

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032415\  
 Data File : BF077945.D  
 Acq On : 25 Mar 2015 9:19  
 Operator : TP/IZ  
 Sample : G1615-01 5X  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-15-1

Quant Time: Mar 25 11:23:39 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF031115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 25 11:05:58 2015  
 Response via : Initial Calibration

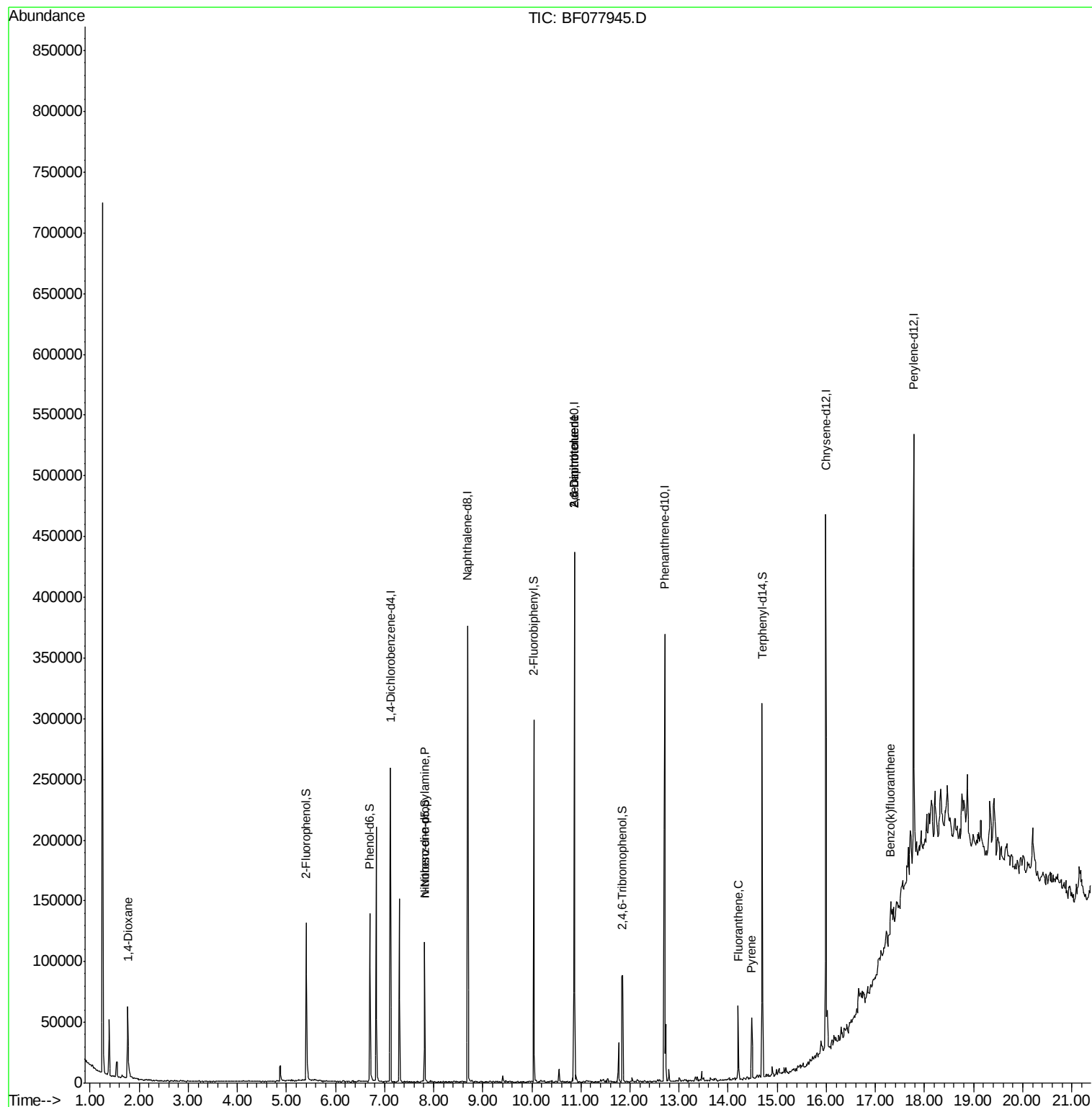
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.12  | 152  | 42328    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.69  | 136  | 173200   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.87 | 164  | 89899    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 12.71 | 188  | 171221   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12               | 15.99 | 240  | 189520   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 17.78 | 264  | 178835   | 20.00 | ng    | 0.03     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.40  | 112  | 52570    | 21.68 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.69  | 99   | 70593    | 23.56 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.81  | 82   | 39082    | 14.79 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 11.85 | 330  | 16252    | 18.89 | ng    | 0.01     |
| 44) 2-Fluorobiphenyl           | 10.04 | 172  | 96164    | 15.72 | ng    | 0.00     |
| 78) Terphenyl-d14              | 14.69 | 244  | 106538   | 13.73 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 2) 1,4-Dioxane                 | 1.77  | 88   | 2499     | 2.27  | ng    | # 100    |
| 19) n-Nitroso-di-n-propylamine | 7.81  | 70   | 5290     | 2.55  | ng    | # 77     |
| 50) 2,6-Dinitrotoluene         | 10.87 | 165  | 11209    | 8.11  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 10.87 | 165  | 11205    | 6.22  | ng    | # 11     |
| 74) Fluoranthene               | 14.20 | 202  | 26203    | 2.42  | ng    | # 96     |
| 77) Pyrene                     | 14.48 | 202  | 24242    | 2.03  | ng    | # 93     |
| 88) Benzo(k)fluoranthene       | 17.31 | 252  | 22217    | 2.44  | ng    | # 85     |

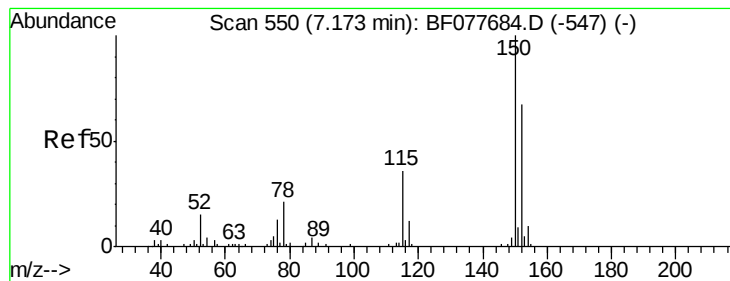
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.12 min Scan# 545

Delta R.T. 0.00 min

Lab File: BF077945.D

Acq: 25 Mar 2015 9:19

Instrument :

BNA\_F

ClientSampleId :

