

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091415\
 Data File : BF081623.D
 Acq On : 15 Sep 2015 2:45
 Operator : UM/IZ
 Sample : G3597-15 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GP-15(0-5)

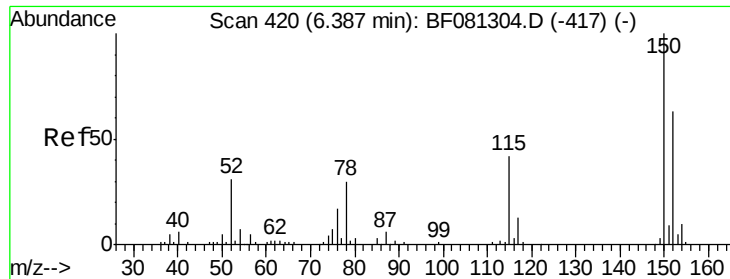
Quant Time: Sep 15 04:06:50 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF090115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 14 13:51:56 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.23	152	46991	20.00	ng	0.00
21) Naphthalene-d8	11.13	136	184447	20.00	ng	0.00
38) Acenaphthene-d10	15.27	164	79239	20.00	ng	0.00
63) Phenanthrene-d10	18.78	188	133735	20.00	ng	0.01
75) Chrysene-d12	23.40	240	97035	20.00	ng	0.00
86) Perylene-d12	24.84	264	63971	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	47767	15.77	ng	0.01
7) Phenol-d6	7.65	99	71234	17.77	ng	-0.01
23) Nitrobenzene-d5	9.52	82	43798	11.46	ng	-0.02
41) 2,4,6-Tribromophenol	17.17	330	8388	11.89	ng	-0.01
44) 2-Fluorobiphenyl	13.77	172	77835	12.59	ng	-0.01
78) Terphenyl-d14	22.12	244	45305	10.87	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	1.54	88	40703	29.92	ng	# 11
19) n-Nitroso-di-n-propylamine	9.52	70	5475	2.01	ng	# 67
49) Dimethylphthalate	14.84	163	15354	2.49	ng	# 93
55) 4-Nitrophenol	15.77	139	3447	3.45	ng	# 25
57) Fluorene	16.57	166	13756	2.34	ng	# 91
70) Phenanthrene	18.82	178	182216	24.51	ng	98
71) Anthracene	18.95	178	35472	4.64	ng	97
74) Fluoranthene	21.44	202	193799	24.08	ng	89
76) Benzidine	21.76	184	9396	2.26	ng	# 91
77) Pyrene	21.80	202	198501	27.62	ng	# 95
79) Butylbenzylphthalate	22.81	149	7683	2.46	ng	# 59
80) Benzo(a)anthracene	23.38	228	95726	15.49	ng	98
82) Chrysene	23.42	228	74689	13.48	ng	92
83) Bis(2-ethylhexyl)phthalate	23.50	149	15149	3.67	ng	# 90
85) Indeno(1,2,3-cd)pyrene	25.89	276	24782	6.10	ng	# 77
87) Benzo(b)fluoranthene	24.49	252	116964	25.61	ng	# 88
88) Benzo(k)fluoranthene	24.49	252	116964	30.86	ng	# 88
89) Benzo(a)pyrene	24.78	252	52009	13.44	ng	# 89
90) Dibenzo(a,h)anthracene	25.89	278	7817	2.61	ng	# 56
91) Benzo(g,h,i)perylene	26.20	276	21806	7.64	ng	# 73

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.23 min Scan# 603

Delta R.T. 0.00 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

Instrument :

BNA_F

ClientSampleId :

GP-15(0-5)

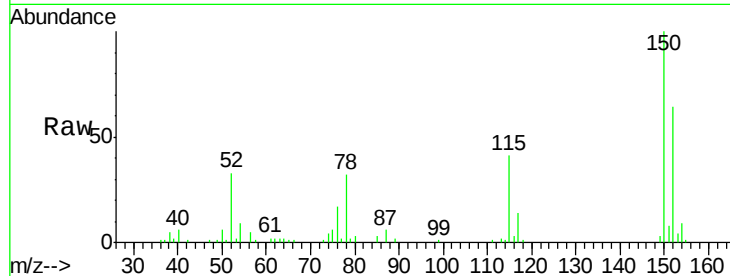
Tgt Ion:152 Resp: 46991

Ion Ratio Lower Upper

152 100

150 157.1 124.7 187.1

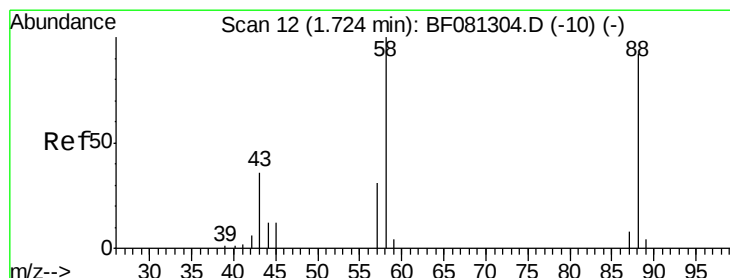
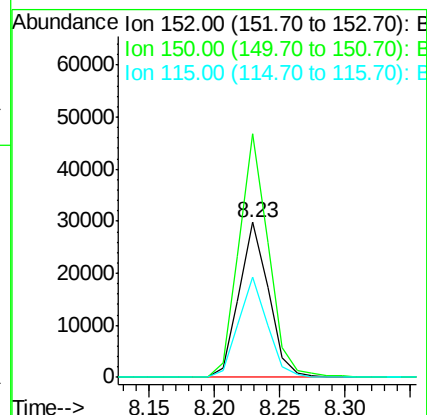
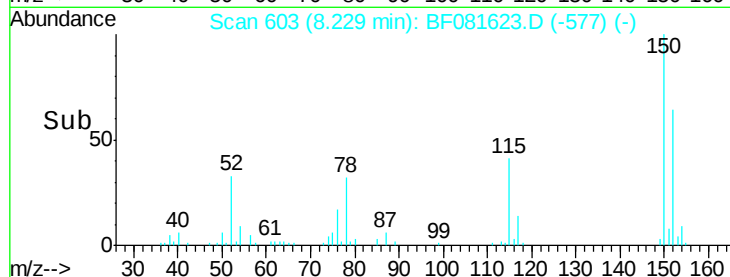
115 64.4 39.0 58.4#



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



#2

1,4-Dioxane

Concen: 29.92 ng

RT: 1.54 min Scan# 18

Delta R.T. -0.02 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

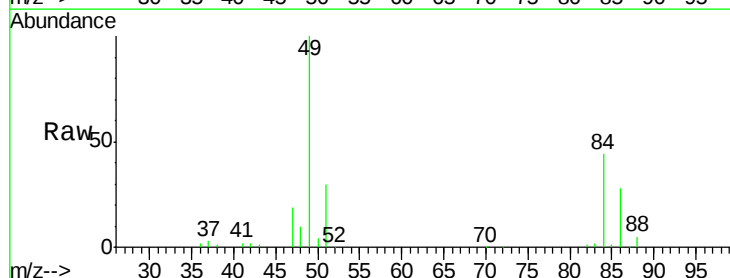
Tgt Ion: 88 Resp: 40703

Ion Ratio Lower Upper

88 100

58 0.0 77.7 116.5#

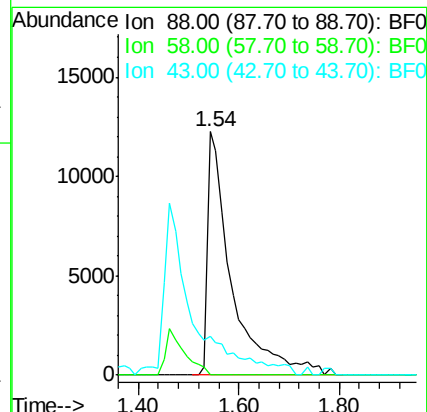
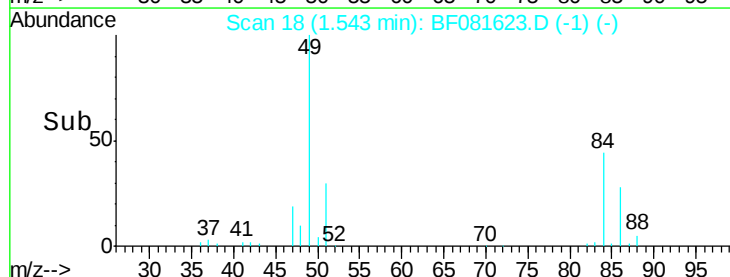
43 0.0 26.6 40.0#

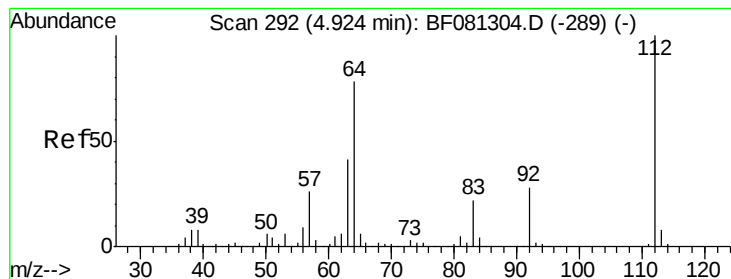


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 15.77 ng

RT: 5.38 min Scan# 354

Delta R.T. 0.01 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

Instrument :

BNA_F

ClientSampled :

GP-15(0-5)

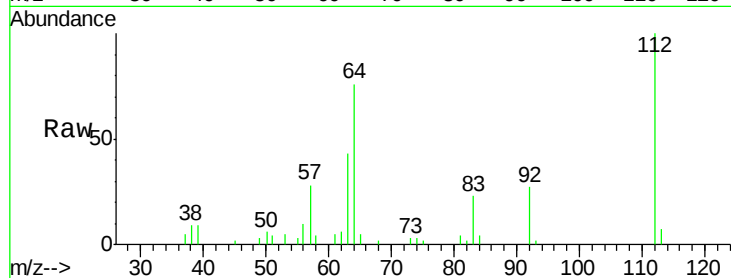
Tgt Ion: 112 Resp: 47767

Ion Ratio Lower Upper

112 100

64 76.5 39.7 59.5#

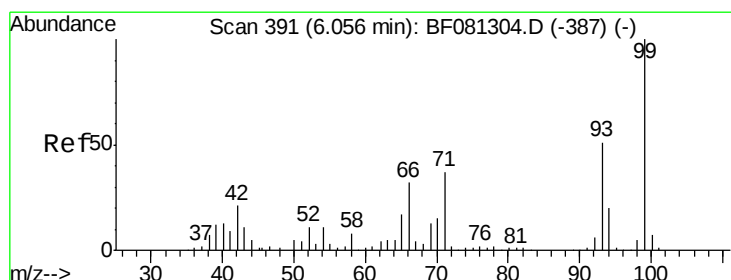
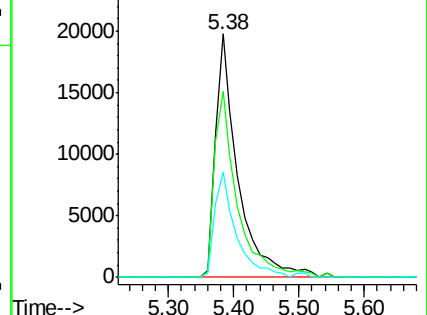
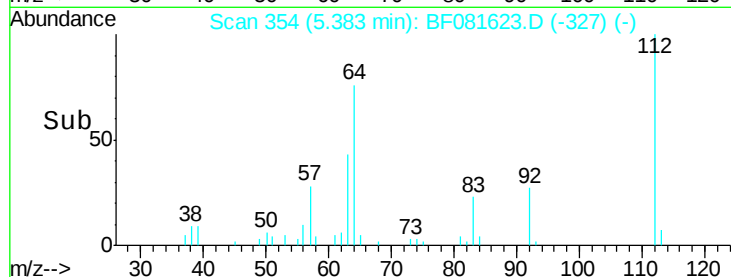
63 43.3 17.4 26.0#



