concen: Below Cal

RT: 6.46 min Scan# 426

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

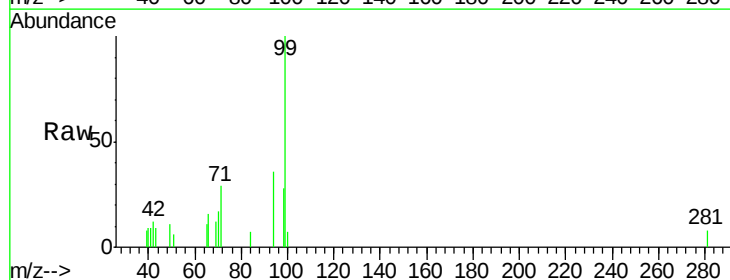
Tgt Ion: 94 Resp: 1190

Ion Ratio Lower Upper

94 100

65 29.6 5.9 45.9

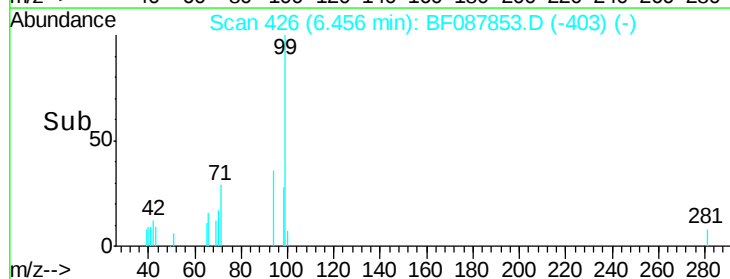
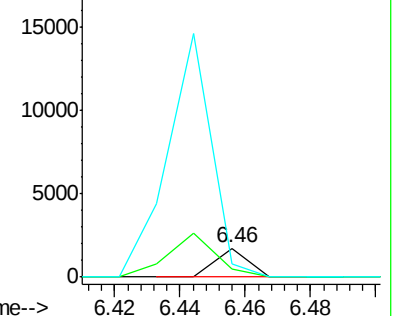
66 44.1 14.0 54.0



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

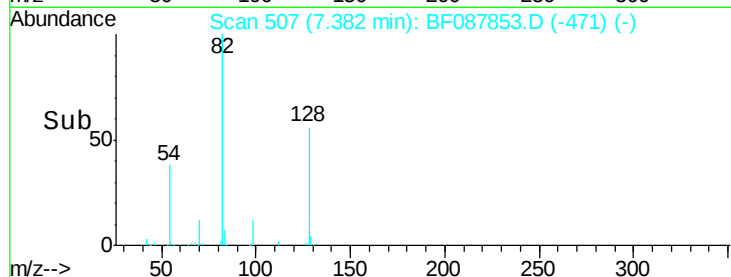
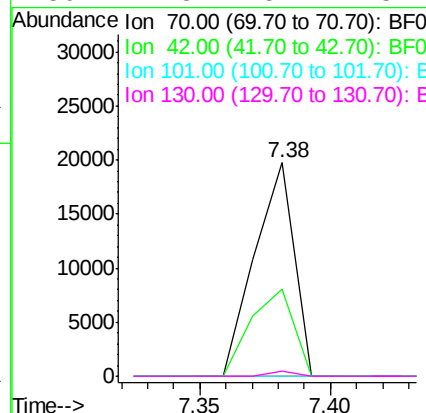
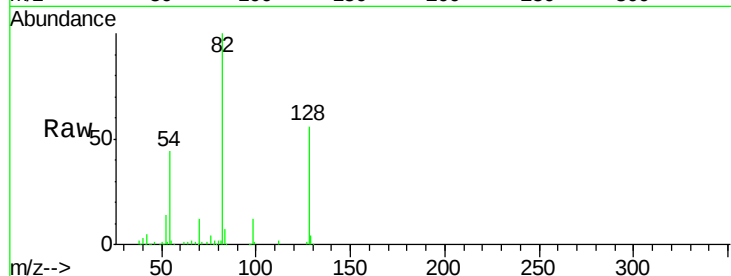




#19
 n-Nitroso-di-n-propylamine
 Concen: 3.81 ng
 RT: 7.38 min Scan# 507
 Delta R.T. 0.11 min
 Lab File: BF087853.D
 Acq: 9 Jun 2016 15:33

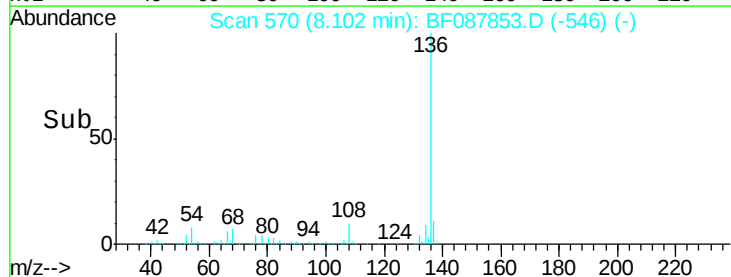
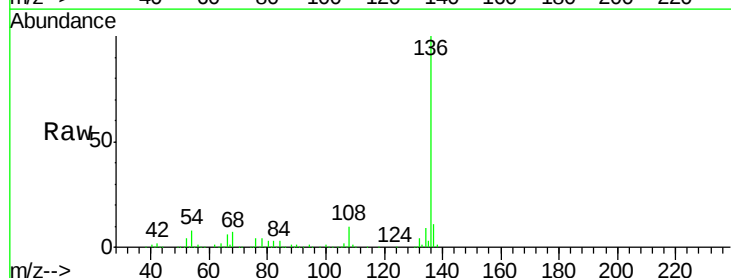
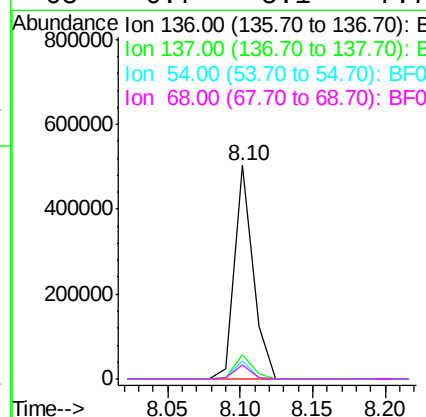
Instrument :
 BNA_F
 ClientSampleId :
 SS-31

Tgt Ion: 70 Resp: 20935
 Ion Ratio Lower Upper
 70 100
 42 40.7 49.6 74.4#
 101 0.0 7.1 10.7#
 130 2.3 15.4 23.2#



#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 8.10 min Scan# 570
 Delta R.T. -0.02 min
 Lab File: BF087853.D
 Acq: 9 Jun 2016 15:33

Tgt Ion: 136 Resp: 447657
 Ion Ratio Lower Upper
 136 100
 137 11.4 9.1 13.7
 54 8.4 6.6 10.0
 68 6.7 5.1 7.7





#23

Nitrobenzene-d5

Concen: 21.91 ng

RT: 7.38 min Scan# 507

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Instrument :

BNA_F

ClientSampled :

SS-31

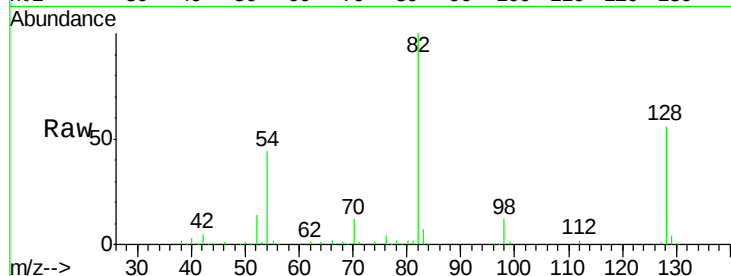
Tgt Ion: 82 Resp: 167972

Ion Ratio Lower Upper

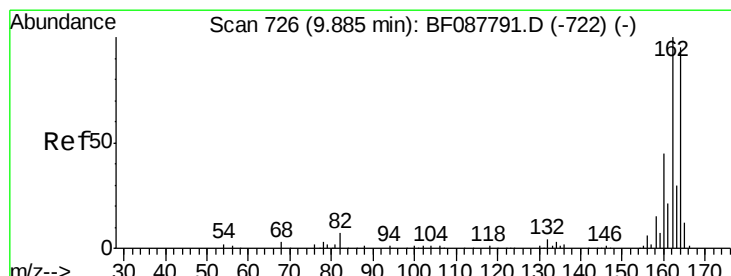
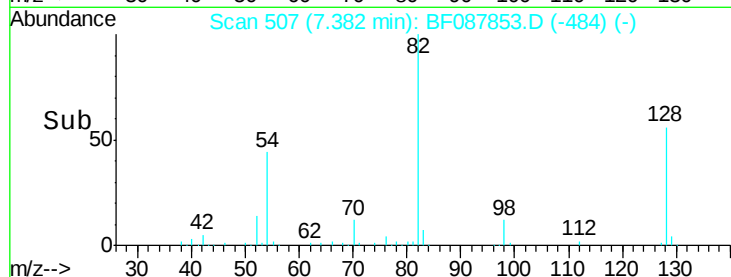
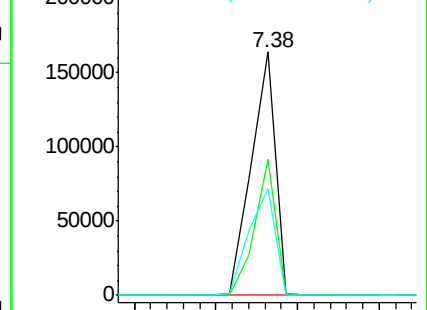
82 100

