

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120916\  
 Data File : BF091541.D  
 Acq On : 9 Dec 2016 21:43  
 Operator : UM/SJ  
 Sample : H5884-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EFF-WW

Quant Time: Dec 09 22:55:40 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 09 19:00:21 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.82  | 152  | 257297   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.10  | 136  | 770911   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.85  | 164  | 421266   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.34 | 188  | 603458   | 20.00  | ng    | 0.01     |
| 75) Chrysene-d12            | 13.97 | 240  | 507472   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12            | 15.38 | 264  | 540486   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.41  | 112  | 549297   | 35.97  | ng    | 0.00     |
| 7) Phenol-d6                | 6.46  | 99   | 432312   | 22.71  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.38  | 82   | 1455977  | 105.41 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.65 | 330  | 235999   | 67.45  | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 9.17  | 172  | 1366906  | 56.07  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.93 | 244  | 1008167  | 45.08  | ng    | 0.01     |

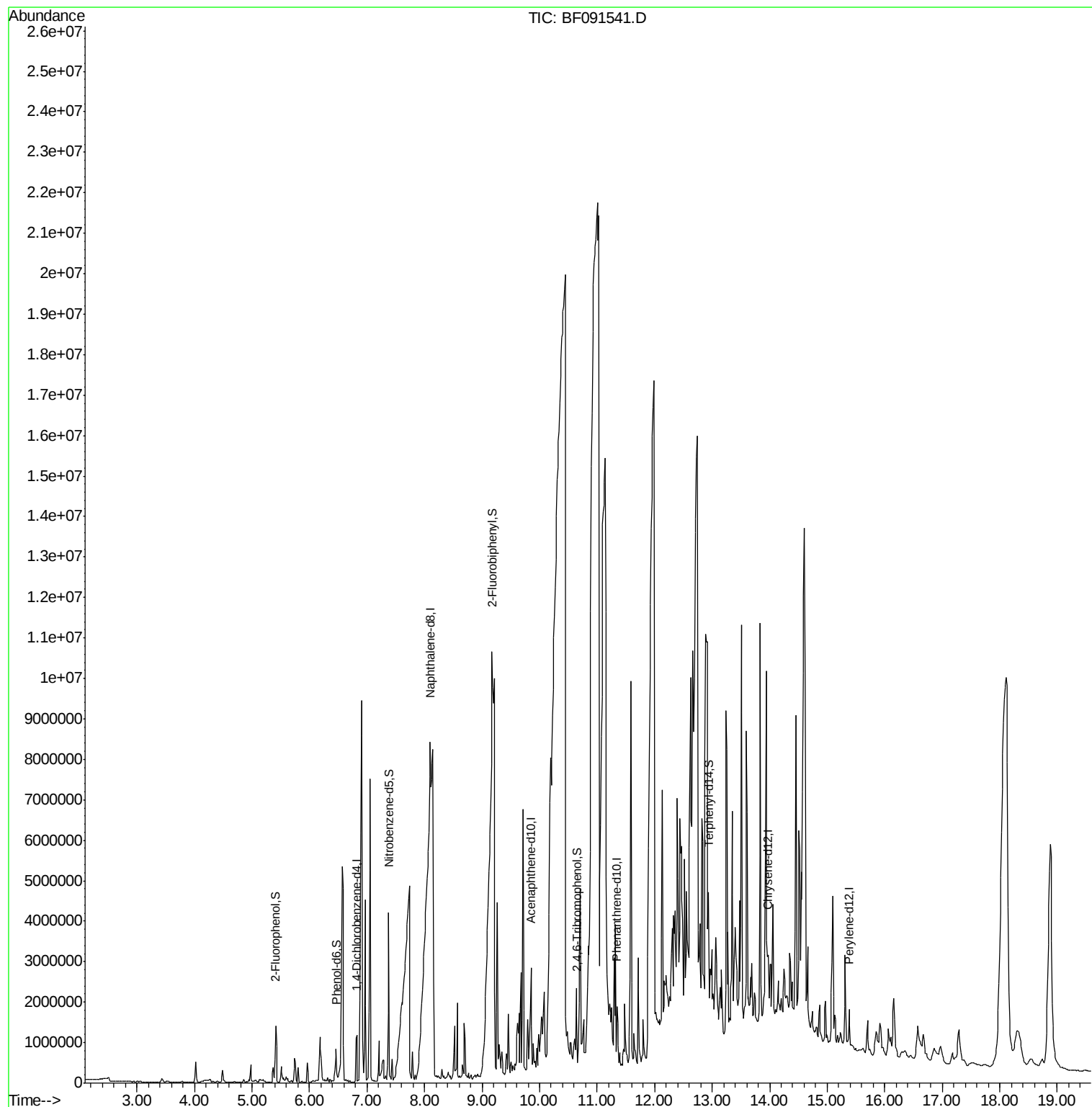
Target Compounds Qvalue

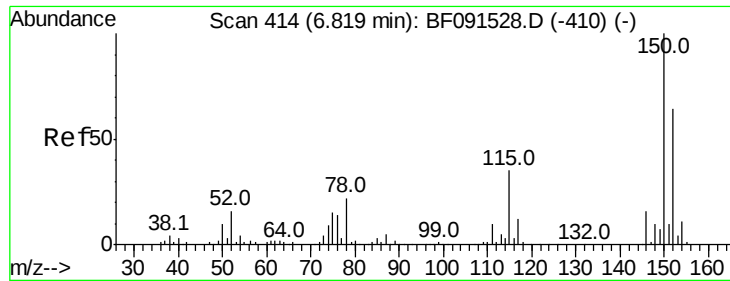
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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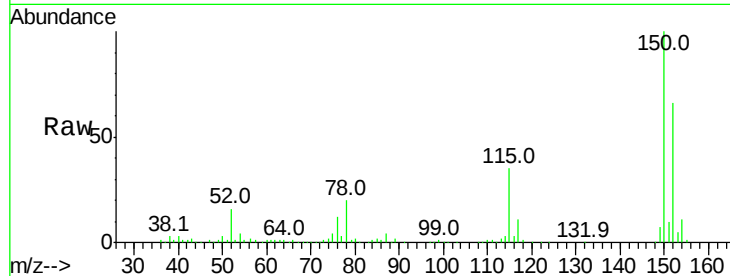


#1

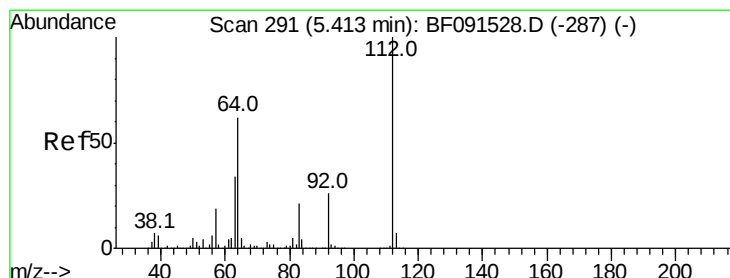
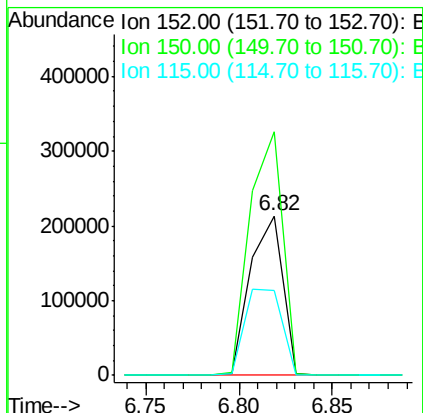
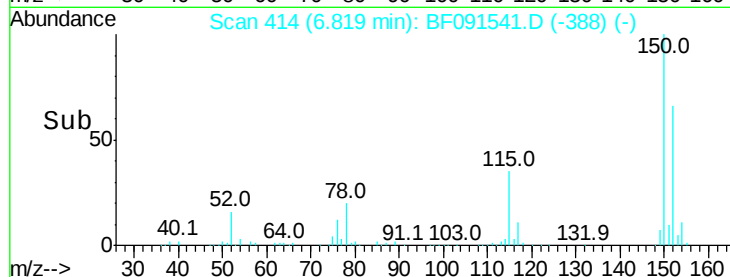
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.82 min Scan# 414  
 Delta R.T. -0.00 min  
 Lab File: BF091541.D  
 Acq: 9 Dec 2016 21:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EFF-WW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.5 | 122.5 | 183.7 |
| 115     | 53.0  | 51.8  | 77.8  |



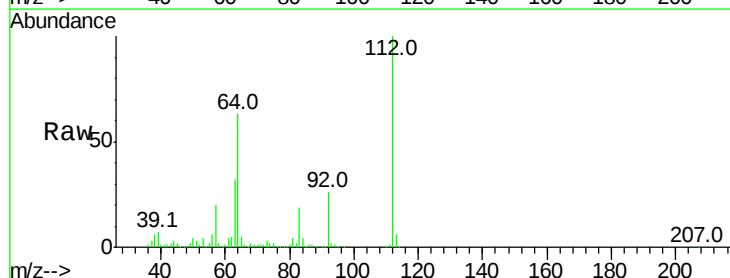
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



