

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121015\
 Data File : BF083684.D
 Acq On : 10 Dec 2015 19:31
 Operator : UM/IZ
 Sample : G4582-15DL 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Dec 11 01:03:02 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 09 00:23:35 2015
 Response via : Initial Calibration

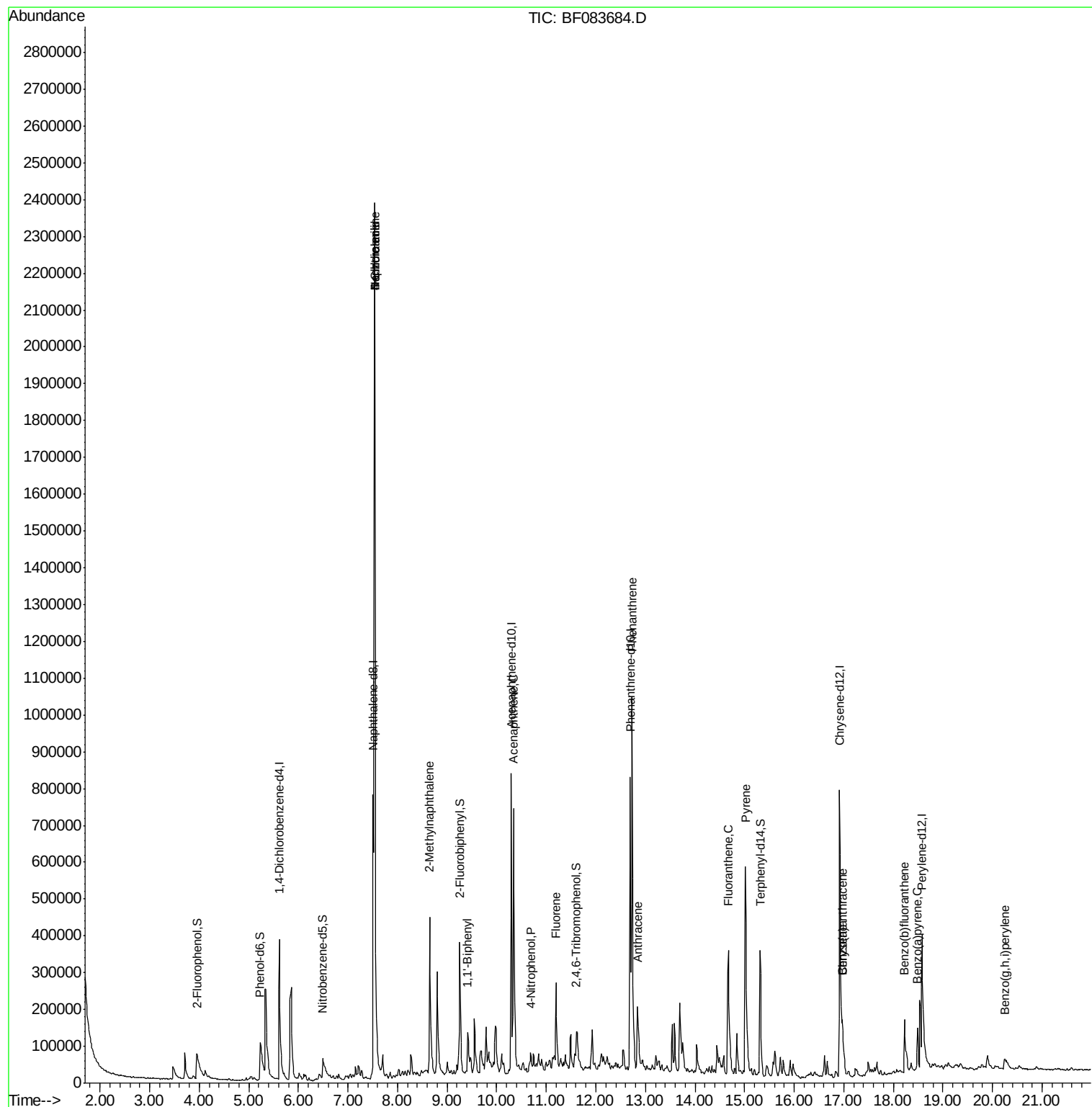
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	118252	20.00	ng	-0.08
21) Naphthalene-d8	7.50	136	477868	20.00	ng	-0.10
38) Acenaphthene-d10	10.29	164	237869	20.00	ng	-0.09
63) Phenanthrene-d10	12.69	188	432503	20.00	ng	-0.09
75) Chrysene-d12	16.91	240	411229	20.00	ng	-0.08
86) Perylene-d12	18.58	264	306266	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	3.95	112	101599	13.03	ng	-0.02
7) Phenol-d6	5.23	99	162381	15.59	ng	-0.05
23) Nitrobenzene-d5	6.49	82	96406	9.41	ng	-0.05
41) 2,4,6-Tribromophenol	11.61	330	28400	13.40	ng	-0.08
44) 2-Fluorobiphenyl	9.25	172	188112	11.13	ng	-0.09
78) Terphenyl-d14	15.31	244	181964	10.41	ng	-0.10
Target Compounds						
31) Naphthalene	7.54	128	1682494	66.48	ng	Qvalue 99
32) Benzoic acid	7.54	122	3866	3.76	ng	# 1
33) 4-Chloroaniline	7.54	127	219275	23.76	ng	# 28
37) 2-Methylnaphthalene	8.65	142	214140	13.47	ng	99
45) 1,1'-Biphenyl	9.41	154	70638	3.42	ng	99
51) Acenaphthene	10.34	154	253926	17.23	ng	99
55) 4-Nitrophenol	10.68	139	8119	4.44	ng	# 31
57) Fluorene	11.20	166	127360	7.14	ng	99
70) Phenanthrene	12.73	178	697996	28.09	ng	98
71) Anthracene	12.84	178	195221	7.58	ng	99
74) Fluoranthene	14.67	202	331990	13.06	ng	98
77) Pyrene	15.01	202	482069	16.28	ng	99
80) Benzo(a)anthracene	16.97	228	138209	5.74	ng	97
82) Chrysene	16.97	228	138868	5.76	ng	98
87) Benzo(b)fluoranthene	18.23	252	134350	7.70	ng	96
89) Benzo(a)pyrene	18.49	252	64261	3.78	ng	99
91) Benzo(g,h,i)perylene	20.25	276	47413	3.74	ng	94

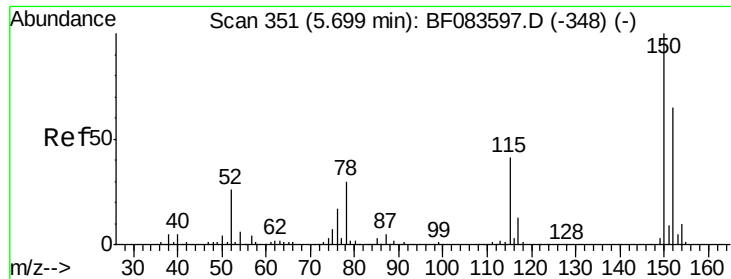
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.62 min Scan# 344

Delta R.T. -0.08 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

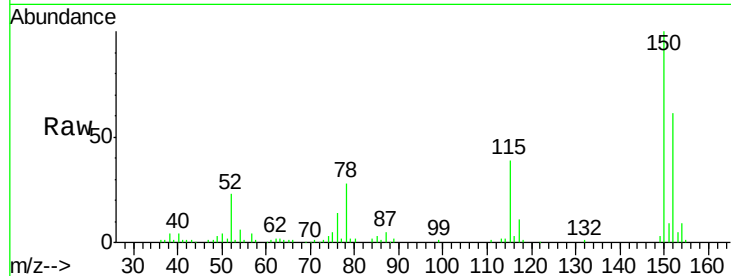
Tgt Ion:152 Resp: 118252

Ion Ratio Lower Upper

152 100

150 164.4 126.5 189.7

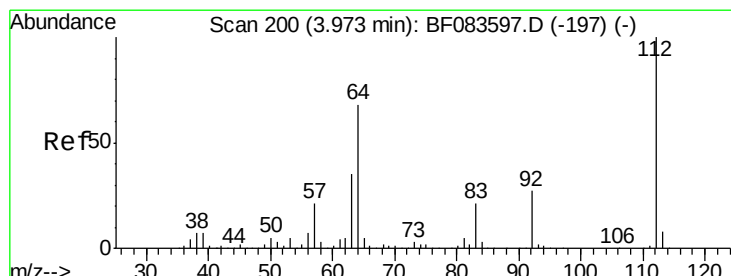
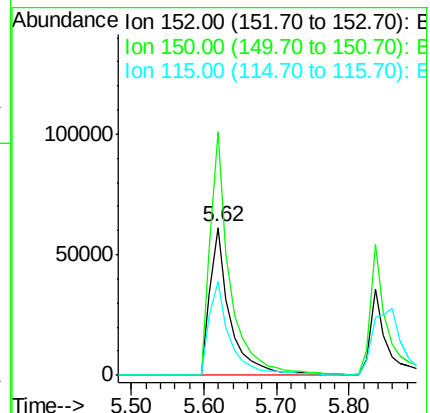
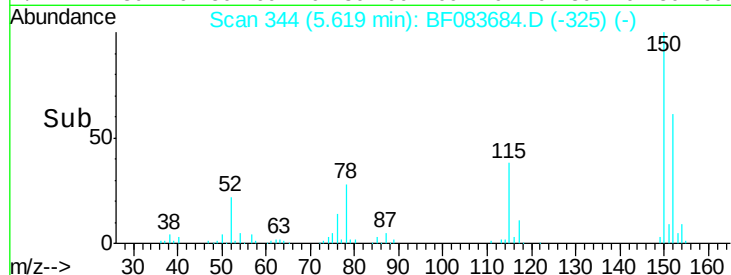
115 63.4 52.3 78.5



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: 13.03 ng

RT: 3.95 min Scan# 198

Delta R.T. -0.02 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

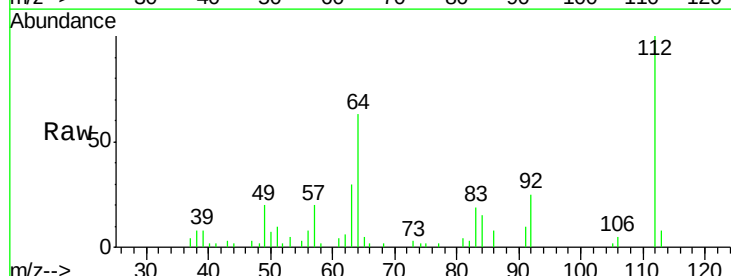
Tgt Ion:112 Resp: 101599

Ion Ratio Lower Upper

112 100

64 63.0 50.5 75.7

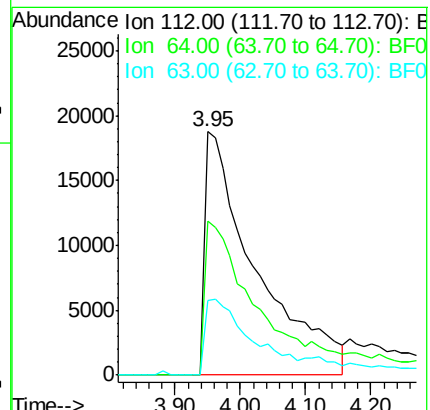
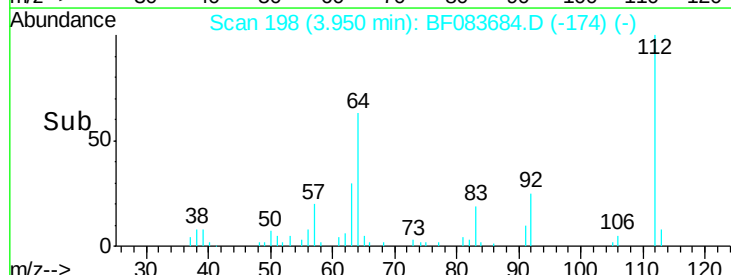
63 30.5 25.8 38.6