128 55.7 35.9 53.9#

54 43.6 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: 9.85 min Scan# 723

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

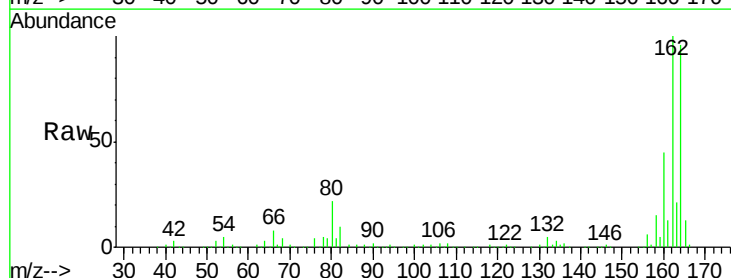
Tgt Ion: 164 Resp: 215678

Ion Ratio Lower Upper

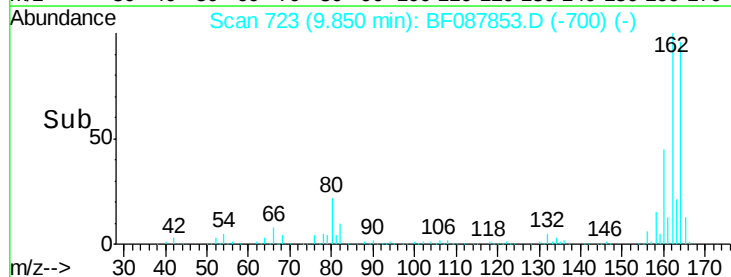
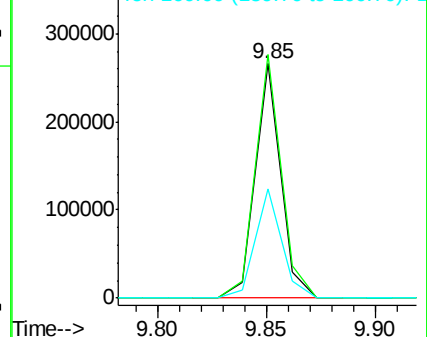
164 100

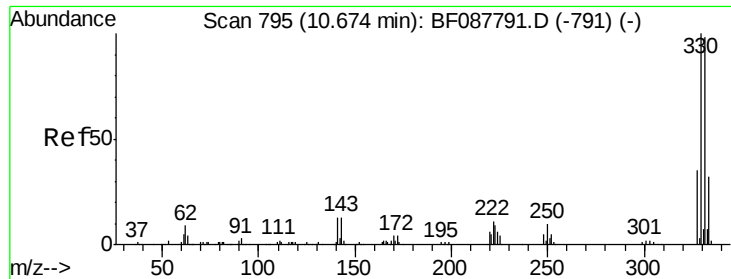
162 103.9 85.4 128.2

160 46.4 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

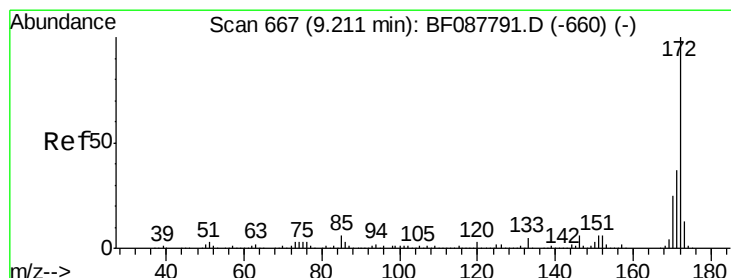
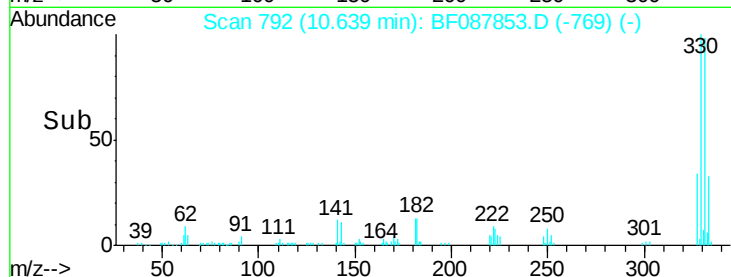
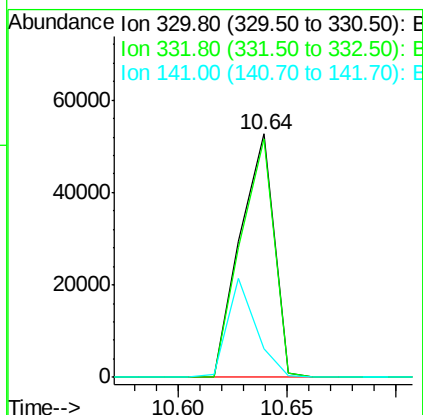
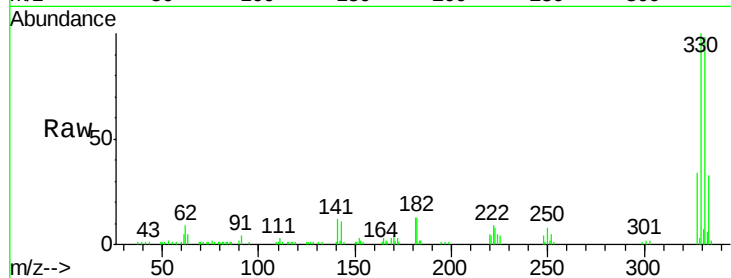




#41
 2,4,6-Tribromophenol
 Concen: 25.03 ng
 RT: 10.64 min Scan# 792
 Delta R.T. -0.03 min
 Lab File: BF087853.D
 Acq: 9 Jun 2016 15:33

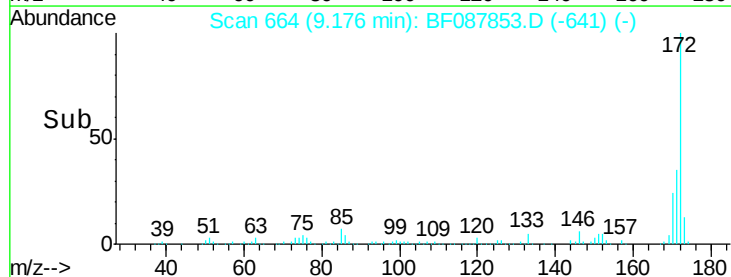
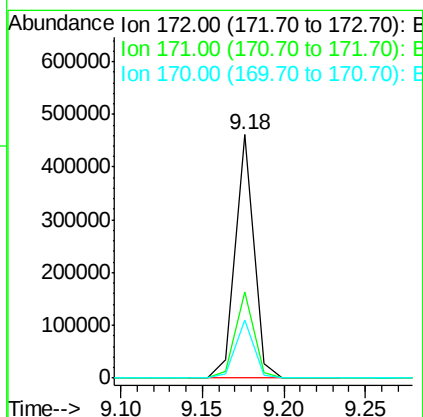
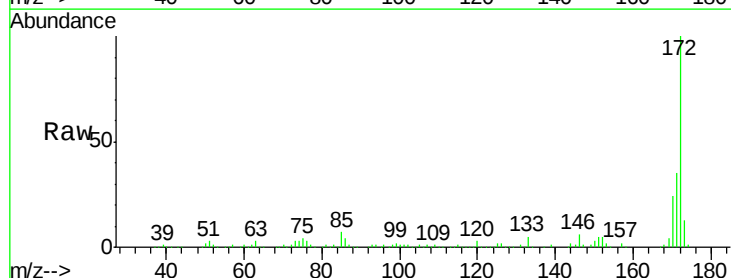
Instrument :
 BNA_F
 ClientSampleId :
 SS-31

Tgt Ion:330 Resp: 56999
 Ion Ratio Lower Upper
 330 100
 332 97.4 0.0 0.0#
 141 34.4 0.0 0.0#



#44
 2-Fluorobiphenyl
 Concen: 22.12 ng
 RT: 9.18 min Scan# 664
 Delta R.T. -0.03 min
 Lab File: BF087853.D
 Acq: 9 Jun 2016 15:33

Tgt Ion:172 Resp: 359876
 Ion Ratio Lower Upper
 172 100
 171 35.3 28.6 43.0
 170 23.7 19.2 28.8





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.28 min Scan# 673

Delta R.T. -0.02 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Instrument :

BNA_F

ClientSampleId :

