

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF053115\  
 Data File : BF079644.D  
 Acq On : 31 May 2015 20:33  
 Operator : TP/IZ  
 Sample : G2408-12  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-21S

Quant Time: Jun 01 05:18:25 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 01 04:06:42 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.90  | 152  | 71022    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.48  | 136  | 290372   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.65 | 164  | 140283   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.48 | 188  | 270262   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 15.76 | 240  | 274805   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 17.46 | 264  | 298505   | 20.00 | ng    | 0.02     |

|                             |       |     |        |        |    |      |
|-----------------------------|-------|-----|--------|--------|----|------|
| System Monitoring Compounds |       |     |        |        |    |      |
| 5) 2-Fluorophenol           | 5.18  | 112 | 456643 | 111.52 | ng | 0.01 |
| 7) Phenol-d6                | 6.51  | 99  | 611979 | 117.26 | ng | 0.01 |
| 23) Nitrobenzene-d5         | 7.61  | 82  | 358514 | 71.37  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 11.63 | 330 | 196207 | 127.34 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.84  | 172 | 735221 | 74.77  | ng | 0.01 |
| 78) Terphenyl-d14           | 14.48 | 244 | 821516 | 70.16  | ng | 0.01 |

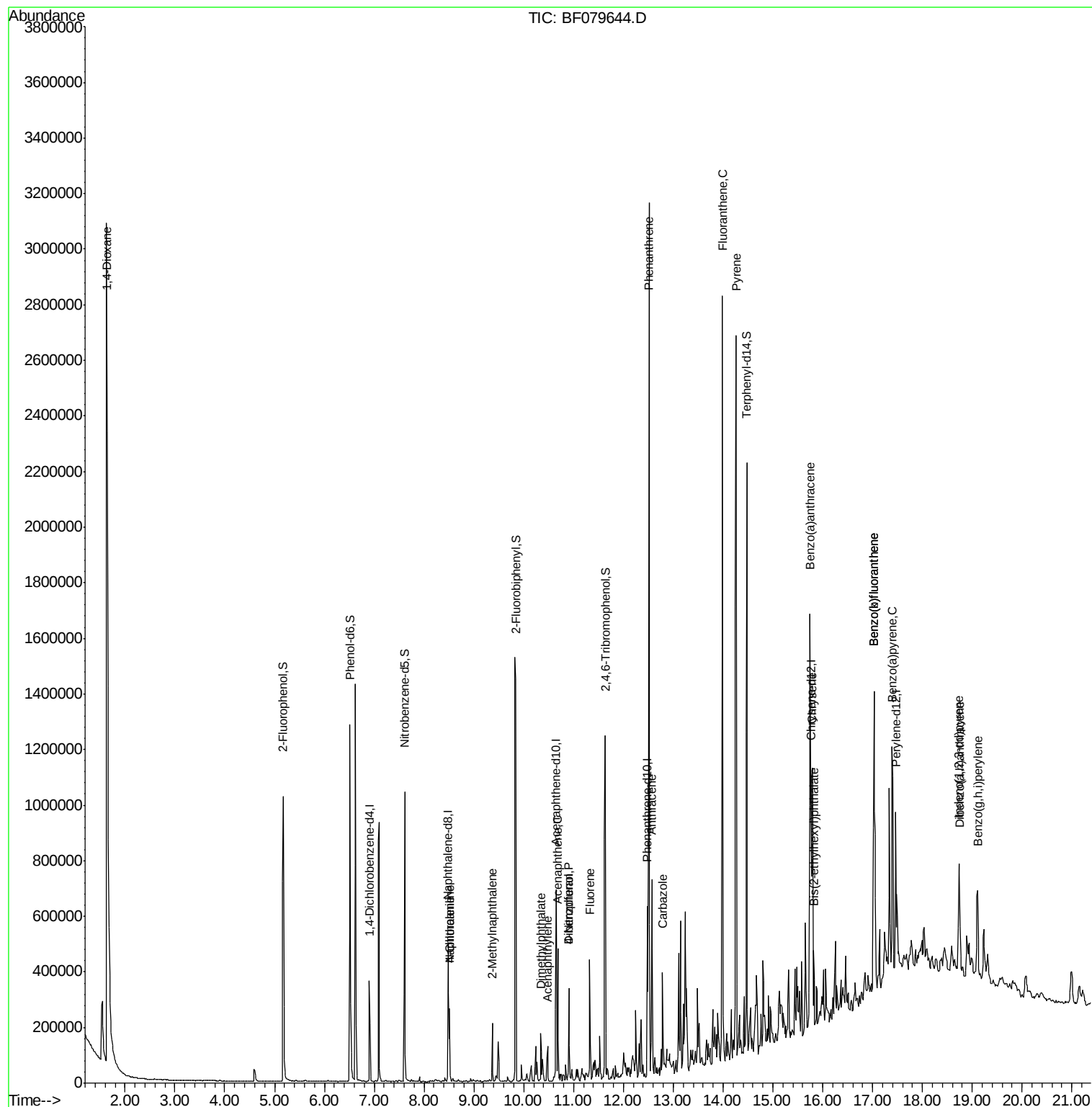
|                                |       |     |         |       |     |        |
|--------------------------------|-------|-----|---------|-------|-----|--------|
| Target Compounds               |       |     |         |       |     | Qvalue |
| 2) 1,4-Dioxane                 | 1.63  | 88  | 159672  | 81.97 | ng  | # 100  |
| 9) Benzaldehyde                | 6.38  | 77  | 1364    | Below | Cal | # 84   |
| 31) Naphthalene                | 8.51  | 128 | 148345  | 10.65 | ng  | 97     |
| 33) 4-Chloroaniline            | 8.51  | 127 | 17962   | 3.09  | ng  | # 32   |
| 37) 2-Methylnaphthalene        | 9.37  | 142 | 57633   | 5.96  | ng  | 97     |
| 48) Acenaphthylene             | 10.48 | 152 | 58123   | 4.05  | ng  | 98     |
| 49) Dimethylphthalate          | 10.34 | 163 | 85627   | 8.28  | ng  | 100    |
| 51) Acenaphthene               | 10.68 | 154 | 111885  | 13.62 | ng  | 99     |
| 54) Dibenzofuran               | 10.90 | 168 | 132773  | 10.96 | ng  | 98     |
| 55) 4-Nitrophenol              | 10.90 | 139 | 51309   | 34.45 | ng  | # 13   |
| 57) Fluorene                   | 11.32 | 166 | 122849  | 12.30 | ng  | 99     |
| 70) Phenanthrene               | 12.51 | 178 | 1271881 | 85.78 | ng  | 97     |
| 71) Anthracene                 | 12.57 | 178 | 357159  | 23.73 | ng  | 97     |
| 72) Carbazole                  | 12.79 | 167 | 154757  | 10.68 | ng  | 99     |
| 73) Di-n-butylphthalate        | 13.25 | 149 | 8997    | Below | Cal | # 49   |
| 74) Fluoranthene               | 13.99 | 202 | 1332616 | 83.81 | ng  | 97     |
| 77) Pyrene                     | 14.26 | 202 | 1174082 | 68.96 | ng  | 98     |
| 80) Benzo(a)anthracene         | 15.75 | 228 | 693707  | 43.88 | ng  | 98     |
| 82) Chrysene                   | 15.79 | 228 | 490227  | 32.62 | ng  | 97     |
| 83) Bis(2-ethylhexyl)phthalate | 15.82 | 149 | 63396   | 5.78  | ng  | 99     |
| 85) Indeno(1,2,3-cd)pyrene     | 18.73 | 276 | 288914  | 14.95 | ng  | 94     |
| 87) Benzo(b)fluoranthene       | 17.03 | 252 | 890042  | 52.28 | ng  | 97     |
| 88) Benzo(k)fluoranthene       | 17.03 | 252 | 890042  | 58.46 | ng  | # 95   |
| 89) Benzo(a)pyrene             | 17.39 | 252 | 504772  | 33.31 | ng  | # 96   |
| 90) Dibenzo(a,h)anthracene     | 18.74 | 278 | 82669   | 3.90  | ng  | # 91   |
| 91) Benzo(g,h,i)perylene       | 19.11 | 276 | 260221  | 15.58 | ng  | 96     |

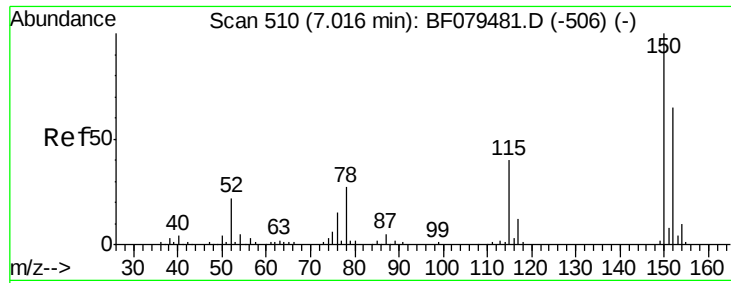
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF053115\  
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Misc :  
ALS Vial : 16 Sample Multiplier: 1

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 01 04:06:42 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 500

Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA\_F

ClientSampleId :

SB-21S

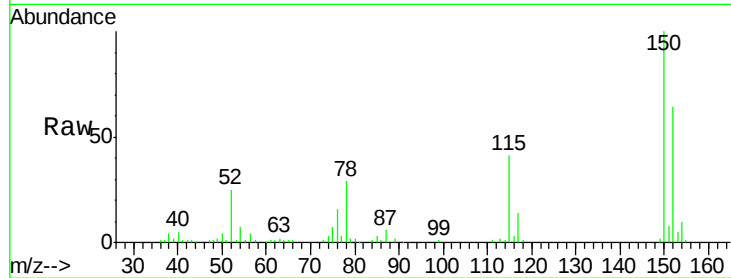
Tgt Ion:152 Resp: 71022

Ion Ratio Lower Upper

152 100

150 157.3 124.0 186.0

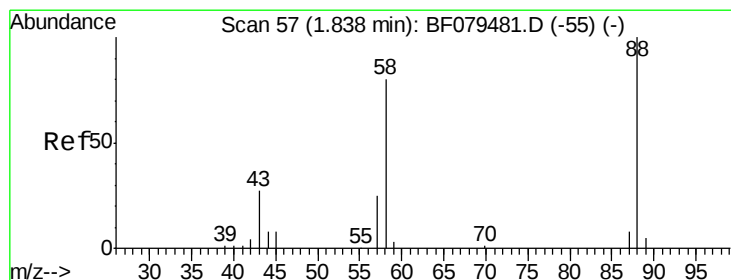
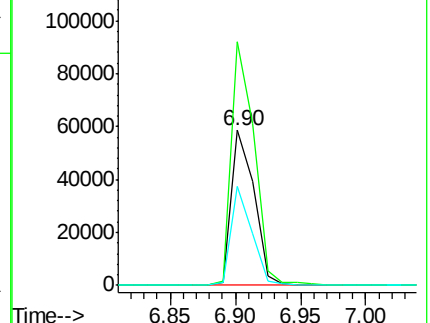
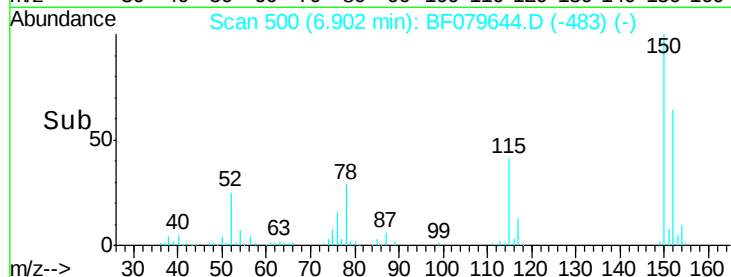
115 63.9 49.6 74.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 81.97 ng

RT: 1.63 min Scan# 39

Delta R.T. -0.06 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

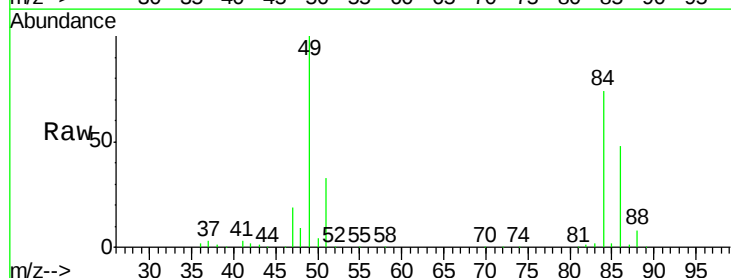
Tgt Ion: 88 Resp: 159672

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

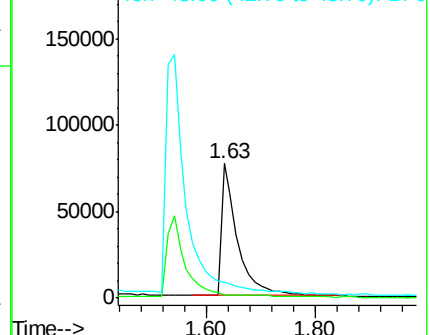
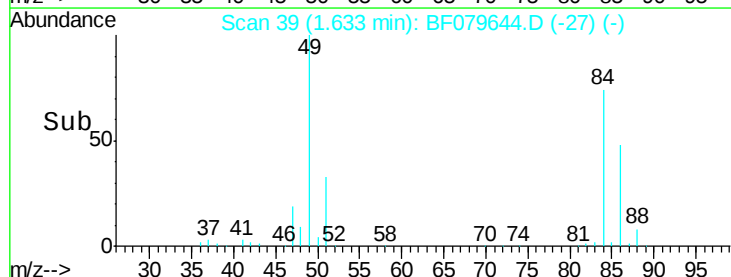
43 0.0 0.0 0.0