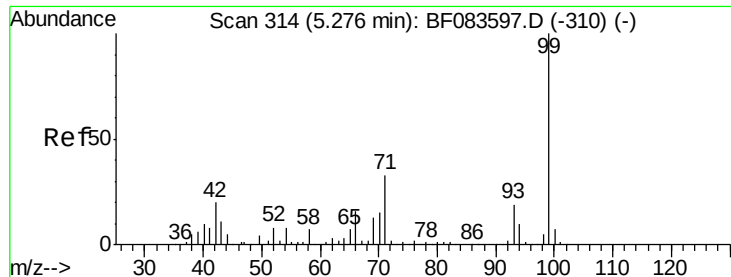


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 15.59 ng

RT: 5.23 min Scan# 310

Delta R.T. -0.05 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

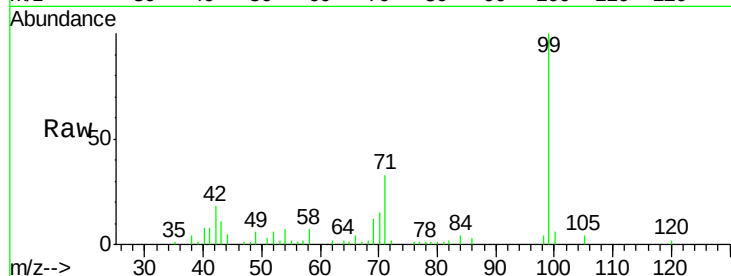
Tgt Ion: 99 Resp: 162381

Ion Ratio Lower Upper

99 100

42 18.0 17.3 25.9

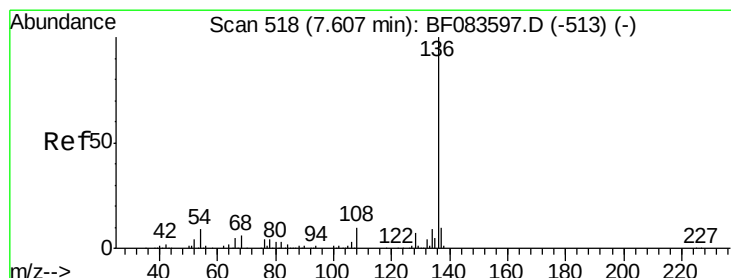
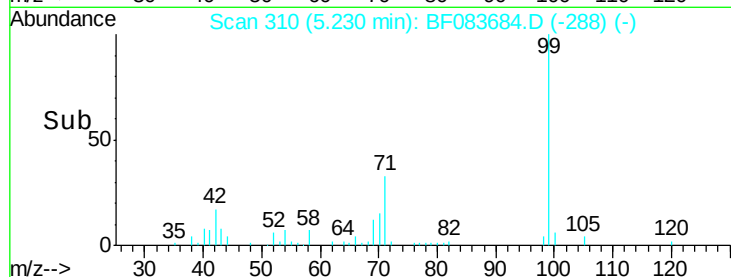
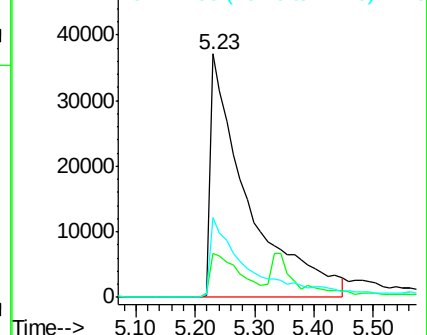
71 32.7 26.6 40.0



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: 7.50 min Scan# 509

Delta R.T. -0.10 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Tgt Ion: 136 Resp: 477868

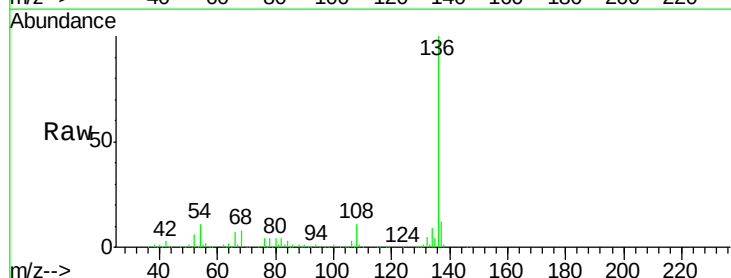
Ion Ratio Lower Upper

136 100

137 11.6 8.7 13.1

54 11.5 7.8 11.6

68 7.8 5.7 8.5

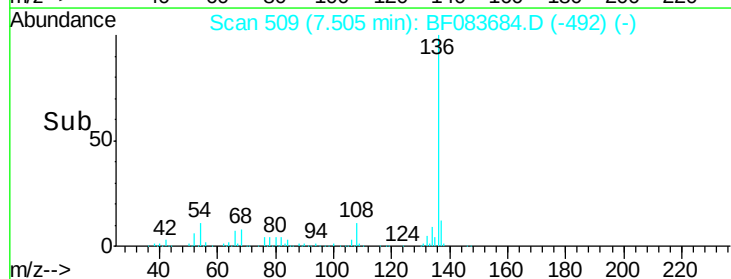
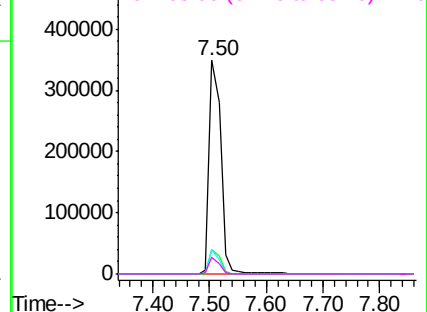


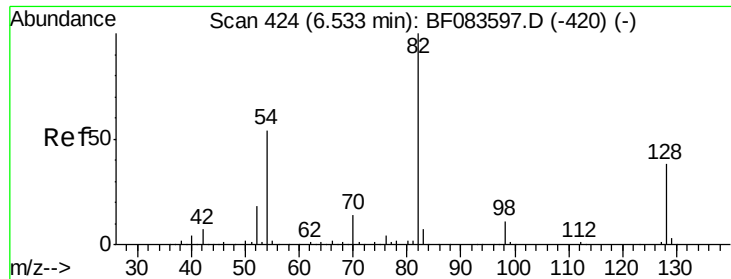
Abundance Ion 136.00 (135.70 to 136.70): E

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

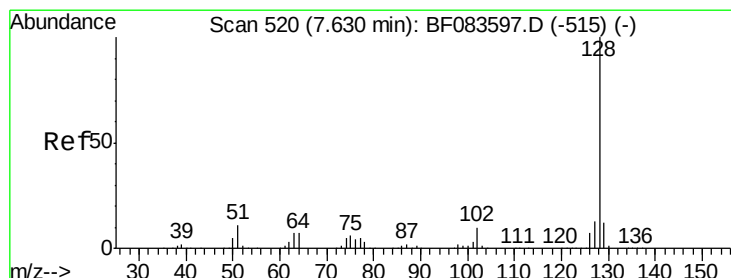
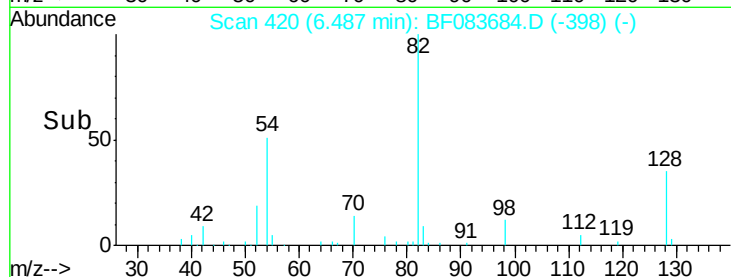
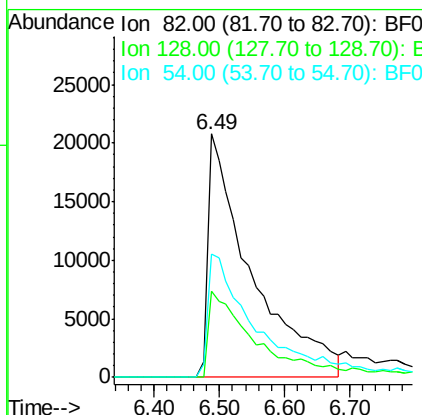
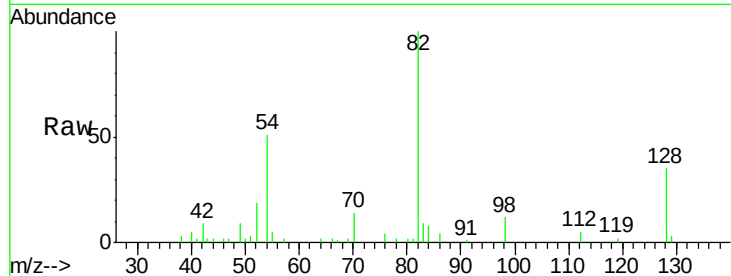




#23
 Nitrobenzene-d5
 Concen: 9.41 ng
 RT: 6.49 min Scan# 420
 Delta R.T. -0.05 min
 Lab File: BF083684.D
 Acq: 10 Dec 2015 19:31