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 17.77 ng

RT: 7.65 min Scan# 552

Delta R.T. -0.01 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

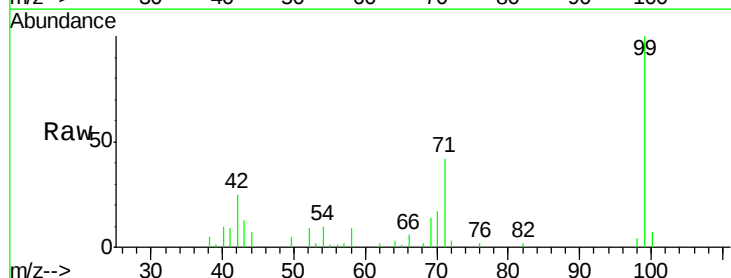
Tgt Ion: 99 Resp: 71234

Ion Ratio Lower Upper

99 100

42 24.9 13.7 20.5#

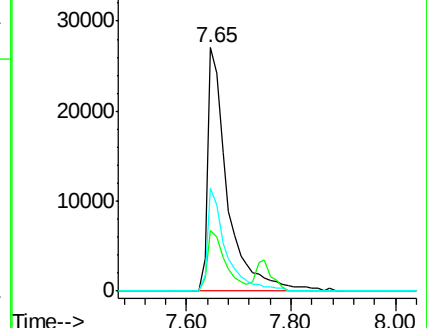
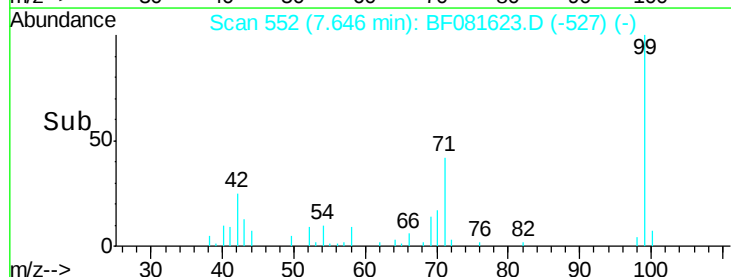
71 42.4 14.2 21.2#

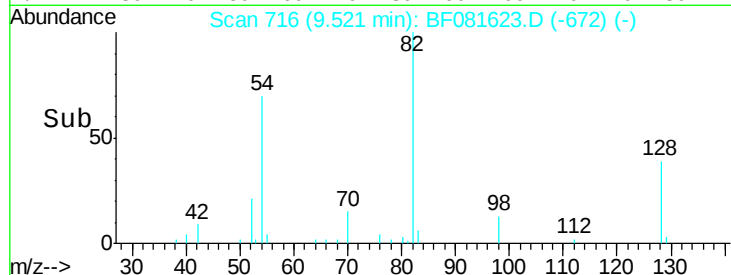
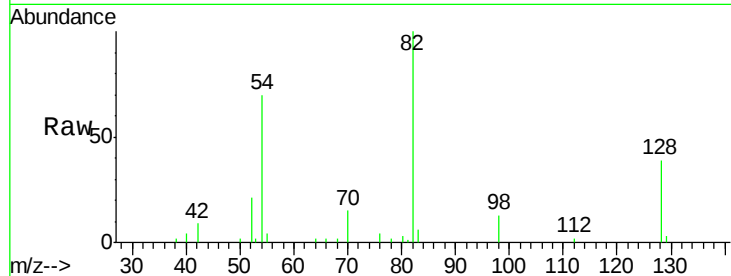
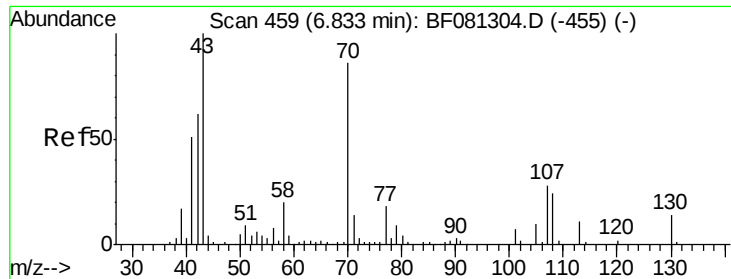


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

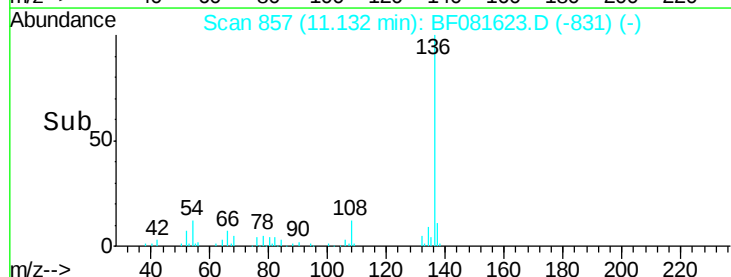
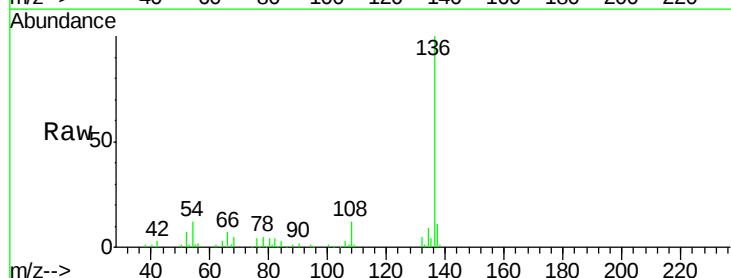
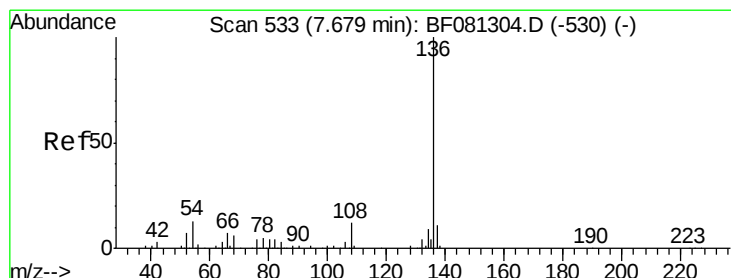
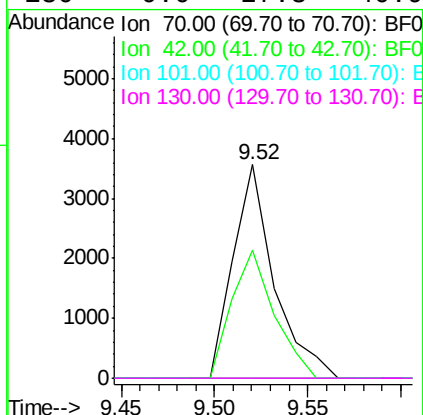




#19
n-Nitroso-di-n-propylamine
Concen: 2.01 ng
RT: 9.52 min Scan# 716
Delta R.T. 0.21 min
Lab File: BF081623.D
Acq: 15 Sep 2015 2:45

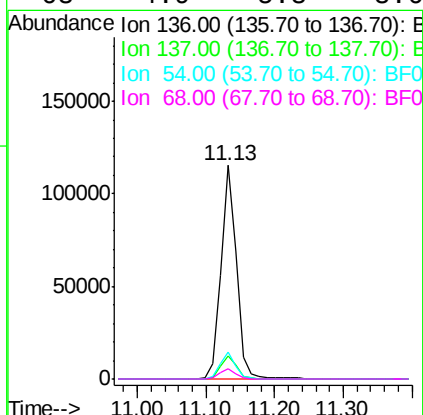
Instrument :
BNA_F
ClientSampleId :
GP-15(0-5)

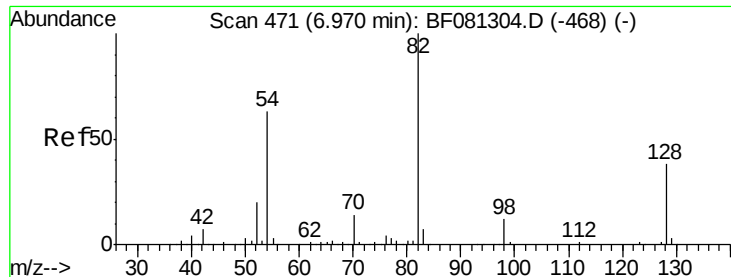
Tgt Ion:	70	Resp:	5475
Ion Ratio	Lower	Upper	
70	100		
42	60.0	63.8	95.6#
101	0.0	9.2	13.8#
130	0.0	27.3	40.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 11.13 min Scan# 857
Delta R.T. 0.00 min
Lab File: BF081623.D
Acq: 15 Sep 2015 2:45

Tgt Ion:	136	Resp:	184447
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.0	13.6
54	12.4	8.2	12.2#
68	4.9	5.8	8.6#

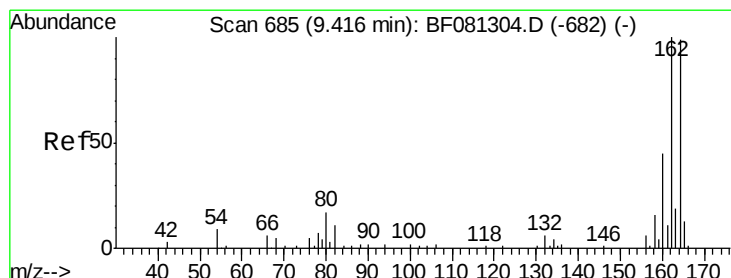
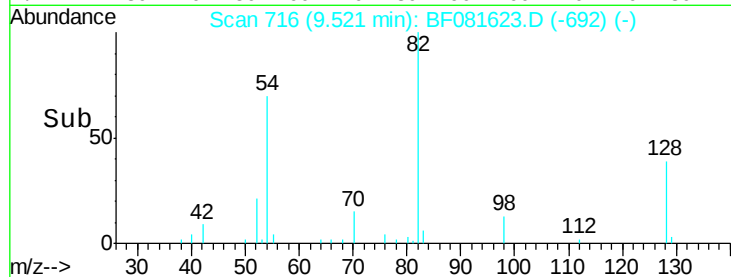
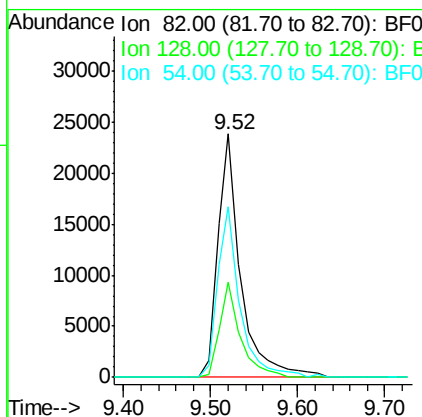
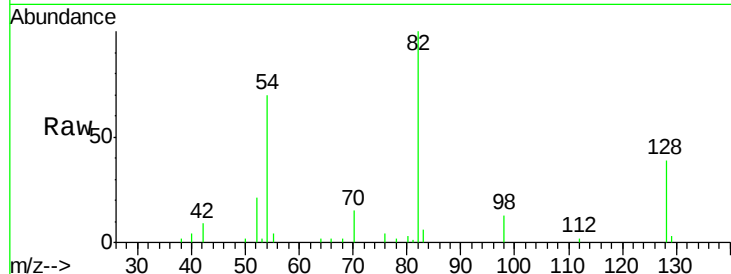