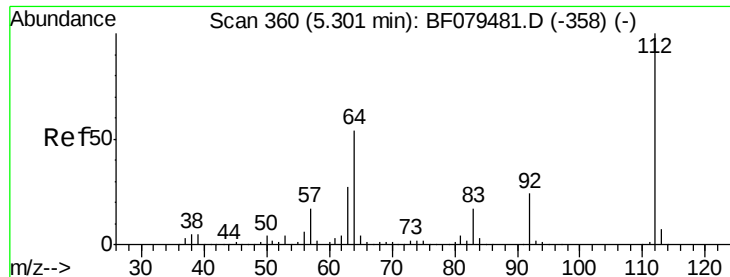


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 111.52 ng

RT: 5.18 min Scan# 349

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA\_F

ClientSampleId :

SB-21S

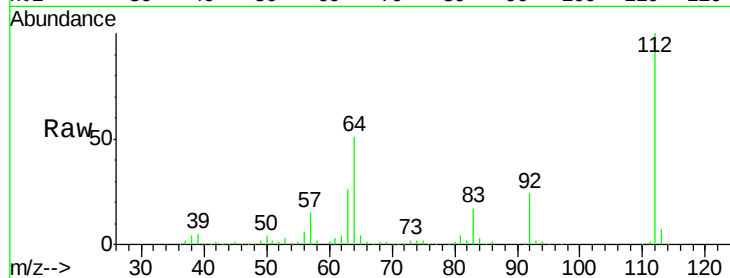
Tgt Ion: 112 Resp: 456643

Ion Ratio Lower Upper

112 100

64 51.3 43.5 65.3

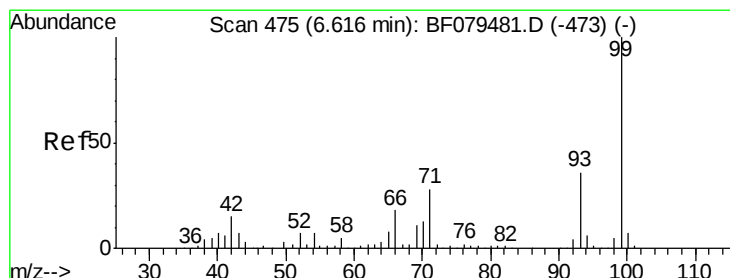
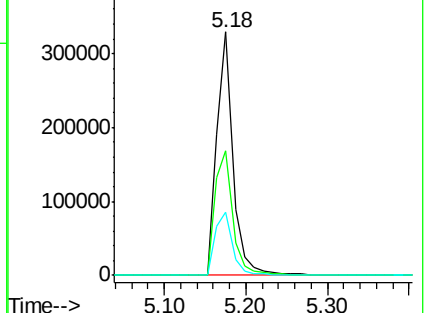
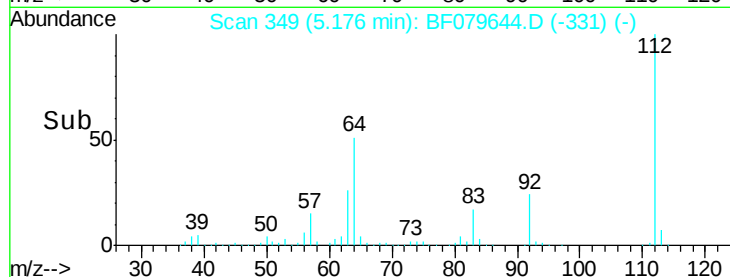
63 26.0 21.8 32.8



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 117.26 ng

RT: 6.51 min Scan# 466

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

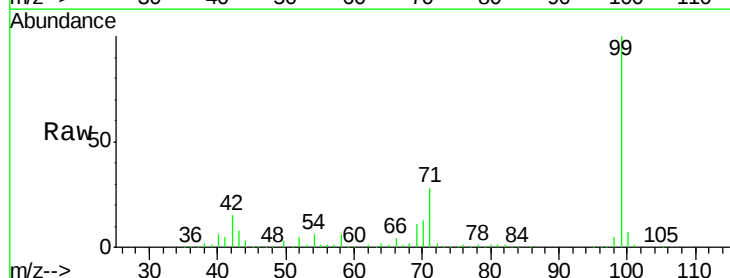
Tgt Ion: 99 Resp: 611979

Ion Ratio Lower Upper

99 100

42 15.0 11.9 17.9

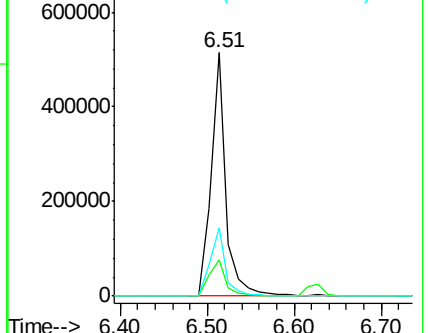
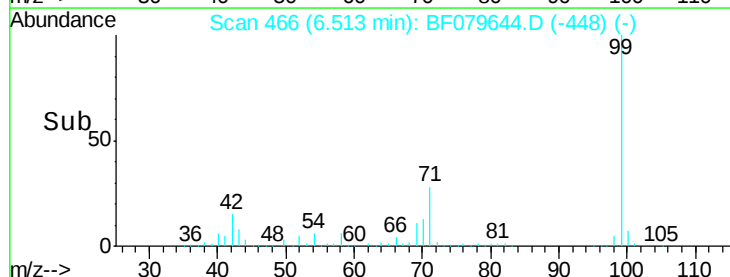
71 28.3 22.1 33.1

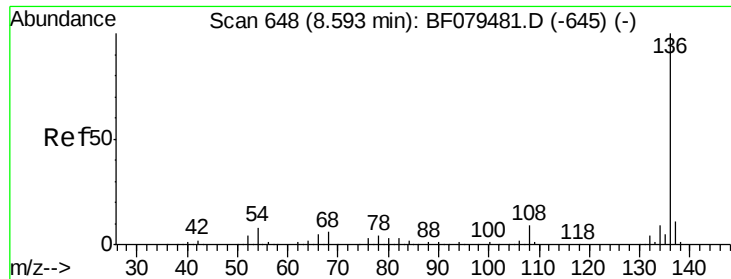


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

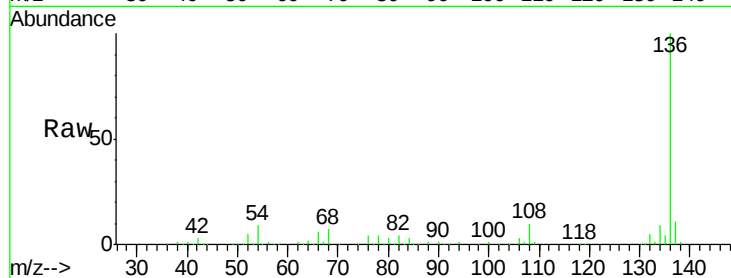




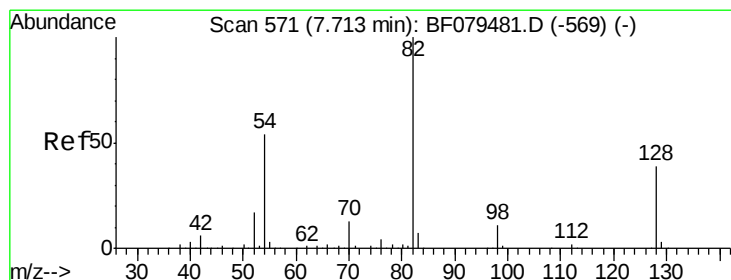
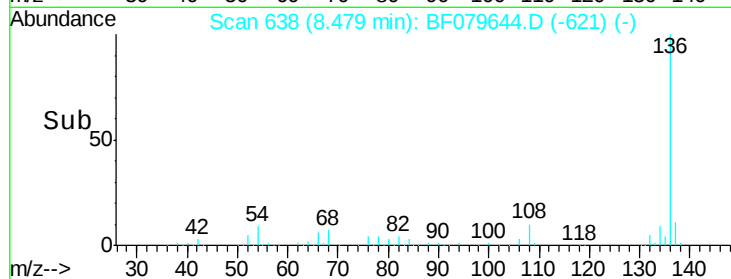
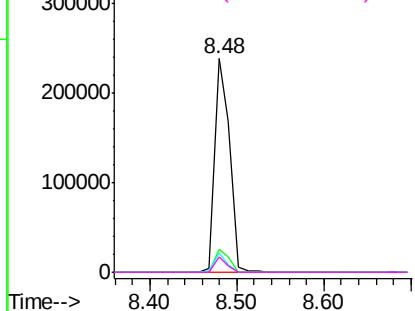
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.48 min Scan# 638  
Delta R.T. -0.00 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

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SB-21S

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 290372 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.5   | 12.7   |
| 54       | 9.0   | 6.6   | 9.8    |
| 68       | 7.1   | 4.7   | 7.1#   |

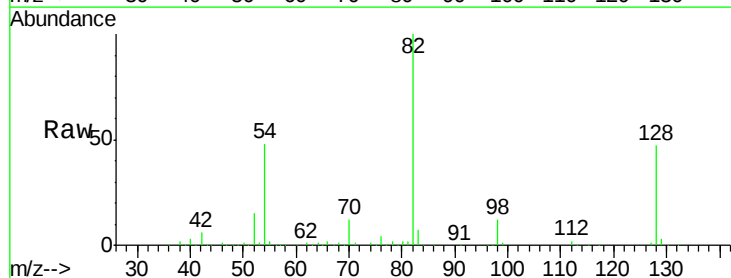


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

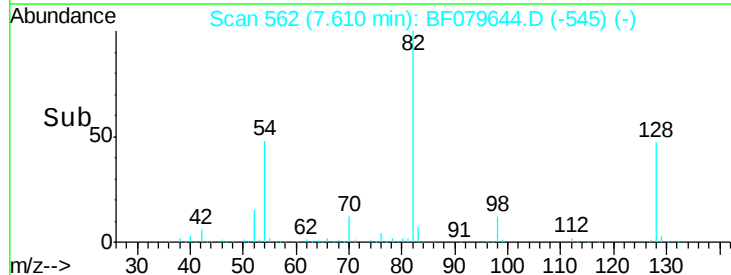
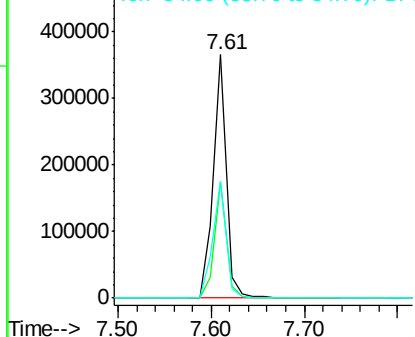


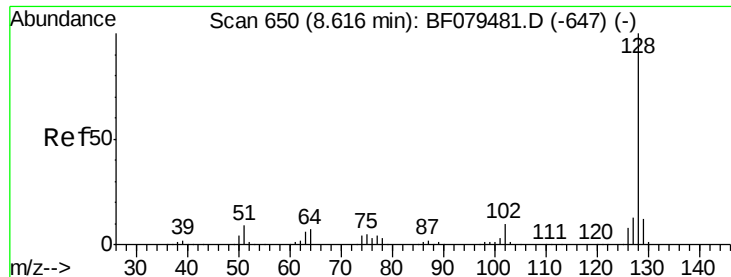
#23  
Nitrobenzene-d5  
Concen: 71.37 ng  
RT: 7.61 min Scan# 562  
Delta R.T. -0.00 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 358514 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.4  | 30.8  | 46.2#  |
| 54       | 48.0  | 42.8  | 64.2   |



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

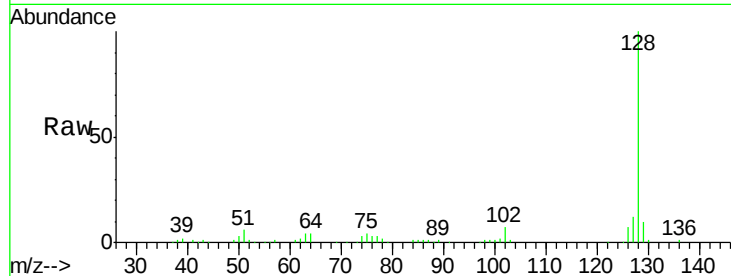




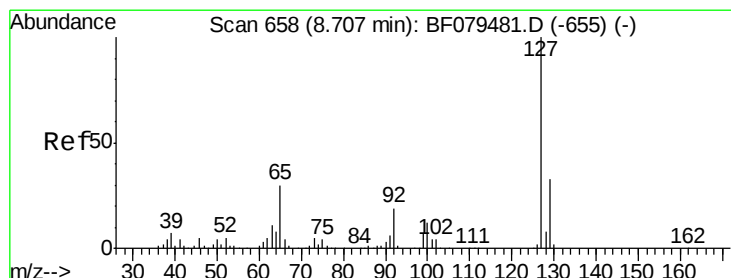
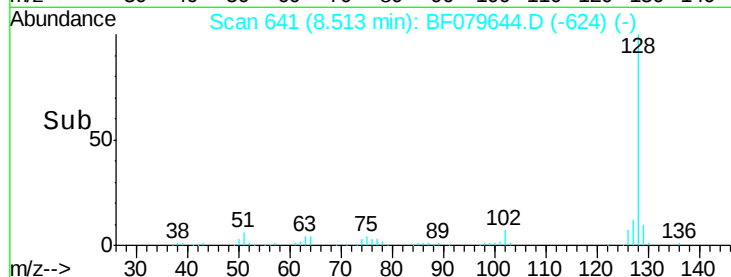
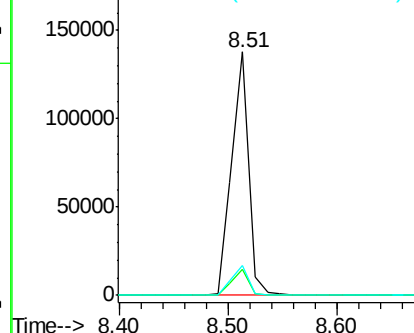
#31  
Naphthalene  
Concen: 10.65 ng  
RT: 8.51 min Scan# 641  
Delta R.T. -0.00 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