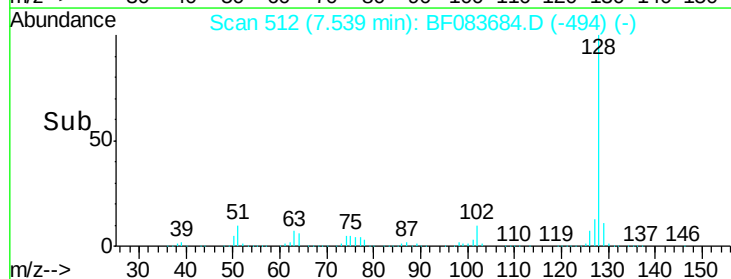
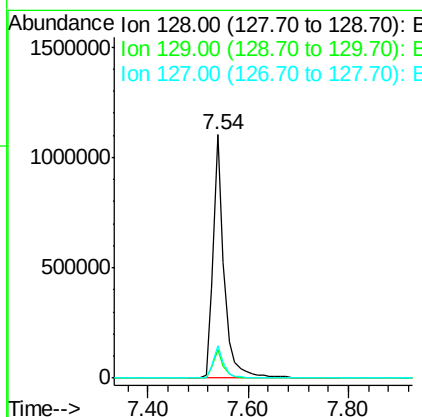
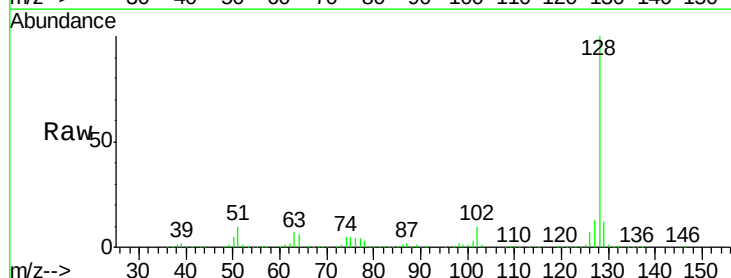
Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

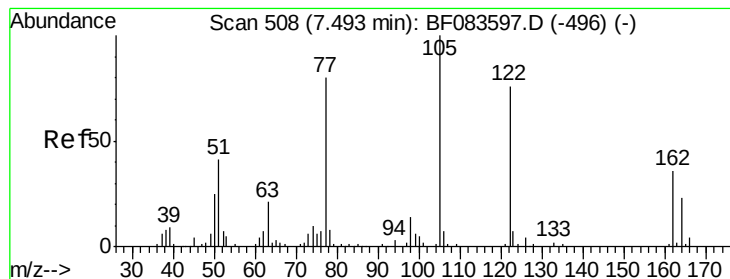
Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.5	30.7	46.1
54	50.6	42.5	63.7



#31
 Naphthalene
 Concen: 66.48 ng
 RT: 7.54 min Scan# 512
 Delta R.T. -0.09 min
 Lab File: BF083684.D
 Acq: 10 Dec 2015 19:31

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.6	13.0
127	13.3	10.6	16.0





#32

Benzoic acid

Concen: 3.76 ng

RT: 7.54 min Scan# 512

Delta R.T. 0.05 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

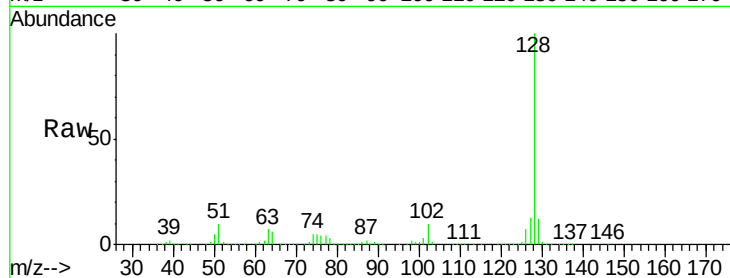
Tgt Ion:122 Resp: 3866

Ion Ratio Lower Upper

122 100

105 0.0 105.6 145.6#

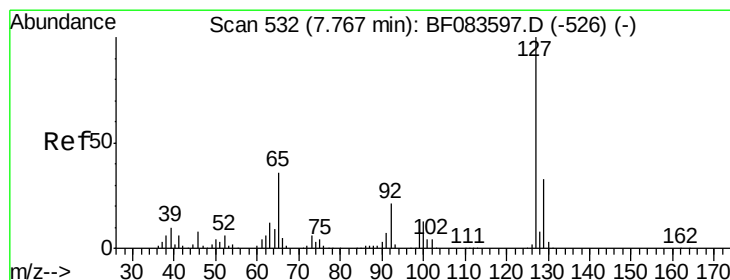
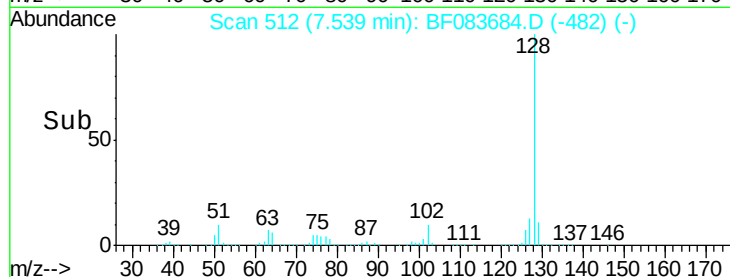
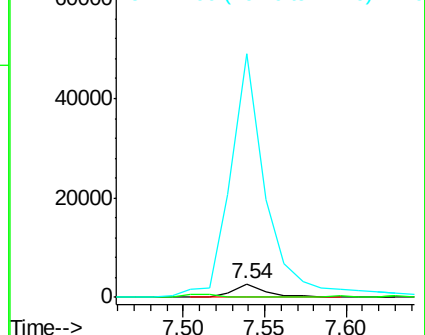
77 1765.5 86.8 126.8#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#33

4-Chloroaniline

Concen: 23.76 ng

RT: 7.54 min Scan# 512

Delta R.T. -0.23 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Tgt Ion:127 Resp: 219275

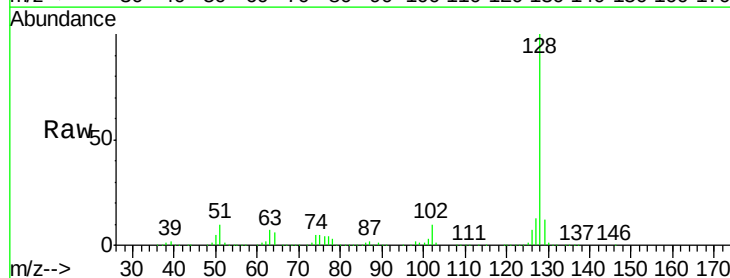
Ion Ratio Lower Upper

127 100

129 86.3 26.1 39.1#

65 0.0 33.5 50.3#

92 0.0 18.6 28.0#

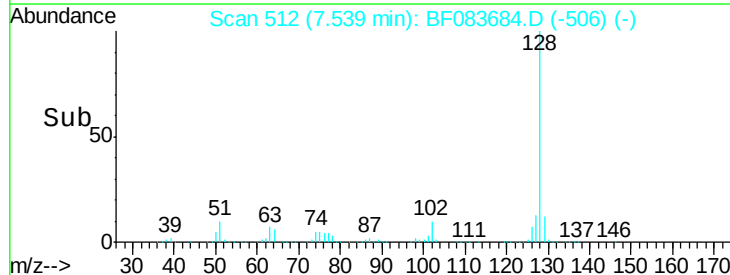
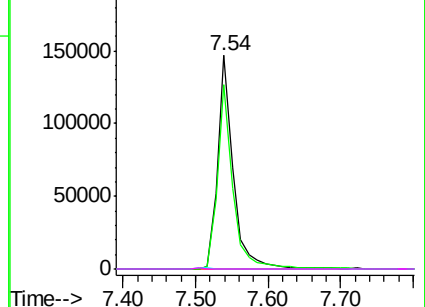


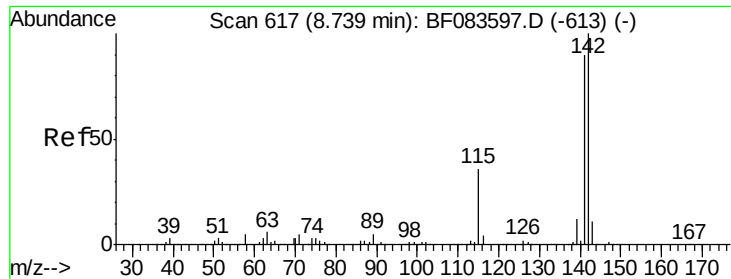
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

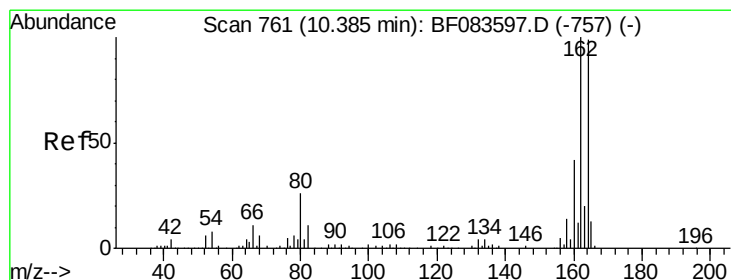
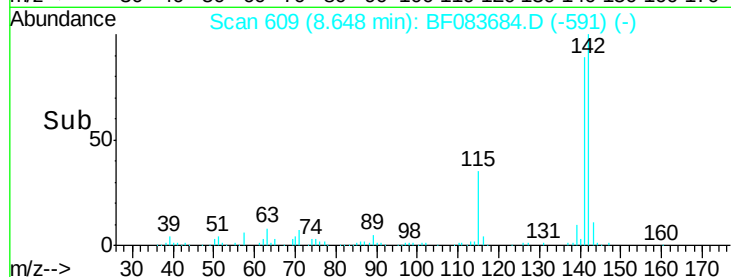
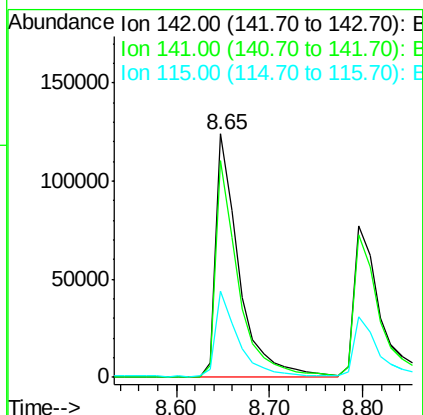
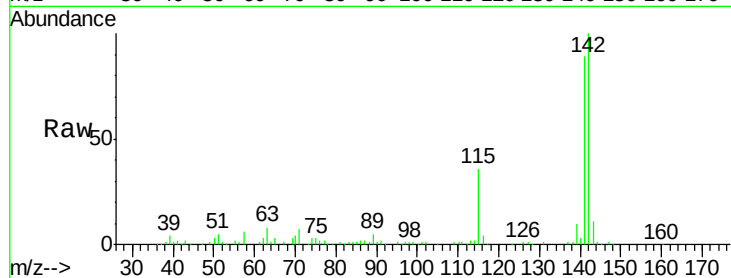




#37
 2-Methylnaphthalene
 Concen: 13.47 ng
 RT: 8.65 min Scan# 609
 Delta R.T. -0.09 min
 Lab File: BF083684.D
 Acq: 10 Dec 2015 19:31

