

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030415\  
 Data File : BF077604.D  
 Acq On : 5 Mar 2015 4:30  
 Operator : TP/IZ  
 Sample : G1424-03  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB18

Quant Time: Mar 05 05:14:42 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 04 21:51:23 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.22  | 152  | 70436    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.80  | 136  | 275529   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.97 | 164  | 138618   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.81 | 188  | 261720   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 16.10 | 240  | 290242   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 17.78 | 264  | 292555   | 20.00 | ng    | -0.07    |

|                             |       |     |        |        |    |      |
|-----------------------------|-------|-----|--------|--------|----|------|
| System Monitoring Compounds |       |     |        |        |    |      |
| 5) 2-Fluorophenol           | 5.52  | 112 | 465504 | 110.33 | ng | 0.00 |
| 7) Phenol-d6                | 6.79  | 99  | 557247 | 102.72 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.91  | 82  | 359715 | 81.19  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 11.95 | 330 | 144985 | 108.63 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 10.15 | 172 | 638024 | 71.77  | ng | 0.00 |
| 78) Terphenyl-d14           | 14.81 | 244 | 727252 | 58.58  | ng | 0.00 |

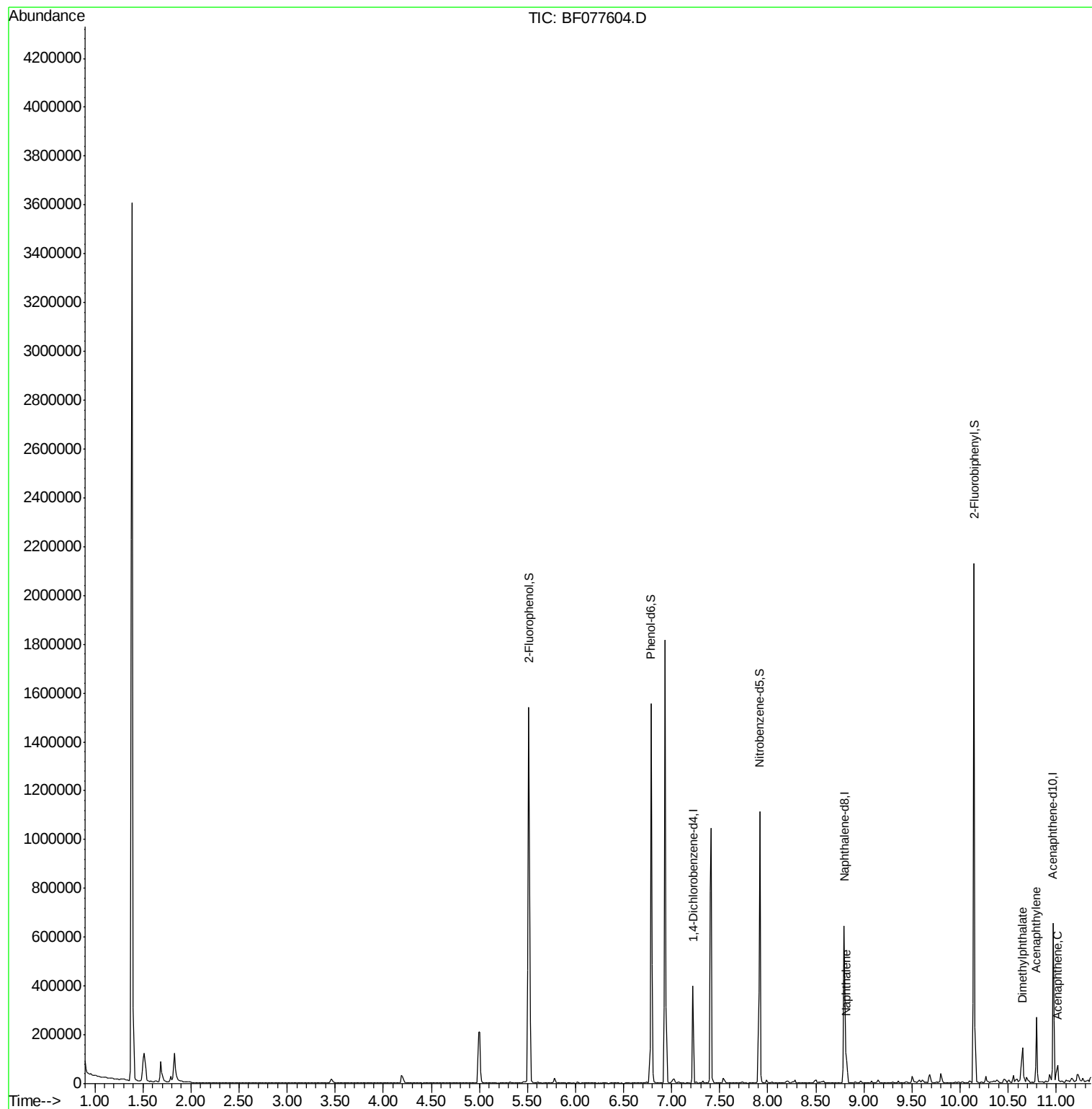
|                            |       |     |        |        |    |      |
|----------------------------|-------|-----|--------|--------|----|------|
| Target Compounds           |       |     |        | Qvalue |    |      |
| 31) Naphthalene            | 8.82  | 128 | 43819  | 3.18   | ng | 98   |
| 48) Acenaphthylene         | 10.80 | 152 | 119943 | 9.20   | ng | 99   |
| 49) Dimethylphthalate      | 10.65 | 163 | 52023  | 5.34   | ng | 100  |
| 51) Acenaphthene           | 11.01 | 154 | 18049  | 2.32   | ng | 98   |
| 57) Fluorene               | 11.65 | 166 | 29568  | 3.08   | ng | # 85 |
| 70) Phenanthrene           | 12.84 | 178 | 388513 | 25.61  | ng | 100  |
| 71) Anthracene             | 12.90 | 178 | 132831 | 8.82   | ng | 99   |
| 72) Carbazole              | 13.11 | 167 | 35525  | 2.48   | ng | 98   |
| 74) Fluoranthene           | 14.32 | 202 | 712821 | 43.02  | ng | 98   |
| 77) Pyrene                 | 14.60 | 202 | 764421 | 43.06  | ng | 100  |
| 80) Benzo(a)anthracene     | 16.08 | 228 | 473833 | 27.86  | ng | 96   |
| 82) Chrysene               | 16.12 | 228 | 431158 | 26.99  | ng | 98   |
| 87) Benzo(b)fluoranthene   | 17.36 | 252 | 828955 | 48.73  | ng | # 95 |
| 88) Benzo(k)fluoranthene   | 17.36 | 252 | 828955 | 49.72  | ng | 99   |
| 89) Benzo(a)pyrene         | 17.72 | 252 | 484245 | 29.89  | ng | # 94 |
| 90) Dibenzo(a,h)anthracene | 19.22 | 278 | 80150  | 5.19   | ng | # 94 |
| 91) Benzo(g,h,i)perylene   | 19.62 | 276 | 328829 | 21.08  | ng | 98   |

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

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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
SB18

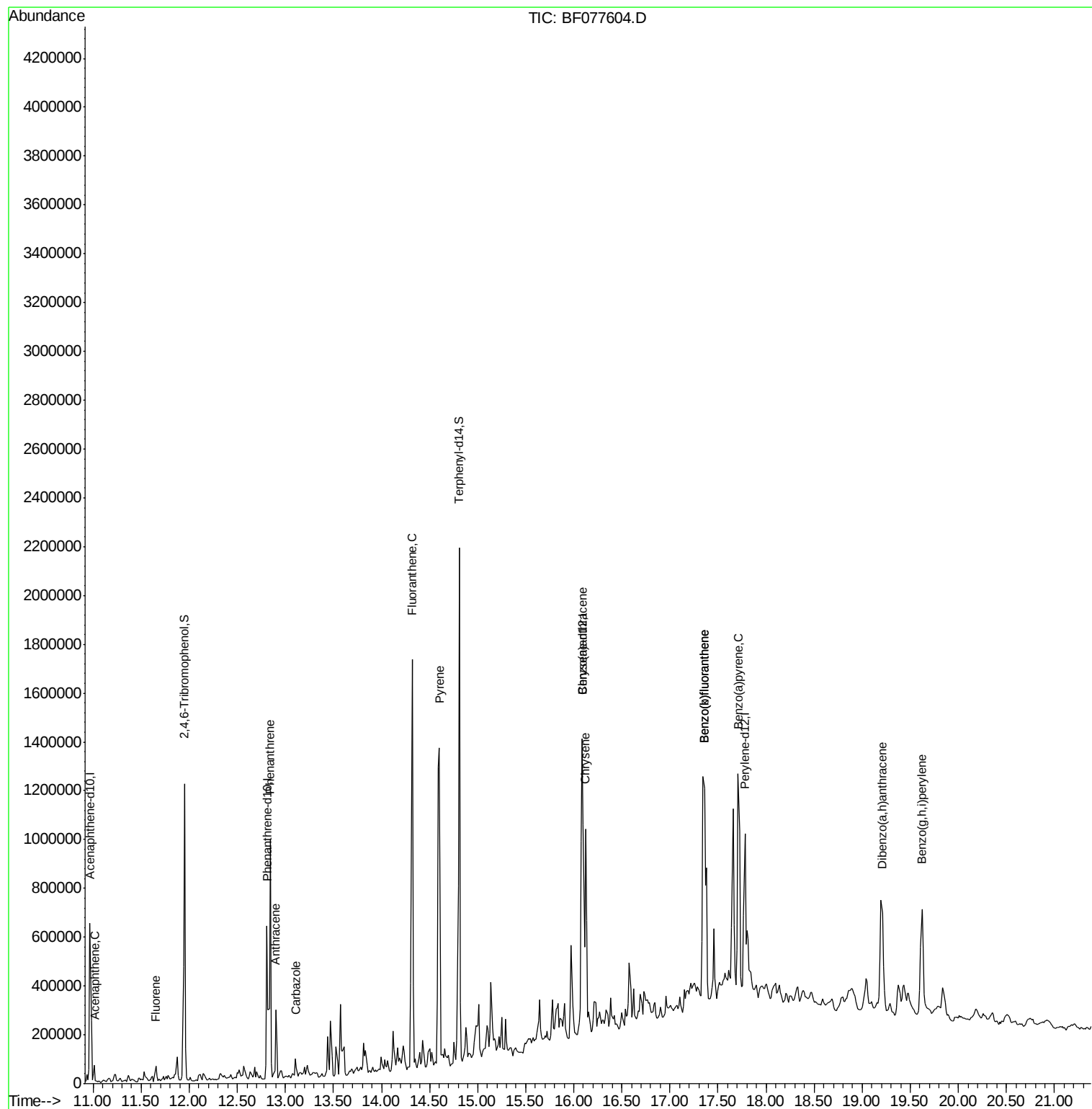
Quant Time: Mar 05 05:14:42 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
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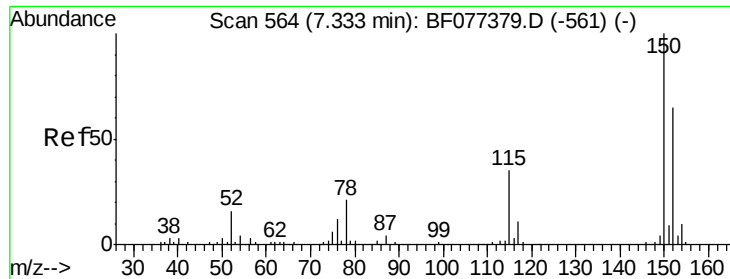


