

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041715\
 Data File : BF078633.D
 Acq On : 18 Apr 2015 9:30
 Operator : TP/IZ
 Sample : G1880-03 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S2-1-4

Quant Time: Apr 20 00:57:42 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Apr 18 05:04:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	37830	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	164370	20.00	ng	0.00
38) Acenaphthene-d10	10.41	164	87466	20.00	ng	0.00
63) Phenanthrene-d10	12.23	188	183952	20.00	ng	0.01
75) Chrysene-d12	15.49	240	170735	20.00	ng	0.02
86) Perylene-d12	17.17	264	198706	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.90	112	37101	16.17	ng	0.00
7) Phenol-d6	6.28	99	50241	17.47	ng	0.00
23) Nitrobenzene-d5	7.38	82	29598	10.91	ng	0.00
41) 2,4,6-Tribromophenol	11.38	330	14261	19.66	ng	0.00
44) 2-Fluorobiphenyl	9.60	172	74324	12.15	ng	0.00
78) Terphenyl-d14	14.21	244	95731	12.67	ng	0.00

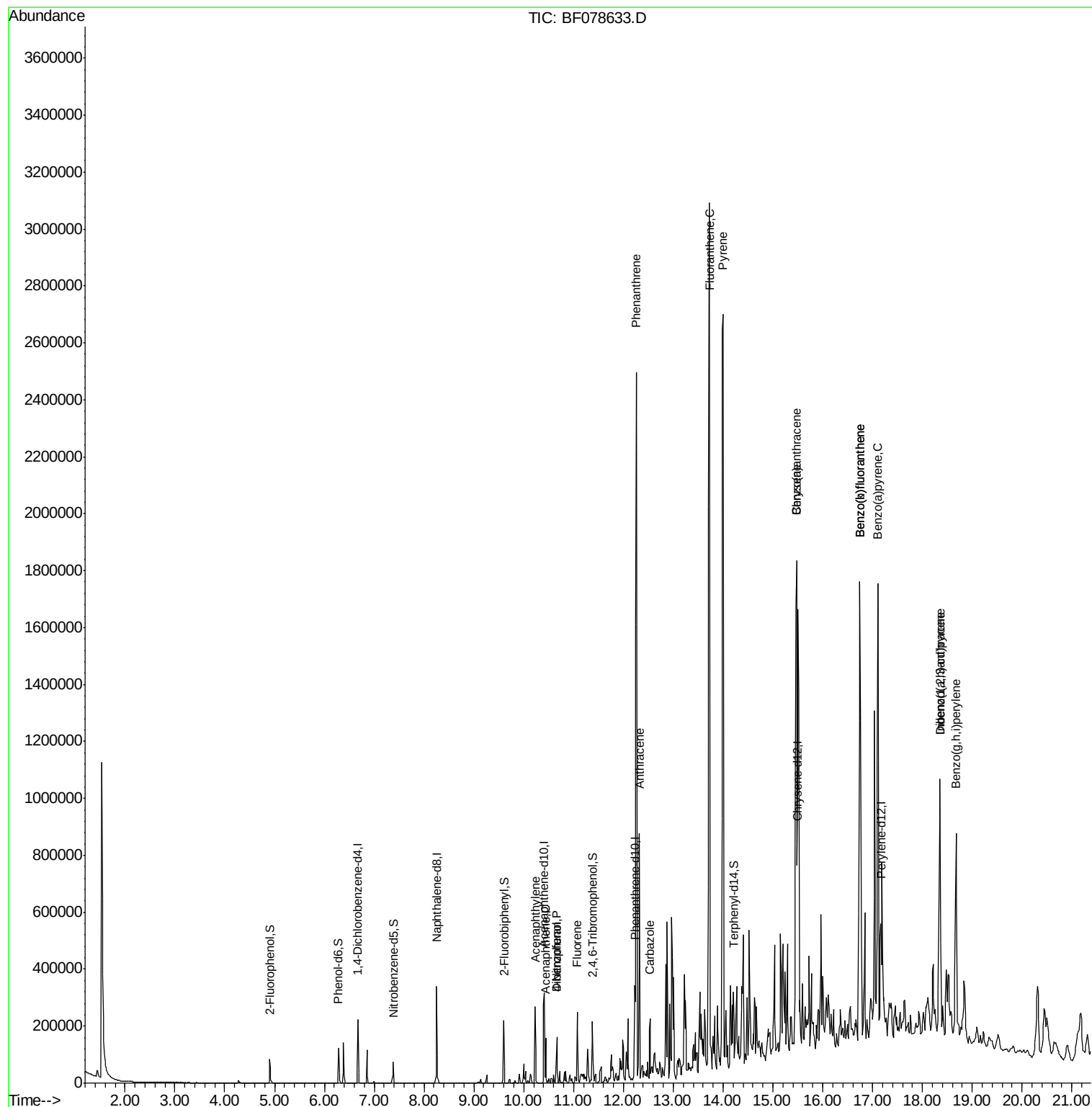
Target Compounds						Qvalue
48) Acenaphthylene	10.23	152	132998	14.63	ng	99
51) Acenaphthene	10.44	154	37873	7.40	ng	99
54) Dibenzofuran	10.66	168	74272	9.50	ng	95
55) 4-Nitrophenol	10.66	139	27566	26.28	ng	# 20
57) Fluorene	11.07	166	95044	15.00	ng	99
70) Phenanthrene	12.26	178	1234317	116.00	ng	97
71) Anthracene	12.32	178	386371	36.85	ng	100
72) Carbazole	12.54	167	116487	11.85	ng	98
74) Fluoranthene	13.73	202	1707893	152.20	ng	97
77) Pyrene	14.00	202	1589193	148.27	ng	96
80) Benzo(a)anthracene	15.47	228	1064977	104.84	ng	97
82) Chrysene	15.47	228	995854	104.34	ng	97
85) Indeno(1,2,3-cd)pyrene	18.35	276	604473	55.81	ng	# 90
87) Benzo(b)fluoranthene	16.74	252	1491463	121.45	ng	# 94
88) Benzo(k)fluoranthene	16.74	252	1508643	138.24	ng	96
89) Benzo(a)pyrene	17.11	252	805240	75.13	ng	# 93
90) Dibenzo(a,h)anthracene	18.35	278	153359	14.29	ng	# 91
91) Benzo(g,h,i)perylene	18.67	276	538340	50.04	ng	100

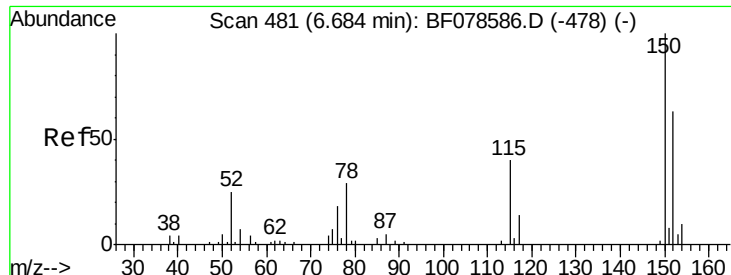
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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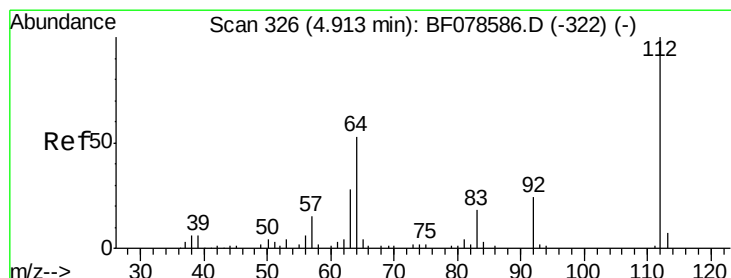
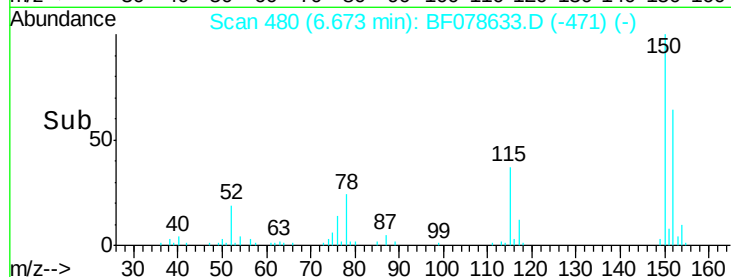
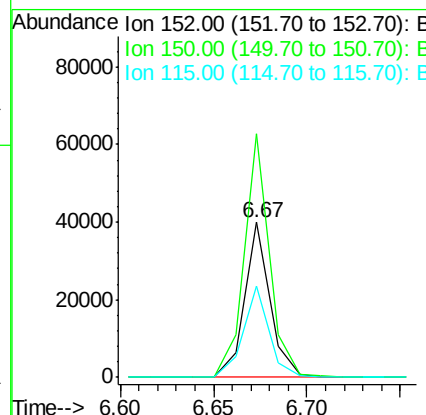
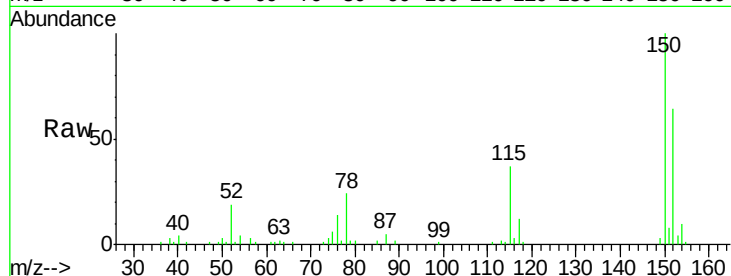




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.67 min Scan# 480
 Delta R.T. 0.00 min
 Lab File: BF078633.D
 Acq: 18 Apr 2015 9:30

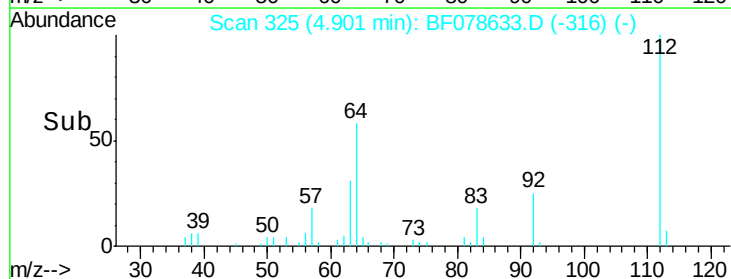
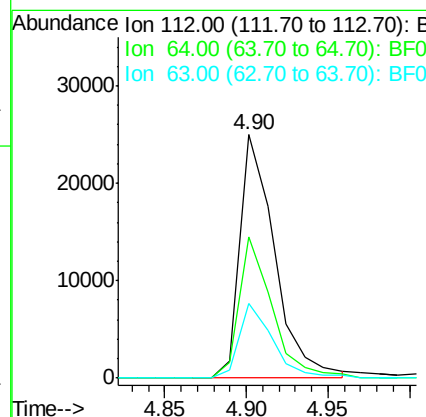
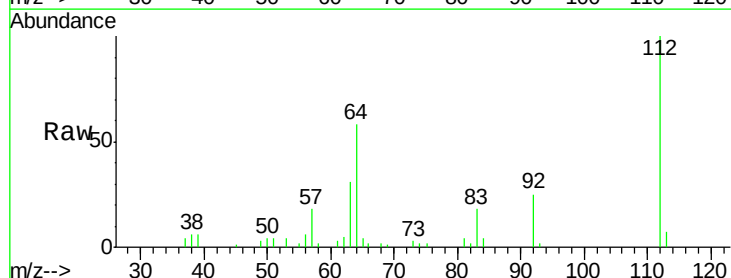
Instrument :
 BNA_F
 ClientSampleId :
 S2-1-4