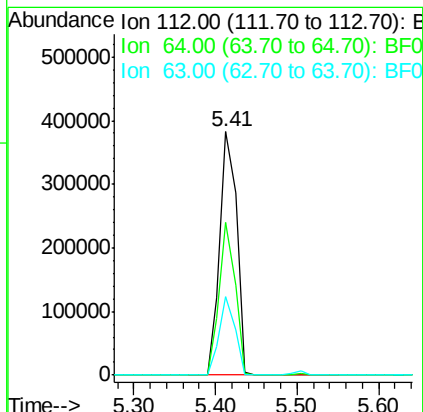
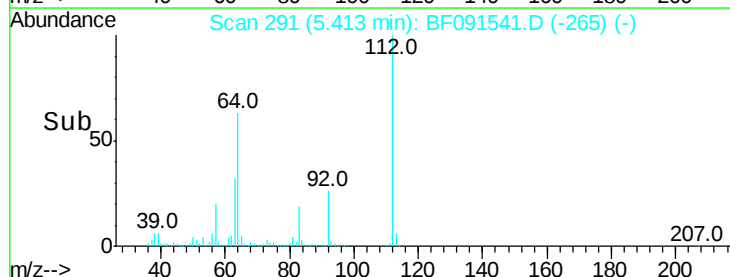
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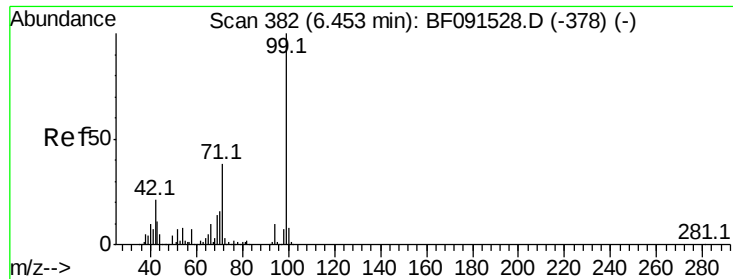
2-Fluorophenol  
 Concen: 35.97 ng  
 RT: 5.41 min Scan# 291  
 Delta R.T. 0.00 min  
 Lab File: BF091541.D  
 Acq: 9 Dec 2016 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.7  | 61.5  | 92.3  |
| 63      | 32.1  | 33.3  | 49.9# |



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: 22.71 ng

RT: 6.46 min Scan# 383

Delta R.T. 0.01 min

Lab File: BF091541.D

Acq: 9 Dec 2016 21:43

Instrument :

BNA\_F

ClientSampleId :

EFF-WW

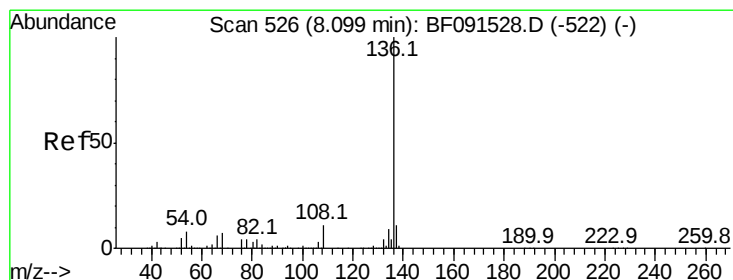
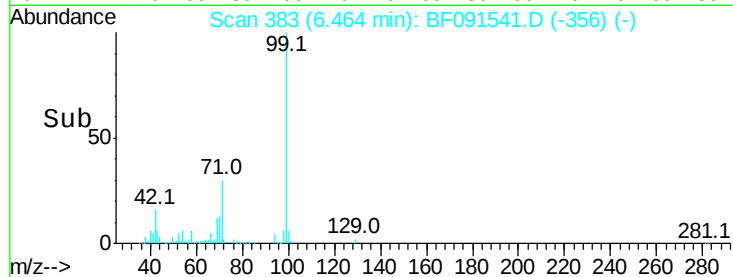
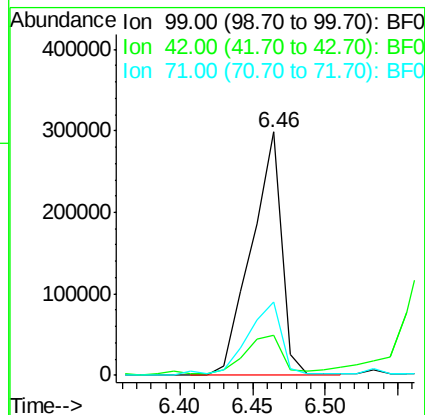
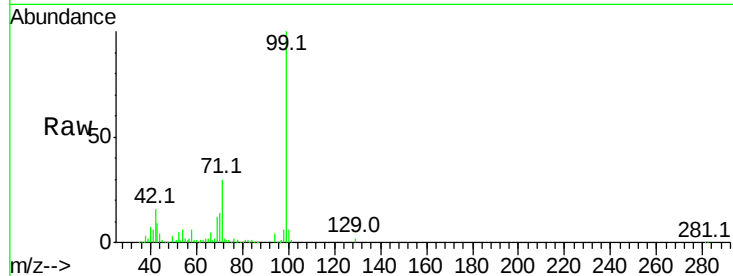
Tot Ion: 99 Resp: 432312

