

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040615\  
 Data File : BF078286.D  
 Acq On : 7 Apr 2015 6:33  
 Operator : TP/IZ  
 Sample : G1779-01  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2(1-3)

Quant Time: Apr 07 07:03:37 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 07 04:11:17 2015  
 Response via : Initial Calibration

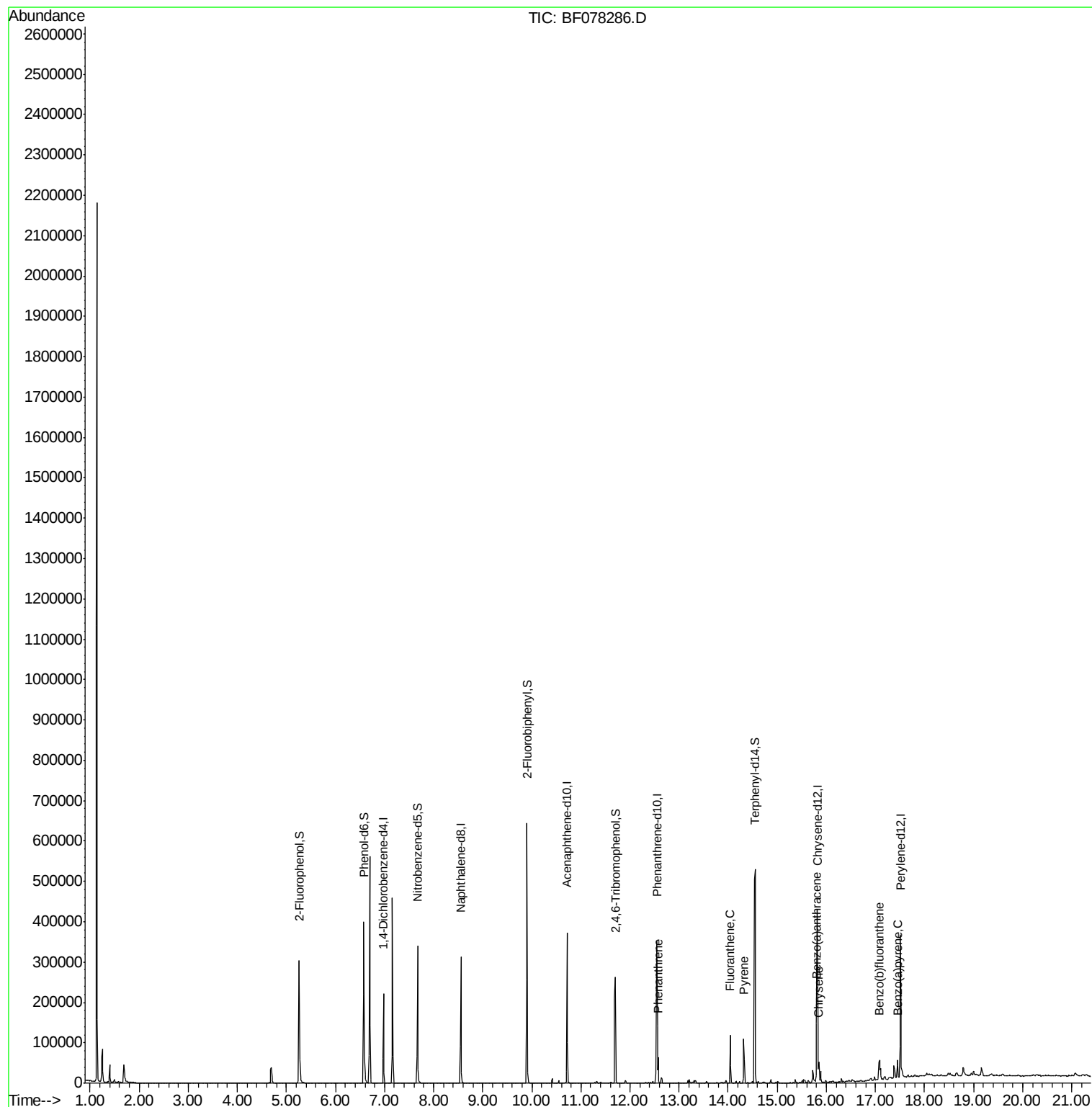
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.98  | 152  | 37533    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.56  | 136  | 155085   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.72 | 164  | 78830    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.55 | 188  | 149726   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 15.81 | 240  | 165108   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 17.51 | 264  | 163623   | 20.00 | ng    | 0.03     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.26  | 112  | 146477   | 64.35 | ng    | 0.01     |
| 7) Phenol-d6                | 6.58  | 99   | 190201   | 66.67 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.68  | 82   | 110186   | 43.06 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.70 | 330  | 42550    | 65.08 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.90  | 172  | 233371   | 42.32 | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.55 | 244  | 271897   | 37.21 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 70) Phenanthrene            | 12.58 | 178  | 30959    | 3.57  | ng    | 99       |
| 74) Fluoranthene            | 14.04 | 202  | 56726    | 6.21  | ng    | 96       |
| 77) Pyrene                  | 14.32 | 202  | 53385    | 5.15  | ng    | 99       |
| 80) Benzo(a)anthracene      | 15.80 | 228  | 29010m   | 2.95  | ng    |          |
| 82) Chrysene                | 15.85 | 228  | 23894    | 2.59  | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 17.08 | 252  | 32170m   | 3.18  | ng    |          |
| 89) Benzo(a)pyrene          | 17.45 | 252  | 21804    | 2.47  | ng    | 95       |

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

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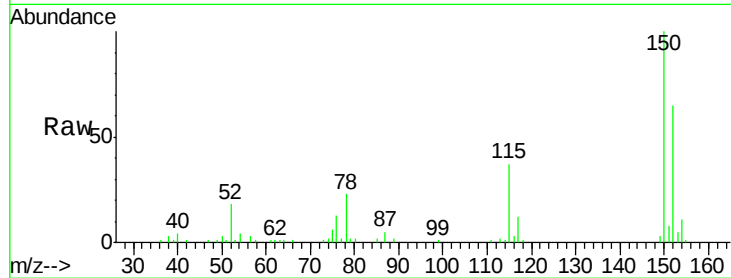