Instrument :  
BNA\_F  
ClientSampleId :  
SB-21S

Tgt Ion:128 Resp: 148345  
Ion Ratio Lower Upper  
128 100  
129 10.4 9.3 13.9  
127 12.1 10.6 15.8

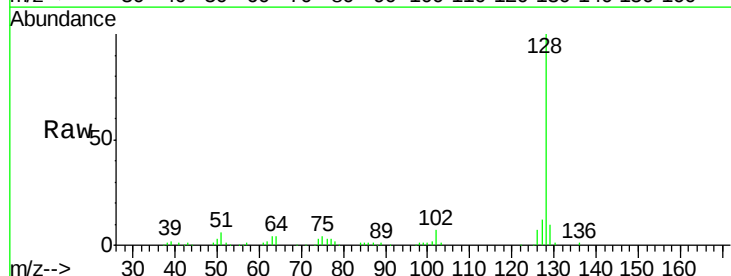


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

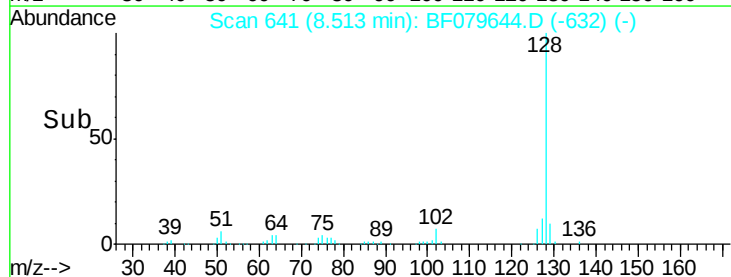
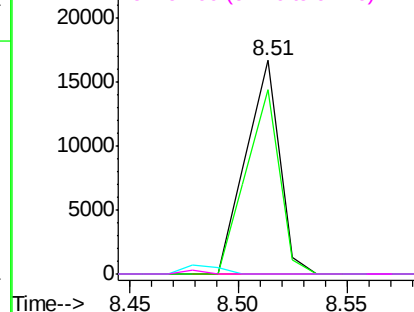


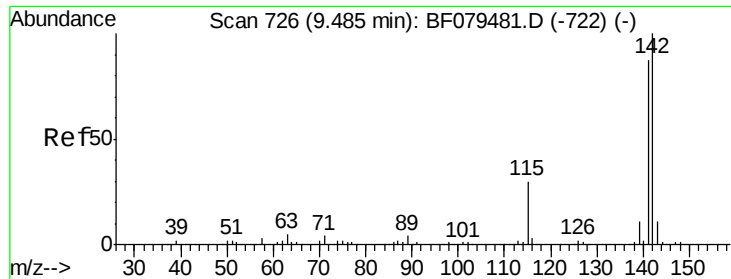
#33  
4-Chloroaniline  
Concen: 3.09 ng  
RT: 8.51 min Scan# 641  
Delta R.T. -0.09 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

Tgt Ion:127 Resp: 17962  
Ion Ratio Lower Upper  
127 100  
129 86.2 26.2 39.2#  
65 0.0 24.2 36.4#  
92 0.0 15.4 23.0#



Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0

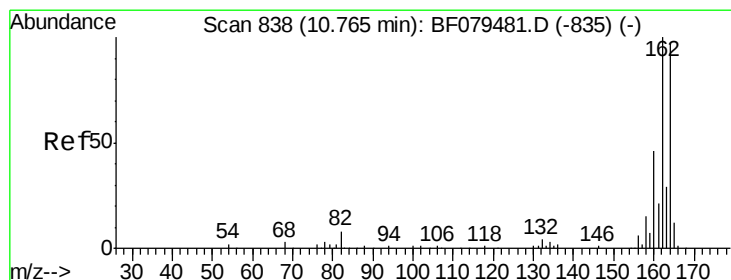
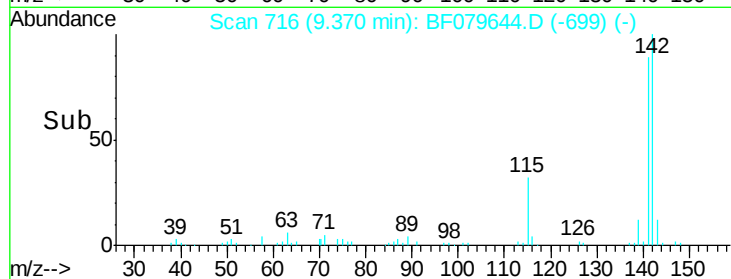
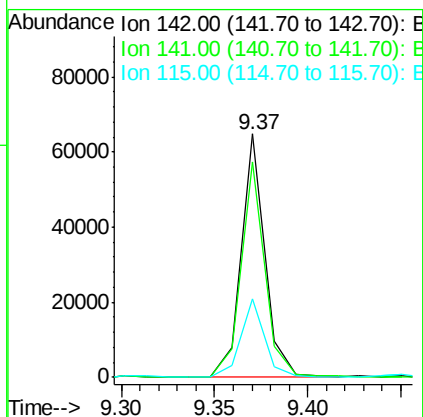
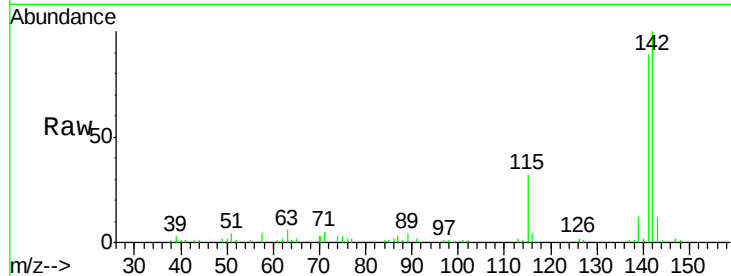




#37  
 2-Methylnaphthalene  
 Concen: 5.96 ng  
 RT: 9.37 min Scan# 716  
 Delta R.T. -0.00 min  
 Lab File: BF079644.D  
 Acq: 31 May 2015 20:33

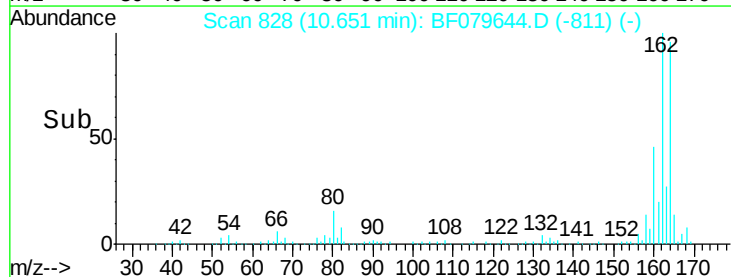
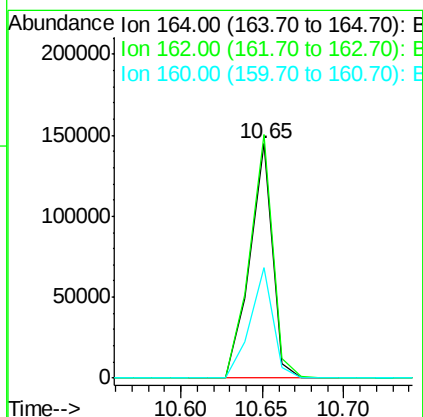
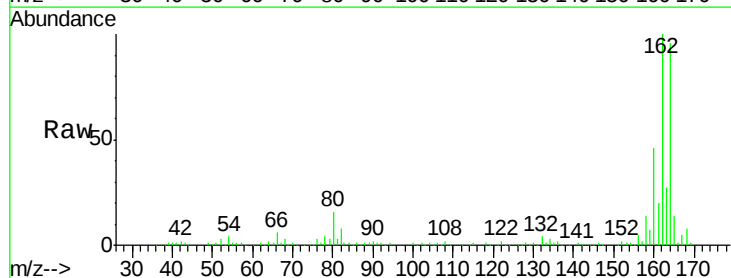
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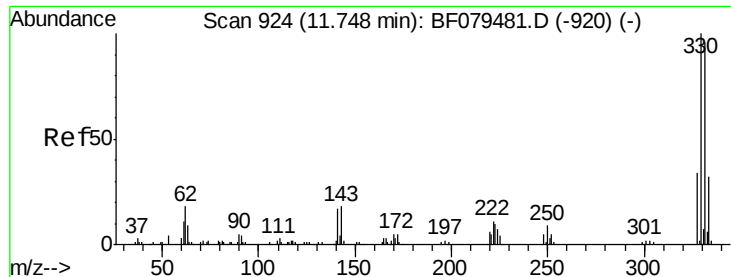
Tgt Ion:142 Resp: 57633  
 Ion Ratio Lower Upper  
 142 100  
 141 88.5 69.5 104.3  
 115 32.5 23.8 35.6



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.65 min Scan# 828  
 Delta R.T. -0.00 min  
 Lab File: BF079644.D  
 Acq: 31 May 2015 20:33

Tgt Ion:164 Resp: 140283  
 Ion Ratio Lower Upper  
 164 100  
 162 103.8 82.6 124.0  
 160 47.3 37.7 56.5

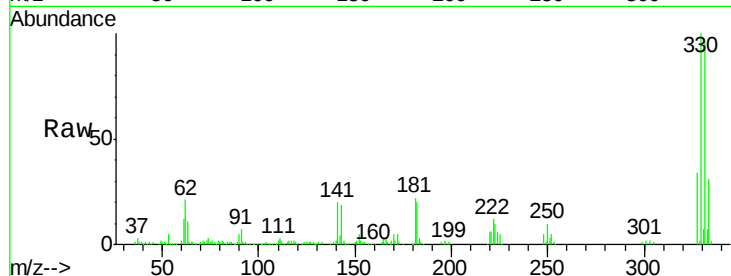




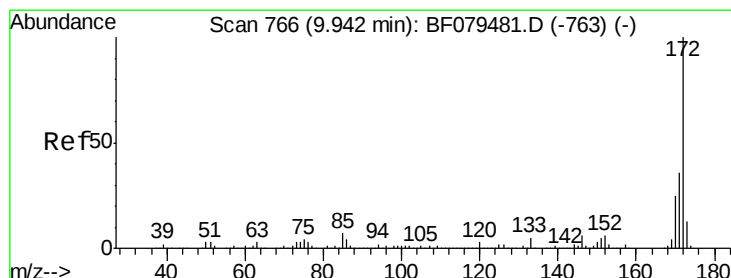
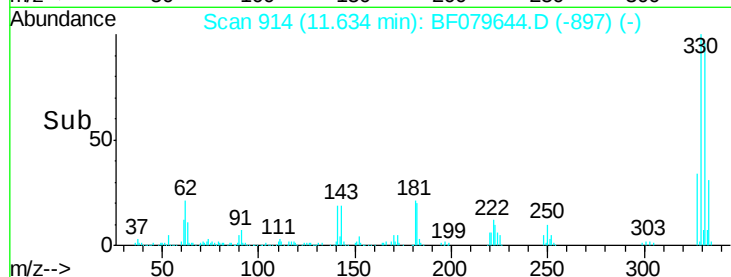
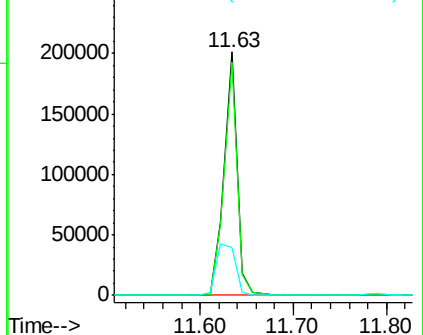
#41  
 2,4,6-Tribromophenol  
 Concen: 127.34 ng  
 RT: 11.63 min Scan# 914  
 Delta R.T. -0.00 min  
 Lab File: BF079644.D  
 Acq: 31 May 2015 20:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-21S

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 0.0   | 0.0#  |
| 141     | 32.5  | 0.0   | 0.0#  |

