

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101216\  
 Data File : BF090530.D  
 Acq On : 12 Oct 2016 12:51  
 Operator : UM/SJ  
 Sample : PB93973BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB93973BL

Quant Time: Oct 12 15:48:03 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 11 16:14:43 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.94  | 152  | 209981   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.23  | 136  | 895297   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.99  | 164  | 472741   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.48 | 188  | 821016   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.12 | 240  | 681060   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.60 | 264  | 572402   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.58  | 112  | 1552402  | 115.02 | ng    | 0.02     |
| 7) Phenol-d6                | 6.59  | 99   | 2033906  | 119.41 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.51  | 82   | 1268887  | 76.87  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.78 | 330  | 513628   | 109.61 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 2144901  | 76.25  | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.07 | 244  | 2264908  | 81.27  | ng    | -0.01    |

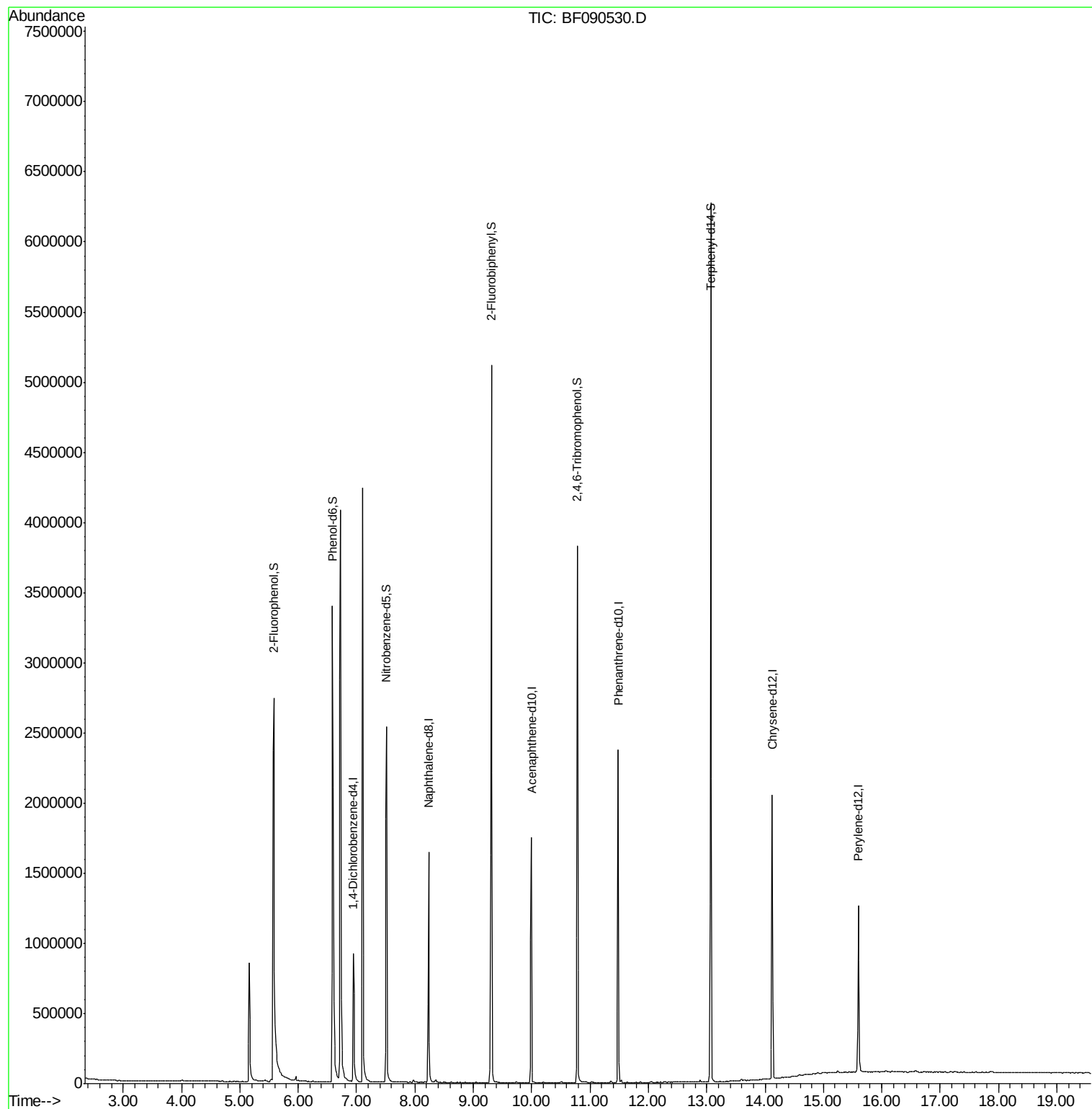
Target Compounds Qvalue

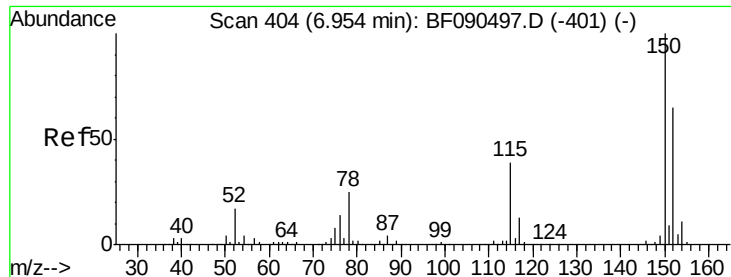
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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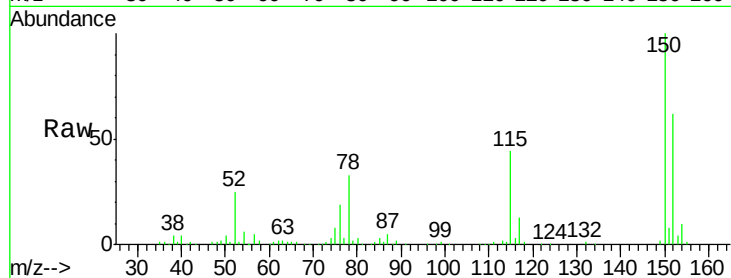


#1

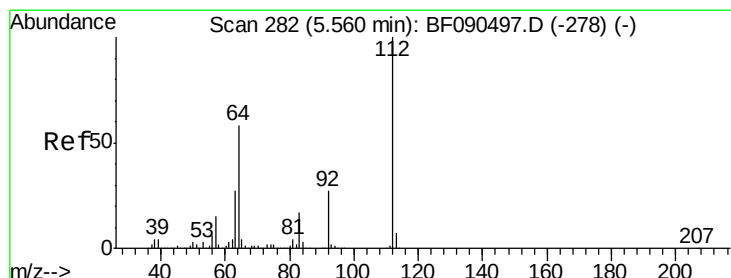
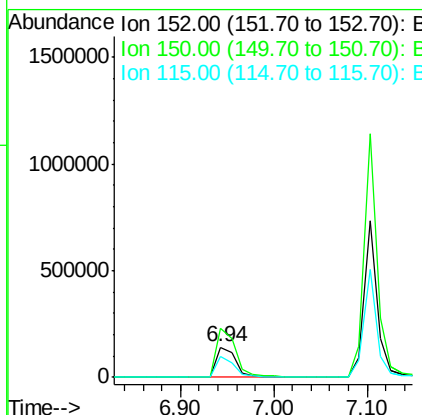
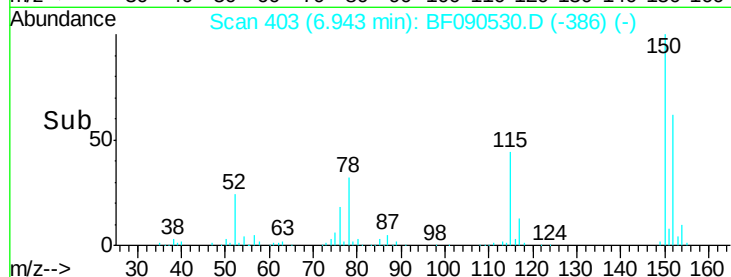
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.94 min Scan# 403  
Delta R.T. -0.01 min  
Lab File: BF090530.D  
Acq: 12 Oct 2016 12:51

Instrument :  
BNA\_F  
ClientSampleId :  
PB93973BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.0 | 124.6 | 186.8 |
| 115     | 69.9  | 46.2  | 69.4  |



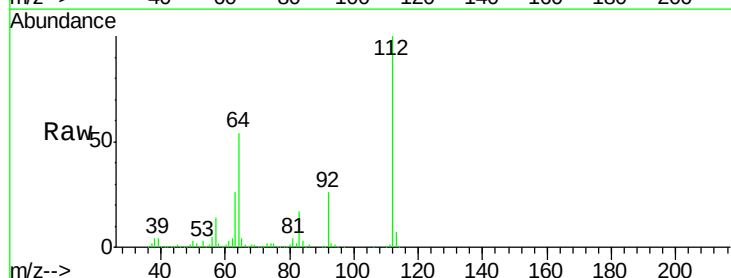
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