#23
 Nitrobenzene-d5
 Concen: 11.46 ng
 RT: 9.52 min Scan# 716
 Delta R.T. -0.02 min
 Lab File: BF081623.D
 Acq: 15 Sep 2015 2:45

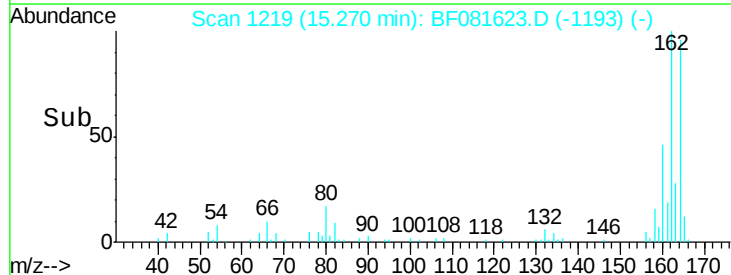
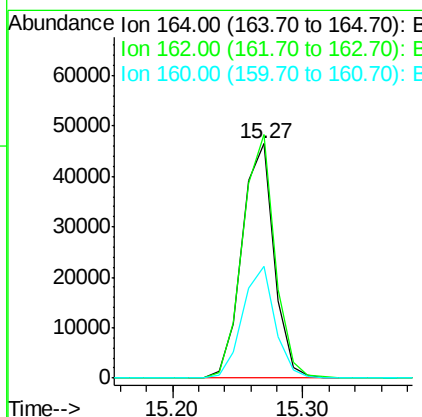
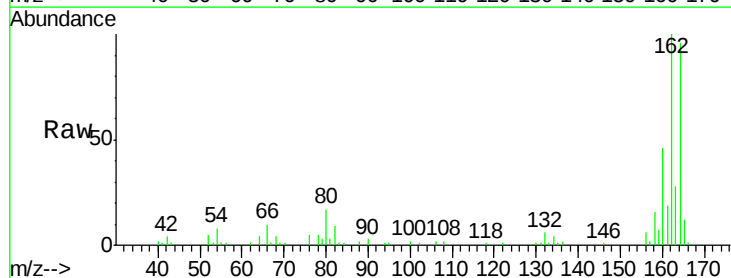
Instrument :
 BNA_F
 ClientSampleId :
 GP-15(0-5)

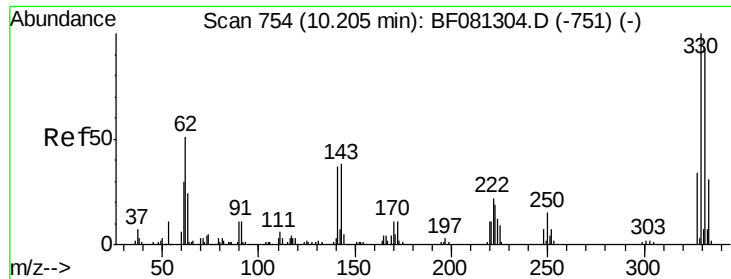
Tgt Ion: 82 Resp: 43798
 Ion Ratio Lower Upper
 82 100
 128 38.9 51.0 76.6#
 54 70.0 47.5 71.3



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 15.27 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: BF081623.D
 Acq: 15 Sep 2015 2:45

Tgt Ion: 164 Resp: 79239
 Ion Ratio Lower Upper
 164 100
 162 103.9 75.2 112.8
 160 47.8 31.5 47.3#

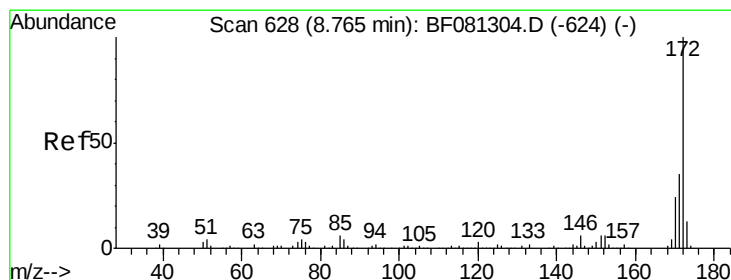
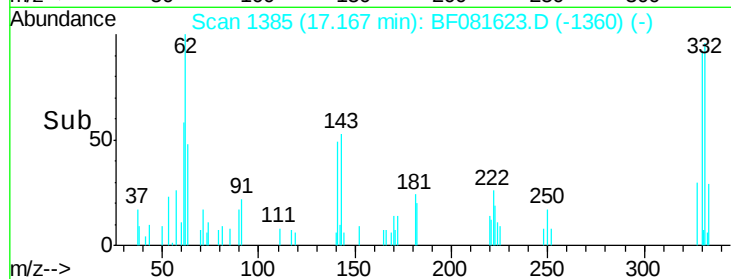
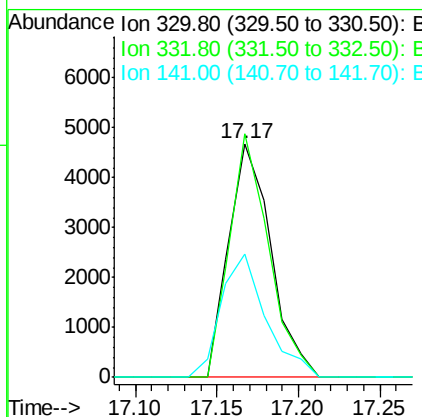
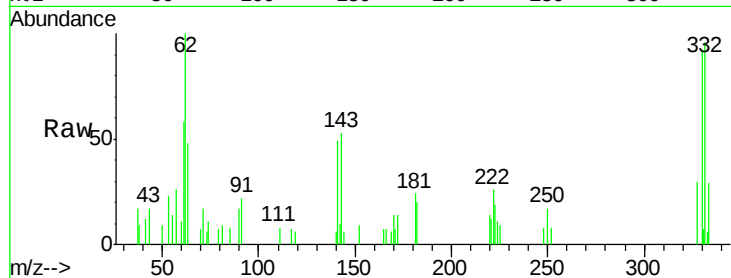




#41
 2,4,6-Tribromophenol
 Concen: 11.89 ng
 RT: 17.17 min Scan# 1385
 Delta R.T. -0.01 min
 Lab File: BF081623.D
 Acq: 15 Sep 2015 2:45

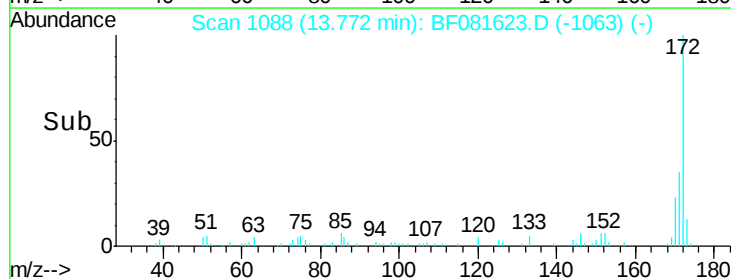
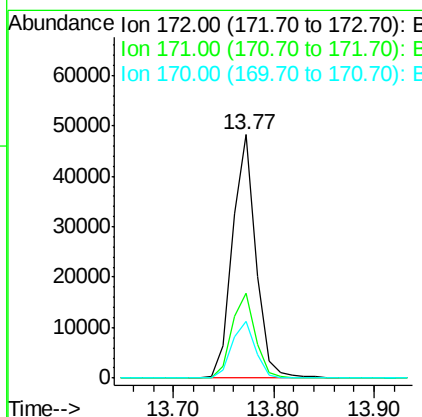
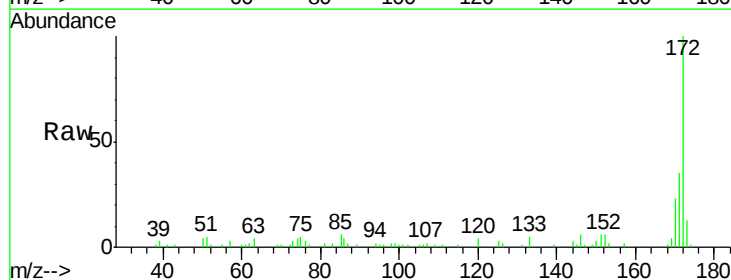
Instrument :
 BNA_F
 ClientSampleId :
 GP-15(0-5)

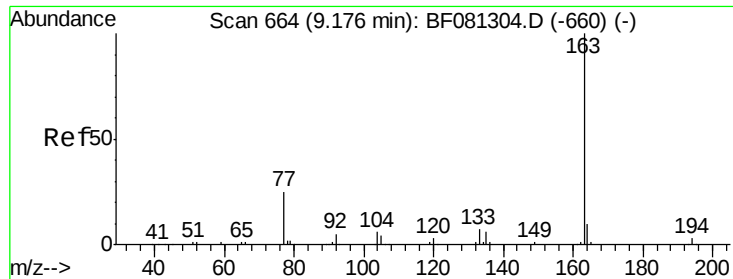
Tgt Ion:330 Resp: 8388
 Ion Ratio Lower Upper
 330 100
 332 96.5 76.6 114.8
 141 56.0 29.7 44.5#



#44
 2-Fluorobiphenyl
 Concen: 12.59 ng
 RT: 13.77 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: BF081623.D
 Acq: 15 Sep 2015 2:45

Tgt Ion:172 Resp: 77835
 Ion Ratio Lower Upper
 172 100
 171 35.0 26.1 39.1
 170 23.2 17.4 26.2





#49

Dimethylphthalate

Concen: 2.49 ng

RT: 14.84 min Scan# 1181

Delta R.T. -0.03 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

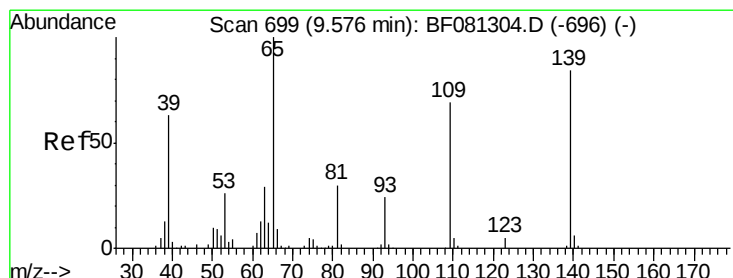
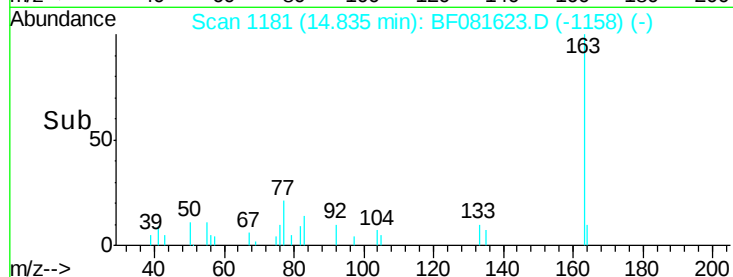
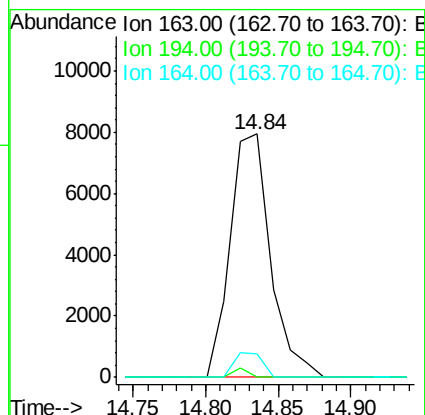
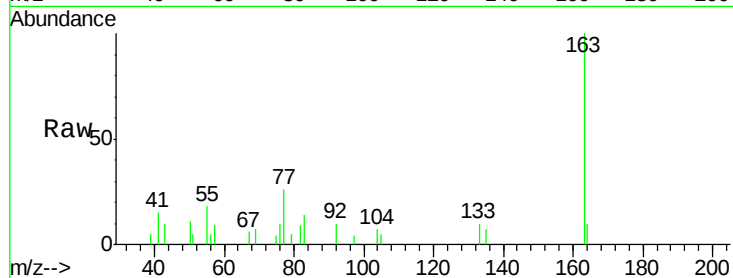
Instrument :

