

Data File : BF100505.D
Acq On : 13 Nov 2017 16:23
Operator : SJ/JU
Sample : I6409-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JC-02-110917-C

Quant Time: Nov 14 00:46:11 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 13 14:08:38 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	87331	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	342534	20.00	ng	0.00
38) Acenaphthene-d10	9.93	164	161357	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	276991	20.00	ng	0.00
75) Chrysene-d12	14.06	240	170197	20.00	ng	0.01
86) Perylene-d12	15.54	264	171543	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	499137	91.62	ng	0.02
7) Phenol-d6	6.52	99	609462	90.72	ng	0.00
23) Nitrobenzene-d5	7.45	82	376509	72.67	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	164623	100.12	ng	0.00
44) 2-Fluorobiphenyl	9.25	172	569958	53.79	ng	0.00
78) Terphenyl-d14	13.00	244	345582	46.65	ng	0.00

Target Compounds						Qvalue
10) Phenol	6.53	94	28586	4.05	ng	95
22) Acetophenone	7.29	105	17579	2.10	ng	# 95
25) Isophorone	7.45	82	376246	34.56	ng	# 64
31) Naphthalene	8.19	128	66978	4.06	ng	98
32) Benzoic acid	7.95	122	1015	9.59	ng	# 25
47) 2-Nitroaniline	9.47	65	262	2.87	ng	# 1
48) Acenaphthylene	9.79	152	86590	5.16	ng	99
49) Dimethylphthalate	9.63	163	56162	4.56	ng	# 99
53) 2,4-Dinitrophenol	9.98	184	498	8.46	ng	# 1
57) Fluorene	10.47	166	47550	4.54	ng	100
62) Azobenzene	10.64	77	28056	2.42	ng	# 1
64) 4,6-Dinitro-2-methylphenol	10.74	198	956	9.13	ng	81
66) 4-Bromophenyl-phenylether	10.72	248	10466	3.52	ng	# 1
70) Phenanthrene	11.44	178	687185	47.12	ng	98
71) Anthracene	11.49	178	235559	15.92	ng	100
74) Fluoranthene	12.64	202	1340986	86.76	ng	96
77) Pyrene	12.87	202	1172724	96.66	ng	100
80) Benzo(a)anthracene	14.05	228	687606	67.09	ng	97
82) Chrysene	14.09	228	602759	60.73	ng	98
83) Bis(2-ethylhexyl)phthalate	14.03	149	25905	3.98	ng	# 99
85) Indeno(1,2,3-cd)pyrene	17.03	276	279503	34.82	ng	# 87
87) Benzo(b)fluoranthene	15.11	252	965081	94.96	ng	97
88) Benzo(k)fluoranthene	15.11	252	965081	100.50	ng	97
89) Benzo(a)pyrene	15.48	252	518474	57.55	ng	97
90) Dibenzo(a,h)anthracene	17.04	278	70760	9.60	ng	94
91) Benzo(g,h,i)perylene	17.49	276	230629	31.97	ng	# 89

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

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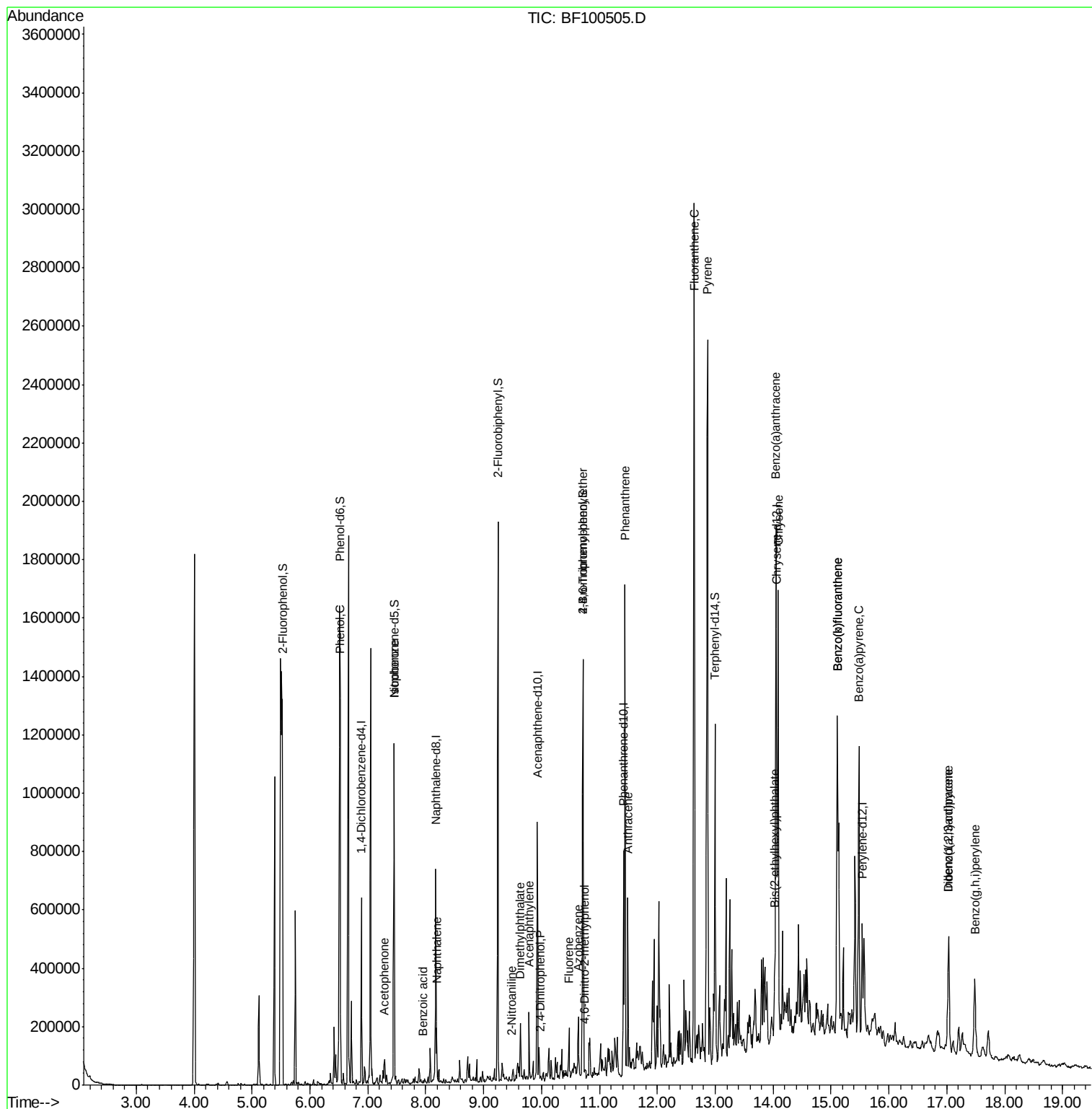
Quant Time: Nov 14 00:46:11 2017

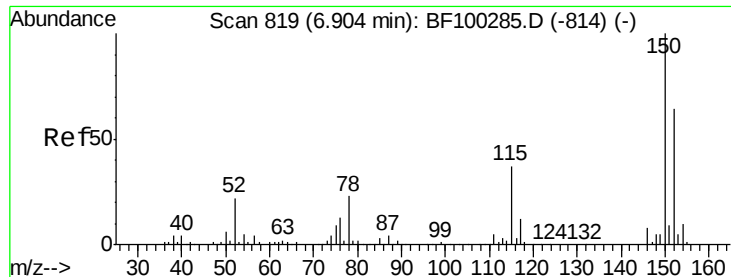
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Nov 13 14:08:38 2017

Response via : Initial Calibration

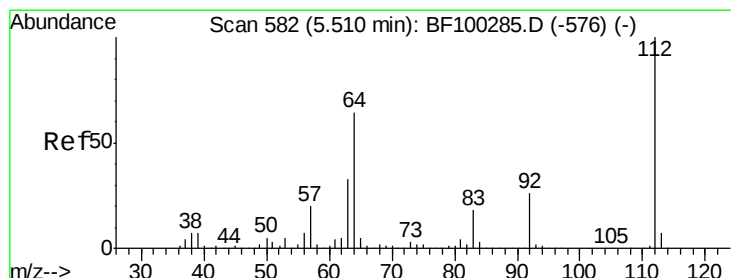
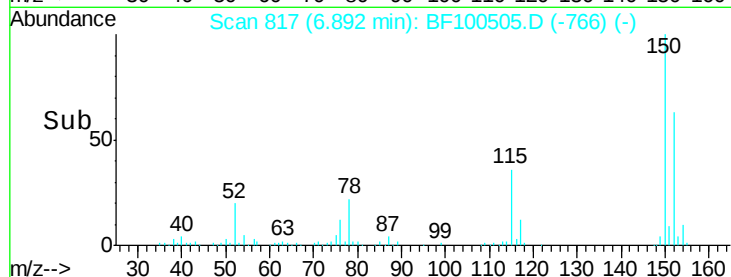
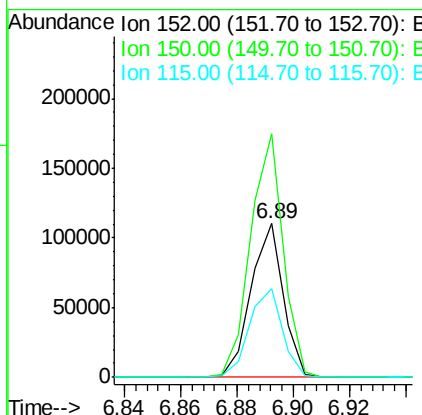
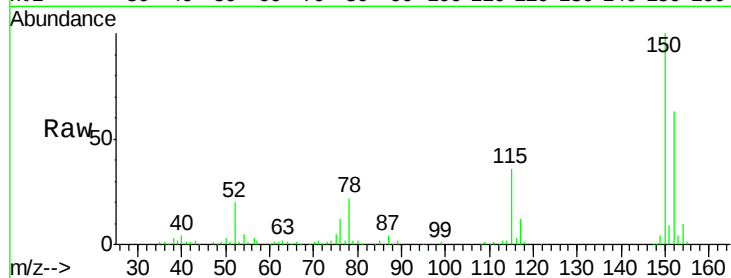




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.89 min Scan# 817
 Delta R.T. -0.00 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

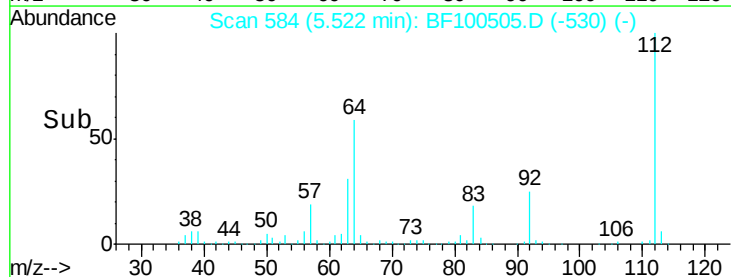
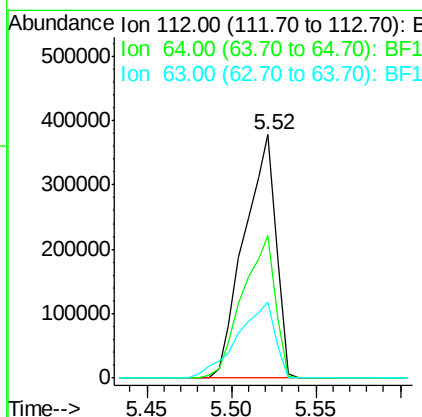
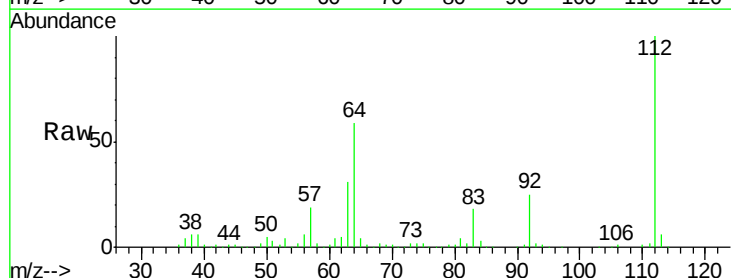
Instrument :
 BNA_F
 ClientSampleId :
 JC-02-110917-C

Tgt Ion:152 Resp: 87331
 Ion Ratio Lower Upper
 152 100
 150 158.3 124.6 186.8
 115 57.3 50.1 75.1



#5
 2-Fluorophenol
 Concen: 91.62 ng
 RT: 5.52 min Scan# 584
 Delta R.T. 0.02 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

Tgt Ion:112 Resp: 499137
 Ion Ratio Lower Upper
 112 100
 64 58.7 47.9 71.9
 63 31.3 23.7 35.5





#7

Phenol-d6

Concen: 90.72 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.00 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

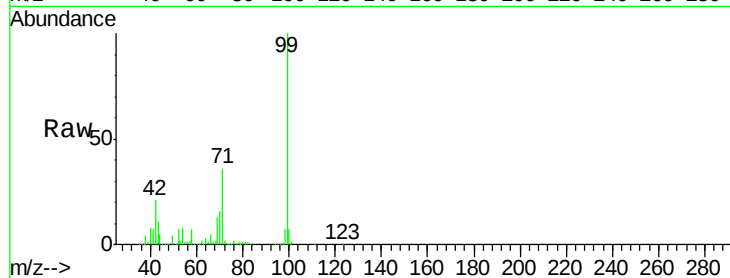
Tgt Ion: 99 Resp: 609462

Ion Ratio Lower Upper

99 100

42 21.0 14.5 21.7

71 36.5 25.4 38.0



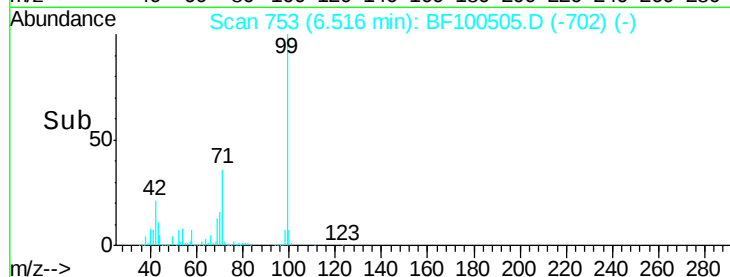
Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