SS-31

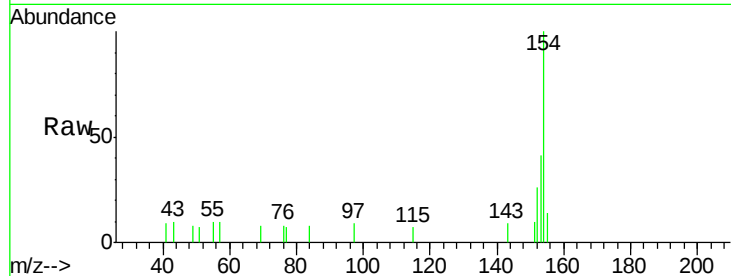
Tgt Ion:154 Resp: 4065

Ion Ratio Lower Upper

154 100

153 40.8 20.6 60.6

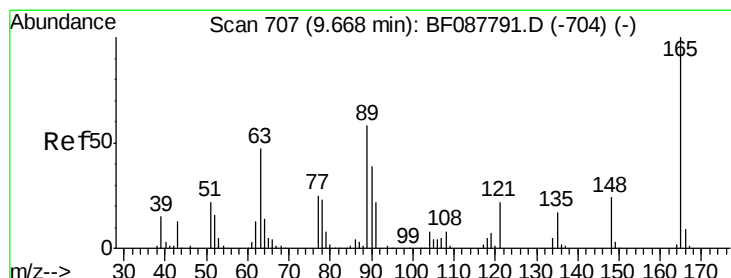
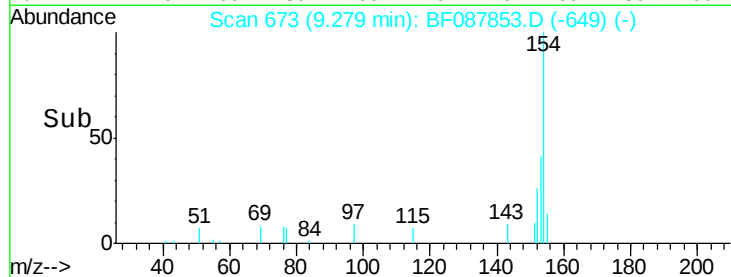
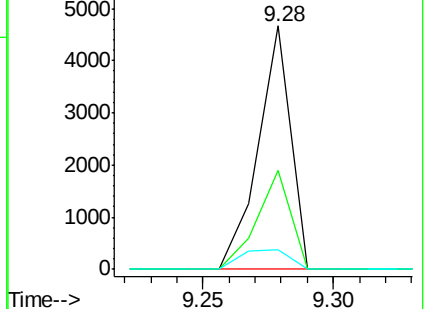
76 8.2 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#50

2,6-Dinitrotoluene

Concen: 8.04 ng

RT: 9.85 min Scan# 723

Delta R.T. 0.18 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

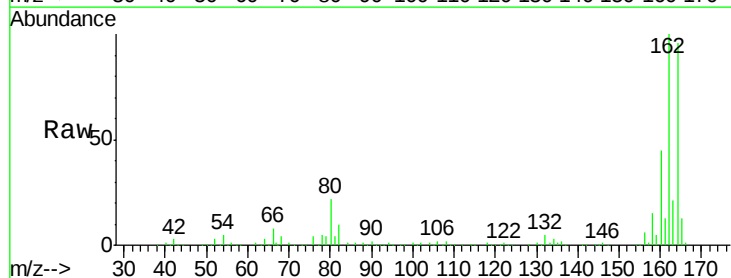
Tgt Ion:165 Resp: 28750

Ion Ratio Lower Upper

165 100

63 1.3 28.1 42.1#

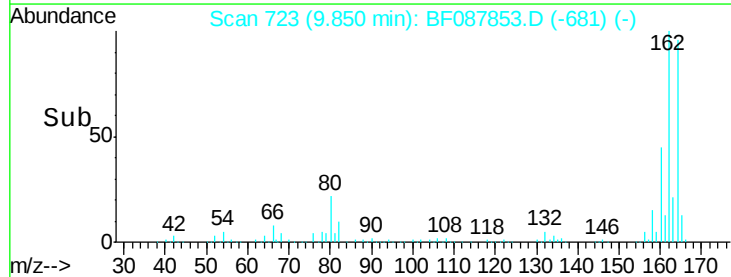
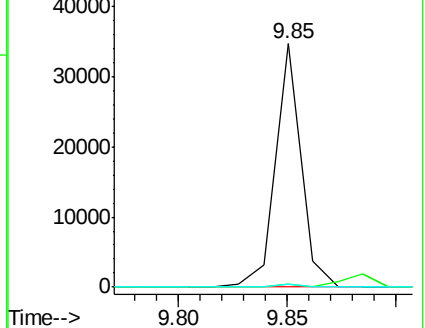
89 1.4 32.2 48.2#

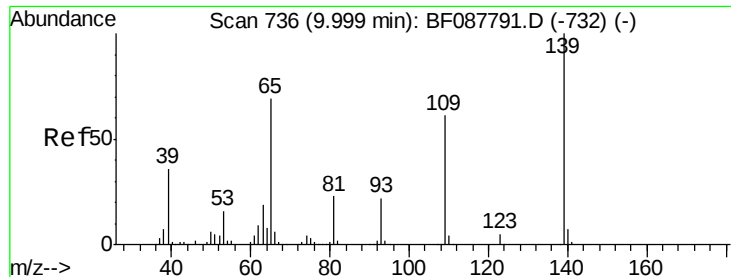


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#55

4-Nitrophenol

Concen: 3.05 ng

RT: 10.06 min Scan# 741

Delta R.T. 0.06 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Instrument :

BNA_F

ClientSampleId :

SS-31

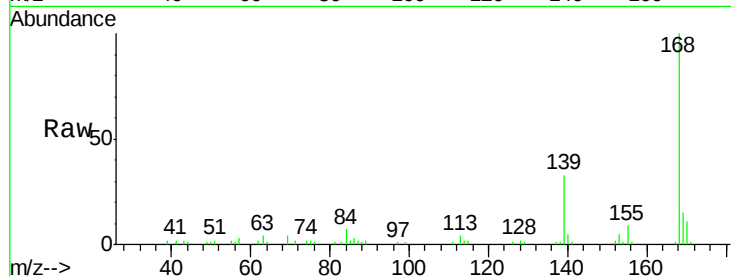
Tgt Ion:139 Resp: 9784

Ion Ratio Lower Upper

139 100

109 0.0 48.9 88.9#

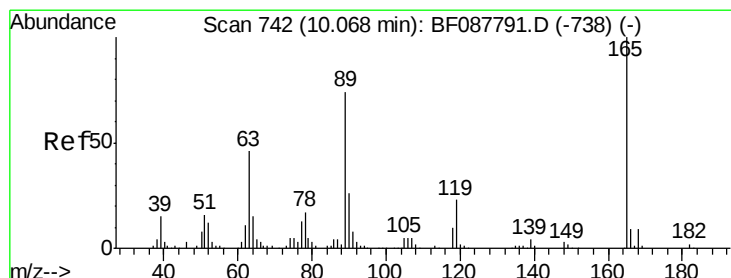
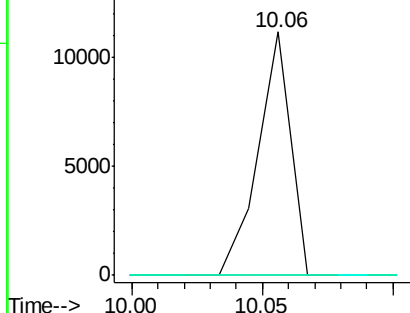
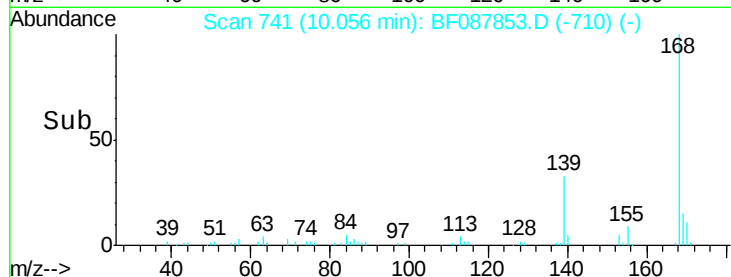
65 0.0 84.9 124.9#



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: 6.25 ng

RT: 9.85 min Scan# 723

Delta R.T. -0.22 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Tgt Ion:165 Resp: 28745