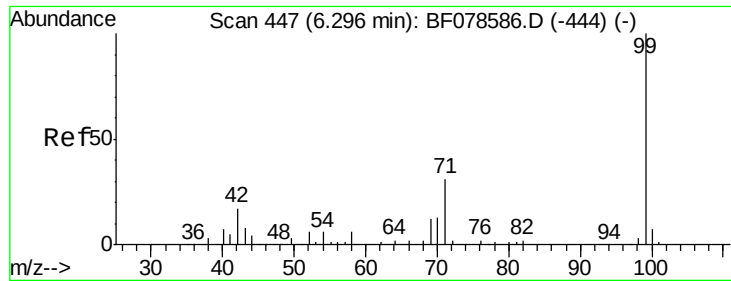
Tgt Ion:152 Resp: 37830
 Ion Ratio Lower Upper
 152 100
 150 157.0 125.9 188.9
 115 58.6 52.7 79.1



#5
 2-Fluorophenol
 Concen: 16.17 ng
 RT: 4.90 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: BF078633.D
 Acq: 18 Apr 2015 9:30

Tgt Ion:112 Resp: 37101
 Ion Ratio Lower Upper
 112 100
 64 58.0 39.9 59.9
 63 30.5 20.2 30.4#





#7

Phenol-d6

Concen: 17.47 ng

RT: 6.28 min Scan# 446

Delta R.T. 0.00 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampleId :

S2-1-4

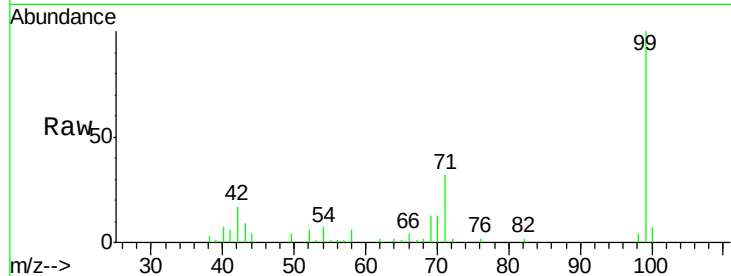
Tgt Ion: 99 Resp: 50241

Ion Ratio Lower Upper

99 100

42 17.1 14.8 22.2

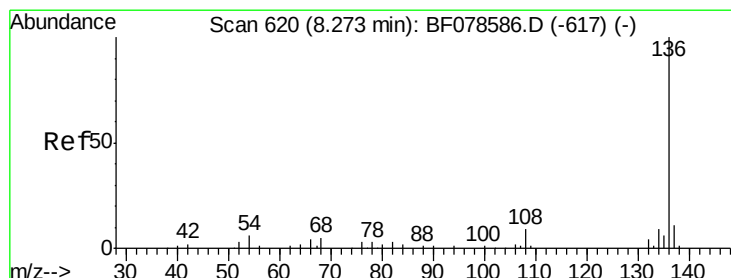
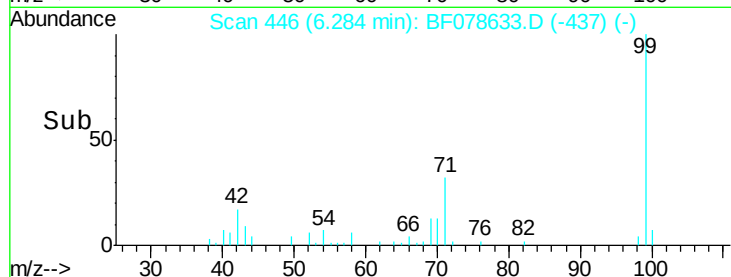
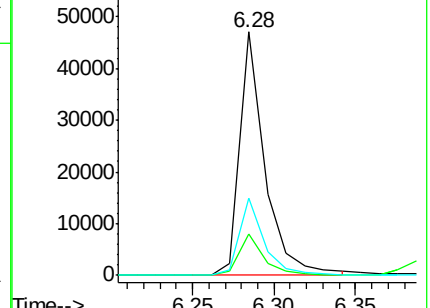
71 31.9 26.6 39.8



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.25 min Scan# 618

Delta R.T. 0.00 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Tgt Ion: 136 Resp: 164370

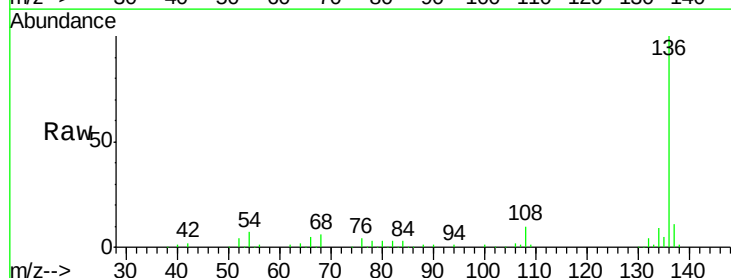
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.4

54 7.4 7.0 10.6

68 5.7 5.4 8.2

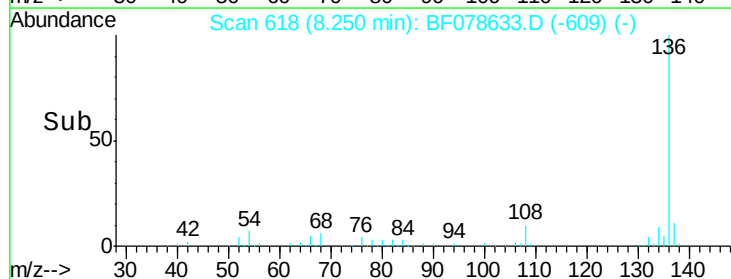
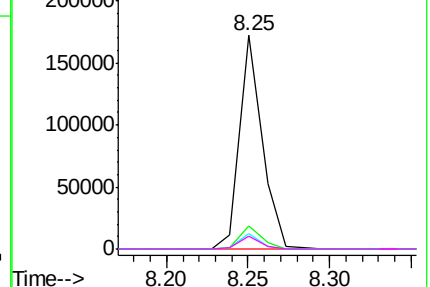


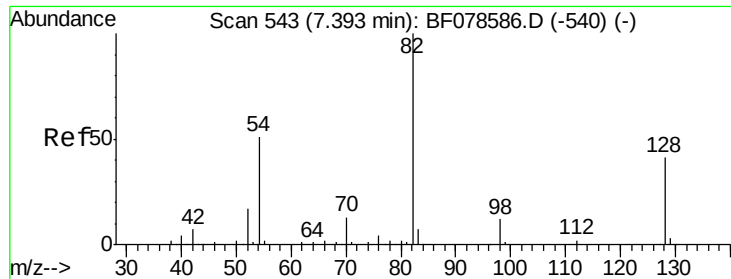
Abundance Ion 136.00 (135.70 to 136.70): E

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

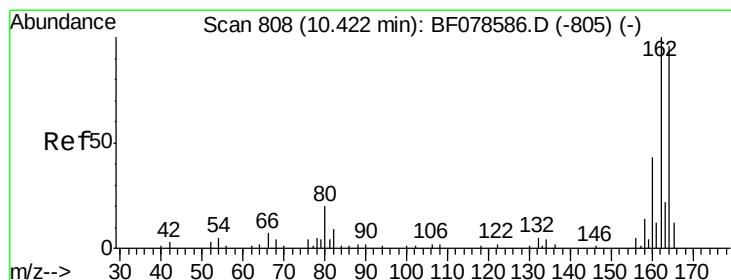
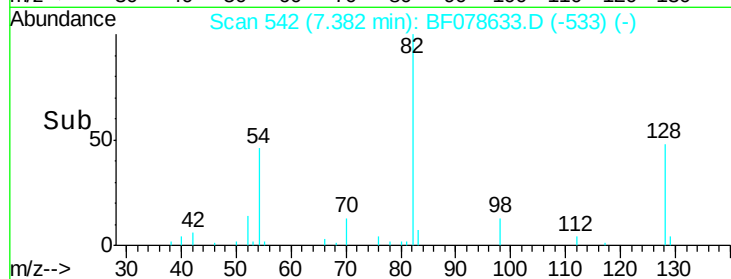
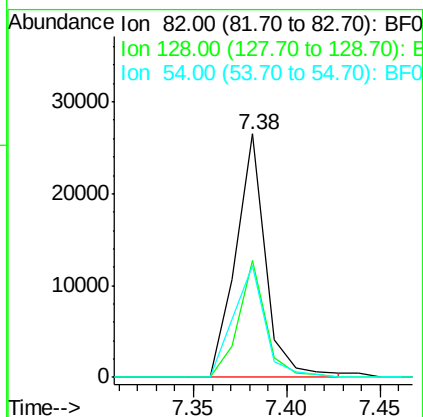
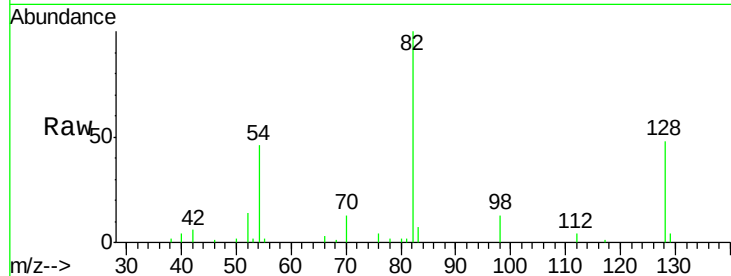




#23
 Nitrobenzene-d5
 Concen: 10.91 ng
 RT: 7.38 min Scan# 542
 Delta R.T. 0.00 min
 Lab File: BF078633.D
 Acq: 18 Apr 2015 9:30