SB-15-1

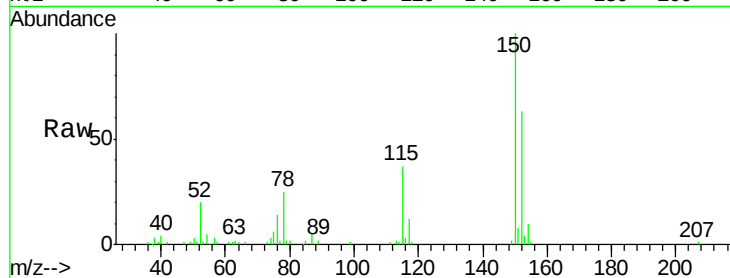
Tgt Ion:152 Resp: 42328

Ion Ratio Lower Upper

152 100

150 159.0 119.5 179.3

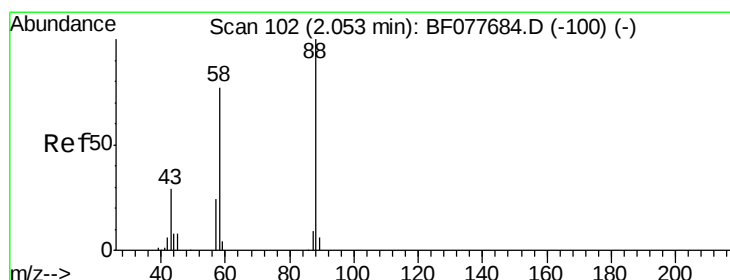
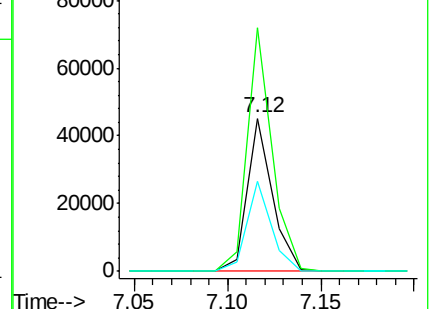
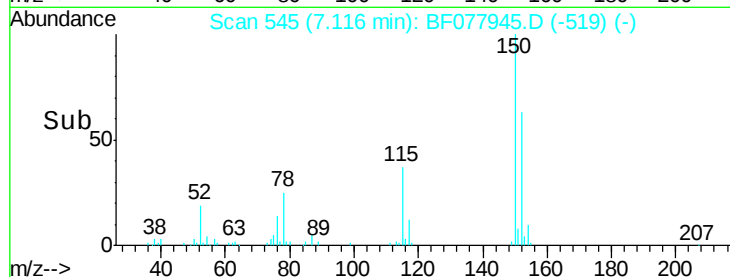
115 58.9 43.0 64.4



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: 2.27 ng

RT: 1.77 min Scan# 77

Delta R.T. -0.22 min

Lab File: BF077945.D

Acq: 25 Mar 2015 9:19

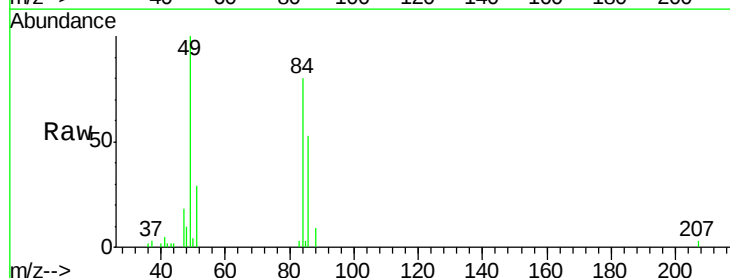
Tgt Ion: 88 Resp: 2499

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

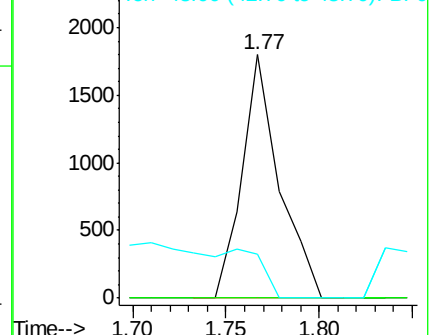
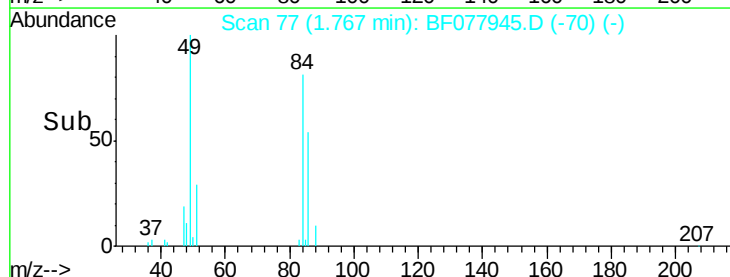
43 0.0 0.0 0.0

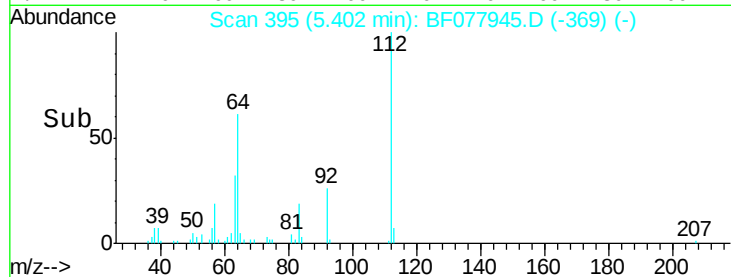
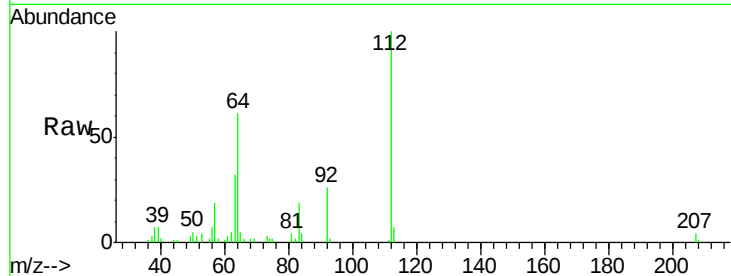
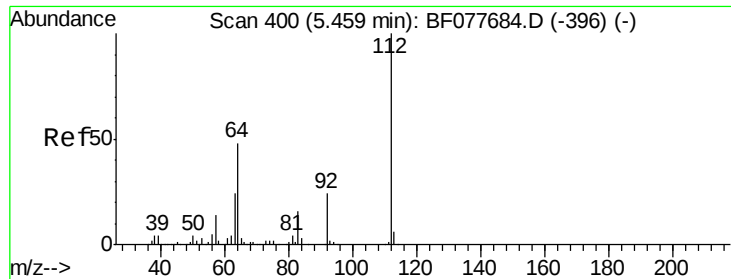


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0

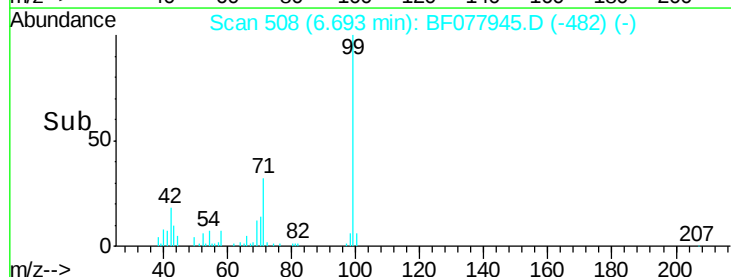
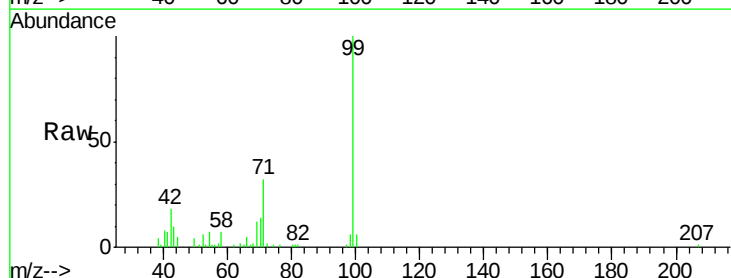
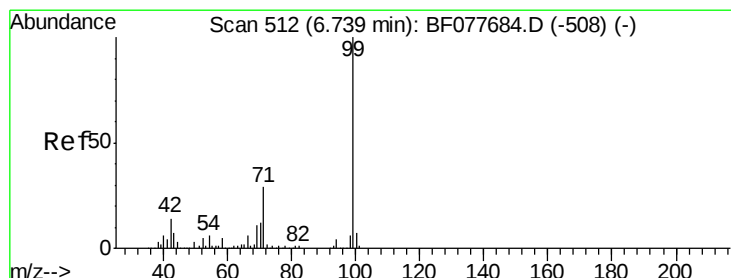
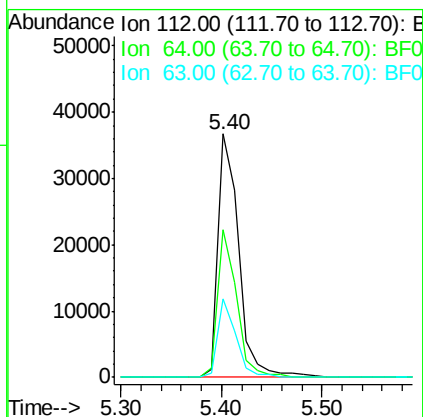