BNA_F

ClientSampleId :

GP-15(0-5)

Tgt Ion:	163	Resp:	15354
Ion	Ratio	Lower	Upper
163	100		
194	0.0	4.4	6.6#
164	9.6	8.3	12.5



#55

4-Nitrophenol

Concen: 3.45 ng

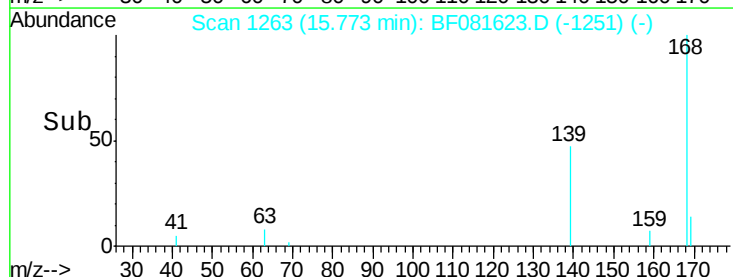
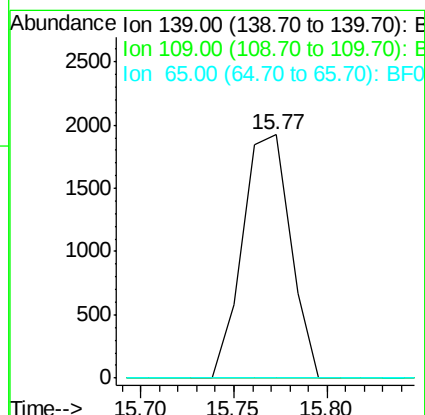
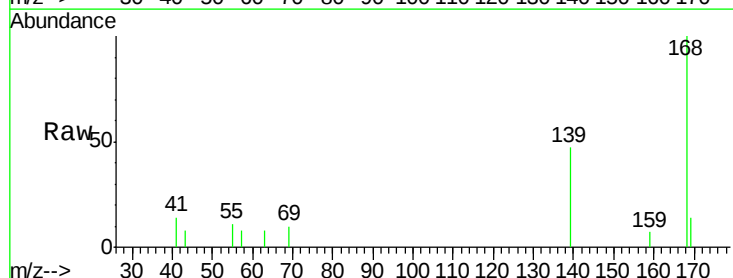
RT: 15.77 min Scan# 1263

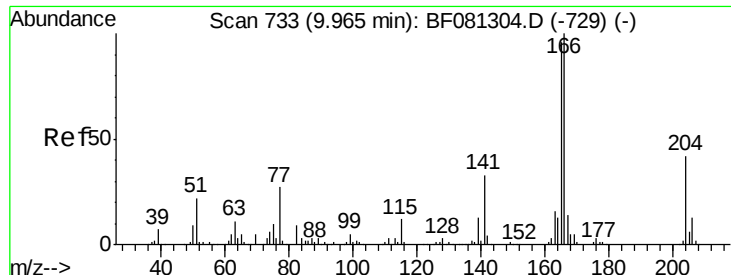
Delta R.T. -0.16 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

Tgt Ion:	139	Resp:	3447
Ion	Ratio	Lower	Upper
139	100		
109	0.0	12.7	52.7#
65	0.0	45.9	85.9#





#57

Fluorene

Concen: 2.34 ng

RT: 16.57 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

Instrument :

BNA_F

ClientSampleId :

GP-15(0-5)

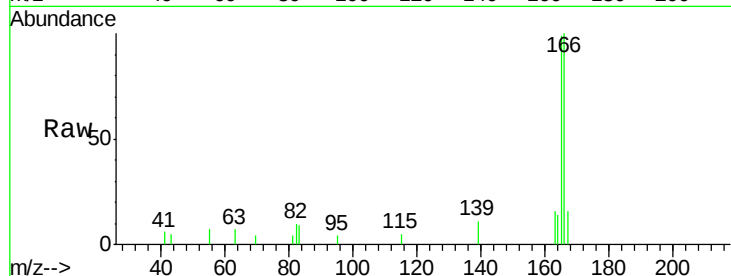
Tgt Ion:166 Resp: 13756

Ion Ratio Lower Upper

166 100

165 99.5 72.6 109.0

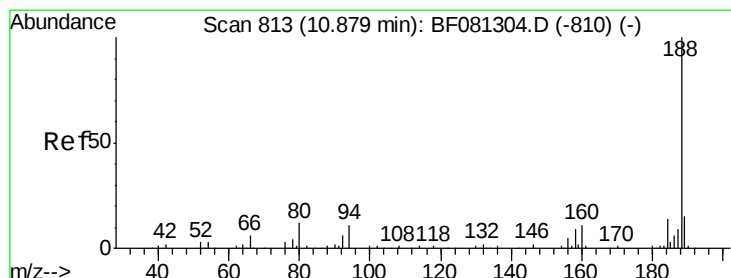
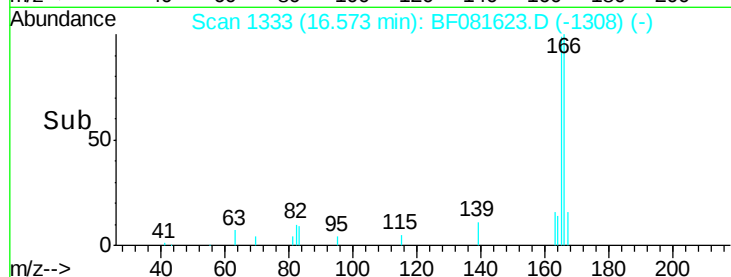
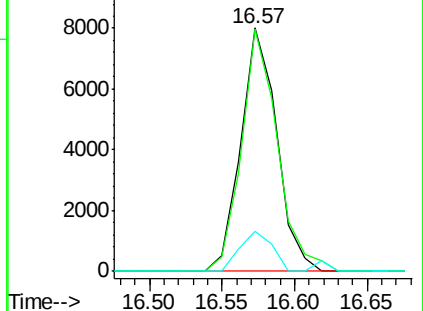
167 16.4 10.6 16.0#



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: 18.78 min Scan# 1526

Delta R.T. 0.01 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

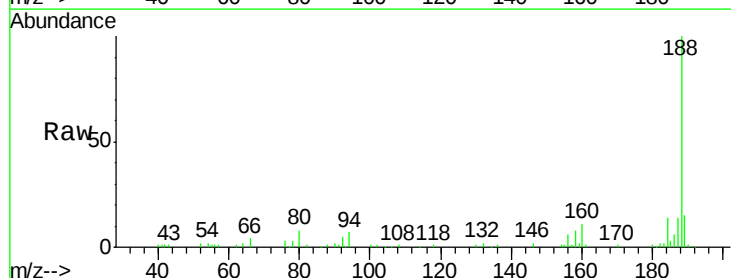
Tgt Ion:188 Resp: 133735

Ion Ratio Lower Upper

188 100

94 6.6 11.1 16.7#

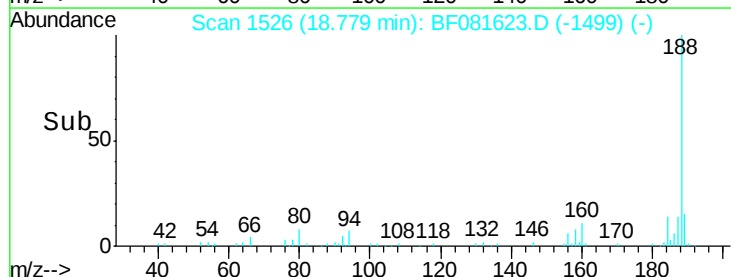
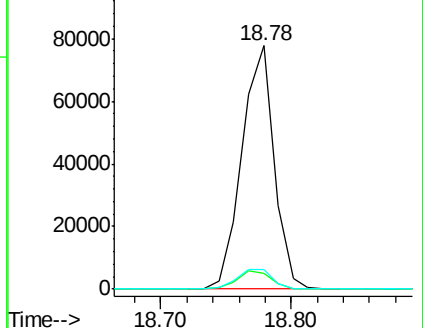
80 8.0 11.0 16.4#

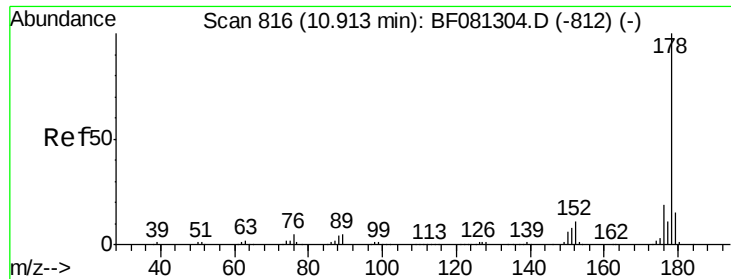


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

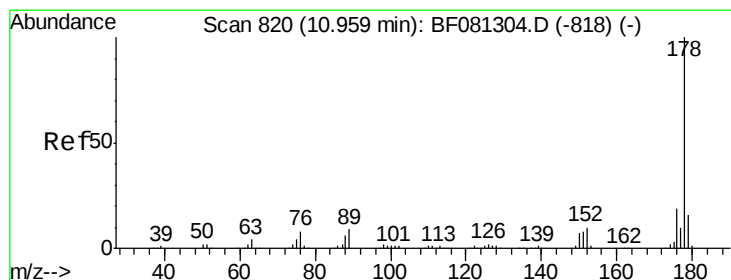
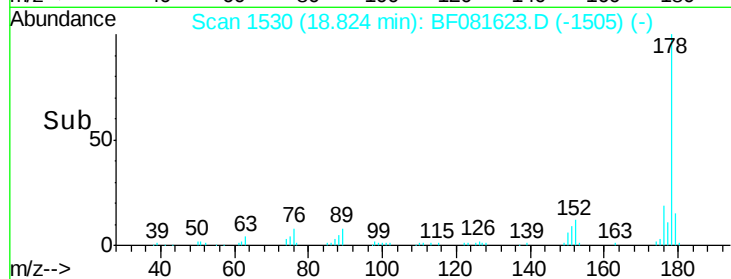
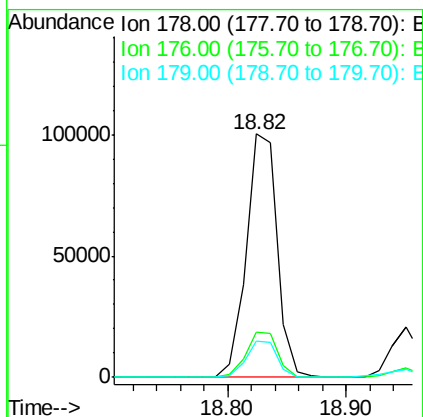
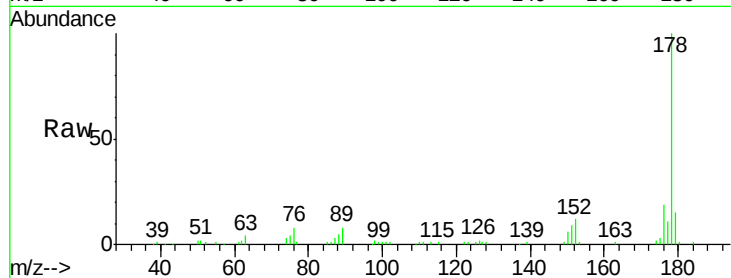