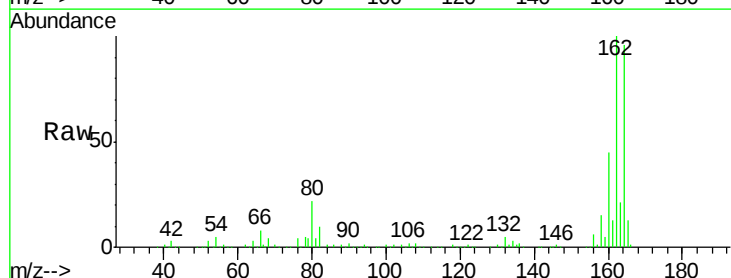
Ion Ratio Lower Upper

165 100

63 1.3 22.0 33.0#

89 1.4 41.1 61.7#

182 0.0 2.0 3.0#

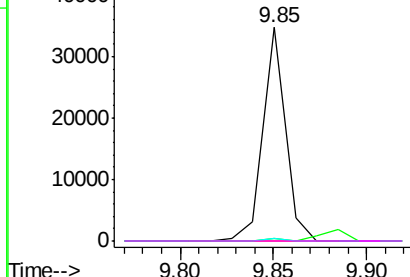
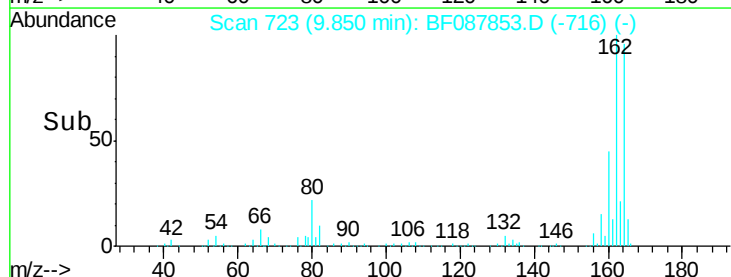


Abundance Ion 165.00 (164.70 to 165.70): E

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

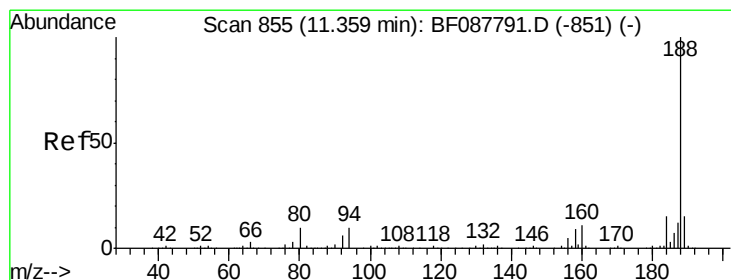
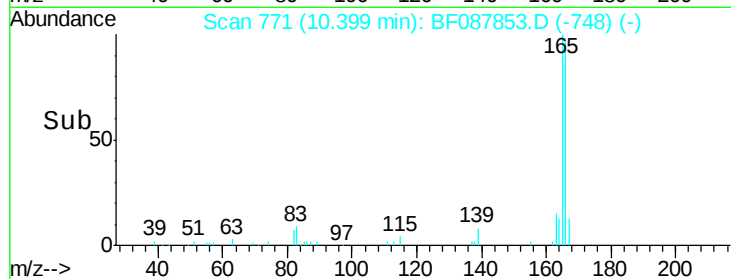
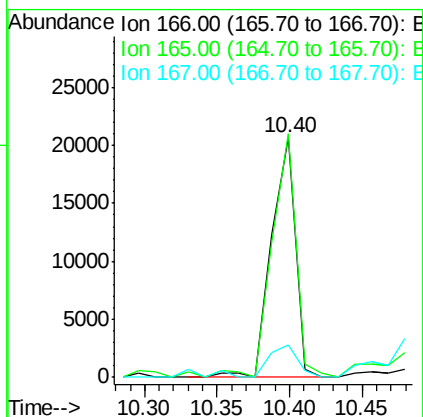
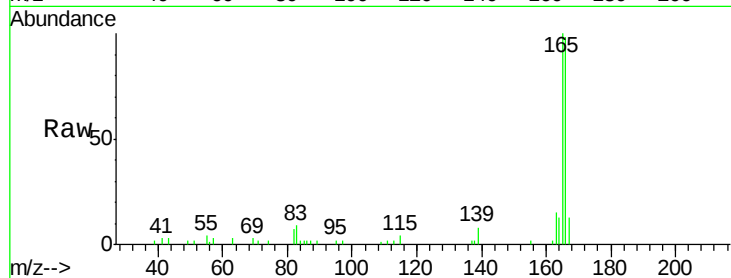




#57
 Fluorene
 Concen: Below Cal
 RT: 10.40 min Scan# 771
 Delta R.T. -0.03 min
 Lab File: BF087853.D
 Acq: 9 Jun 2016 15:33

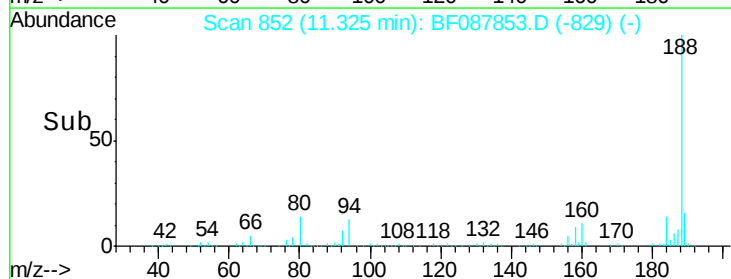
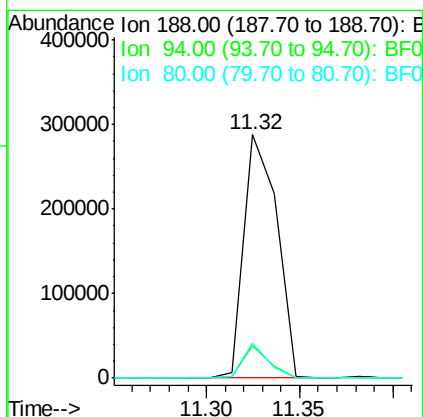
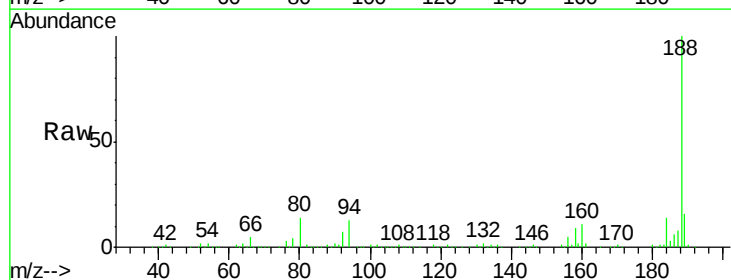
Instrument :
 BNA_F
 ClientSampled :
 SS-31

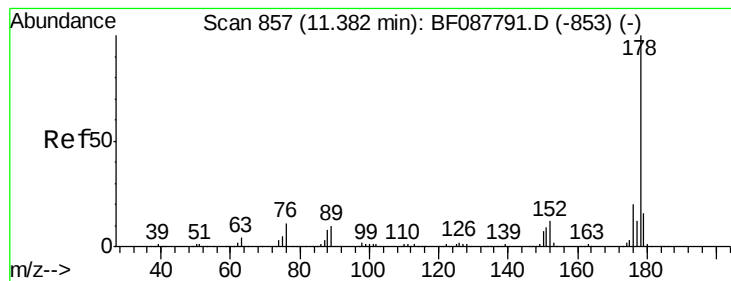
Tgt Ion:166 Resp: 23524
 Ion Ratio Lower Upper
 166 100
 165 101.6 77.8 116.8
 167 13.7 11.2 16.8



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.32 min Scan# 852
 Delta R.T. -0.03 min
 Lab File: BF087853.D
 Acq: 9 Jun 2016 15:33

Tgt Ion:188 Resp: 353484
 Ion Ratio Lower Upper
 188 100
 94 13.4 9.0 13.6
 80 14.3 10.0 15.0





#70

Phenanthrene

Concen: 18.01 ng

RT: 11.36 min Scan# 855

Delta R.T. -0.02 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Instrument :

BNA_F

ClientSampleId :

SS-31

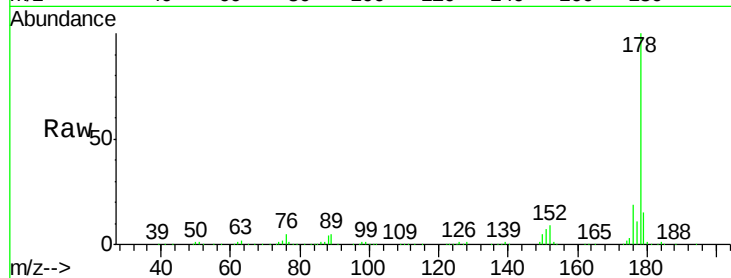
Tgt Ion:178 Resp: 334054

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.6

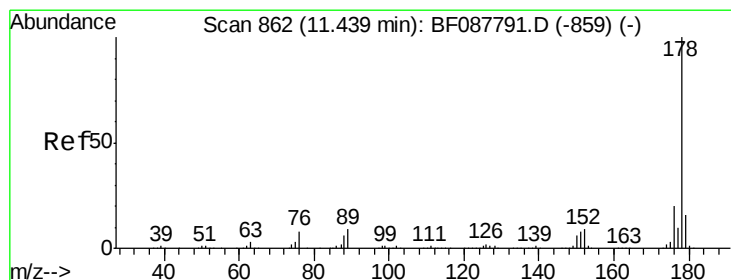
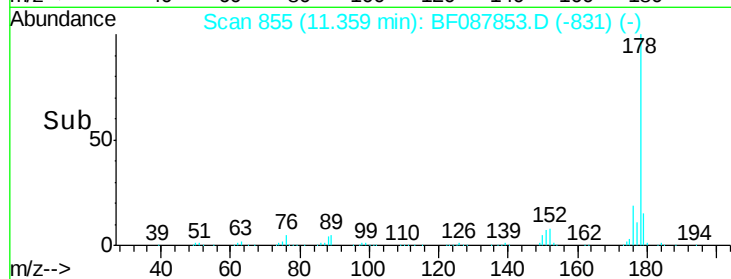
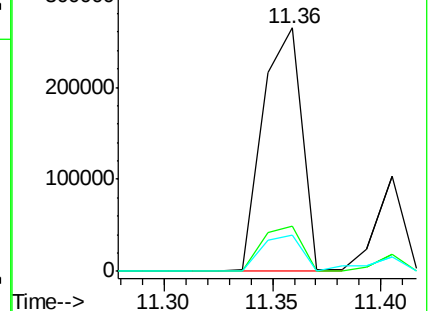
179 15.0 13.0 19.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 4.89 ng