#5  
2-Fluorophenol  
Concen: 21.68 ng  
RT: 5.40 min Scan# 395  
Delta R.T. 0.00 min  
Lab File: BF077945.D  
Acq: 25 Mar 2015 9:19

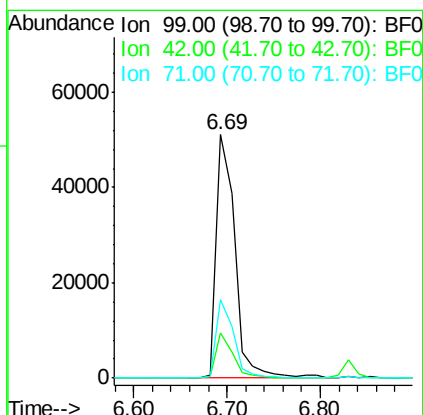
Instrument :  
BNA\_F  
ClientSampleId :  
SB-15-1

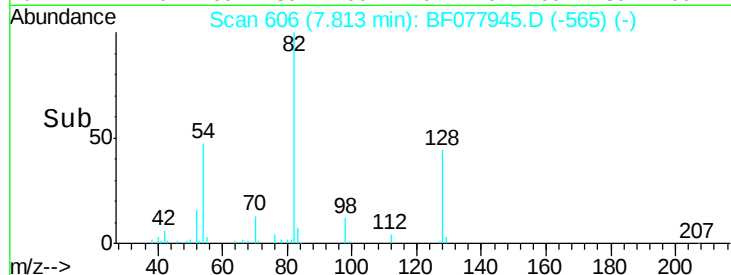
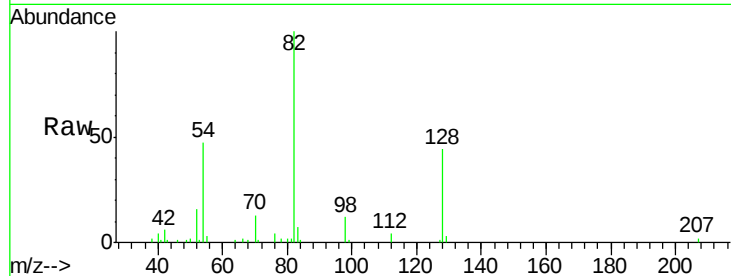
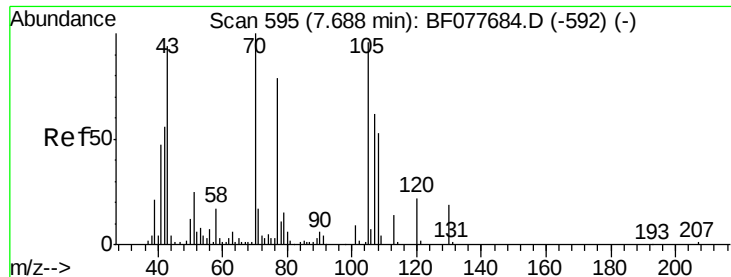
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.8  | 38.6  | 57.8# |
| 63      | 32.2  | 19.3  | 28.9# |



#7  
Phenol-d6  
Concen: 23.56 ng  
RT: 6.69 min Scan# 508  
Delta R.T. 0.00 min  
Lab File: BF077945.D  
Acq: 25 Mar 2015 9:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 18.4  | 11.0  | 16.4# |
| 71      | 32.1  | 23.4  | 35.2  |

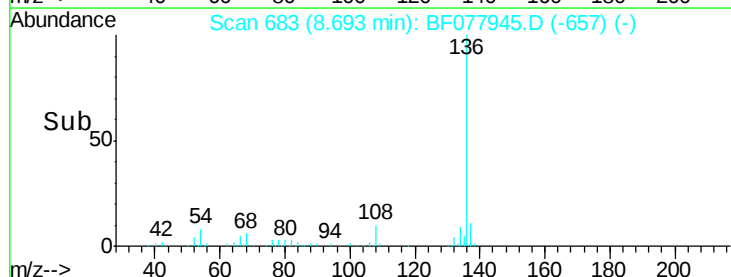
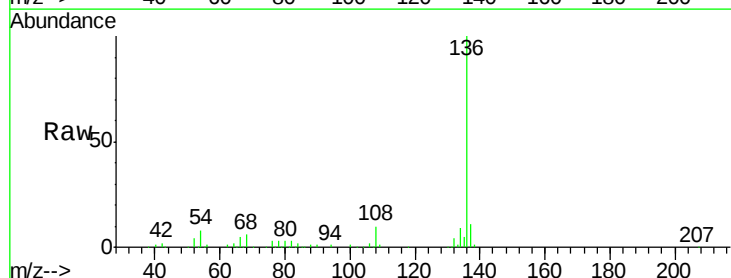
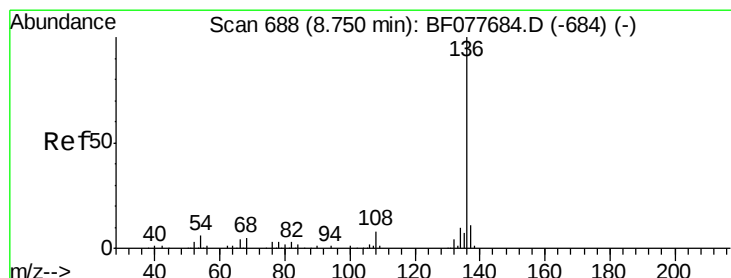
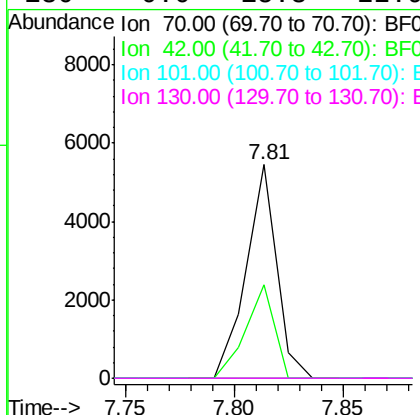




#19  
n-Nitroso-di-n-propylamine  
Concen: 2.55 ng  
RT: 7.81 min Scan# 606  
Delta R.T. 0.17 min  
Lab File: BF077945.D  
Acq: 25 Mar 2015 9:19