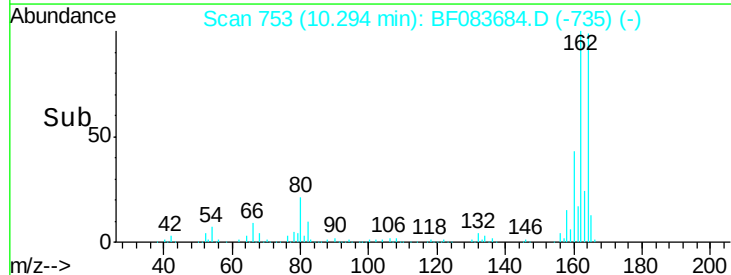
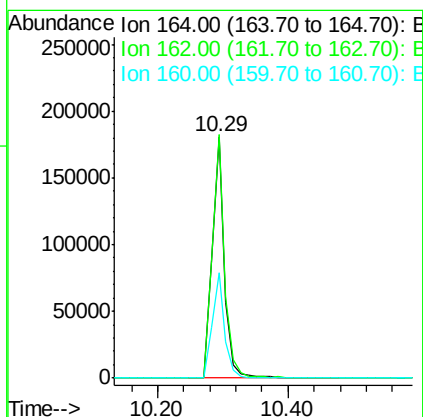
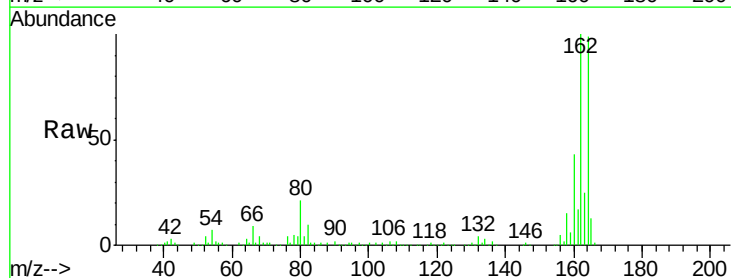
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 SSTDCCC040

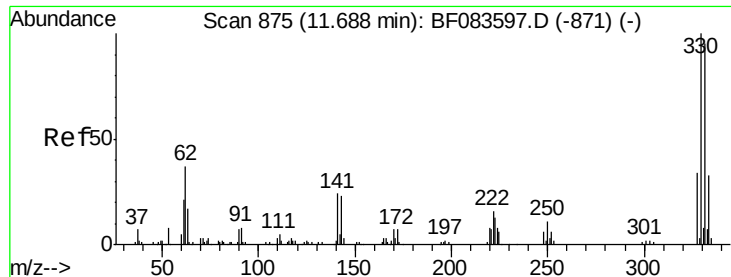
Tgt Ion:142 Resp: 214140
 Ion Ratio Lower Upper
 142 100
 141 89.2 70.3 105.5
 115 35.6 29.2 43.8



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.29 min Scan# 753
 Delta R.T. -0.09 min
 Lab File: BF083684.D
 Acq: 10 Dec 2015 19:31

Tgt Ion:164 Resp: 237869
 Ion Ratio Lower Upper
 164 100
 162 100.9 78.8 118.2
 160 43.6 33.4 50.2

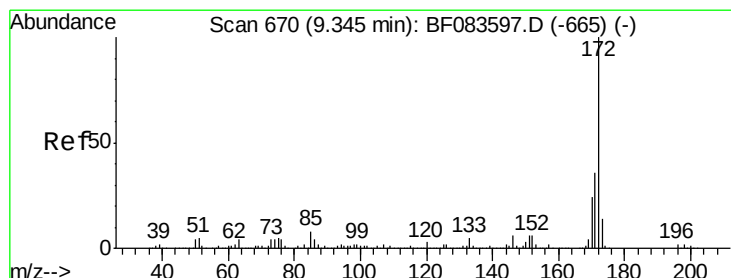
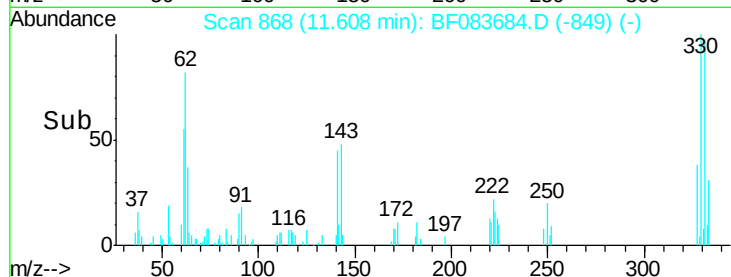
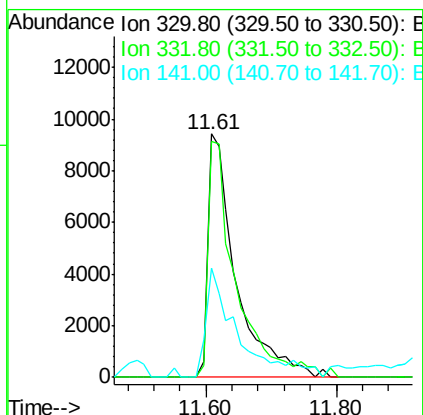
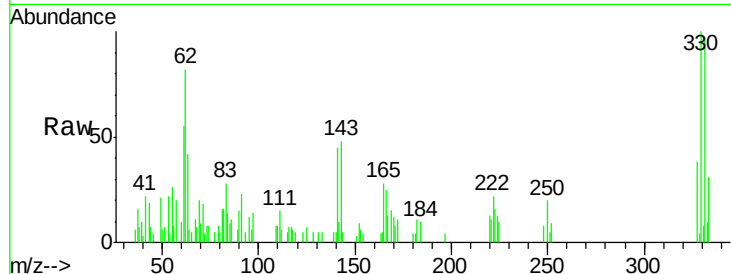




#41
 2,4,6-Tribromophenol
 Concen: 13.40 ng
 RT: 11.61 min Scan# 868
 Delta R.T. -0.08 min
 Lab File: BF083684.D
 Acq: 10 Dec 2015 19:31

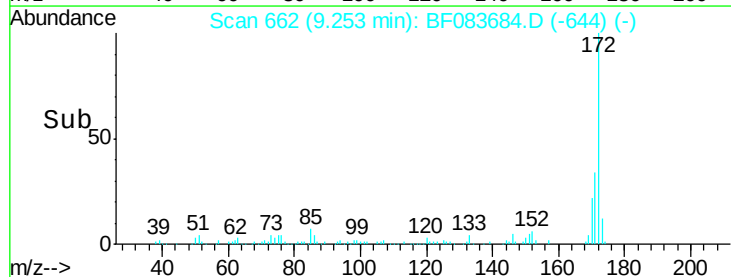
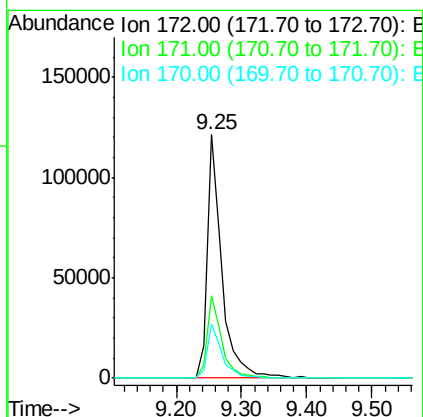
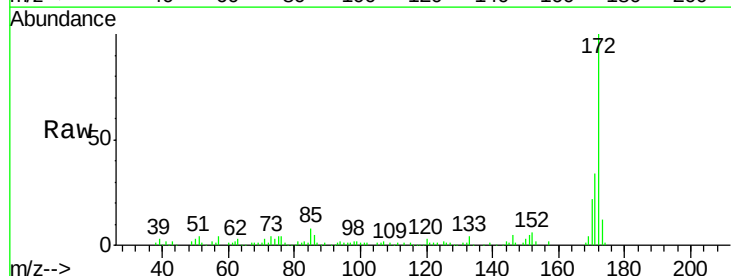
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 BNA_F
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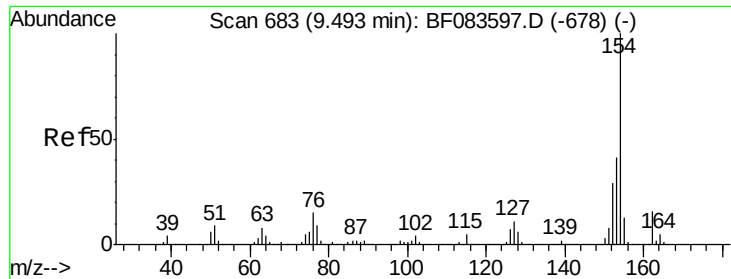
Tgt Ion: 330 Resp: 28400
 Ion Ratio Lower Upper
 330 100
 332 91.9 0.0 0.0#
 141 50.4 0.0 0.0#



#44
 2-Fluorobiphenyl
 Concen: 11.13 ng
 RT: 9.25 min Scan# 662
 Delta R.T. -0.09 min
 Lab File: BF083684.D
 Acq: 10 Dec 2015 19:31

Tgt Ion: 172 Resp: 188112
 Ion Ratio Lower Upper
 172 100
 171 34.1 28.6 42.8
 170 22.3 19.4 29.0





#45

1,1'-Biphenyl

Concen: 3.42 ng

RT: 9.41 min Scan# 676

Delta R.T. -0.08 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

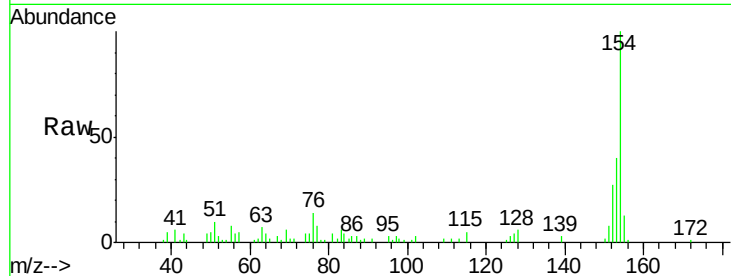
Tgt Ion:154 Resp: 70638

Ion Ratio Lower Upper

154 100

153 40.5 20.2 60.2

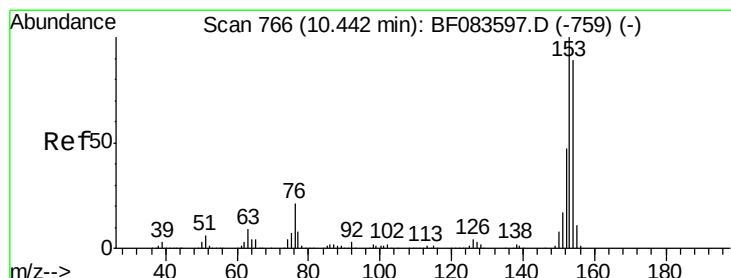
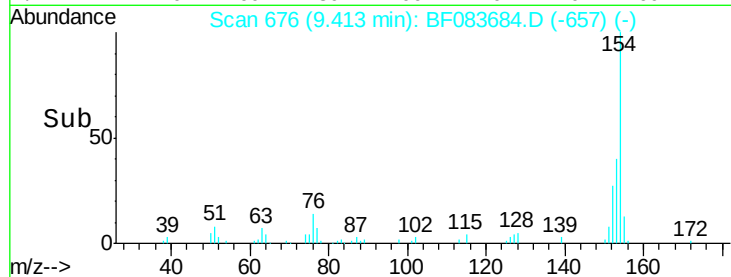
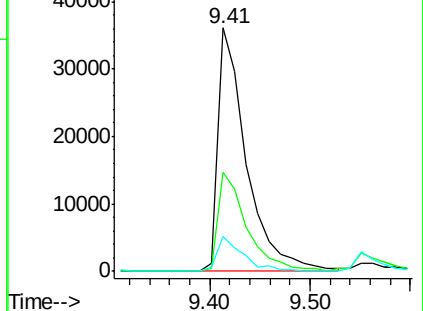
76 14.5 0.0 34.8