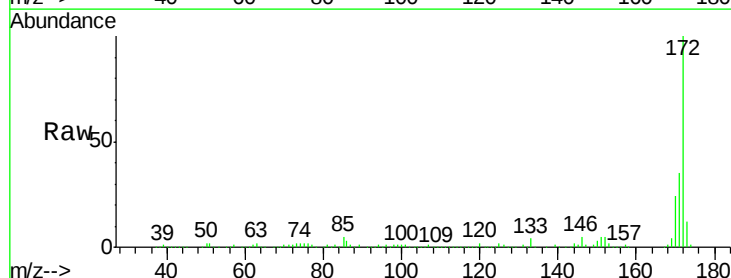


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

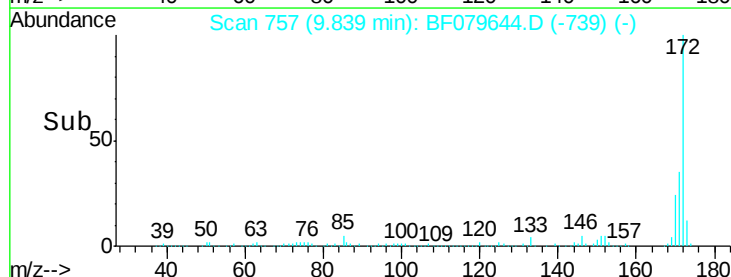
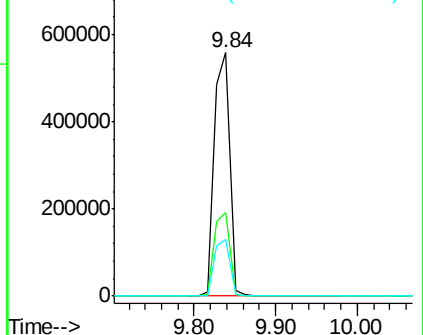


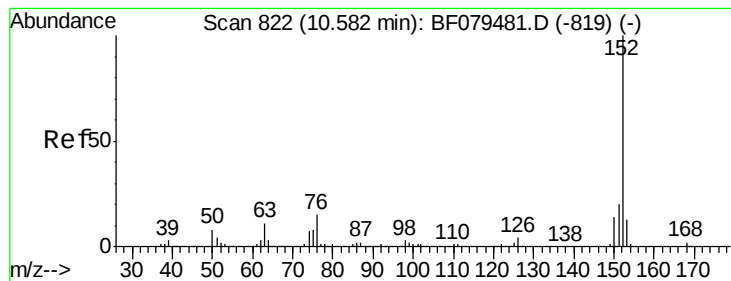
#44  
 2-Fluorobiphenyl  
 Concen: 74.77 ng  
 RT: 9.84 min Scan# 757  
 Delta R.T. 0.01 min  
 Lab File: BF079644.D  
 Acq: 31 May 2015 20:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.6  | 28.5  | 42.7  |
| 170     | 23.5  | 19.7  | 29.5  |



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: 4.05 ng

RT: 10.48 min Scan# 813

Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA\_F

ClientSampleId :

SB-21S

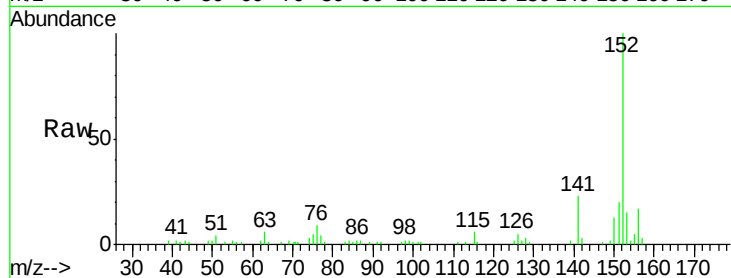
Tgt Ion:152 Resp: 58123

Ion Ratio Lower Upper

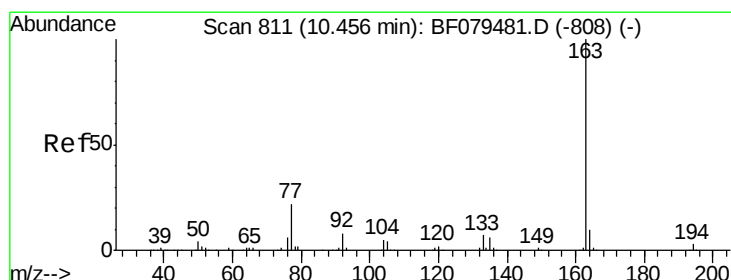
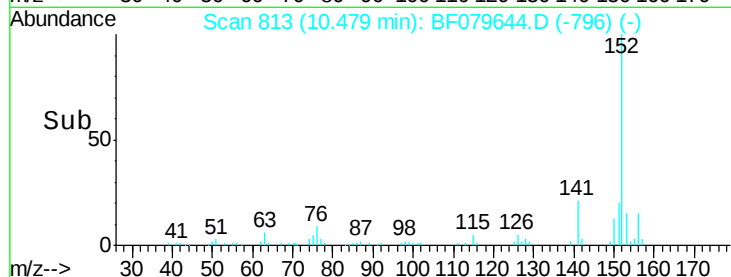
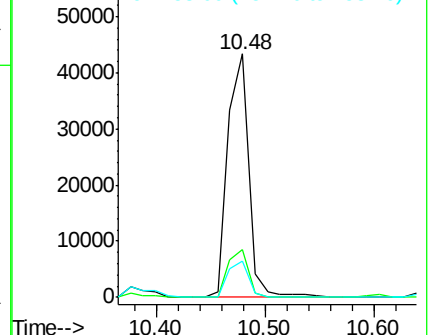
152 100

151 19.9 15.8 23.8

153 15.0 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: 8.28 ng

RT: 10.34 min Scan# 801

Delta R.T. -0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

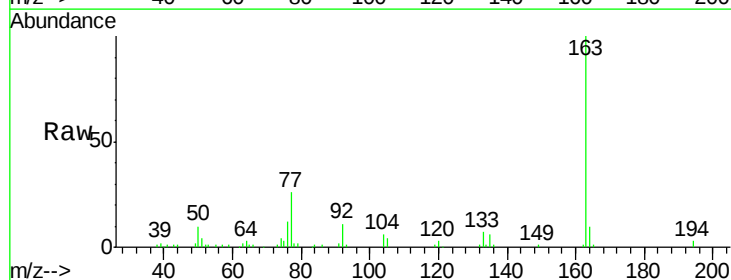
Tgt Ion:163 Resp: 85627

Ion Ratio Lower Upper

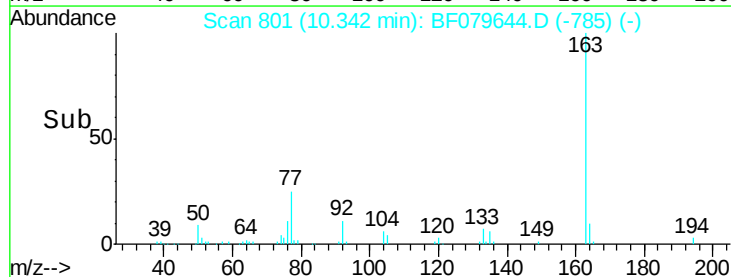
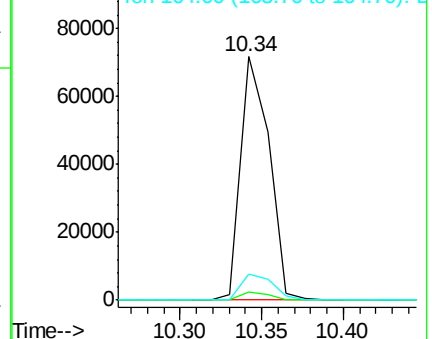
163 100

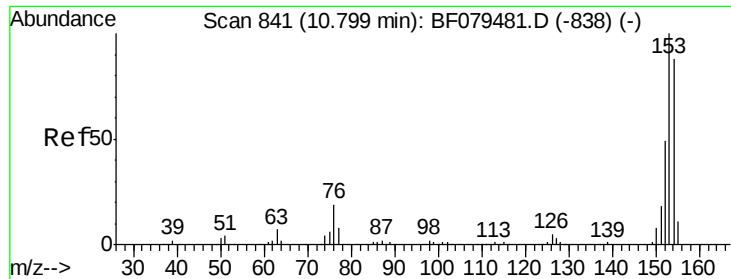
194 3.1 2.4 3.6

164 10.5 8.2 12.4



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

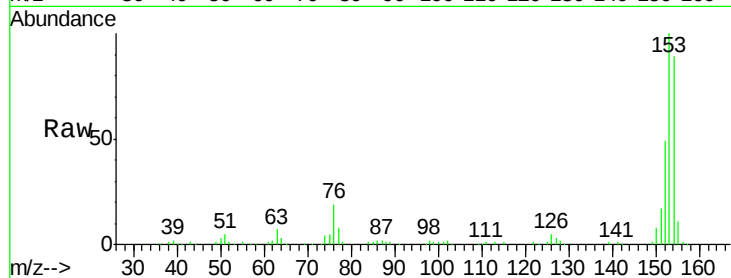




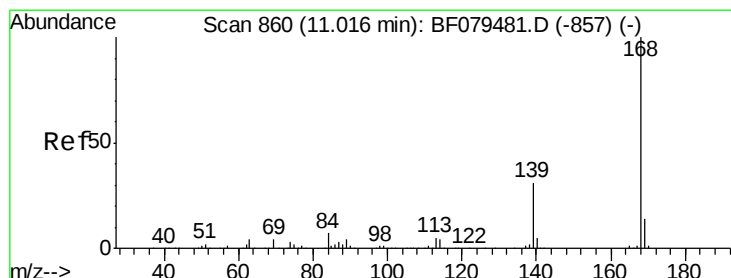
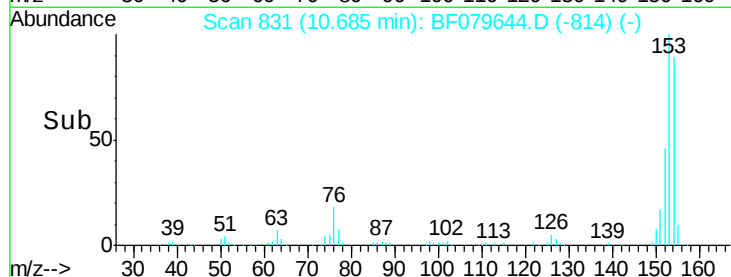
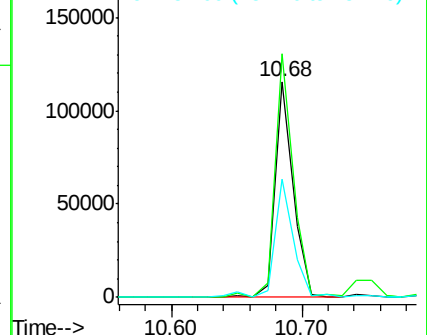
#51  
Acenaphthene  
Concen: 13.62 ng  
RT: 10.68 min Scan# 831  
Delta R.T. -0.00 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

Instrument :  
BNA\_F  
ClientSampleId :  
SB-21S

Tgt Ion:154 Resp: 111885  
Ion Ratio Lower Upper  
154 100  
153 112.7 91.1 136.7  
152 54.7 44.6 66.8

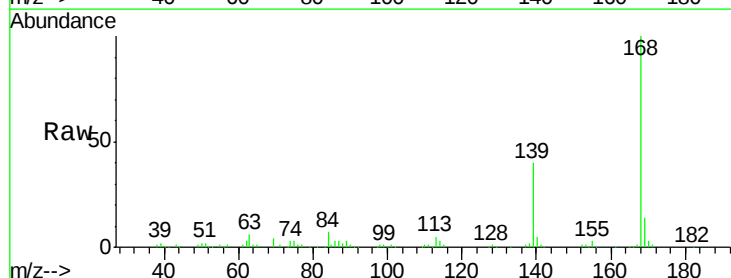


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

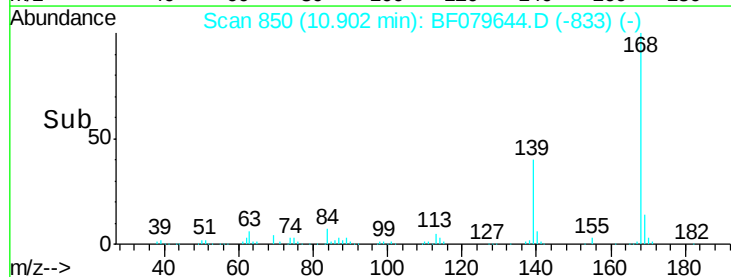
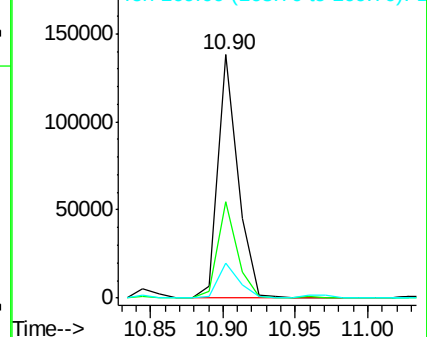


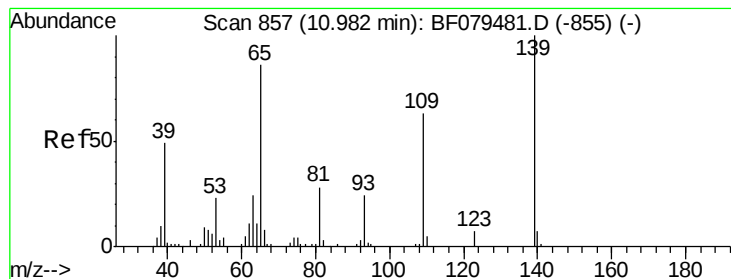
#54  
Dibenzofuran  
Concen: 10.96 ng  
RT: 10.90 min Scan# 850  
Delta R.T. -0.00 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

Tgt Ion:168 Resp: 132773  
Ion Ratio Lower Upper  
168 100  
139 39.6 32.9 49.3  
169 14.2 11.1 16.7



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: 34.45 ng

RT: 10.90 min Scan# 850

Delta R.T. 0.03 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA\_F

ClientSampleId :