RT: 11.40 min Scan# 859

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

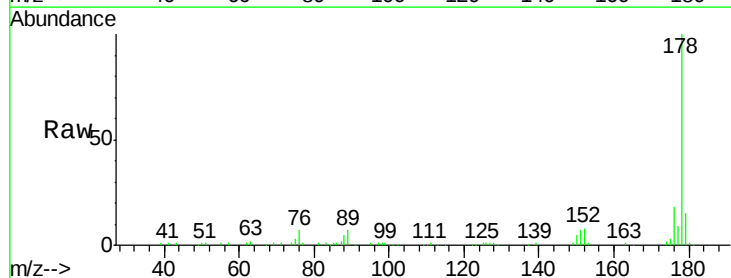
Tgt Ion:178 Resp: 91574

Ion Ratio Lower Upper

178 100

176 18.3 15.6 23.4

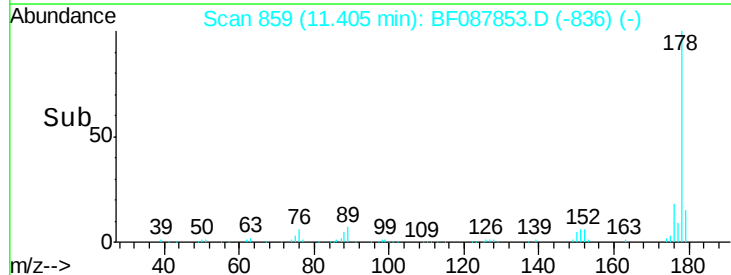
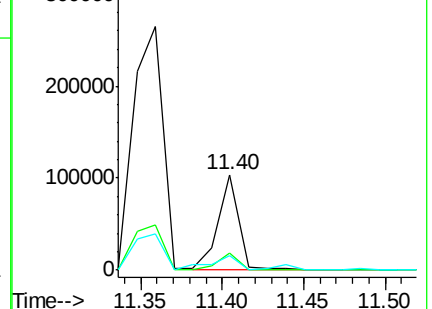
179 14.9 12.8 19.2

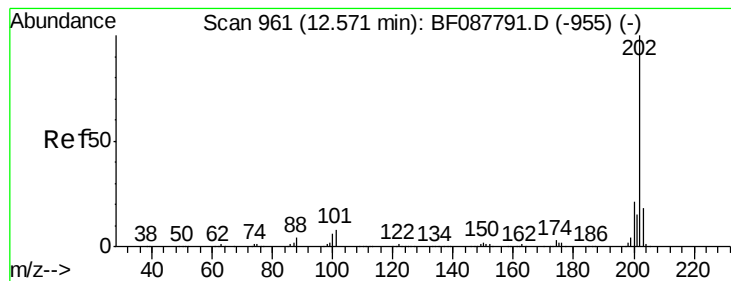


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 19.02 ng

RT: 12.54 min Scan# 958

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Instrument :

BNA_F

ClientSampleId :

SS-31

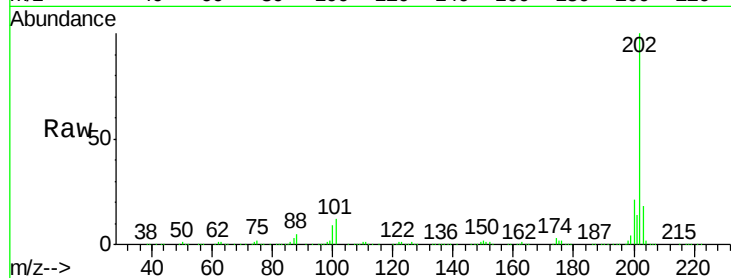
Tgt Ion: 202 Resp: 372355

Ion Ratio Lower Upper

202 100

101 11.7 0.0 33.1

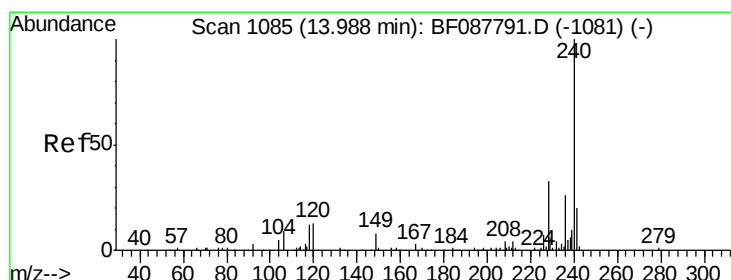
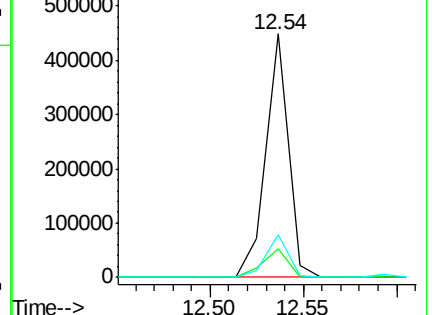
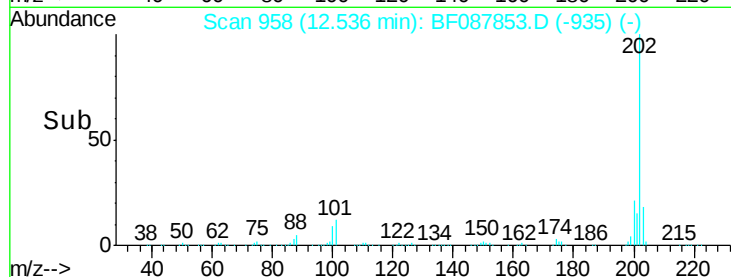
203 17.8 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.95 min Scan# 1082

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

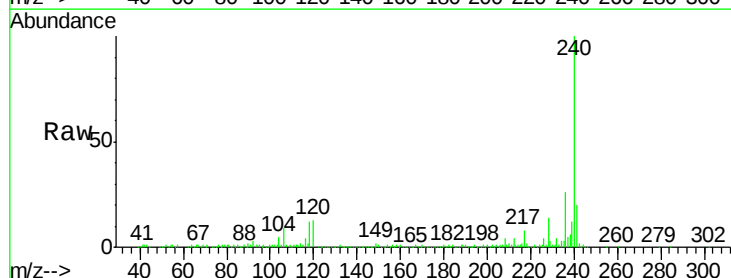
Tgt Ion: 240 Resp: 223811

Ion Ratio Lower Upper

240 100

120 13.4 6.8 10.2#

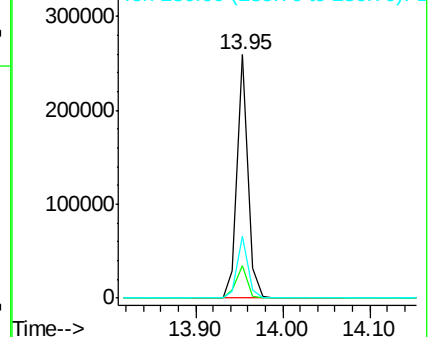
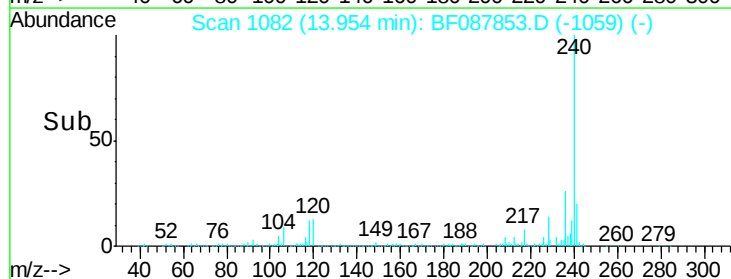
236 25.6 20.2 30.2