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



#51

Acenaphthene

Concen: 17.23 ng

RT: 10.34 min Scan# 757

Delta R.T. -0.10 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

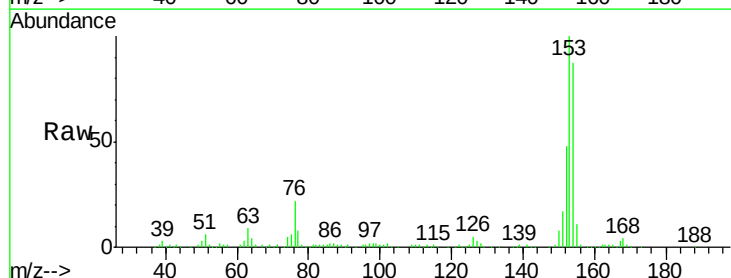
Tgt Ion:154 Resp: 253926

Ion Ratio Lower Upper

154 100

153 114.9 91.4 137.0

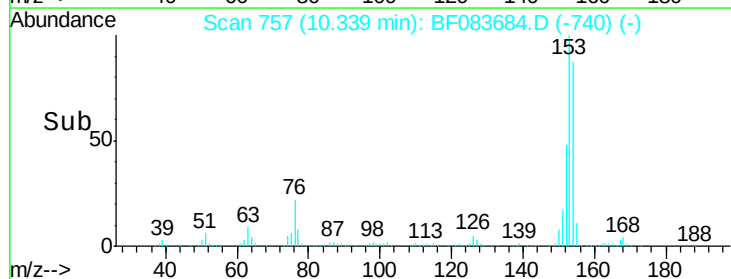
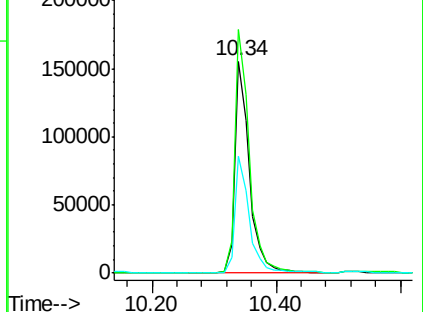
152 55.4 43.4 65.2

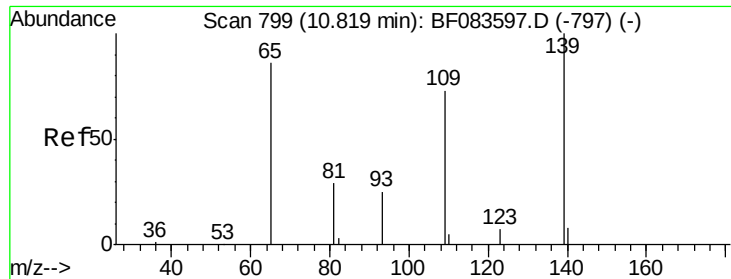


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

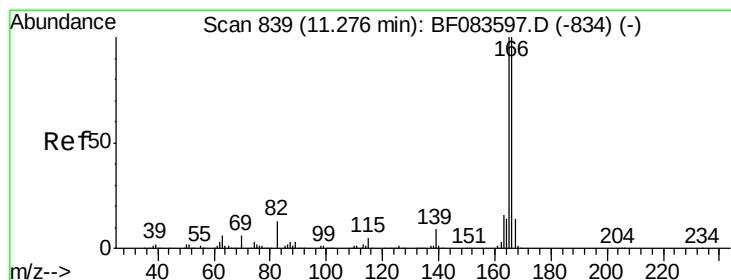
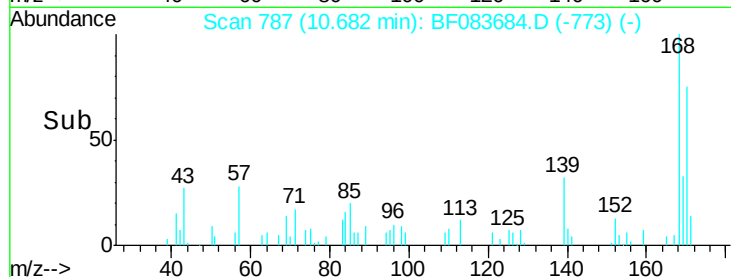
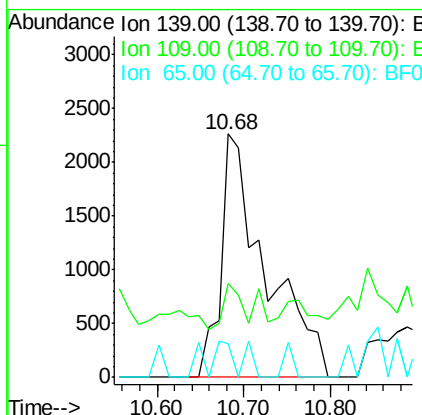
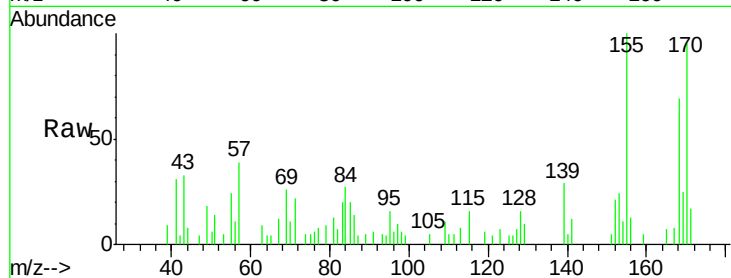




#55
4-Nitrophenol
Concen: 4.44 ng
RT: 10.68 min Scan# 787
Delta R.T. -0.14 min
Lab File: BF083684.D
Acq: 10 Dec 2015 19:31

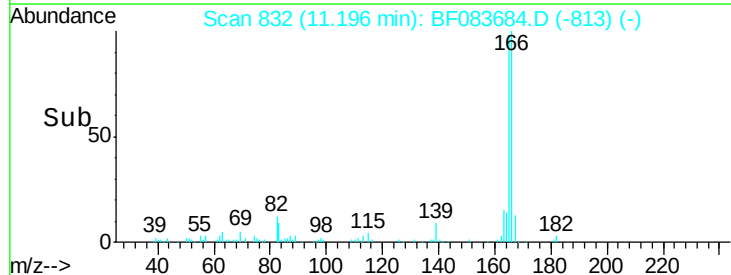
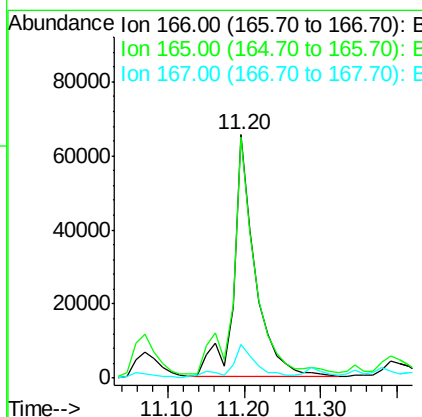
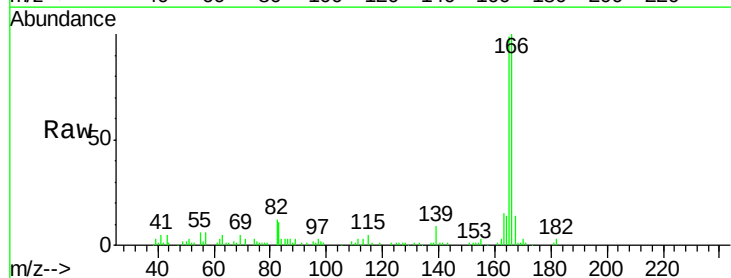
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

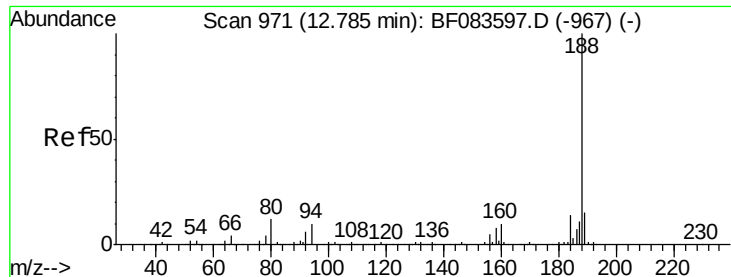
Tgt Ion:139 Resp: 8119
Ion Ratio Lower Upper
139 100
109 38.8 42.0 82.0#
65 14.1 89.2 129.2#



#57
Fluorene
Concen: 7.14 ng
RT: 11.20 min Scan# 832
Delta R.T. -0.08 min
Lab File: BF083684.D
Acq: 10 Dec 2015 19:31

Tgt Ion:166 Resp: 127360
Ion Ratio Lower Upper
166 100
165 99.2 80.0 120.0
167 13.8 10.6 16.0

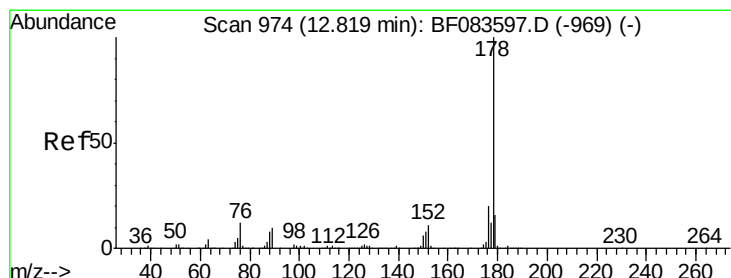
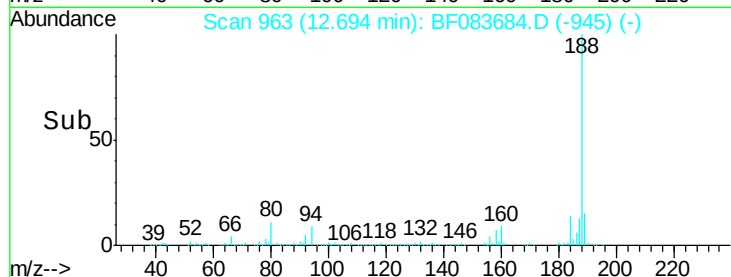
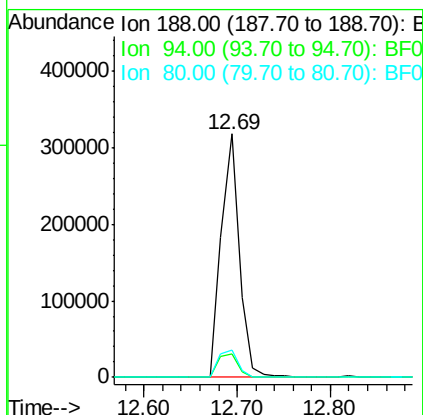
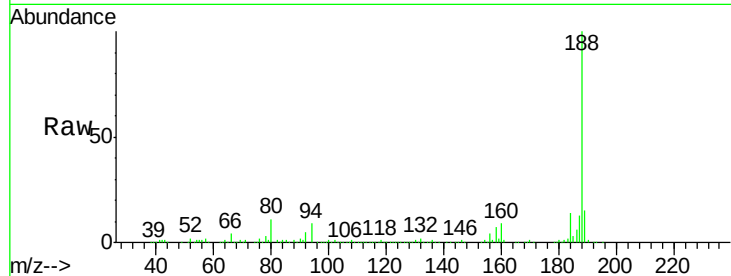