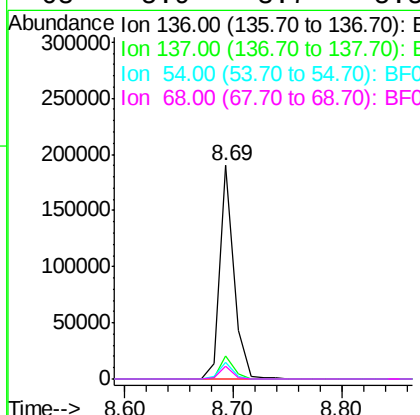
Instrument :  
BNA\_F  
ClientSampleId :  
SB-15-1

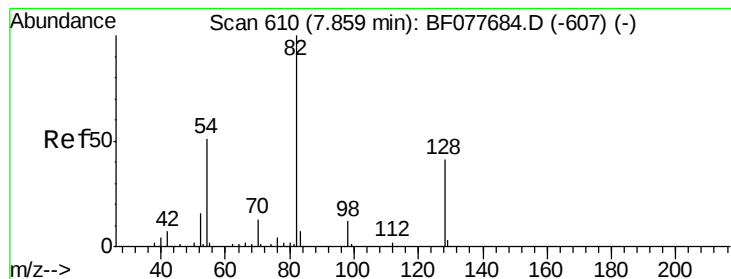
Tgt Ion: 70 Resp: 5290  
Ion Ratio Lower Upper  
70 100  
42 43.6 44.5 66.7#  
101 0.0 7.4 11.2#  
130 0.0 15.3 22.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.69 min Scan# 683  
Delta R.T. 0.00 min  
Lab File: BF077945.D  
Acq: 25 Mar 2015 9:19

Tgt Ion: 136 Resp: 173200  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.7 13.1  
54 7.8 4.6 6.8#  
68 5.9 3.7 5.5#





#23

Nitrobenzene-d5

Concen: 14.79 ng

RT: 7.81 min Scan# 606

Delta R.T. 0.00 min

Lab File: BF077945.D

Acq: 25 Mar 2015 9:19

Instrument :

BNA\_F

ClientSampleId :

SB-15-1

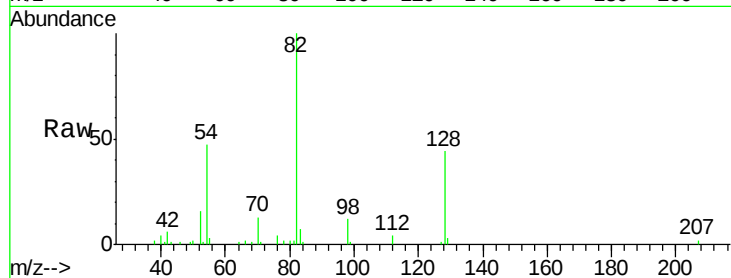
Tgt Ion: 82 Resp: 39082

Ion Ratio Lower Upper

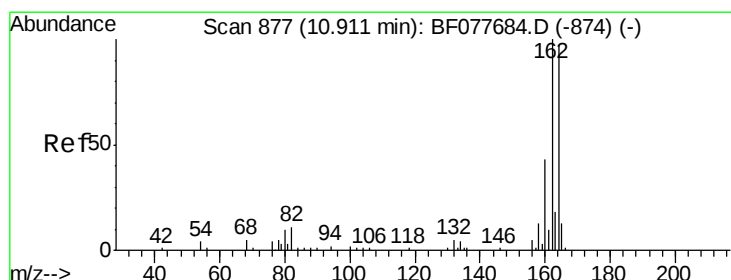
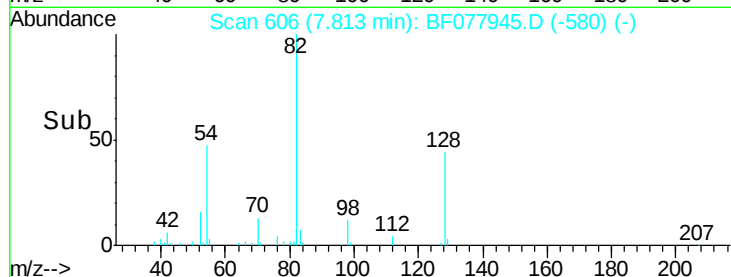
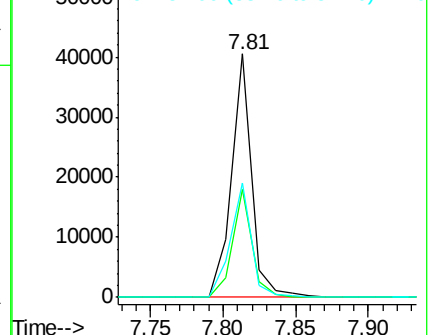
82 100

128 44.4 32.8 49.2

54 46.8 40.6 60.8



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: 10.87 min Scan# 873

Delta R.T. 0.00 min

Lab File: BF077945.D

Acq: 25 Mar 2015 9:19

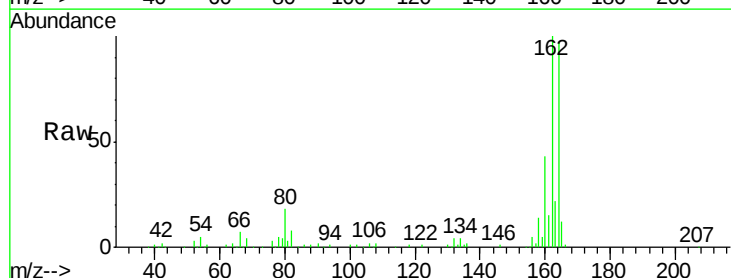
Tgt Ion: 164 Resp: 89899

Ion Ratio Lower Upper

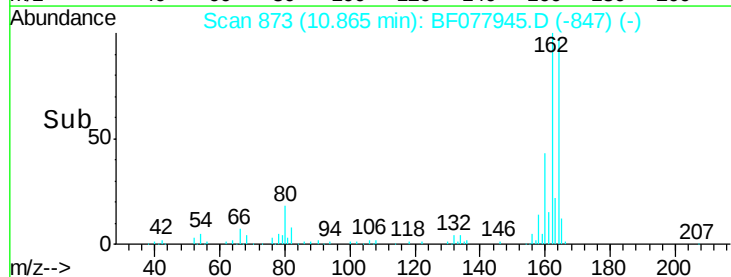
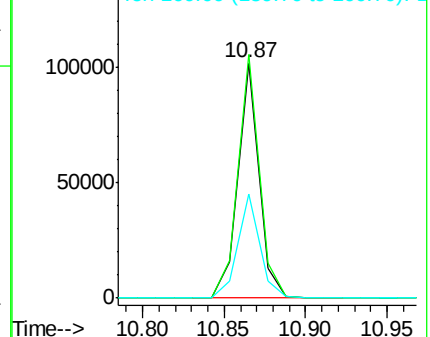
164 100