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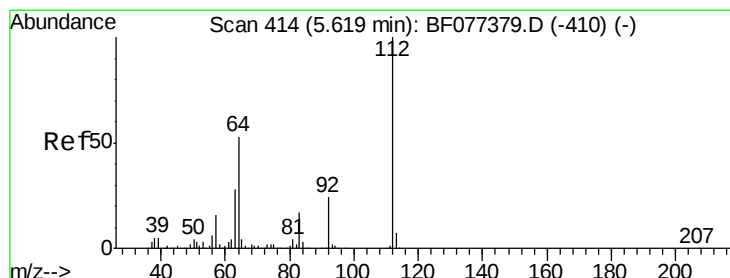
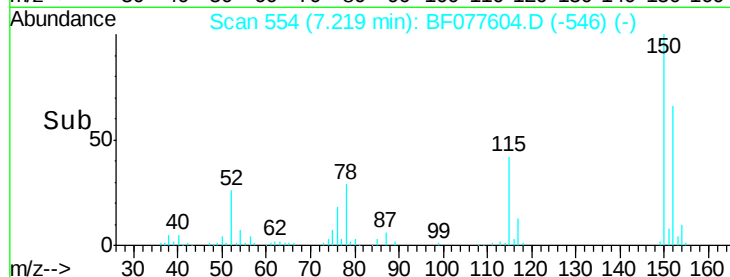
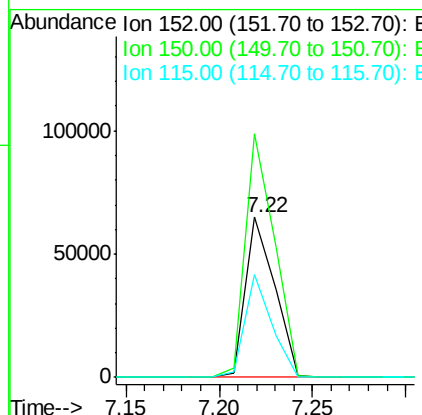
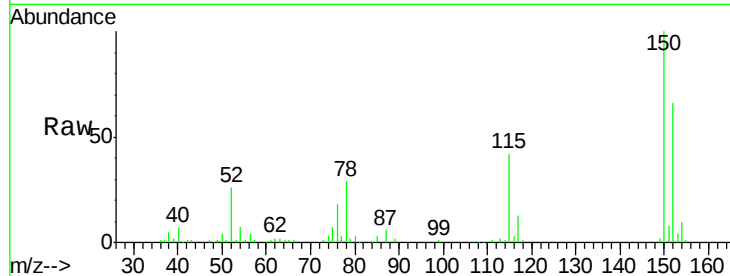




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.22 min Scan# 554  
 Delta R.T. -0.00 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

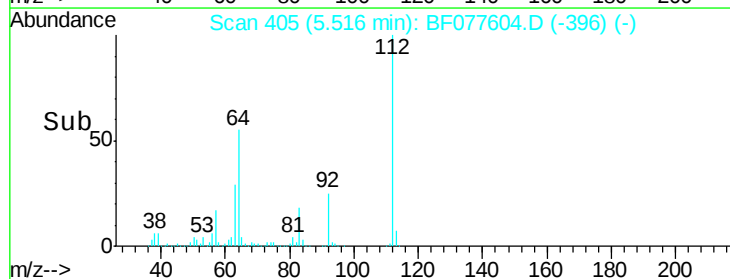
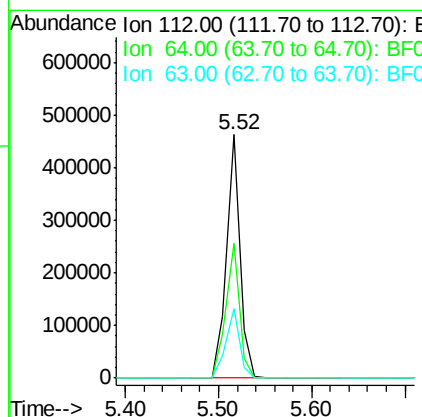
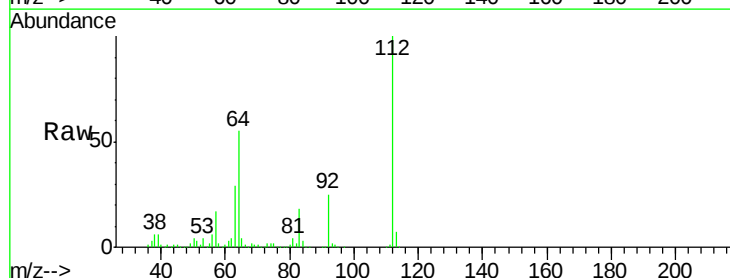
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB18

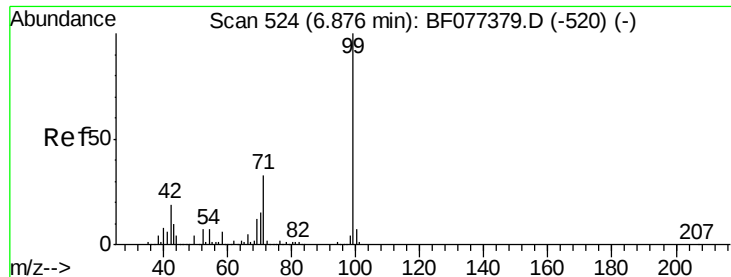
Tgt Ion:152 Resp: 70436  
 Ion Ratio Lower Upper  
 152 100  
 150 151.9 124.0 186.0  
 115 63.8 49.4 74.2



#5  
 2-Fluorophenol  
 Concen: 110.33 ng  
 RT: 5.52 min Scan# 405  
 Delta R.T. 0.00 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

Tgt Ion:112 Resp: 465504  
 Ion Ratio Lower Upper  
 112 100  
 64 55.5 48.5 72.7  
 63 28.6 25.0 37.4





#7

Phenol-d6

Concen: 102.72 ng

RT: 6.79 min Scan# 516

Delta R.T. 0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA\_F

ClientSampleId :

SB18

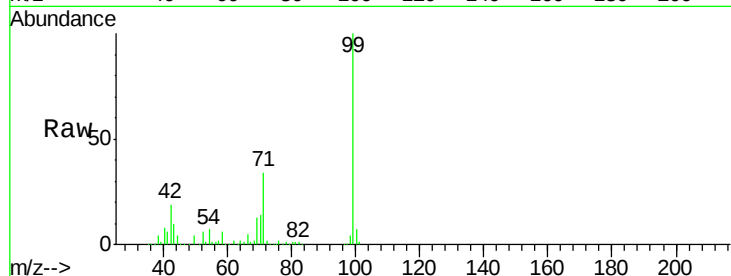
Tgt Ion: 99 Resp: 557247

Ion Ratio Lower Upper

99 100

42 19.4 16.2 24.4

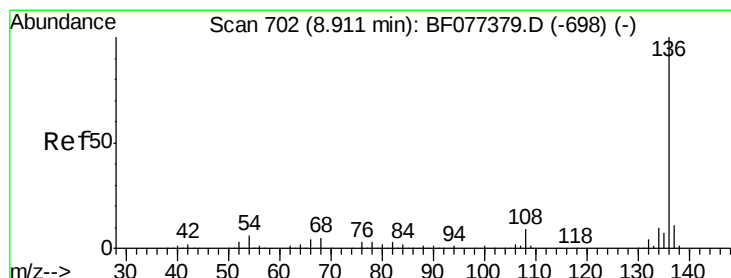
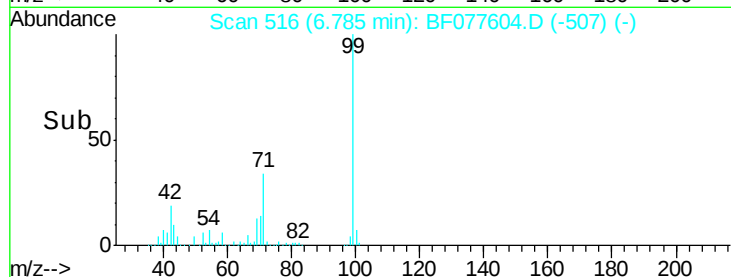
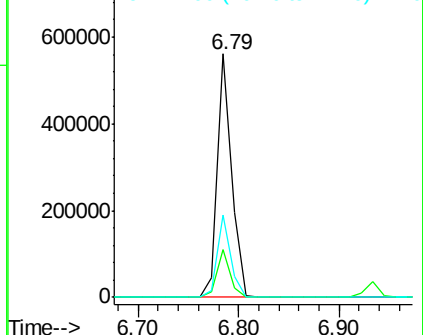
71 33.9 26.7 40.1



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: 8.80 min Scan# 692

Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Tgt Ion: 136 Resp: 275529

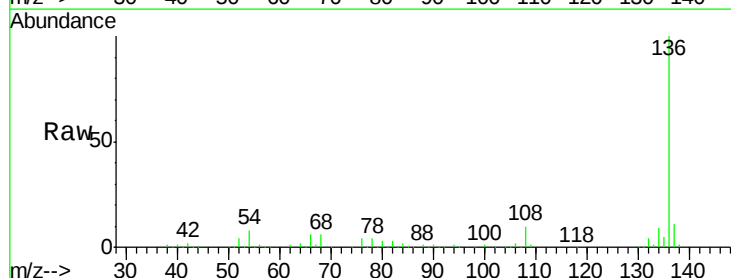
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 8.1 6.2 9.4

68 6.5 5.0 7.6

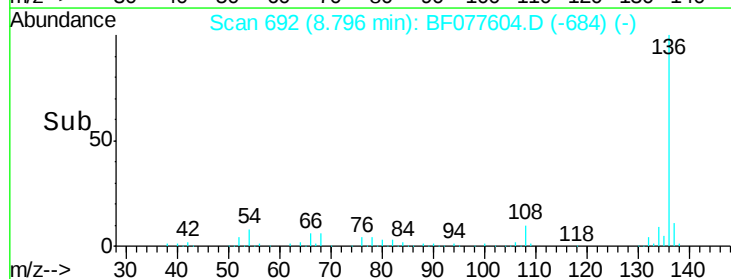
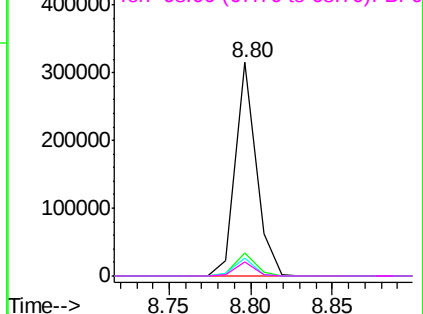


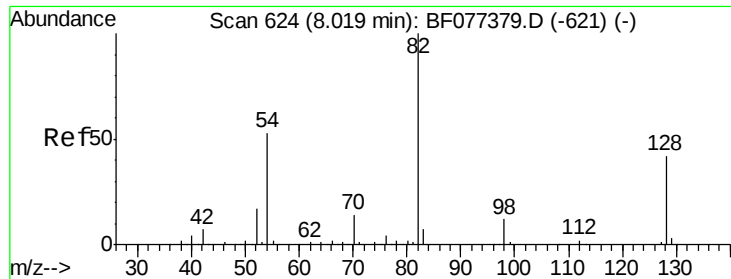
Abundance Ion 136.00 (135.70 to 136.70): E