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.69 min Scan# 963
Delta R.T. -0.09 min
Lab File: BF083684.D
Acq: 10 Dec 2015 19:31

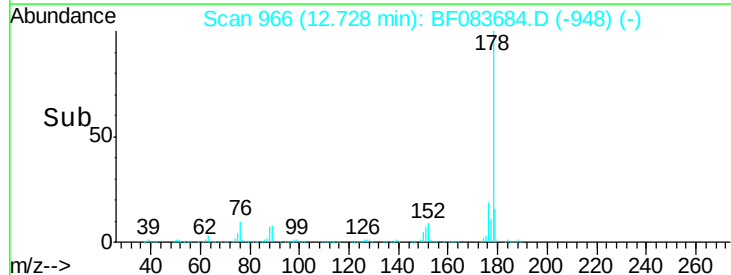
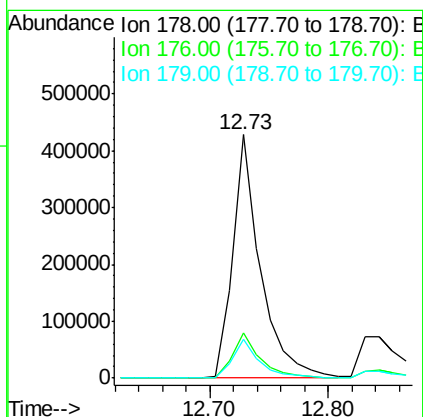
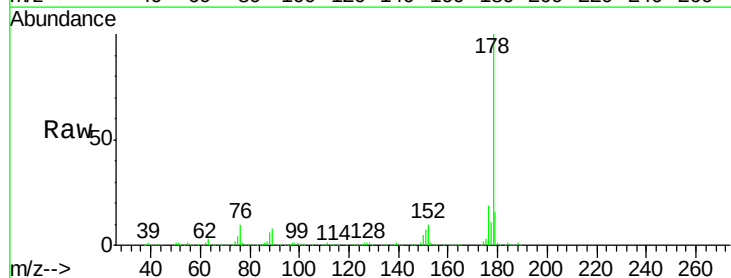
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

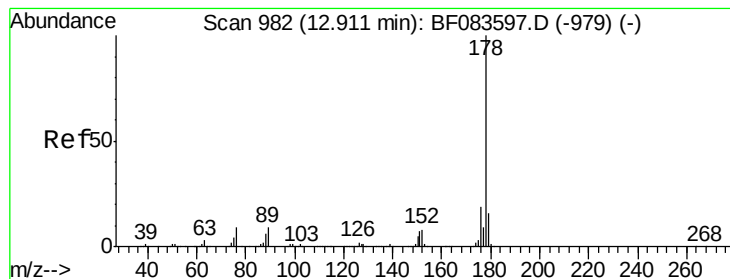
Tgt Ion:188 Resp: 432503
Ion Ratio Lower Upper
188 100
94 9.4 9.4 14.2#
80 11.3 10.6 16.0



#70
Phenanthrene
Concen: 28.09 ng
RT: 12.73 min Scan# 966
Delta R.T. -0.09 min
Lab File: BF083684.D
Acq: 10 Dec 2015 19:31

Tgt Ion:178 Resp: 697996
Ion Ratio Lower Upper
178 100
176 18.7 15.7 23.5
179 15.9 12.2 18.4





#71

Anthracene

Concen: 7.58 ng

RT: 12.84 min Scan# 976

Delta R.T. -0.07 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

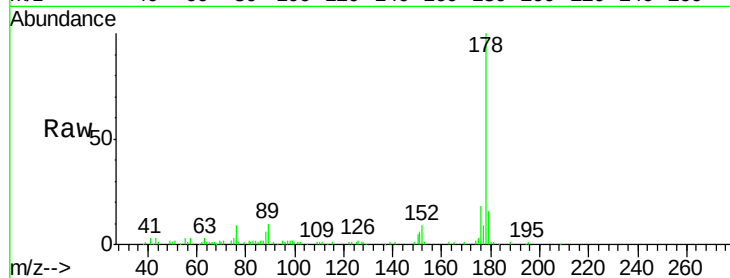
Tgt Ion:178 Resp: 195221

Ion Ratio Lower Upper

178 100

176 18.3 15.2 22.8

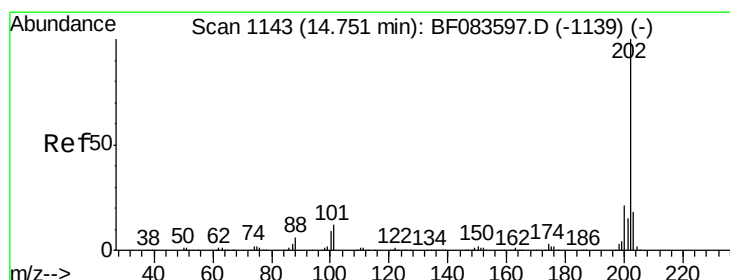
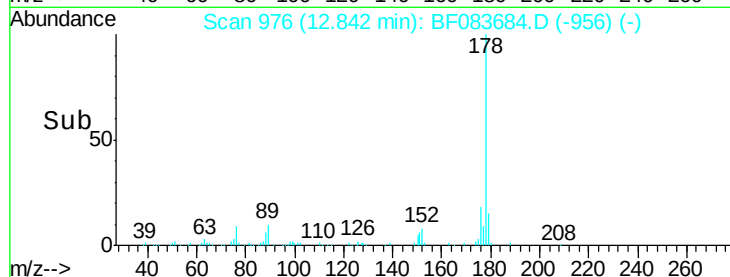
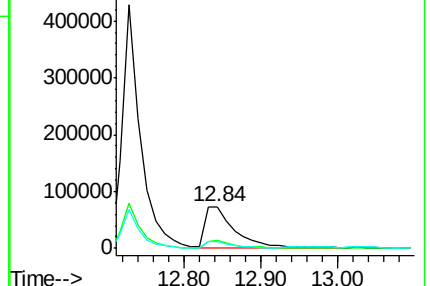
179 16.1 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 13.06 ng

RT: 14.67 min Scan# 1136

Delta R.T. -0.08 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

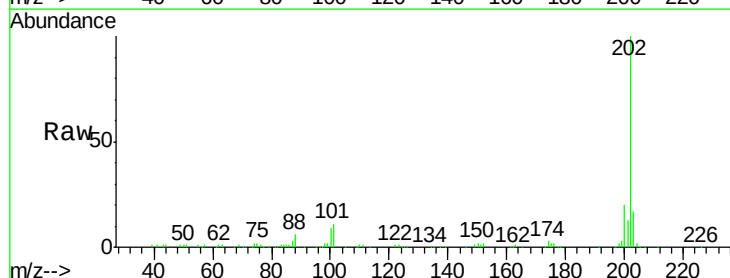
Tgt Ion:202 Resp: 331990

Ion Ratio Lower Upper

202 100

101 11.1 0.0 31.5

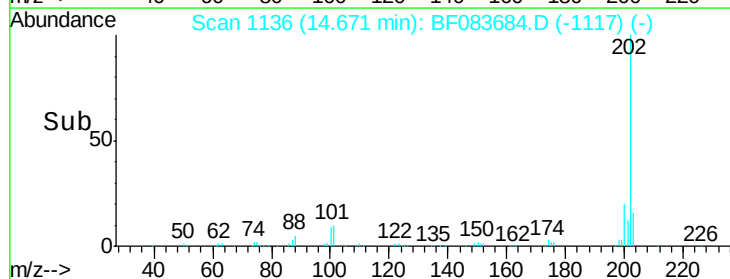
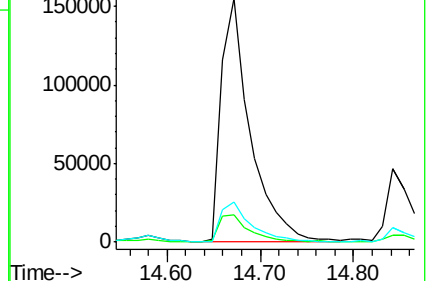
203 16.6 0.0 37.6

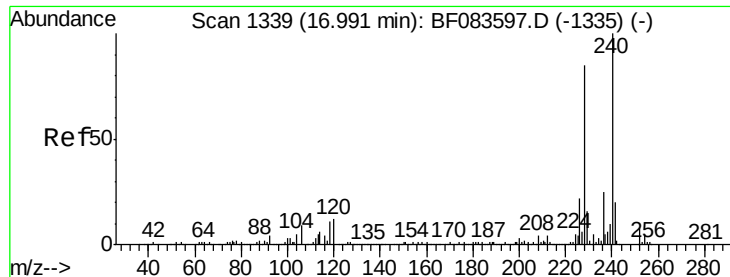


Abundance Ion 202.00 (201.70 to 202.70): E

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: 16.91 min Scan# 1332

Delta R.T. -0.08 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

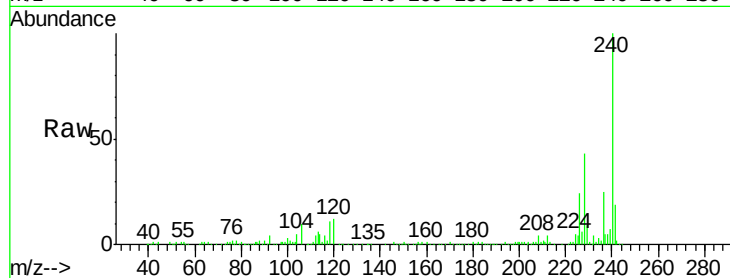
Tgt Ion:240 Resp: 411229

Ion Ratio Lower Upper

240 100

120 12.4 8.1 12.1#

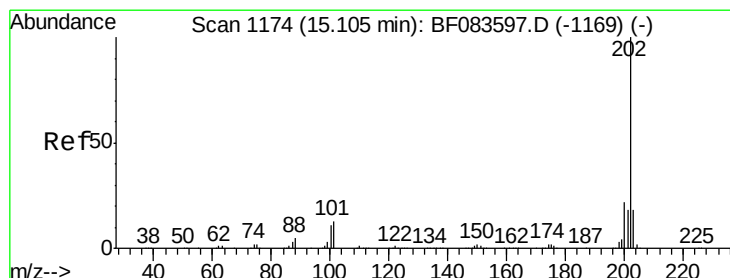
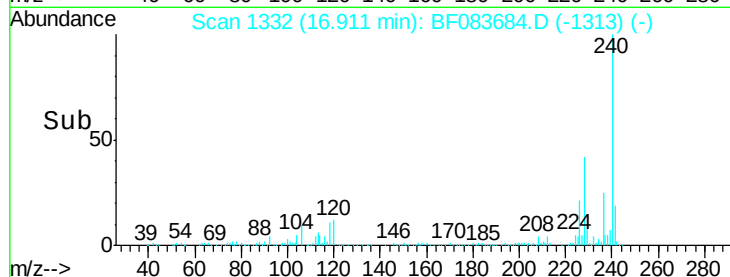
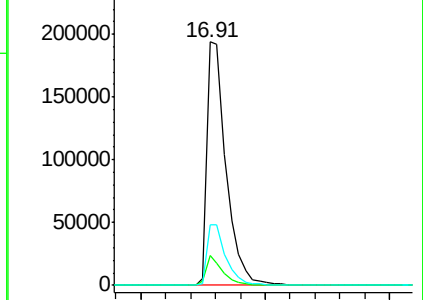
236 24.7 20.8 31.2