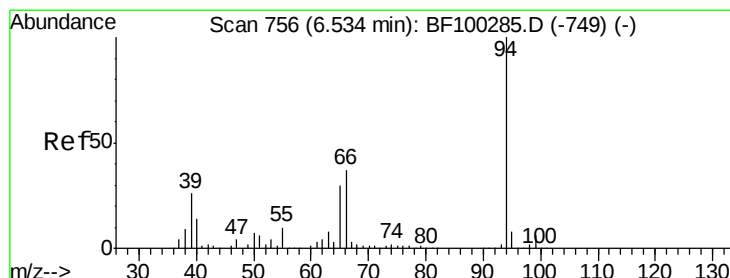
Ion 71.00 (70.70 to 71.70): BF1

6.52

6.45 6.50 6.55 6.60



Time-->



#10

Phenol

Concen: 4.05 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.00 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

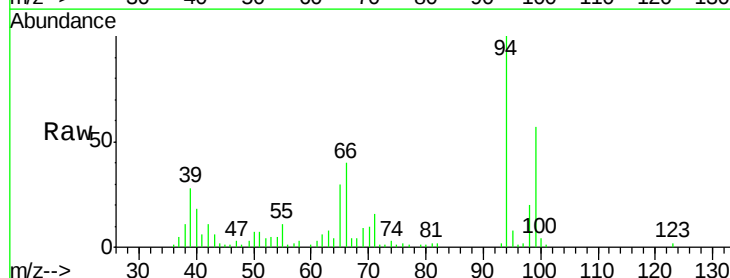
Tgt Ion: 94 Resp: 28586

Ion Ratio Lower Upper

94 100

65 29.7 7.9 47.9

66 39.6 16.2 56.2



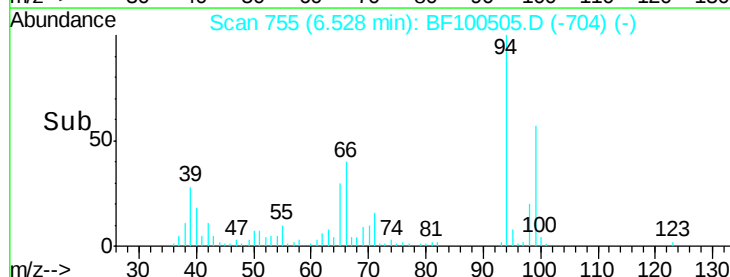
Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

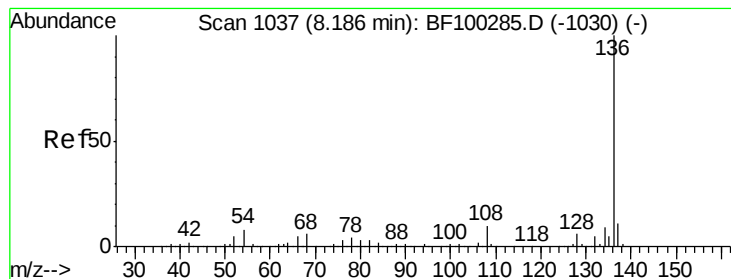
Ion 66.00 (65.70 to 66.70): BF1

6.53

6.48 6.50 6.52 6.54 6.56



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.17 min Scan# 1035

Delta R.T. -0.00 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

Tgt Ion:136 Resp: 342534

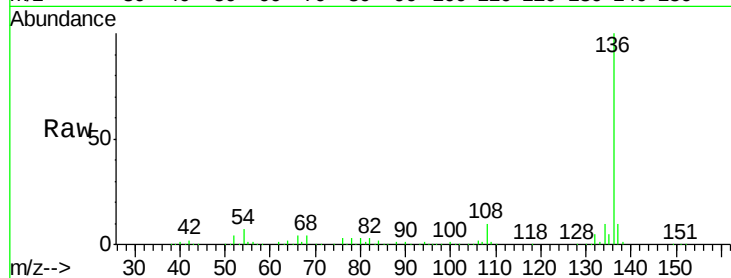
Ion Ratio Lower Upper

136 100

137 10.4 8.9 13.3

54 6.8 6.6 9.8

68 4.0 5.0 7.4#

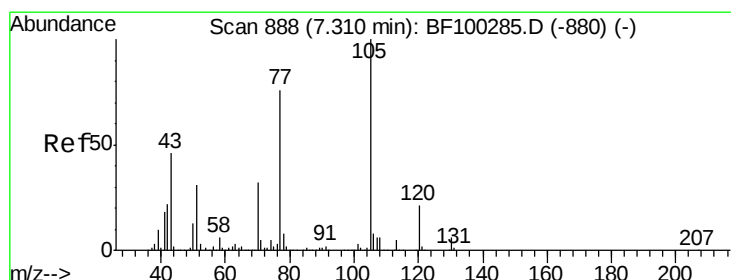
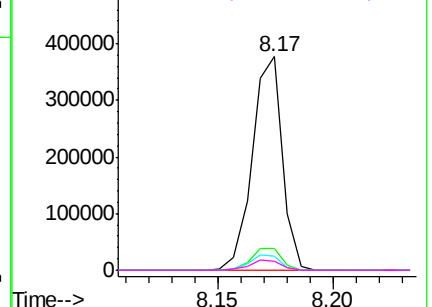
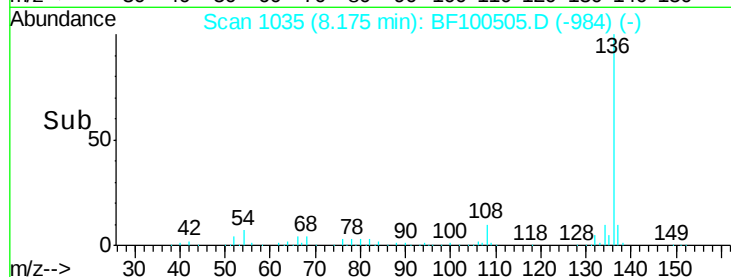


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#22

Acetophenone

Concen: 2.10 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Tgt Ion:105 Resp: 17579

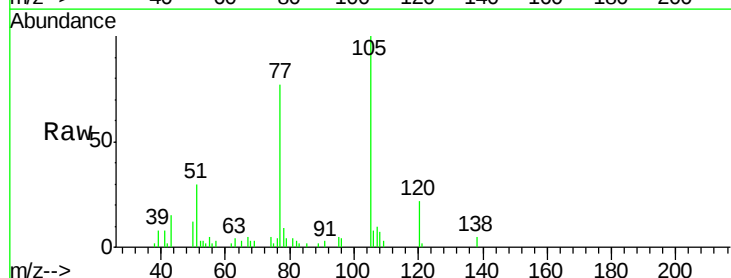
Ion Ratio Lower Upper

105 100

71 0.0 4.4 6.6#

51 30.1 22.3 33.5

120 22.3 16.9 25.3

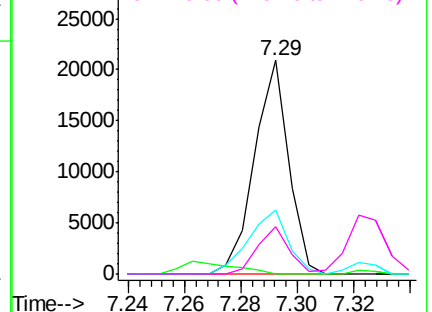
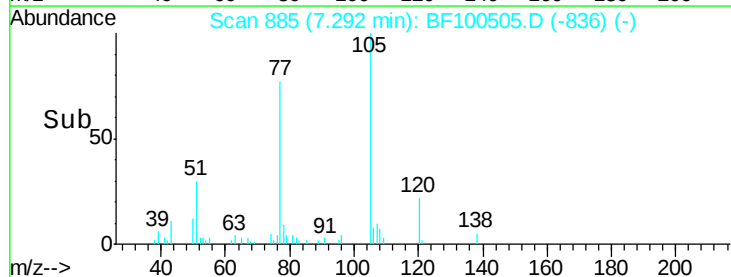


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E

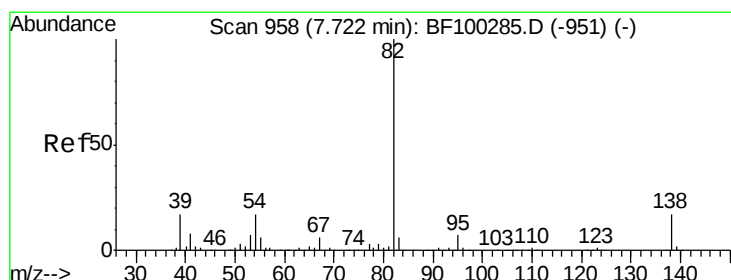
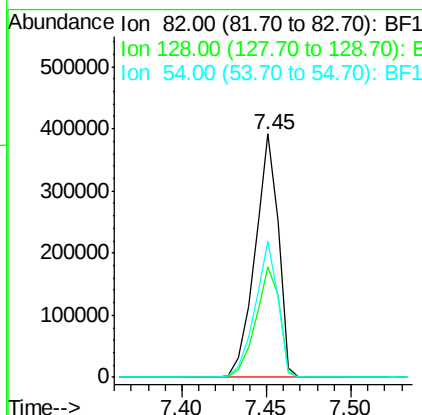
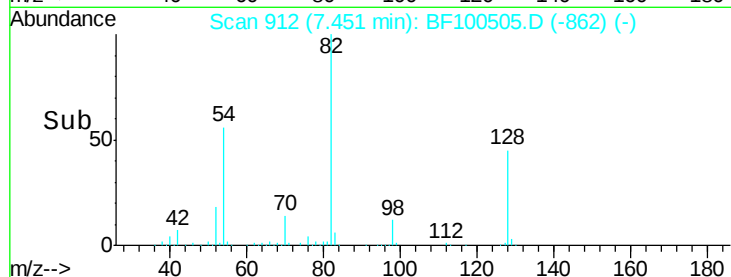
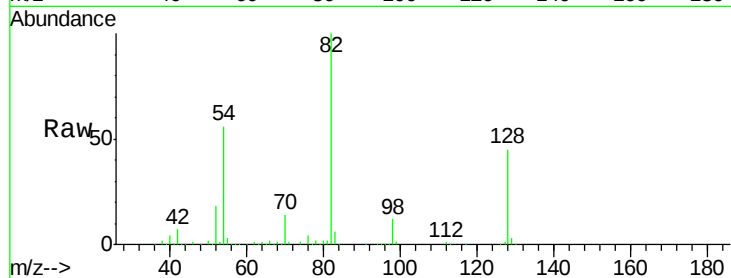




#23
Nitrobenzene-d5
Concen: 72.67 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF100505.D
Acq: 13 Nov 2017 16:23

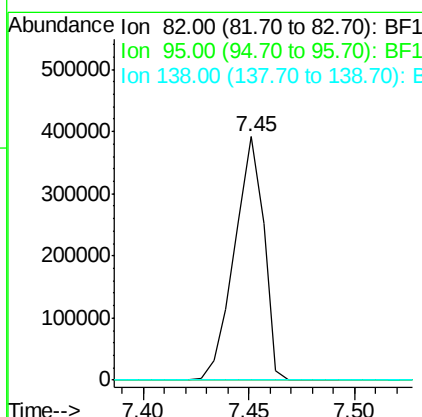
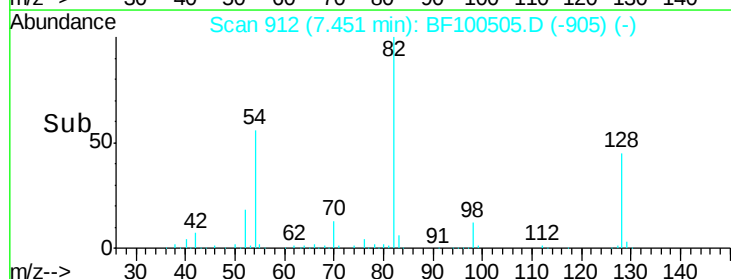
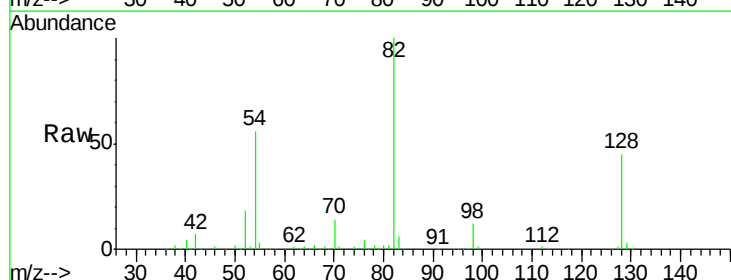
Instrument :
BNA_F
ClientSampleId :
JC-02-110917-C

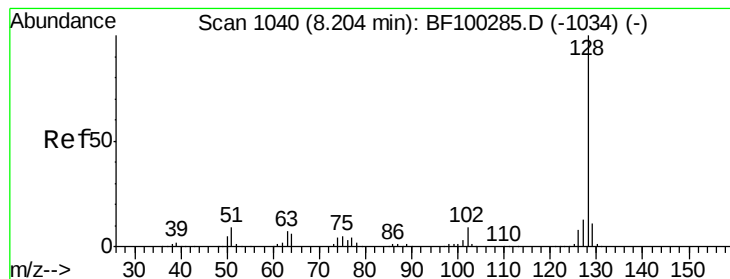
Tgt Ion: 82 Resp: 376509
Ion Ratio Lower Upper
82 100
128 45.1 36.1 54.1
54 55.7 41.4 62.2