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

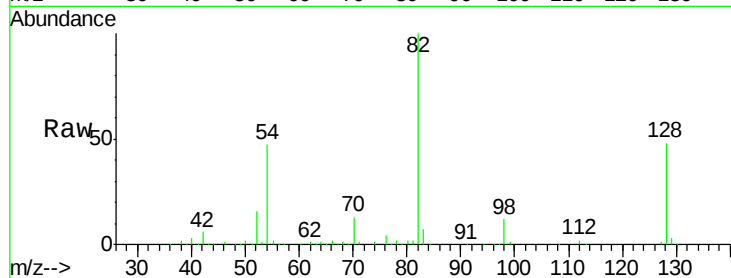




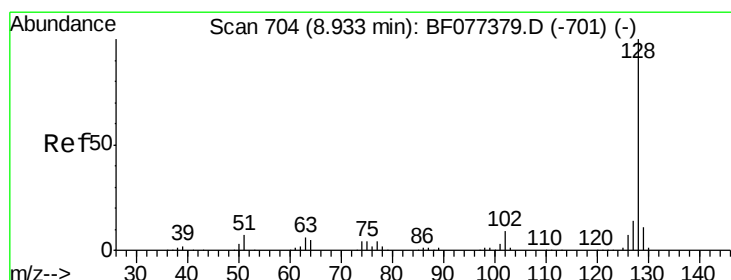
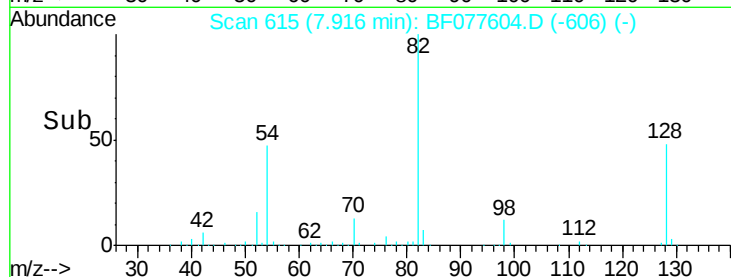
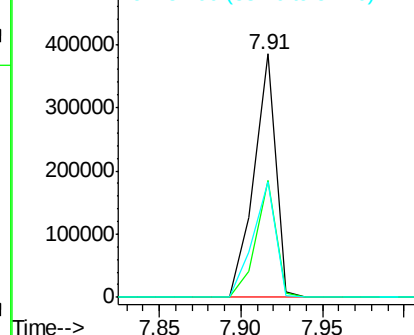
#23  
Nitrobenzene-d5  
Concen: 81.19 ng  
RT: 7.91 min Scan# 615  
Delta R.T. -0.00 min  
Lab File: BF077604.D  
Acq: 5 Mar 2015 4:30

Instrument :  
BNA\_F  
ClientSampleId :  
SB18

Tgt Ion: 82 Resp: 359715  
Ion Ratio Lower Upper  
82 100  
128 47.9 43.8 65.8  
54 47.4 36.7 55.1

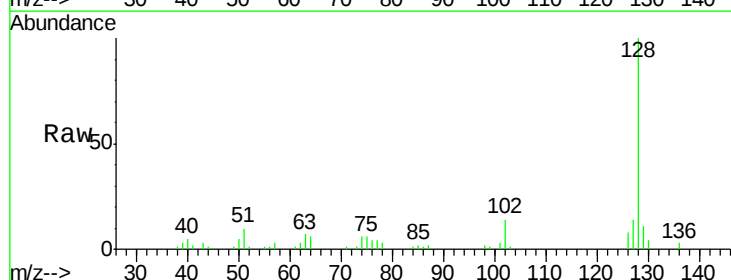


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

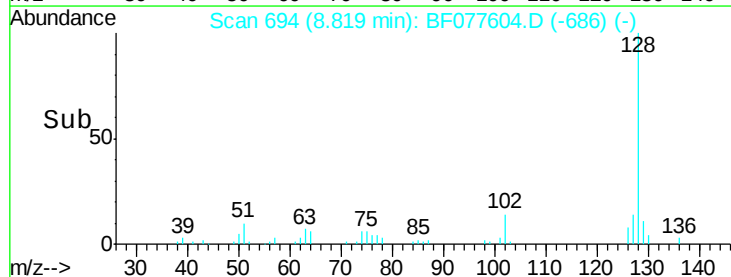
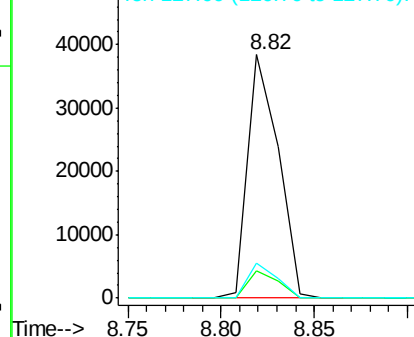


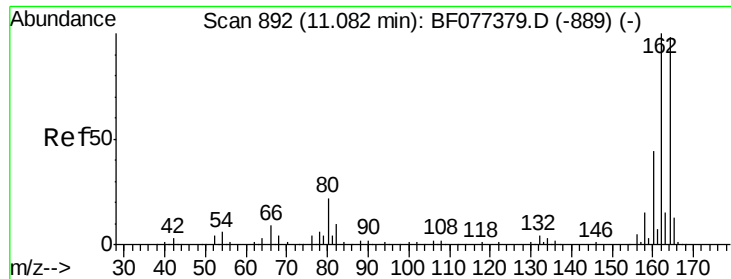
#31  
Naphthalene  
Concen: 3.18 ng  
RT: 8.82 min Scan# 694  
Delta R.T. -0.00 min  
Lab File: BF077604.D  
Acq: 5 Mar 2015 4:30

Tgt Ion: 128 Resp: 43819  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.4 14.0  
127 14.1 10.6 15.8



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

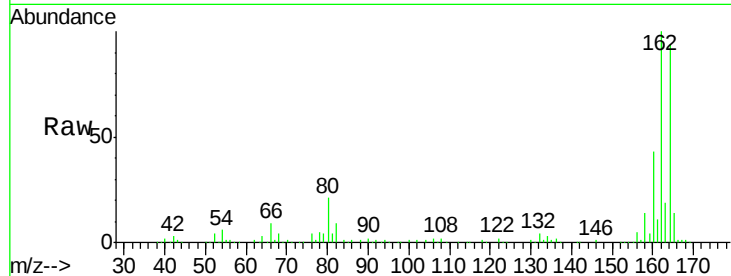




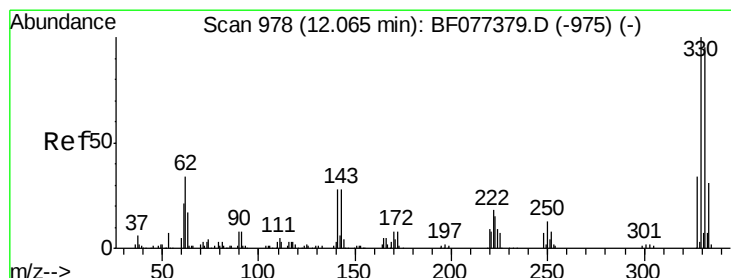
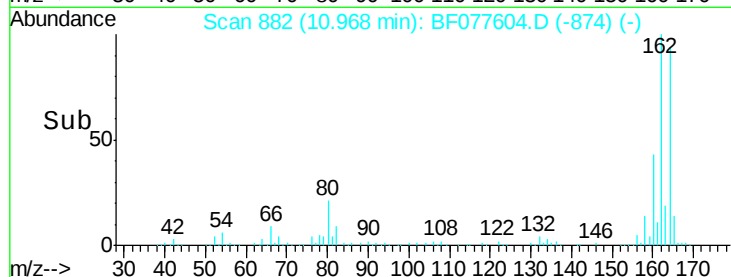
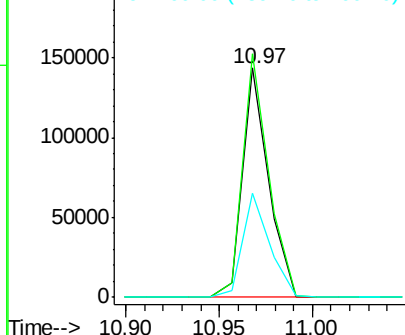
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.97 min Scan# 882  
 Delta R.T. -0.00 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB18

Tgt Ion:164 Resp: 138618  
 Ion Ratio Lower Upper  
 164 100  
 162 106.3 83.2 124.8  
 160 45.7 34.6 52.0

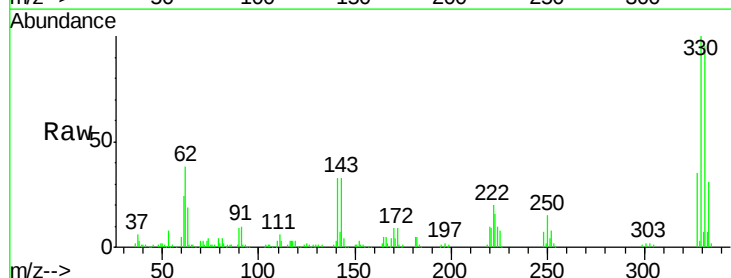


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

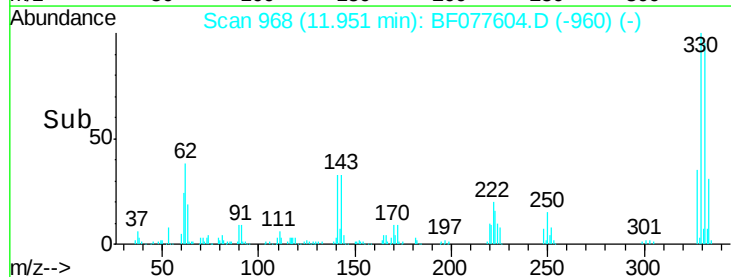
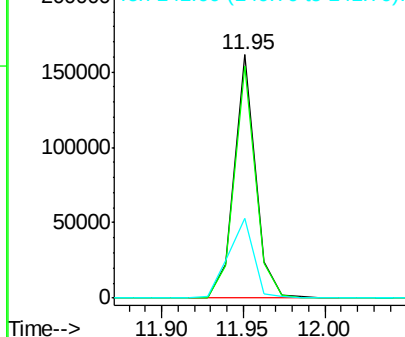


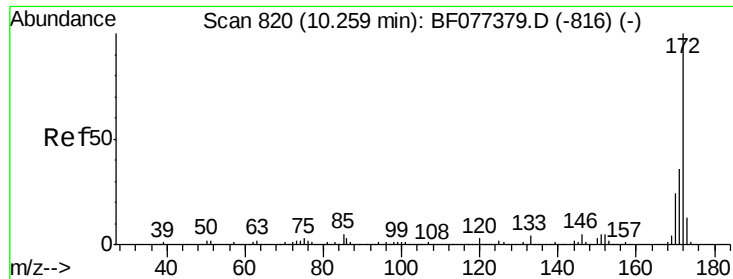
#41  
 2,4,6-Tribromophenol  
 Concen: 108.63 ng  
 RT: 11.95 min Scan# 968  
 Delta R.T. -0.00 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

Tgt Ion:330 Resp: 144985  
 Ion Ratio Lower Upper  
 330 100  
 332 95.1 77.4 116.2  
 141 40.1 28.8 43.2