#70
Phenanthrene
Concen: 24.51 ng
RT: 18.82 min Scan# 1530
Delta R.T. -0.01 min
Lab File: BF081623.D
Acq: 15 Sep 2015 2:45

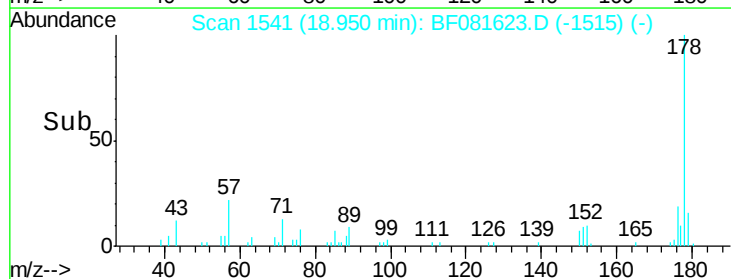
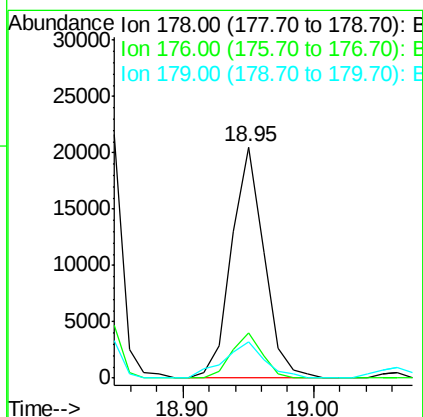
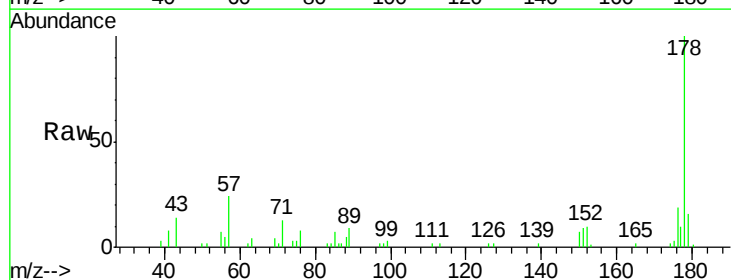
Instrument :
BNA_F
ClientSampled :
GP-15(0-5)

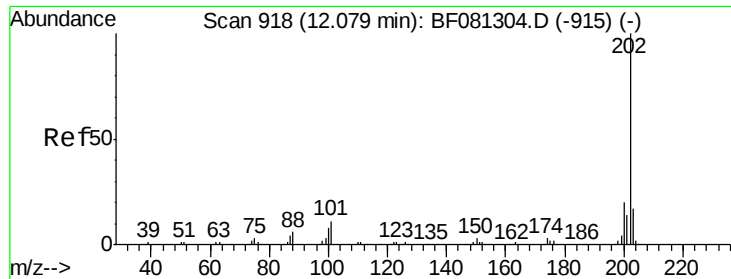
Tgt Ion:178 Resp: 182216
Ion Ratio Lower Upper
178 100
176 18.8 13.8 20.8
179 15.1 12.2 18.2



#71
Anthracene
Concen: 4.64 ng
RT: 18.95 min Scan# 1541
Delta R.T. 0.00 min
Lab File: BF081623.D
Acq: 15 Sep 2015 2:45

Tgt Ion:178 Resp: 35472
Ion Ratio Lower Upper
178 100
176 19.4 14.1 21.1
179 15.9 12.2 18.2





#74

Fluoranthene

Concen: 24.08 ng

RT: 21.44 min Scan# 1759

Delta R.T. 0.00 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

Instrument :

BNA_F

ClientSampleId :

GP-15(0-5)

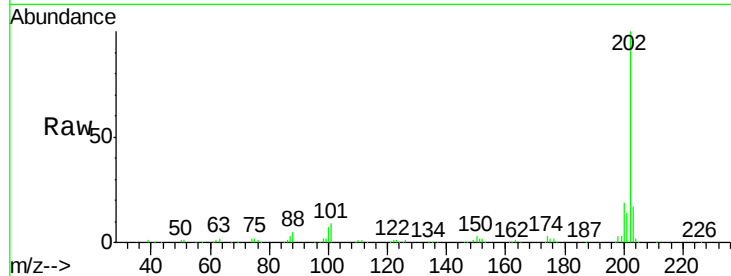
Tgt Ion:202 Resp: 193799

Ion Ratio Lower Upper

202 100

101 8.8 0.0 38.3

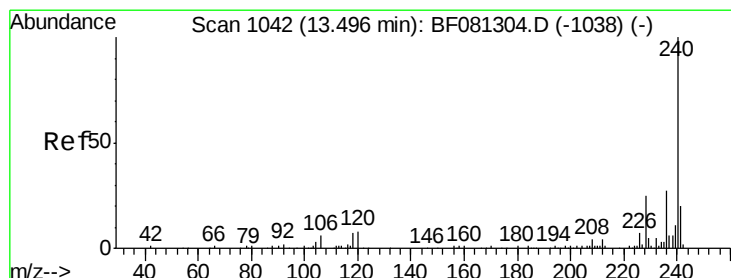
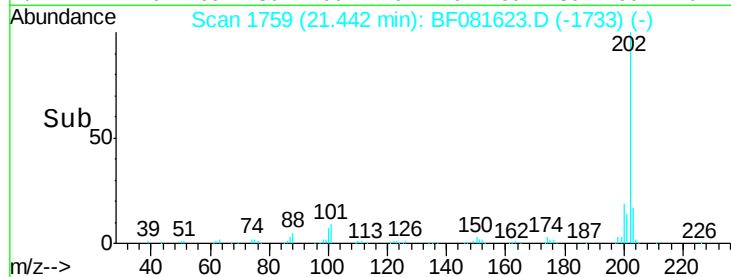
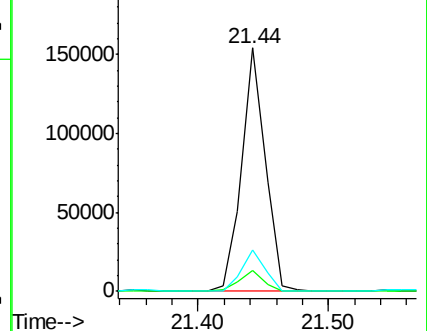
203 17.0 0.0 37.3



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: 23.40 min Scan# 1930

Delta R.T. 0.00 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

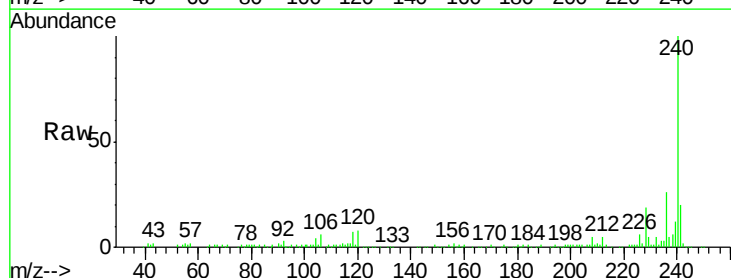
Tgt Ion:240 Resp: 97035

Ion Ratio Lower Upper

240 100

120 8.1 16.2 24.2#

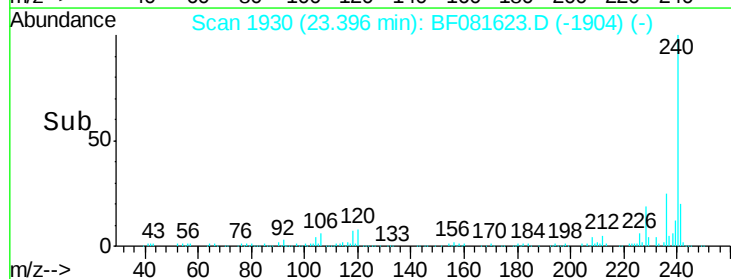
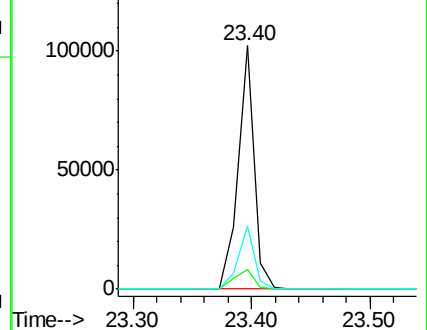
236 26.0 18.4 27.6

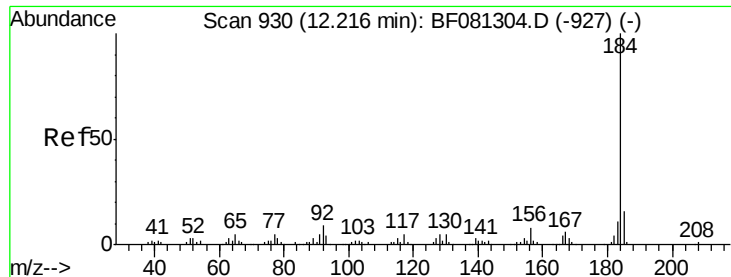


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 2.26 ng

RT: 21.76 min Scan# 1787

Delta R.T. 0.01 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

Instrument :

BNA_F

ClientSampleId :

GP-15(0-5)

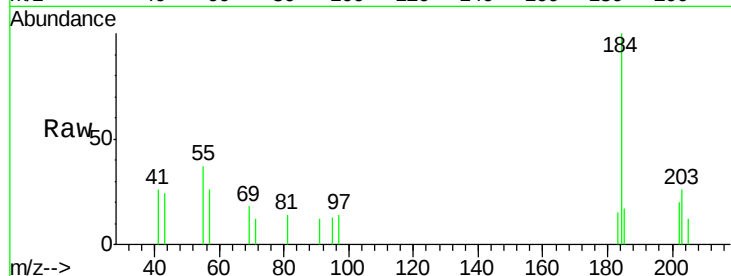
Tgt Ion:184 Resp: 9396

Ion Ratio Lower Upper

184 100

185 17.0 11.8 17.6

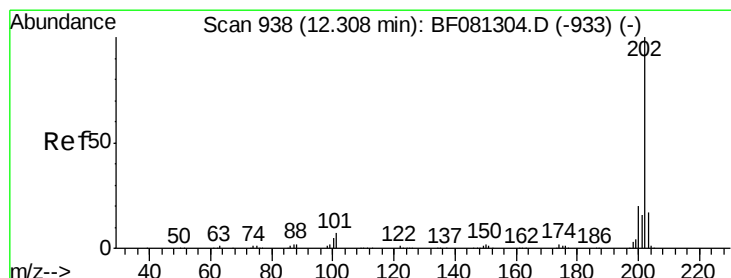
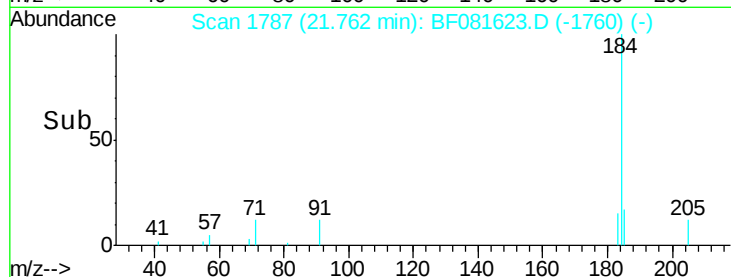
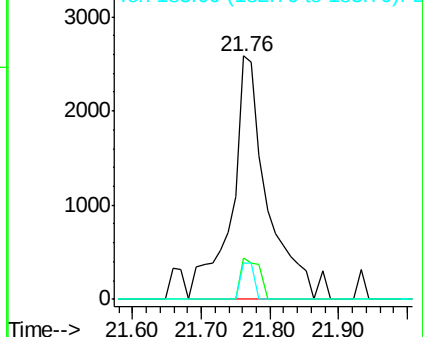
183 14.8 7.6 11.4#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 27.62 ng