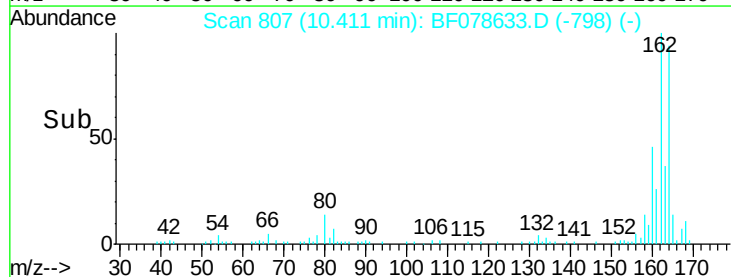
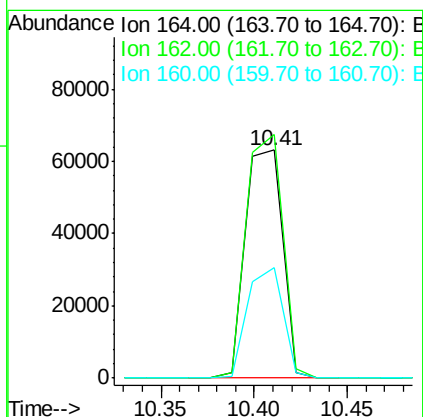
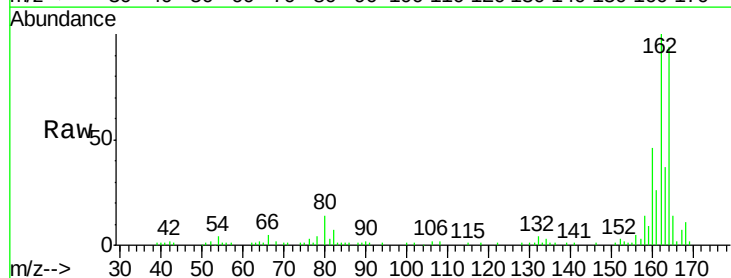
Instrument :
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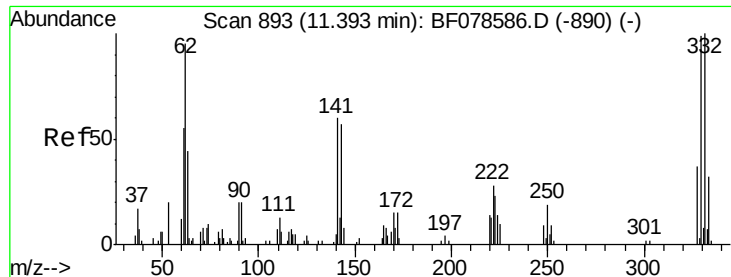
Tgt Ion: 82 Resp: 29598
 Ion Ratio Lower Upper
 82 100
 128 48.1 31.8 47.8#
 54 45.8 41.5 62.3



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.41 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: BF078633.D
 Acq: 18 Apr 2015 9:30

Tgt Ion: 164 Resp: 87466
 Ion Ratio Lower Upper
 164 100
 162 106.7 82.2 123.2
 160 48.7 34.7 52.1

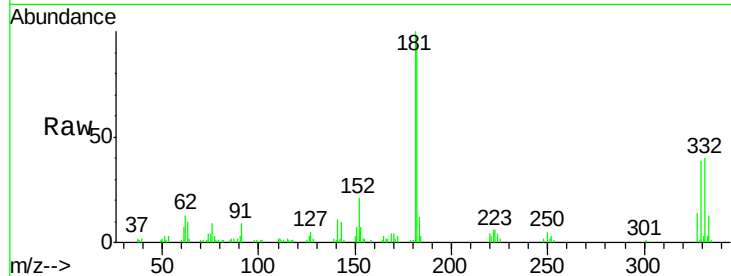




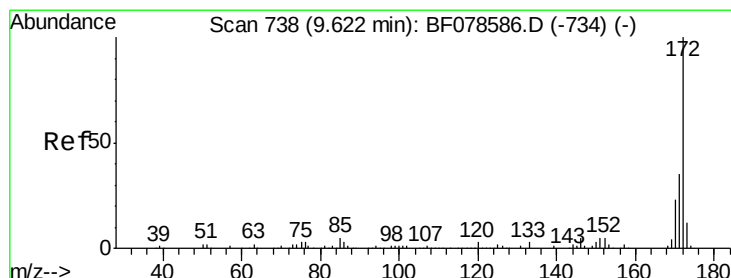
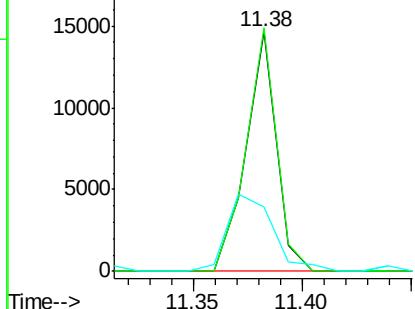
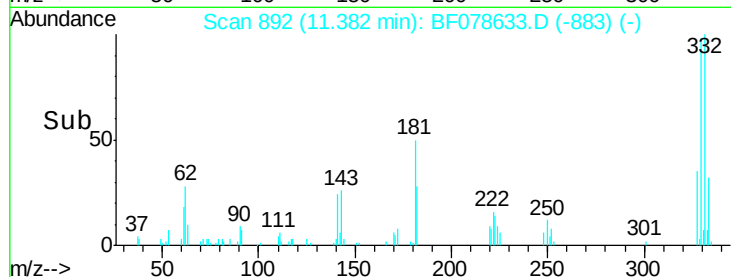
#41
 2,4,6-Tribromophenol
 Concen: 19.66 ng
 RT: 11.38 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: BF078633.D
 Acq: 18 Apr 2015 9:30

Instrument :
 BNA_F
 ClientSampleId :
 S2-1-4

Tgt Ion: 330 Resp: 14261
 Ion Ratio Lower Upper
 330 100
 332 100.9 78.6 117.8
 141 48.5 31.2 46.8#

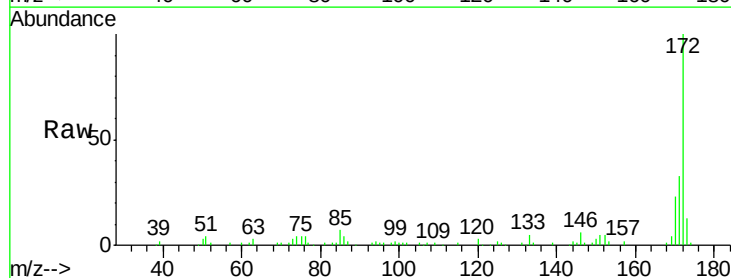


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

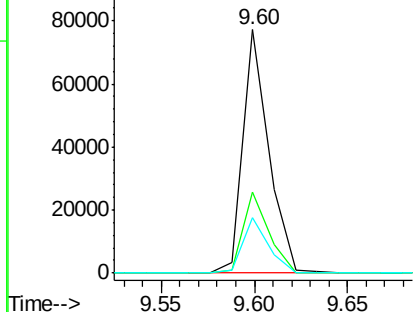
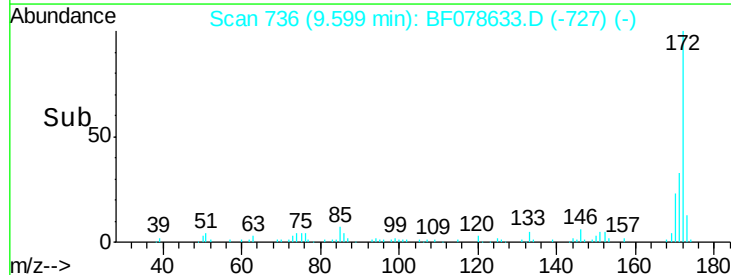


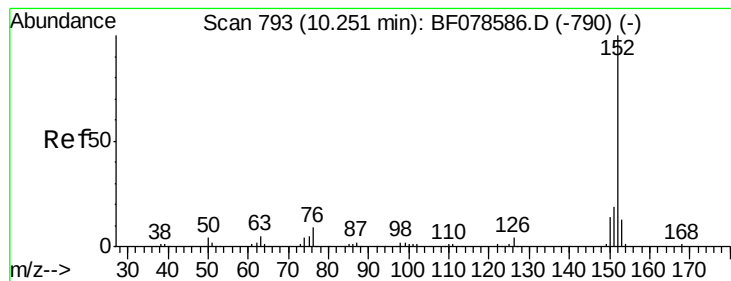
#44
 2-Fluorobiphenyl
 Concen: 12.15 ng
 RT: 9.60 min Scan# 736
 Delta R.T. 0.00 min
 Lab File: BF078633.D
 Acq: 18 Apr 2015 9:30

Tgt Ion: 172 Resp: 74324
 Ion Ratio Lower Upper
 172 100
 171 33.4 28.6 42.8
 170 22.6 18.5 27.7



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





#48

Acenaphthylene

Concen: 14.63 ng

RT: 10.23 min Scan# 791

Delta R.T. 0.00 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampleId :

S2-1-4

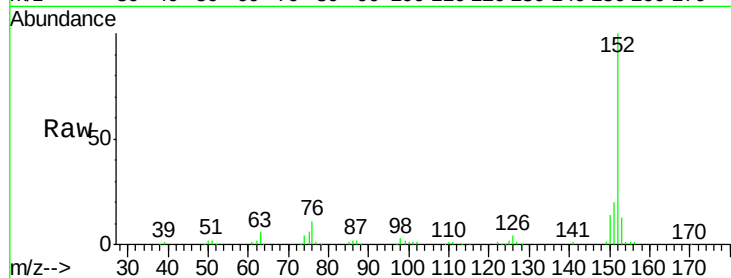
Tgt Ion:152 Resp: 132998

Ion Ratio Lower Upper

152 100

151 19.5 15.7 23.5

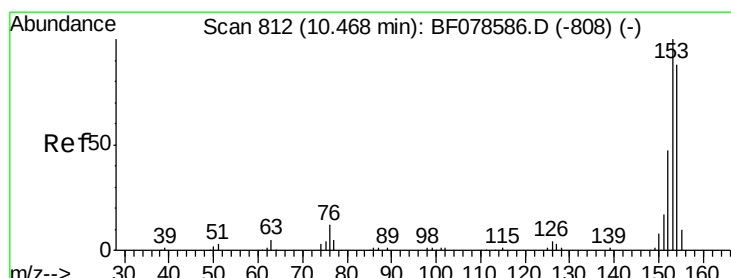
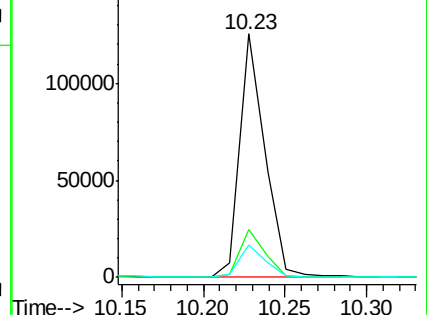
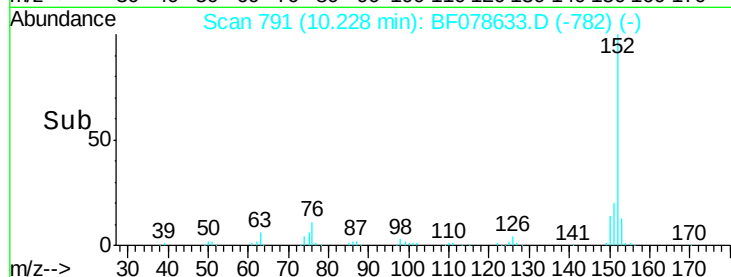
153 13.2 10.2 15.2