#25
Isophorone
Concen: 34.56 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.26 min
Lab File: BF100505.D
Acq: 13 Nov 2017 16:23

Tgt Ion: 82 Resp: 376246
Ion Ratio Lower Upper
82 100
95 0.1 5.2 7.8#
138 0.0 14.9 22.3#





#31

Naphthalene

Concen: 4.06 ng

RT: 8.19 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

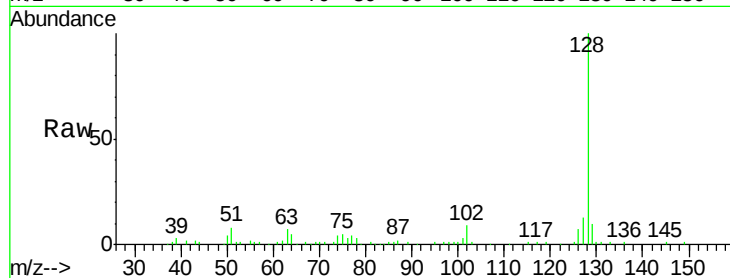
Tgt Ion:128 Resp: 66978

Ion Ratio Lower Upper

128 100

129 10.1 8.8 13.2

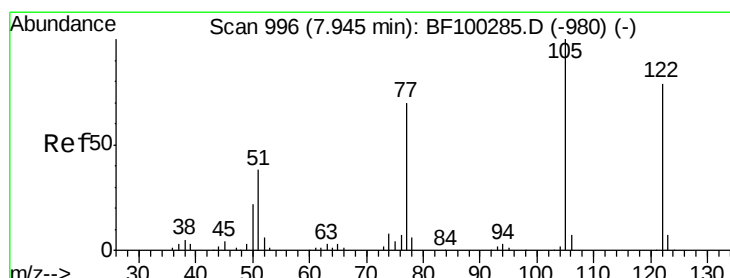
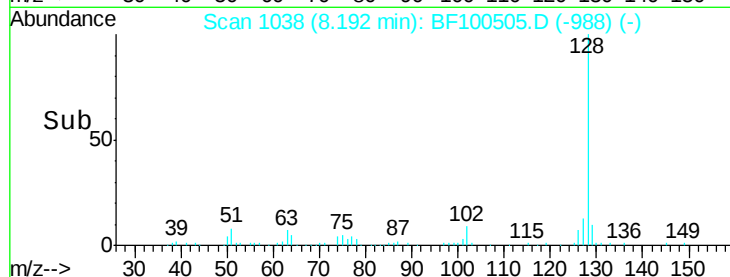
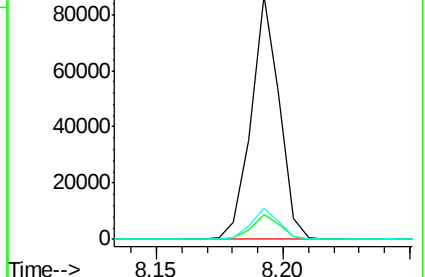
127 12.7 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 9.59 ng

RT: 7.95 min Scan# 996

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

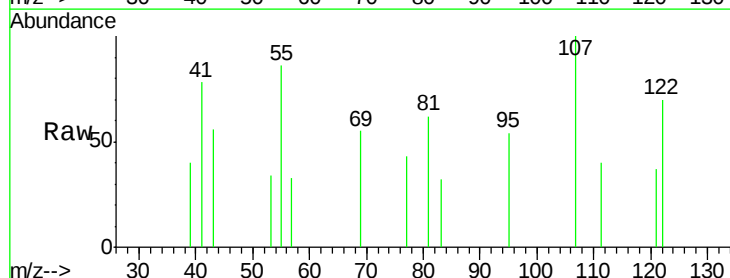
Tgt Ion:122 Resp: 1015

Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

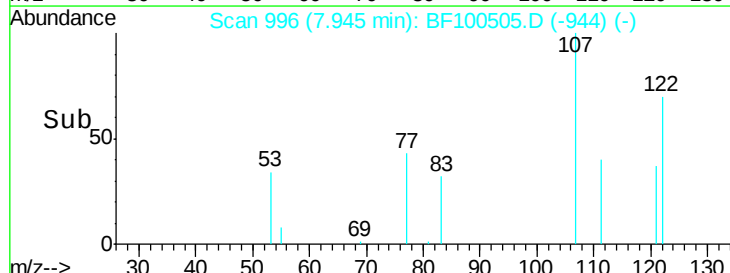
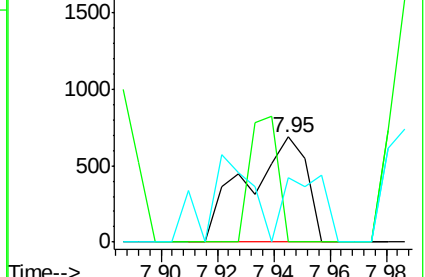
77 61.1 70.7 110.7#

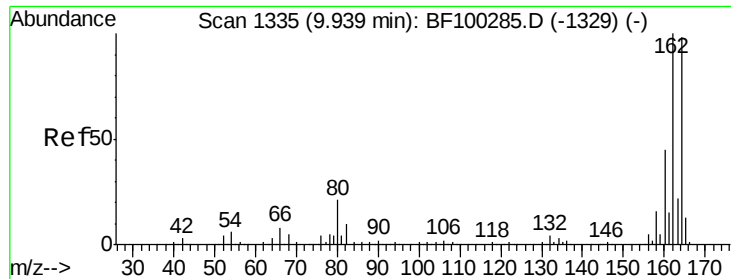


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.00 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

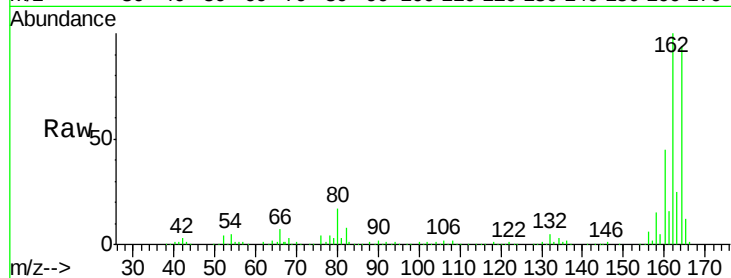
Tgt Ion:164 Resp: 161357

Ion Ratio Lower Upper

164 100

162 106.2 86.1 129.1

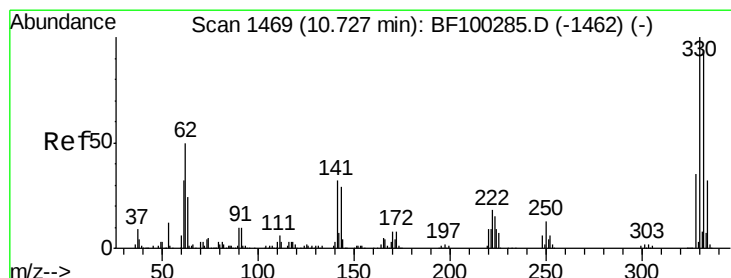
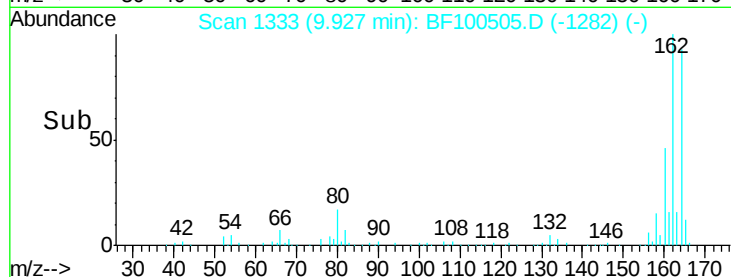
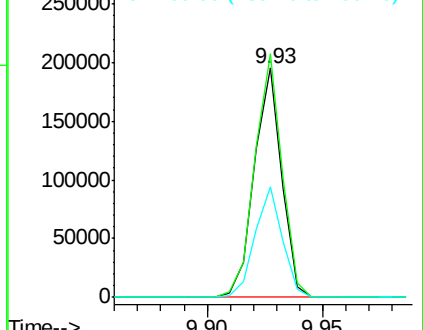
160 48.2 38.3 57.5



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: 100.12 ng

RT: 10.72 min Scan# 1467

Delta R.T. -0.00 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

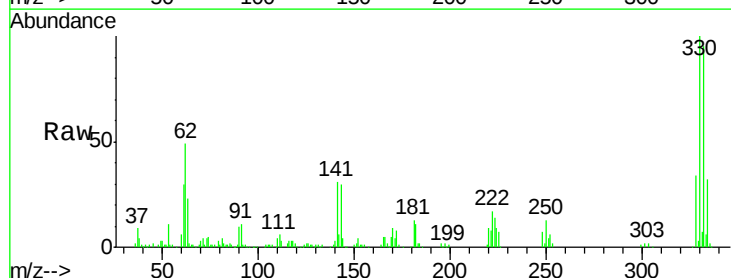
Tgt Ion:330 Resp: 164623

Ion Ratio Lower Upper

330 100

332 96.8 77.0 115.6

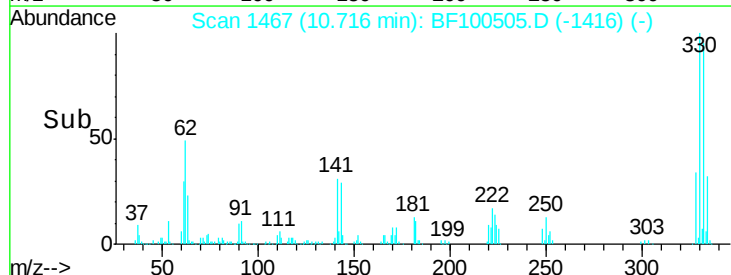
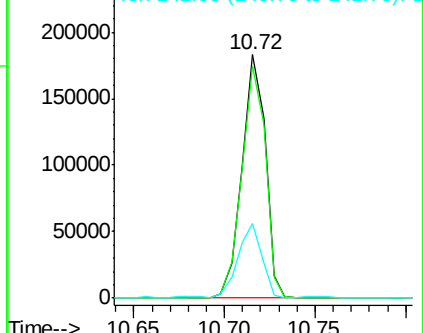
141 30.7 29.9 44.9

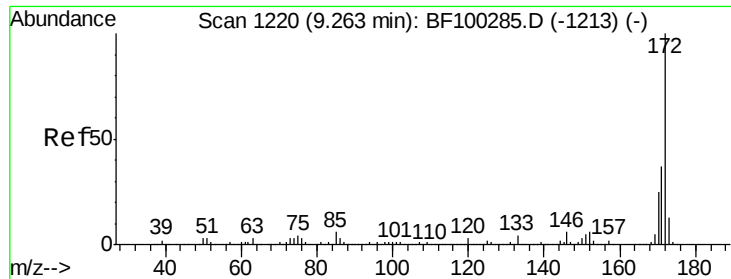


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

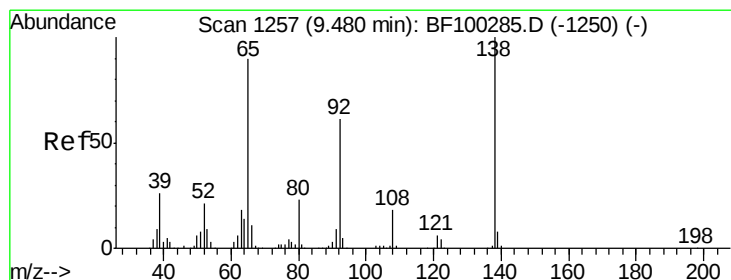
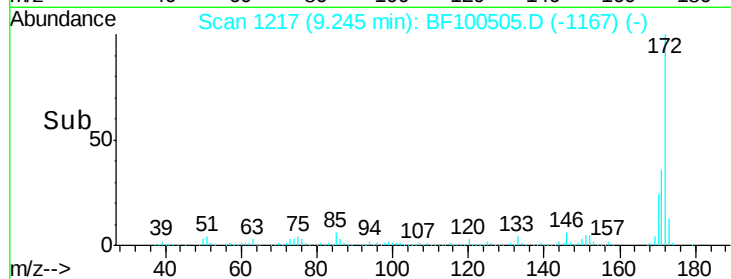
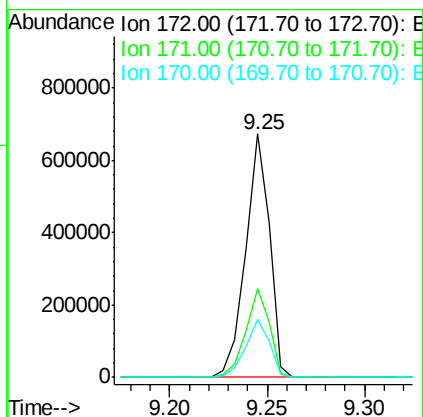
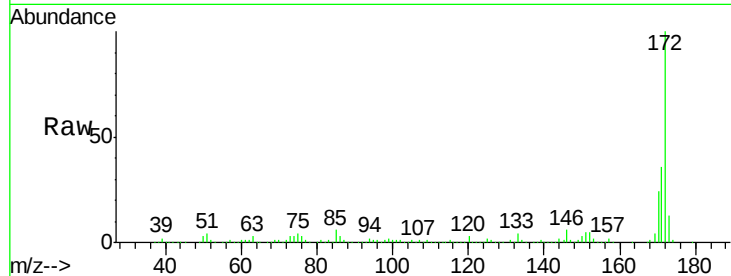