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

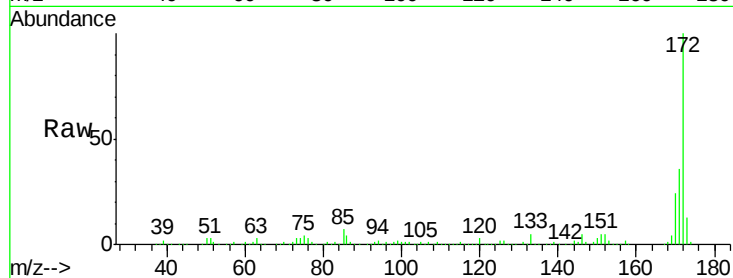




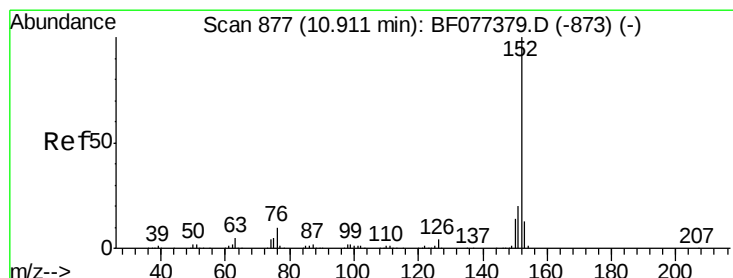
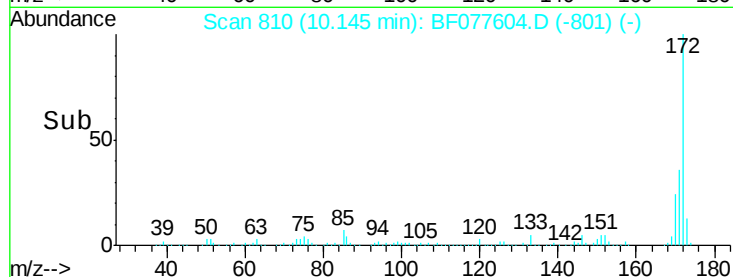
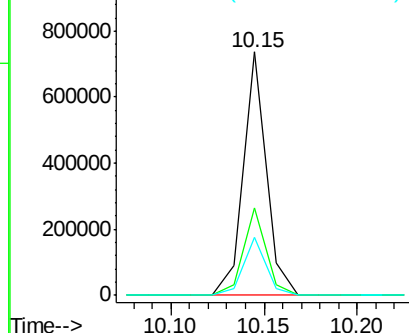
#44  
 2-Fluorobiphenyl  
 Concen: 71.77 ng  
 RT: 10.15 min Scan# 810  
 Delta R.T. -0.00 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

Instrument :  
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Tgt Ion:172 Resp: 638024  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 28.9 43.3  
 170 23.6 19.4 29.2

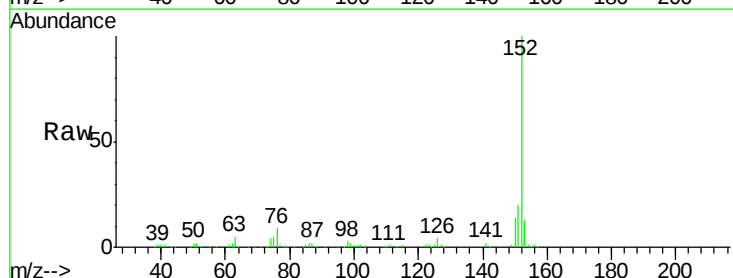


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

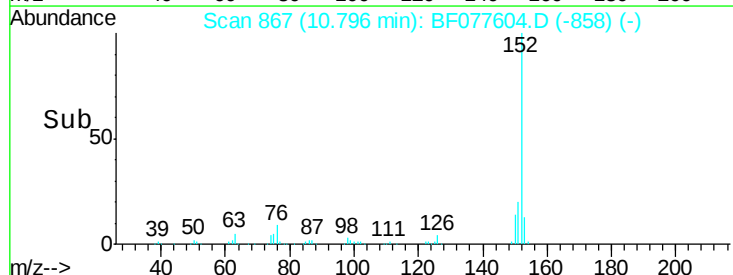
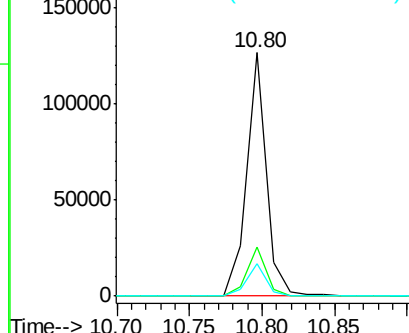


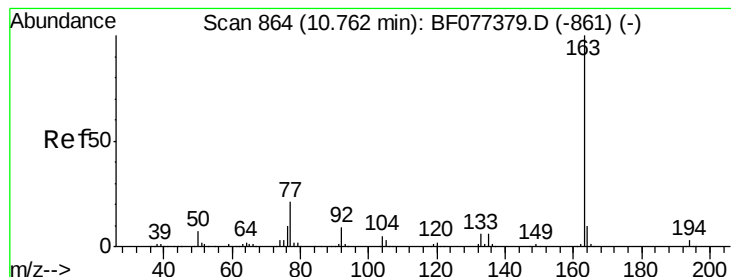
#48  
 Acenaphthylene  
 Concen: 9.20 ng  
 RT: 10.80 min Scan# 867  
 Delta R.T. -0.00 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

Tgt Ion:152 Resp: 119943  
 Ion Ratio Lower Upper  
 152 100  
 151 19.9 16.1 24.1  
 153 13.1 10.9 16.3



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: 5.34 ng

RT: 10.65 min Scan# 854

Delta R.T. -0.01 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA\_F

ClientSampleId :

SB18

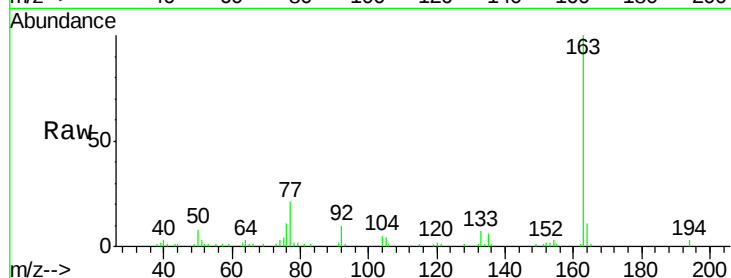
Tgt Ion:163 Resp: 52023

Ion Ratio Lower Upper

163 100

194 3.4 2.6 4.0

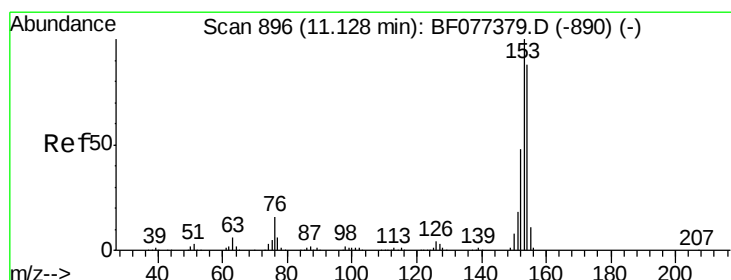
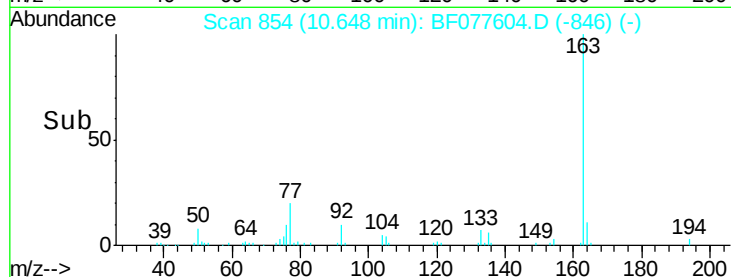
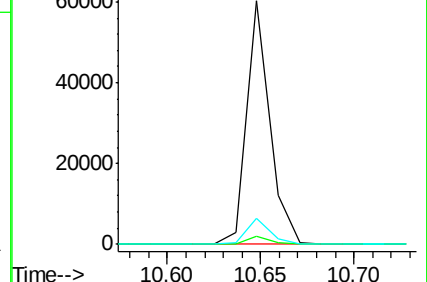
164 10.7 8.6 13.0



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



#51

Acenaphthene

Concen: 2.32 ng

RT: 11.01 min Scan# 886

Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

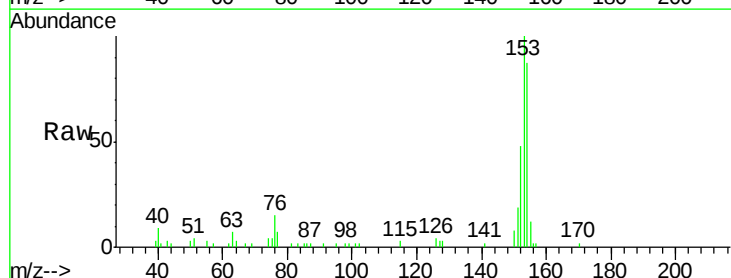
Tgt Ion:154 Resp: 18049

Ion Ratio Lower Upper

154 100

153 115.3 90.5 135.7

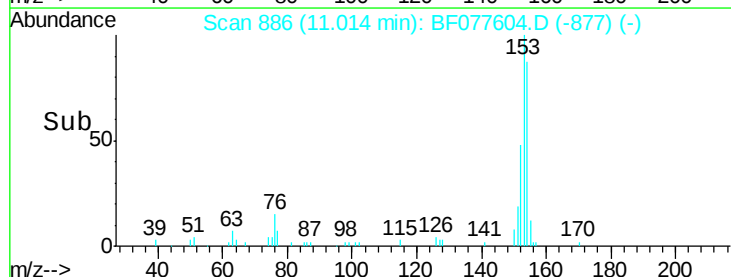
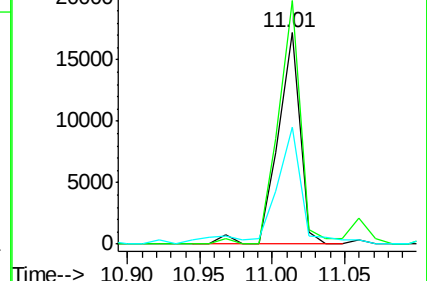
152 55.6 43.5 65.3