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



#51

Acenaphthene

Concen: 7.40 ng

RT: 10.44 min Scan# 810

Delta R.T. 0.00 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

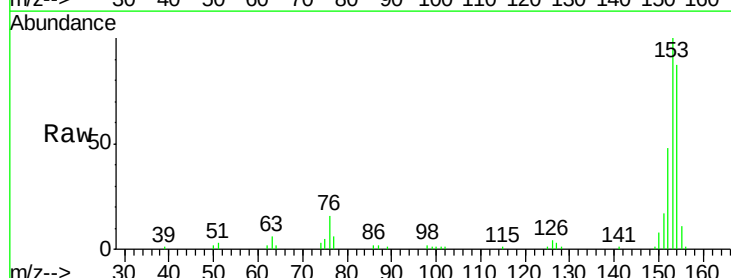
Tgt Ion:154 Resp: 37873

Ion Ratio Lower Upper

154 100

153 115.3 91.4 137.2

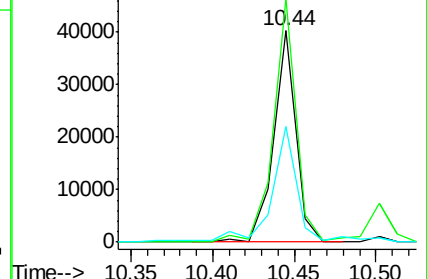
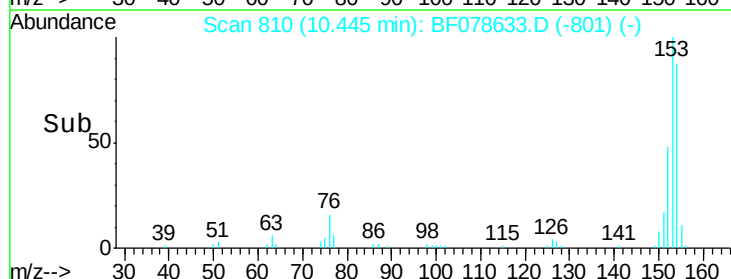
152 54.9 43.0 64.6

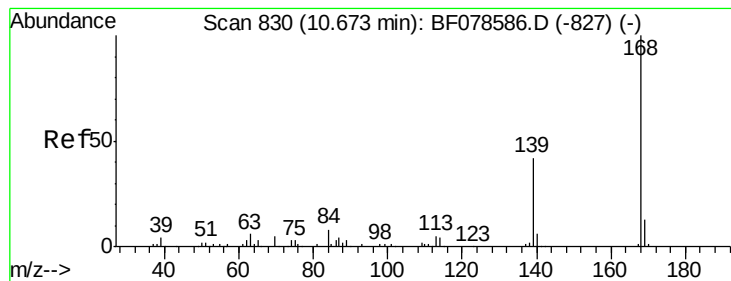


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 9.50 ng

RT: 10.66 min Scan# 829

Delta R.T. 0.00 min

Lab File: BF078633.D

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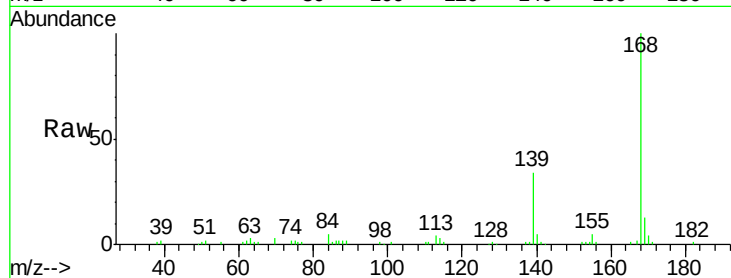
Tgt Ion:168 Resp: 74272

Ion Ratio Lower Upper

168 100

139 34.4 31.0 46.4

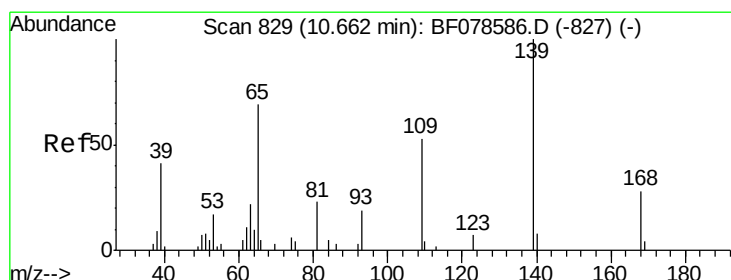
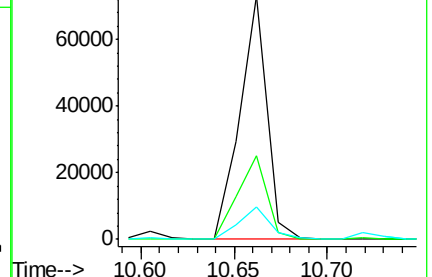
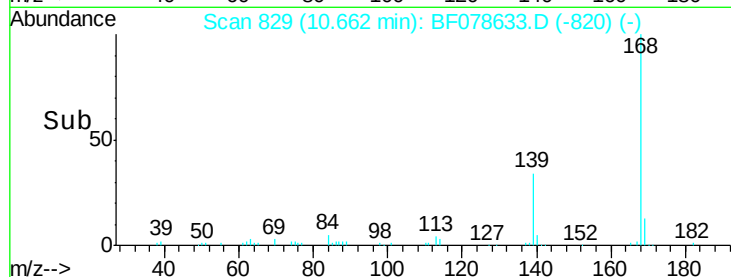
169 13.1 10.7 16.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 26.28 ng

RT: 10.66 min Scan# 829

Delta R.T. 0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

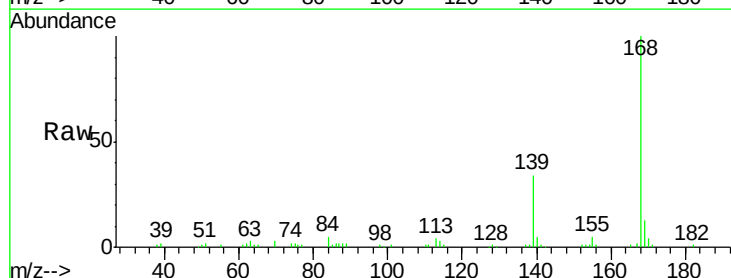
Tgt Ion:139 Resp: 27566

Ion Ratio Lower Upper

139 100

109 0.0 36.7 76.7#

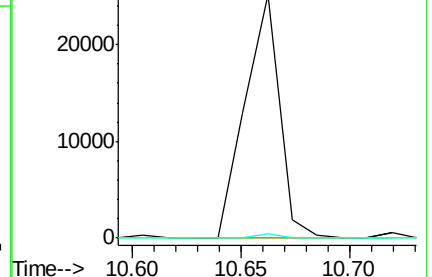
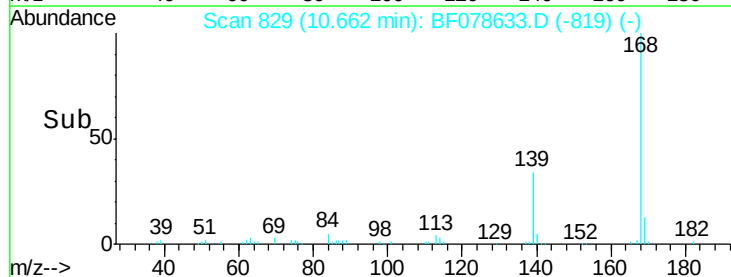
65 1.9 49.9 89.9#

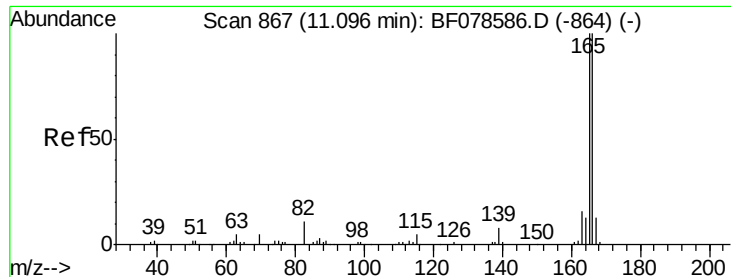


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

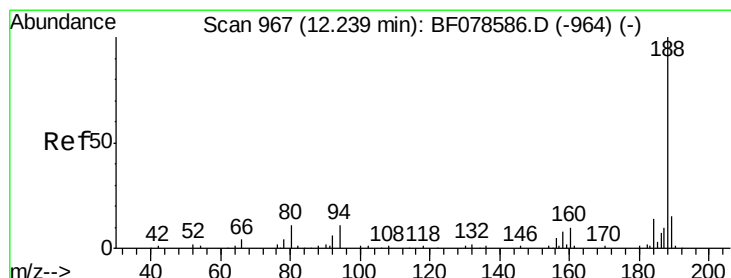
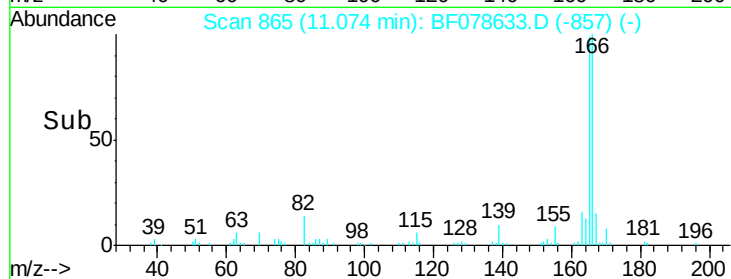
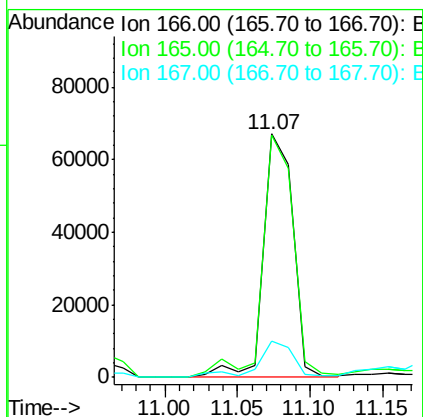
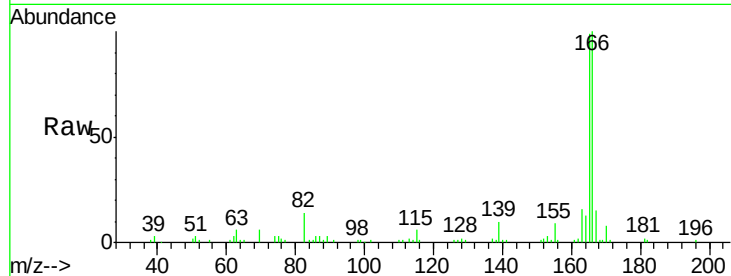




#57
 Fluorene
 Concen: 15.00 ng
 RT: 11.07 min Scan# 865
 Delta R.T. -0.01 min
 Lab File: BF078633.D
 Acq: 18 Apr 2015 9:30