#44
 2-Fluorobiphenyl
 Concen: 53.79 ng
 RT: 9.25 min Scan# 1217
 Delta R.T. -0.01 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

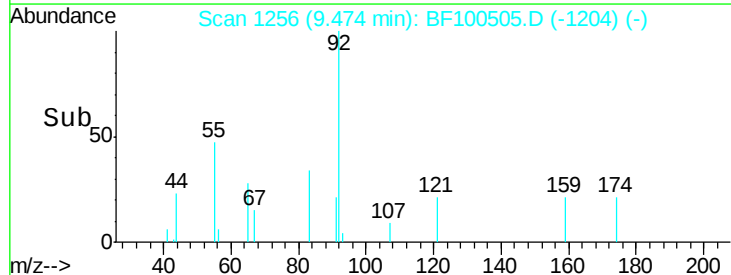
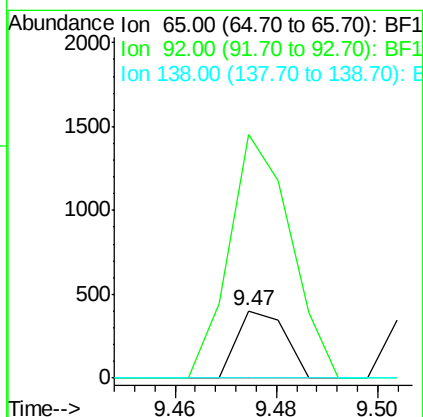
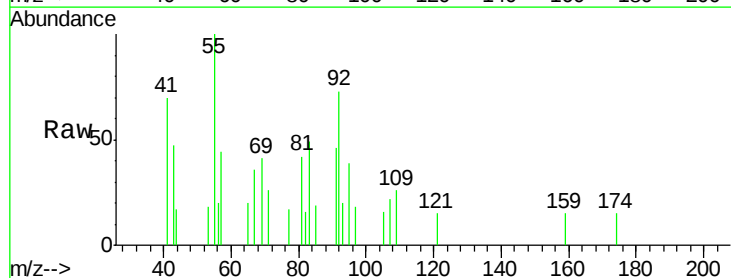
Instrument :
 BNA_F
 ClientSampleId :
 JC-02-110917-C

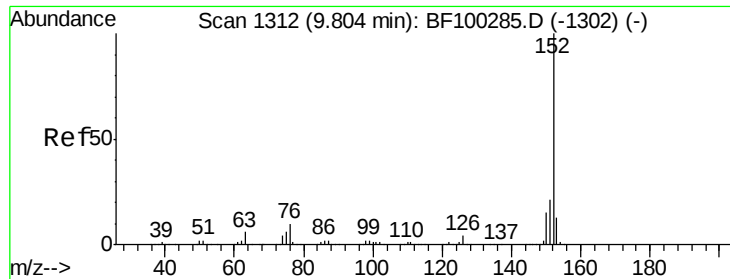
Tgt Ion: 172 Resp: 569958
 Ion Ratio Lower Upper
 172 100
 171 36.2 29.7 44.5
 170 24.0 19.6 29.4



#47
 2-Nitroaniline
 Concen: 2.87 ng
 RT: 9.47 min Scan# 1256
 Delta R.T. 0.01 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

Tgt Ion: 65 Resp: 262
 Ion Ratio Lower Upper
 65 100
 92 363.0 55.8 83.6#
 138 0.0 91.2 136.8#





#48

Acenaphthylene

Concen: 5.16 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

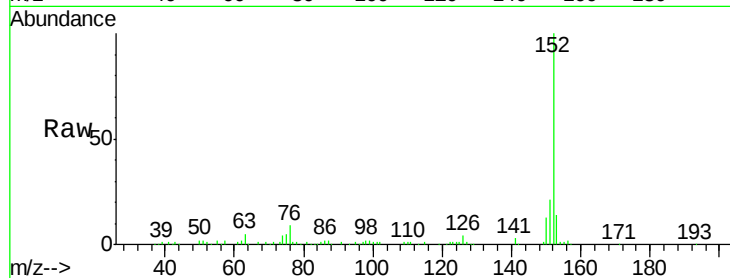
Tgt Ion:152 Resp: 86590

Ion Ratio Lower Upper

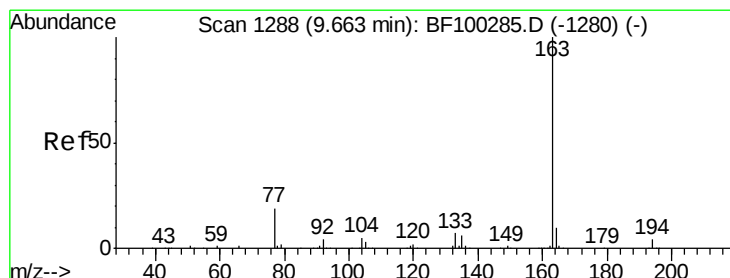
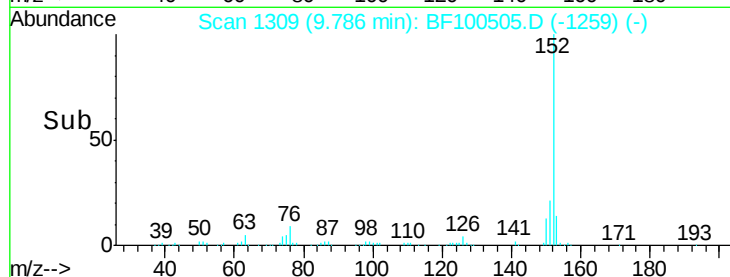
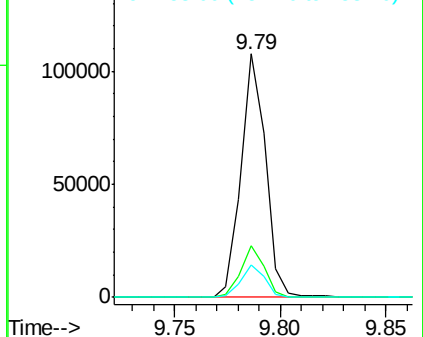
152 100

151 21.4 16.3 24.5

153 13.5 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 4.56 ng

RT: 9.63 min Scan# 1283

Delta R.T. -0.02 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

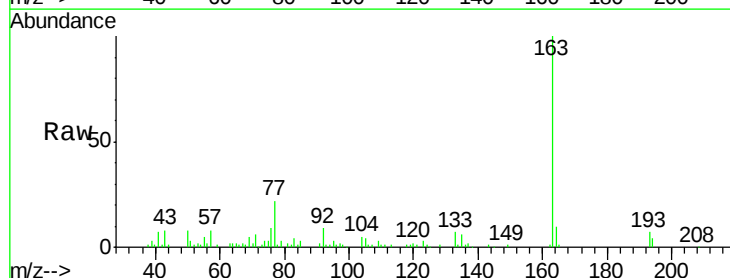
Tgt Ion:163 Resp: 56162

Ion Ratio Lower Upper

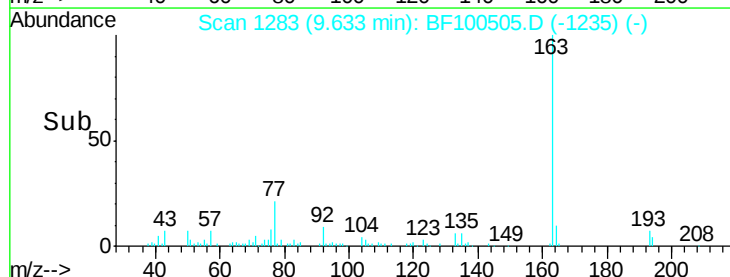
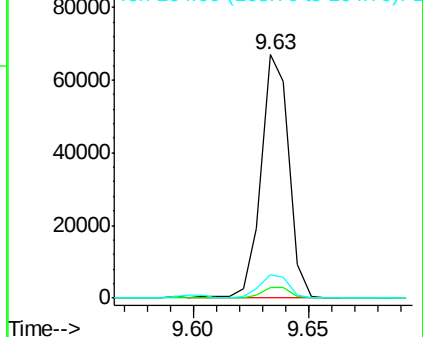
163 100

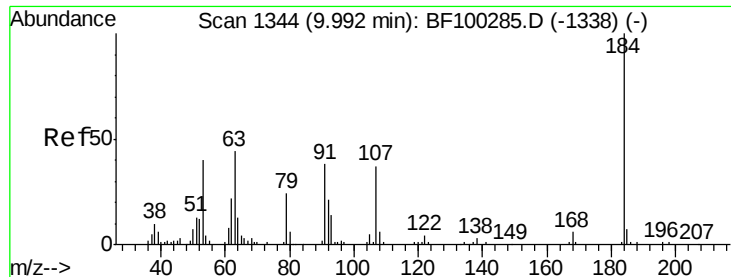
194 4.4 2.7 4.1#

164 9.9 8.2 12.2



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

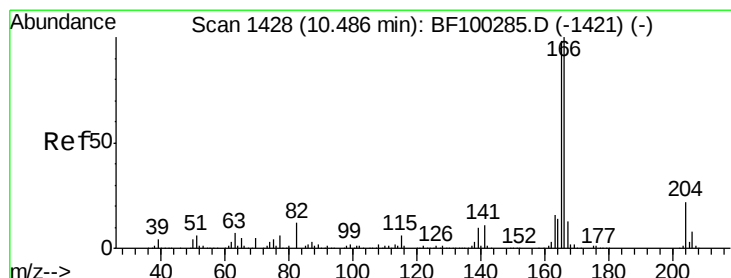
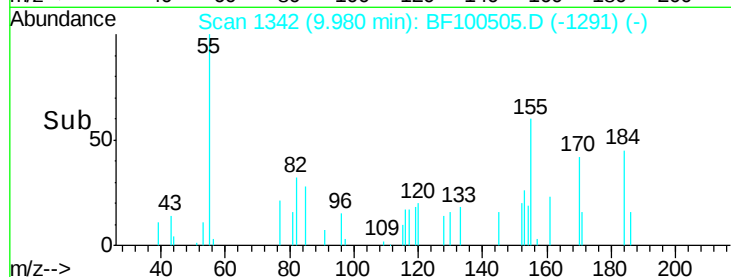
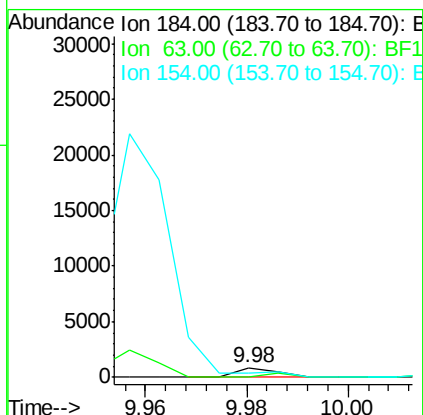
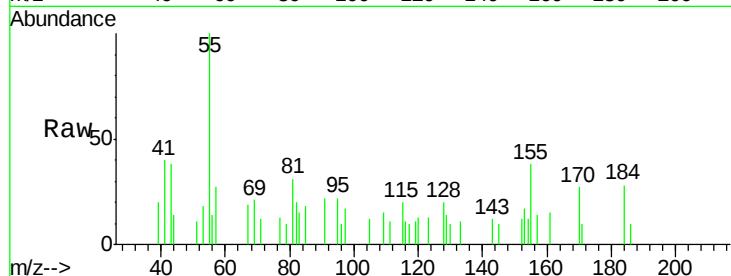




#53
 2,4-Dinitrophenol
 Concen: 8.46 ng
 RT: 9.98 min Scan# 1342
 Delta R.T. -0.00 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

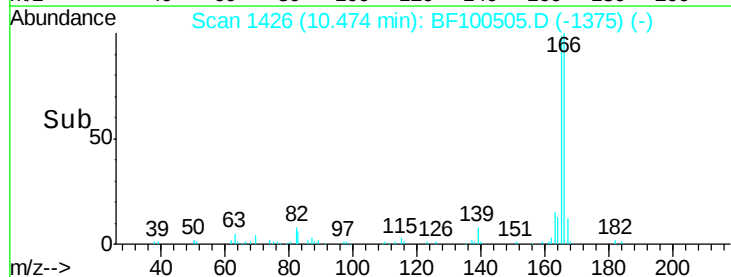
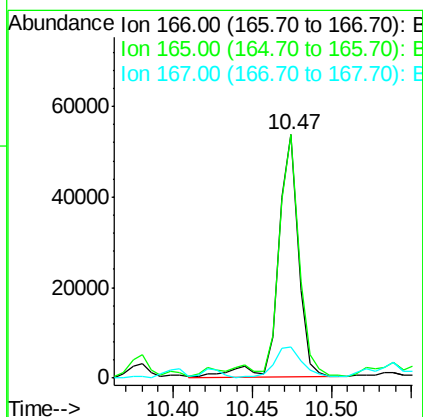
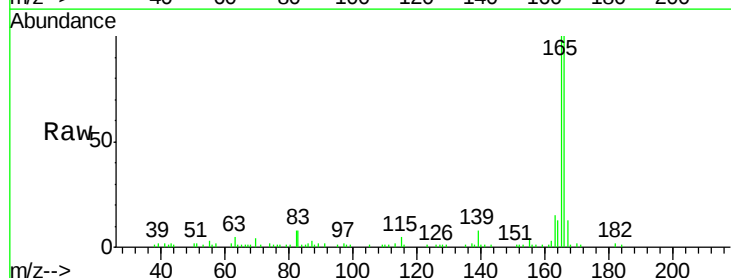
Instrument :
 BNA_F
 ClientSampleId :
 JC-02-110917-C