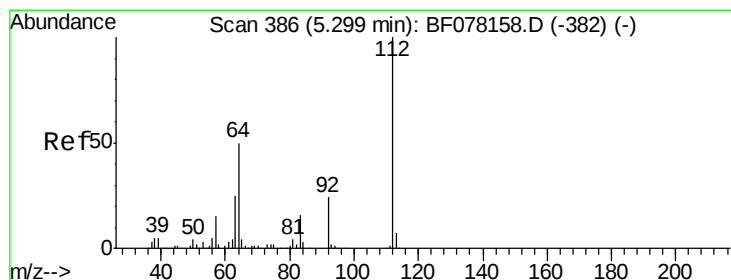
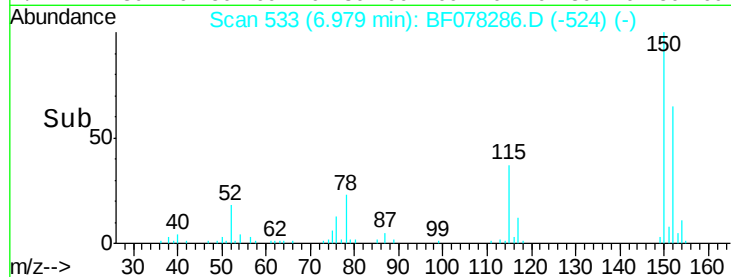
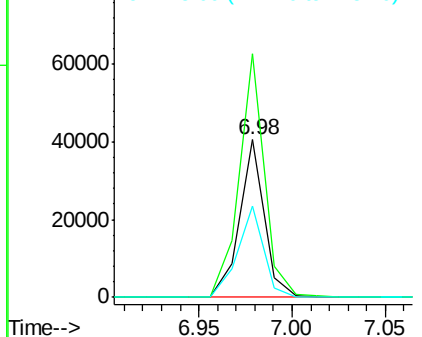
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.98 min Scan# 533  
 Delta R.T. 0.00 min  
 Lab File: BF078286.D  
 Acq: 7 Apr 2015 6:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2(1-3)

Tot Ion:152 Resp: 37533  
 Ion Ratio Lower Upper  
 152 100  
 150 154.8 125.9 188.9  
 115 58.1 52.7 79.1

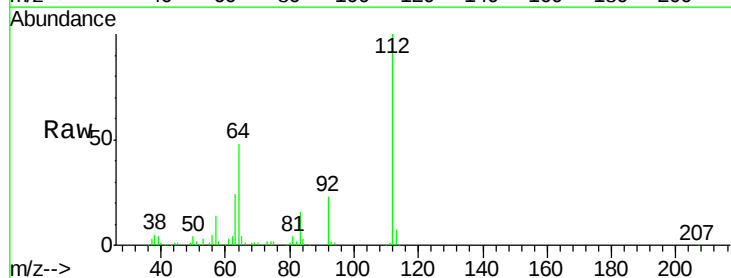


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

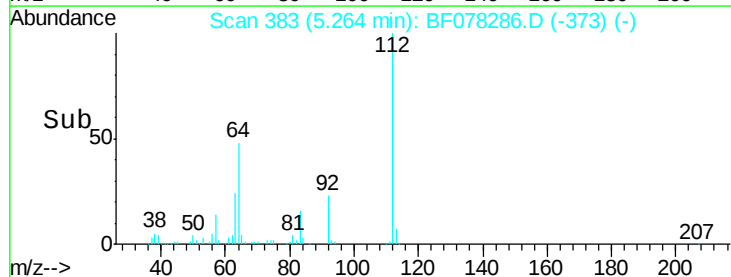
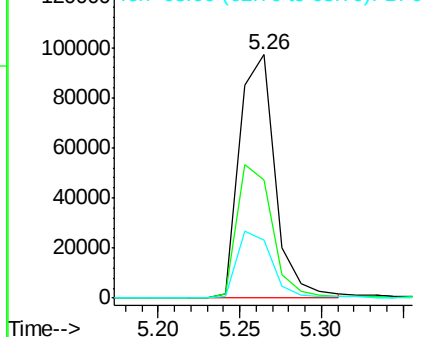


#5  
 2-Fluorophenol  
 Concen: 64.35 ng  
 RT: 5.26 min Scan# 383  
 Delta R.T. 0.01 min  
 Lab File: BF078286.D  
 Acq: 7 Apr 2015 6:33

Tgt Ion:112 Resp: 146477  
 Ion Ratio Lower Upper  
 112 100  
 64 48.4 39.9 59.9  
 63 23.7 20.2 30.4



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: 66.67 ng

RT: 6.58 min Scan# 498

Delta R.T. 0.00 min

Lab File: BF078286.D

Acq: 7 Apr 2015 6:33

Instrument :

BNA\_F

ClientSampleId :

SB-2(1-3)

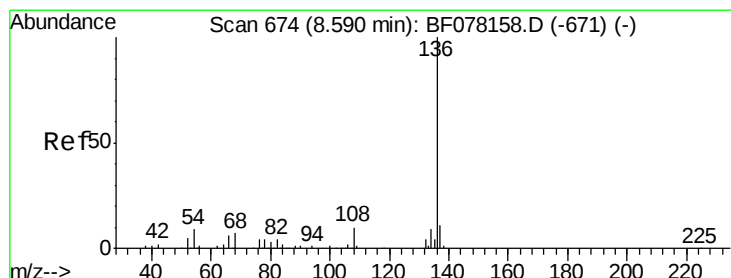
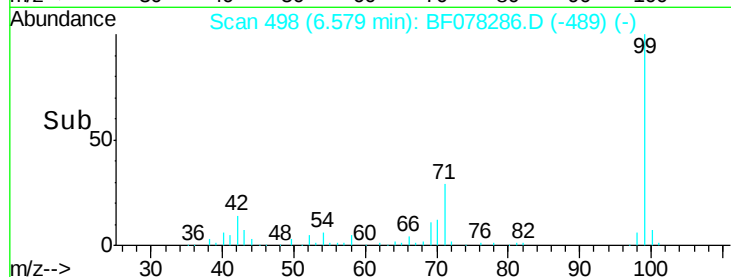
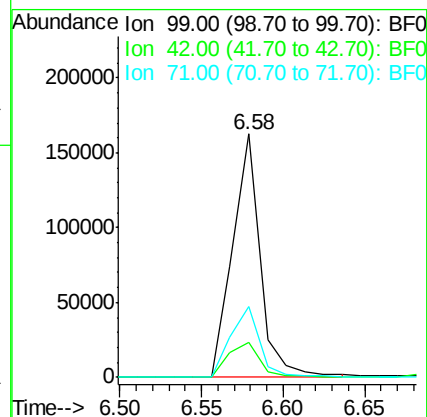
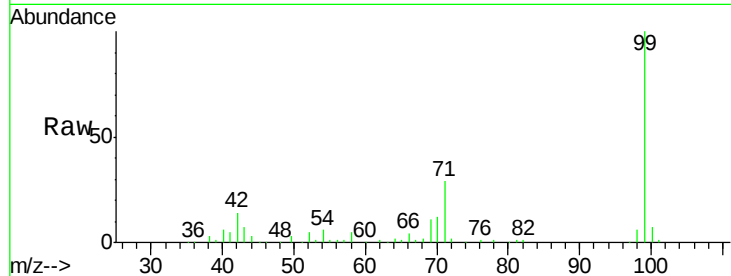
Tot Ion: 99 Resp: 190201