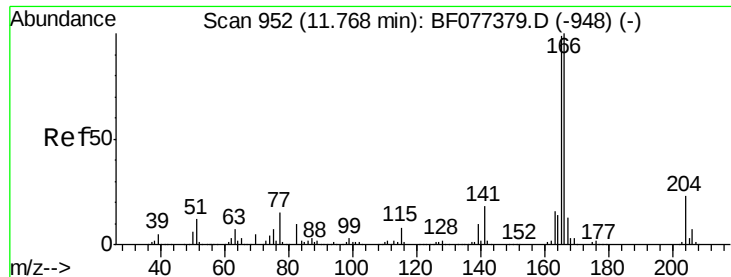


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

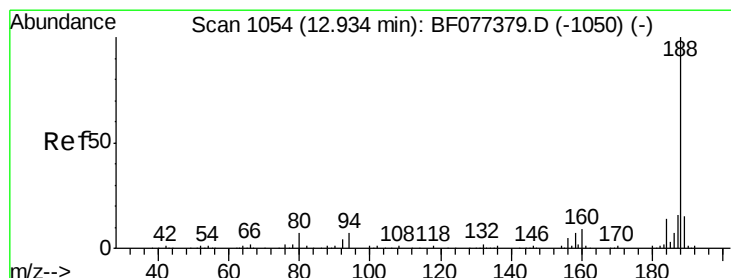
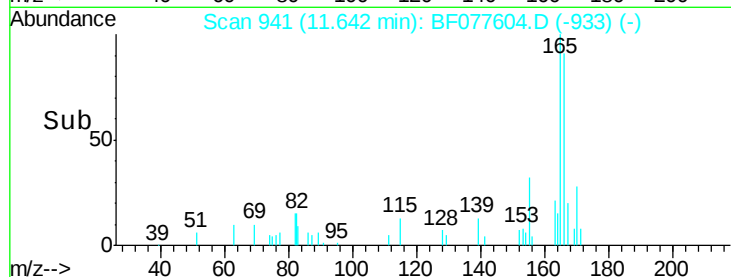
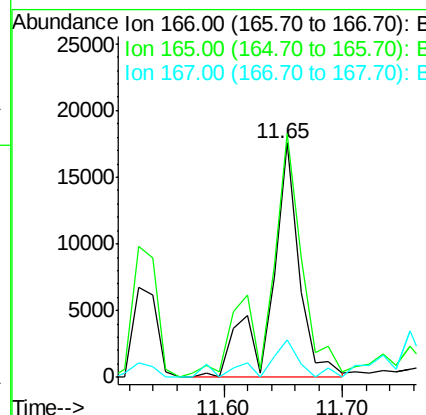
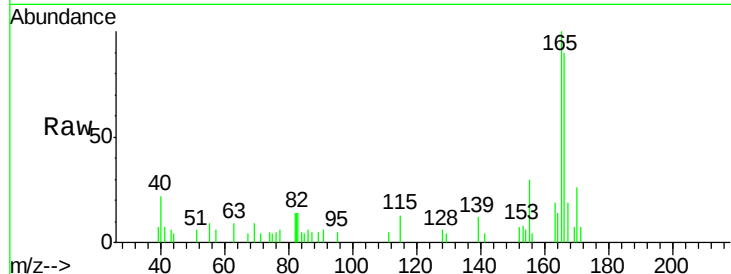




#57  
**Fluorene**  
 Concen: 3.08 ng  
 RT: 11.65 min Scan# 941  
 Delta R.T. -0.01 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

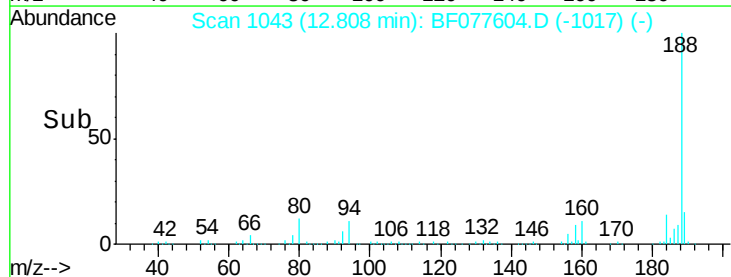
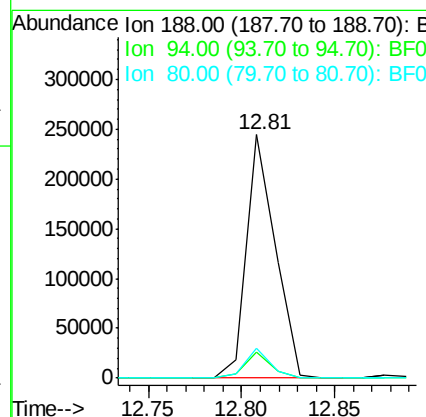
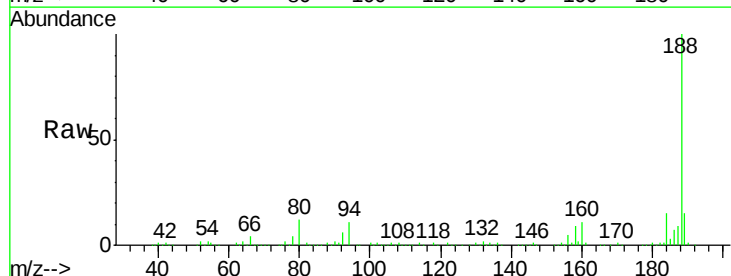
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB18

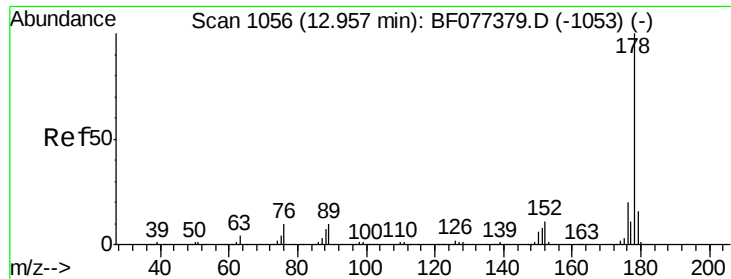
Tgt Ion:166 Resp: 29568  
 Ion Ratio Lower Upper  
 166 100  
 165 111.4 77.6 116.4  
 167 20.8 10.6 16.0#



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 12.81 min Scan# 1043  
 Delta R.T. -0.00 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

Tgt Ion:188 Resp: 261720  
 Ion Ratio Lower Upper  
 188 100  
 94 10.9 7.4 11.2  
 80 12.2 8.0 12.0#

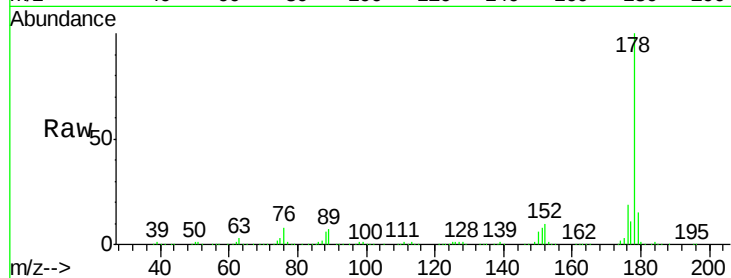




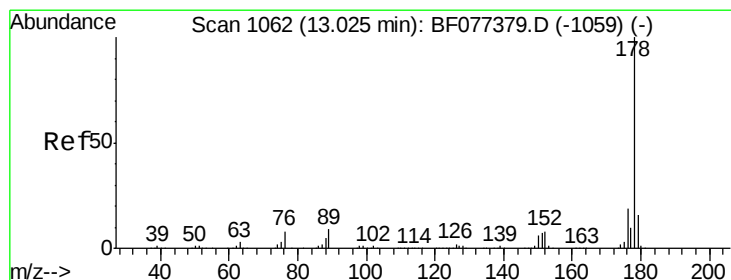
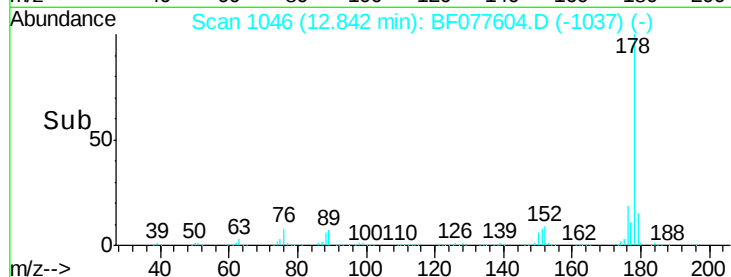
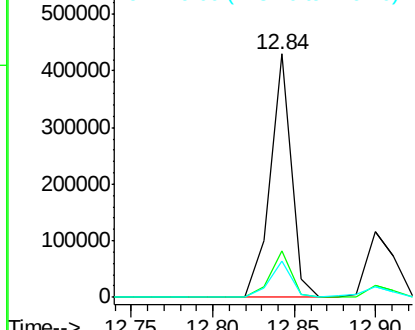
#70  
Phenanthrene  
Concen: 25.61 ng  
RT: 12.84 min Scan# 1046  
Delta R.T. -0.00 min  
Lab File: BF077604.D  
Acq: 5 Mar 2015 4:30

Instrument :  
BNA\_F  
ClientSampleId :  
SB18

Tgt Ion:178 Resp: 388513  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.5 23.3  
179 15.1 12.2 18.2

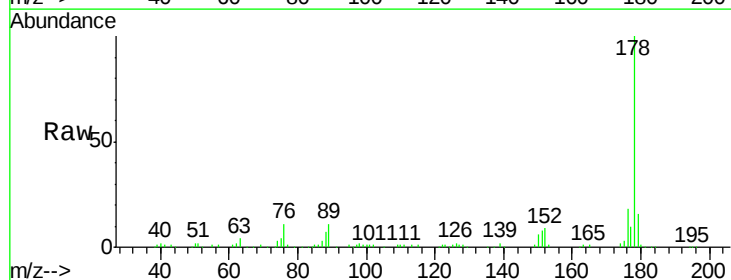


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

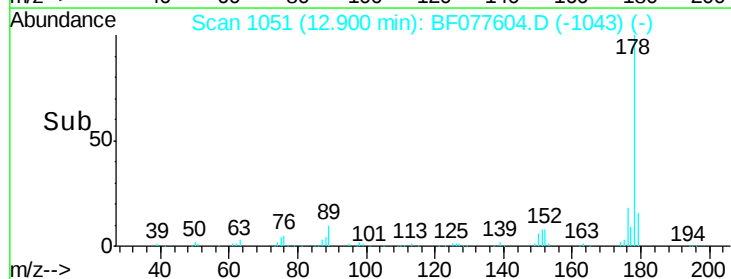
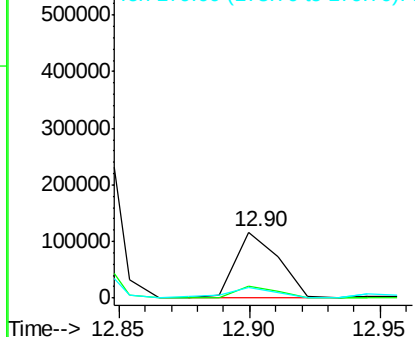


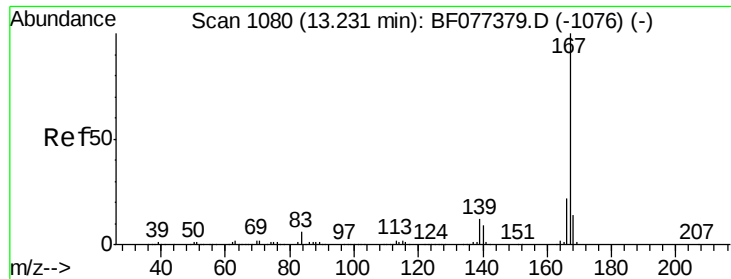
#71  
Anthracene  
Concen: 8.82 ng  
RT: 12.90 min Scan# 1051  
Delta R.T. -0.00 min  
Lab File: BF077604.D  
Acq: 5 Mar 2015 4:30

Tgt Ion:178 Resp: 132831  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.4 23.0  
179 15.9 12.9 19.3



