

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040616\
 Data File : BF086123.D
 Acq On : 7 Apr 2016 3:13
 Operator : UM/SJ
 Sample : H2191-02 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 07 09:12:31 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

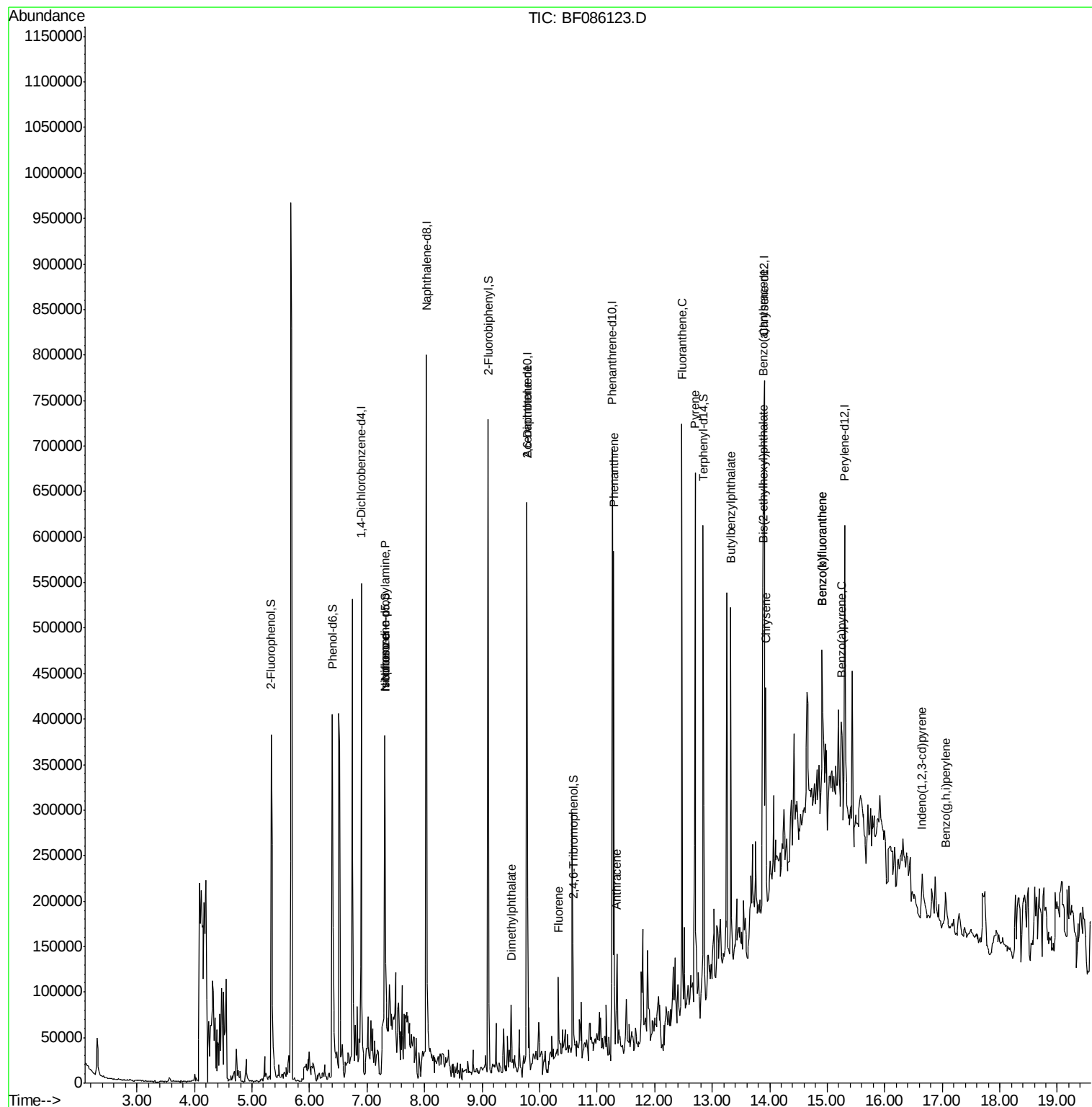
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	80749	20.00	ng	0.13
21) Naphthalene-d8	8.03	136	330034	20.00	ng	-0.03
38) Acenaphthene-d10	9.78	164	118310	20.00	ng	-0.03
63) Phenanthrene-d10	11.26	188	220978	20.00	ng	-0.03
75) Chrysene-d12	13.91	240	204056	20.00	ng	-0.02
86) Perylene-d12	15.30	264	143318	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	176295	37.32	ng	-0.03
7) Phenol-d6	6.40	99	207260	34.54	ng	-0.02
23) Nitrobenzene-d5	7.31	82	121307	21.68	ng	-0.03
41) 2,4,6-Tribromophenol	10.58	330	27631	24.88	ng	-0.02
44) 2-Fluorobiphenyl	9.10	172	200166	28.13	ng	-0.03
78) Terphenyl-d14	12.84	244	158399	18.25	ng	-0.03
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.31	70	16614	4.47	ng	# 82
25) Isophorone	7.31	82	111687	10.11	ng	# 69
49) Dimethylphthalate	9.50	163	19445	2.22	ng	99
50) 2,6-Dinitrotoluene	9.78	165	16011	8.63	ng	# 20
57) Fluorene	10.33	166	23240	2.92	ng	98
70) Phenanthrene	11.29	178	189525	15.72	ng	99
71) Anthracene	11.34	178	43101	3.41	ng	99
74) Fluoranthene	12.48	202	239611	19.11	ng	93
77) Pyrene	12.70	202	221388	15.40	ng	99
79) Butylbenzylphthalate	13.32	149	84186	13.00	ng	# 80
80) Benzo(a)anthracene	13.89	228	115257	9.58	ng	98
82) Chrysene	13.93	228	72132	6.23	ng	97
83) Bis(2-ethylhexyl)phthalate	13.88	149	78549	9.14	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.65	276	28732	3.06	ng	93
87) Benzo(b)fluoranthene	14.91	252	114640	12.72	ng	# 96
88) Benzo(k)fluoranthene	14.91	252	114640	14.36	ng	# 93
89) Benzo(a)pyrene	15.24	252	57139	7.15	ng	# 89
91) Benzo(g,h,i)perylene	17.06	276	29336	4.72	ng	96

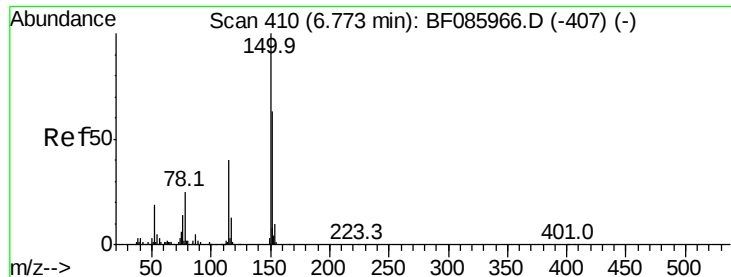
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. 0.13 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Instrument :

BNA_F

ClientSampleId :

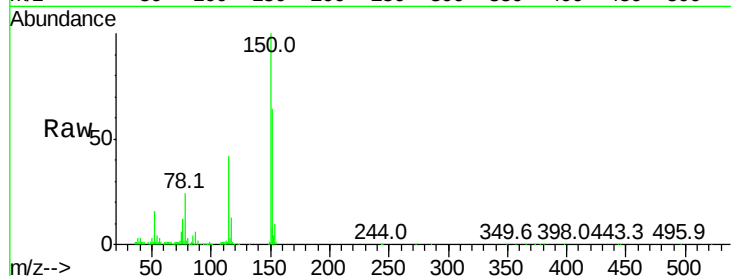
Tot Ion:152 Resp: 80749

Ion Ratio Lower Upper

152 100

150 156.5 124.2 186.2

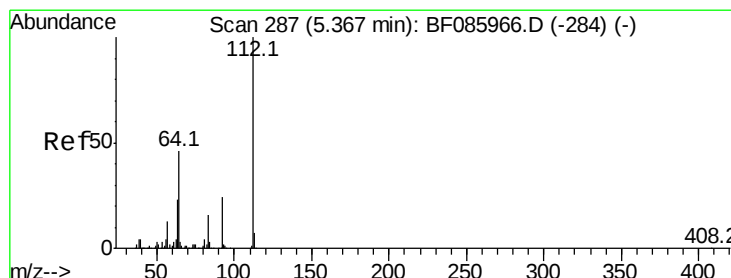
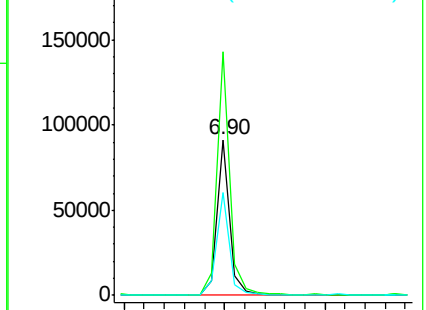
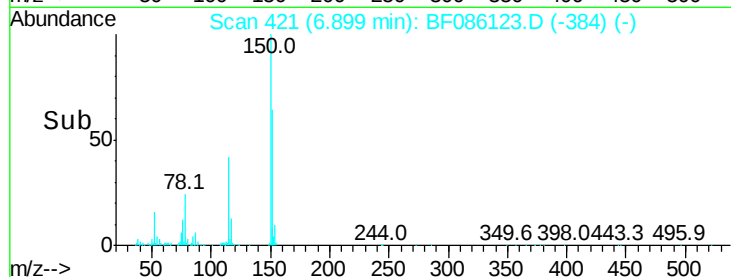
115 65.9 47.0 70.6



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: 37.32 ng

RT: 5.33 min Scan# 284

Delta R.T. -0.03 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

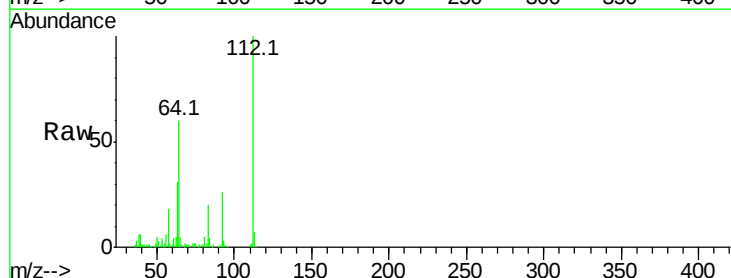
Tgt Ion:112 Resp: 176295

Ion Ratio Lower Upper

112 100

64 60.2 39.9 59.9#

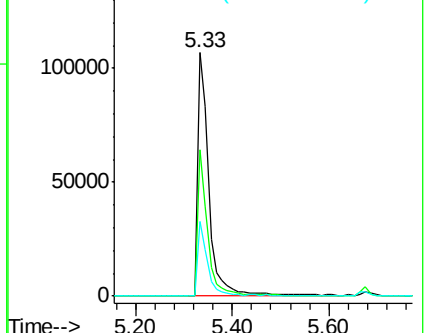
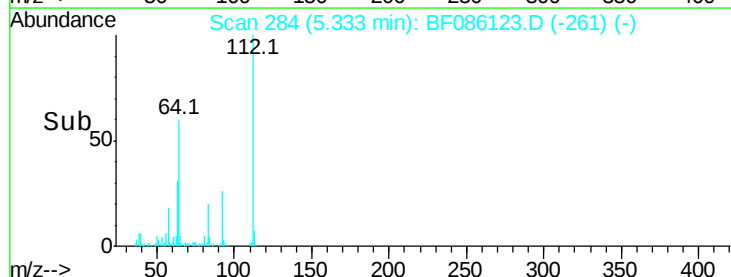
63 30.7 20.2 30.2#