Ion Ratio Lower Upper

99 100

42 14.2 14.8 22.2#

71 29.1 26.6 39.8



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.56 min Scan# 671

Delta R.T. 0.00 min

Lab File: BF078286.D

Acq: 7 Apr 2015 6:33

Tgt Ion: 136 Resp: 155085

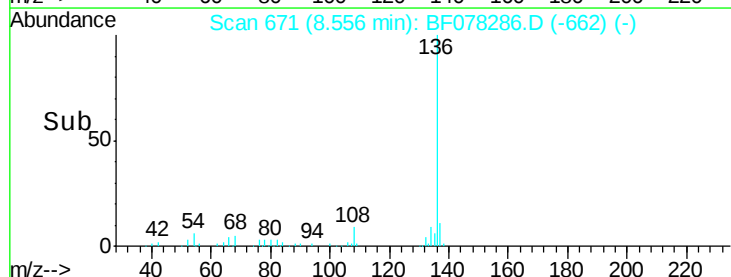
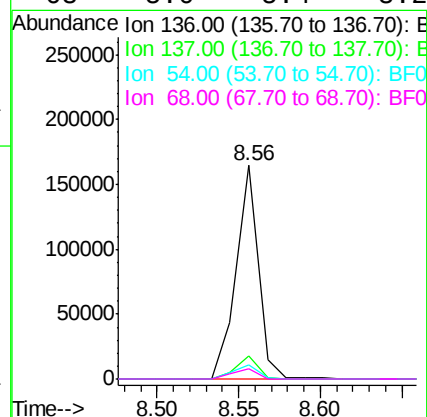
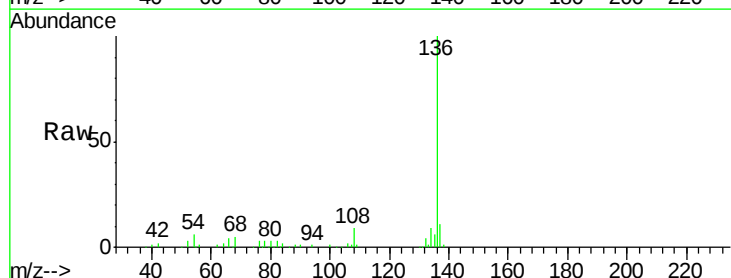
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.4

54 6.4 7.0 10.6#

68 5.0 5.4 8.2#

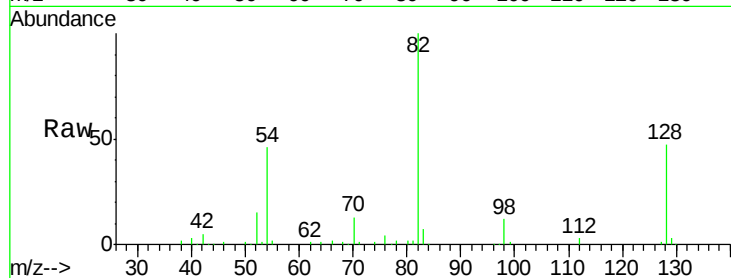




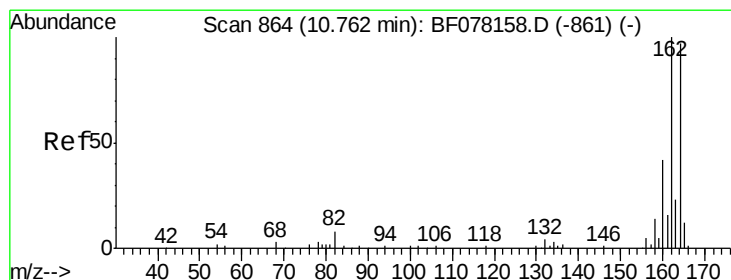
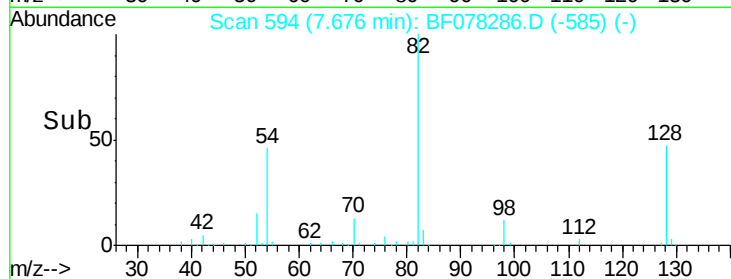
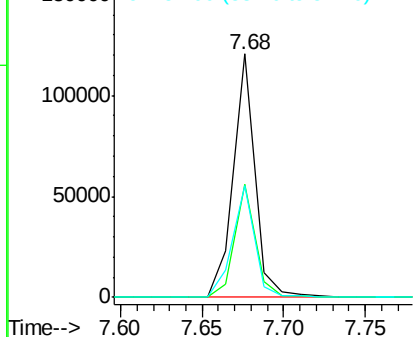
#23  
 Nitrobenzene-d5  
 Concen: 43.06 ng  
 RT: 7.68 min Scan# 594  
 Delta R.T. 0.00 min  
 Lab File: BF078286.D  
 Acq: 7 Apr 2015 6:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2(1-3)

Tot Ion: 82 Resp: 110186  
 Ion Ratio Lower Upper  
 82 100  
 128 46.7 31.8 47.8  
 54 45.9 41.5 62.3

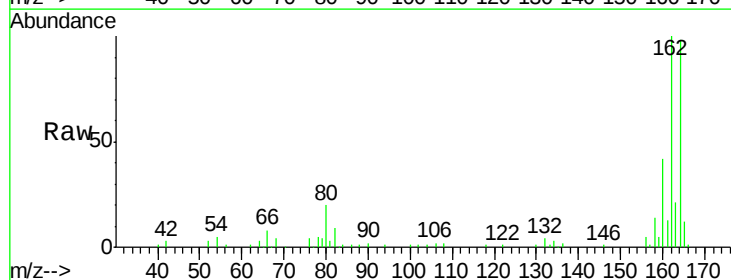


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

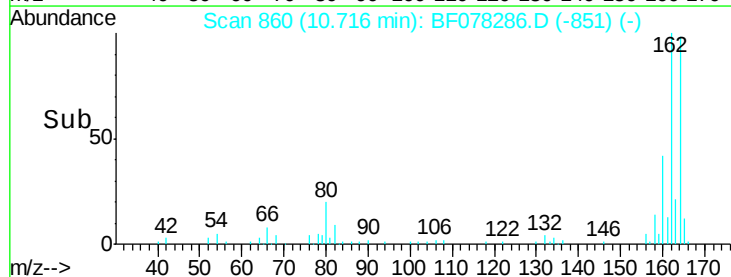
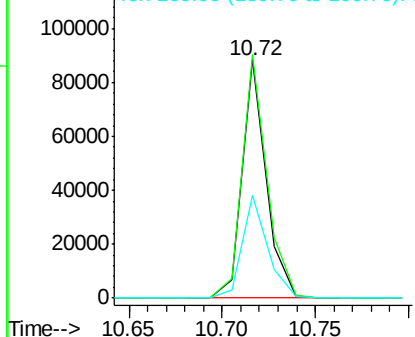


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.72 min Scan# 860  
 Delta R.T. 0.00 min  
 Lab File: BF078286.D  
 Acq: 7 Apr 2015 6:33