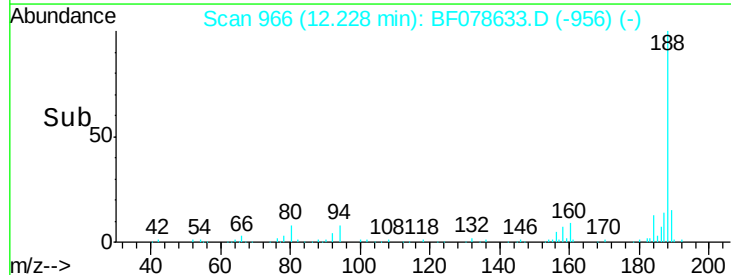
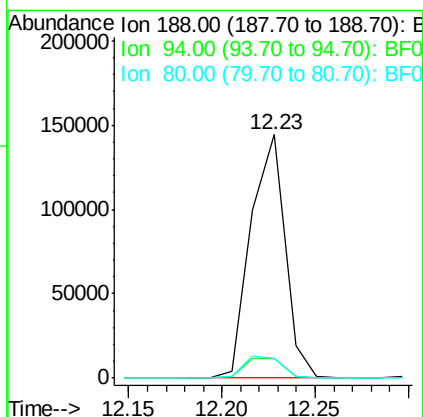
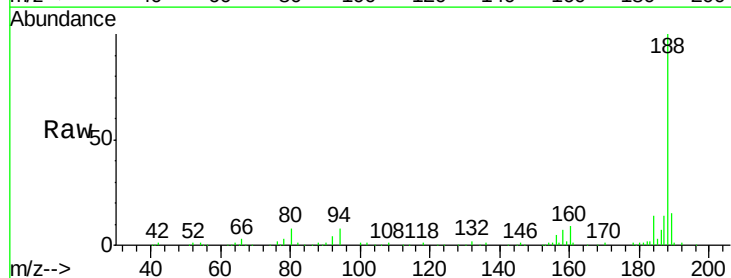
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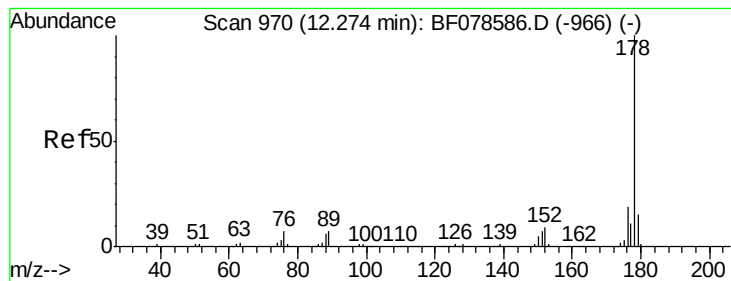
Tgt Ion:166 Resp: 95044
 Ion Ratio Lower Upper
 166 100
 165 99.5 78.9 118.3
 167 14.8 10.7 16.1



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.23 min Scan# 966
 Delta R.T. 0.01 min
 Lab File: BF078633.D
 Acq: 18 Apr 2015 9:30

Tgt Ion:188 Resp: 183952
 Ion Ratio Lower Upper
 188 100
 94 8.0 9.0 13.4#
 80 7.9 9.5 14.3#





#70

Phenanthrene

Concen: 116.00 ng

RT: 12.26 min Scan# 969

Delta R.T. 0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampled :

S2-1-4

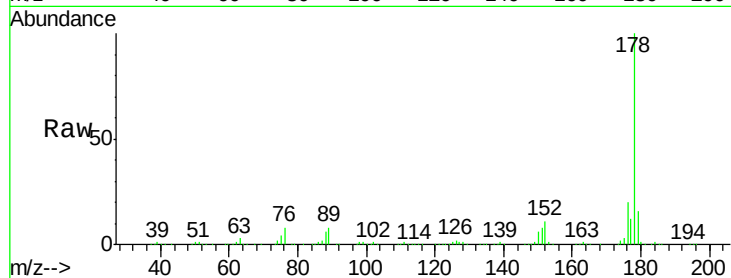
Tgt Ion:178 Resp: 1234317

Ion Ratio Lower Upper

178 100

176 20.5 15.4 23.0

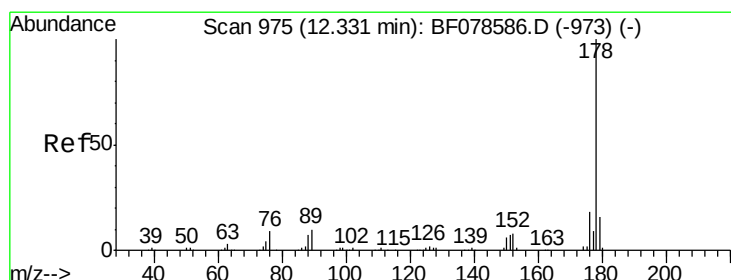
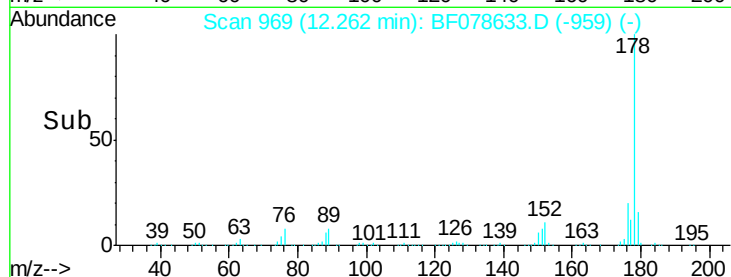
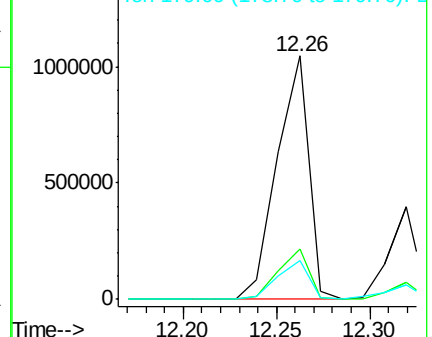
179 16.1 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 36.85 ng

RT: 12.32 min Scan# 974

Delta R.T. 0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

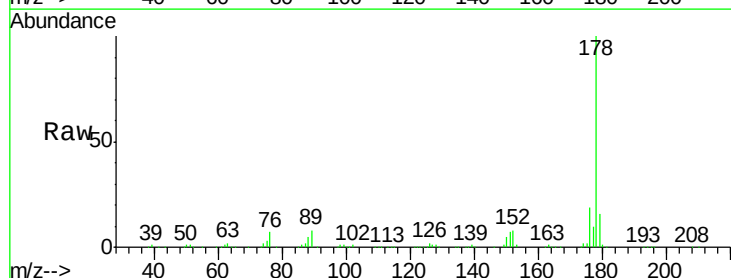
Tgt Ion:178 Resp: 386371

Ion Ratio Lower Upper

178 100

176 18.7 14.8 22.2

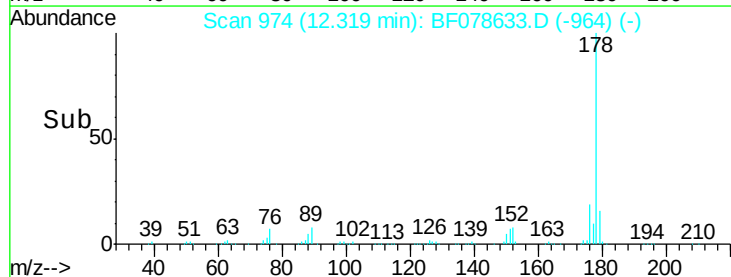
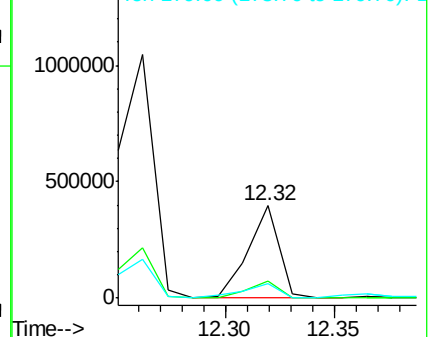
179 15.6 12.4 18.6

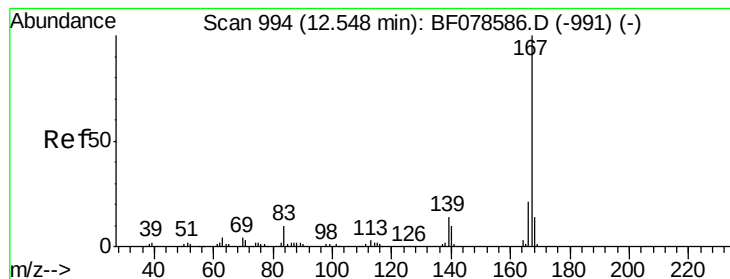


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 11.85 ng

RT: 12.54 min Scan# 993

Delta R.T. 0.00 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampleId :

S2-1-4

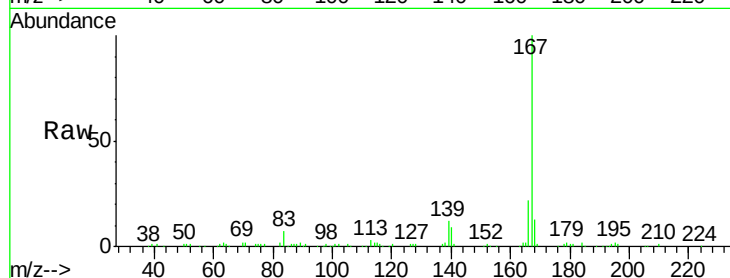
Tgt Ion:167 Resp: 116487

Ion Ratio Lower Upper

167 100

166 21.5 16.8 25.2

139 11.6 10.0 15.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

120000

100000

80000

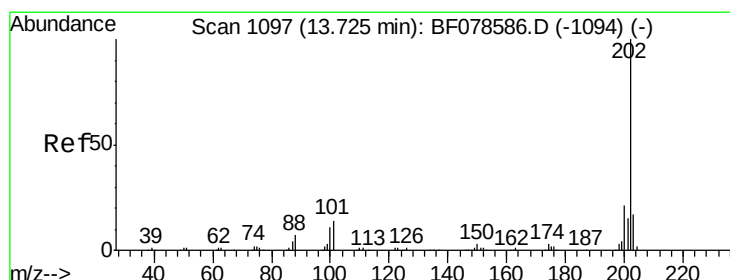
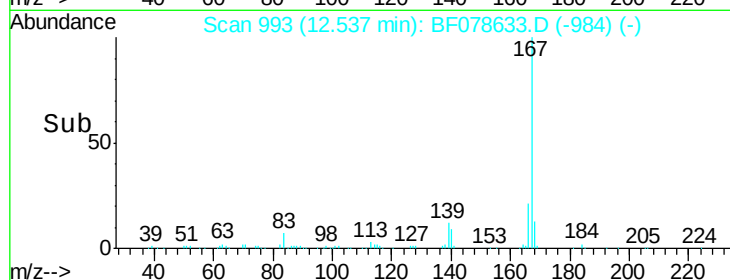
60000