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

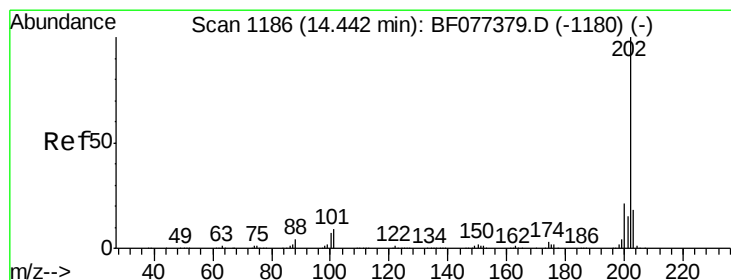
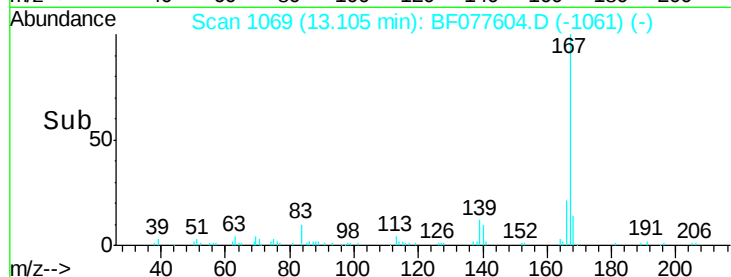
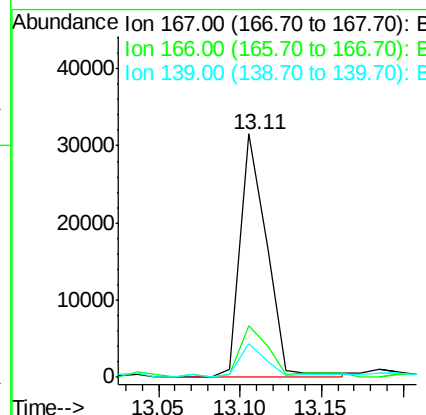
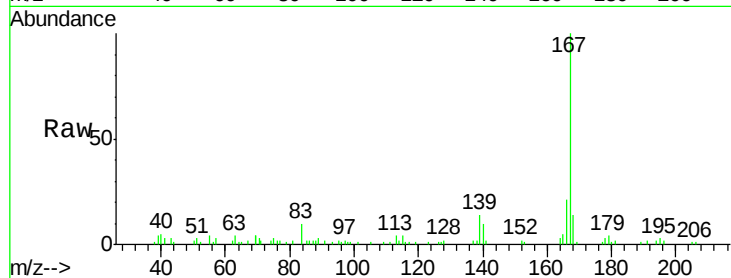




#72  
 Carbazole  
 Concen: 2.48 ng  
 RT: 13.11 min Scan# 1069  
 Delta R.T. -0.00 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

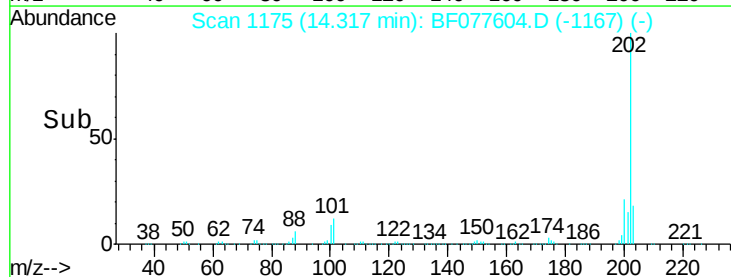
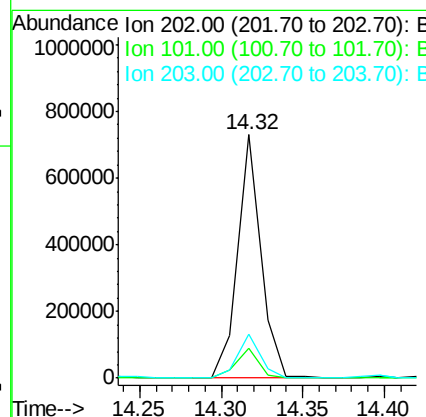
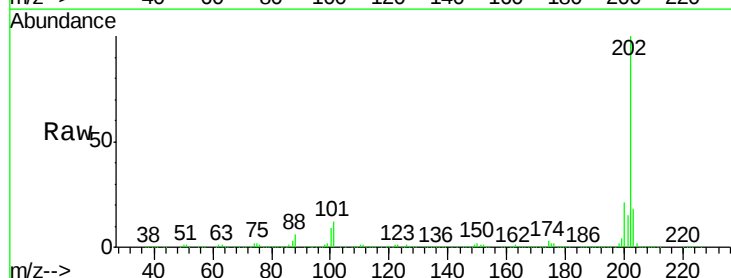
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB18

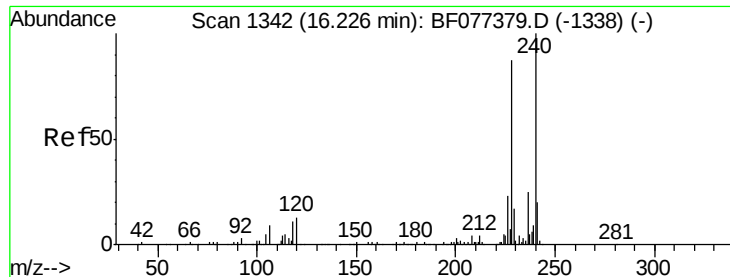
Tgt Ion:167 Resp: 35525  
 Ion Ratio Lower Upper  
 167 100  
 166 21.2 17.6 26.4  
 139 13.6 9.9 14.9



#74  
 Fluoranthene  
 Concen: 43.02 ng  
 RT: 14.32 min Scan# 1175  
 Delta R.T. -0.00 min  
 Lab File: BF077604.D  
 Acq: 5 Mar 2015 4:30

Tgt Ion:202 Resp: 712821  
 Ion Ratio Lower Upper  
 202 100  
 101 12.2 0.0 30.8  
 203 18.3 0.0 37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.10 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA\_F

ClientSampleId :

SB18

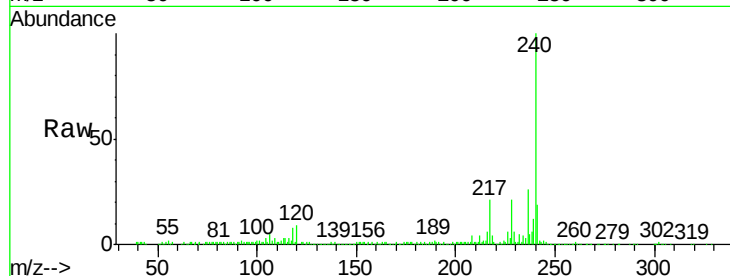
Tgt Ion:240 Resp: 290242

Ion Ratio Lower Upper

240 100

120 8.8 8.8 13.2

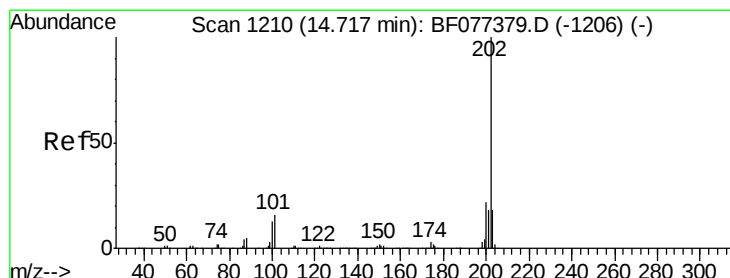
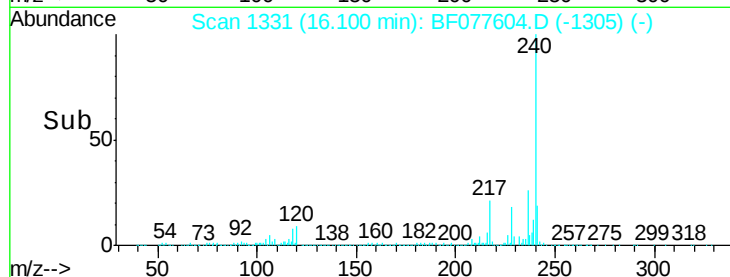
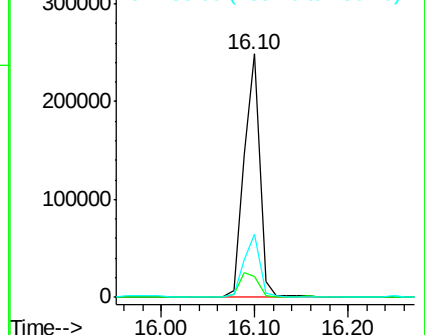
236 25.8 20.7 31.1



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: 43.06 ng

RT: 14.60 min Scan# 1200

Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

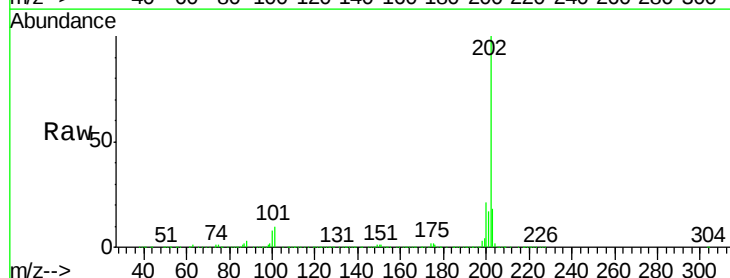
Tgt Ion:202 Resp: 764421

Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

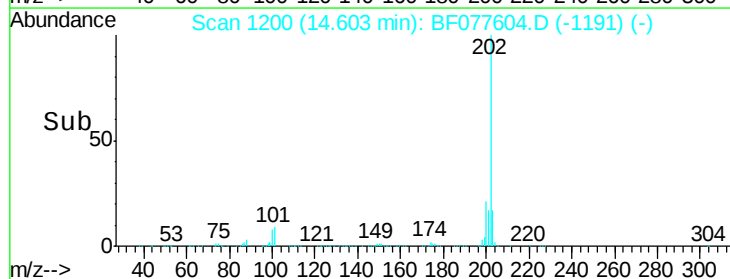
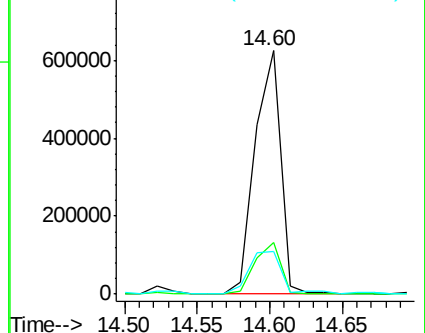
203 17.7 14.2 21.2

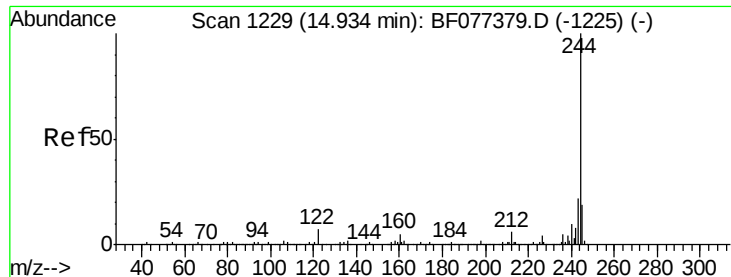


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 58.58 ng

RT: 14.81 min Scan# 1218

Delta R.T. -0.00 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA\_F

ClientSampled :