RT: 21.80 min Scan# 1790

Delta R.T. 0.01 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

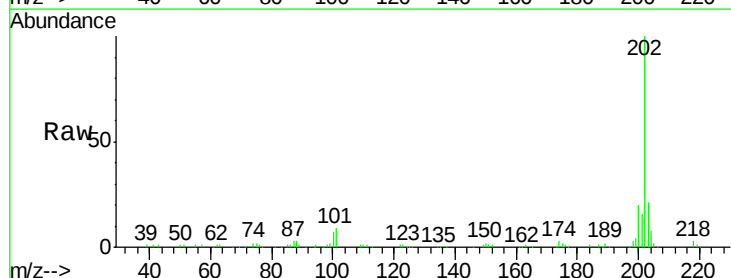
Tgt Ion:202 Resp: 198501

Ion Ratio Lower Upper

202 100

200 19.8 15.0 22.4

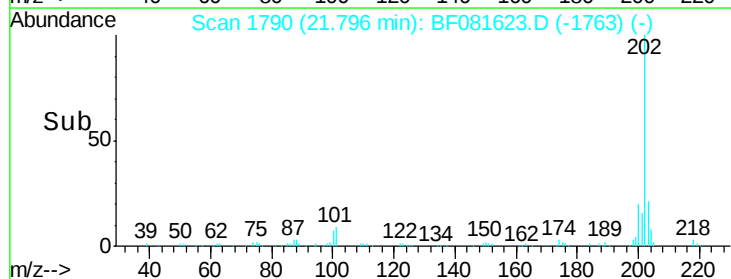
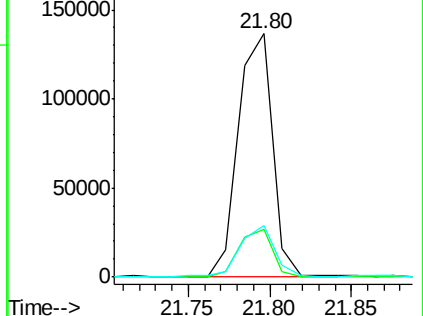
203 21.2 14.1 21.1#

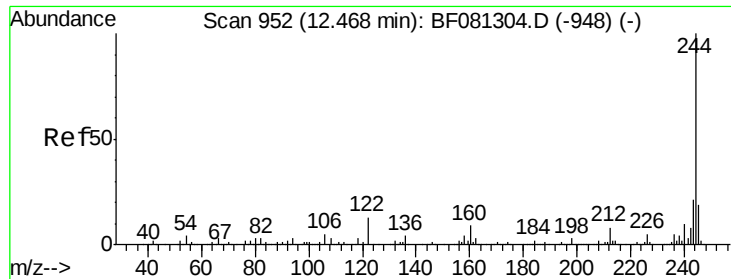


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 10.87 ng

RT: 22.12 min Scan# 1818

Delta R.T. 0.00 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

Instrument :

BNA_F

ClientSampleId :

GP-15(0-5)

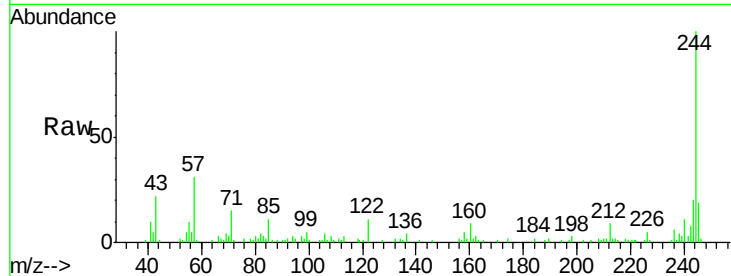
Tgt Ion:244 Resp: 45305

Ion Ratio Lower Upper

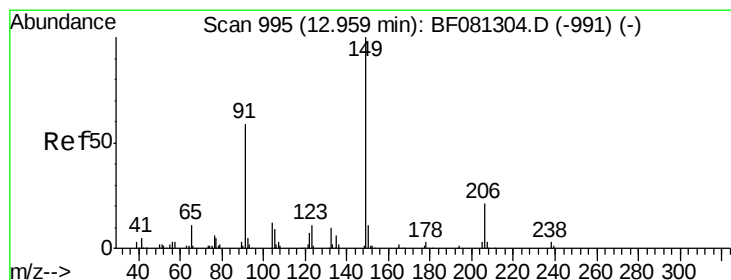
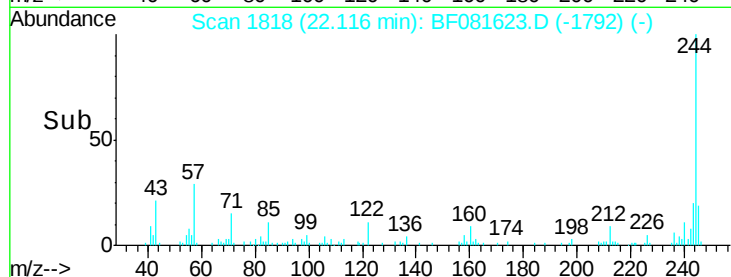
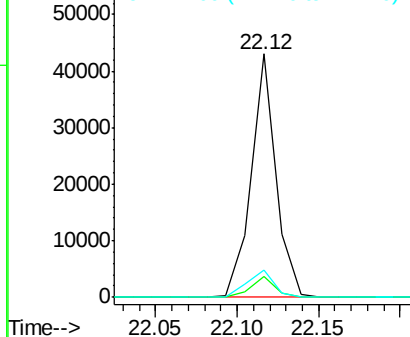
244 100

212 8.6 4.3 6.5#

122 11.0 17.4 26.2#



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



#79

Butylbenzylphthalate

Concen: 2.46 ng

RT: 22.81 min Scan# 1879

Delta R.T. 0.00 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

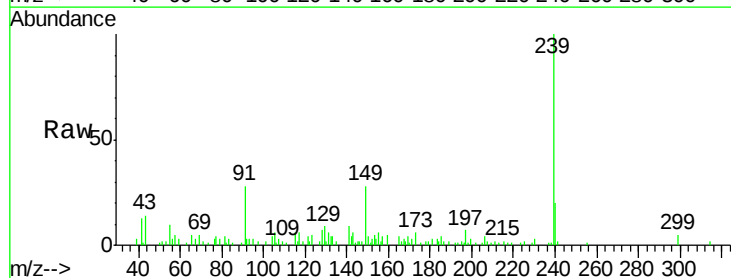
Tgt Ion:149 Resp: 7683

Ion Ratio Lower Upper

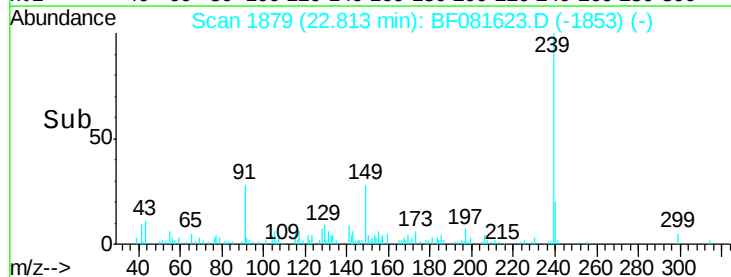
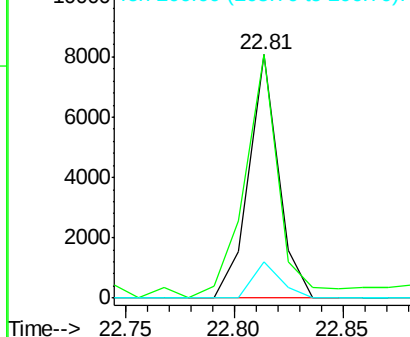
149 100

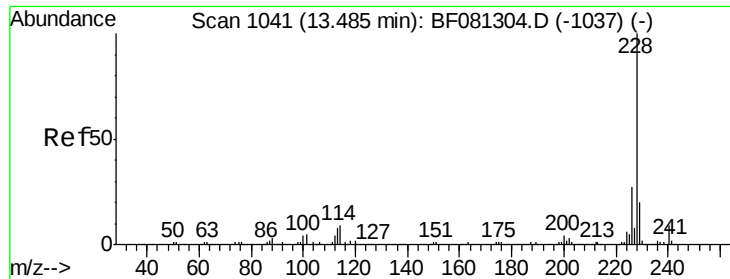
91 100.1 48.6 72.8#

206 15.1 14.9 22.3



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BF0
Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 15.49 ng

RT: 23.38 min Scan# 1929

Delta R.T. 0.01 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

Instrument :

BNA_F

ClientSampleId :

GP-15(0-5)

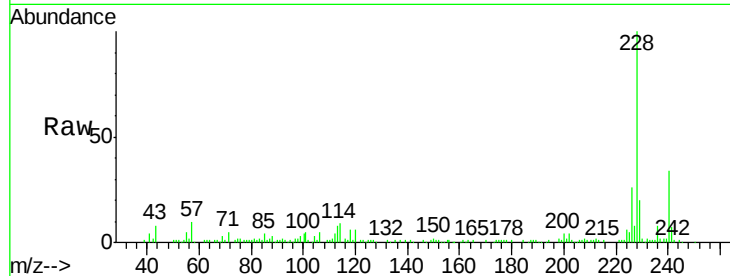
Tgt Ion:228 Resp: 95726

Ion Ratio Lower Upper

228 100

226 26.2 20.0 30.0

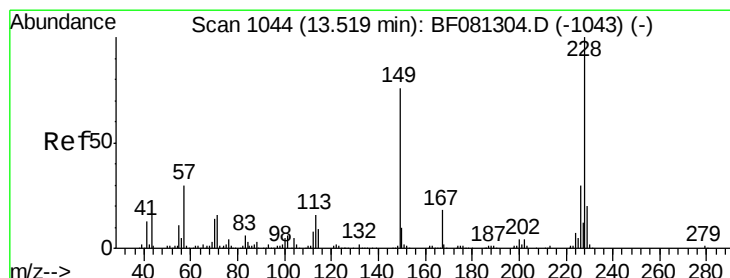
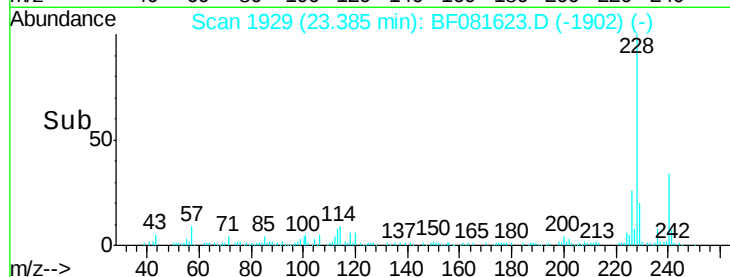
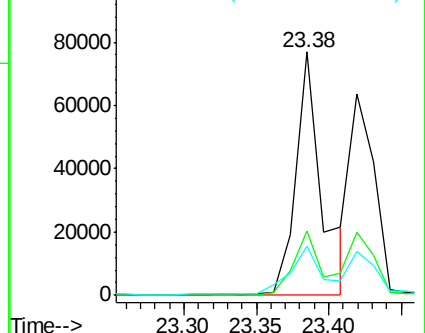
229 20.1 15.4 23.2