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: 34.54 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.02 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Instrument :

BNA_F

ClientSampleId :

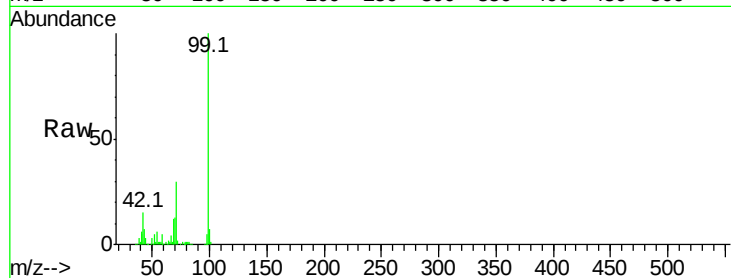
Tot Ion: 99 Resp: 207260

Ion Ratio Lower Upper

99 100

42 14.5 11.1 16.7

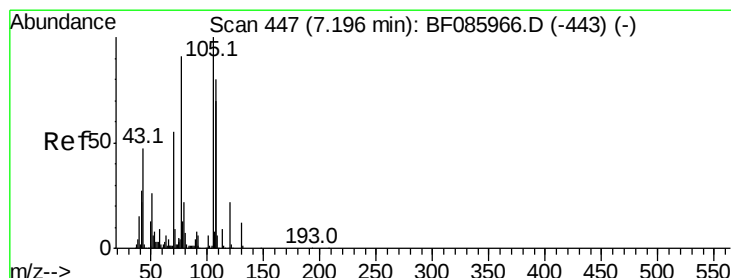
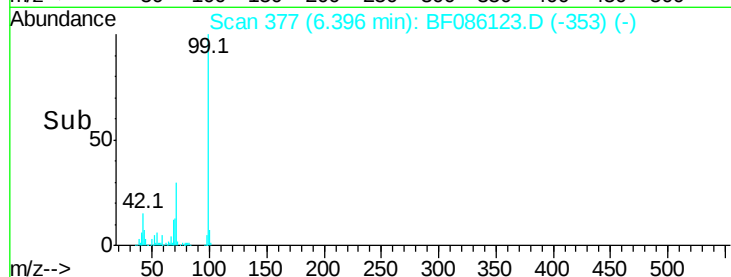
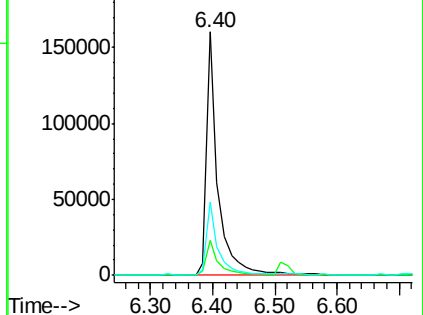
71 30.1 24.9 37.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 4.47 ng

RT: 7.31 min Scan# 457

Delta R.T. 0.11 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Tgt Ion: 70 Resp: 16614

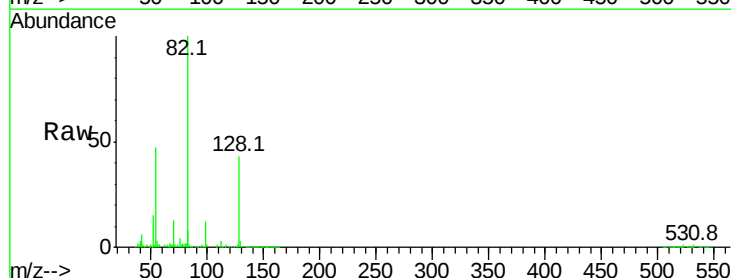
Ion Ratio Lower Upper

70 100

42 44.4 37.1 55.7

101 0.0 8.6 12.8#

130 3.2 19.6 29.4#

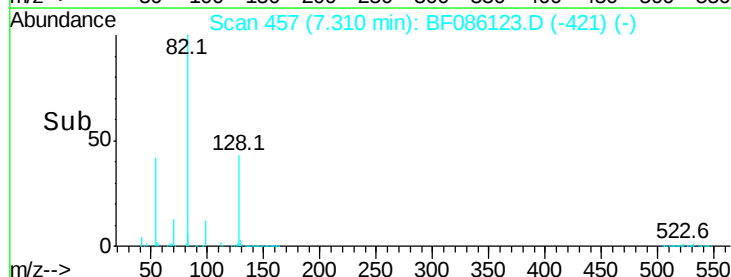
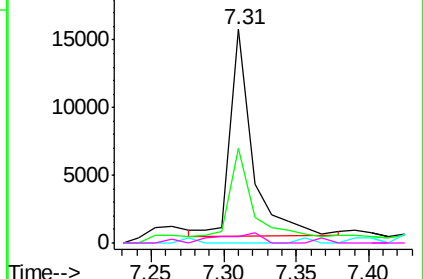


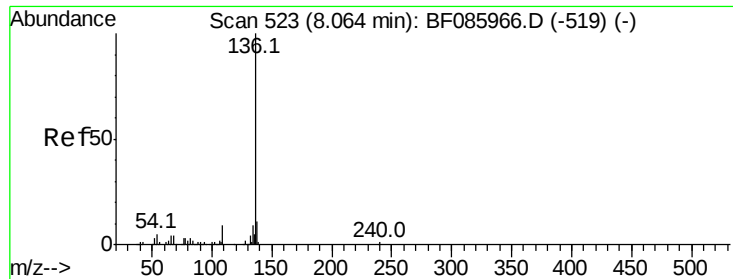
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.03 min Scan# 520

Delta R.T. -0.03 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 330034

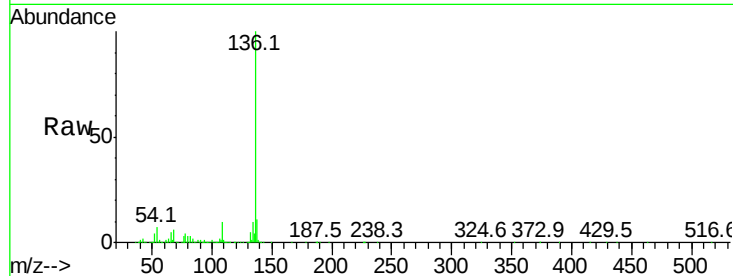
Ion Ratio Lower Upper

136 100

137 11.0 9.1 13.7

54 6.7 7.4 11.0#

68 5.7 5.8 8.8#

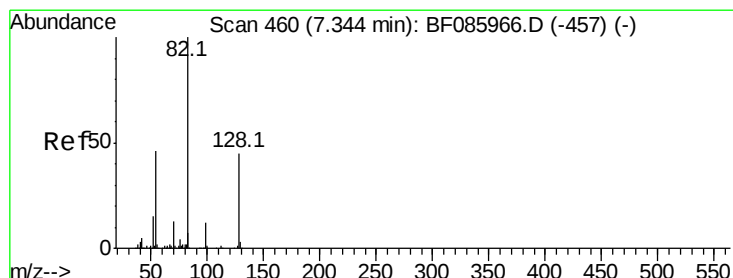
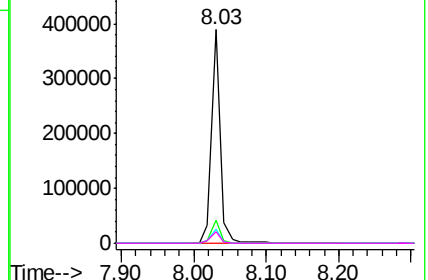
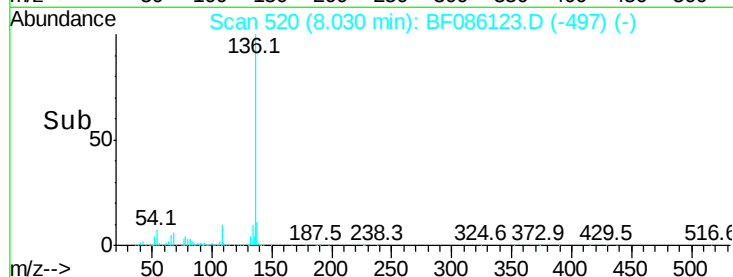


Abundance Ion 136.00 (135.70 to 136.70): E

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: 21.68 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.03 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

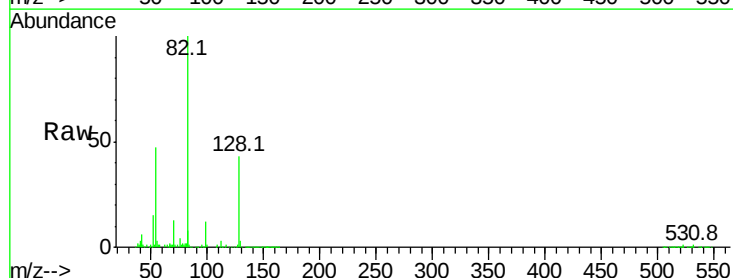
Tgt Ion: 82 Resp: 121307

Ion Ratio Lower Upper

82 100

128 43.0 41.8 62.8

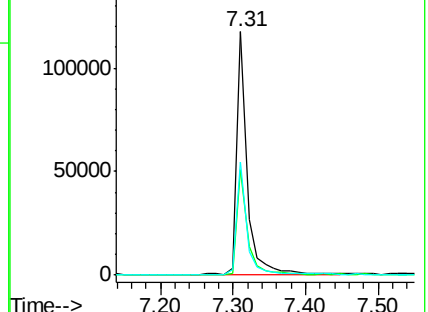
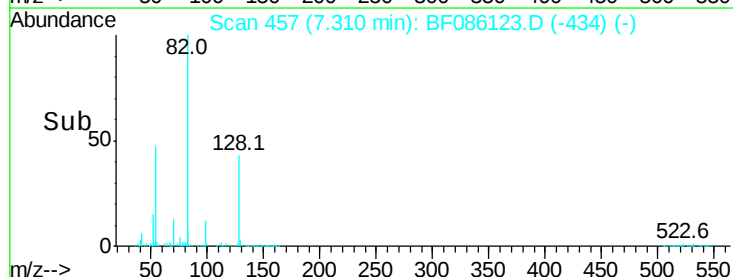
54 46.5 33.4 50.0