SB18

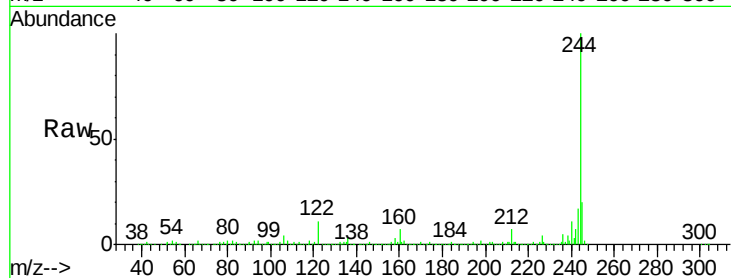
Tgt Ion:244 Resp: 727252

Ion Ratio Lower Upper

244 100

212 6.6 5.2 7.8

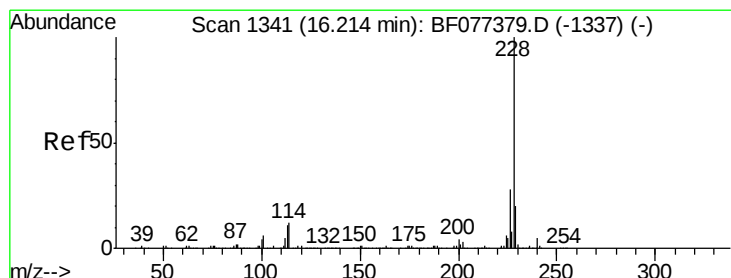
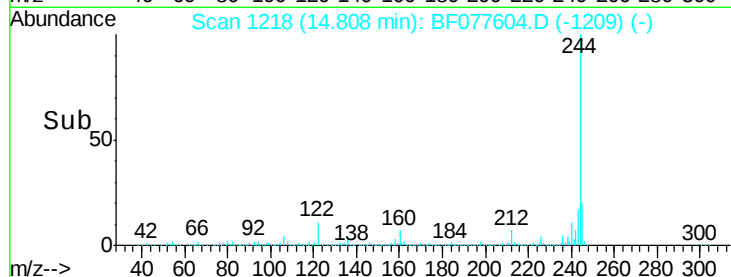
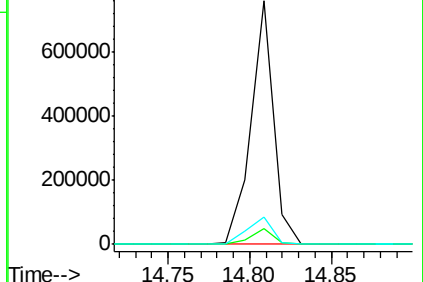
122 11.1 7.8 11.8



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: 27.86 ng

RT: 16.08 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

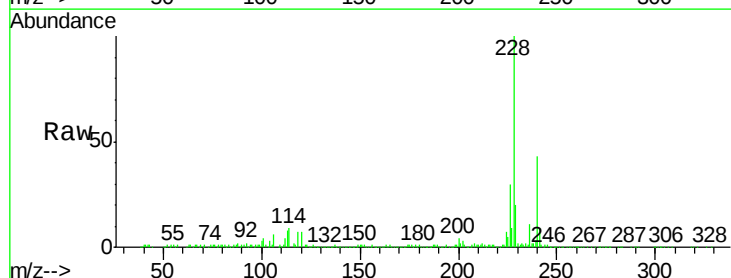
Tgt Ion:228 Resp: 473833

Ion Ratio Lower Upper

228 100

226 30.2 22.0 33.0

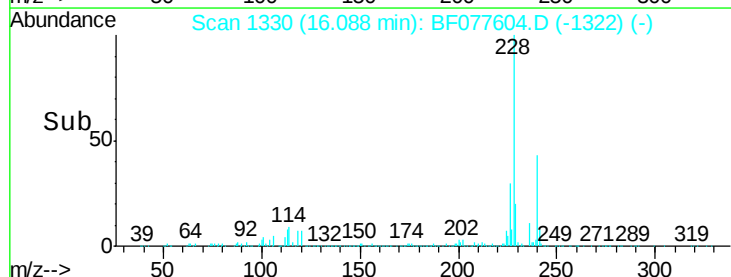
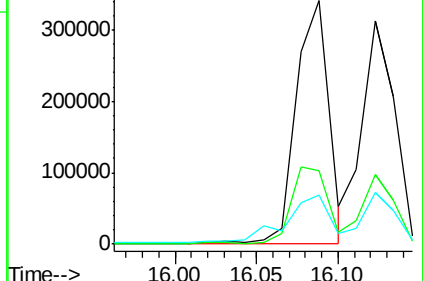
229 20.4 15.8 23.8

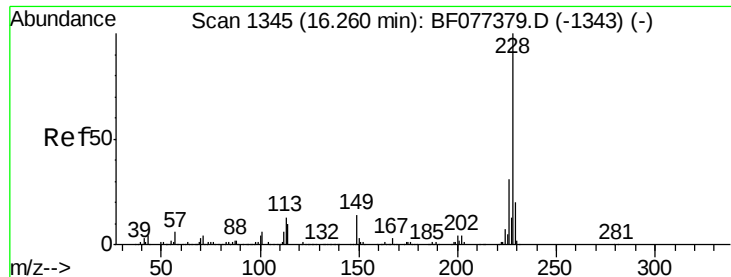


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 26.99 ng

RT: 16.12 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA\_F

ClientSampleId :

SB18

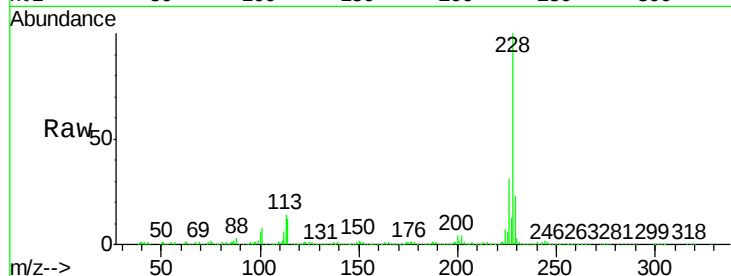
Tgt Ion:228 Resp: 431158

Ion Ratio Lower Upper

228 100

226 30.9 24.9 37.3

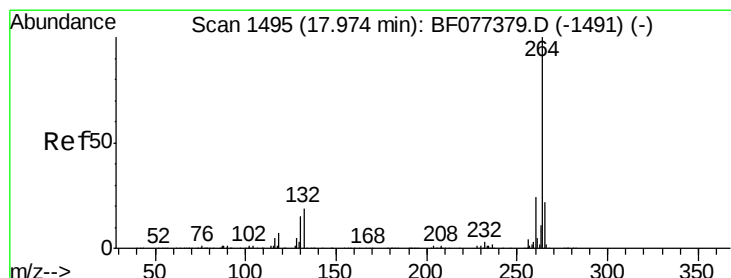
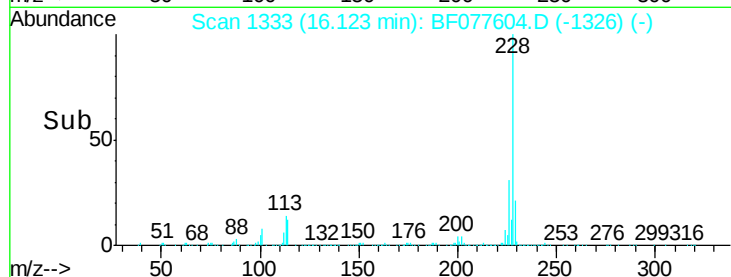
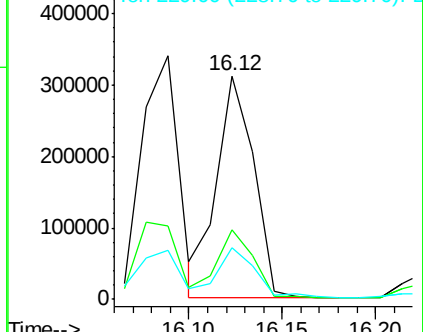
229 22.9 16.4 24.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 17.78 min Scan# 1478

Delta R.T. -0.07 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

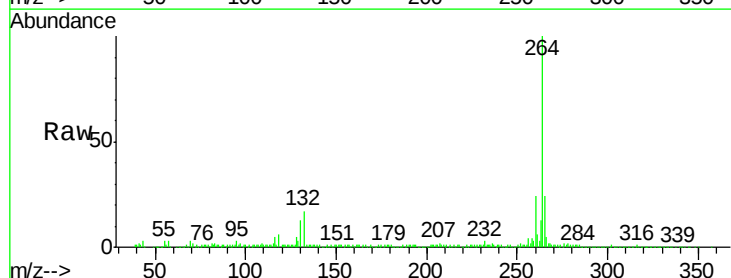
Tgt Ion:264 Resp: 292555

Ion Ratio Lower Upper

264 100

260 23.8 19.3 28.9

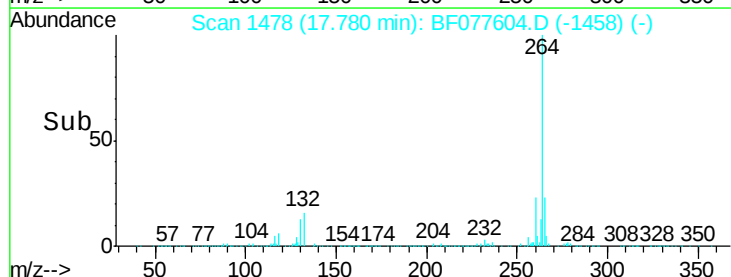
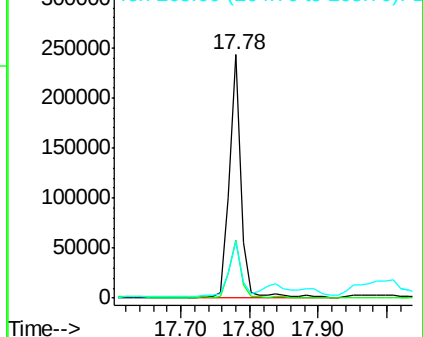
265 23.6 16.8 25.2

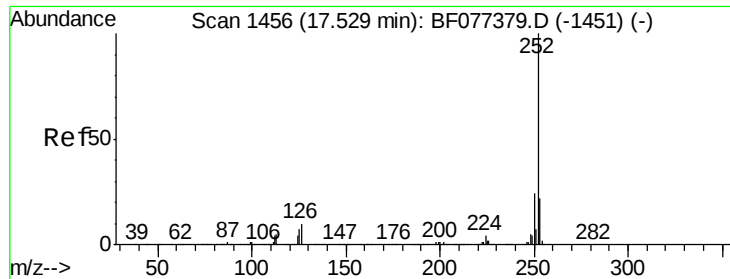


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

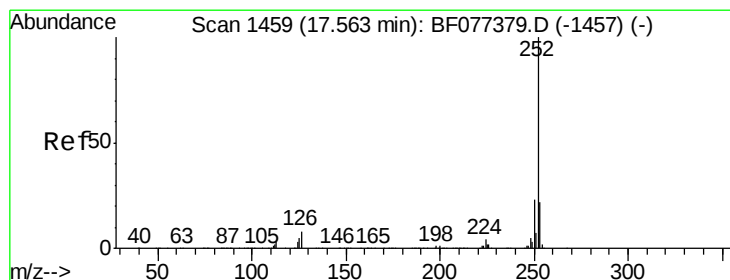
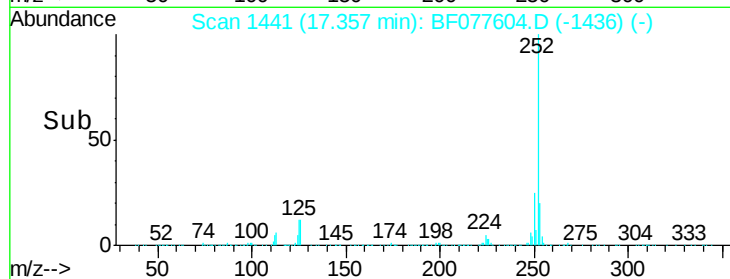
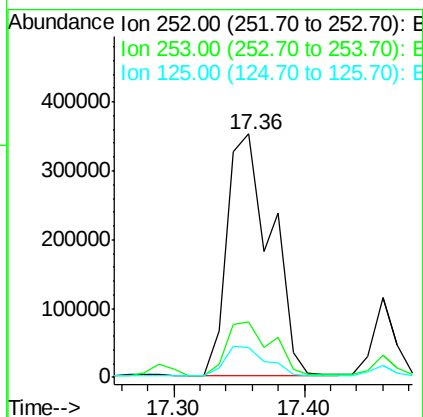
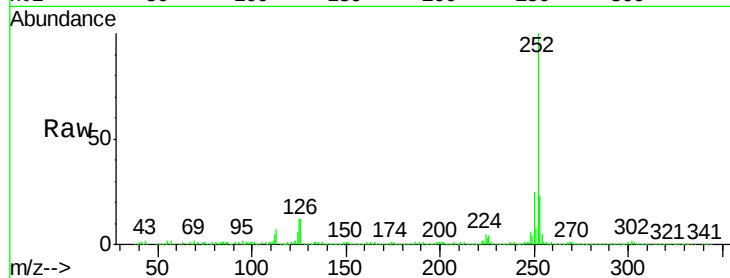