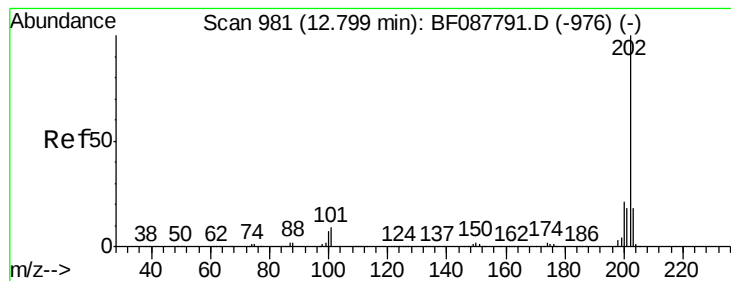


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 18.35 ng

RT: 12.76 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Instrument :

BNA_F

ClientSampleId :

SS-31

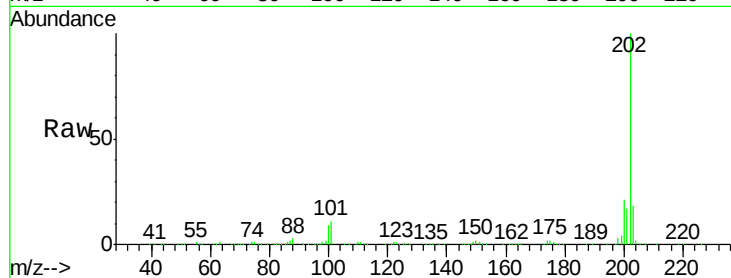
Tgt Ion: 202 Resp: 304732

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

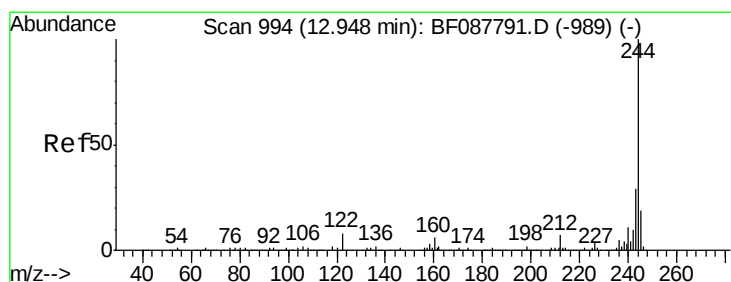
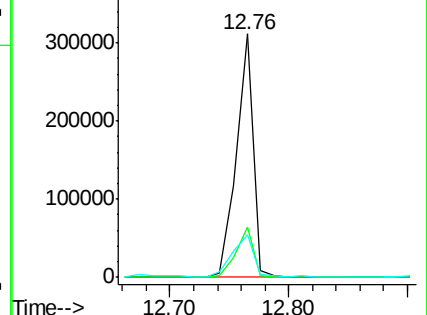
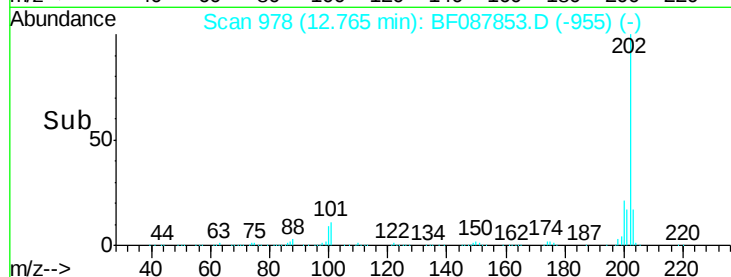
203 17.5 14.5 21.7



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: 22.70 ng

RT: 12.91 min Scan# 991

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

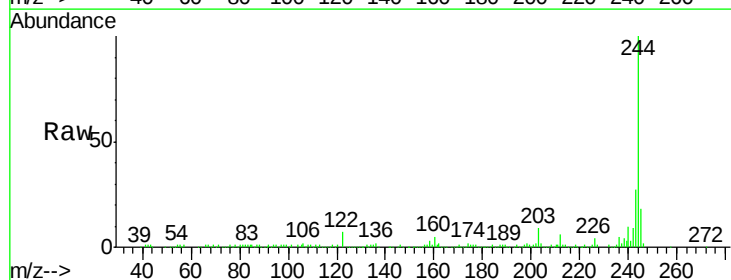
Tgt Ion: 244 Resp: 223293

Ion Ratio Lower Upper

244 100

212 6.0 6.0 9.0#

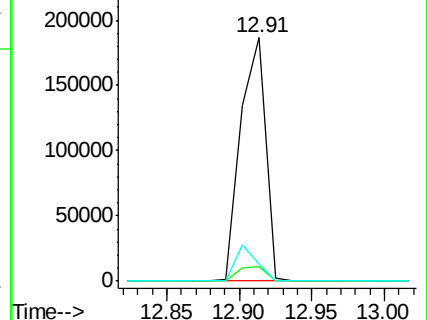
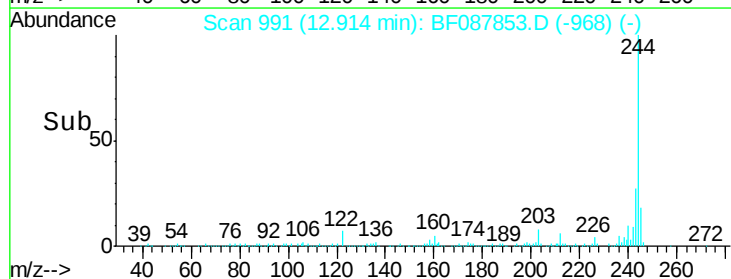
122 6.9 11.2 16.8#

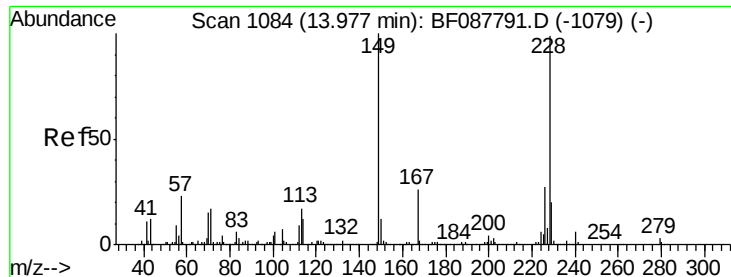


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.68 ng

RT: 13.94 min Scan# 1081

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

Instrument :

BNA_F

ClientSampleId :

SS-31

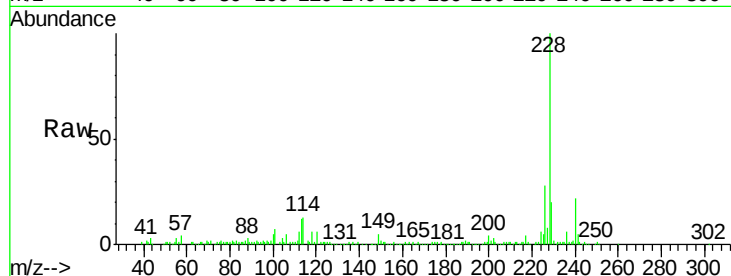
Tgt Ion:228 Resp: 149002

Ion Ratio Lower Upper

228 100

226 27.6 22.3 33.5

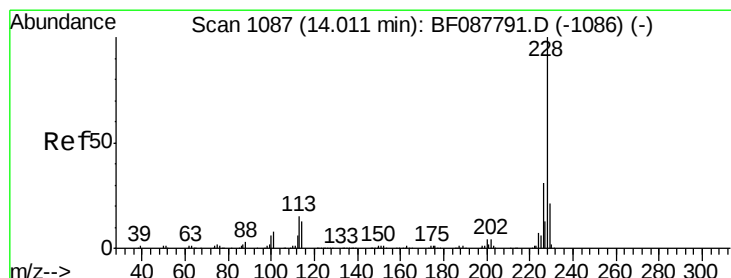
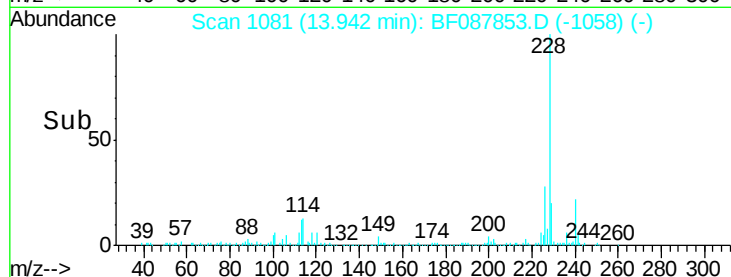
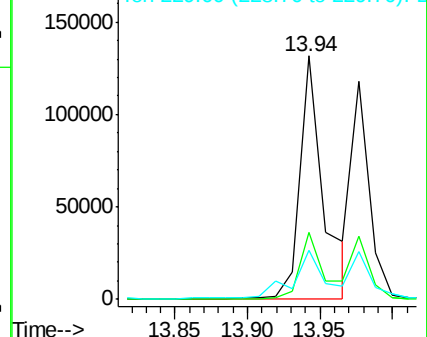
229 20.2 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 8.30 ng