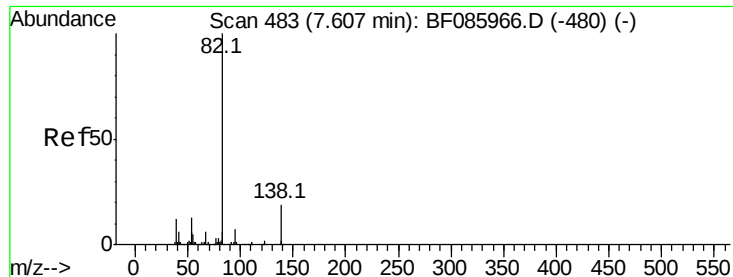


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 10.11 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.30 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Instrument :

BNA_F

ClientSampleId :

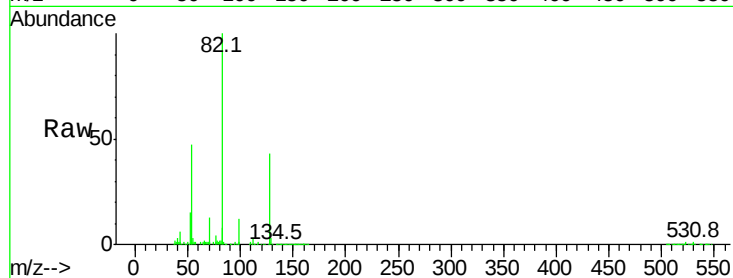
Tot Ion: 82 Resp: 111687

Ion Ratio Lower Upper

82 100

95 0.6 5.4 8.2#

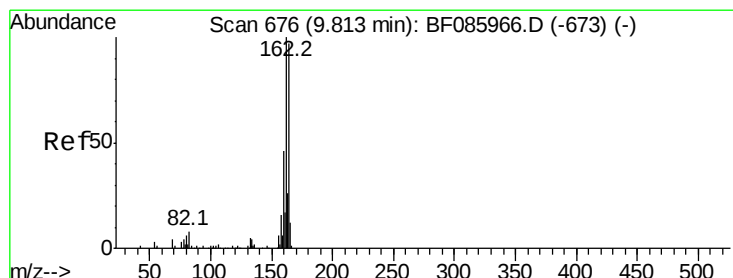
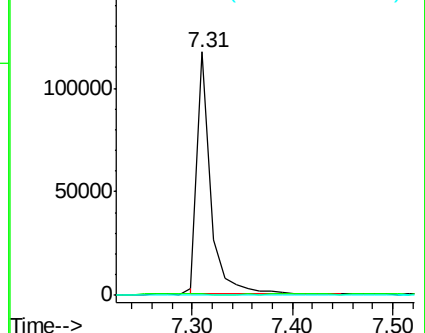
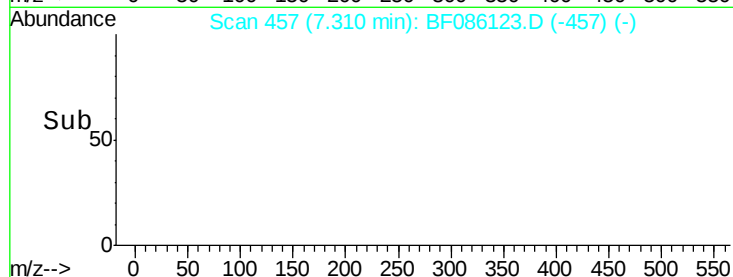
138 0.3 12.9 19.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.03 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

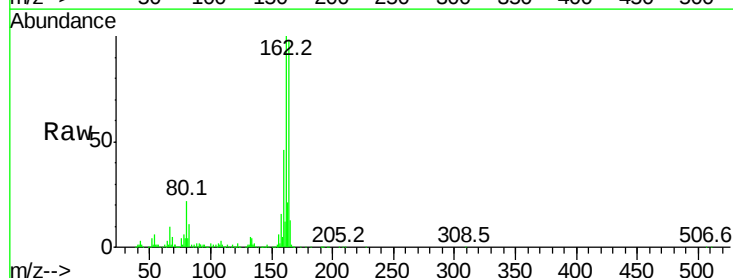
Tgt Ion: 164 Resp: 118310

Ion Ratio Lower Upper

164 100

162 101.5 82.1 123.1

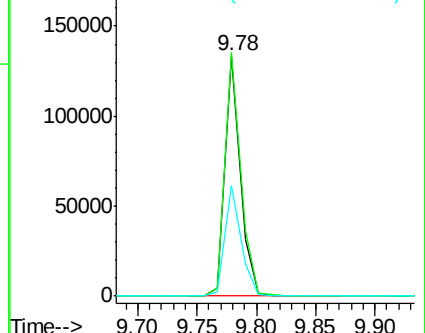
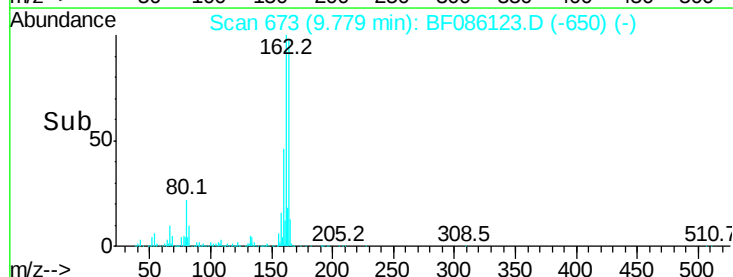
160 46.3 37.4 56.2

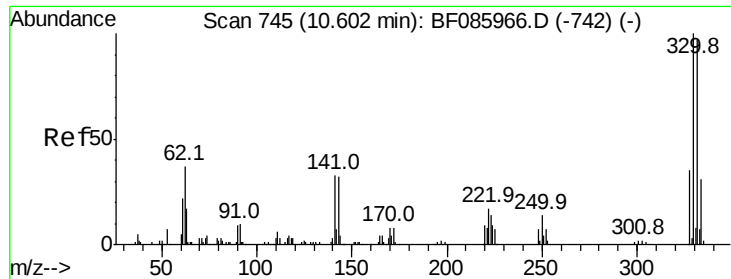


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

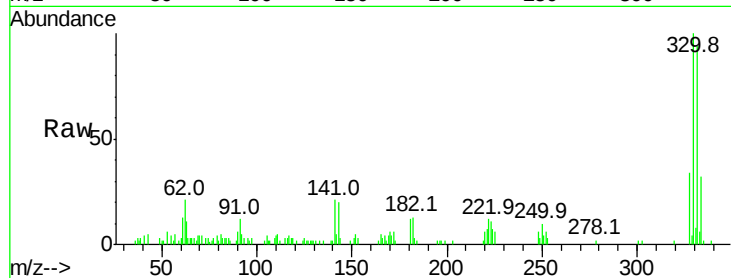




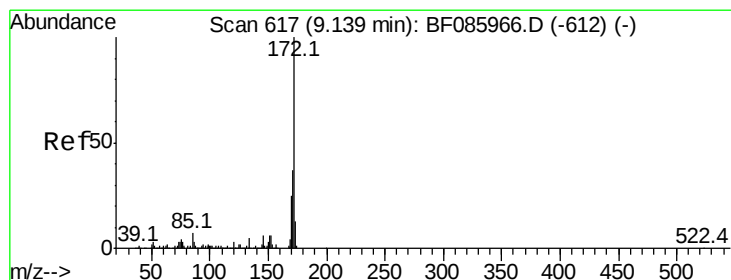
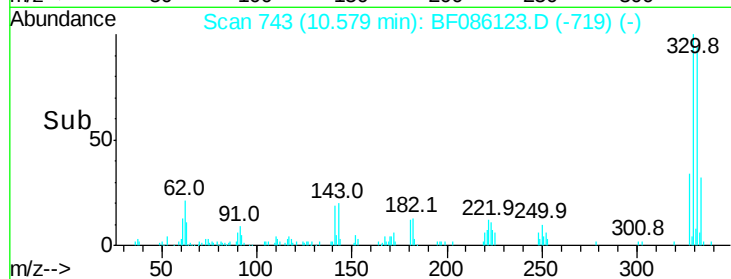
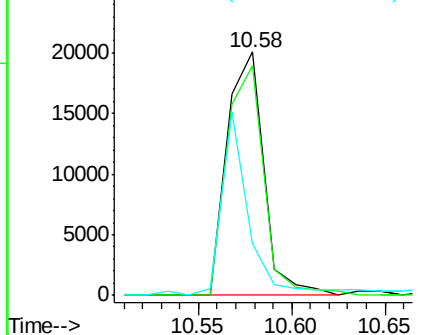
#41
 2,4,6-Tribromophenol
 Concen: 24.88 ng
 RT: 10.58 min Scan# 743
 Delta R.T. -0.02 min
 Lab File: BF086123.D
 Acq: 7 Apr 2016 3:13

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 27631
 Ion Ratio Lower Upper
 330 100
 332 95.2 78.2 117.2
 141 59.2 31.5 47.3#

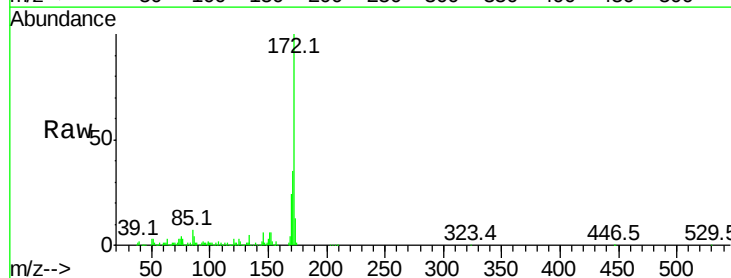


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

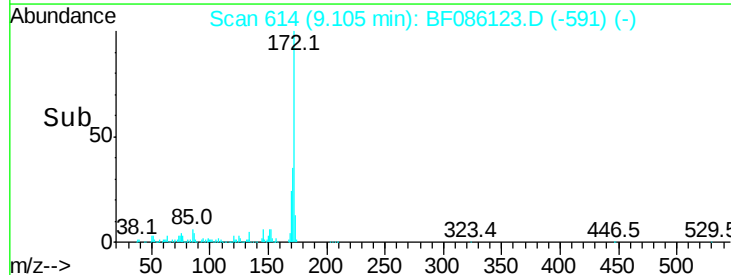
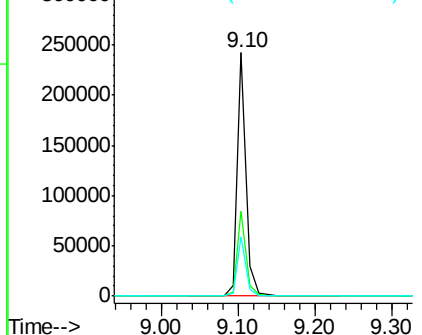


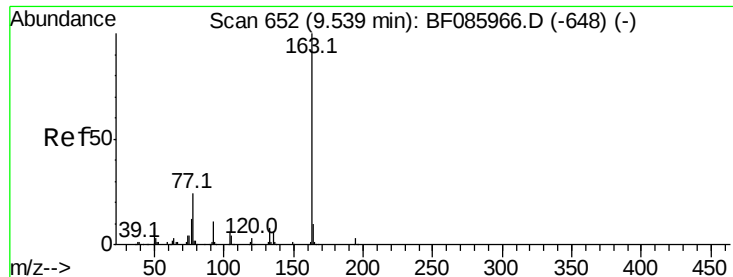
#44
 2-Fluorobiphenyl
 Concen: 28.13 ng
 RT: 9.10 min Scan# 614
 Delta R.T. -0.03 min
 Lab File: BF086123.D
 Acq: 7 Apr 2016 3:13