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: 13.48 ng

RT: 23.42 min Scan# 1932

Delta R.T. 0.00 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

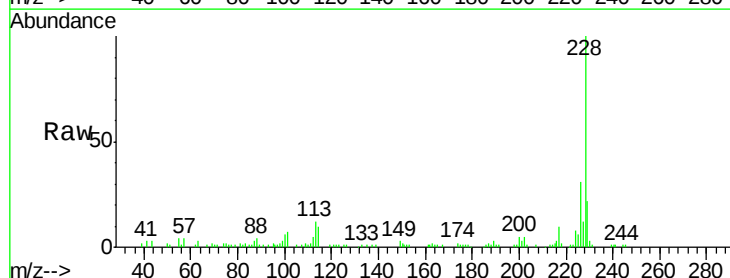
Tgt Ion:228 Resp: 74689

Ion Ratio Lower Upper

228 100

226 31.1 21.0 31.4

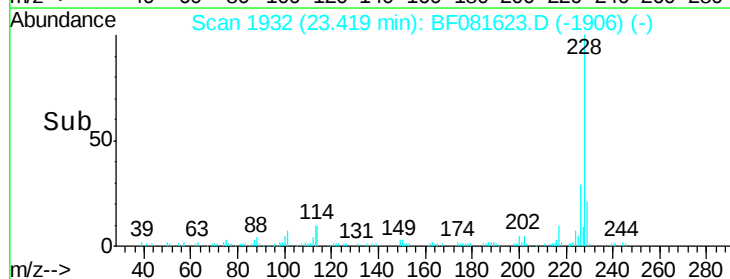
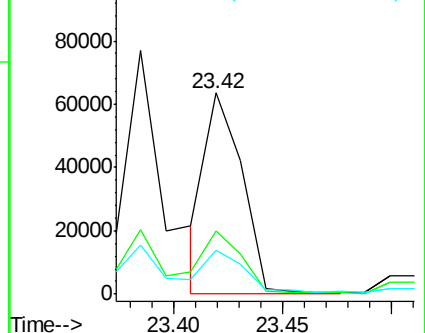
229 21.8 15.6 23.4

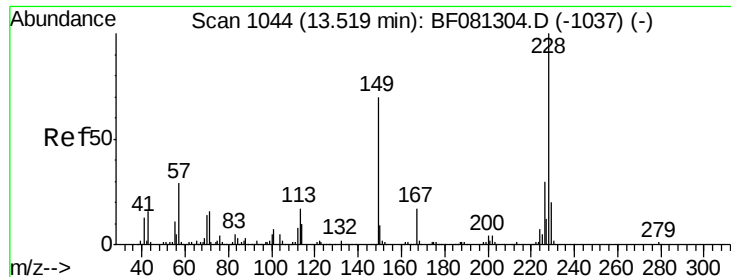


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

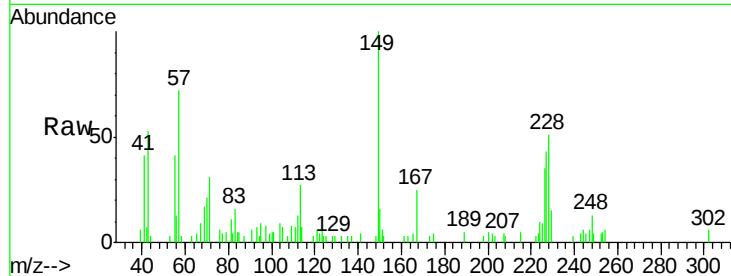




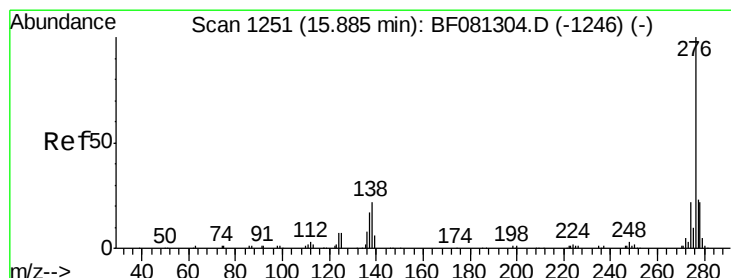
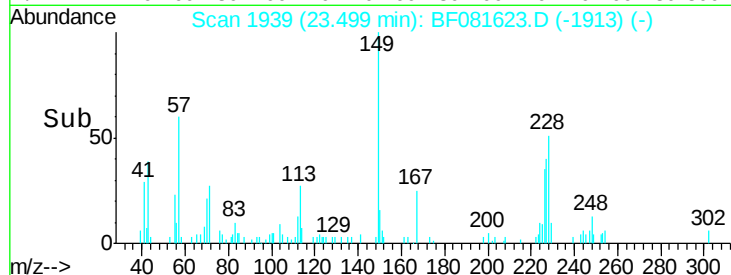
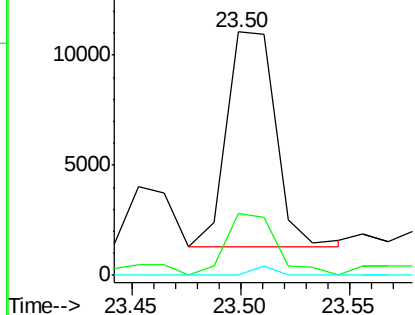
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.67 ng
 RT: 23.50 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: BF081623.D
 Acq: 15 Sep 2015 2:45

Instrument :
 BNA_F
 ClientSampled :
 GP-15(0-5)

Tgt Ion:149 Resp: 15149
 Ion Ratio Lower Upper
 149 100
 167 25.2 24.2 36.2
 279 0.0 3.8 5.6#

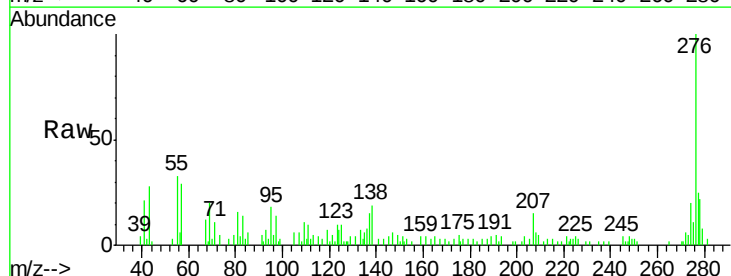


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

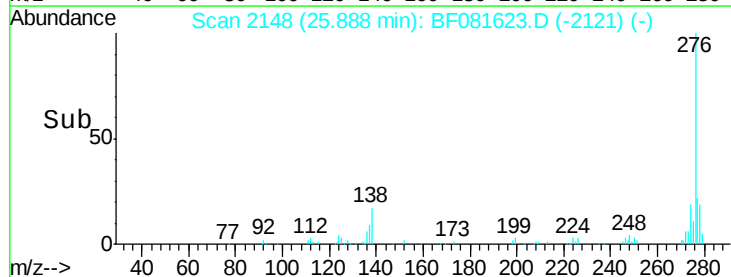
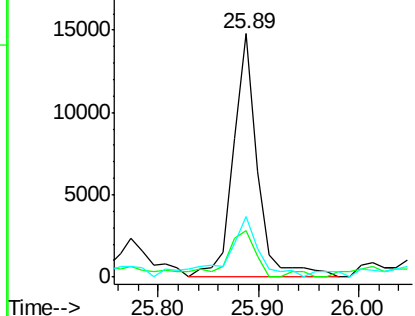


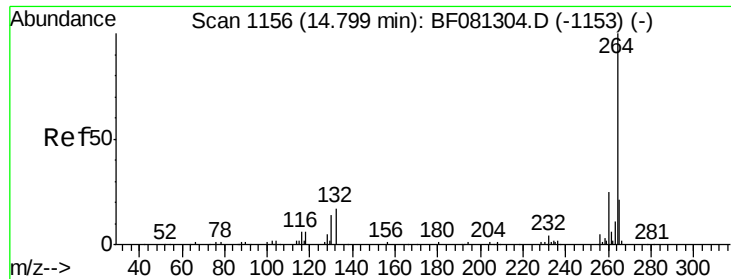
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.10 ng
 RT: 25.89 min Scan# 2148
 Delta R.T. 0.01 min
 Lab File: BF081623.D
 Acq: 15 Sep 2015 2:45

Tgt Ion:276 Resp: 24782
 Ion Ratio Lower Upper
 276 100
 138 21.9 25.7 38.5#
 277 33.5 15.6 23.4#



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



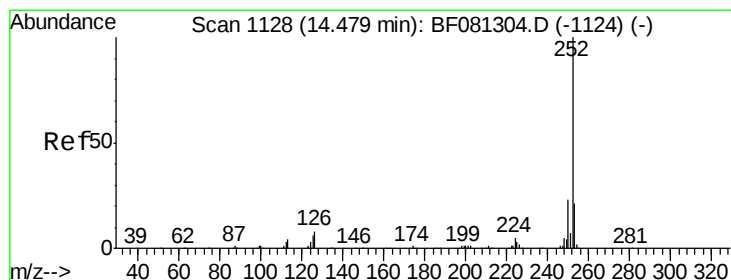
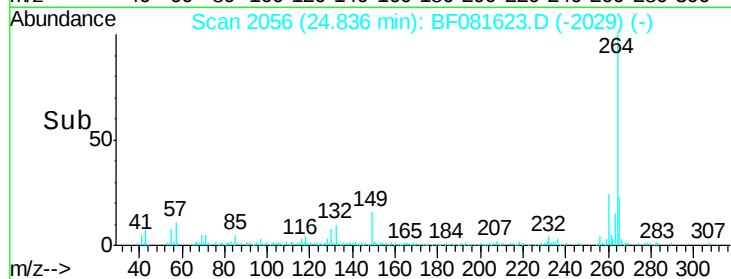
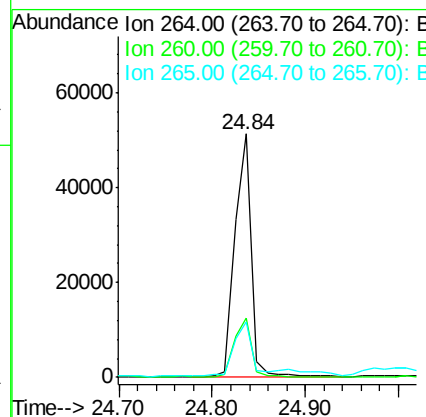
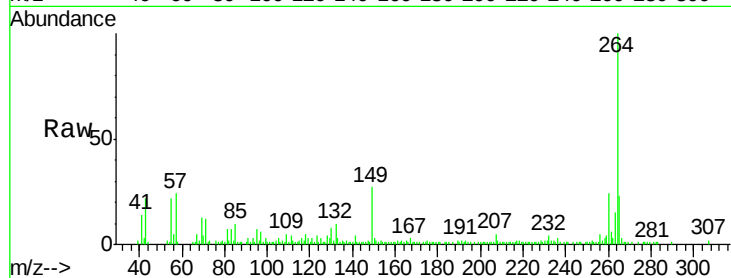


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.84 min Scan# 2056
Delta R.T. 0.01 min
Lab File: BF081623.D
Acq: 15 Sep 2015 2:45

Instrument :
BNA_F
ClientSampleId :
GP-15(0-5)