RT: 13.98 min Scan# 1084

Delta R.T. -0.03 min

Lab File: BF087853.D

Acq: 9 Jun 2016 15:33

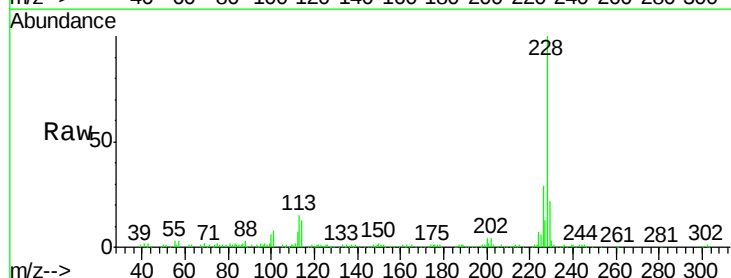
Tgt Ion:228 Resp: 99622

Ion Ratio Lower Upper

228 100

226 29.3 25.4 38.2

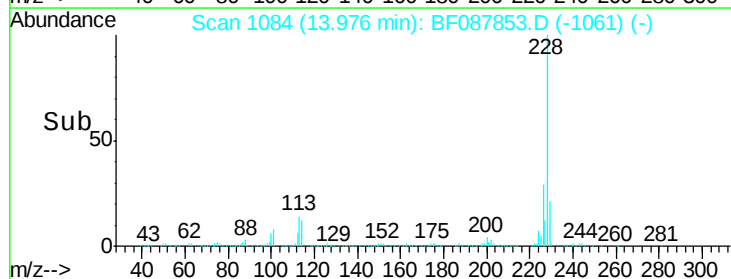
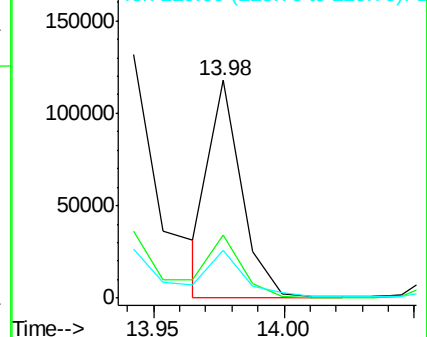
229 22.0 16.3 24.5

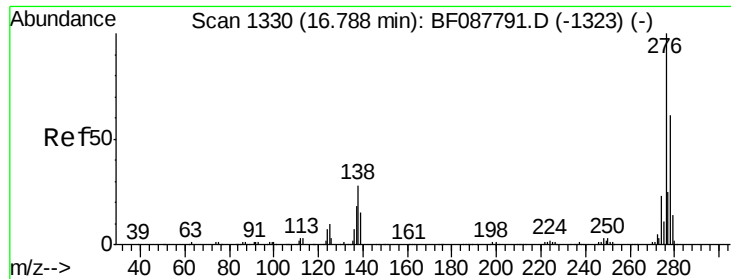


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

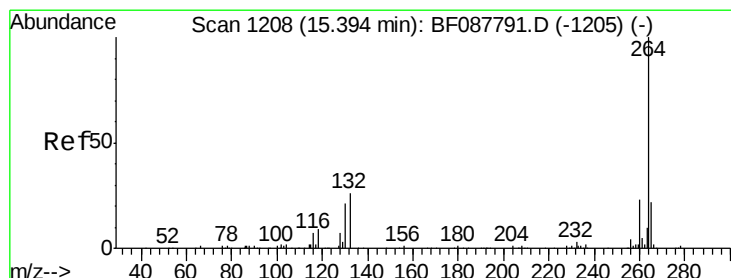
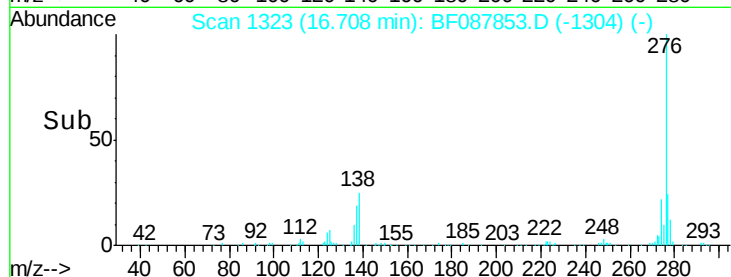
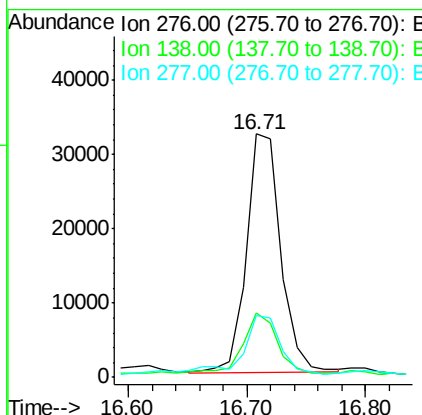
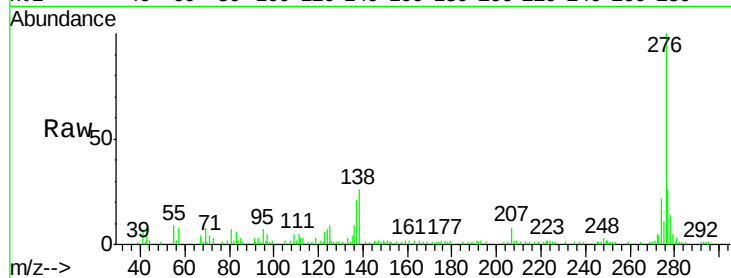




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.84 ng
 RT: 16.71 min Scan# 1323
 Delta R.T. -0.08 min
 Lab File: BF087853.D
 Acq: 9 Jun 2016 15:33

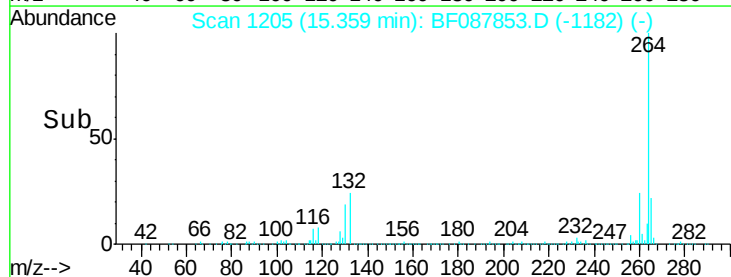
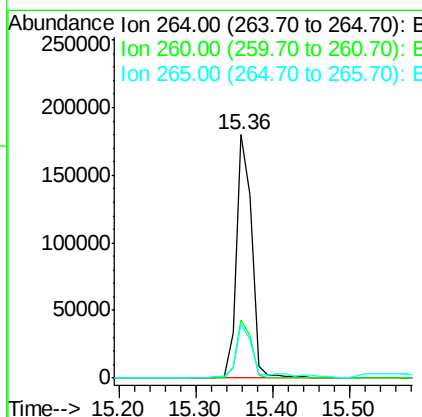
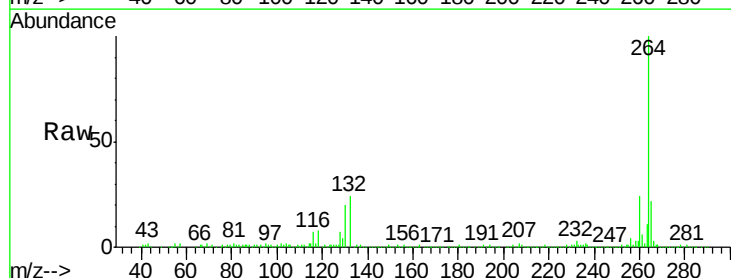
Instrument :
 BNA_F
 ClientSampleId :
 SS-31

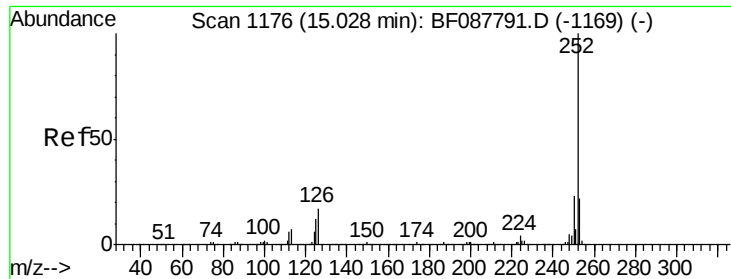
Tgt Ion: 276 Resp: 65060
 Ion Ratio Lower Upper
 276 100
 138 26.8 0.0 0.0#
 277 28.8 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.36 min Scan# 1205
 Delta R.T. -0.03 min
 Lab File: BF087853.D
 Acq: 9 Jun 2016 15:33

Tgt Ion: 264 Resp: 253179
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.2 28.8
 265 22.4 16.9 25.3