Tgt Ion:164 Resp: 78830  
 Ion Ratio Lower Upper  
 164 100  
 162 102.3 82.2 123.2  
 160 43.3 34.7 52.1



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

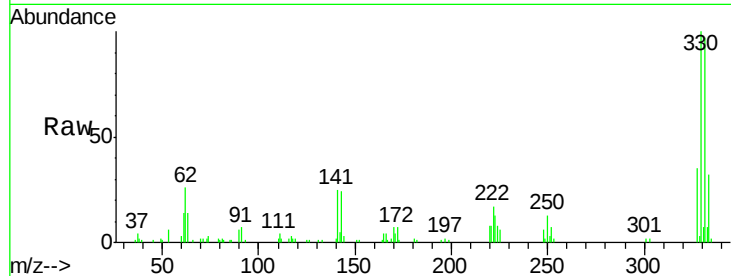




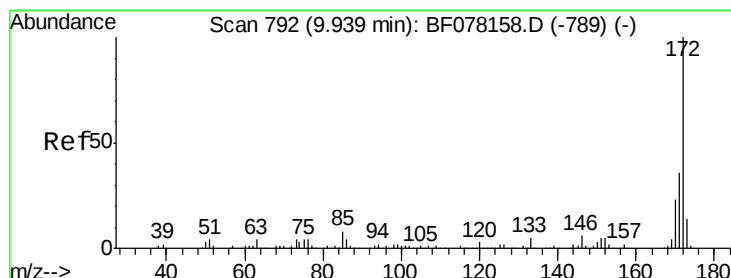
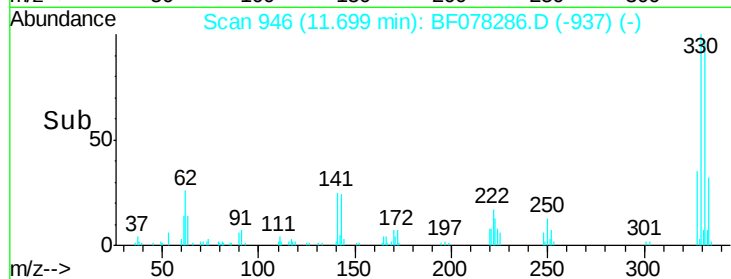
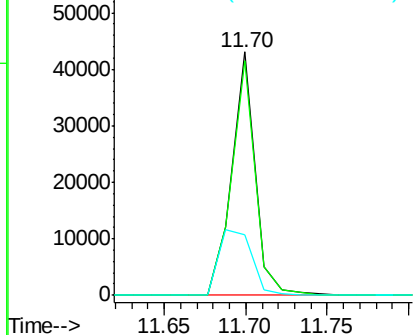
#41  
 2,4,6-Tribromophenol  
 Concen: 65.08 ng  
 RT: 11.70 min Scan# 946  
 Delta R.T. 0.00 min  
 Lab File: BF078286.D  
 Acq: 7 Apr 2015 6:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2(1-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 78.6  | 117.8 |
| 141     | 37.8  | 31.2  | 46.8  |

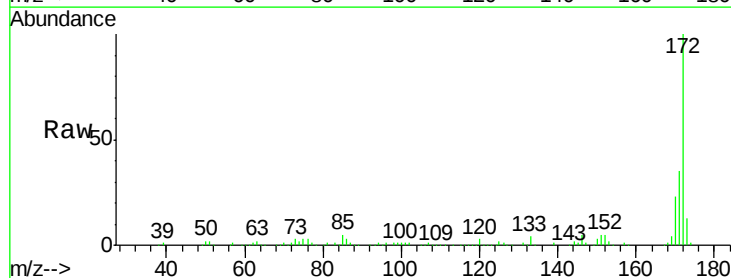


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

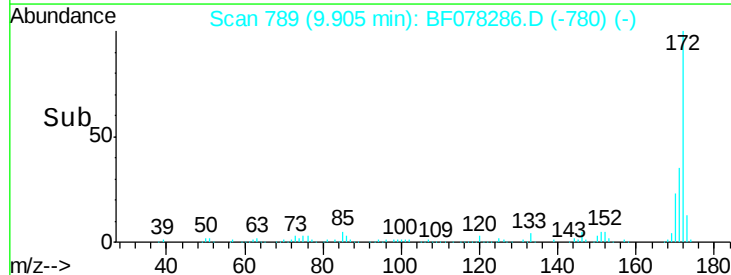
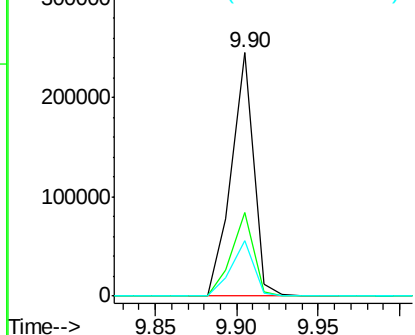


#44  
 2-Fluorobiphenyl  
 Concen: 42.32 ng  
 RT: 9.90 min Scan# 789  
 Delta R.T. 0.00 min  
 Lab File: BF078286.D  
 Acq: 7 Apr 2015 6:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.6  | 28.6  | 42.8  |
| 170     | 22.9  | 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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.55 min Scan# 1020

Delta R.T. 0.00 min

Lab File: BF078286.D

Acq: 7 Apr 2015 6:33

Instrument :

BNA\_F

ClientSampleId :

SB-2(1-3)

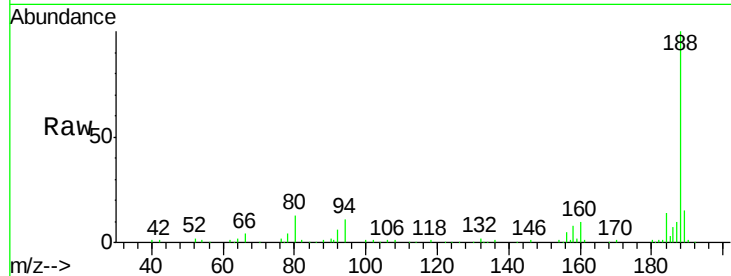
Tot Ion:188 Resp: 149726

Ion Ratio Lower Upper

188 100

94 11.5 9.0 13.4

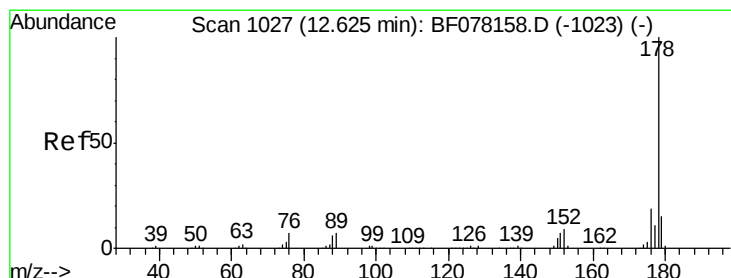
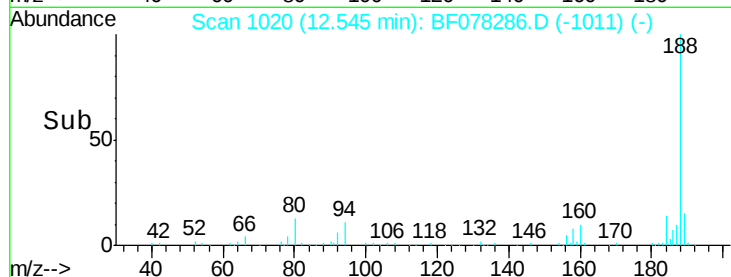
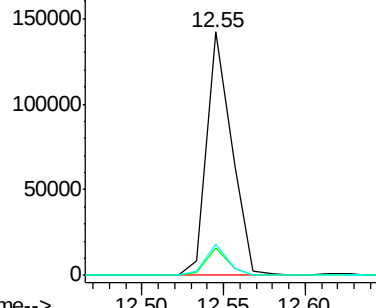
80 12.7 9.5 14.3