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: 16.28 ng

RT: 15.01 min Scan# 1166

Delta R.T. -0.09 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

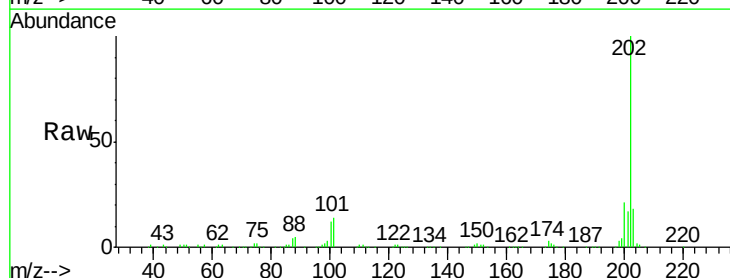
Tgt Ion:202 Resp: 482069

Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

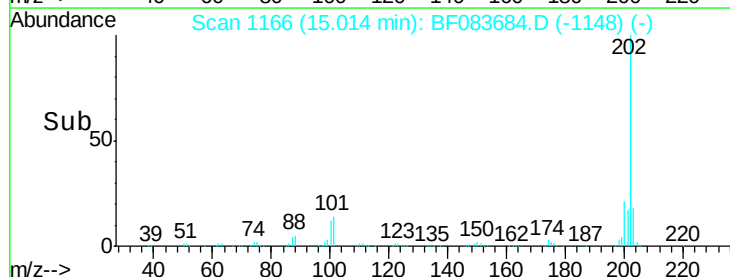
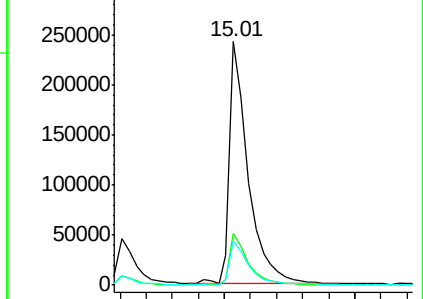
203 18.1 14.3 21.5

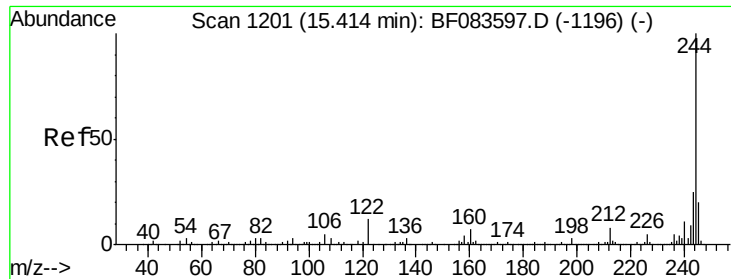


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

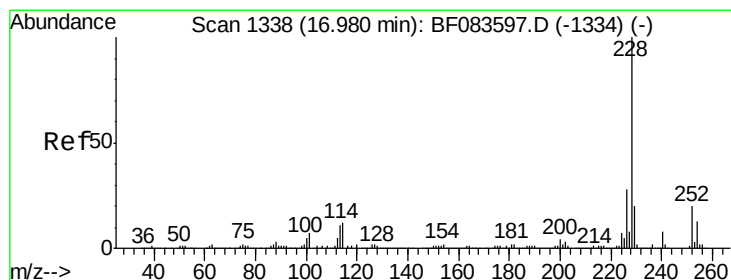
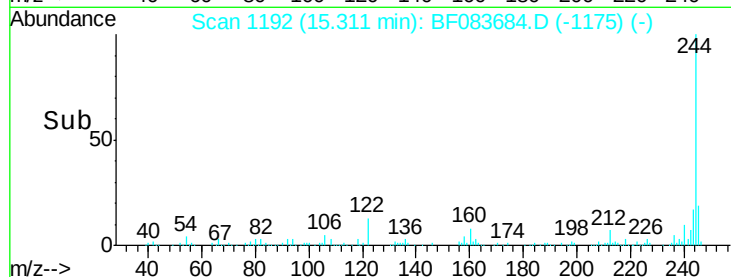
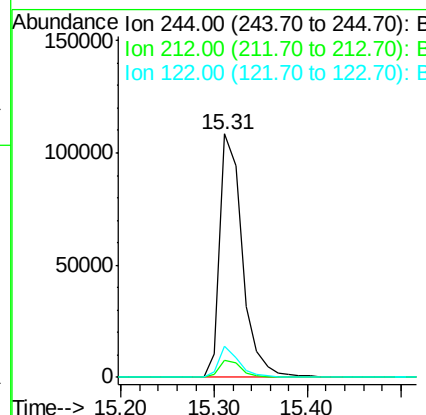
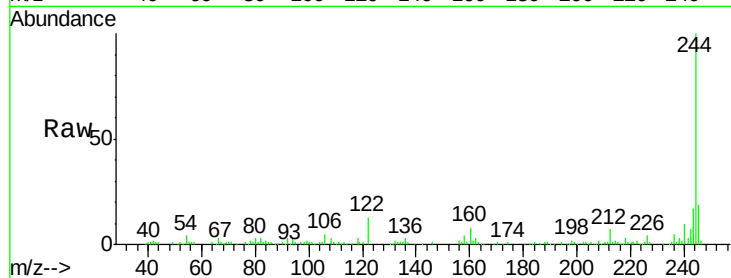




#78
 Terphenyl-d14
 Concen: 10.41 ng
 RT: 15.31 min Scan# 1192
 Delta R.T. -0.10 min
 Lab File: BF083684.D
 Acq: 10 Dec 2015 19:31

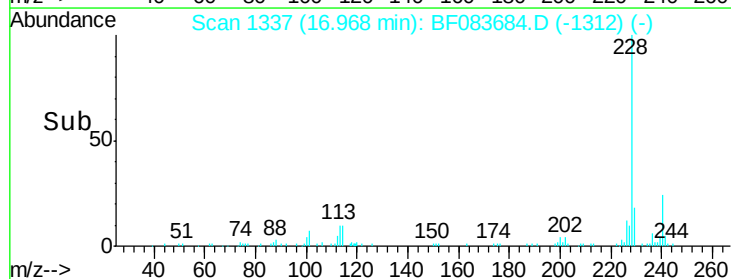
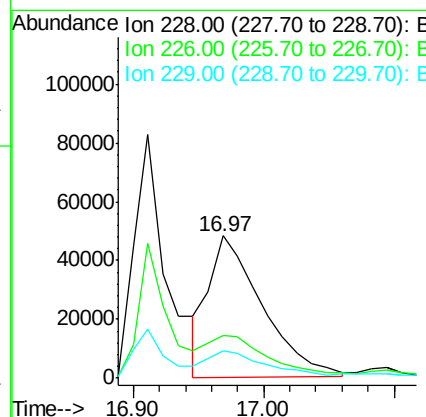
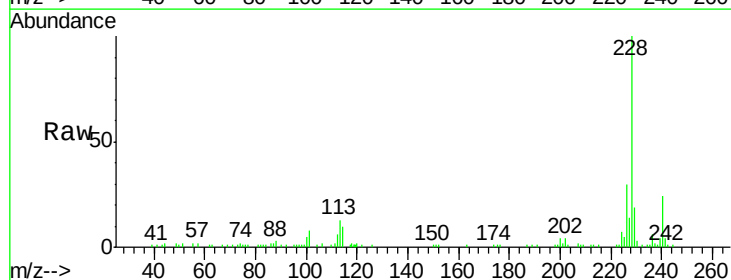
Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

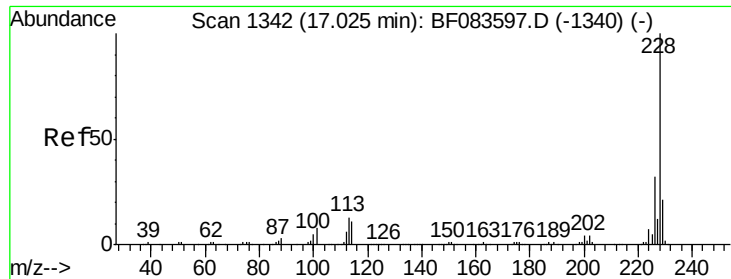
Tgt Ion: 244 Resp: 181964
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.1 9.1
 122 12.8 11.0 16.6



#80
 Benzo(a)anthracene
 Concen: 5.74 ng
 RT: 16.97 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: BF083684.D
 Acq: 10 Dec 2015 19:31

Tgt Ion: 228 Resp: 138209
 Ion Ratio Lower Upper
 228 100
 226 30.0 22.3 33.5
 229 19.1 15.7 23.5