Ion Ratio Lower Upper

99 100

42 16.4 20.6 31.0#

71 30.4 29.9 44.9



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 526

Delta R.T. -0.00 min

Lab File: BF091541.D

Acq: 9 Dec 2016 21:43

Tgt Ion: 136 Resp: 770911

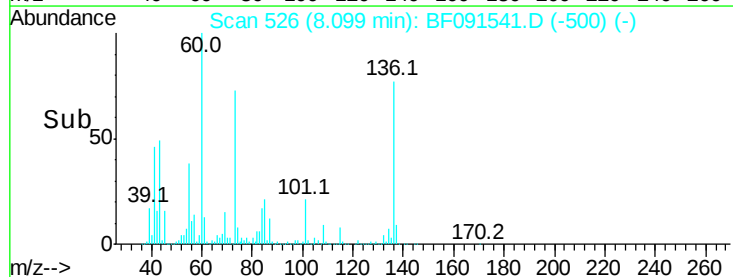
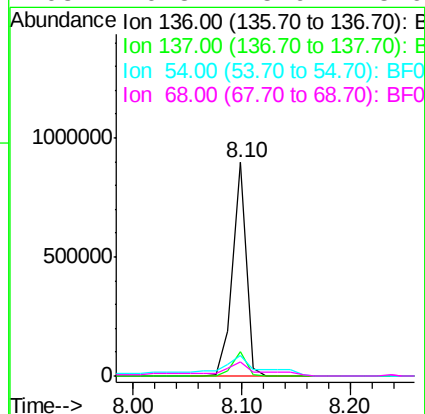
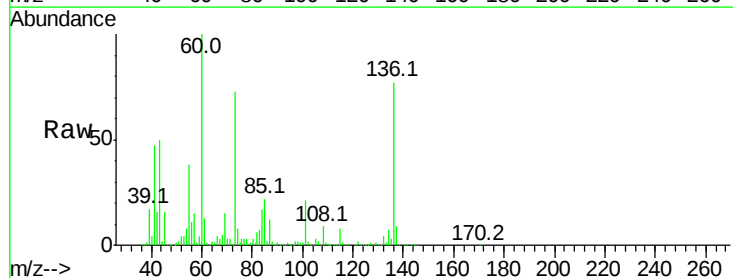
Ion Ratio Lower Upper

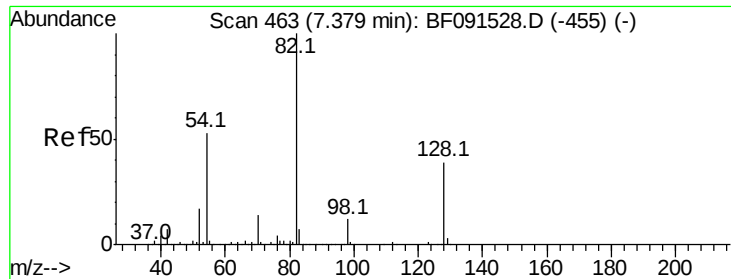
136 100

137 11.2 9.1 13.7

54 9.8 9.1 13.7

68 6.8 5.9 8.9



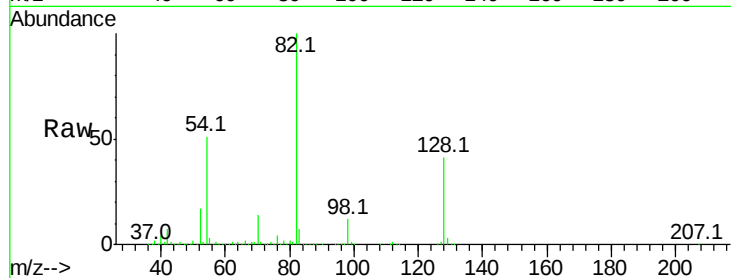


#23  
 Nitrobenzene-d5  
 Concen: 105.41 ng  
 RT: 7.38 min Scan# 463  
 Delta R.T. -0.00 min  
 Lab File: BF091541.D  
 Acq: 9 Dec 2016 21:43