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: 3.57 ng

RT: 12.58 min Scan# 1023

Delta R.T. 0.00 min

Lab File: BF078286.D

Acq: 7 Apr 2015 6:33

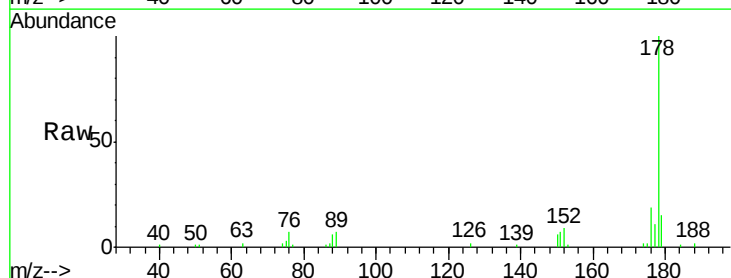
Tgt Ion:178 Resp: 30959

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.0

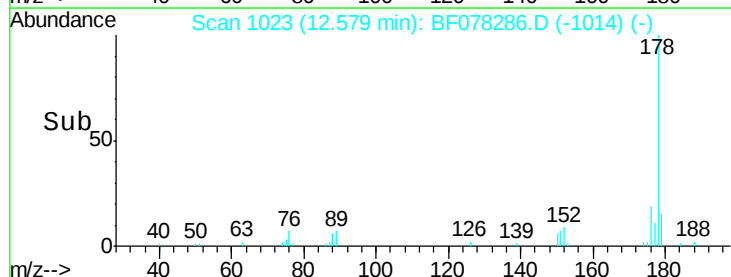
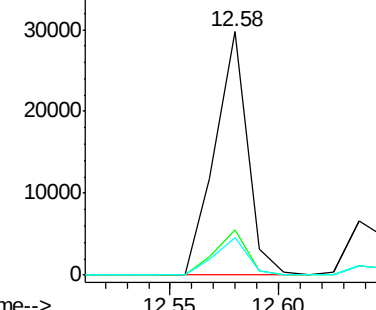
179 15.2 12.2 18.2

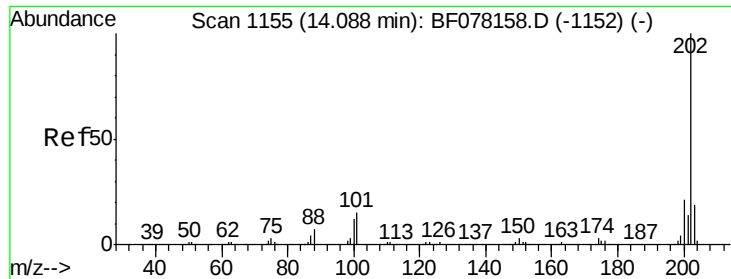


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

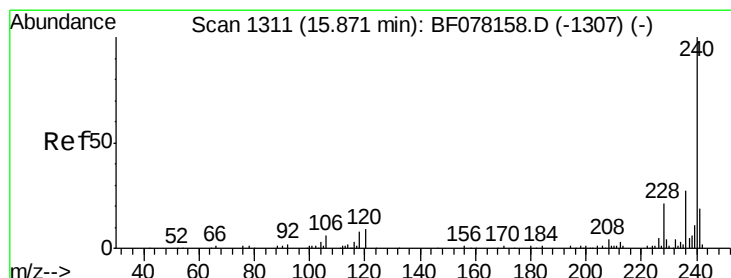
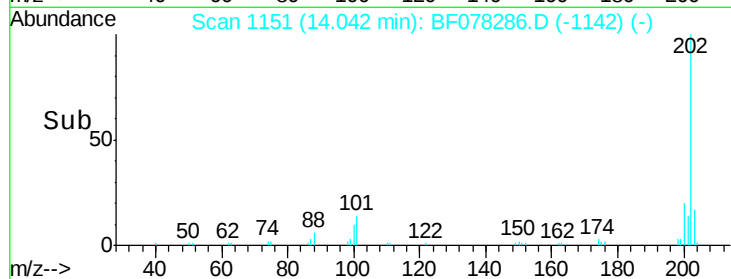
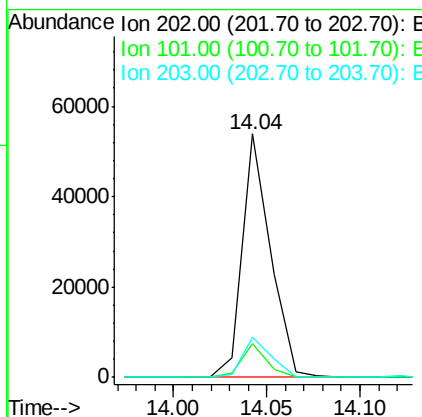
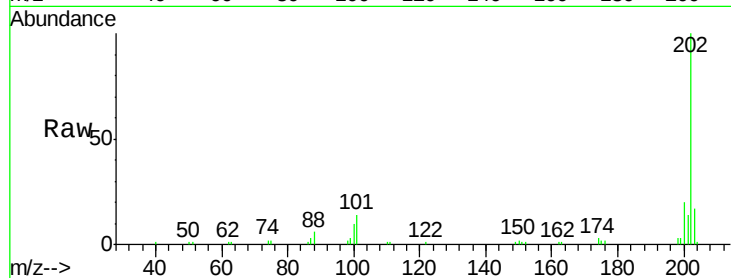




#74  
 Fluoranthene  
 Concen: 6.21 ng  
 RT: 14.04 min Scan# 1151  
 Delta R.T. 0.00 min  
 Lab File: BF078286.D  
 Acq: 7 Apr 2015 6:33