SB-21S

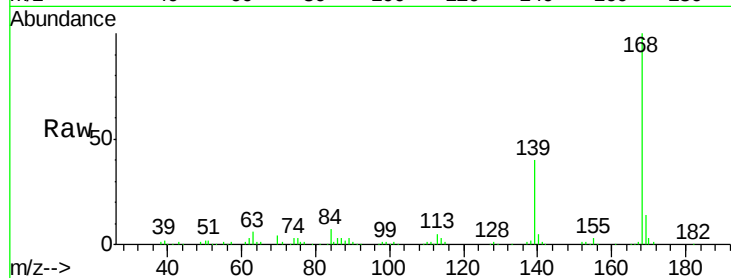
Tgt Ion:139 Resp: 51309

Ion Ratio Lower Upper

139 100

109 1.0 42.8 82.8#

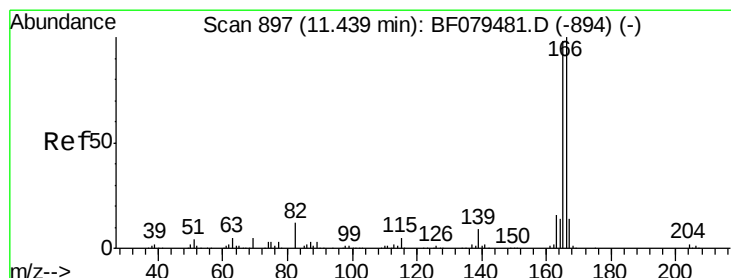
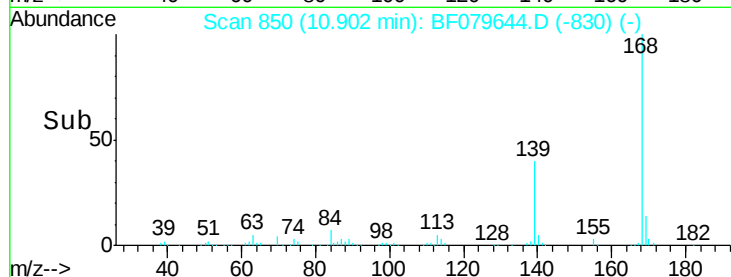
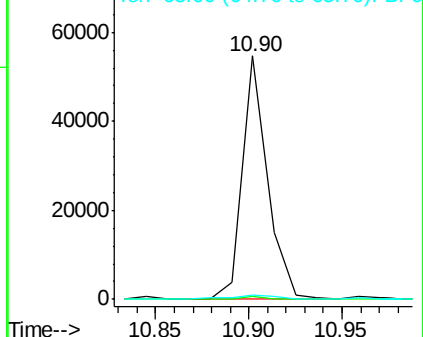
65 1.6 66.3 106.3#



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: 12.30 ng

RT: 11.32 min Scan# 887

Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

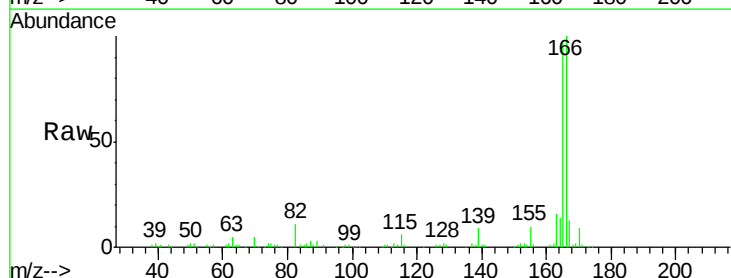
Tgt Ion:166 Resp: 122849

Ion Ratio Lower Upper

166 100

165 97.5 78.6 117.8

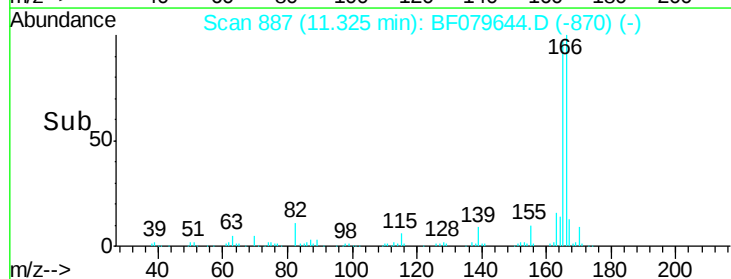
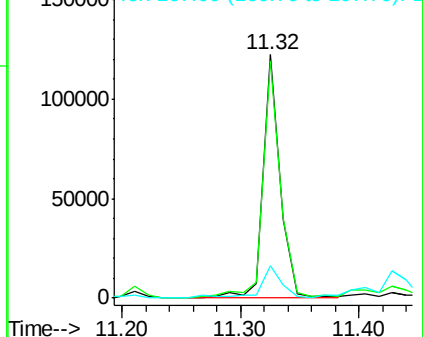
167 13.4 10.8 16.2

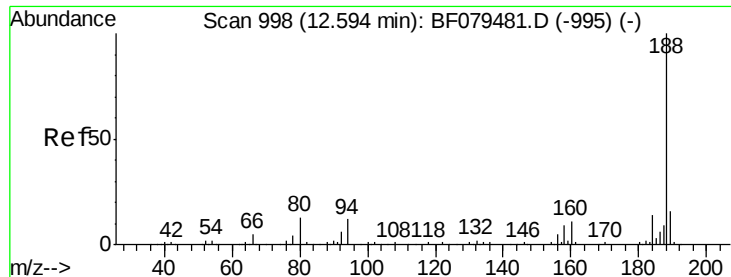


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

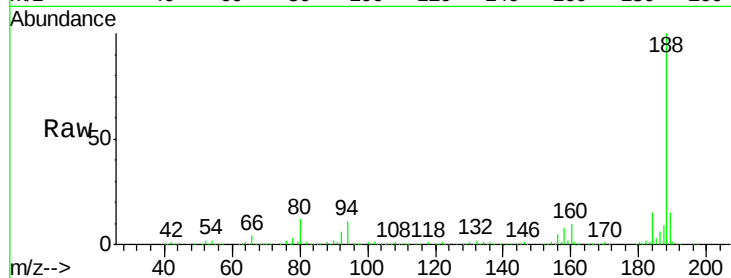




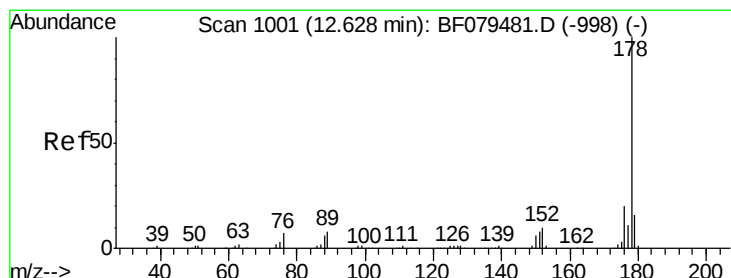
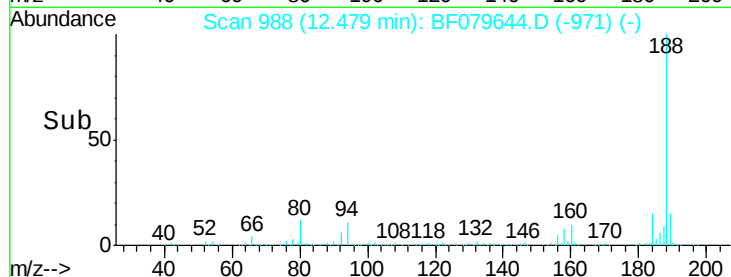
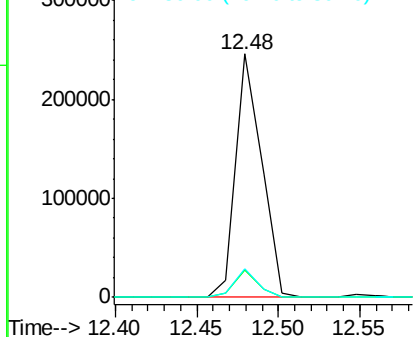
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.48 min Scan# 988  
 Delta R.T. -0.00 min  
 Lab File: BF079644.D  
 Acq: 31 May 2015 20:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-21S

Tgt Ion:188 Resp: 270262  
 Ion Ratio Lower Upper  
 188 100  
 94 11.0 9.8 14.6  
 80 11.9 10.5 15.7

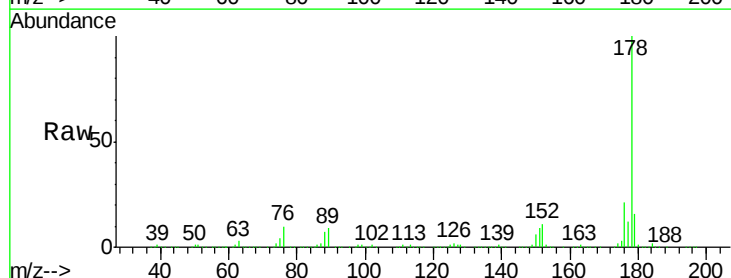


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

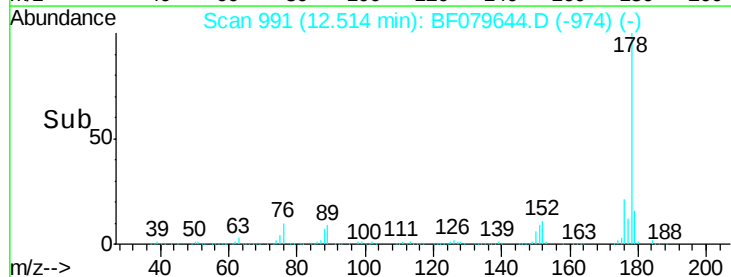
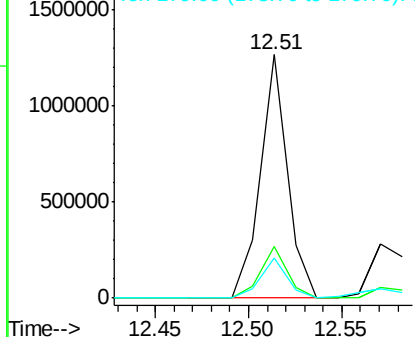


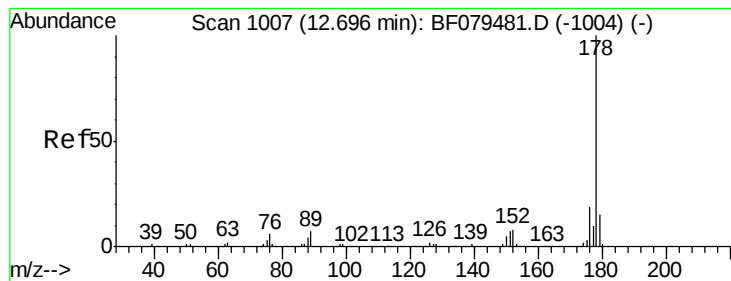
#70  
 Phenanthrene  
 Concen: 85.78 ng  
 RT: 12.51 min Scan# 991  
 Delta R.T. -0.00 min  
 Lab File: BF079644.D  
 Acq: 31 May 2015 20:33

Tgt Ion:178 Resp: 1271881  
 Ion Ratio Lower Upper  
 178 100  
 176 21.1 15.7 23.5  
 179 16.3 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





#71

Anthracene

Concen: 23.73 ng

RT: 12.57 min Scan# 996

Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA\_F

ClientSampleId :

SB-21S

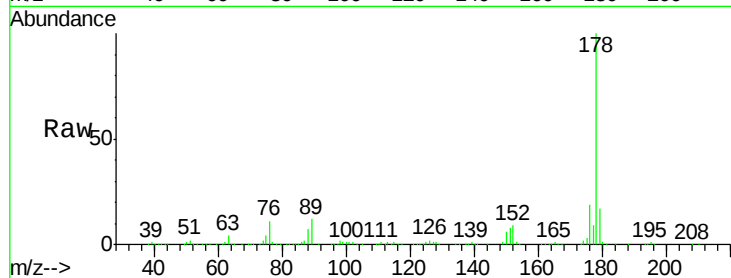
Tgt Ion:178 Resp: 357159

Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

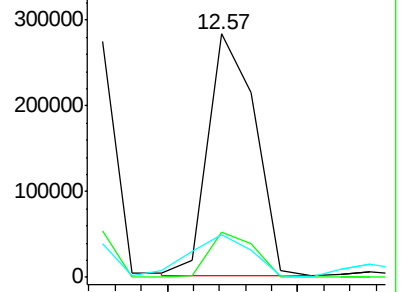
179 17.4 12.2 18.4



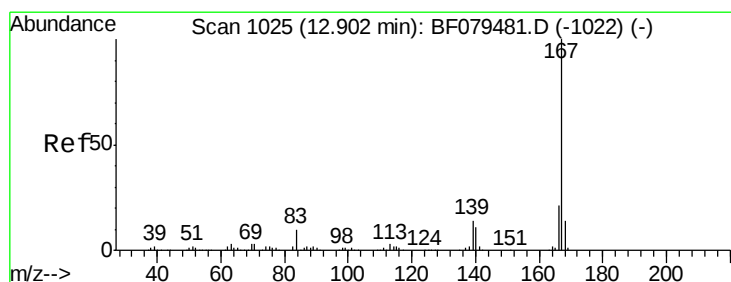
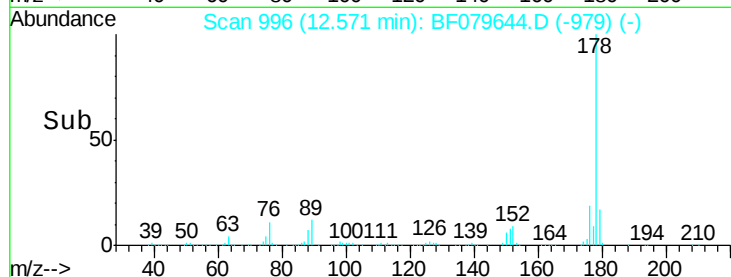
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#72