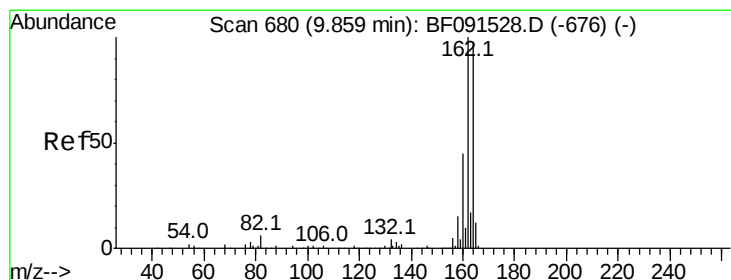
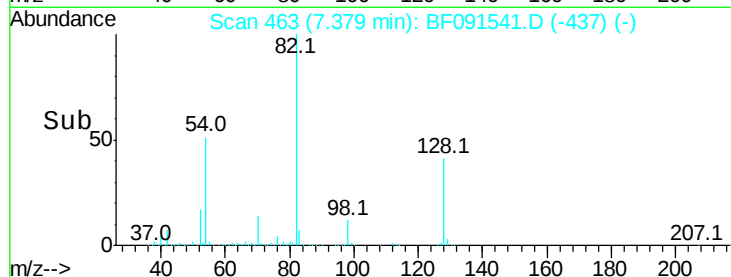
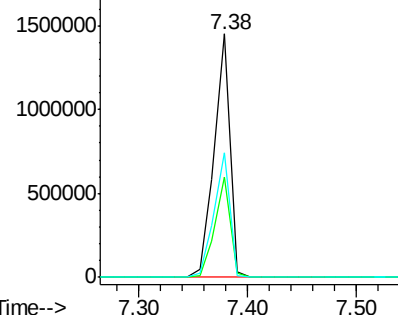
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EFF-WW

Tot Ion: 82 Resp: 1455977  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 41.1  | 31.8  | 47.6  |
| 54  | 51.2  | 49.1  | 73.7  |



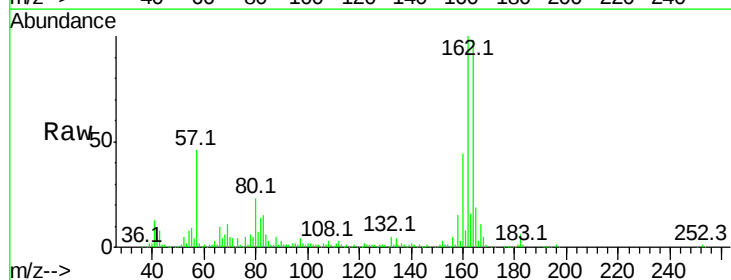
Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0



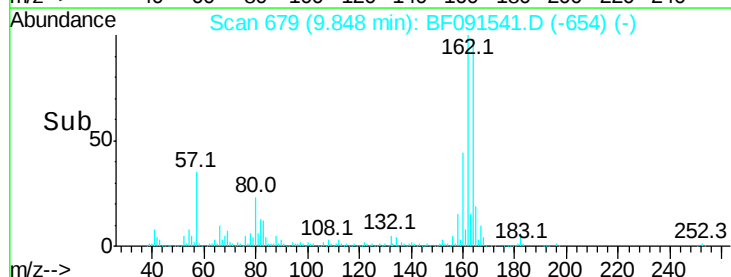
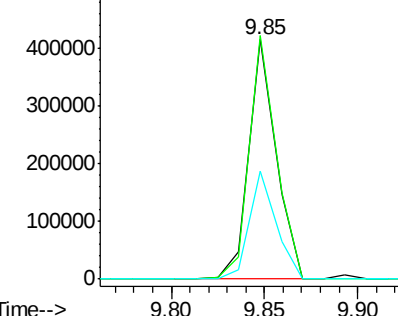
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.85 min Scan# 679  
 Delta R.T. -0.01 min  
 Lab File: BF091541.D  
 Acq: 9 Dec 2016 21:43

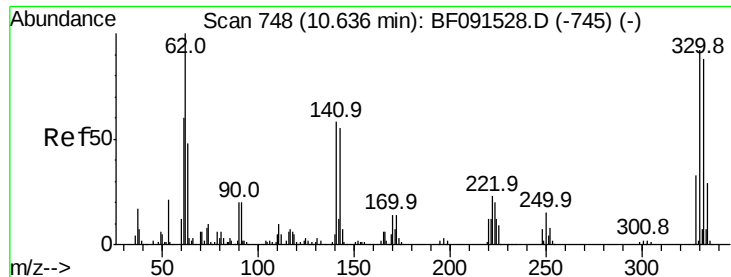
Tgt Ion:164 Resp: 421266  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 101.7 | 82.6  | 124.0 |
| 160 | 45.1  | 36.7  | 55.1  |