40000

20000

0

Time--> 12.45 12.50 12.55 12.60



#74

Fluoranthene

Concen: 152.20 ng

RT: 13.73 min Scan# 1097

Delta R.T. 0.02 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

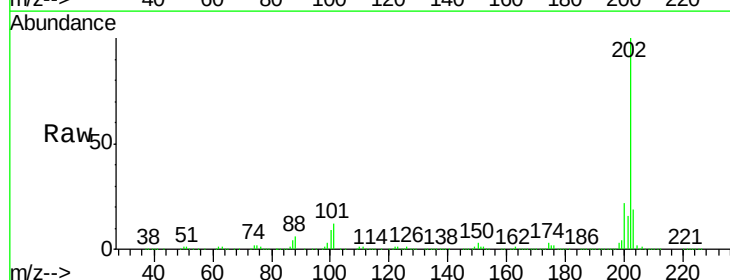
Tgt Ion:202 Resp: 1707893

Ion Ratio Lower Upper

202 100

101 12.4 0.0 35.2

203 18.6 0.0 38.5



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

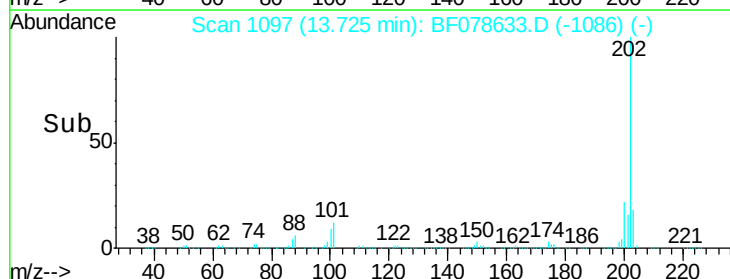
1500000

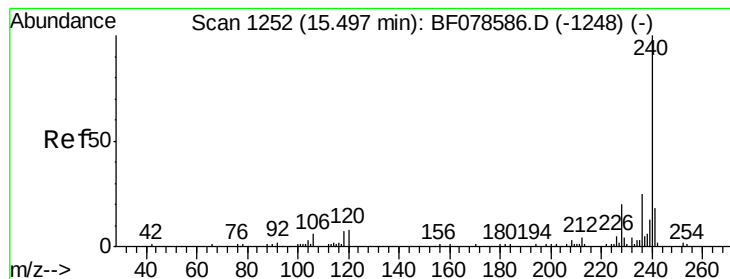
1000000

500000

0

Time--> 13.65 13.70 13.75 13.80





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.49 min Scan# 1251

Delta R.T. 0.02 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampleId :

S2-1-4

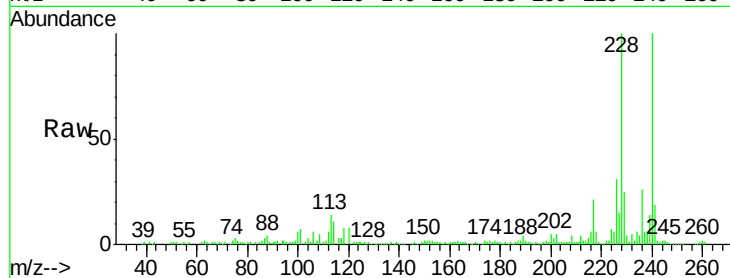
Tgt Ion:240 Resp: 170735

Ion Ratio Lower Upper

240 100

120 8.3 7.1 10.7

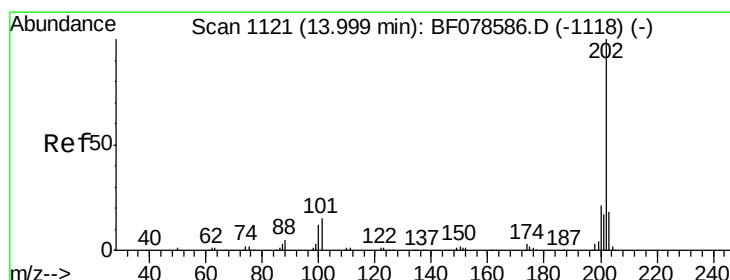
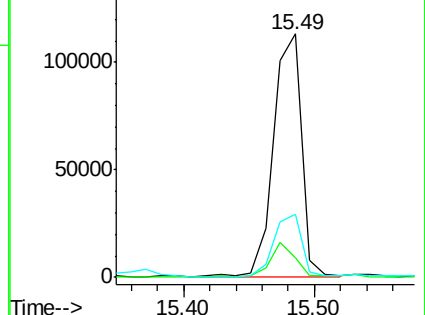
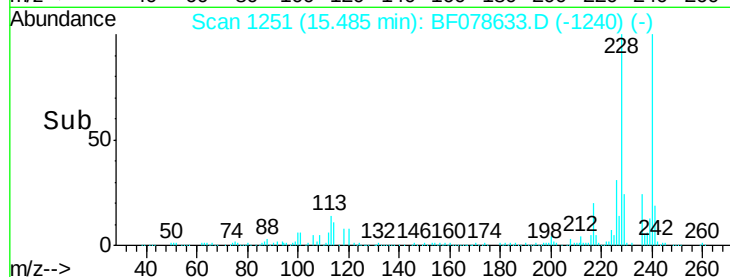
236 26.1 21.4 32.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 148.27 ng

RT: 14.00 min Scan# 1121

Delta R.T. 0.02 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

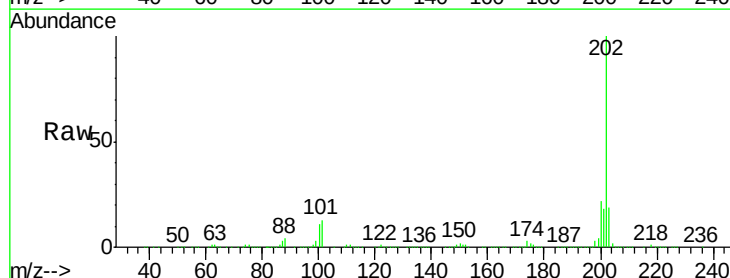
Tgt Ion:202 Resp: 1589193

Ion Ratio Lower Upper

202 100

200 22.4 16.3 24.5

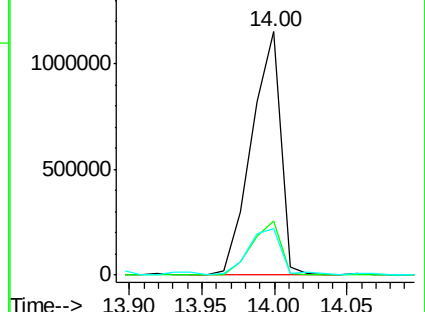
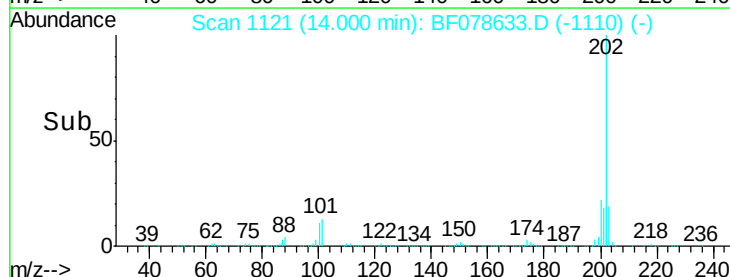
203 18.9 13.8 20.6

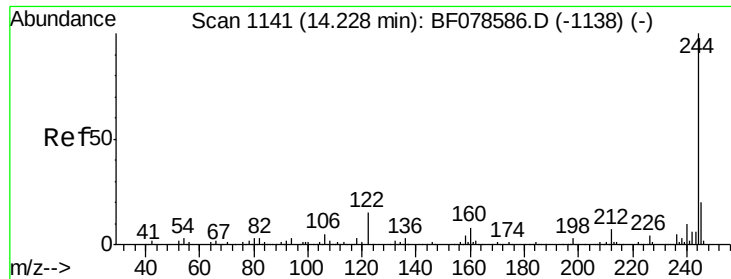


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 12.67 ng

RT: 14.21 min Scan# 1139

Delta R.T. 0.00 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampled :

S2-1-4

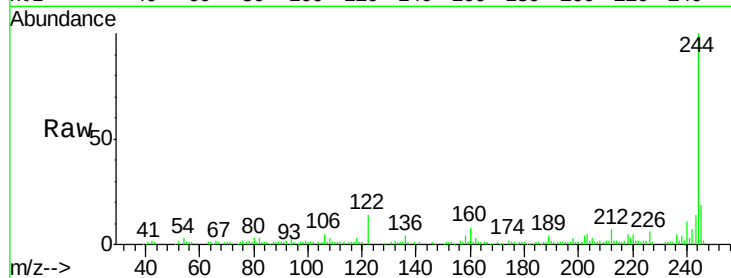
Tgt Ion:244 Resp: 95731

Ion Ratio Lower Upper

244 100

212 7.3 5.0 7.4

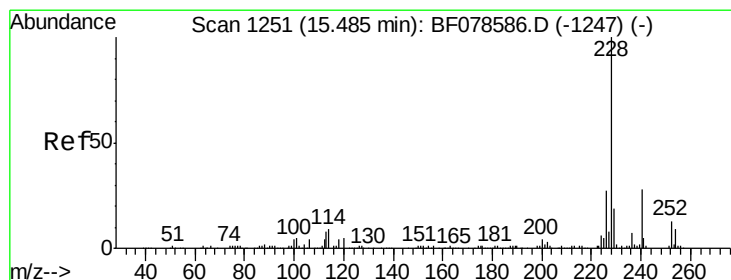
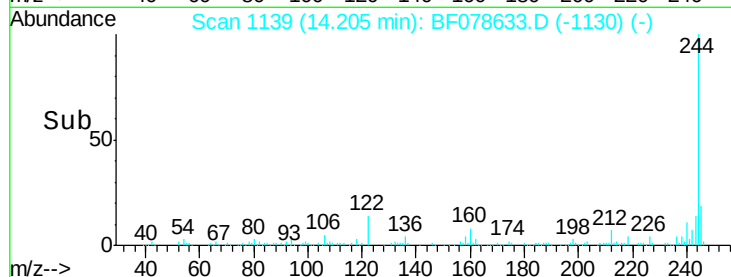
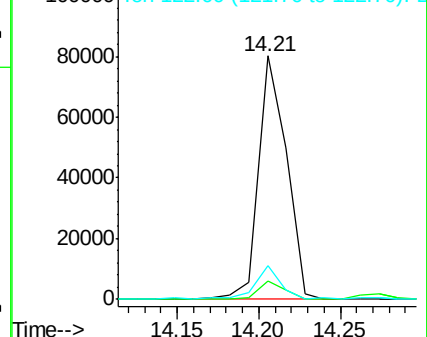
122 14.0 7.1 10.7#