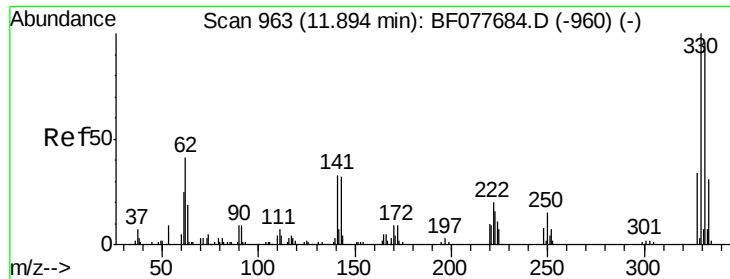
162 103.6 82.4 123.6

160 44.4 35.8 53.6



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

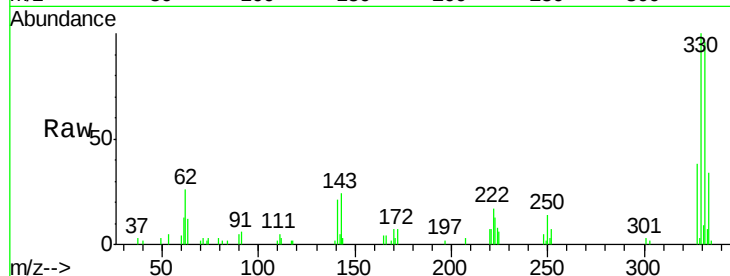




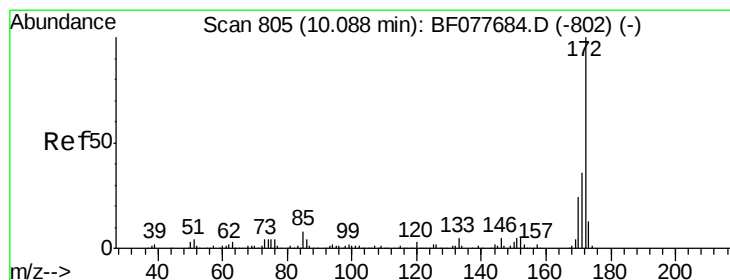
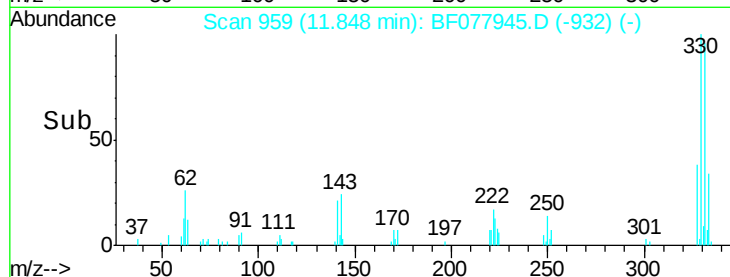
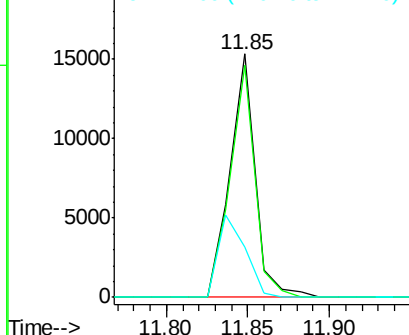
#41  
 2,4,6-Tribromophenol  
 Concen: 18.89 ng  
 RT: 11.85 min Scan# 959  
 Delta R.T. 0.01 min  
 Lab File: BF077945.D  
 Acq: 25 Mar 2015 9:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-15-1

Tgt Ion:330 Resp: 16252  
 Ion Ratio Lower Upper  
 330 100  
 332 93.7 0.0 0.0#  
 141 36.7 0.0 0.0#

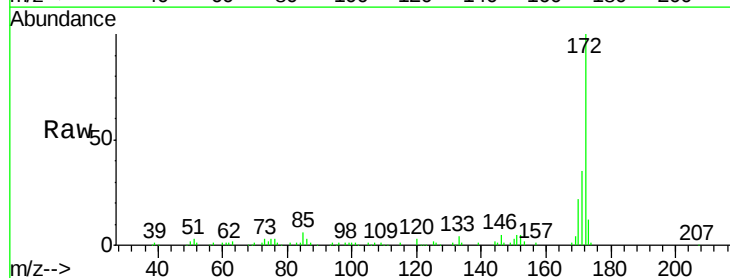


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

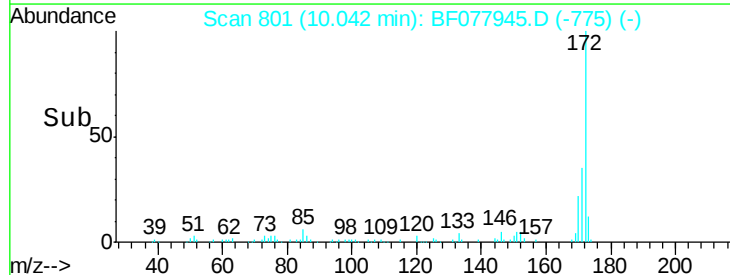
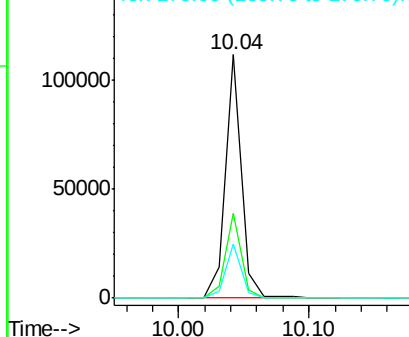


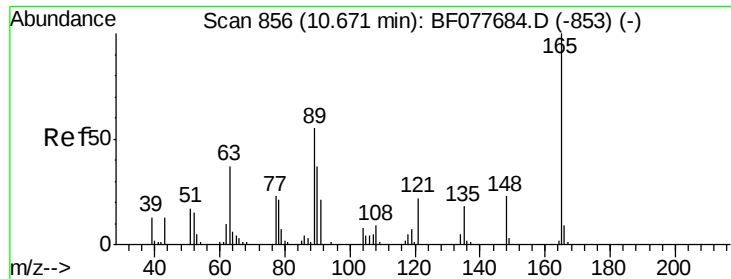
#44  
 2-Fluorobiphenyl  
 Concen: 15.72 ng  
 RT: 10.04 min Scan# 801  
 Delta R.T. 0.00 min  
 Lab File: BF077945.D  
 Acq: 25 Mar 2015 9:19

Tgt Ion:172 Resp: 96164  
 Ion Ratio Lower Upper  
 172 100  
 171 34.9 28.5 42.7  
 170 22.0 18.8 28.2



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

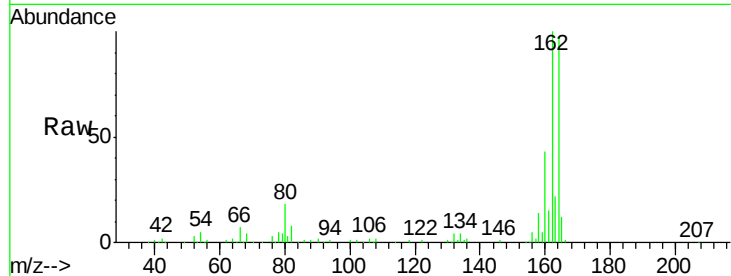




#50  
2,6-Dinitrotoluene  
Concen: 8.11 ng  
RT: 10.87 min Scan# 873  
Delta R.T. 0.24 min  
Lab File: BF077945.D  
Acq: 25 Mar 2015 9:19