#87  
Benzo(b)fluoranthene  
Concen: 48.73 ng  
RT: 17.36 min Scan# 1441  
Delta R.T. -0.04 min  
Lab File: BF077604.D  
Acq: 5 Mar 2015 4:30

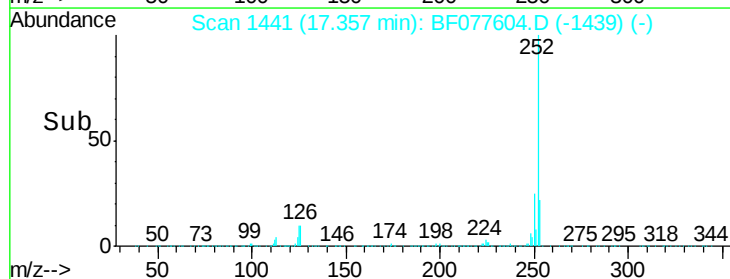
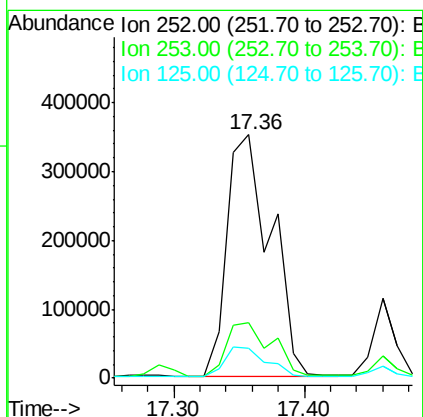
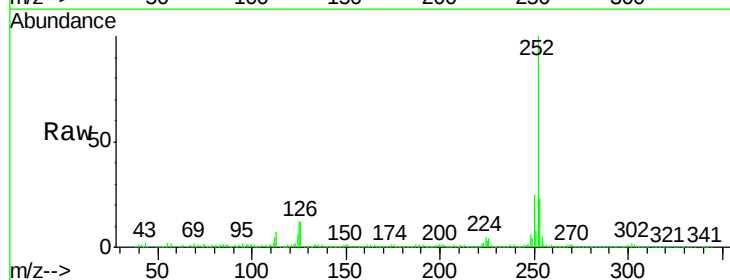
Instrument :  
BNA\_F  
ClientSampleId :  
SB18

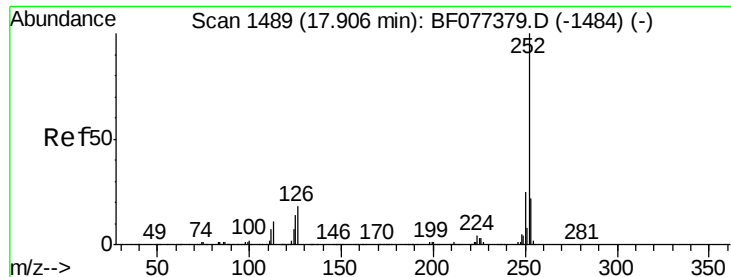
Tgt Ion:252 Resp: 828955  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.6 26.4  
125 12.2 5.4 8.2#



#88  
Benzo(k)fluoranthene  
Concen: 49.72 ng  
RT: 17.36 min Scan# 1441  
Delta R.T. -0.08 min  
Lab File: BF077604.D  
Acq: 5 Mar 2015 4:30

Tgt Ion:252 Resp: 828955  
Ion Ratio Lower Upper  
252 100  
253 23.0 18.1 27.1  
125 12.2 10.1 15.1





#89

Benzo(a)pyrene

Concen: 29.89 ng

RT: 17.72 min Scan# 1472

Delta R.T. -0.07 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA\_F

ClientSampleId :

SB18

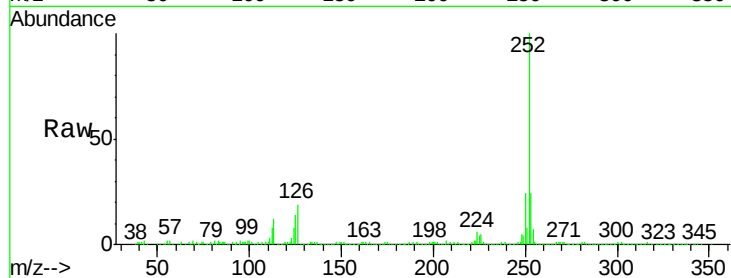
Tgt Ion:252 Resp: 484245

Ion Ratio Lower Upper

252 100

253 24.2 18.2 27.2

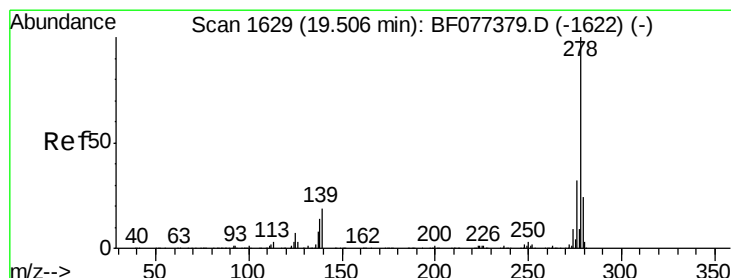
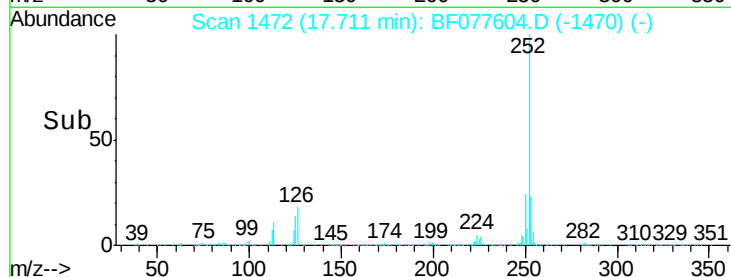
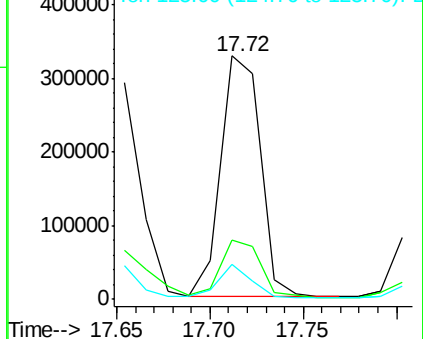
125 14.5 8.3 12.5#



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



#90

Dibenzo(a,h)anthracene

Concen: 5.19 ng

RT: 19.22 min Scan# 1604

Delta R.T. -0.09 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

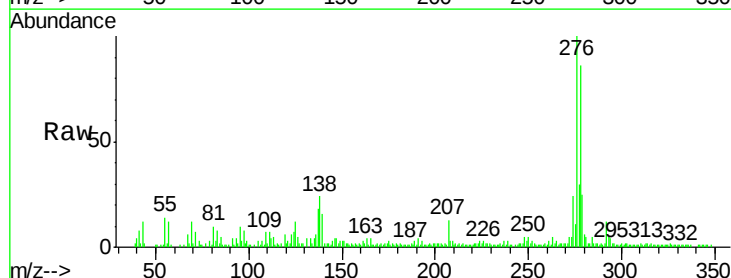
Tgt Ion:278 Resp: 80150

Ion Ratio Lower Upper

278 100

139 18.1 14.3 21.5

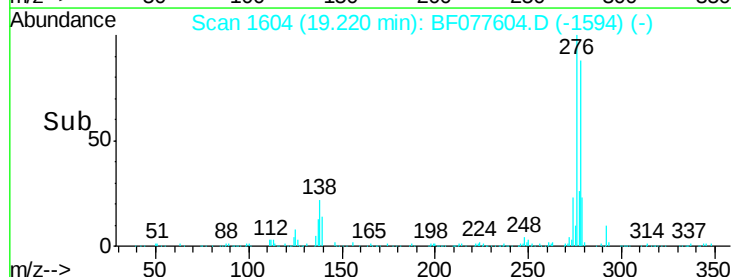
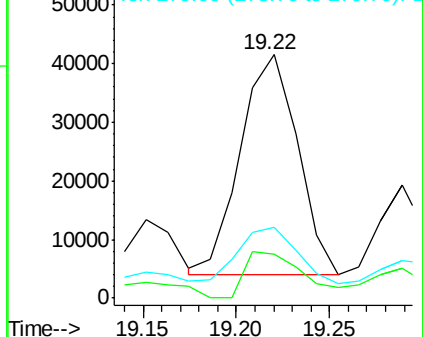
279 29.0 19.0 28.6#

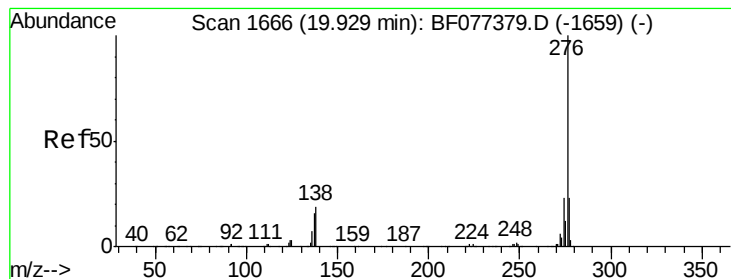


Abundance Ion 278.00 (277.70 to 278.70): E

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: 21.08 ng

RT: 19.62 min Scan# 1639

Delta R.T. -0.08 min

Lab File: BF077604.D

Acq: 5 Mar 2015 4:30

Instrument :

BNA\_F

ClientSampleId :

SB18

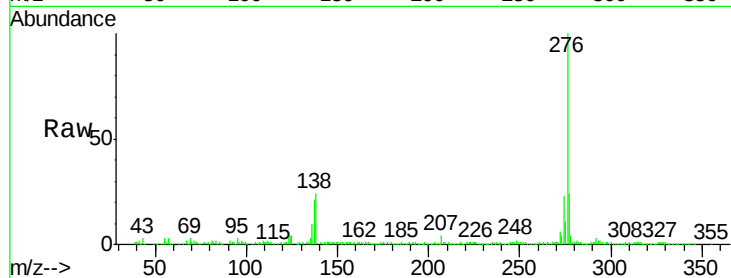
Tgt Ion: 276 Resp: 328829

Ion Ratio Lower Upper

276 100

277 23.8 18.9 28.3

138 24.2 20.5 30.7



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