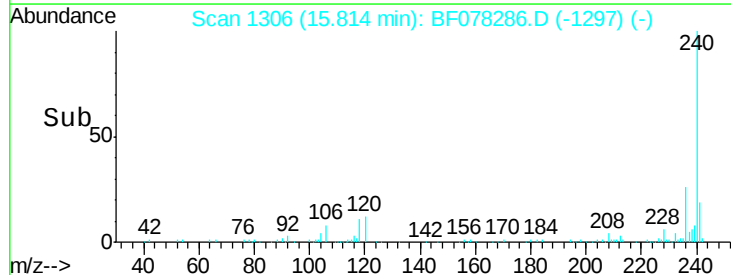
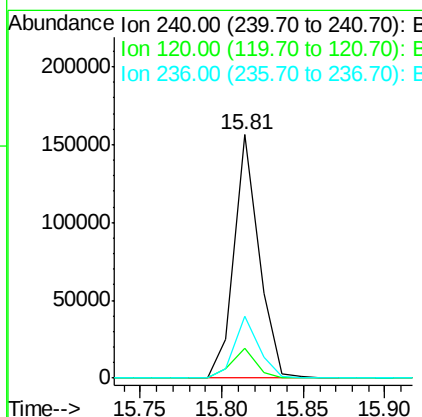
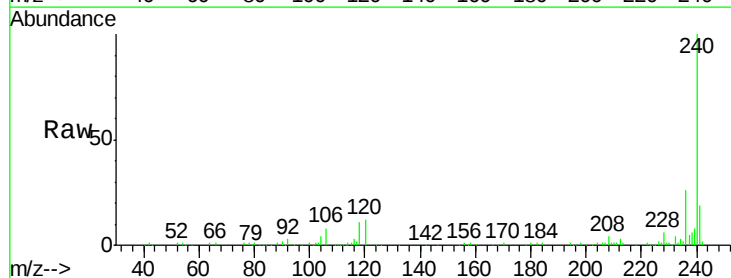
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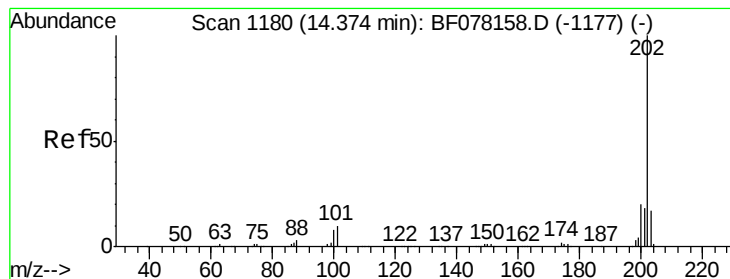
Tot Ion:202 Resp: 56726  
 Ion Ratio Lower Upper  
 202 100  
 101 13.7 0.0 35.2  
 203 16.6 0.0 38.5



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 15.81 min Scan# 1306  
 Delta R.T. 0.00 min  
 Lab File: BF078286.D  
 Acq: 7 Apr 2015 6:33

Tgt Ion:240 Resp: 165108  
 Ion Ratio Lower Upper  
 240 100  
 120 12.3 7.1 10.7#  
 236 25.6 21.4 32.2





#77

Pvrene

Concen: 5.15 ng

RT: 14.32 min Scan# 1175

Delta R.T. 0.00 min

Lab File: BF078286.D

Acq: 7 Apr 2015 6:33

Instrument :

BNA\_F

ClientSampleId :

SB-2(1-3)

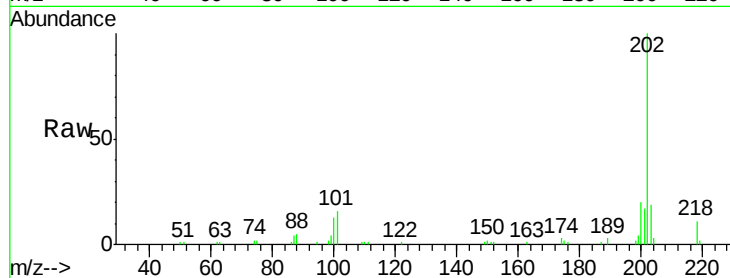
Tot Ion:202 Resp: 53385

Ion Ratio Lower Upper

202 100

200 20.4 16.3 24.5

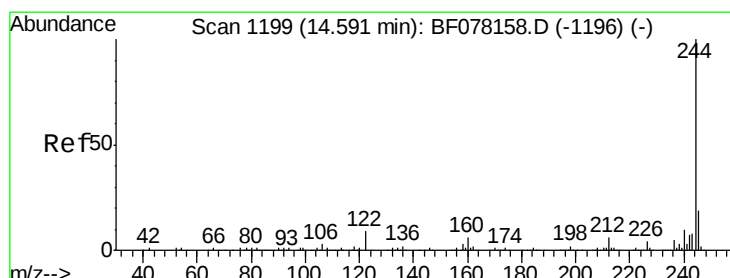
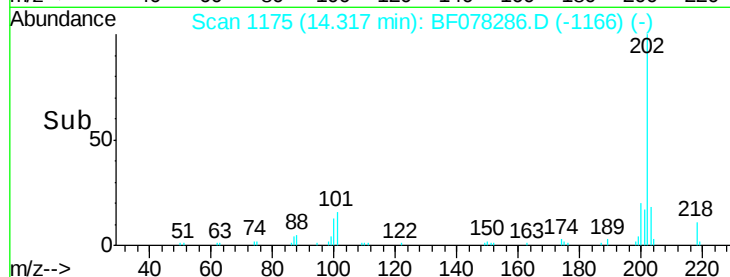
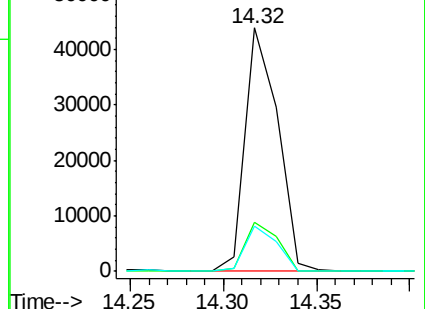
203 18.6 13.8 20.6



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: 37.21 ng

RT: 14.55 min Scan# 1195

Delta R.T. 0.00 min

Lab File: BF078286.D

Acq: 7 Apr 2015 6:33

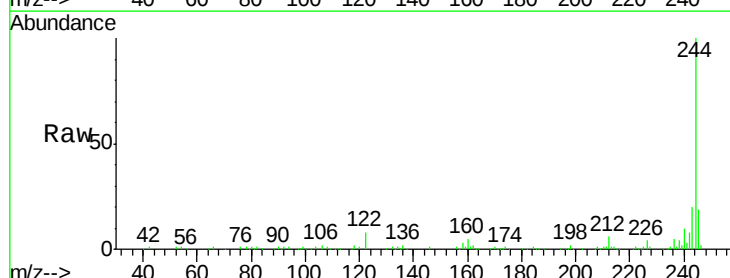
Tgt Ion:244 Resp: 271897

Ion Ratio Lower Upper

244 100

212 5.9 5.0 7.4

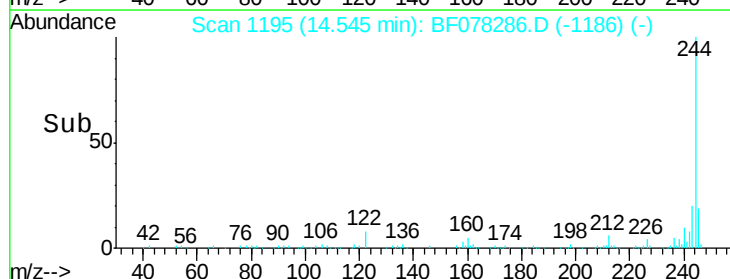
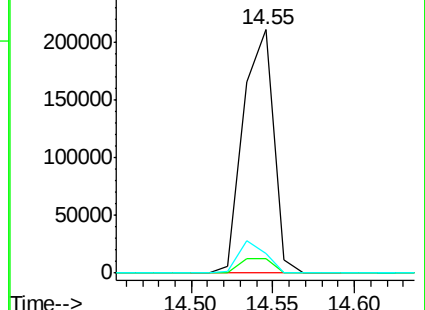
122 8.1 7.1 10.7