Tgt Ion:172 Resp: 200166
 Ion Ratio Lower Upper
 172 100
 171 34.7 29.4 44.2
 170 24.1 19.8 29.6



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

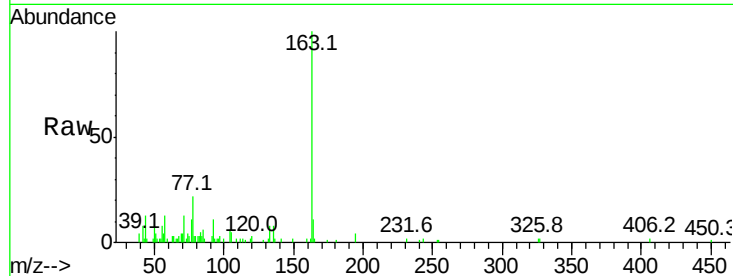




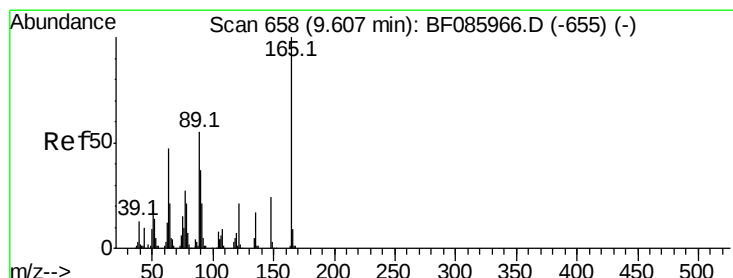
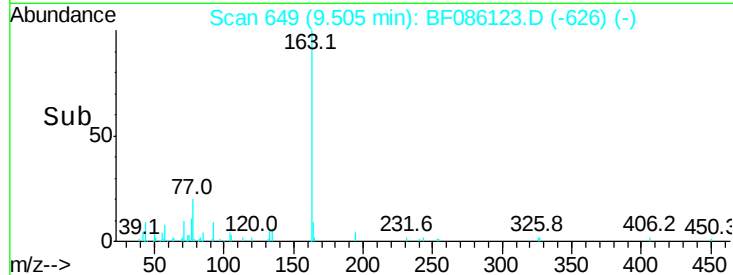
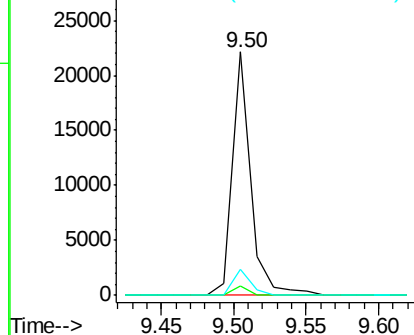
#49
Dimethylphthalate
Concen: 2.22 ng
RT: 9.50 min Scan# 649
Delta R.T. -0.03 min
Lab File: BF086123.D
Acq: 7 Apr 2016 3:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.9	4.3
164	10.6	8.3	12.5

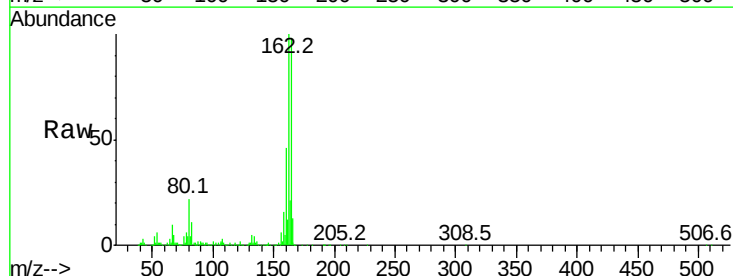


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

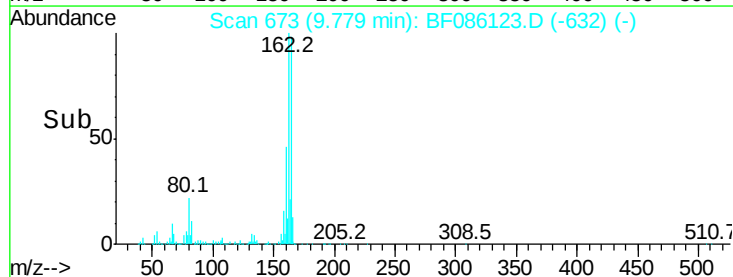
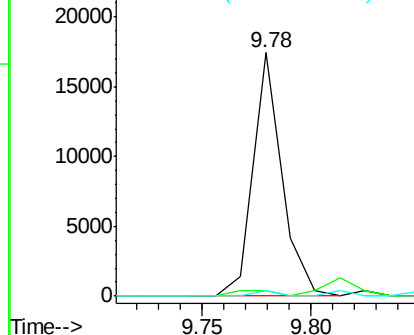


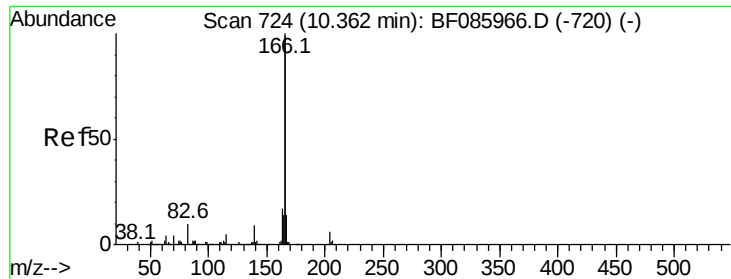
#50
2,6-Dinitrotoluene
Concen: 8.63 ng
RT: 9.78 min Scan# 673
Delta R.T. 0.17 min
Lab File: BF086123.D
Acq: 7 Apr 2016 3:13

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.2	51.8	77.8#
89	2.3	53.7	80.5#



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

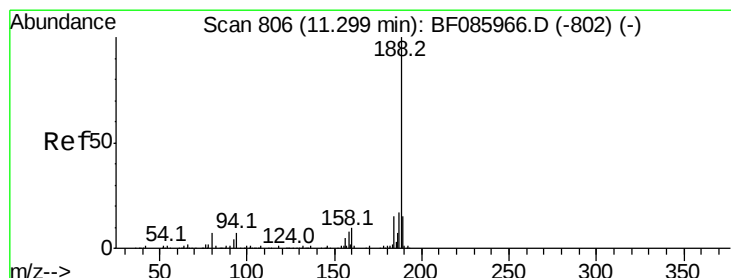
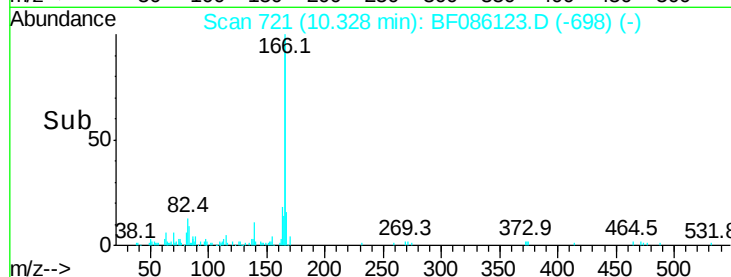
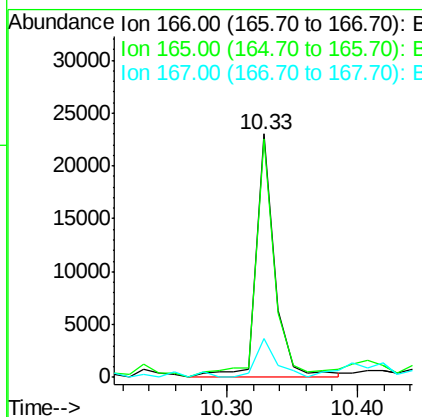
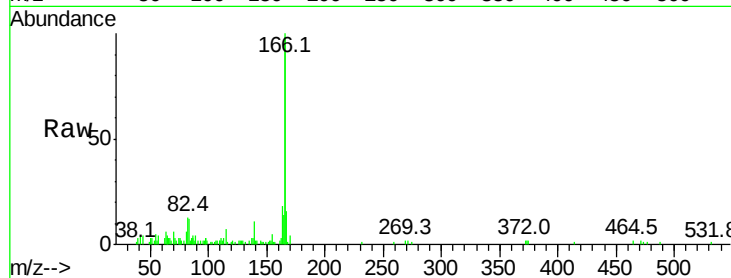




#57
Fluorene
 Concen: 2.92 ng
 RT: 10.33 min Scan# 721
 Delta R.T. -0.03 min
 Lab File: BF086123.D
 Acq: 7 Apr 2016 3:13

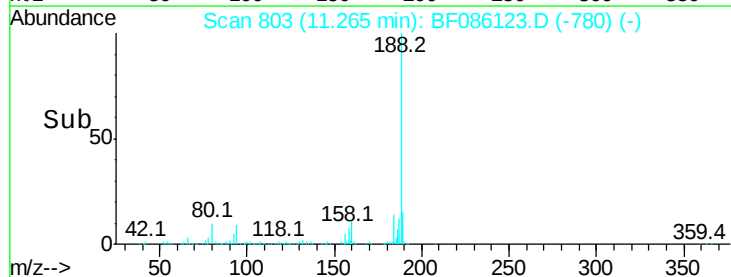
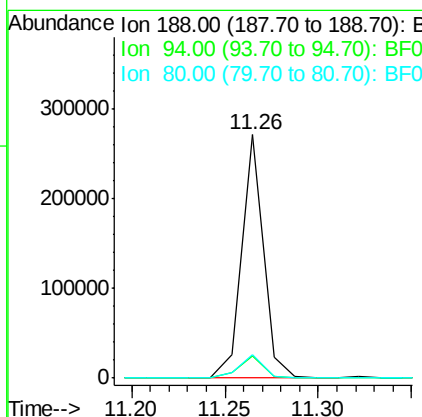
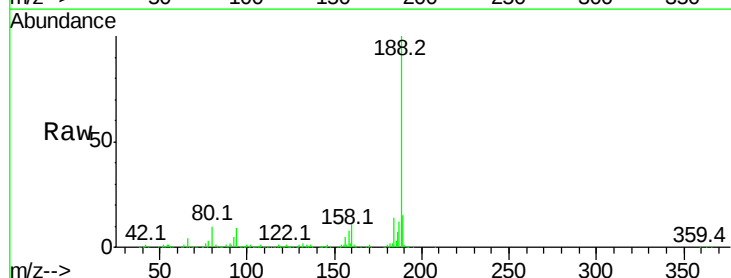
Instrument :
 BNA_F
 ClientSampleId :