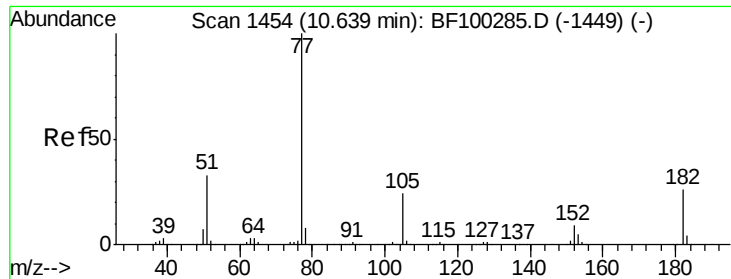
Tgt Ion:184 Resp: 498
 Ion Ratio Lower Upper
 184 100
 63 0.0 54.2 81.2#
 154 43.4 184.0 276.0#



#57
 Fluorene
 Concen: 4.54 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. -0.00 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

Tgt Ion:166 Resp: 47550
 Ion Ratio Lower Upper
 166 100
 165 100.0 79.8 119.8
 167 13.0 10.6 16.0





#62

Azobenzene

Concen: 2.42 ng

RT: 10.64 min Scan# 1454

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

Tgt Ion: 77 Resp: 28056

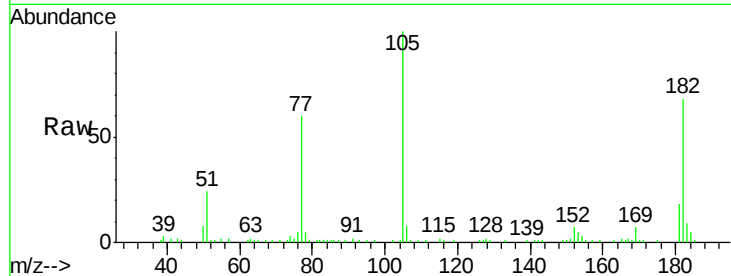
Ion Ratio Lower Upper

77 100

182 113.7 1.7 41.7#

105 166.7 3.0 43.0#

51 39.3 9.9 49.9

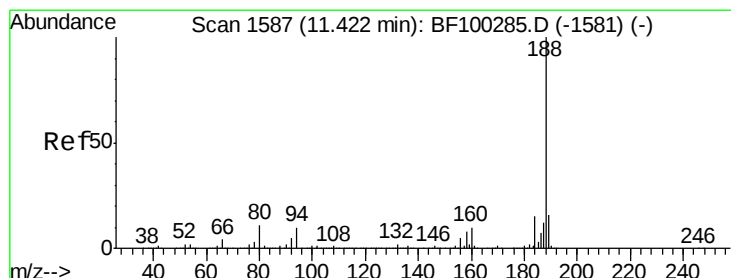
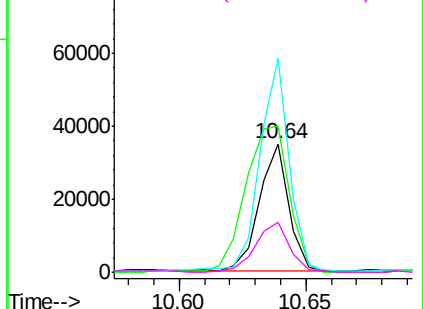
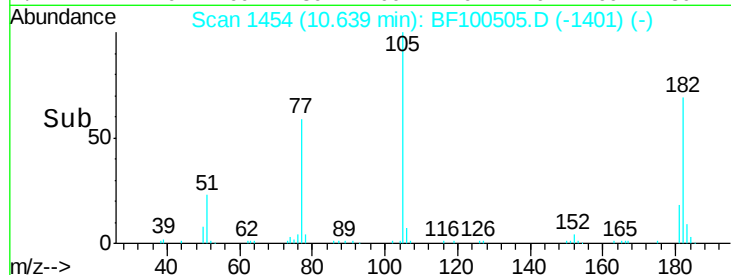


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.42 min Scan# 1586

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

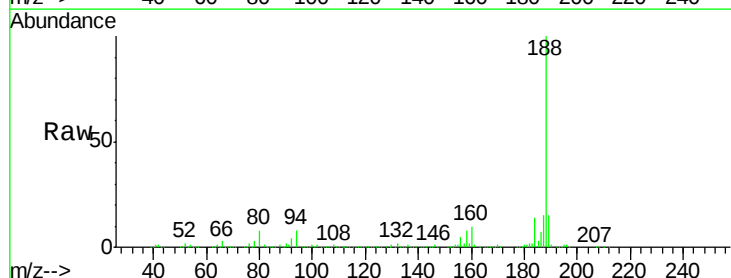
Tgt Ion: 188 Resp: 276991

Ion Ratio Lower Upper

188 100

94 7.8 8.5 12.7#

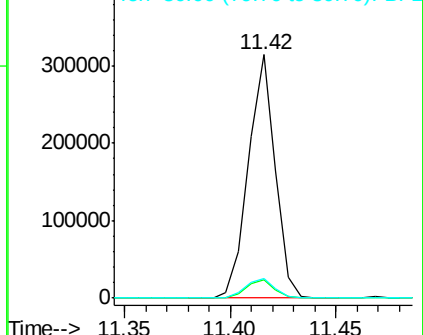
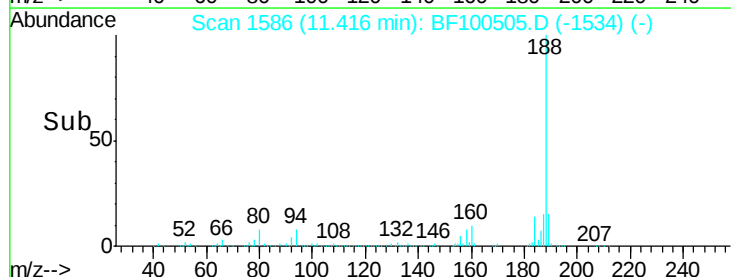
80 8.0 9.2 13.8#

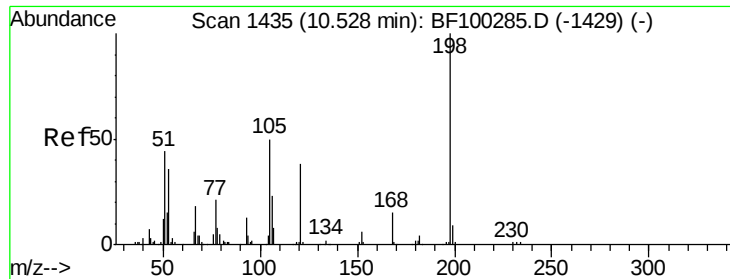


Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

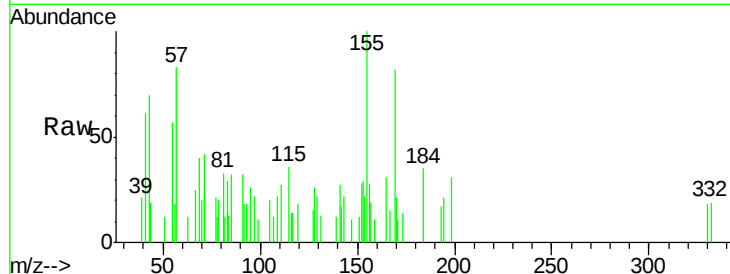




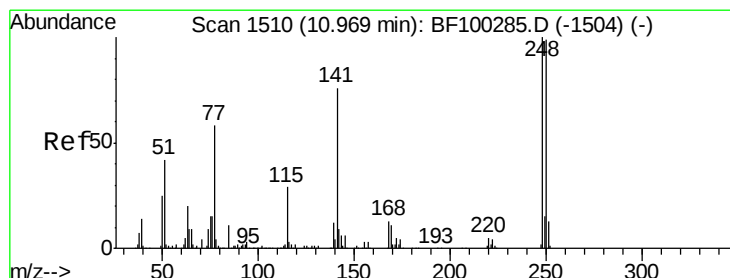
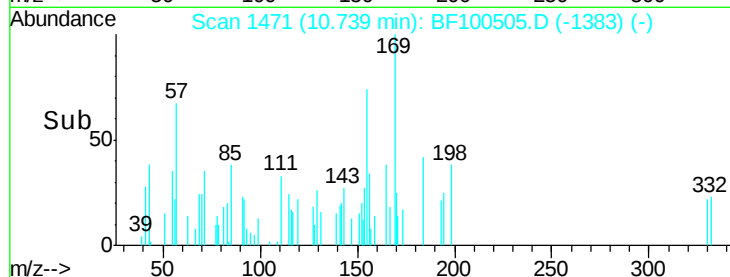
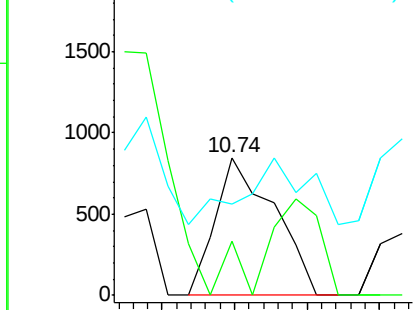
#64
 4,6-Dinitro-2-methylphenol
 Concen: 9.13 ng
 RT: 10.74 min Scan# 1471
 Delta R.T. 0.22 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

Instrument :
 BNA_F
 ClientSampleId :
 JC-02-110917-C

Tgt Ion:198 Resp: 956
 Ion Ratio Lower Upper
 198 100
 51 38.9 37.7 77.7
 105 66.0 36.3 76.3

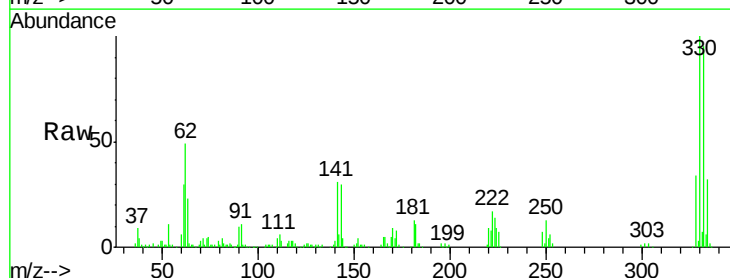


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

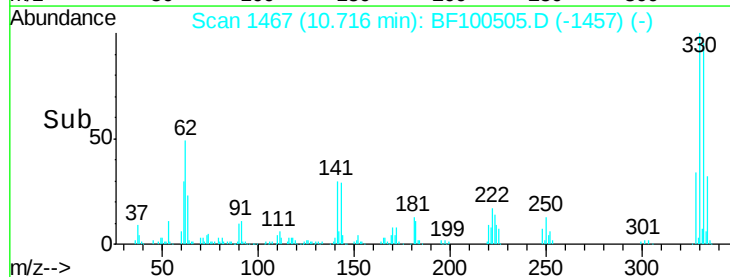
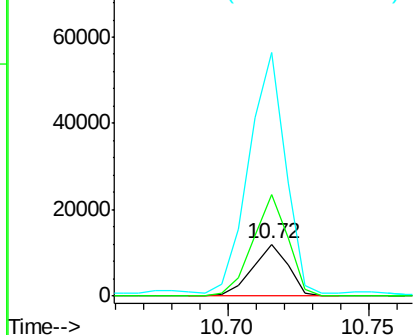


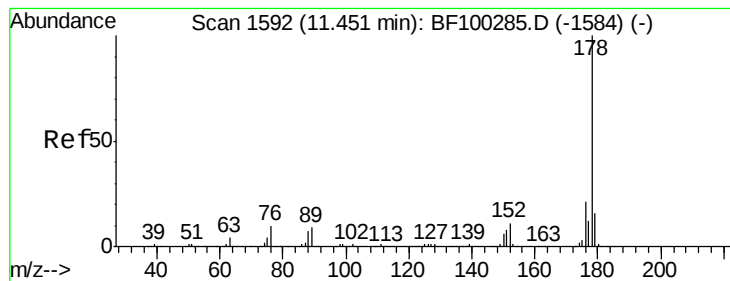
#66
 4-Bromophenyl-phenylether
 Concen: 3.52 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. -0.24 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

Tgt Ion:248 Resp: 10466
 Ion Ratio Lower Upper
 248 100
 250 195.3 76.9 115.3#
 141 466.8 74.4 111.6#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 47.12 ng

RT: 11.44 min Scan# 1591

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

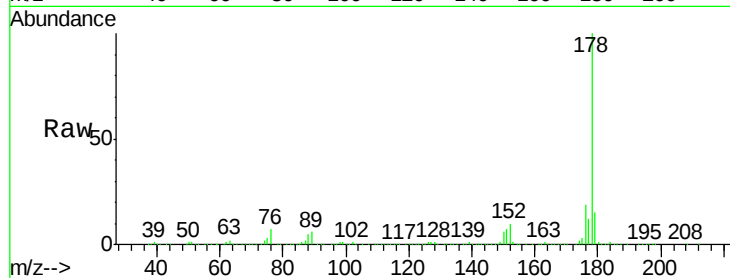
Tgt Ion:178 Resp: 687185

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

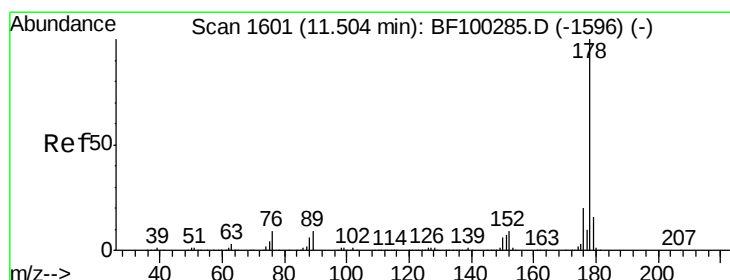
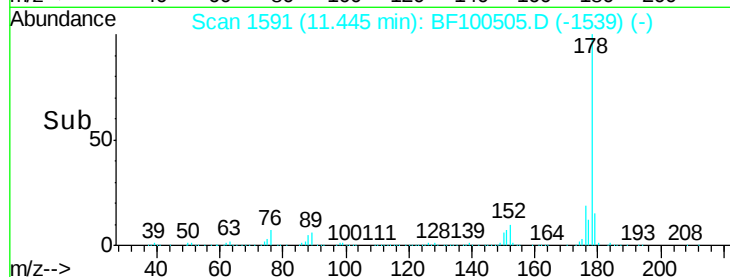
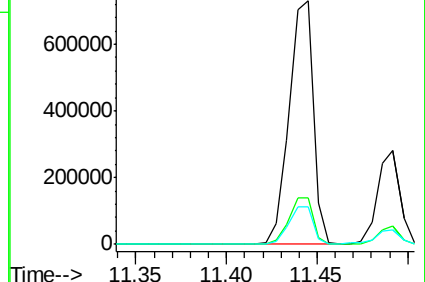
179 15.3 13.0 19.6