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

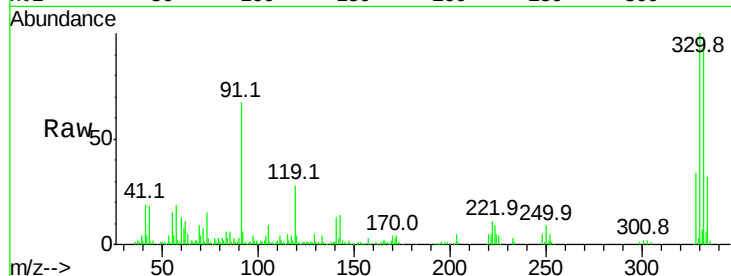




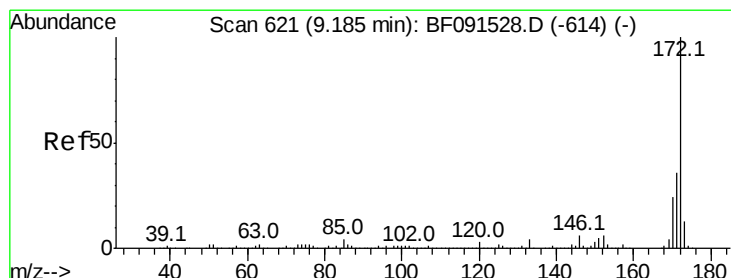
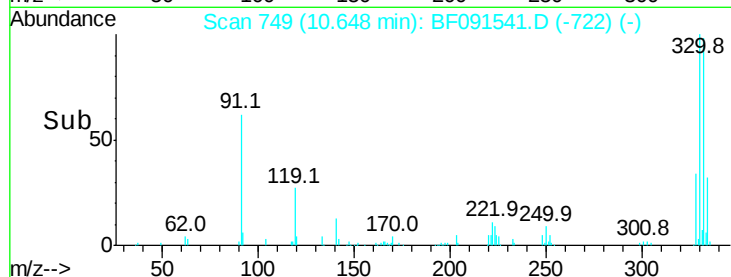
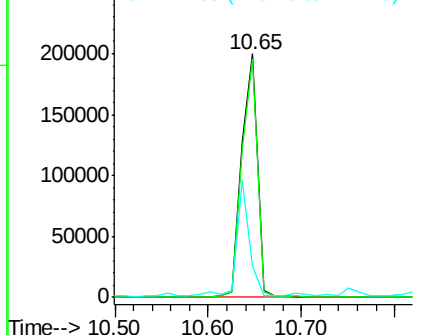
#41  
 2,4,6-Tribromophenol  
 Concen: 67.45 ng  
 RT: 10.65 min Scan# 749  
 Delta R.T. 0.01 min  
 Lab File: BF091541.D  
 Acq: 9 Dec 2016 21:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EFF-WW

Tot Ion:330 Resp: 235999  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 76.2 114.4  
 141 38.7 33.6 50.4

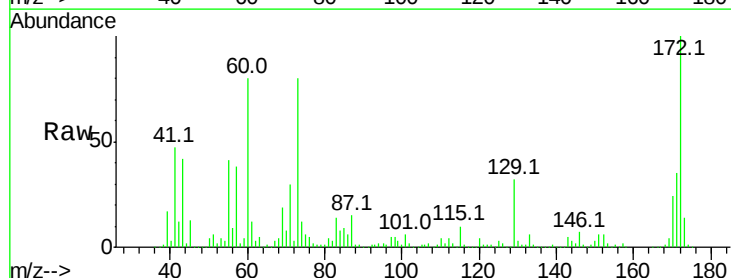


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

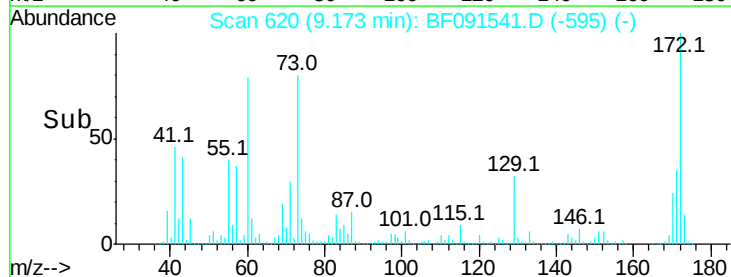
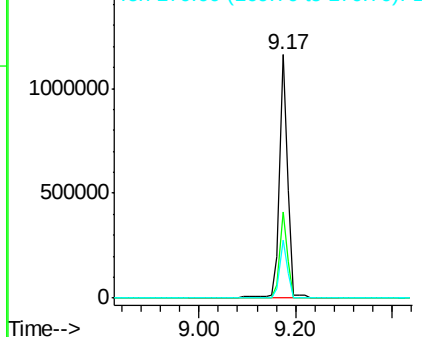


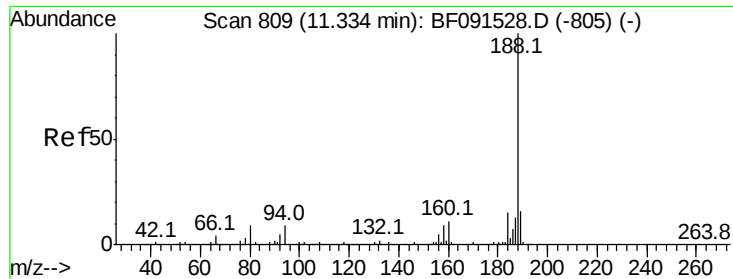
#44  
 2-Fluorobiphenyl  
 Concen: 56.07 ng  
 RT: 9.17 min Scan# 620  
 Delta R.T. -0.01 min  
 Lab File: BF091541.D  
 Acq: 9 Dec 2016 21:43