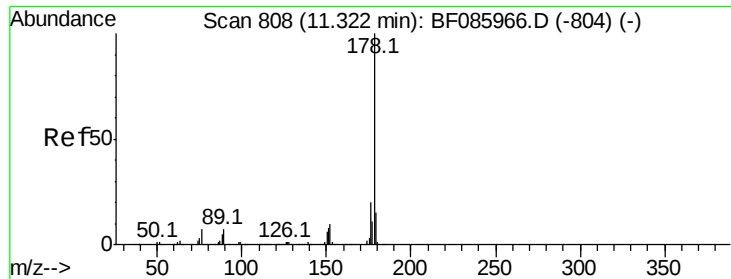
Tot Ion:166 Resp: 23240
 Ion Ratio Lower Upper
 166 100
 165 98.2 79.4 119.0
 167 15.7 11.0 16.4



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.26 min Scan# 803
 Delta R.T. -0.03 min
 Lab File: BF086123.D
 Acq: 7 Apr 2016 3:13

Tgt Ion:188 Resp: 220978
 Ion Ratio Lower Upper
 188 100
 94 9.1 5.4 8.0#
 80 9.8 5.5 8.3#

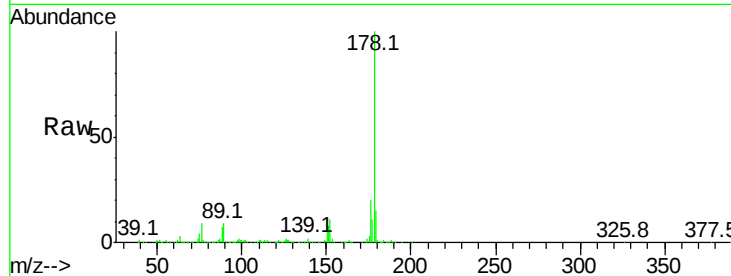




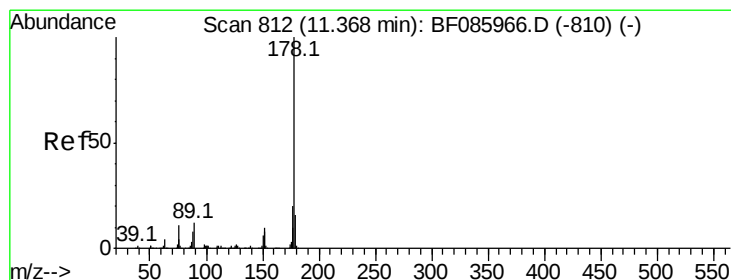
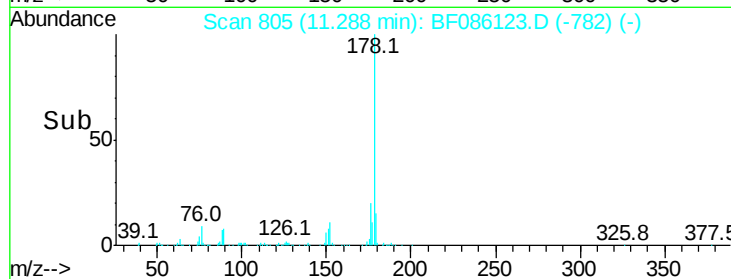
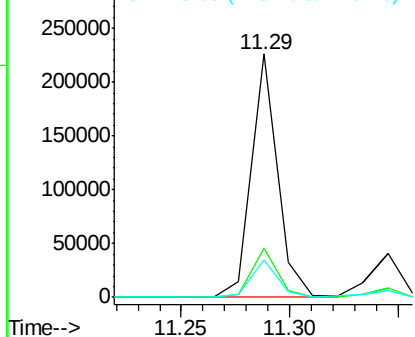
#70
Phenanthrene
Concen: 15.72 ng
RT: 11.29 min Scan# 805
Delta R.T. -0.03 min
Lab File: BF086123.D
Acq: 7 Apr 2016 3:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 189525
Ion Ratio Lower Upper
178 100
176 20.0 16.3 24.5
179 15.5 12.6 18.8

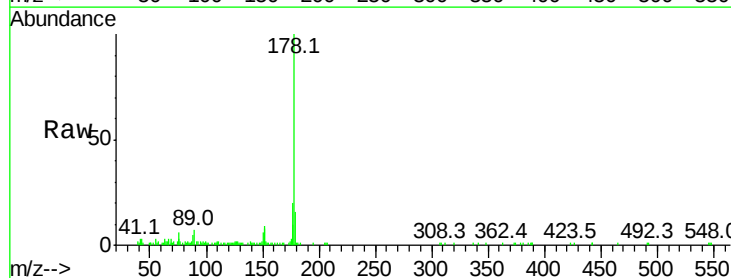


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

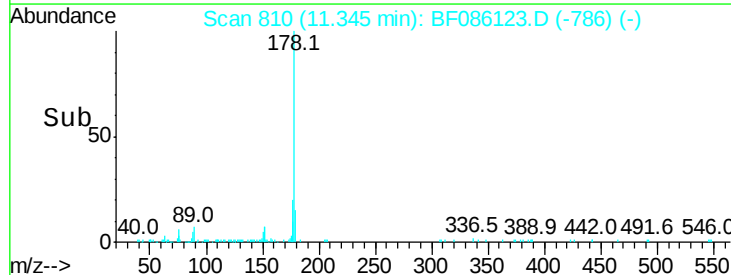
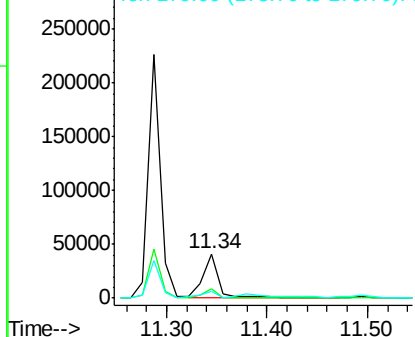


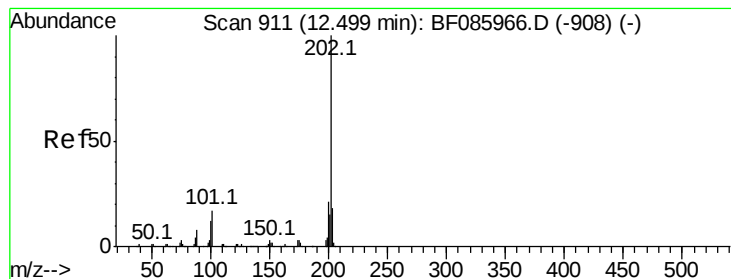
#71
Anthracene
Concen: 3.41 ng
RT: 11.34 min Scan# 810
Delta R.T. -0.02 min
Lab File: BF086123.D
Acq: 7 Apr 2016 3:13

Tgt Ion:178 Resp: 43101
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.7 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





#74

Fluoranthene

Concen: 19.11 ng

RT: 12.48 min Scan# 909

Delta R.T. -0.02 min

Lab File: BF086123.D

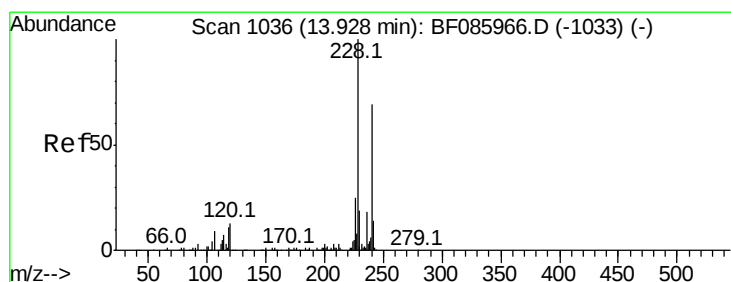
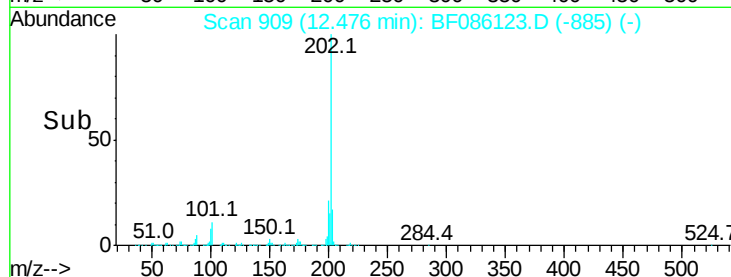
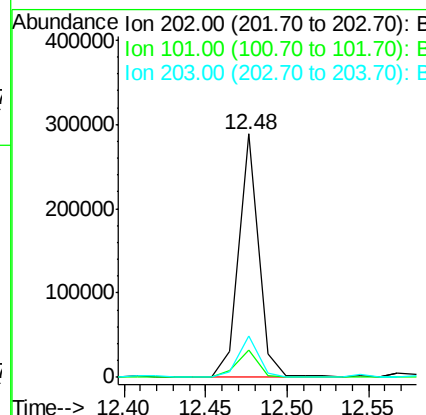
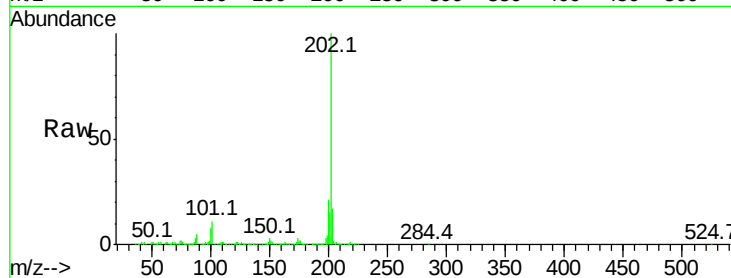
Acq: 7 Apr 2016 3:13

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	202	Resp:	239611
Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	36.6
203	17.2	0.0	38.1



#75

Chrysene-d12

Concen: 20.00 ng

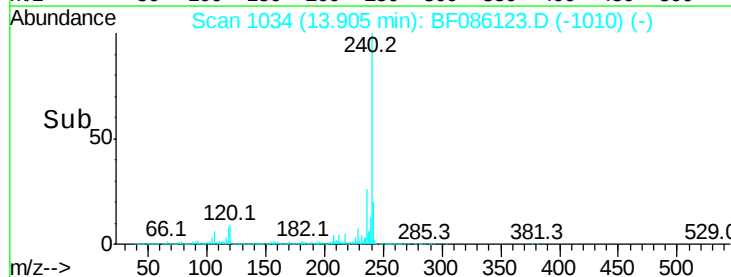
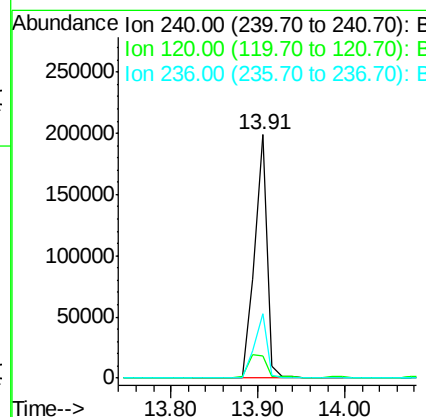
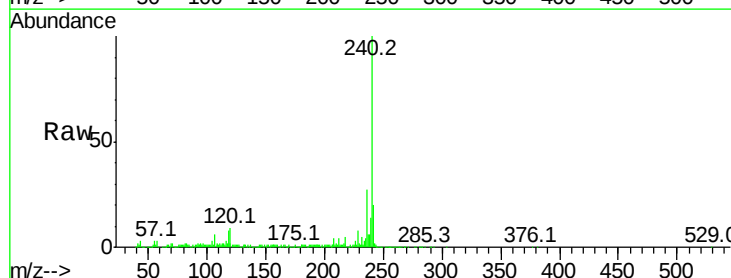
RT: 13.91 min Scan# 1034