Carbazole

Concen: 10.68 ng

RT: 12.79 min Scan# 1015

Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

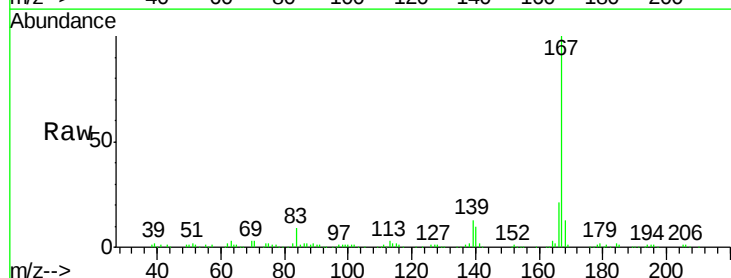
Tgt Ion:167 Resp: 154757

Ion Ratio Lower Upper

167 100

166 20.9 17.0 25.4

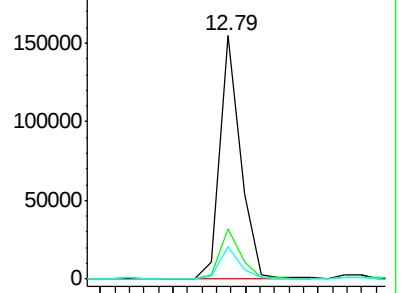
139 13.2 11.2 16.8



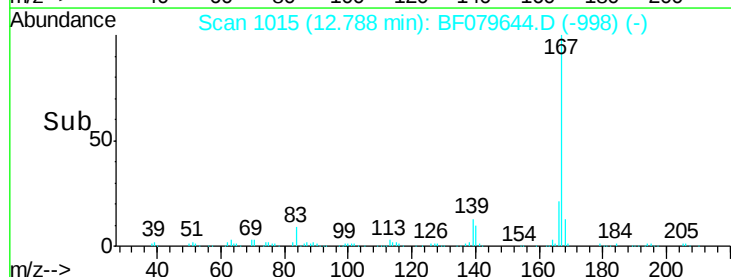
Abundance Ion 167.00 (166.70 to 167.70): E

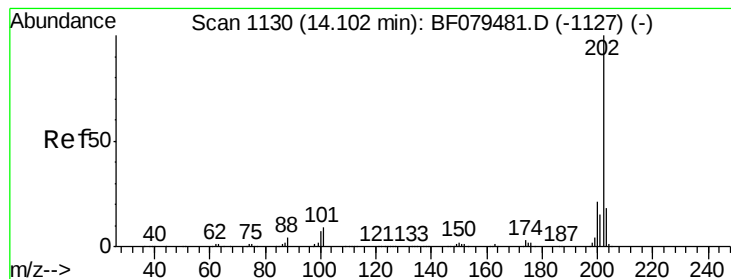
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time-->





#74

Fluoranthene

Concen: 83.81 ng

RT: 13.99 min Scan# 1120

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA\_F

ClientSampleId :

SB-21S

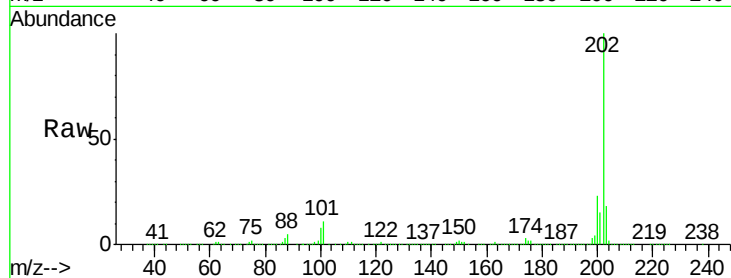
Tgt Ion:202 Resp: 1332616

Ion Ratio Lower Upper

202 100

101 11.5 0.0 29.3

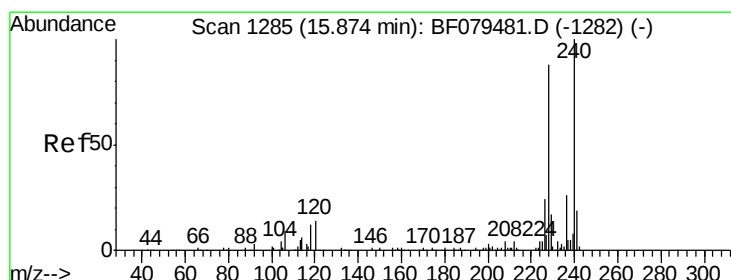
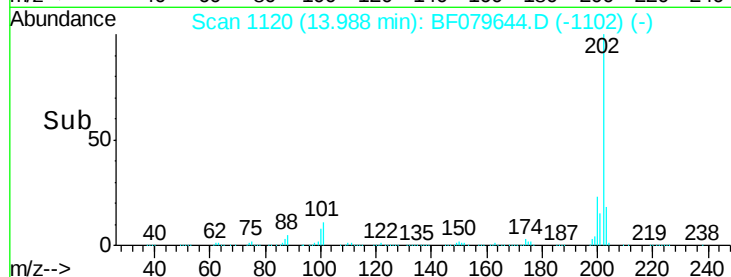
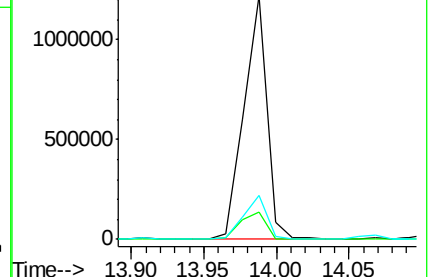
203 18.2 0.0 37.6



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: 15.76 min Scan# 1275

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

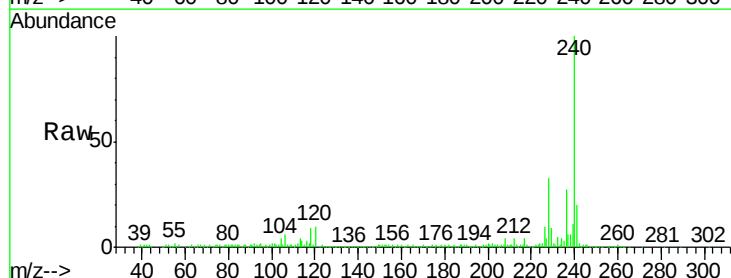
Tgt Ion:240 Resp: 274805

Ion Ratio Lower Upper

240 100

120 10.3 10.8 16.2#

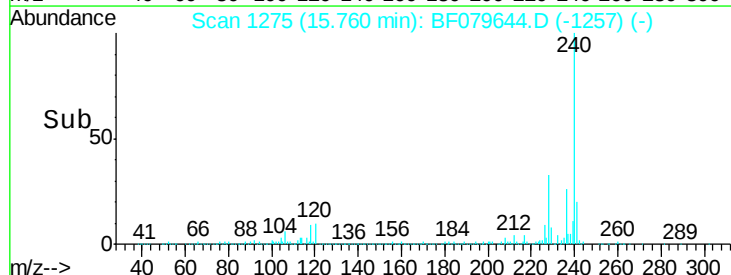
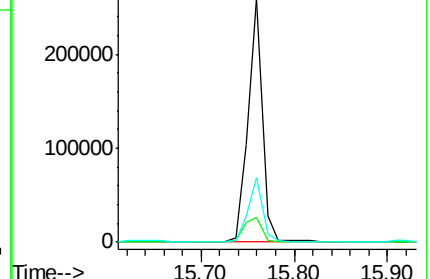
236 26.5 21.0 31.6

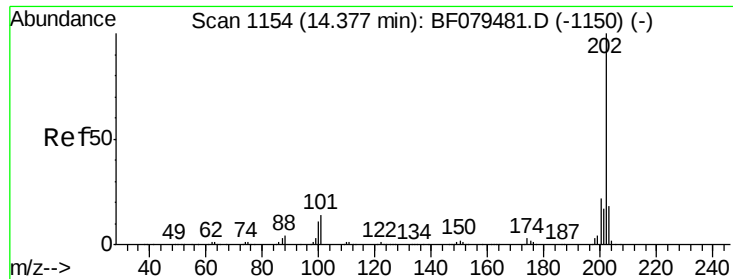


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 68.96 ng

RT: 14.26 min Scan# 1144

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA\_F

ClientSampleId :

SB-21S

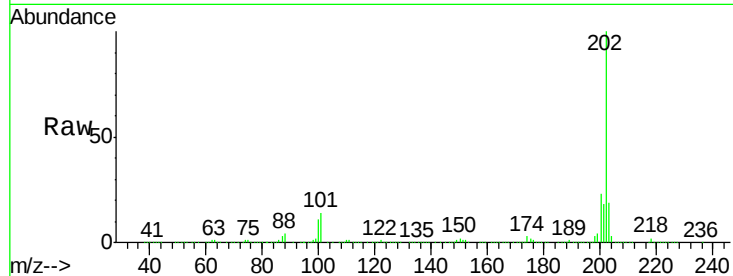
Tgt Ion:202 Resp: 1174082

Ion Ratio Lower Upper

202 100

200 22.6 17.5 26.3

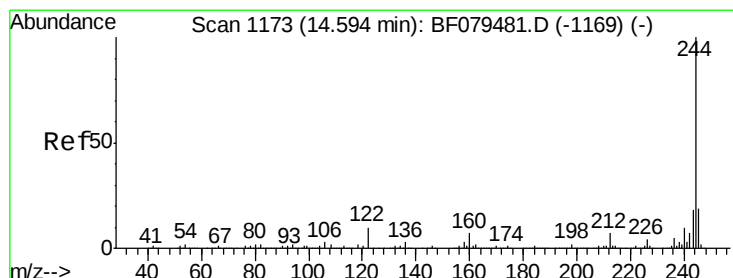
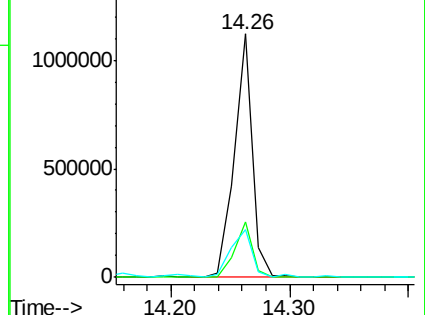
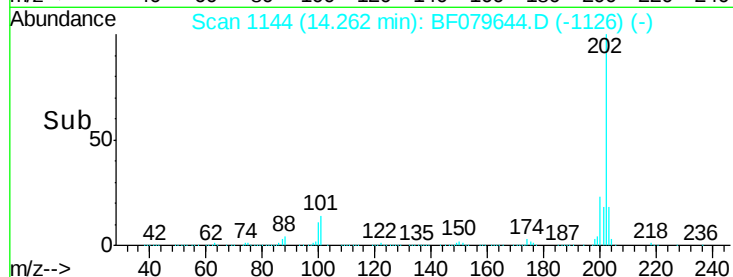
203 19.4 14.4 21.6



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: 70.16 ng

RT: 14.48 min Scan# 1163

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

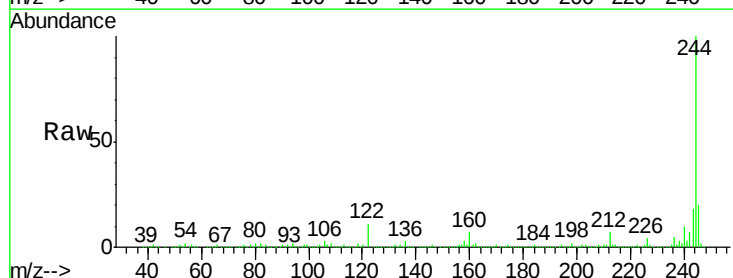
Tgt Ion:244 Resp: 821516

Ion Ratio Lower Upper

244 100

212 6.8 5.2 7.8

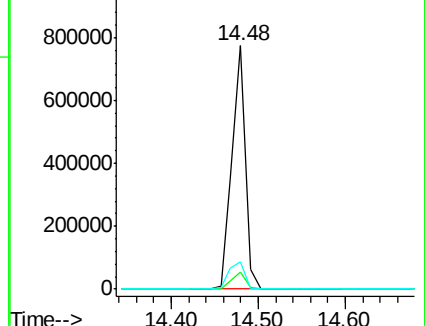
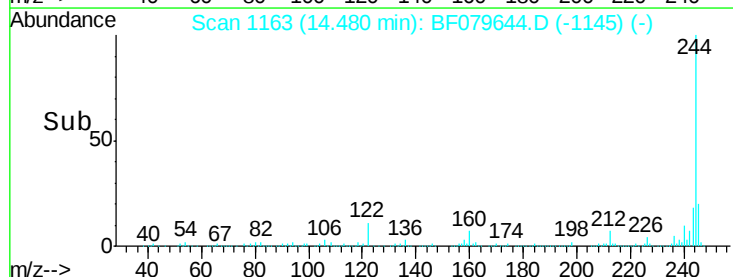
122 11.0 8.0 12.0