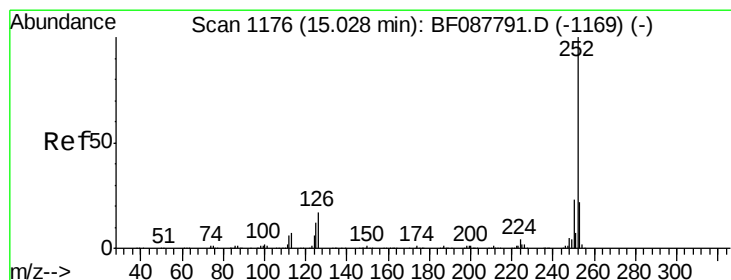
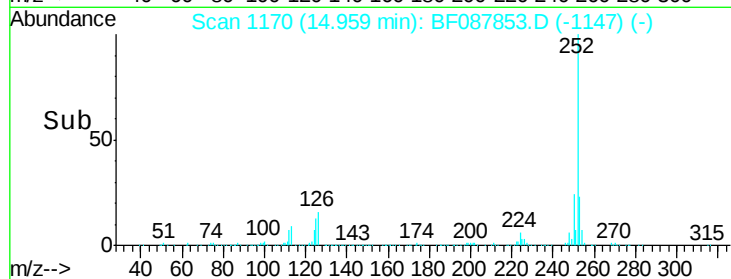
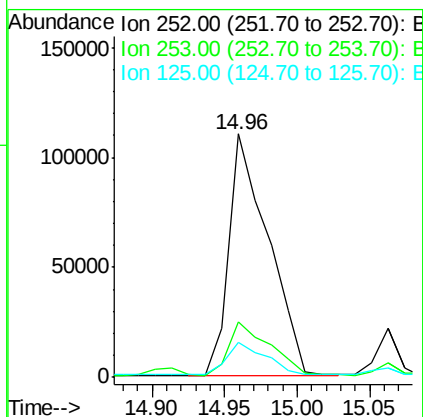
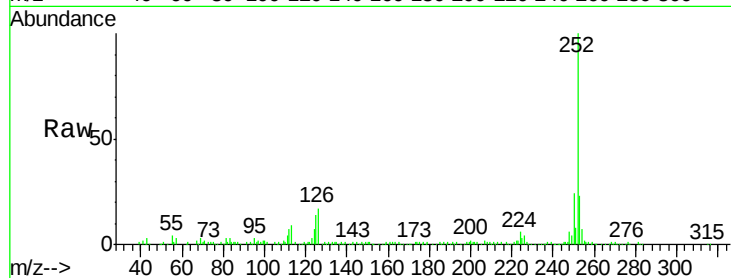




#87
Benzo(b)fluoranthene
Concen: 11.85 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.03 min
Lab File: BF087853.D
Acq: 9 Jun 2016 15:33

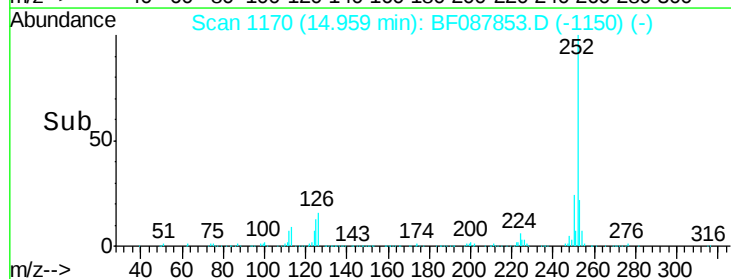
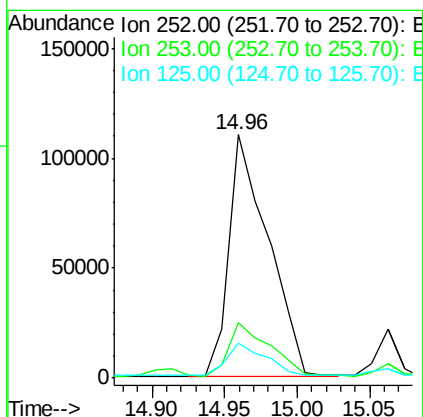
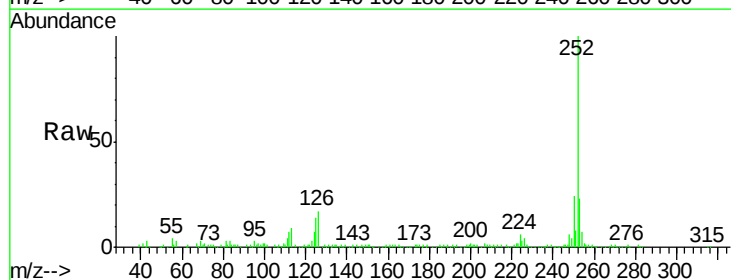
Instrument :
BNA_F
ClientSampleId :
SS-31

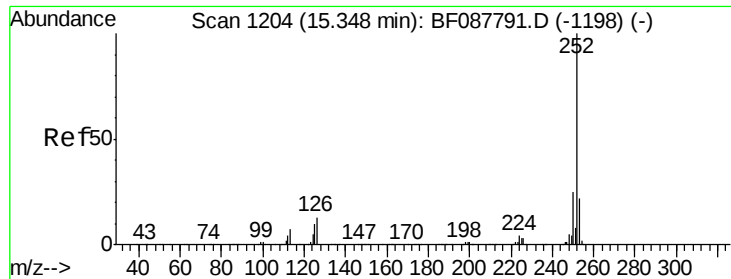
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.2
125	14.2	7.1	10.7#



#88
Benzo(k)fluoranthene
Concen: 15.71 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.07 min
Lab File: BF087853.D
Acq: 9 Jun 2016 15:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	14.2	11.2	16.8

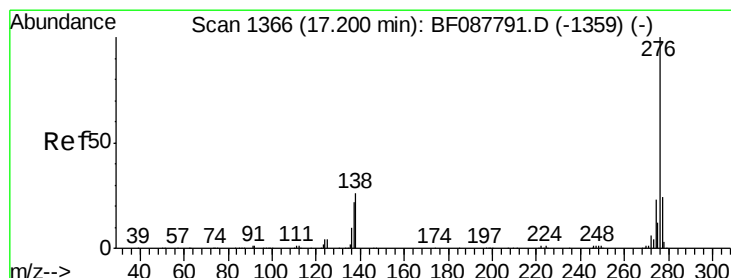
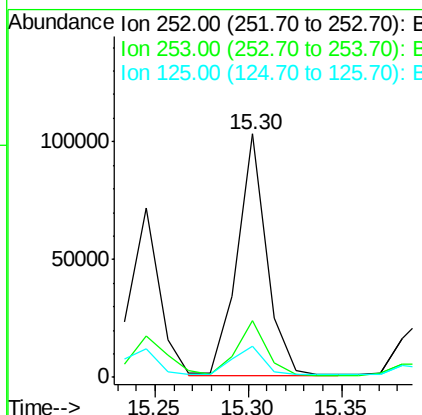
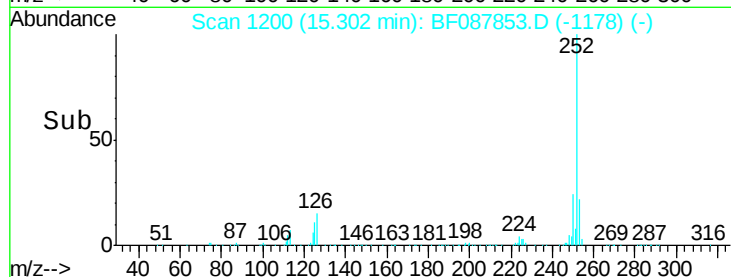
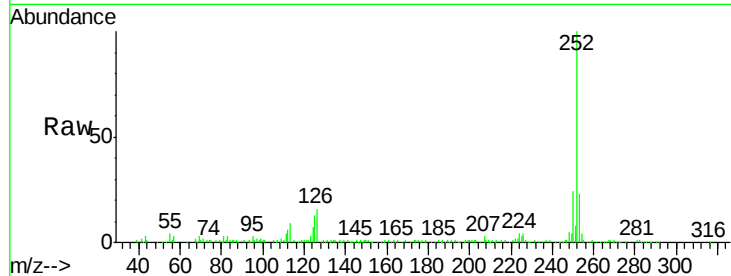




#89
Benzo(a)pyrene
Concen: 8.02 ng
RT: 15.30 min Scan# 1200
Delta R.T. -0.05 min
Lab File: BF087853.D
Acq: 9 Jun 2016 15:33

Instrument :
BNA_F
ClientSampleId :
SS-31

Tgt Ion: 252 Resp: 114483
Ion Ratio Lower Upper
252 100
253 23.2 17.9 26.9
125 12.8 12.5 18.7



#91
Benzo(g,h,i)perylene
Concen: 4.39 ng
RT: 17.12 min Scan# 1359
Delta R.T. -0.08 min
Lab File: BF087853.D
Acq: 9 Jun 2016 15:33

Tgt Ion: 276 Resp: 59904
Ion Ratio Lower Upper
276 100
277 25.4 18.9 28.3
138 25.9 21.4 32.2