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: 104.84 ng

RT: 15.47 min Scan# 1250

Delta R.T. 0.02 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

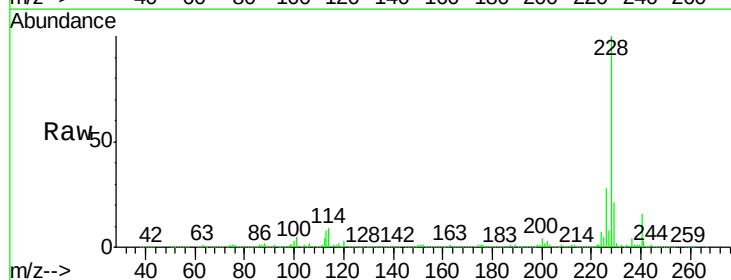
Tgt Ion:228 Resp: 1064977

Ion Ratio Lower Upper

228 100

226 28.3 21.3 31.9

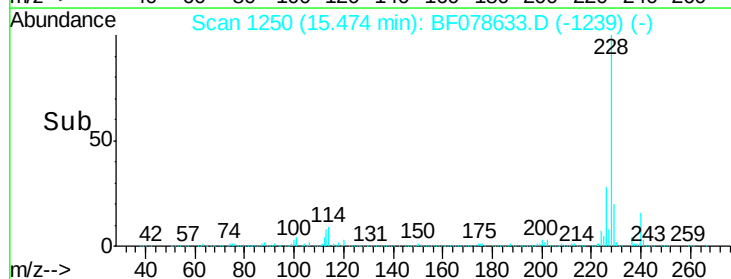
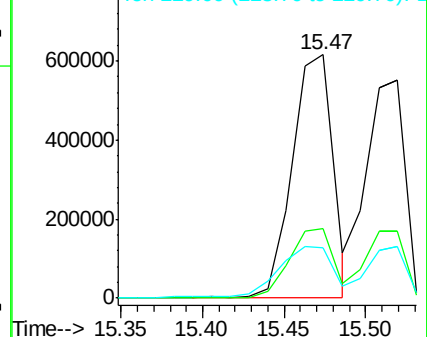
229 20.7 15.4 23.2

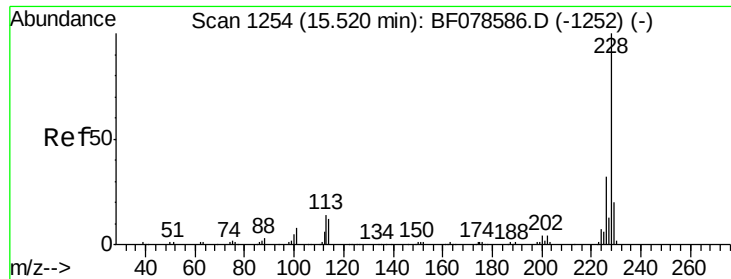


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 104.34 ng

RT: 15.47 min Scan# 1250

Delta R.T. -0.02 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampled :

S2-1-4

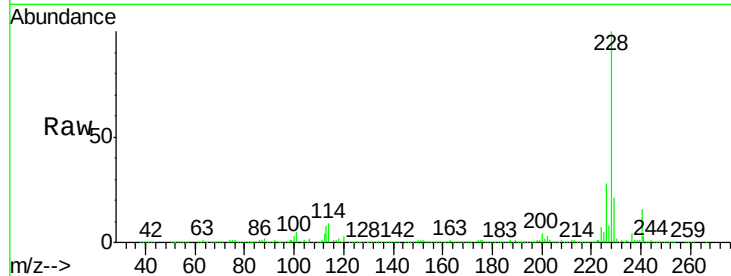
Tgt Ion:228 Resp: 995854

Ion Ratio Lower Upper

228 100

226 28.3 24.2 36.4

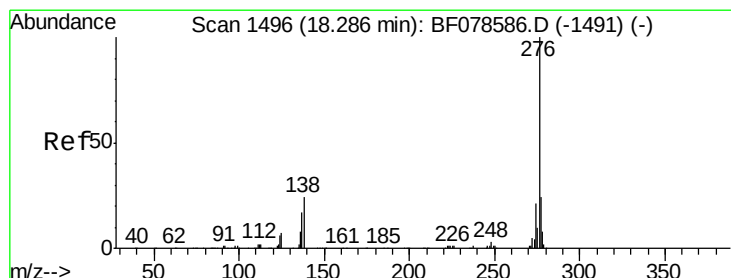
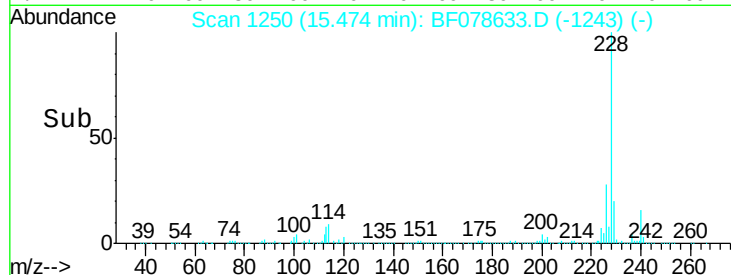
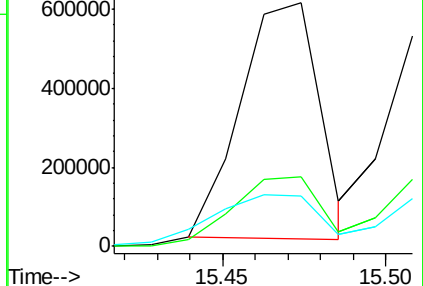
229 20.7 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 55.81 ng

RT: 18.35 min Scan# 1502

Delta R.T. 0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

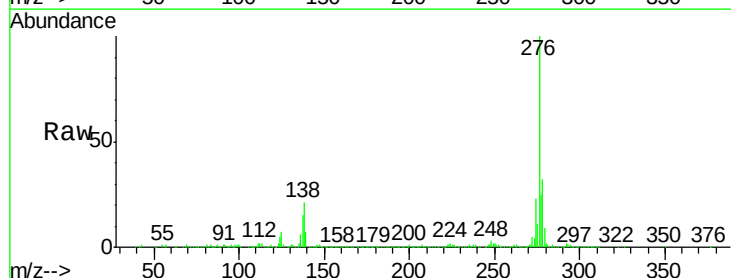
Tgt Ion:276 Resp: 604473

Ion Ratio Lower Upper

276 100

138 24.4 16.9 25.3

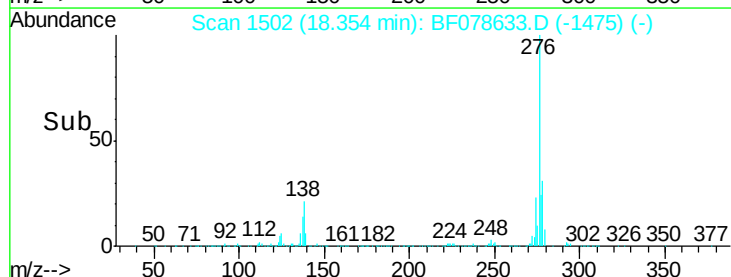
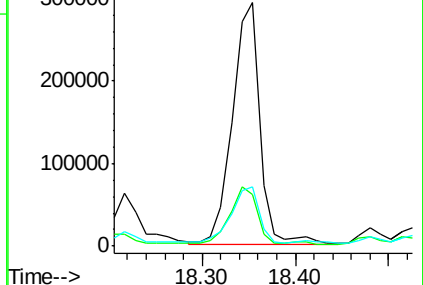
277 25.8 15.8 23.6#

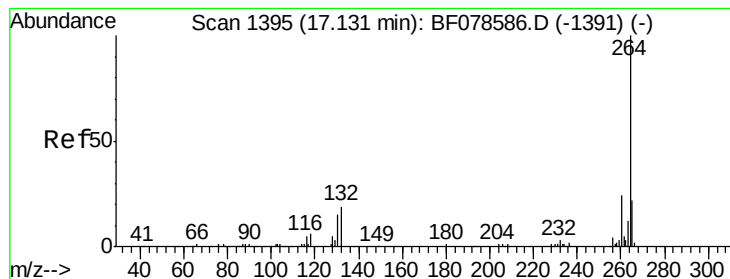


Abundance Ion 276.00 (275.70 to 276.70): E

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: 17.17 min Scan# 1398

Delta R.T. 0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampleId :

S2-1-4

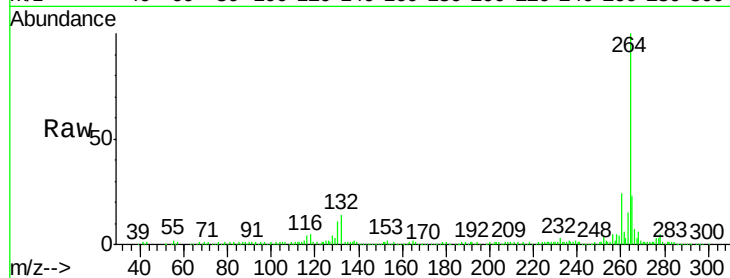
Tgt Ion:264 Resp: 198706

Ion Ratio Lower Upper

264 100

260 23.7 18.6 27.8

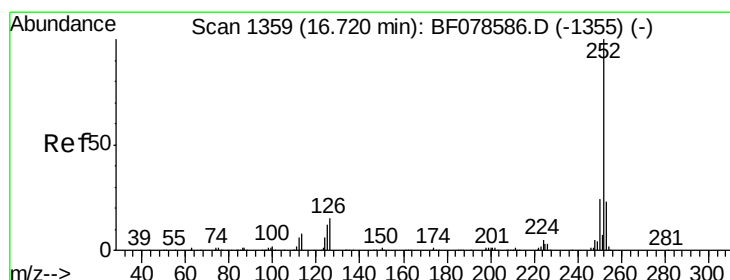
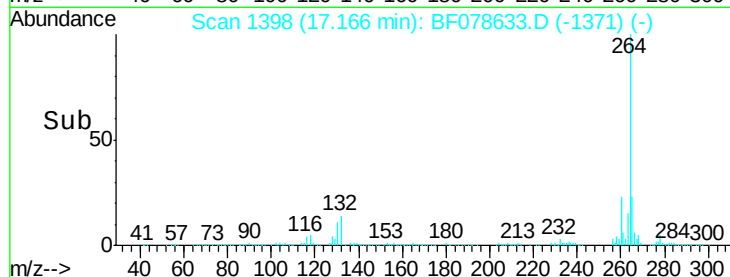
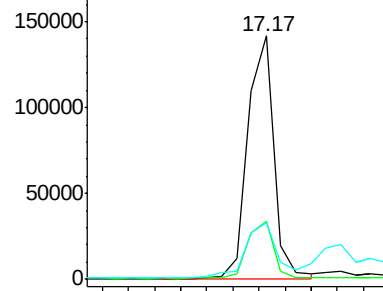
265 23.3 17.0 25.6