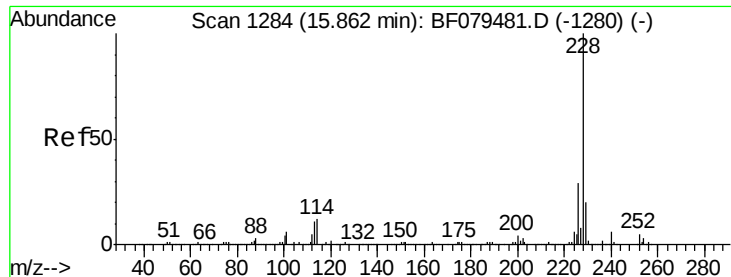


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 43.88 ng

RT: 15.75 min Scan# 1274

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA\_F

ClientSampleId :

SB-21S

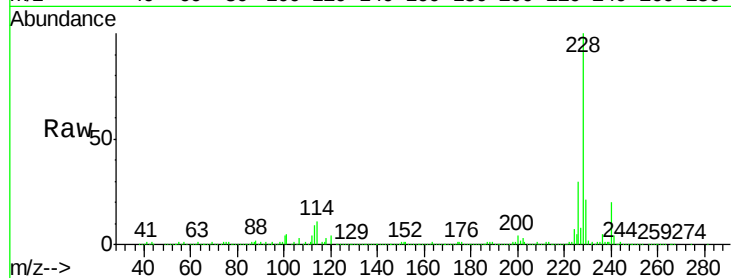
Tgt Ion:228 Resp: 693707

Ion Ratio Lower Upper

228 100

226 29.5 22.8 34.2

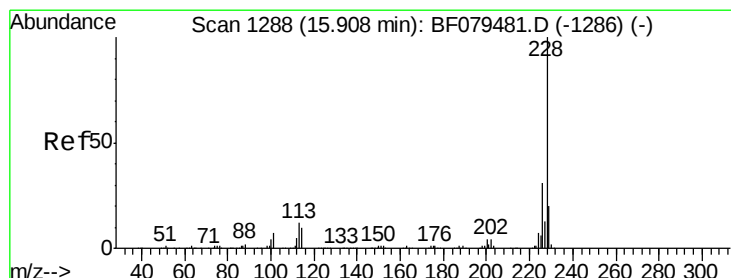
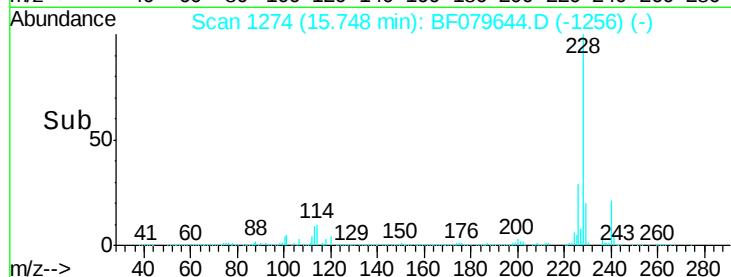
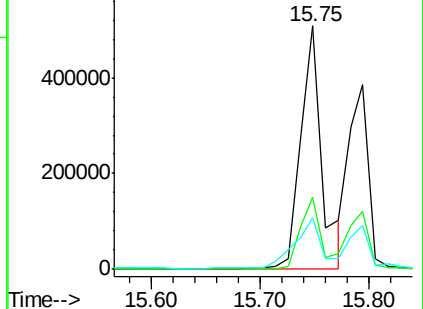
229 21.4 15.9 23.9



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: 32.62 ng

RT: 15.79 min Scan# 1278

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

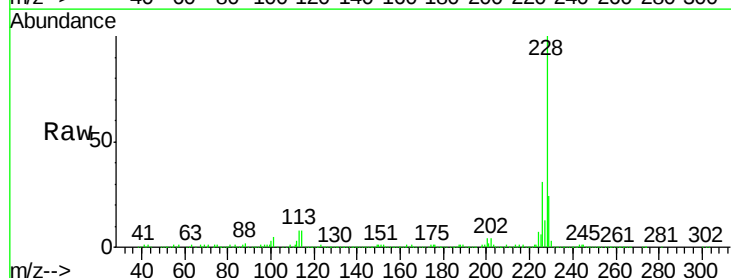
Tgt Ion:228 Resp: 490227

Ion Ratio Lower Upper

228 100

226 31.2 25.0 37.4

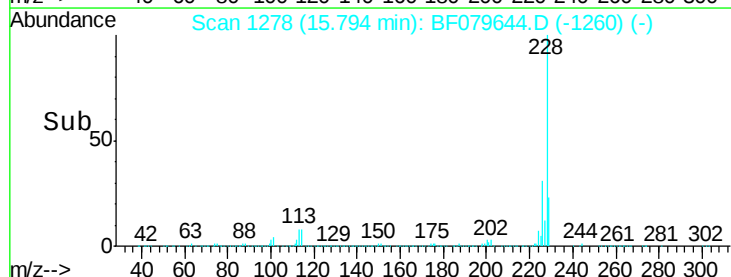
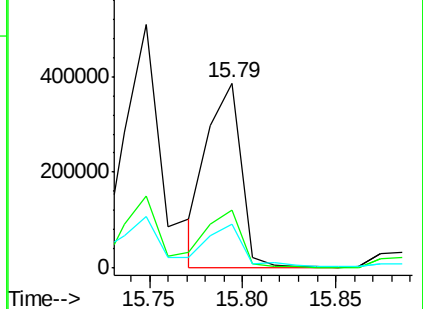
229 23.9 15.9 23.9

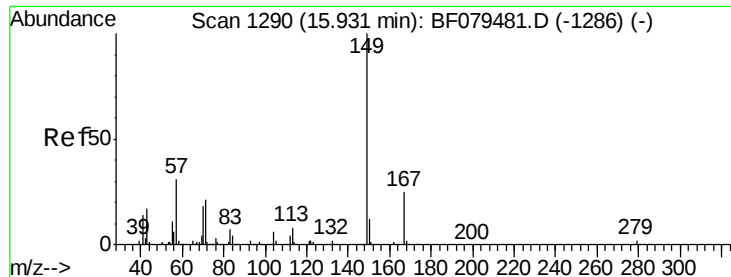


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

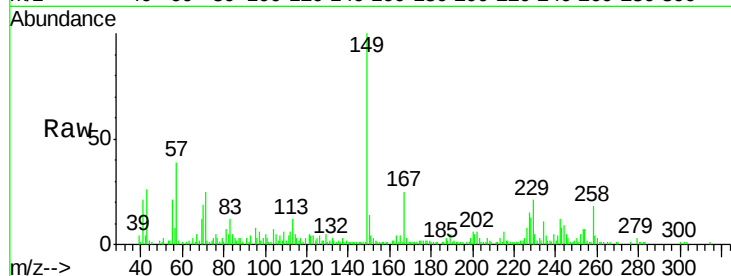




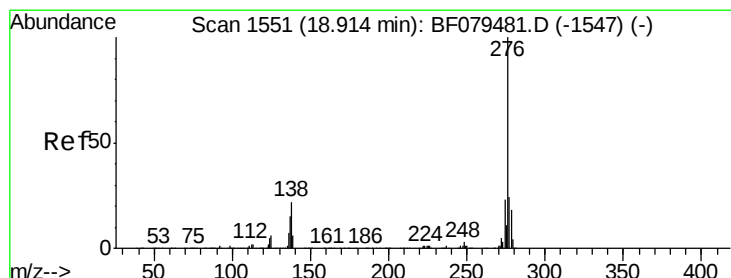
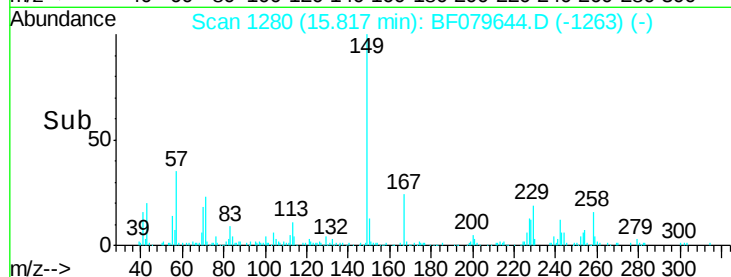
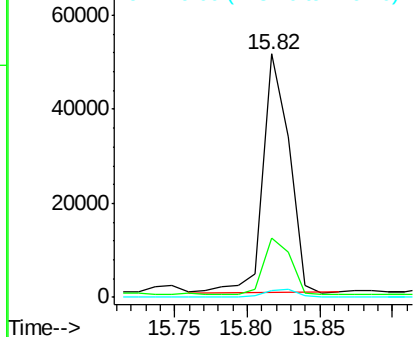
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 5.78 ng  
 RT: 15.82 min Scan# 1280  
 Delta R.T. -0.00 min  
 Lab File: BF079644.D  
 Acq: 31 May 2015 20:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-21S

Tgt Ion:149 Resp: 63396  
 Ion Ratio Lower Upper  
 149 100  
 167 24.6 20.2 30.4  
 279 2.8 2.0 3.0

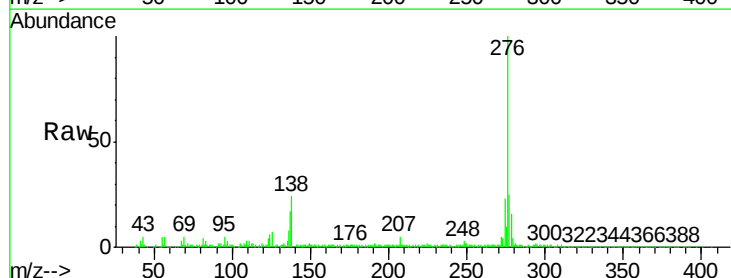


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

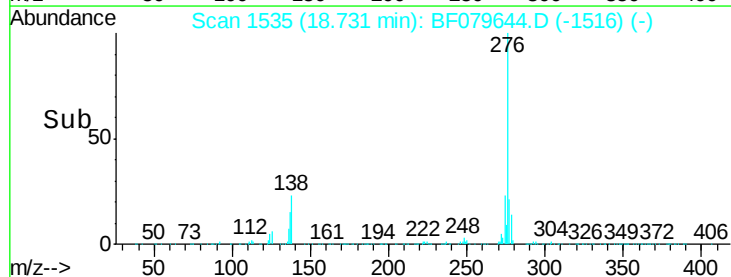
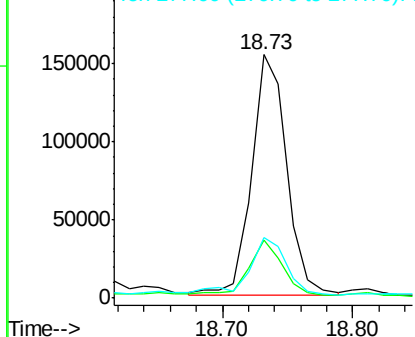


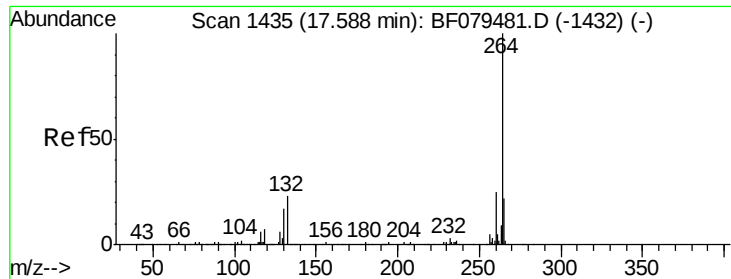
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 14.95 ng  
 RT: 18.73 min Scan# 1535  
 Delta R.T. 0.02 min  
 Lab File: BF079644.D  
 Acq: 31 May 2015 20:33

Tgt Ion:276 Resp: 288914  
 Ion Ratio Lower Upper  
 276 100  
 138 23.1 21.4 32.2  
 277 27.2 19.8 29.6



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

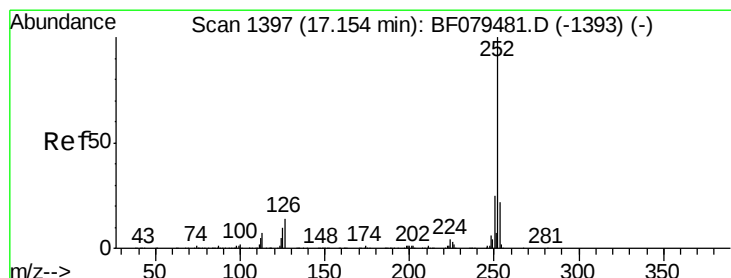
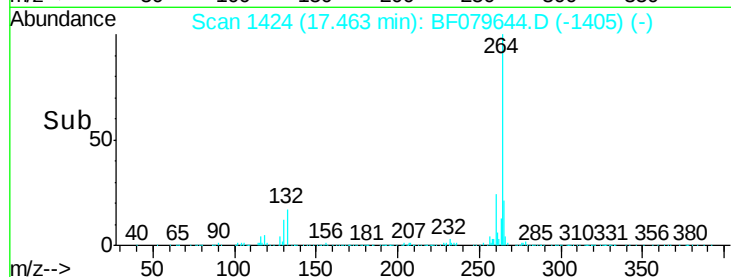
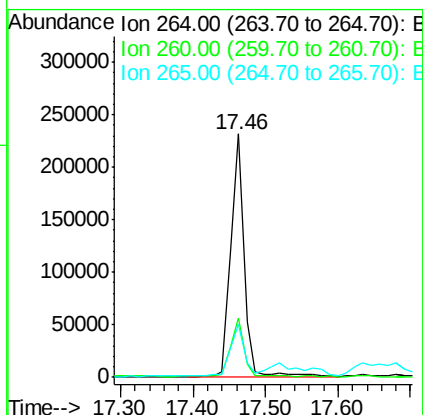
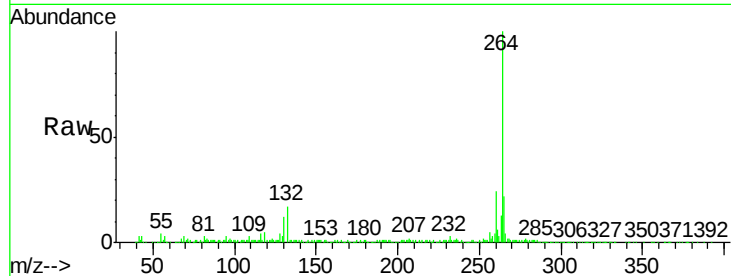