#82

Chrysene

Concen: 5.76 ng

RT: 16.97 min Scan# 1337

Delta R.T. -0.06 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

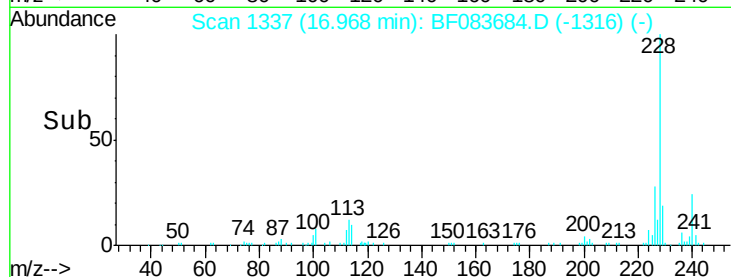
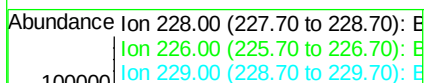
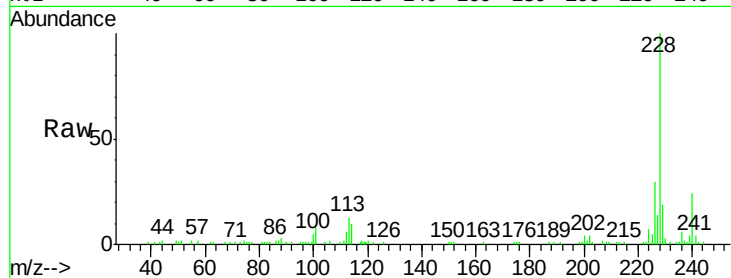
Tgt Ion: 228 Resp: 138868

Ion Ratio Lower Upper

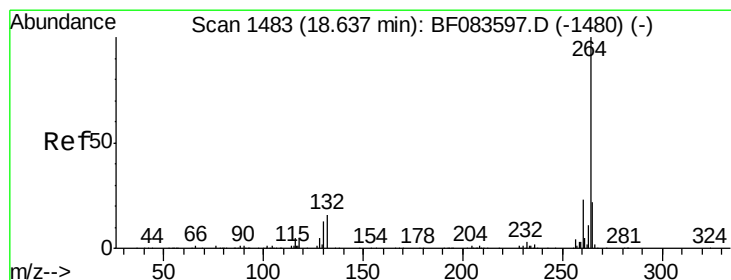
228 100

226 30.0 24.7 37.1

229 19.1 16.3 24.5



Time--> 16.90 17.00



#86

Perylene-d12

Concen: 20.00 ng

RT: 18.58 min Scan# 1478

Delta R.T. -0.06 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

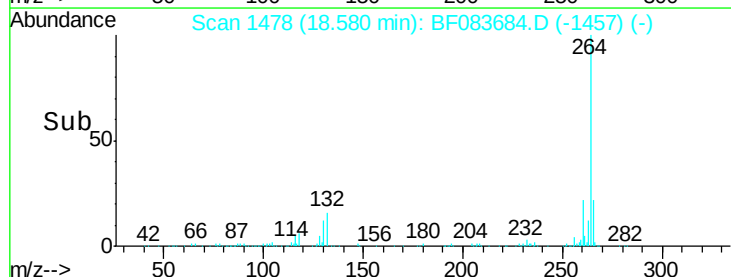
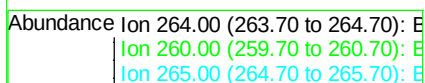
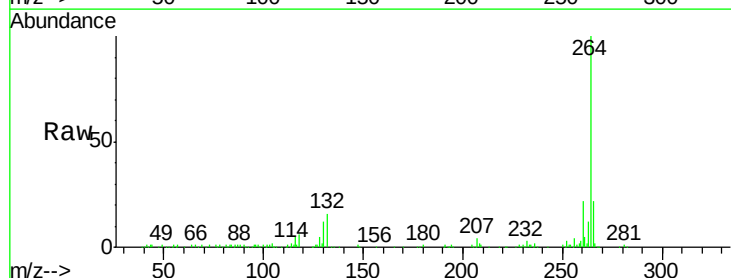
Tgt Ion: 264 Resp: 306266

Ion Ratio Lower Upper

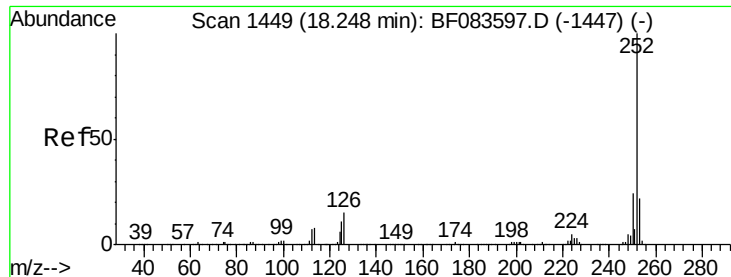
264 100

260 22.5 19.4 29.0

265 21.9 17.8 26.6



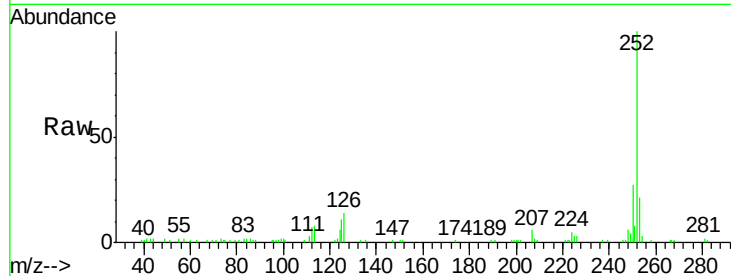
Time--> 18.60 18.80



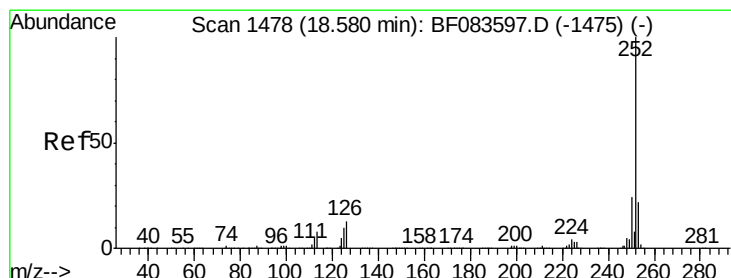
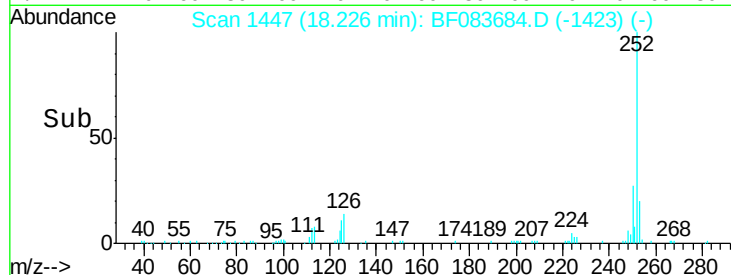
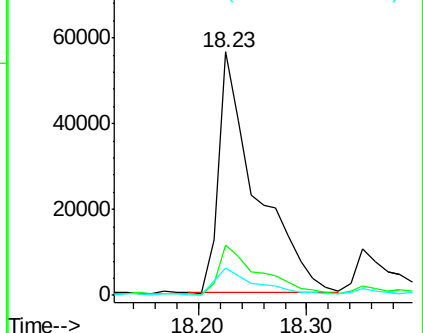
#87
Benzo(b)fluoranthene
Concen: 7.70 ng
RT: 18.23 min Scan# 1447
Delta R.T. -0.02 min
Lab File: BF083684.D
Acq: 10 Dec 2015 19:31

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 252 Resp: 134350
Ion Ratio Lower Upper
252 100
253 20.7 18.2 27.4
125 11.4 8.2 12.4

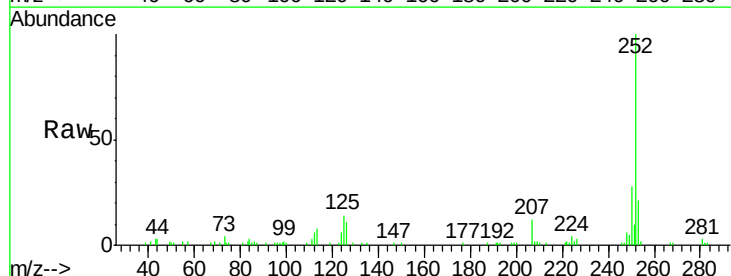


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

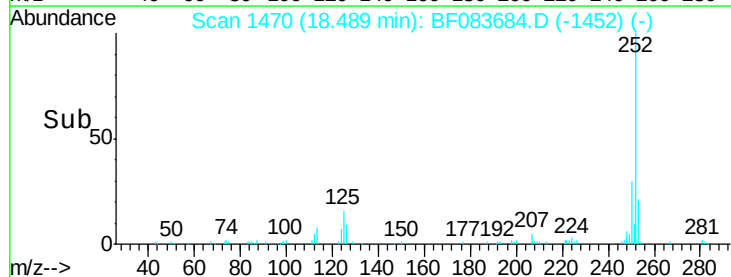
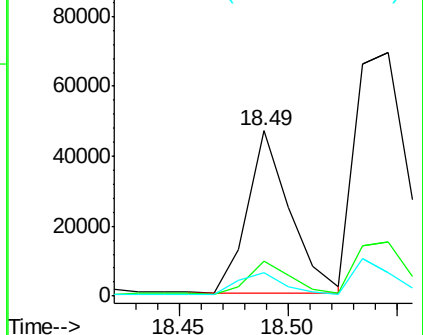


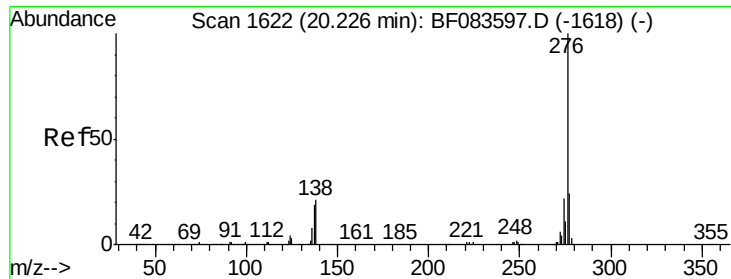
#89
Benzo(a)pyrene
Concen: 3.78 ng
RT: 18.49 min Scan# 1470
Delta R.T. -0.09 min
Lab File: BF083684.D
Acq: 10 Dec 2015 19:31

Tgt Ion: 252 Resp: 64261
Ion Ratio Lower Upper
252 100
253 21.3 17.5 26.3
125 14.3 11.0 16.6



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





#91

Benzo(g,h,i)perylene

Concen: 3.74 ng

RT: 20.25 min Scan# 1624

Delta R.T. 0.02 min

Lab File: BF083684.D

Acq: 10 Dec 2015 19:31

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

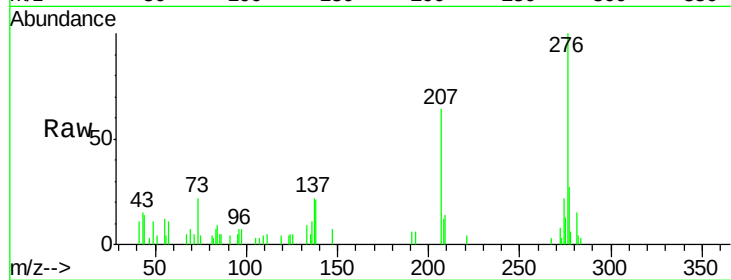
Tgt Ion: 276 Resp: 47413

Ion Ratio Lower Upper

276 100

277 26.7 19.2 28.8

138 21.4 19.5 29.3



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