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: 15.92 ng

RT: 11.49 min Scan# 1599

Delta R.T. -0.00 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

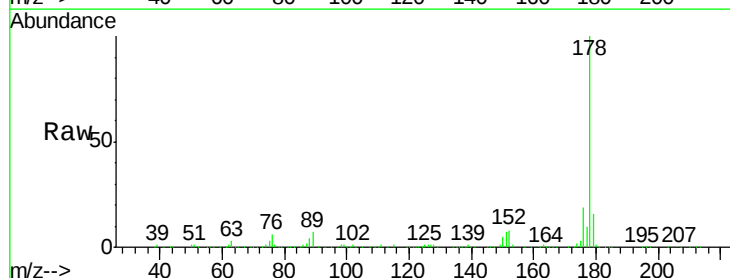
Tgt Ion:178 Resp: 235559

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

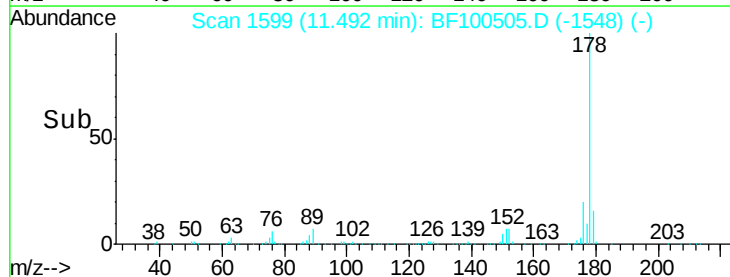
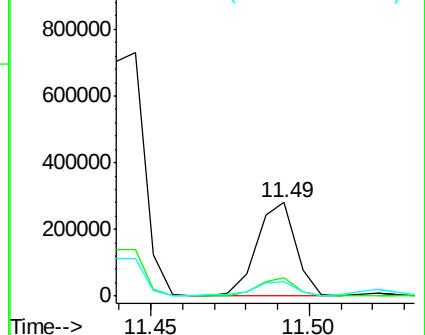
179 15.6 12.6 19.0

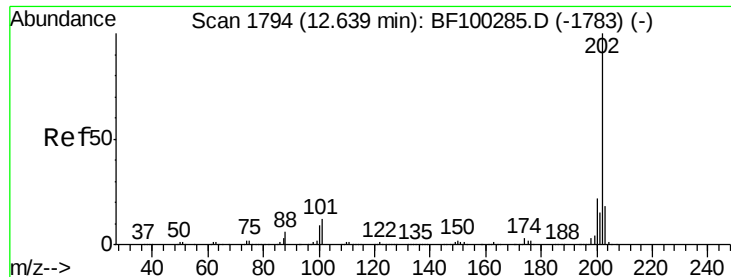


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 86.76 ng

RT: 12.64 min Scan# 1794

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

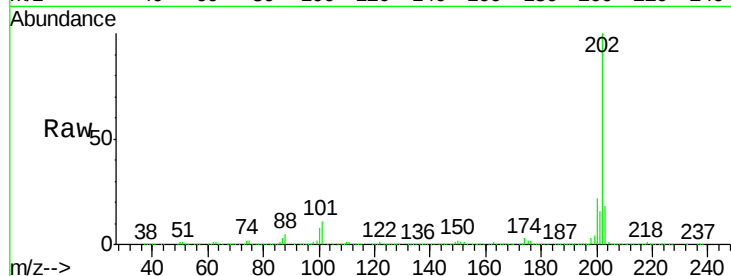
Tgt Ion:202 Resp: 1340986

Ion Ratio Lower Upper

202 100

101 10.8 0.0 34.1

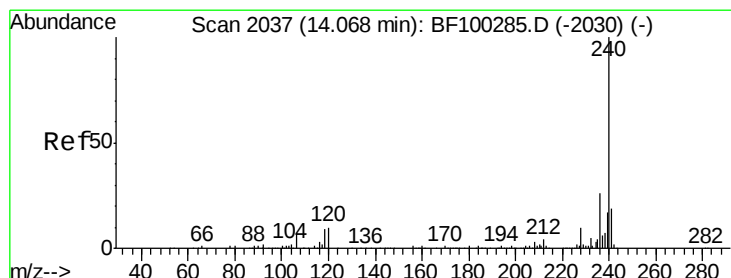
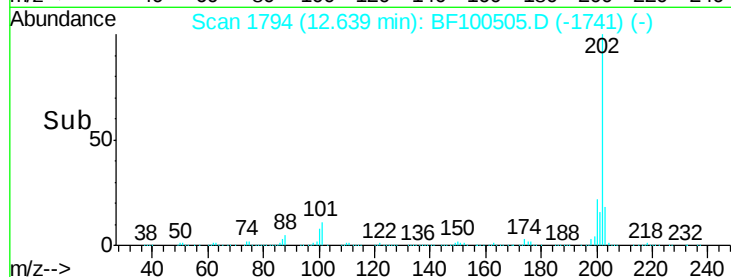
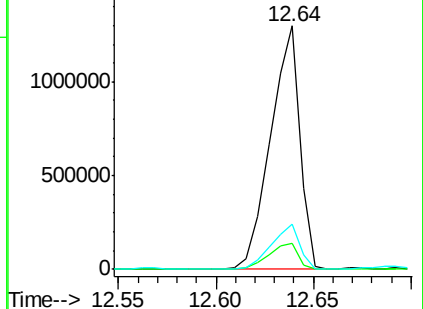
203 18.3 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.06 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

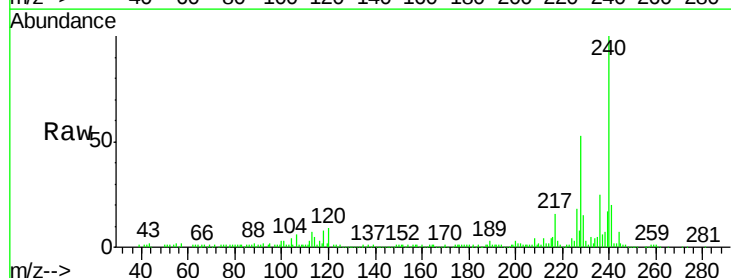
Tgt Ion:240 Resp: 170197

Ion Ratio Lower Upper

240 100

120 8.8 9.5 14.3#

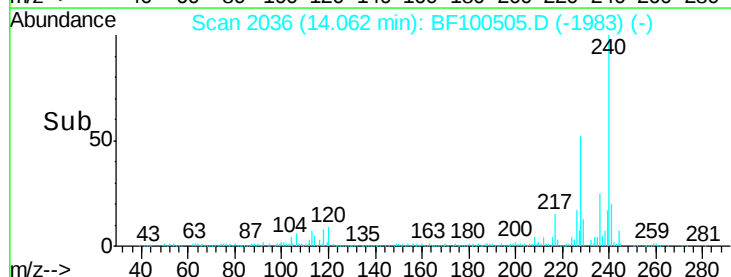
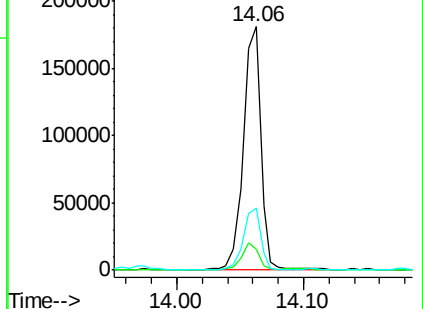
236 25.2 20.7 31.1

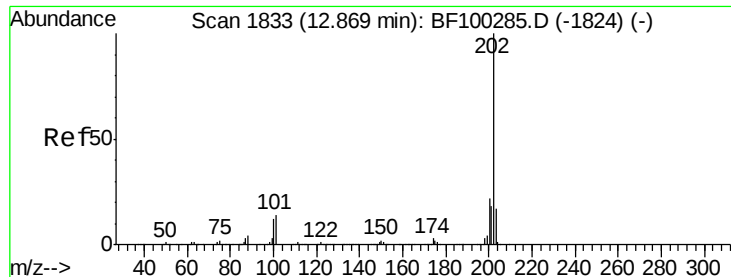


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 96.66 ng

RT: 12.87 min Scan# 1833

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

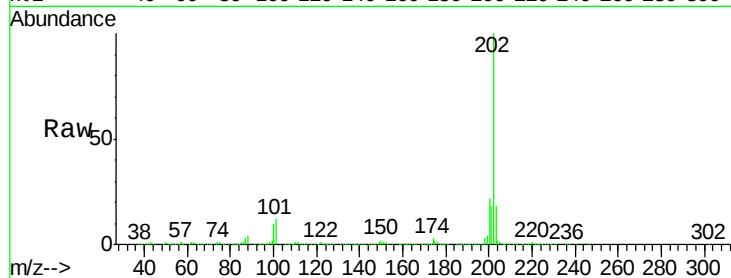
Tgt Ion:202 Resp: 1172724

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

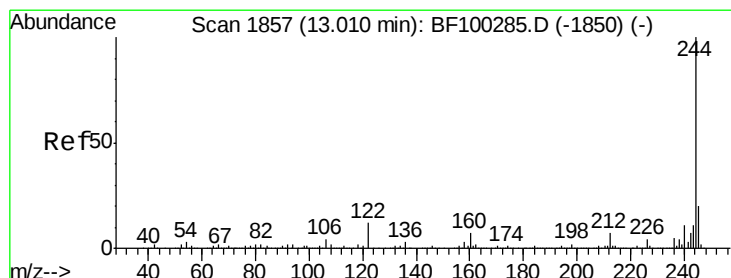
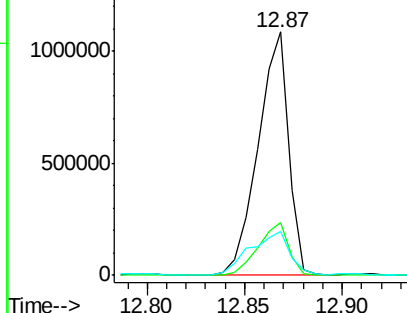
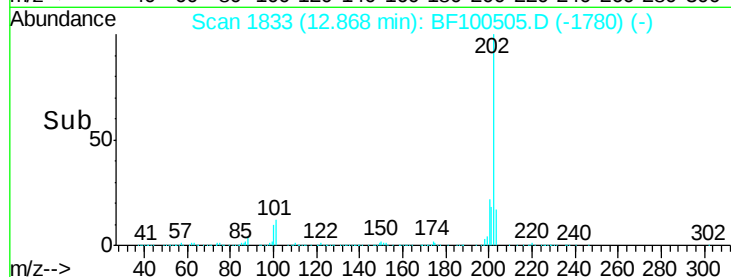
203 17.8 14.3 21.5



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: 46.65 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.00 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

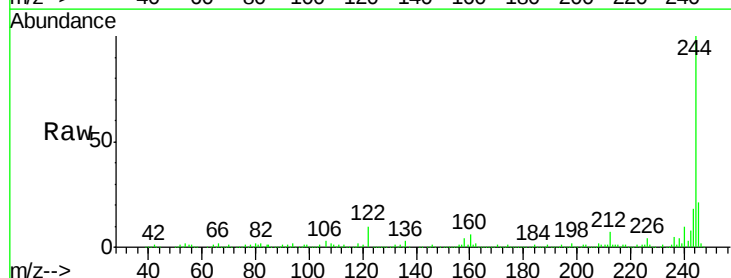
Tgt Ion:244 Resp: 345582

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

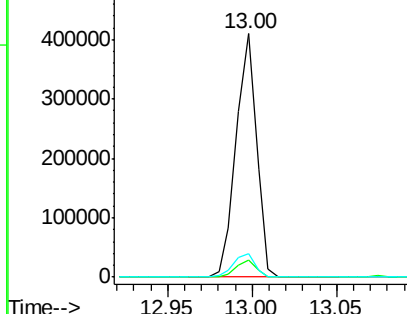
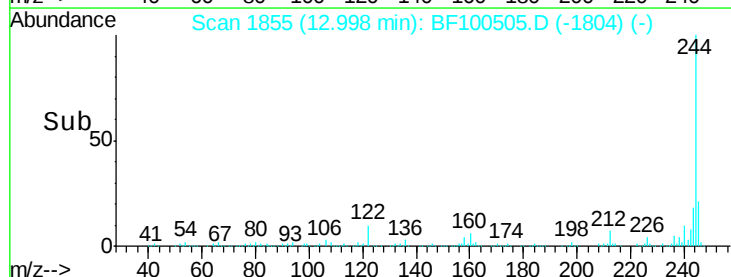
122 9.7 11.0 16.4#