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.46 min Scan# 1424  
Delta R.T. 0.02 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

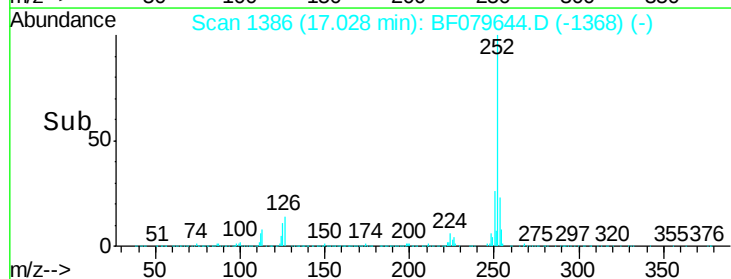
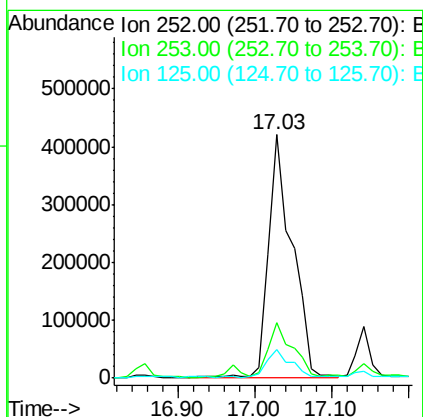
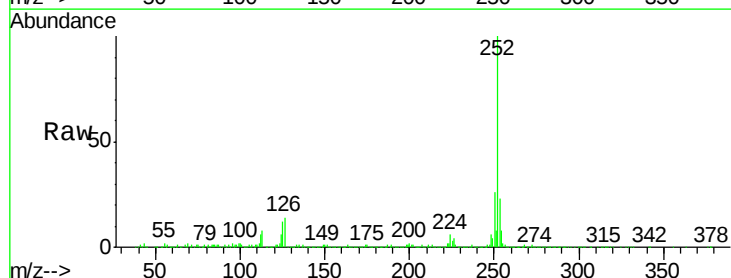
Instrument :  
BNA\_F  
ClientSampleId :  
SB-21S

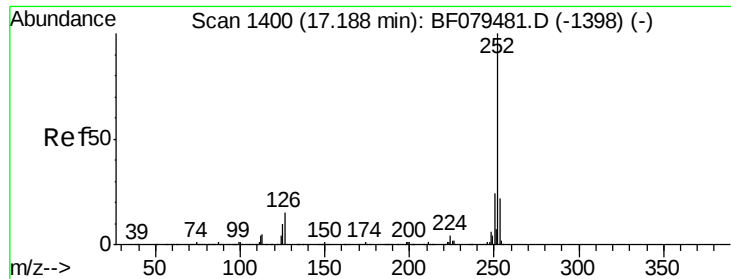
Tgt Ion:264 Resp: 298505  
Ion Ratio Lower Upper  
264 100  
260 24.4 19.8 29.8  
265 21.7 17.8 26.6



#87  
Benzo(b)fluoranthene  
Concen: 52.28 ng  
RT: 17.03 min Scan# 1386  
Delta R.T. 0.01 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

Tgt Ion:252 Resp: 890042  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.6 26.4  
125 11.5 7.8 11.6

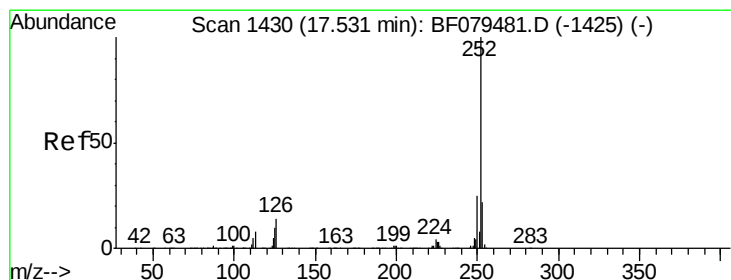
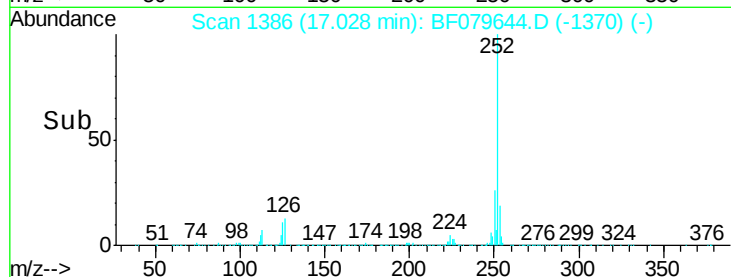
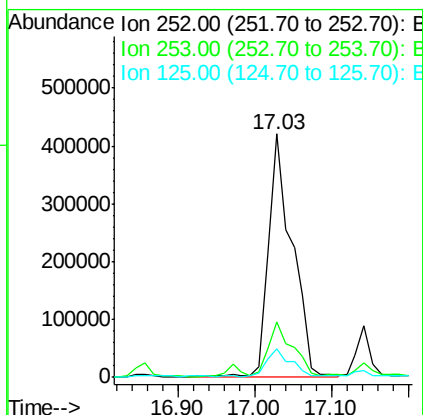
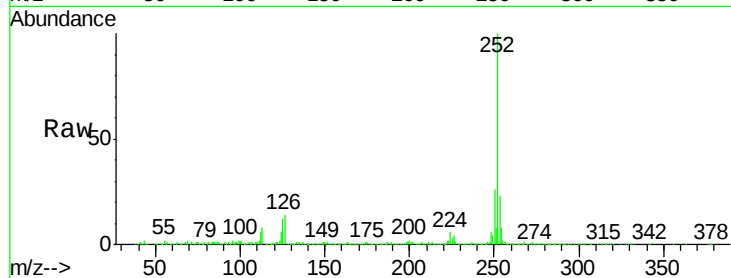




#88  
Benzo(k)fluoranthene  
Concen: 58.46 ng  
RT: 17.03 min Scan# 1386  
Delta R.T. -0.01 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

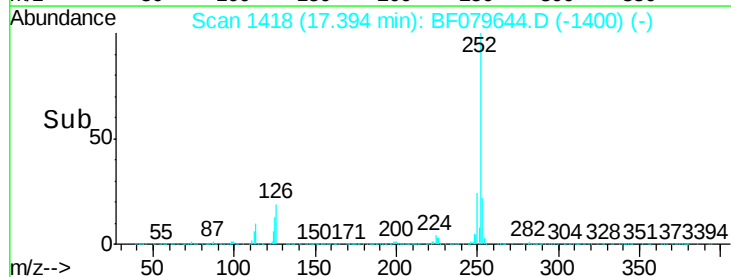
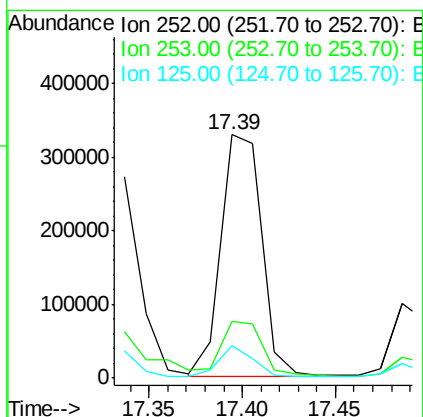
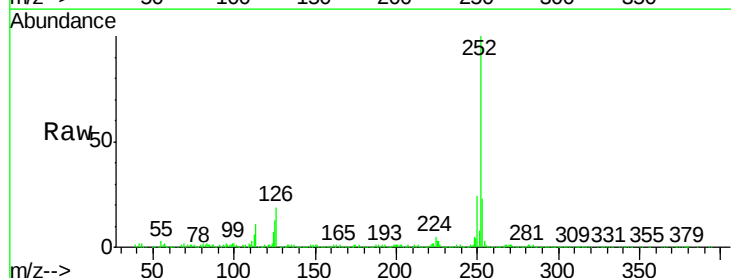
Instrument :  
BNA\_F  
ClientSampleId :  
SB-21S

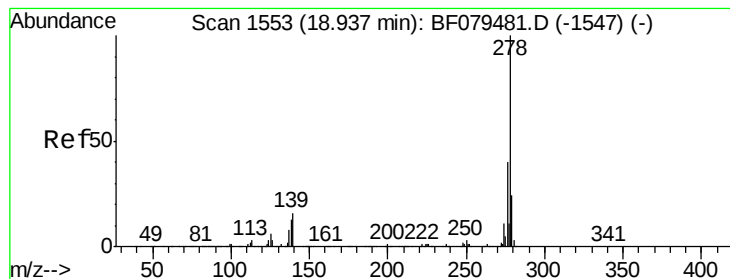
Tgt Ion:252 Resp: 890042  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.2 25.8  
125 11.5 6.8 10.2#



#89  
Benzo(a)pyrene  
Concen: 33.31 ng  
RT: 17.39 min Scan# 1418  
Delta R.T. 0.01 min  
Lab File: BF079644.D  
Acq: 31 May 2015 20:33

Tgt Ion:252 Resp: 504772  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.8 26.8  
125 13.4 7.9 11.9#





#90

Dibenzo(a,h)anthracene

Concen: 3.90 ng

RT: 18.74 min Scan# 1536

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA\_F

ClientSampleId :

SB-21S

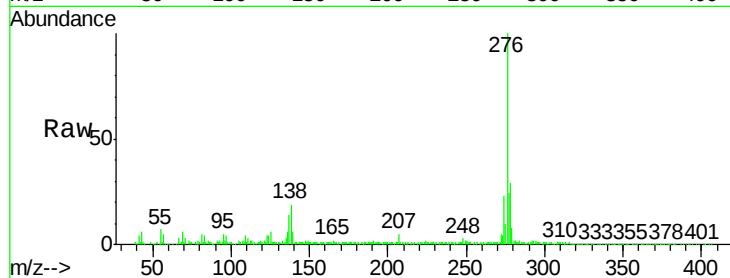
Tgt Ion: 278 Resp: 82669

Ion Ratio Lower Upper

278 100

139 21.0 12.8 19.2#

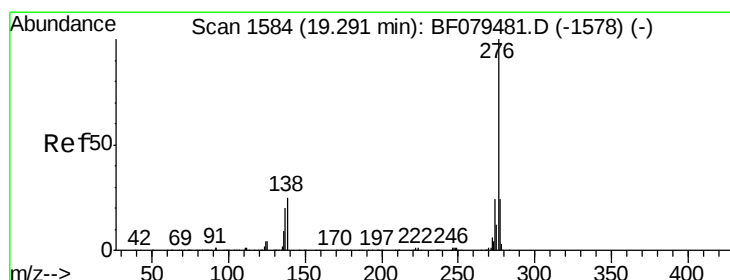
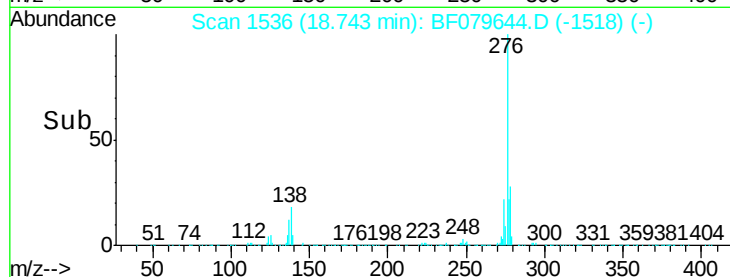
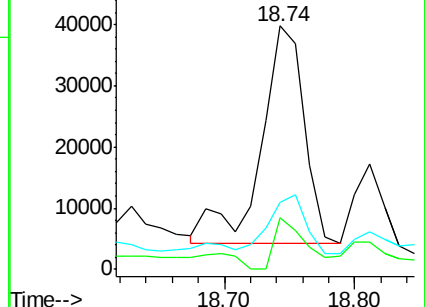
279 27.8 19.1 28.7



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: 15.58 ng

RT: 19.11 min Scan# 1568

Delta R.T. 0.03 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

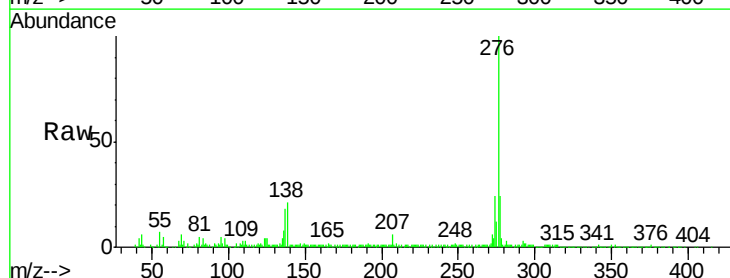
Tgt Ion: 276 Resp: 260221

Ion Ratio Lower Upper

276 100

277 24.5 19.1 28.7

138 21.4 20.1 30.1



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