Tgt Ion:264 Resp: 63971

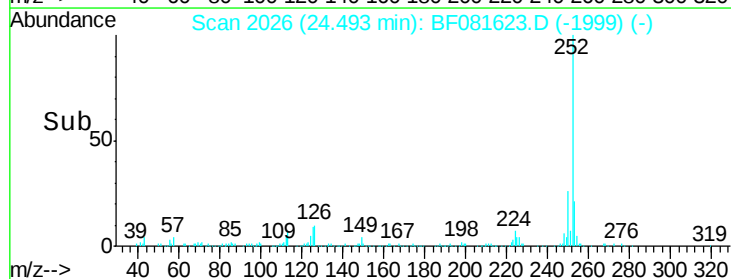
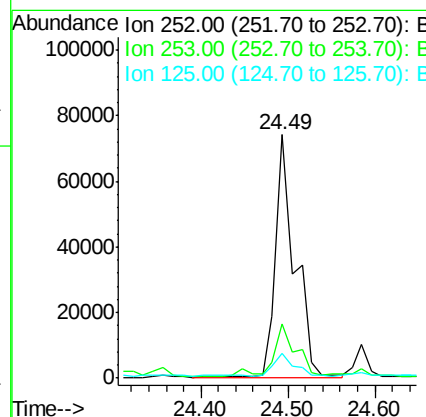
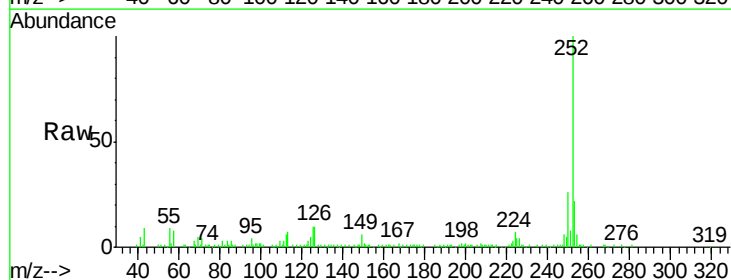
Ion	Ratio	Lower	Upper
264	100		
260	24.4	16.7	25.1
265	22.7	17.2	25.8

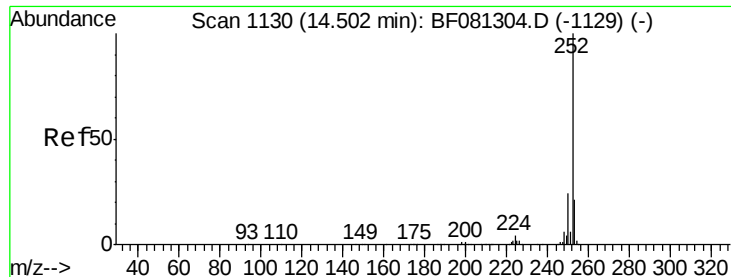


#87
Benzo(b)fluoranthene
Concen: 25.61 ng
RT: 24.49 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF081623.D
Acq: 15 Sep 2015 2:45

Tgt Ion:252 Resp: 116964

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	10.0	17.1	25.7#

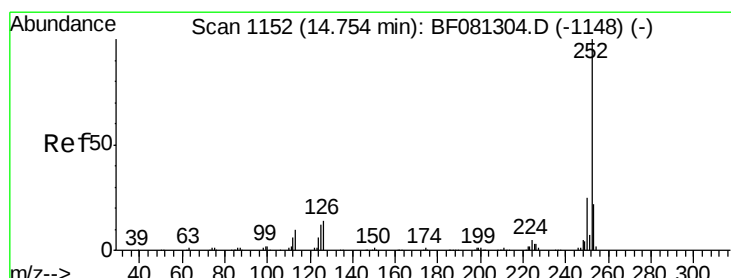
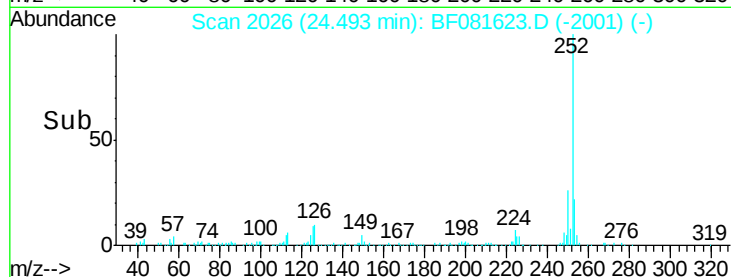
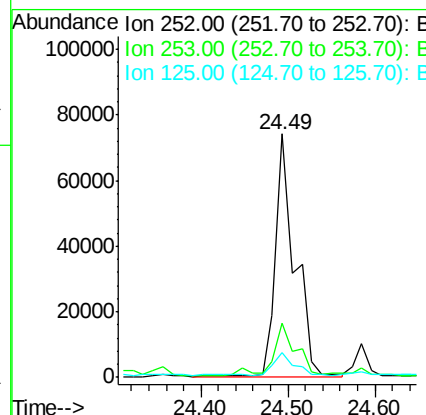




#88
Benzo(k)fluoranthene
Concen: 30.86 ng
RT: 24.49 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF081623.D
Acq: 15 Sep 2015 2:45

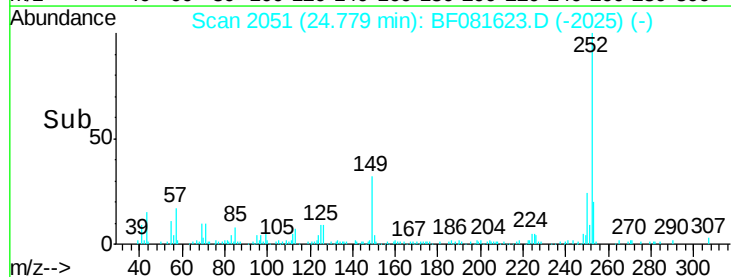
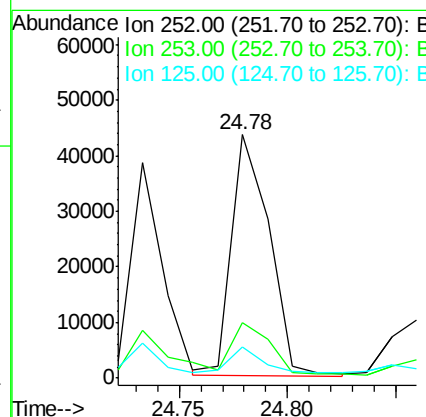
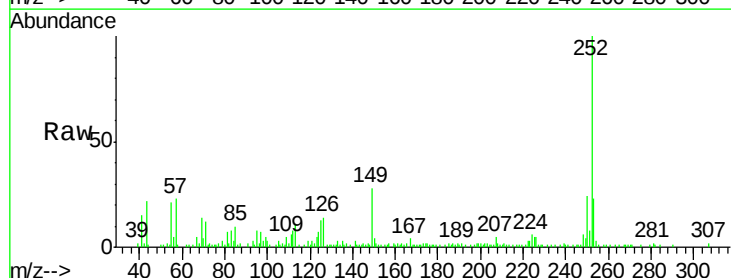
Instrument :
BNA_F
ClientSampleId :
GP-15(0-5)

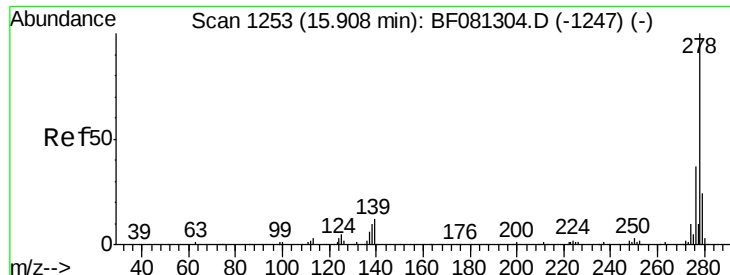
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.4
125	10.0	16.0	24.0#



#89
Benzo(a)pyrene
Concen: 13.44 ng
RT: 24.78 min Scan# 2051
Delta R.T. 0.00 min
Lab File: BF081623.D
Acq: 15 Sep 2015 2:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.2	25.8
125	13.0	18.0	27.0#





#90

Dibenzo(a,h)anthracene

Concen: 2.61 ng

RT: 25.89 min Scan# 2148

Delta R.T. 0.00 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

Instrument :

BNA_F

ClientSampleId :

GP-15(0-5)

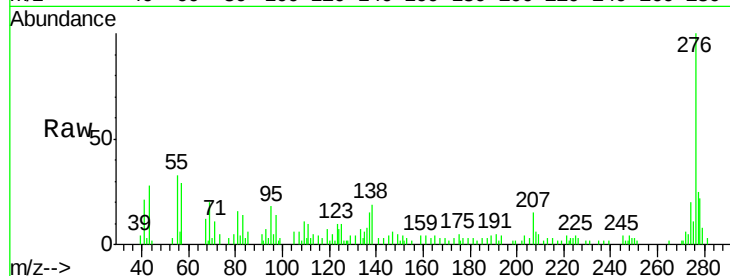
Tgt Ion:278 Resp: 7817

Ion Ratio Lower Upper

278 100

139 0.0 26.3 39.5#

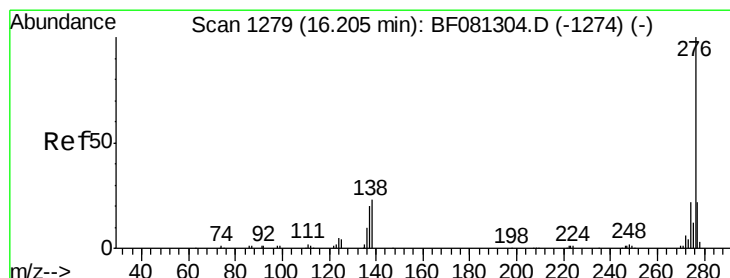
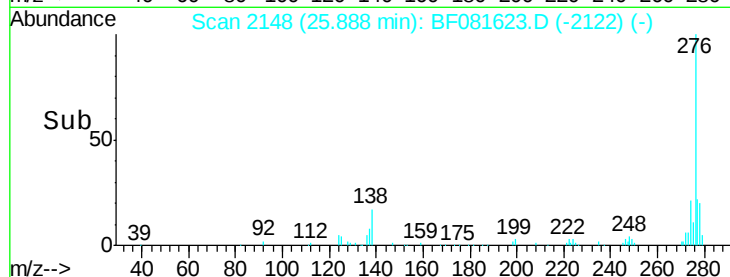
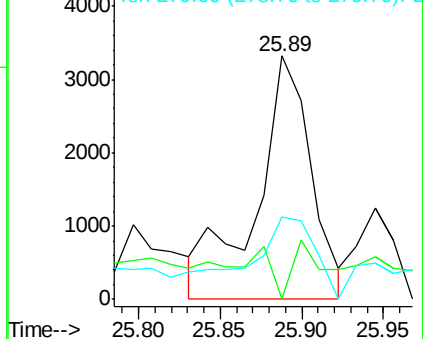
279 34.0 18.2 27.4#



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: 7.64 ng

RT: 26.20 min Scan# 2175

Delta R.T. 0.01 min

Lab File: BF081623.D

Acq: 15 Sep 2015 2:45

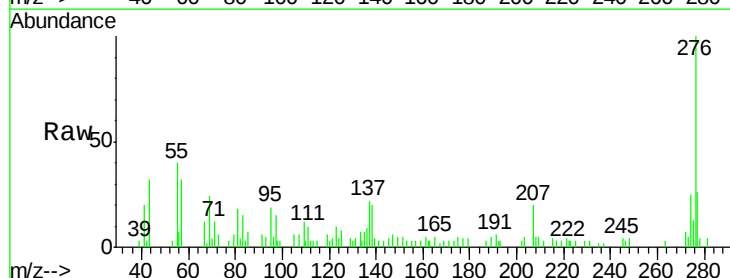
Tgt Ion:276 Resp: 21806

Ion Ratio Lower Upper

276 100

277 25.5 17.8 26.6

138 19.8 34.6 51.8#



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