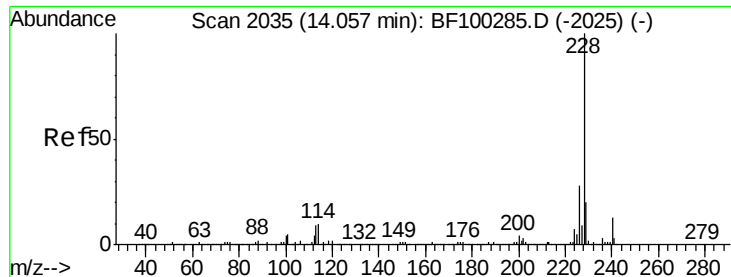


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 67.09 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

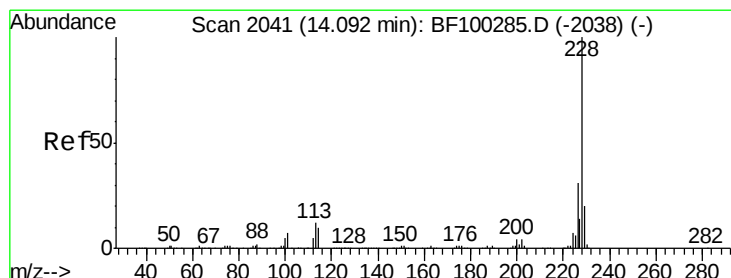
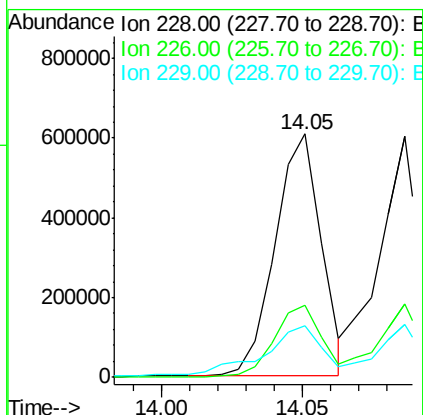
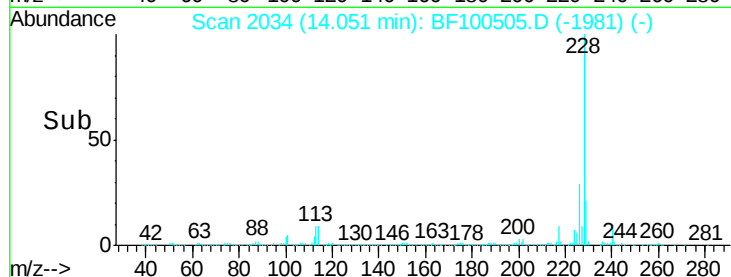
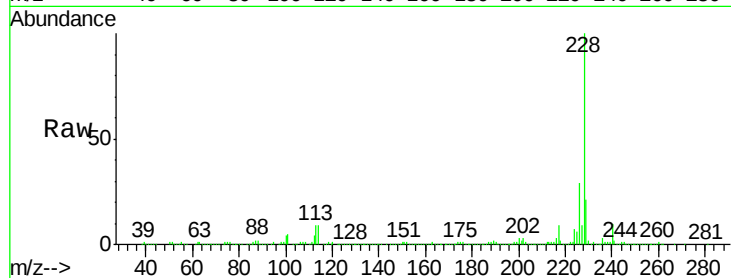
Tgt Ion:228 Resp: 687606

Ion Ratio Lower Upper

228 100

226 29.4 22.6 33.8

229 21.2 15.8 23.6



#82

Chrysene

Concen: 60.73 ng

RT: 14.09 min Scan# 2040

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

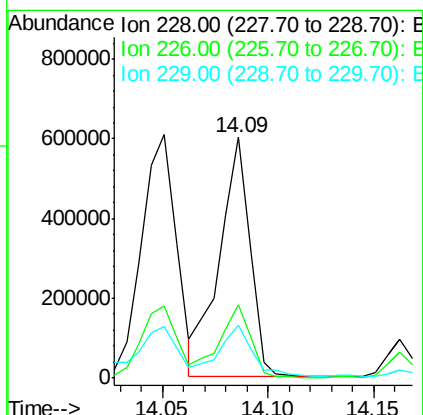
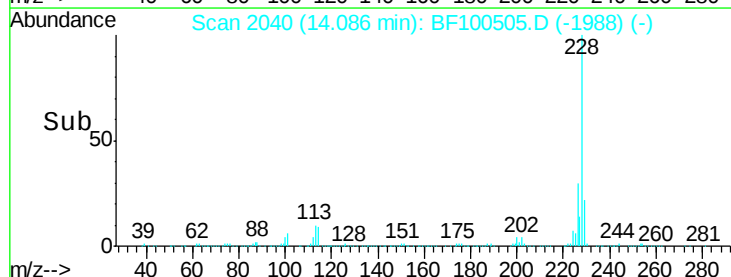
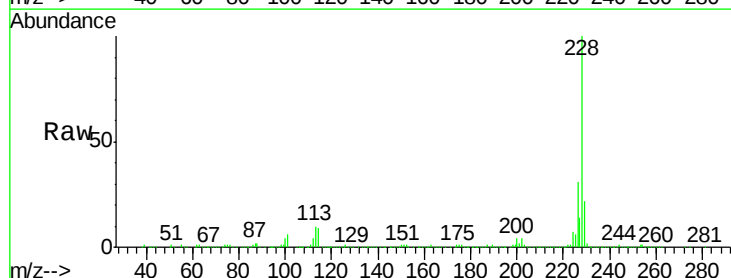
Tgt Ion:228 Resp: 602759

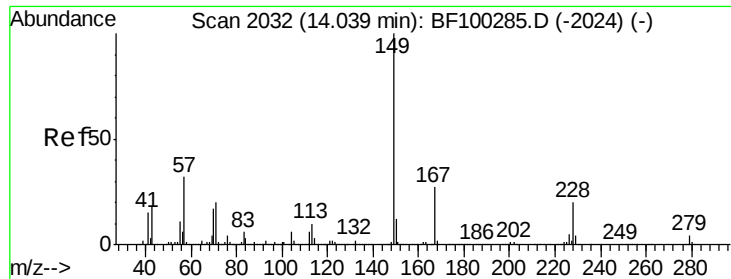
Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.6

229 21.9 16.2 24.4

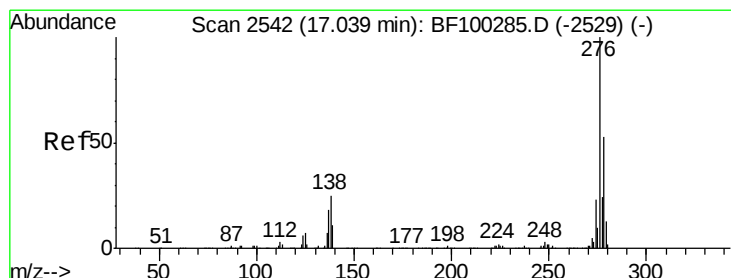
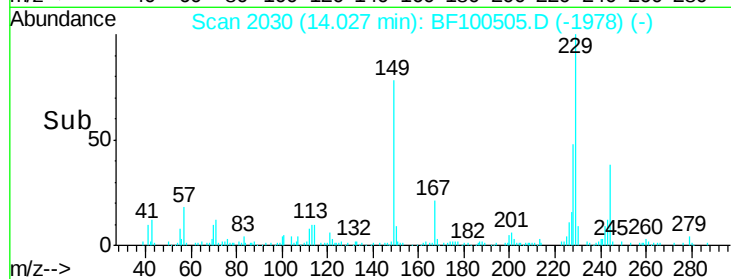
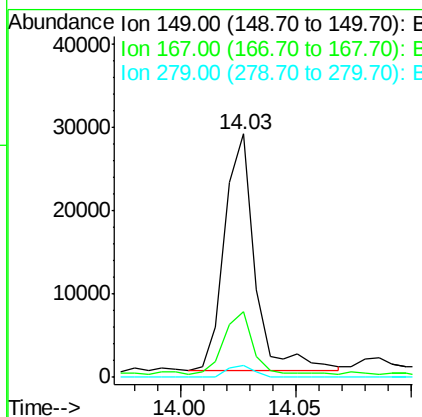
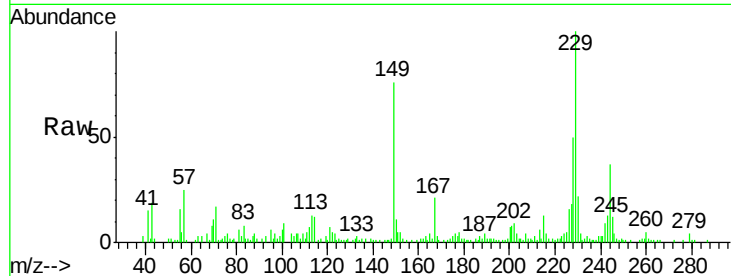




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.98 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. 0.01 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

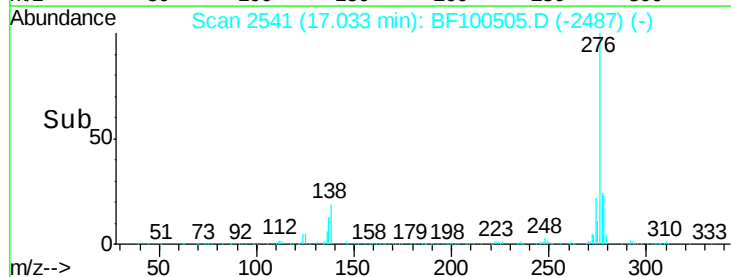
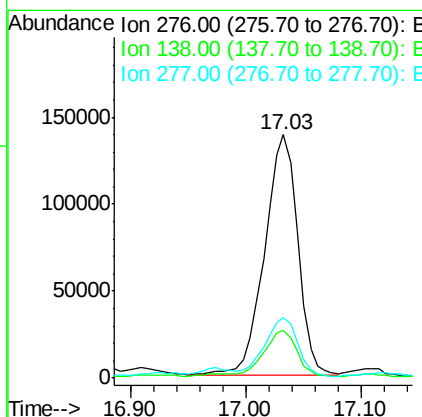
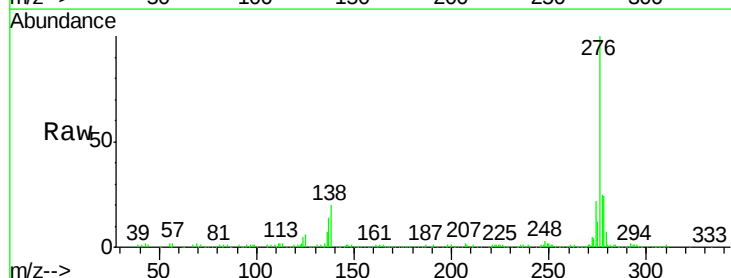
Instrument :
 BNA_F
 ClientSampleId :
 JC-02-110917-C

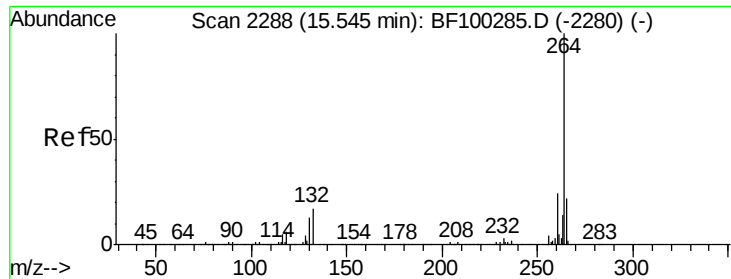
Tgt Ion:149 Resp: 25905
 Ion Ratio Lower Upper
 149 100
 167 27.2 21.3 31.9
 279 4.8 3.0 4.4#



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 34.82 ng
 RT: 17.03 min Scan# 2541
 Delta R.T. 0.02 min
 Lab File: BF100505.D
 Acq: 13 Nov 2017 16:23

Tgt Ion:276 Resp: 279503
 Ion Ratio Lower Upper
 276 100
 138 19.0 25.0 37.6#
 277 24.1 20.1 30.1

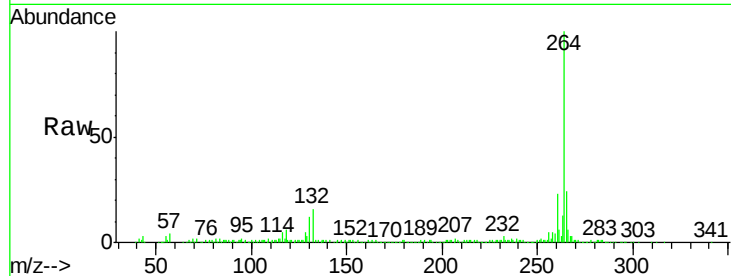




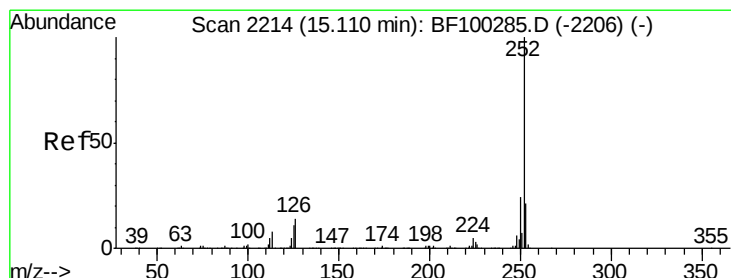
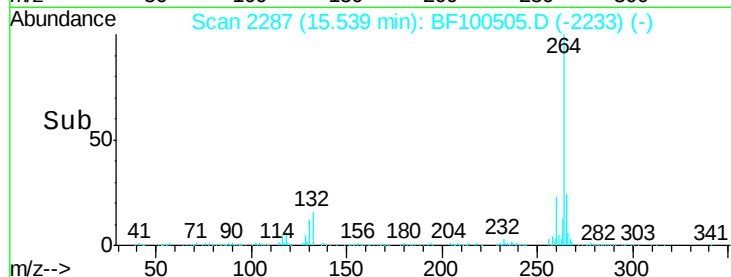
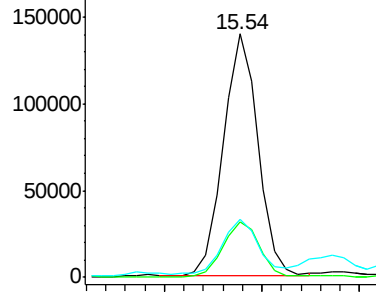
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.02 min
Lab File: BF100505.D
Acq: 13 Nov 2017 16:23