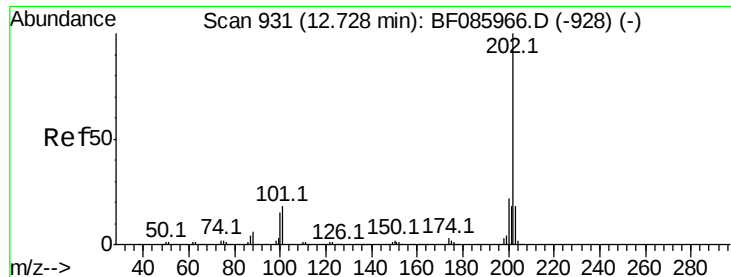
Delta R.T. -0.02 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Tgt Ion:	240	Resp:	204056
Ion	Ratio	Lower	Upper
240	100		
120	9.3	13.8	20.8#
236	26.7	20.6	30.8





#77

Pvrene

Concen: 15.40 ng

RT: 12.70 min Scan# 929

Delta R.T. -0.02 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Instrument :

BNA_F

ClientSampleId :

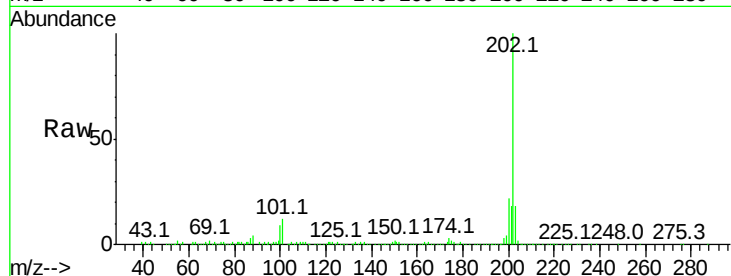
Tot Ion:202 Resp: 221388

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

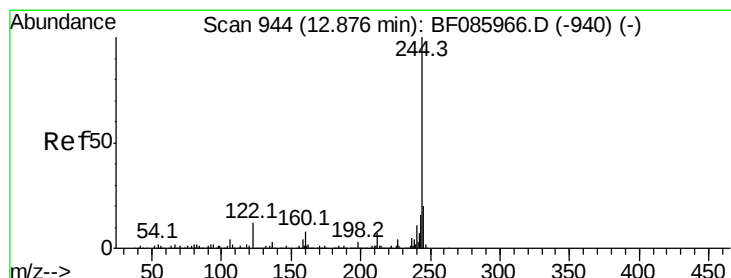
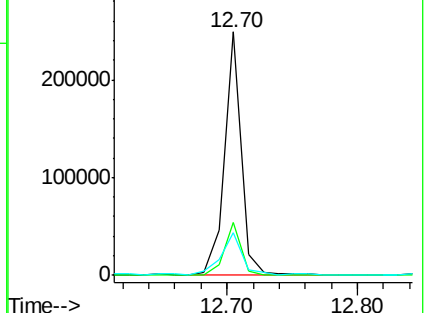
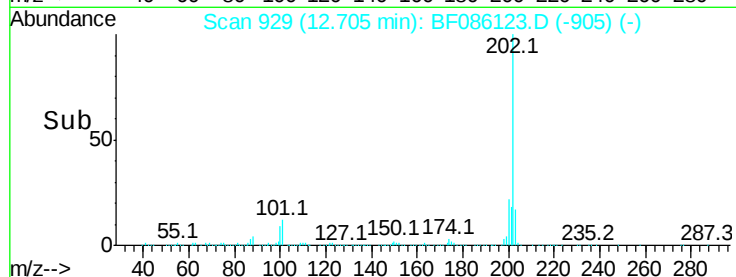
203 17.6 14.0 21.0



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: 18.25 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.03 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

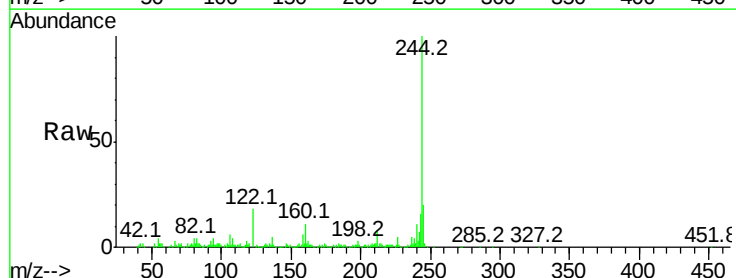
Tgt Ion:244 Resp: 158399

Ion Ratio Lower Upper

244 100

212 7.9 6.1 9.1

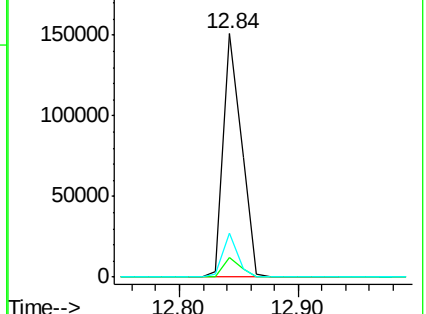
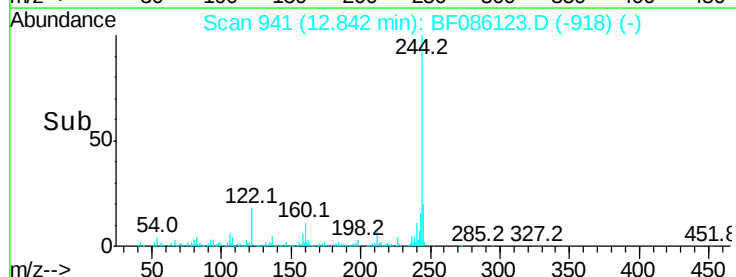
122 18.1 10.2 15.4#

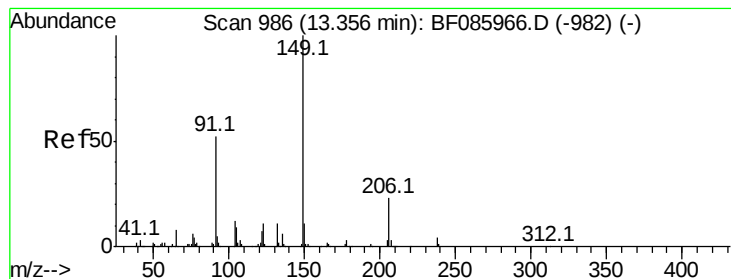


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#79

Butylbenzylphthalate

Concen: 13.00 ng

RT: 13.32 min Scan# 983

Delta R.T. -0.03 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Instrument :

BNA_F

ClientSampleId :

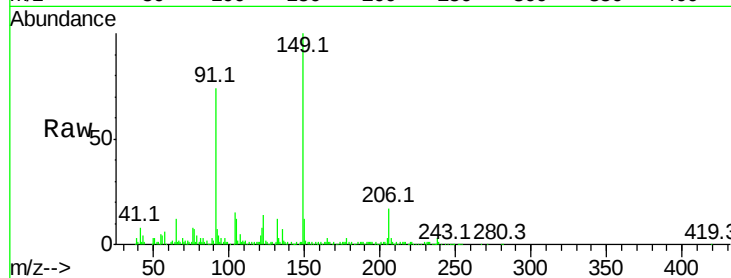
Tot Ion:149 Resp: 84186

Ion Ratio Lower Upper

149 100

91 74.1 45.8 68.8#

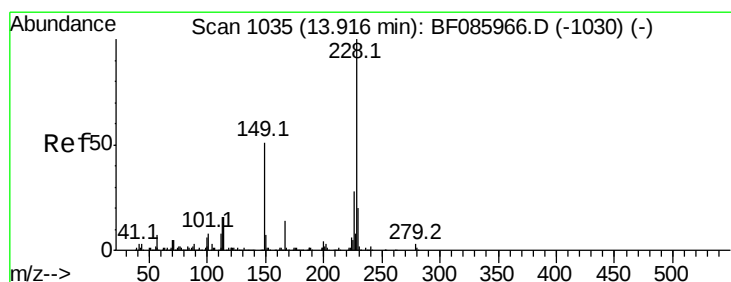
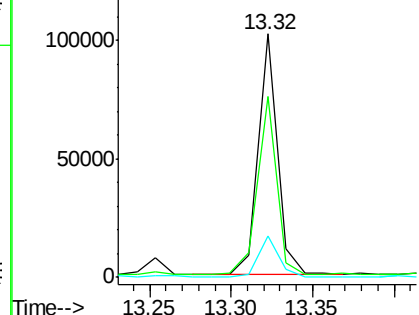
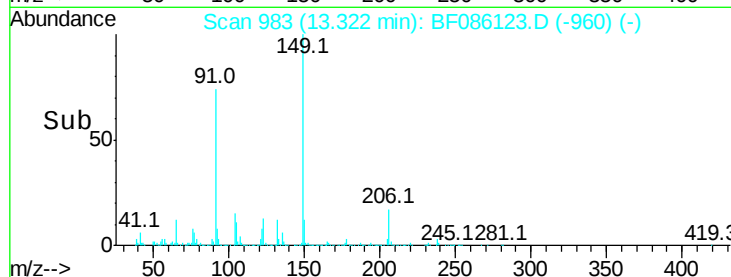
206 16.8 17.8 26.8#



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: 9.58 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.02 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

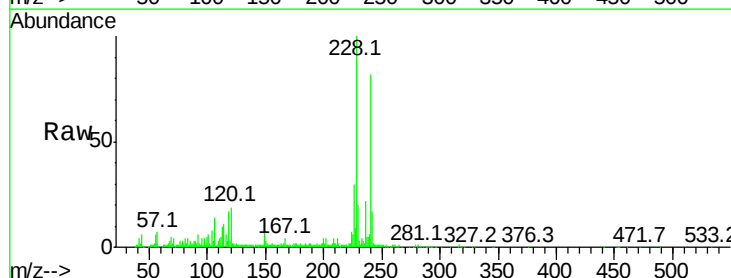
Tgt Ion:228 Resp: 115257

Ion Ratio Lower Upper

228 100

226 29.8 22.1 33.1

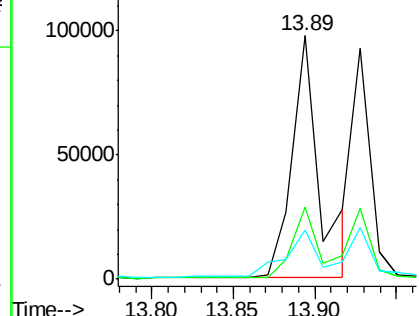
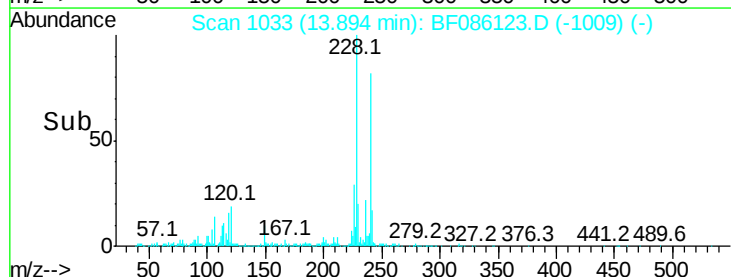
229 20.4 16.2 24.4