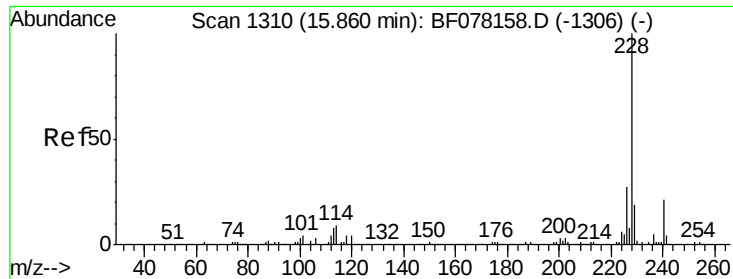


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.95 ng

RT: 15.80 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BF078286.D

Acq: 7 Apr 2015 6:33

Instrument :

BNA\_F

ClientSampleId :

SB-2(1-3)

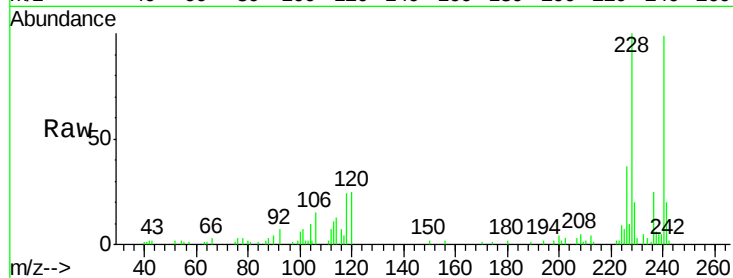
Tot Ion:228 Resp: 29010

Ion Ratio Lower Upper

228 100

226 37.3 21.3 31.9#

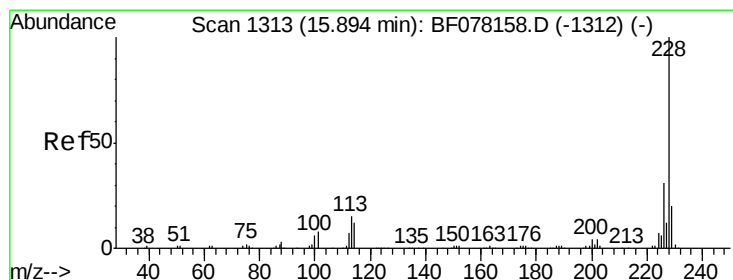
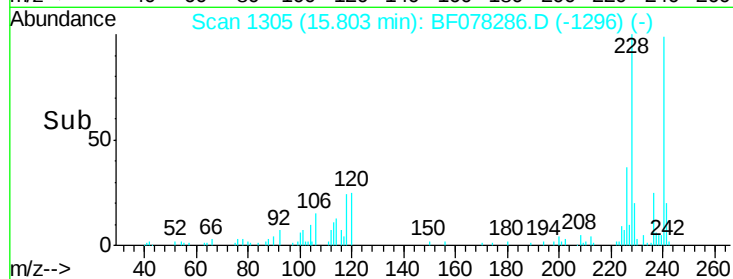
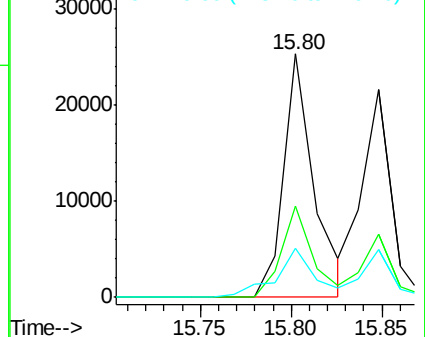
229 19.9 15.4 23.2



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: 2.59 ng

RT: 15.85 min Scan# 1309

Delta R.T. 0.00 min

Lab File: BF078286.D

Acq: 7 Apr 2015 6:33

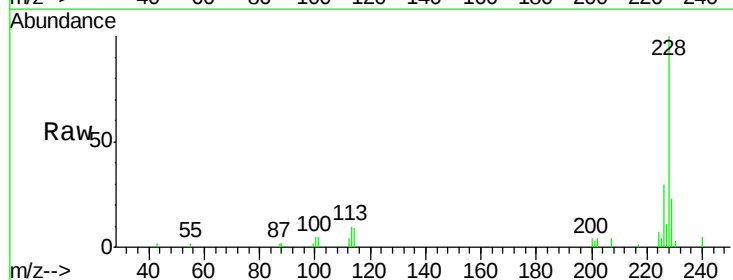
Tgt Ion:228 Resp: 23894

Ion Ratio Lower Upper

228 100

226 30.2 24.2 36.4

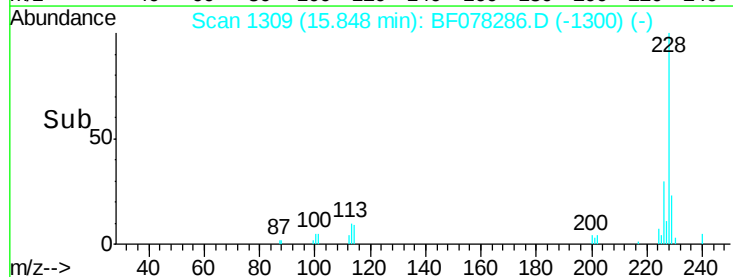
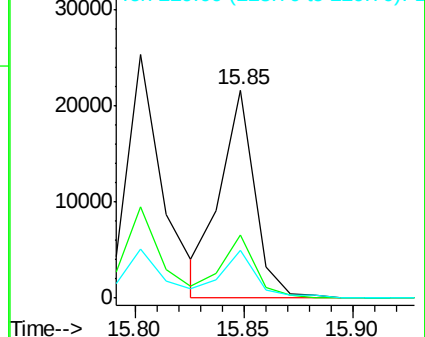
229 23.1 15.8 23.8