Instrument :  
BNA\_F  
ClientSampleId :  
SB-15-1

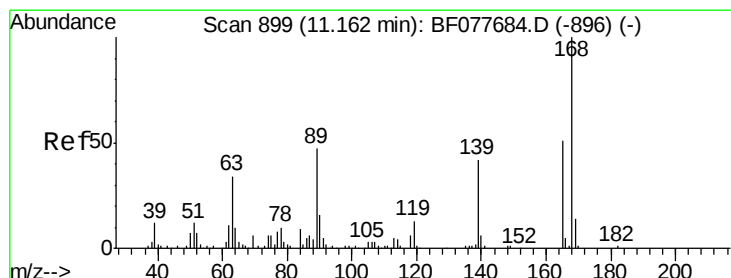
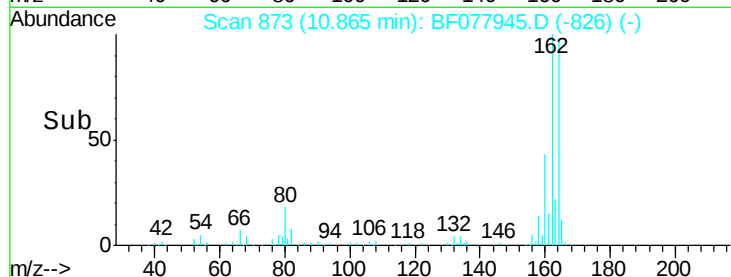
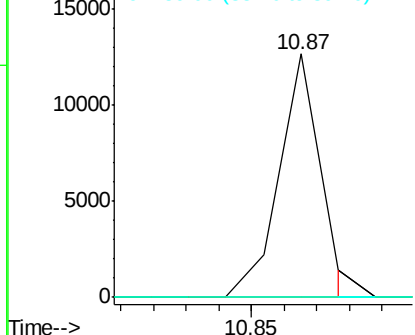
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.1  | 66.1# |
| 89      | 0.0   | 44.3  | 66.5# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
2,4-Dinitrotoluene  
Concen: 6.22 ng  
RT: 10.87 min Scan# 873  
Delta R.T. -0.25 min  
Lab File: BF077945.D  
Acq: 25 Mar 2015 9:19

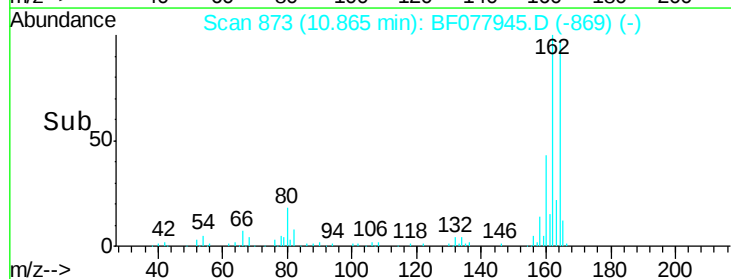
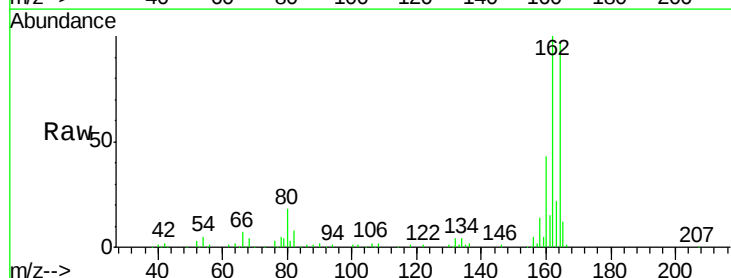
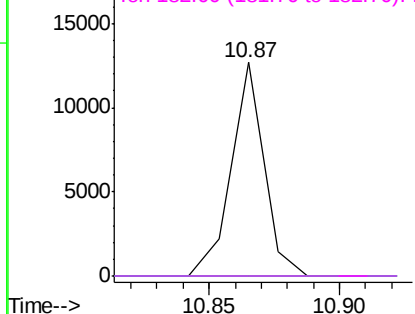
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 52.4  | 78.6#  |
| 89      | 0.0   | 72.4  | 108.6# |
| 182     | 0.0   | 2.0   | 3.0#   |

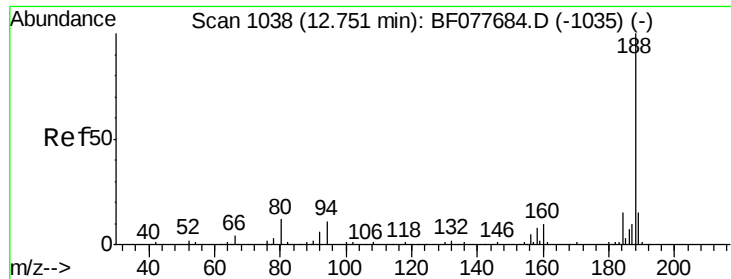
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

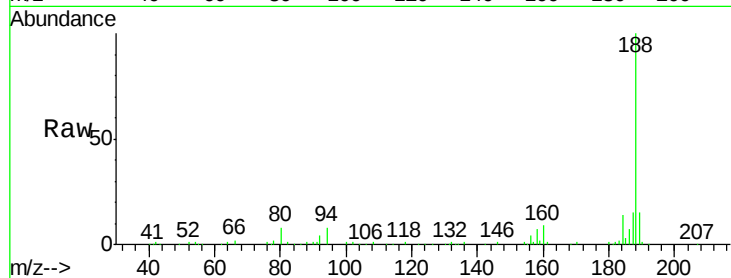




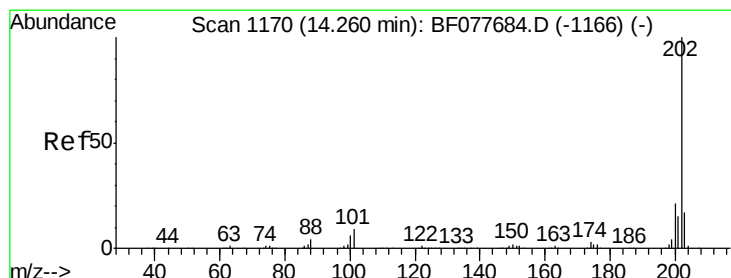
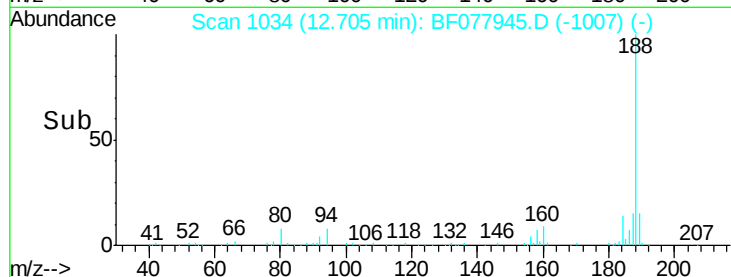
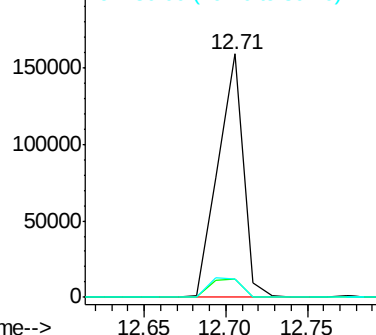
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.71 min Scan# 1034  
Delta R.T. 0.01 min  
Lab File: BF077945.D  
Acq: 25 Mar 2015 9:19

Instrument :  
BNA\_F  
ClientSampleId :  
SB-15-1

Tgt Ion:188 Resp: 171221  
Ion Ratio Lower Upper  
188 100  
94 7.6 8.7 13.1#  
80 7.6 9.3 13.9#