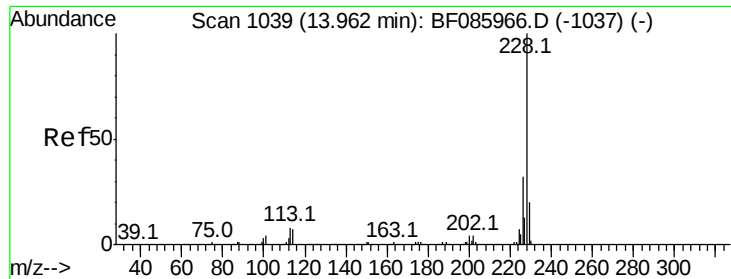


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

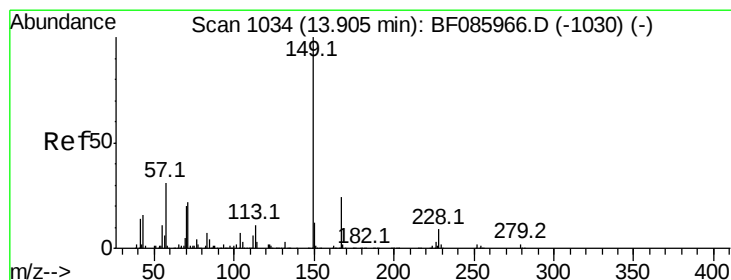
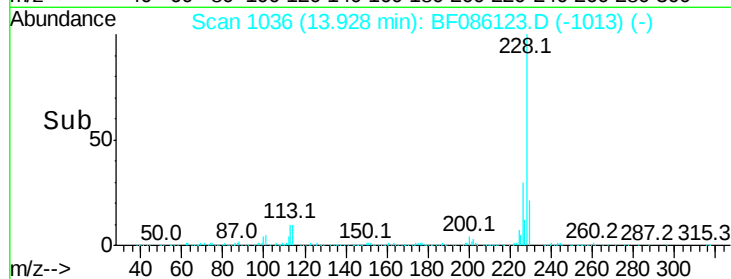
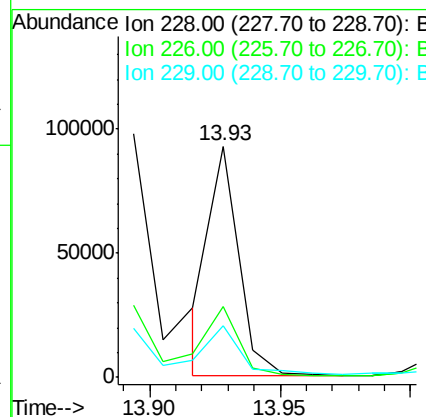
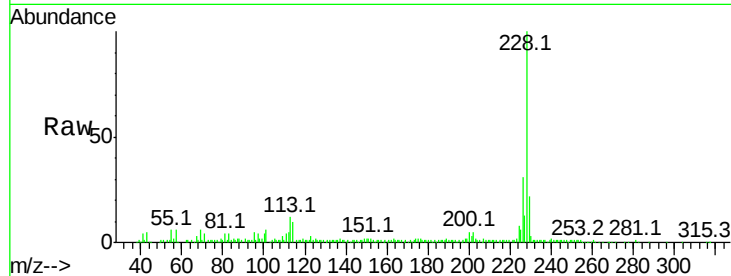




#82
 Chrysene
 Concen: 6.23 ng
 RT: 13.93 min Scan# 1036
 Delta R.T. -0.03 min
 Lab File: BF086123.D
 Acq: 7 Apr 2016 3:13

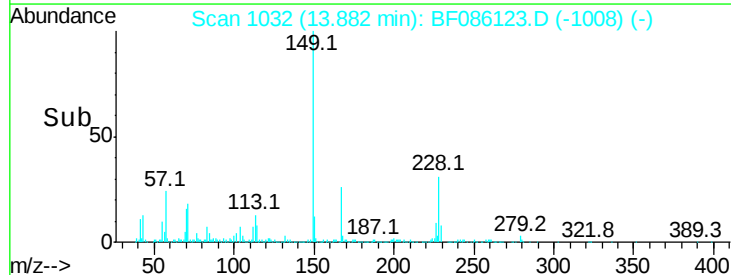
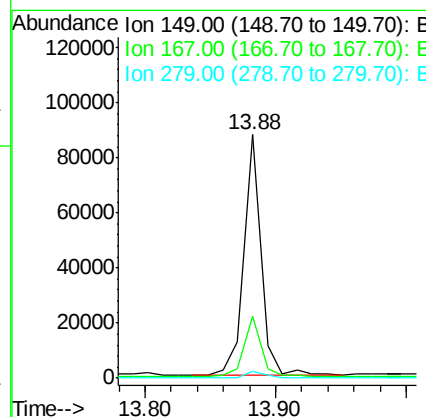
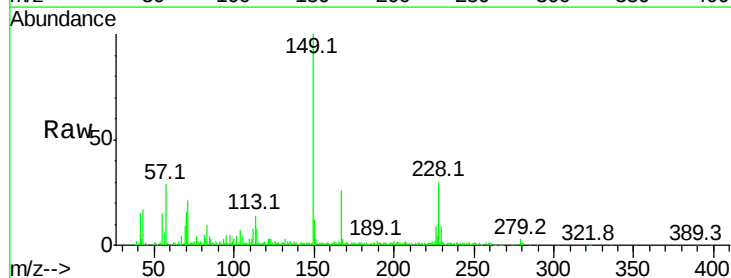
Instrument :
 BNA_F
 ClientSampleId :

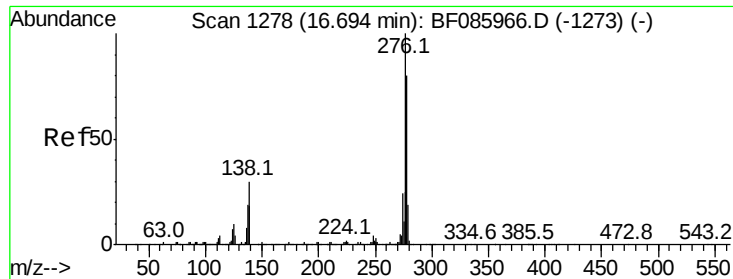
Tot Ion:228 Resp: 72132
 Ion Ratio Lower Upper
 228 100
 226 30.7 25.0 37.6
 229 22.2 15.7 23.5



#83
 Bis(2-ethylhexyl)phthalate
 Concen: 9.14 ng
 RT: 13.88 min Scan# 1032
 Delta R.T. -0.02 min
 Lab File: BF086123.D
 Acq: 7 Apr 2016 3:13

Tgt Ion:149 Resp: 78549
 Ion Ratio Lower Upper
 149 100
 167 25.6 19.4 29.2
 279 2.9 1.5 2.3#

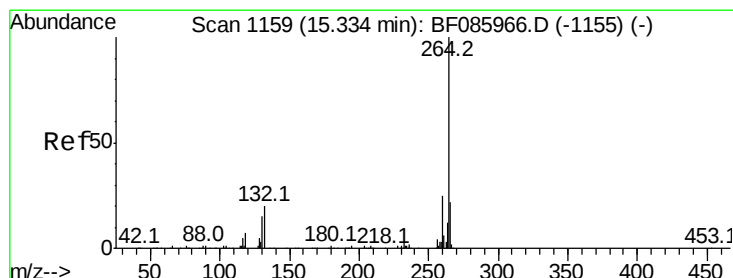
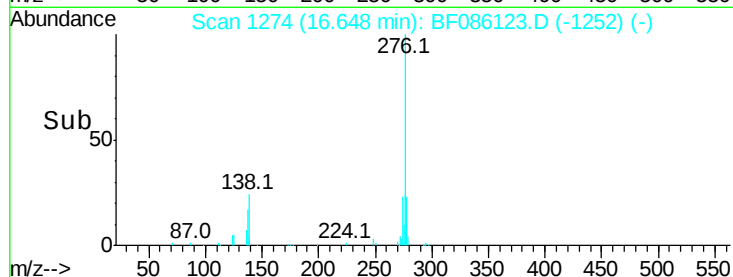
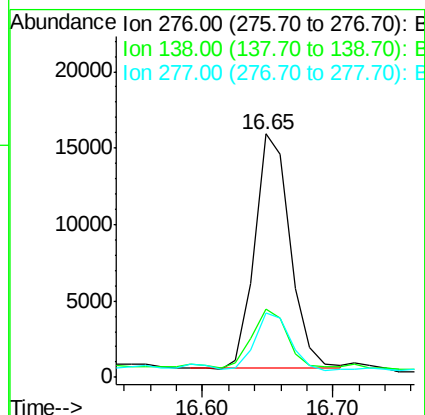
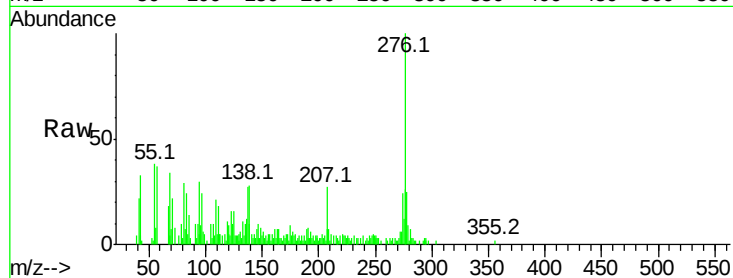




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.06 ng
 RT: 16.65 min Scan# 1274
 Delta R.T. -0.05 min
 Lab File: BF086123.D
 Acq: 7 Apr 2016 3:13

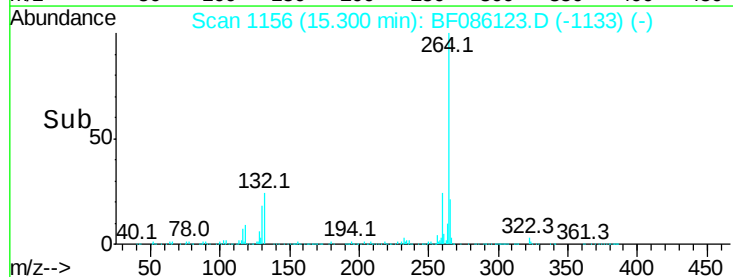
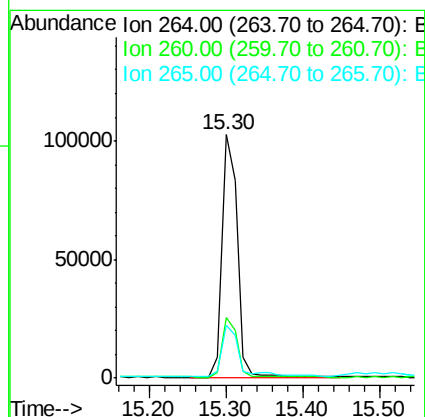
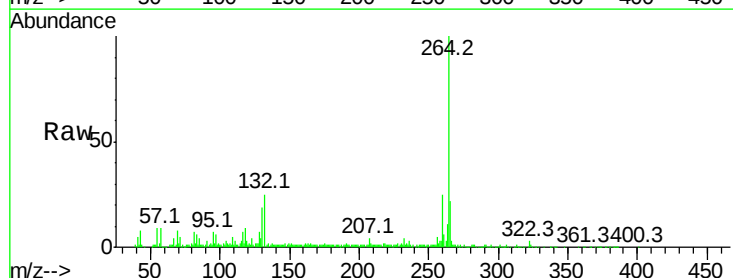
Instrument :
 BNA_F
 ClientSampleId :