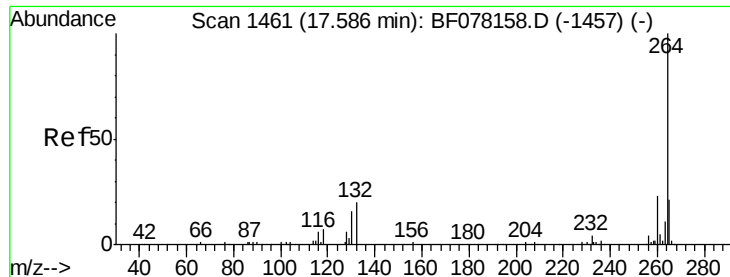


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

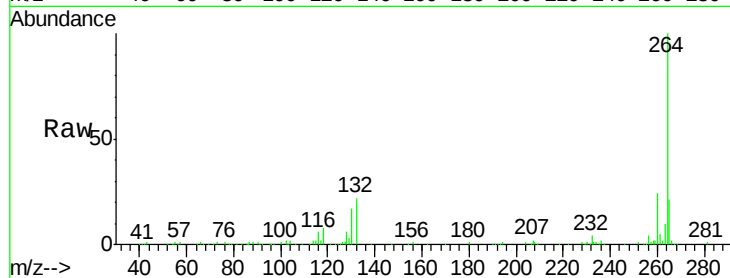




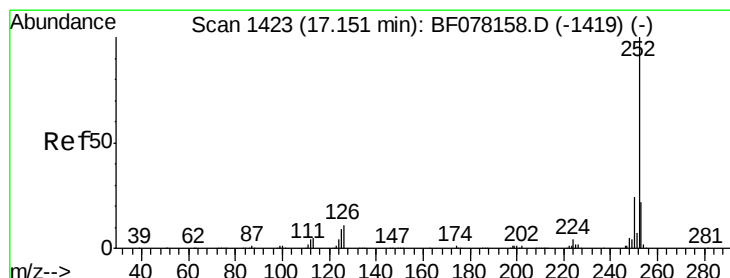
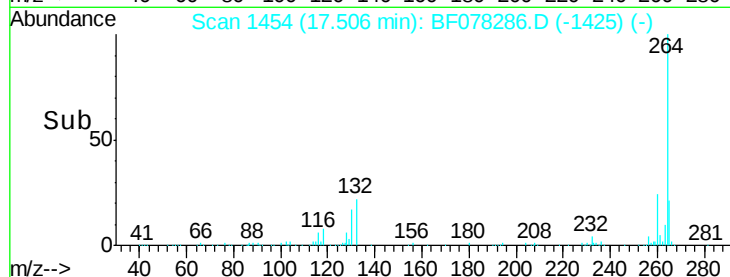
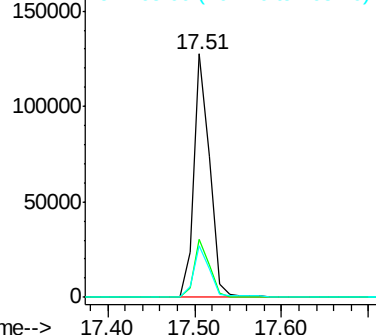
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 17.51 min Scan# 1454  
Delta R.T. 0.03 min  
Lab File: BF078286.D  
Acq: 7 Apr 2015 6:33

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2(1-3)

Tot Ion:264 Resp: 163623  
Ion Ratio Lower Upper  
264 100  
260 23.6 18.6 27.8  
265 21.4 17.0 25.6

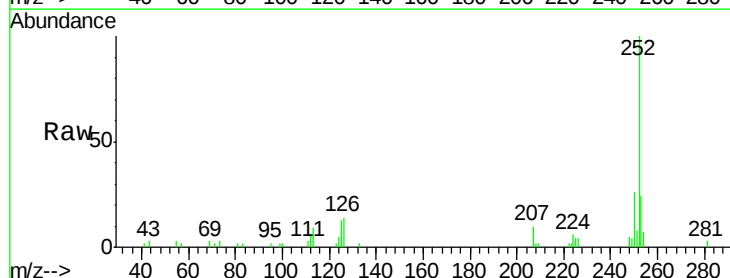


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

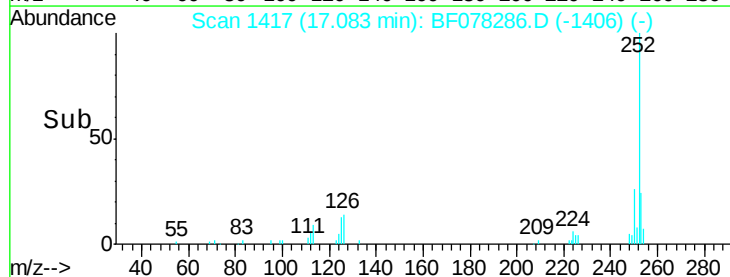
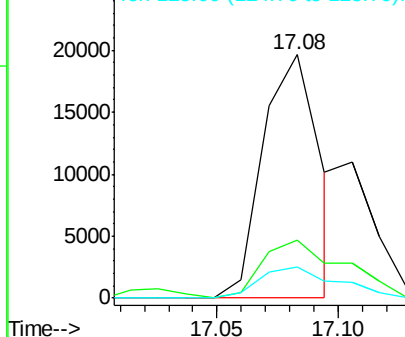


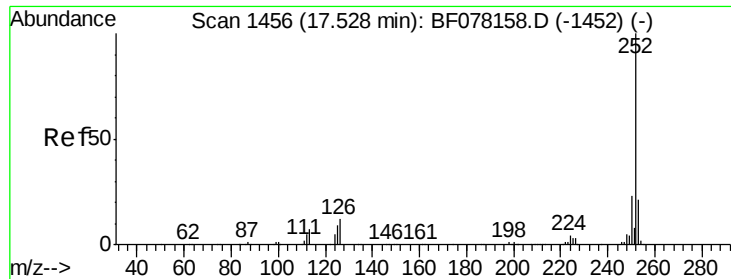
#87  
Benzo(b)fluoranthene  
Concen: 3.18 ng m  
RT: 17.08 min Scan# 1417  
Delta R.T. 0.02 min  
Lab File: BF078286.D  
Acq: 7 Apr 2015 6:33

Tgt Ion:252 Resp: 32170  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.2 25.8  
125 12.6 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





#89

Benzo(a)pyrene

Concen: 2.47 ng

RT: 17.45 min Scan# 1449

Delta R.T. 0.03 min

Lab File: BF078286.D

Acq: 7 Apr 2015 6:33

Instrument :

BNA\_F

ClientSampleId :

SB-2(1-3)

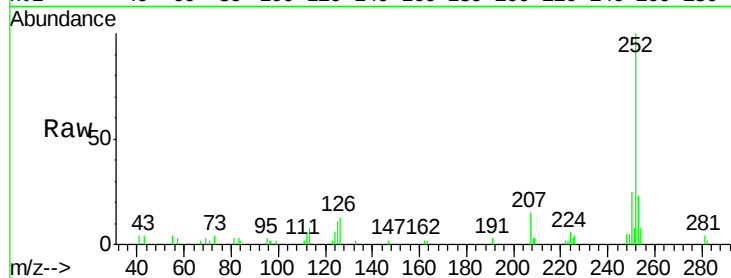
Tot Ion:252 Resp: 21804

Ion Ratio Lower Upper

252 100

253 23.4 16.8 25.2

125 10.6 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