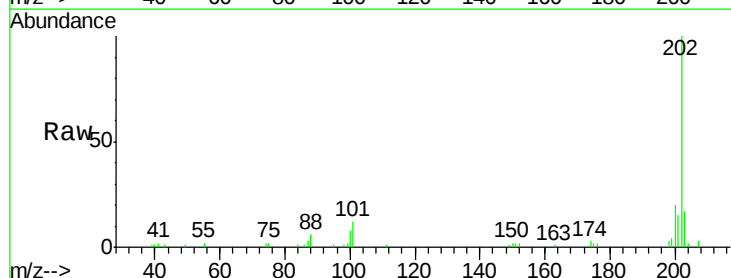


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

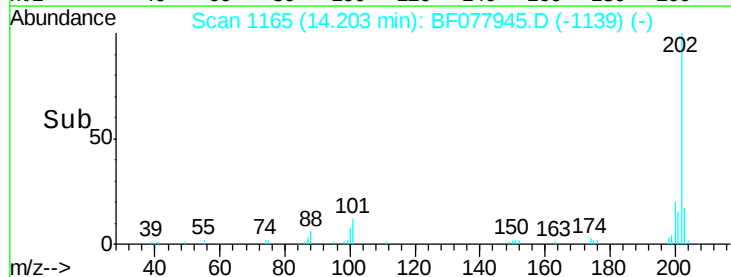
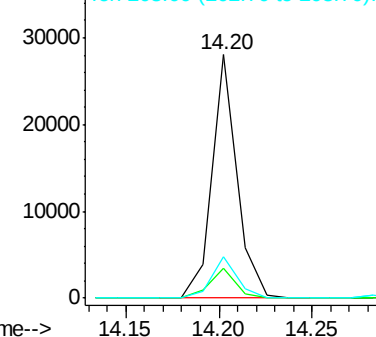


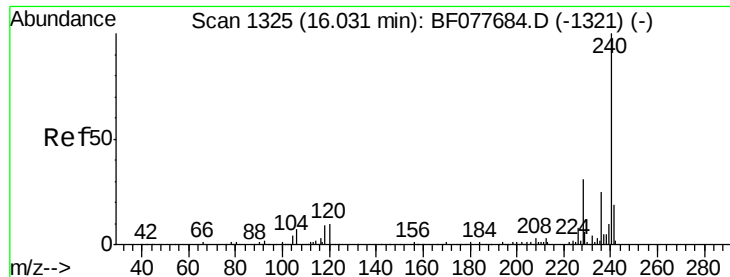
#74  
Fluoranthene  
Concen: 2.42 ng  
RT: 14.20 min Scan# 1165  
Delta R.T. 0.00 min  
Lab File: BF077945.D  
Acq: 25 Mar 2015 9:19

Tgt Ion:202 Resp: 26203  
Ion Ratio Lower Upper  
202 100  
101 12.2 0.0 28.7  
203 17.0 0.0 37.2



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: 15.99 min Scan# 1321

Delta R.T. 0.00 min

Lab File: BF077945.D

Acq: 25 Mar 2015 9:19

Instrument :

BNA\_F

ClientSampleId :

SB-15-1

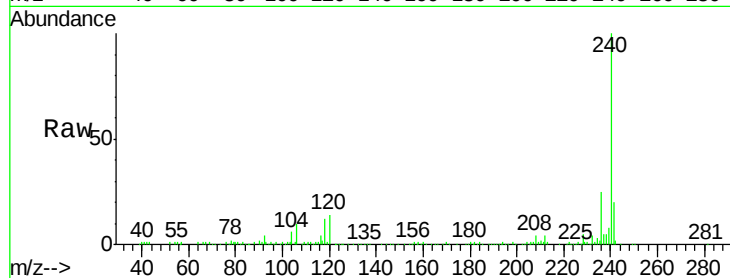
Tgt Ion:240 Resp: 189520

Ion Ratio Lower Upper

240 100

120 13.6 8.2 12.2#

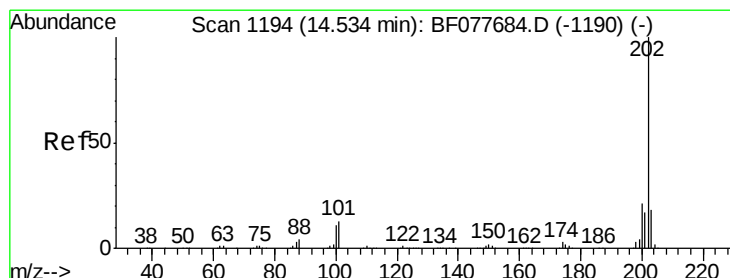
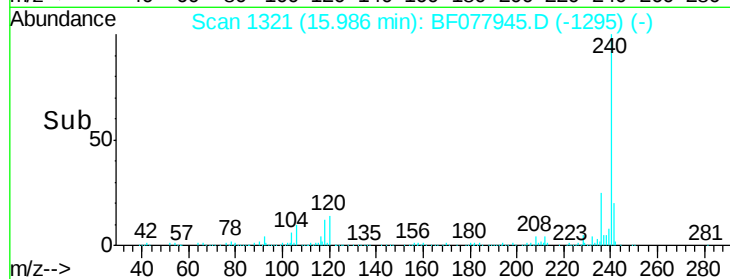
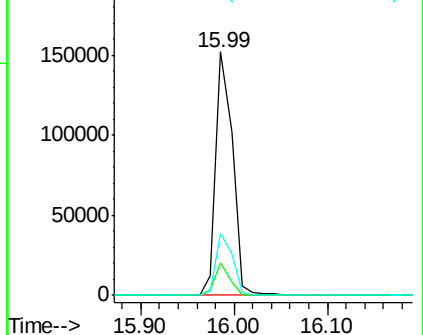
236 25.3 20.0 30.0



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: 2.03 ng

RT: 14.48 min Scan# 1189

Delta R.T. 0.00 min

Lab File: BF077945.D

Acq: 25 Mar 2015 9:19

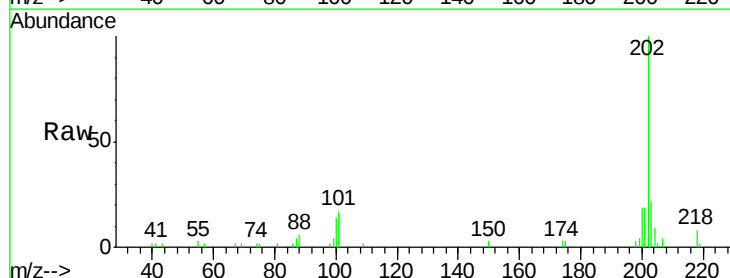
Tgt Ion:202 Resp: 24242

Ion Ratio Lower Upper

202 100

200 19.3 16.9 25.3

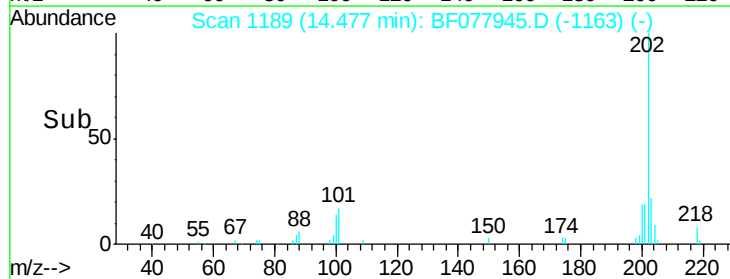
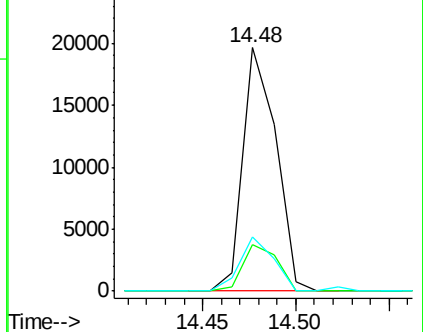
203 22.4 14.1 21.1#