Instrument :
BNA_F
ClientSampleId :
JC-02-110917-C

Tgt Ion:264 Resp: 171543
Ion Ratio Lower Upper
264 100
260 23.0 19.2 28.8
265 24.1 17.5 26.3

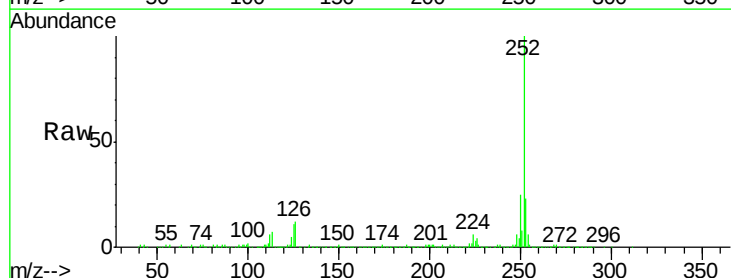


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

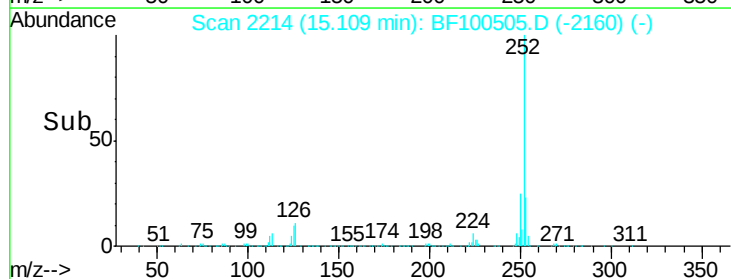
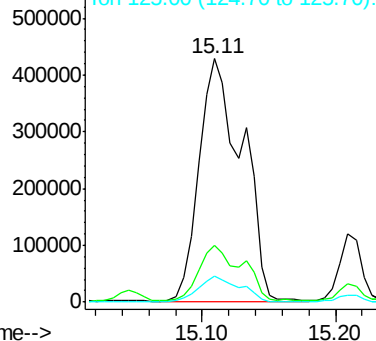


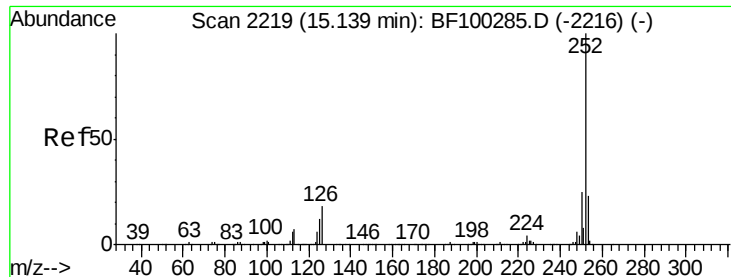
#87
Benzo(b)fluoranthene
Concen: 94.96 ng
RT: 15.11 min Scan# 2214
Delta R.T. 0.02 min
Lab File: BF100505.D
Acq: 13 Nov 2017 16:23

Tgt Ion:252 Resp: 965081
Ion Ratio Lower Upper
252 100
253 23.3 17.0 25.6
125 10.6 9.0 13.6



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

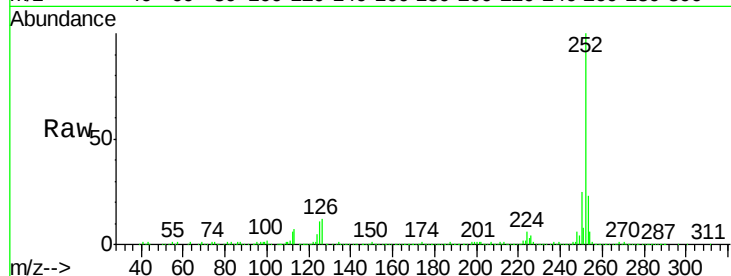




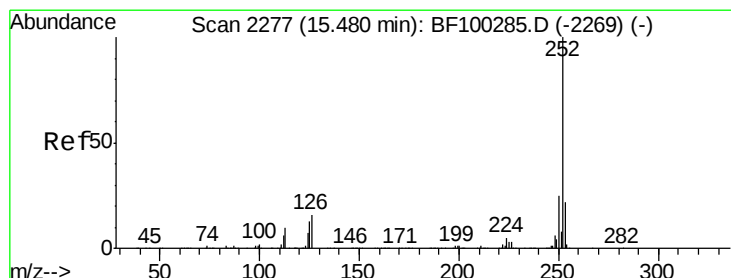
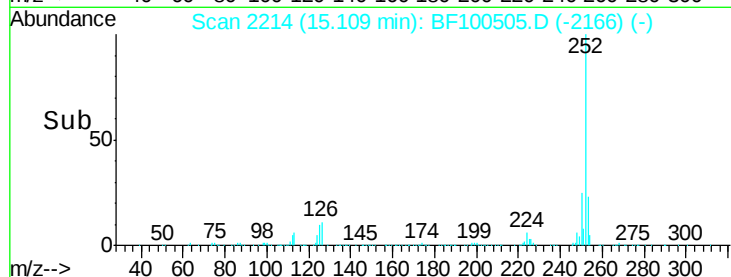
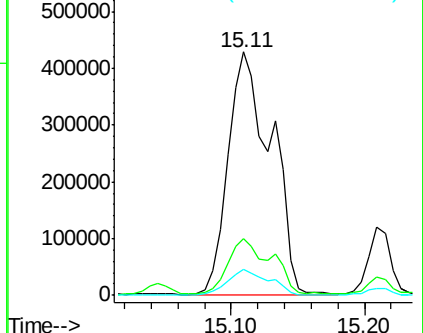
#88
Benzo(k)fluoranthene
Concen: 100.50 ng
RT: 15.11 min Scan# 2214
Delta R.T. -0.02 min
Lab File: BF100505.D
Acq: 13 Nov 2017 16:23

Instrument :
BNA_F
ClientSampleId :
JC-02-110917-C

Tgt Ion:252 Resp: 965081
Ion Ratio Lower Upper
252 100
253 23.3 17.9 26.9
125 10.6 10.2 15.2

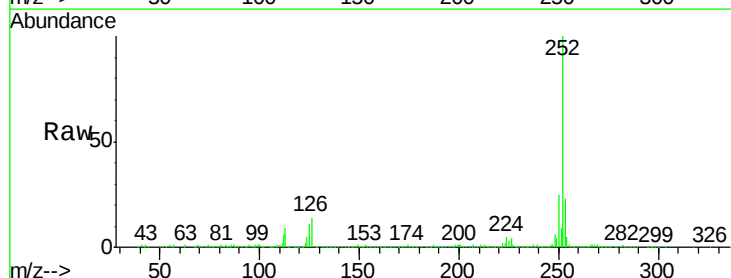


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

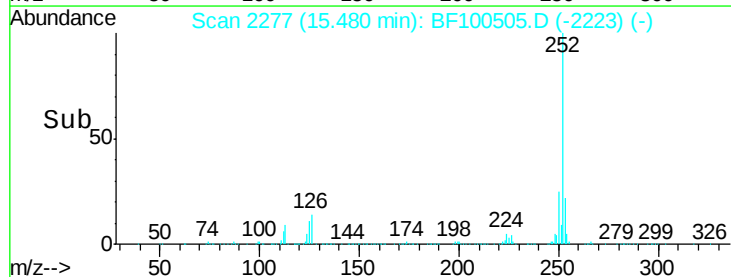
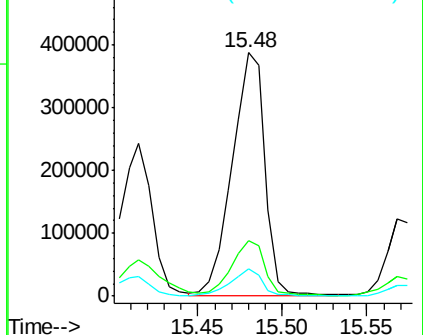


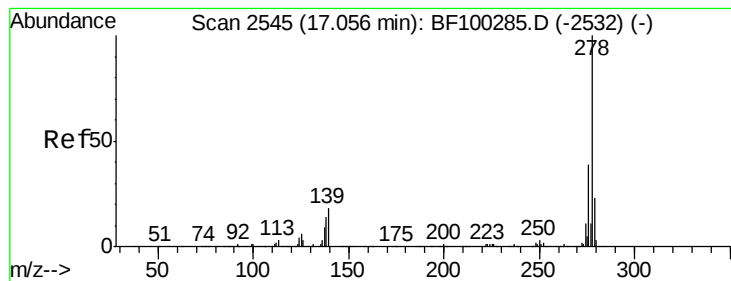
#89
Benzo(a)pyrene
Concen: 57.55 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.02 min
Lab File: BF100505.D
Acq: 13 Nov 2017 16:23

Tgt Ion:252 Resp: 518474
Ion Ratio Lower Upper
252 100
253 23.0 17.1 25.7
125 11.2 9.8 14.6



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





#90

Dibenzo(a,h)anthracene

Concen: 9.60 ng

RT: 17.04 min Scan# 2542

Delta R.T. 0.01 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

Instrument :

BNA_F

ClientSampleId :

JC-02-110917-C

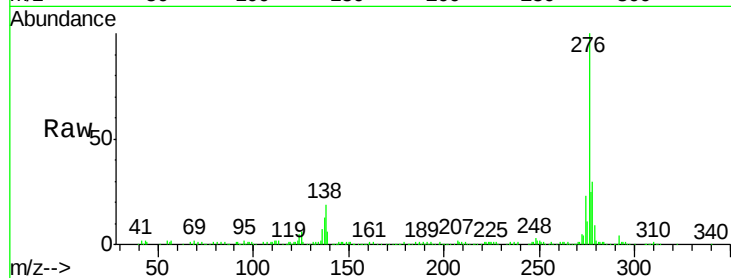
Tgt Ion:278 Resp: 70760

Ion Ratio Lower Upper

278 100

139 18.6 15.9 23.9

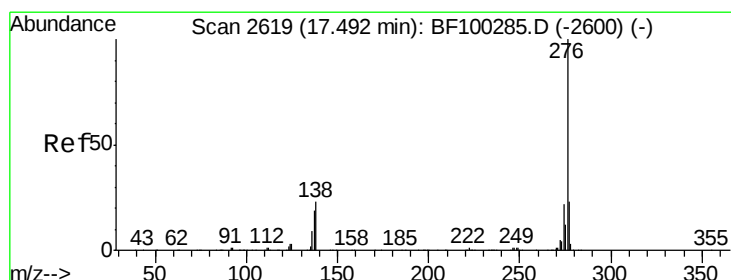
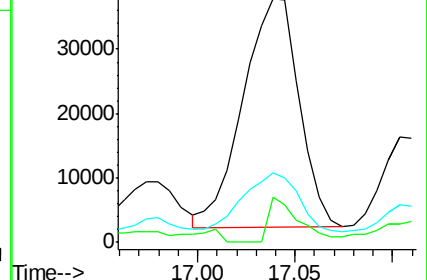
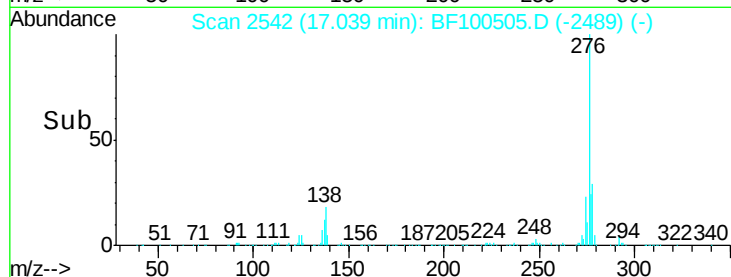
279 28.3 19.0 28.4



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: 31.97 ng

RT: 17.49 min Scan# 2618

Delta R.T. 0.02 min

Lab File: BF100505.D

Acq: 13 Nov 2017 16:23

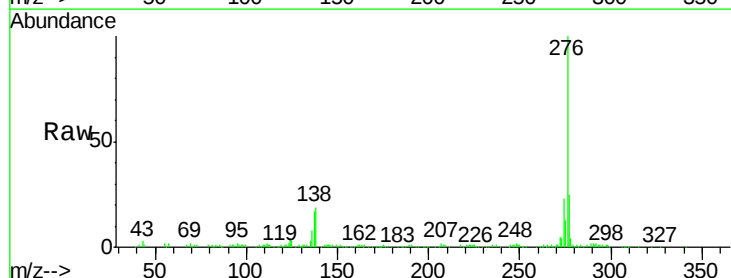
Tgt Ion:276 Resp: 230629

Ion Ratio Lower Upper

276 100

277 25.3 17.9 26.9

138 19.4 21.8 32.8#



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