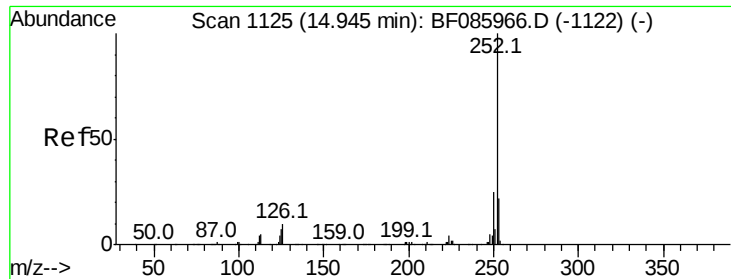
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.4	24.2	36.4
277	23.9	20.0	30.0



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.30 min Scan# 1156
 Delta R.T. -0.03 min
 Lab File: BF086123.D
 Acq: 7 Apr 2016 3:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.4	29.2
265	21.8	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 12.72 ng

RT: 14.91 min Scan# 1122

Delta R.T. -0.03 min

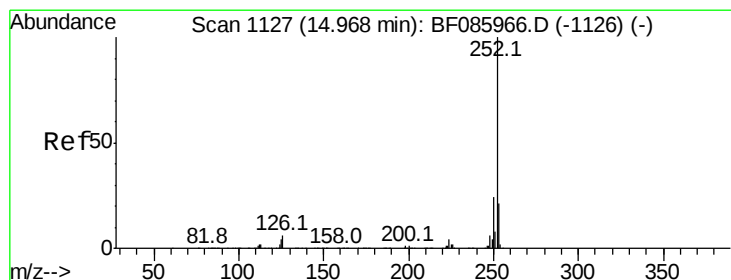
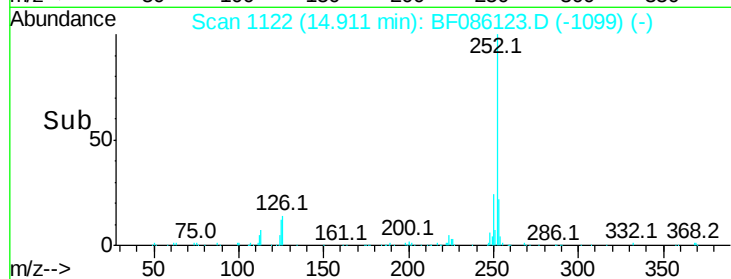
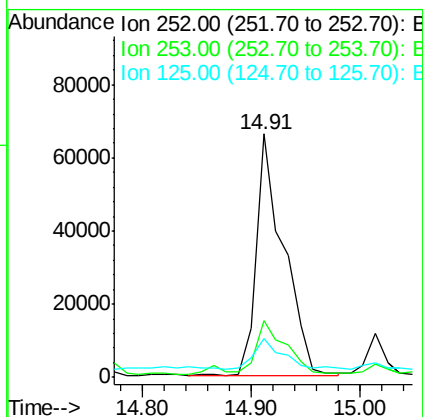
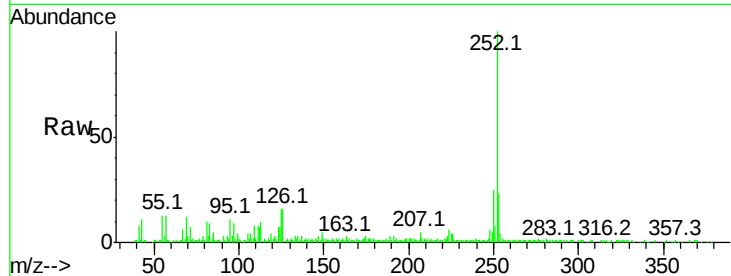
Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 114640

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	15.9	10.3	15.5#



#88

Benzo(k)fluoranthene

Concen: 14.36 ng

RT: 14.91 min Scan# 1122

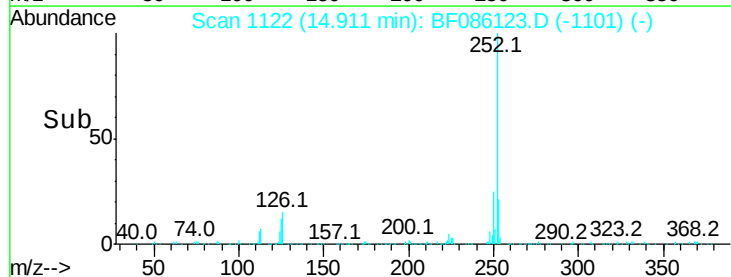
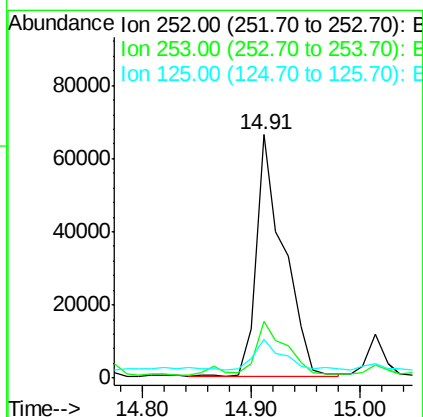
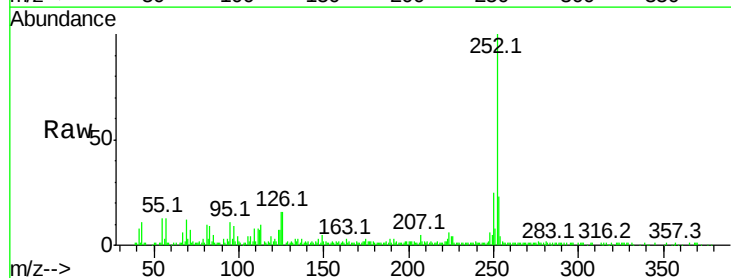
Delta R.T. -0.06 min

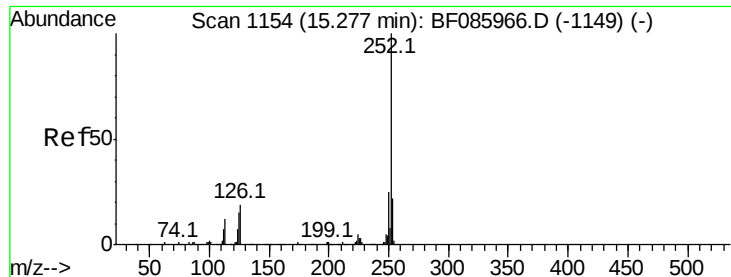
Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Tgt Ion:252 Resp: 114640

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.6
125	15.9	7.7	11.5#





#89

Benzo(a)pyrene

Concen: 7.15 ng

RT: 15.24 min Scan# 1151

Delta R.T. -0.03 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

Instrument :

BNA_F

ClientSampleId :

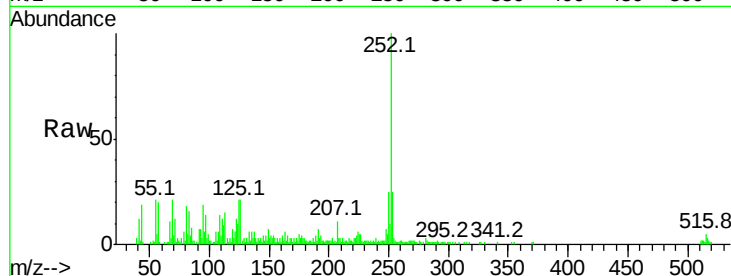
Tot Ion:252 Resp: 57139

Ion Ratio Lower Upper

252 100

253 24.6 17.4 26.0

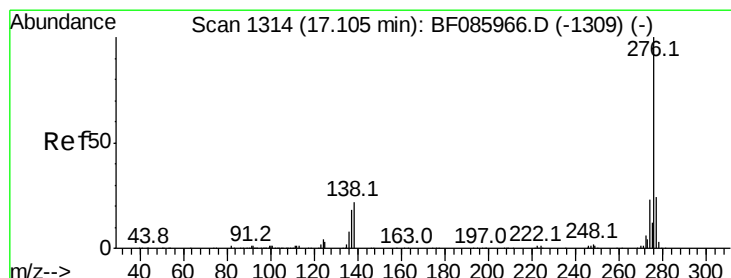
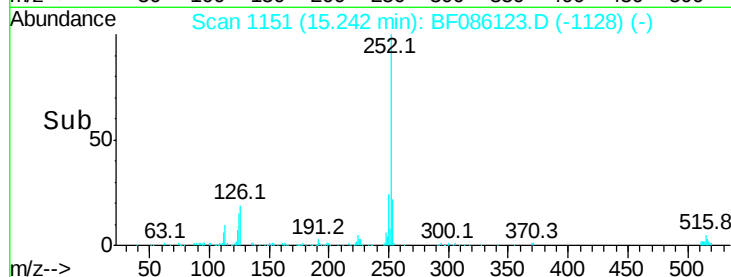
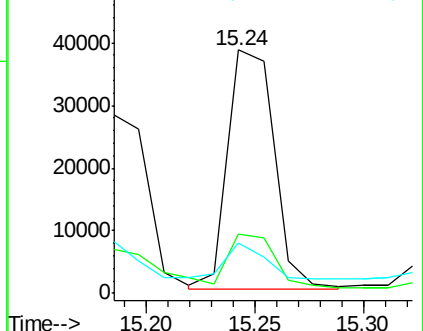
125 20.7 10.3 15.5#



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: 4.72 ng

RT: 17.06 min Scan# 1310

Delta R.T. -0.05 min

Lab File: BF086123.D

Acq: 7 Apr 2016 3:13

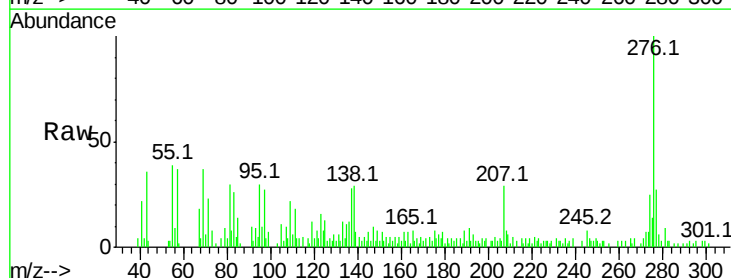
Tgt Ion:276 Resp: 29336

Ion Ratio Lower Upper

276 100

277 27.2 18.8 28.2

138 29.1 22.6 34.0



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