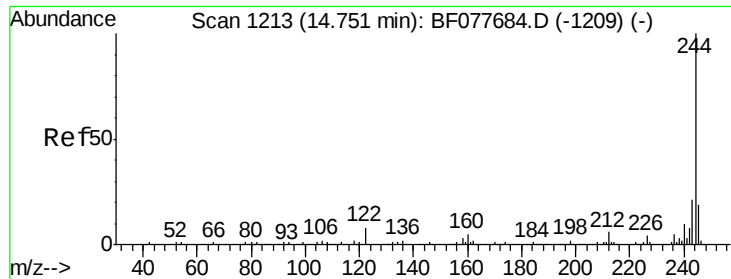


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

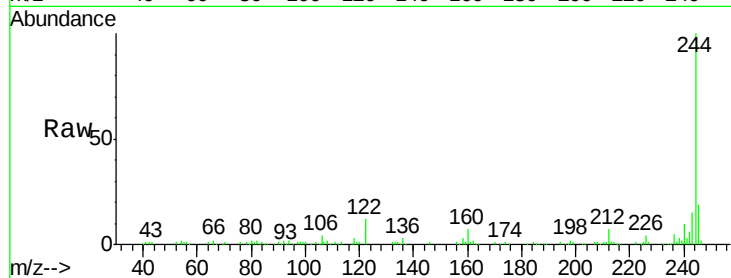




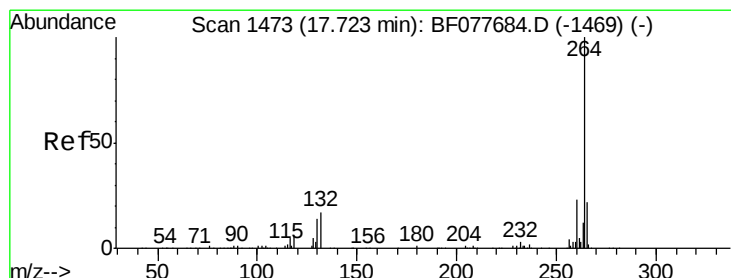
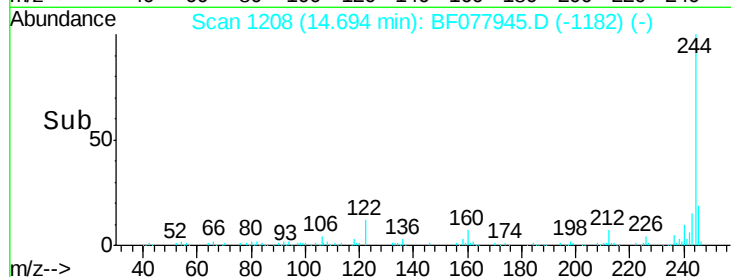
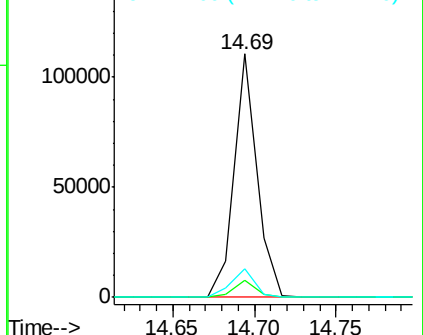
#78  
 Terphenyl-d14  
 Concen: 13.73 ng  
 RT: 14.69 min Scan# 1208  
 Delta R.T. 0.00 min  
 Lab File: BF077945.D  
 Acq: 25 Mar 2015 9:19

Instrument :  
 BNA\_F  
 ClientSampleID :  
 SB-15-1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 4.9   | 7.3   |
| 122     | 11.9  | 6.2   | 9.4   |

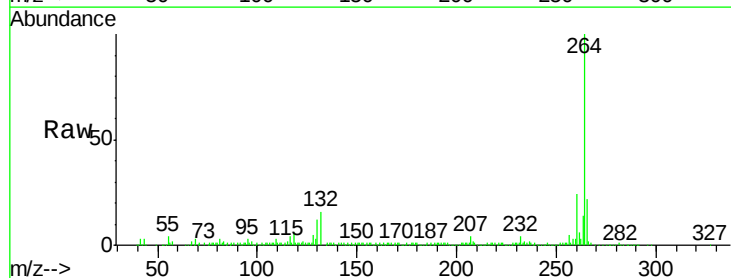


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

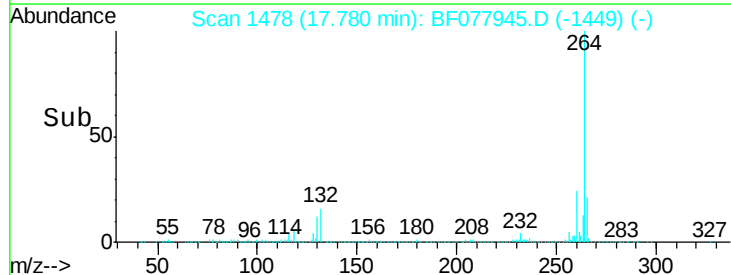
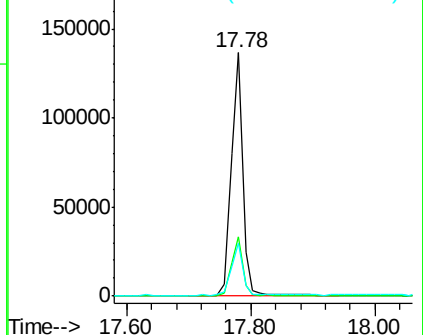


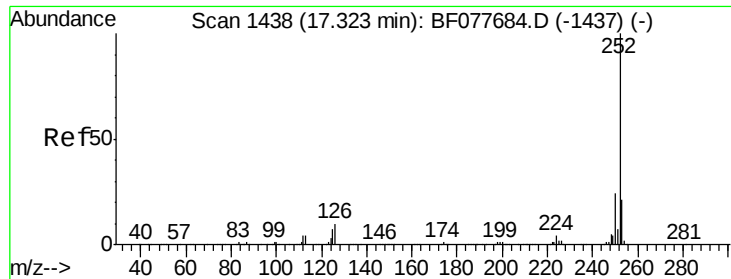
#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 17.78 min Scan# 1478  
 Delta R.T. 0.03 min  
 Lab File: BF077945.D  
 Acq: 25 Mar 2015 9:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 18.6  | 27.8  |
| 265     | 21.6  | 17.3  | 25.9  |



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





#88

Benzo(k)fluoranthene

Concen: 2.44 ng

RT: 17.31 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BF077945.D

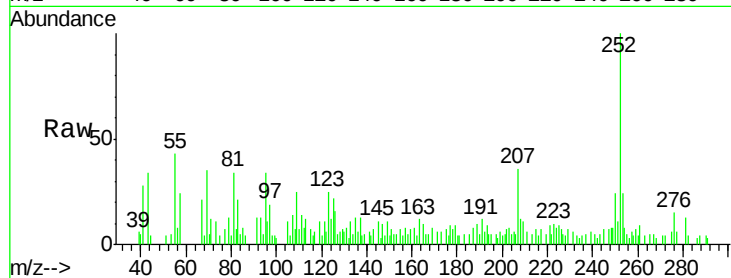
Acq: 25 Mar 2015 9:19

Instrument :

BNA\_F

ClientSampleId :

SB-15-1



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 22217 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 17.2  | 25.8  |
| 125       | 22.4  | 8.1   | 12.1# |