Tgt Ion:172 Resp: 1366906  
 Ion Ratio Lower Upper  
 172 100  
 171 35.4 29.4 44.0  
 170 23.6 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

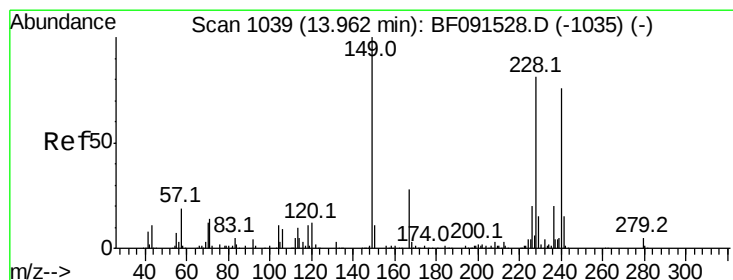
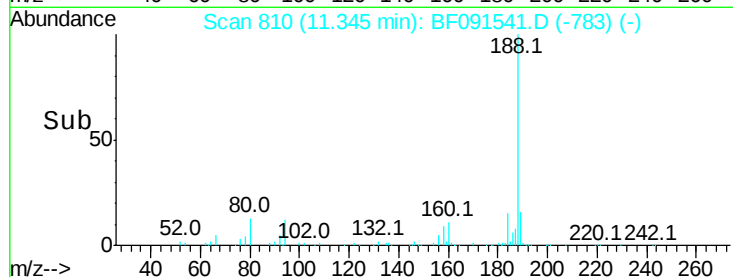
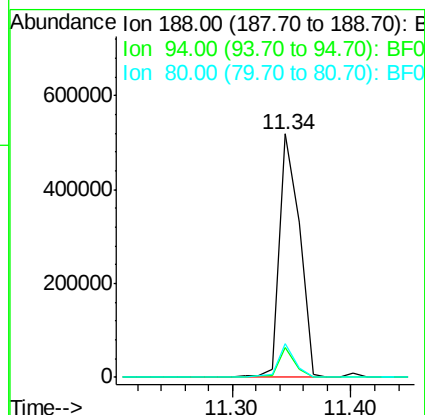
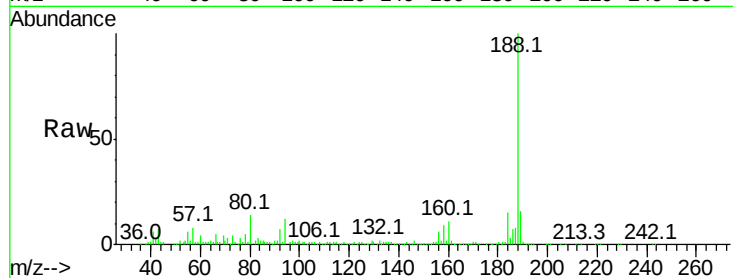




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.34 min Scan# 810  
Delta R.T. 0.01 min  
Lab File: BF091541.D  
Acq: 9 Dec 2016 21:43

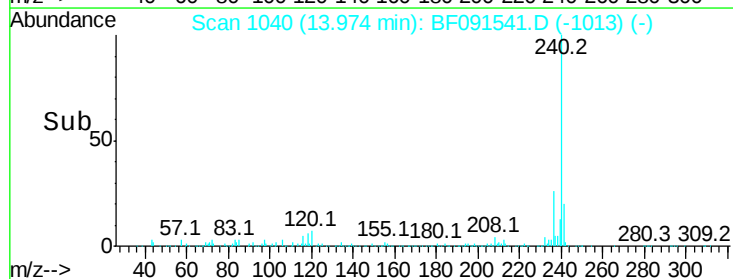
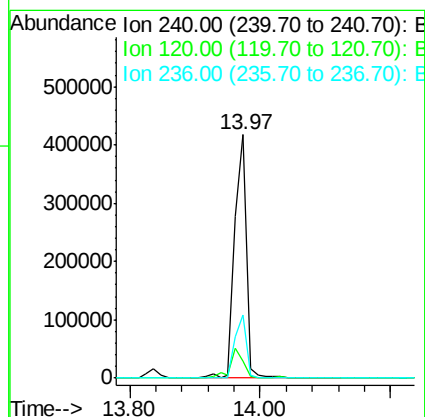
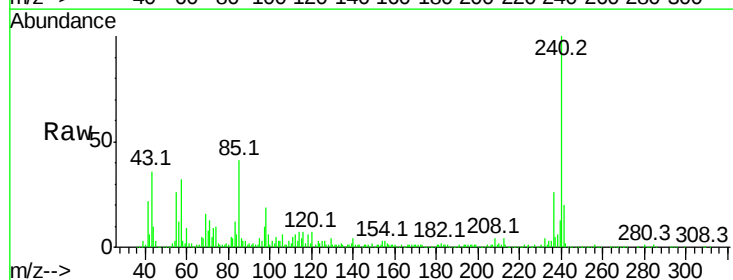
Instrument :  
BNA\_F  
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EFF-WW