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: 121.45 ng

RT: 16.74 min Scan# 1361

Delta R.T. 0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

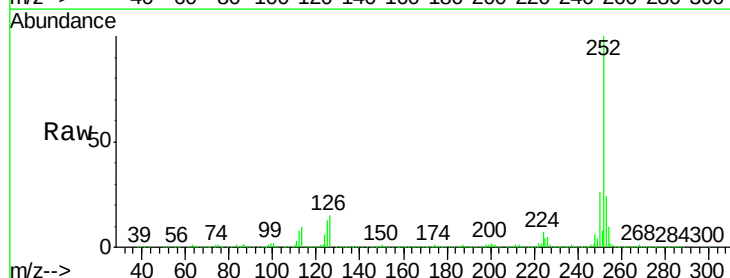
Tgt Ion:252 Resp: 1491463

Ion Ratio Lower Upper

252 100

253 23.6 17.2 25.8

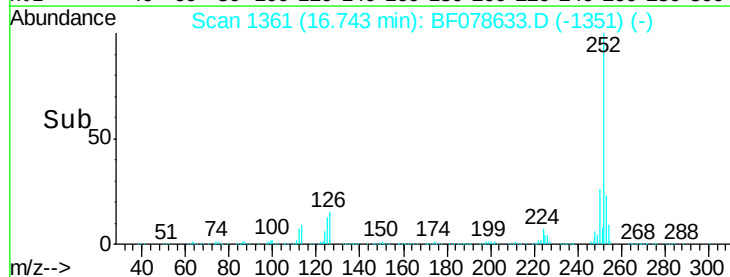
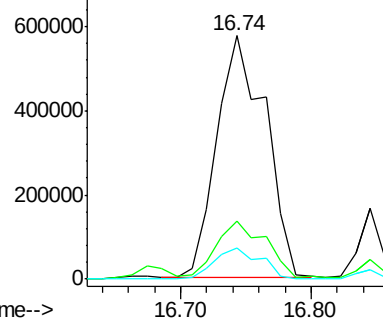
125 12.7 7.0 10.4#

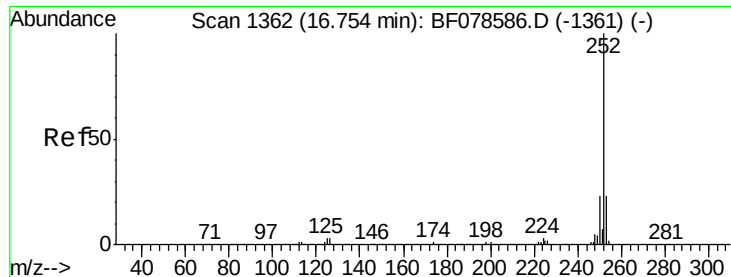


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 138.24 ng

RT: 16.74 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampleId :

S2-1-4

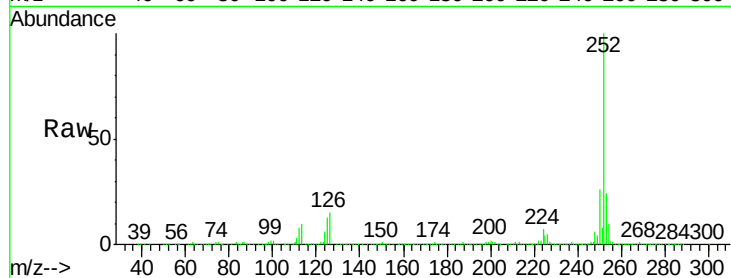
Tgt Ion:252 Resp: 1508643

Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

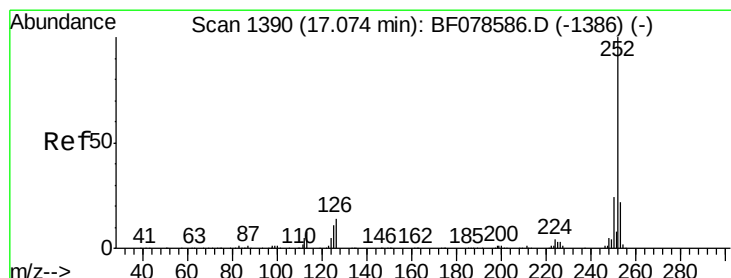
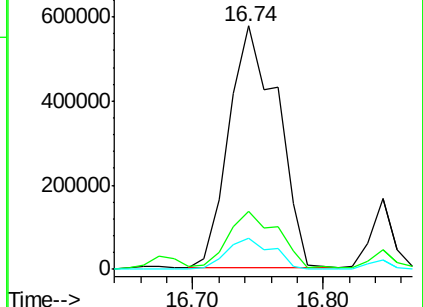
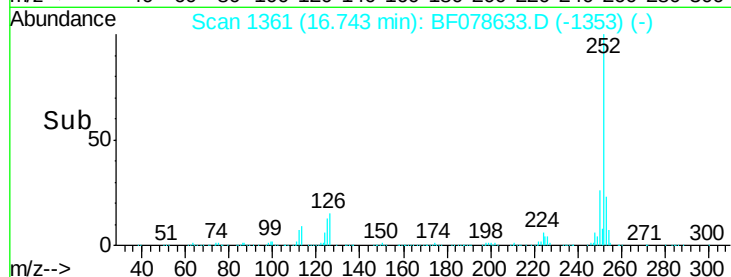
125 12.7 11.6 17.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 75.13 ng

RT: 17.11 min Scan# 1393

Delta R.T. 0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

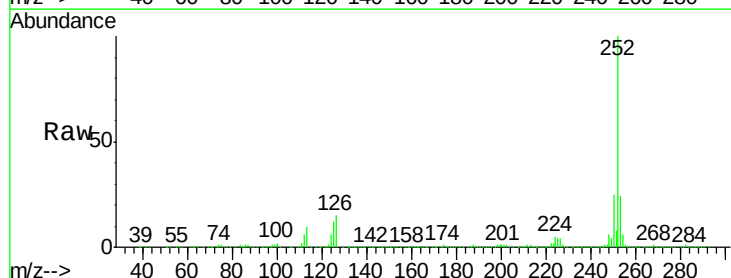
Tgt Ion:252 Resp: 805240

Ion Ratio Lower Upper

252 100

253 24.1 16.8 25.2

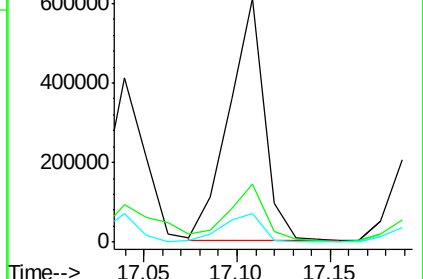
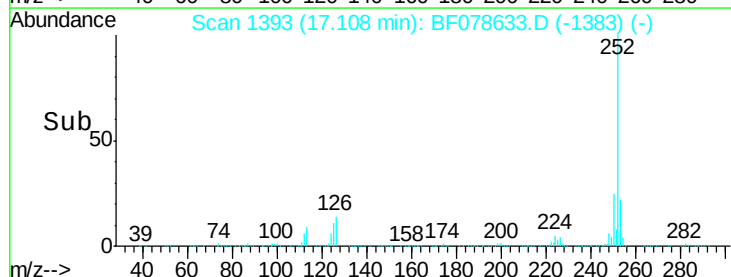
125 11.7 7.4 11.0#

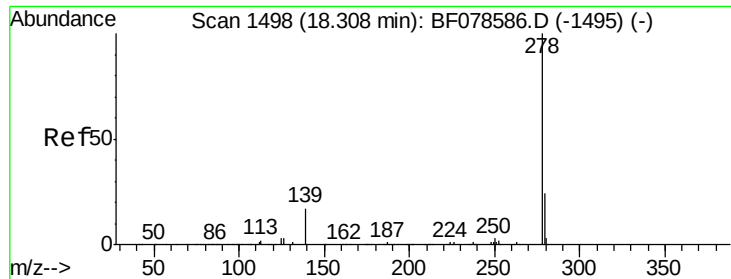


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 14.29 ng

RT: 18.35 min Scan# 1502

Delta R.T. -0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

Instrument :

BNA_F

ClientSampleId :

S2-1-4

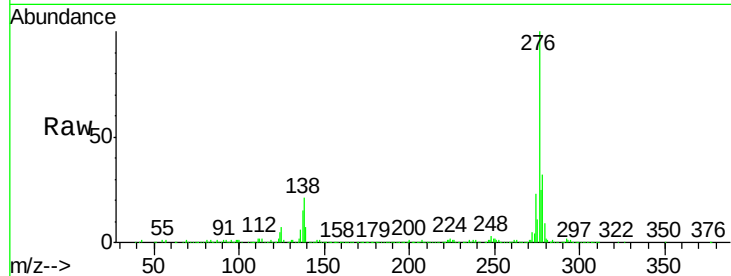
Tgt Ion: 278 Resp: 153359

Ion Ratio Lower Upper

278 100

139 20.8 13.6 20.4#

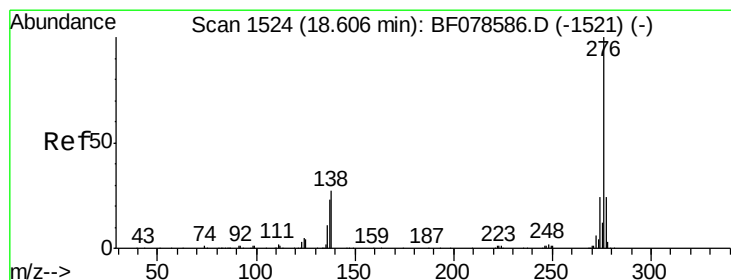
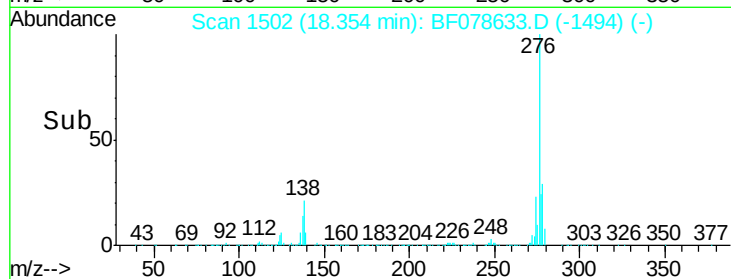
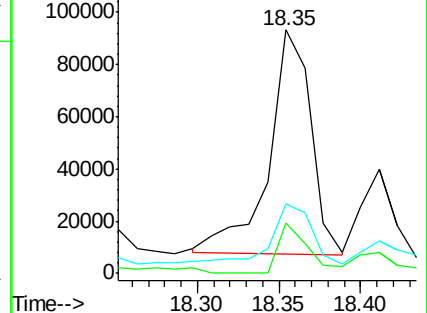
279 28.7 19.0 28.6#



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: 50.04 ng

RT: 18.67 min Scan# 1530

Delta R.T. 0.01 min

Lab File: BF078633.D

Acq: 18 Apr 2015 9:30

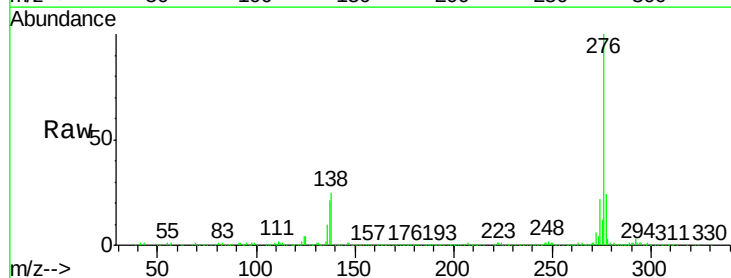
Tgt Ion: 276 Resp: 538340

Ion Ratio Lower Upper

276 100

277 23.9 19.0 28.4

138 24.6 19.9 29.9



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