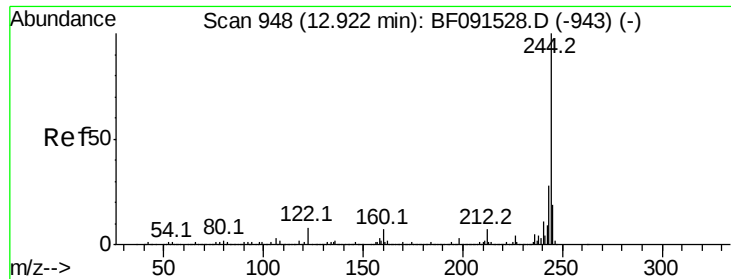
Tot Ion:188 Resp: 603458  
Ion Ratio Lower Upper  
188 100  
94 12.1 9.2 13.8  
80 13.6 10.5 15.7



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.97 min Scan# 1040  
Delta R.T. 0.01 min  
Lab File: BF091541.D  
Acq: 9 Dec 2016 21:43

Tgt Ion:240 Resp: 507472  
Ion Ratio Lower Upper  
240 100  
120 7.1 12.1 18.1#  
236 25.8 21.0 31.6

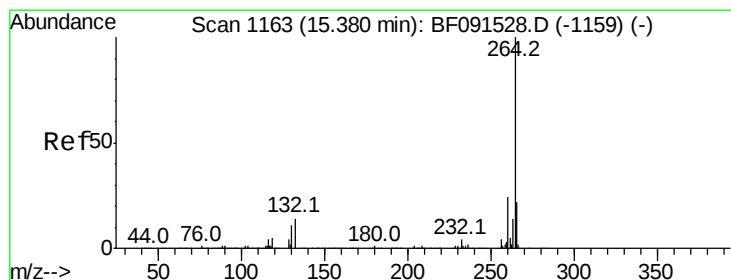
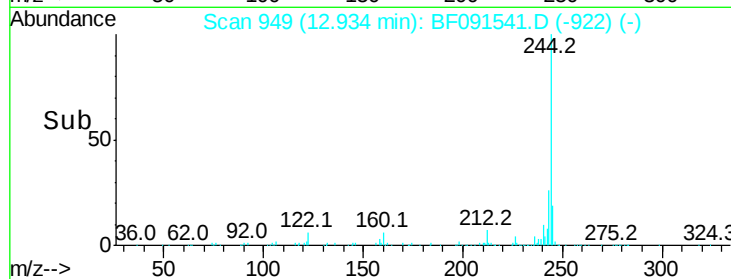
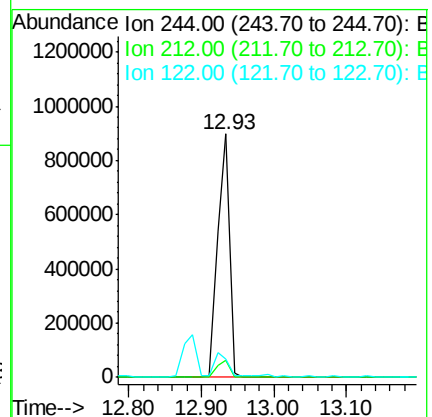
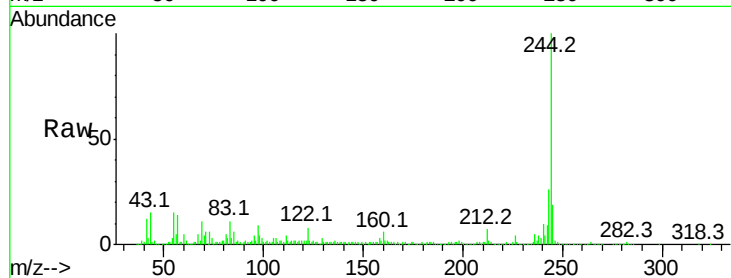




#78  
 Terphenyl-d14  
 Concen: 45.08 ng  
 RT: 12.93 min Scan# 949  
 Delta R.T. 0.01 min  
 Lab File: BF091541.D  
 Acq: 9 Dec 2016 21:43

Instrument :  
 BNA\_F  
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Tot Ion:244 Resp: 1008167  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 6.5 9.7  
 122 7.6 9.5 14.3#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.38 min Scan# 1163  
 Delta R.T. -0.00 min  
 Lab File: BF091541.D  
 Acq: 9 Dec 2016 21:43

Tgt Ion:264 Resp: 540486  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 18.8 28.2  
 265 21.6 17.0 25.6