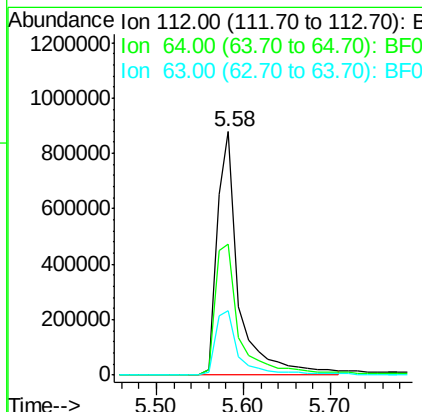
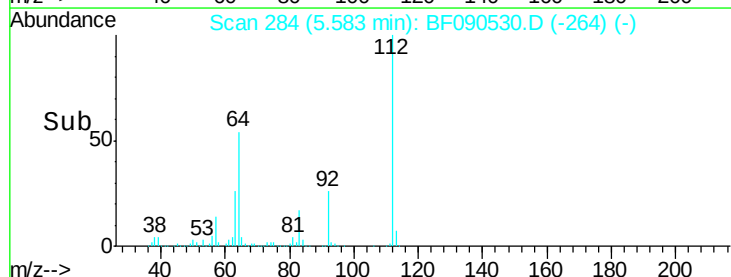
#5

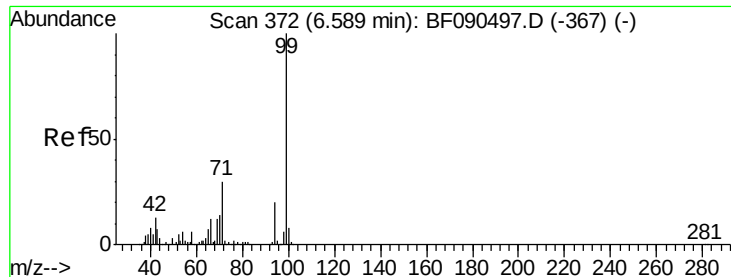
2-Fluorophenol  
Concen: 115.02 ng  
RT: 5.58 min Scan# 284  
Delta R.T. 0.02 min  
Lab File: BF090530.D  
Acq: 12 Oct 2016 12:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.9  | 57.9  | 86.9  |
| 63      | 26.2  | 29.6  | 44.4  |



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: 119.41 ng

RT: 6.59 min Scan# 372

Delta R.T. 0.00 min

Lab File: BF090530.D

Acq: 12 Oct 2016 12:51

Instrument :

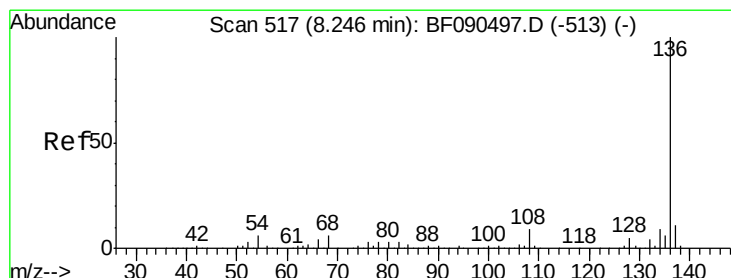
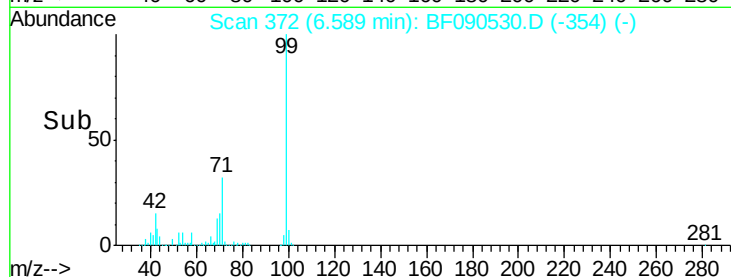
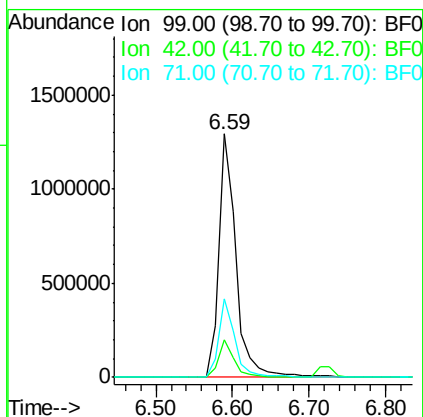
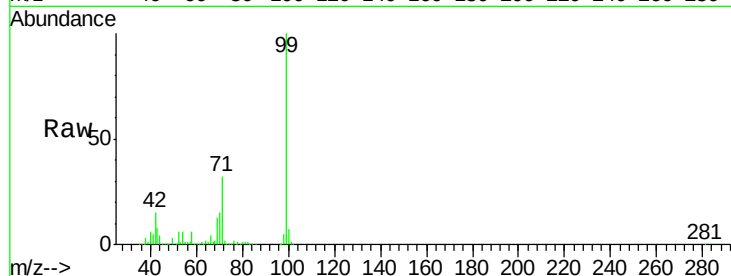
BNA\_F

ClientSampleId :

PB93973BL

Tot Ion: 99 Resp: 2033906

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.2  | 20.0  | 30.0# |
| 71  | 32.5  | 27.9  | 41.9  |



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.23 min Scan# 516

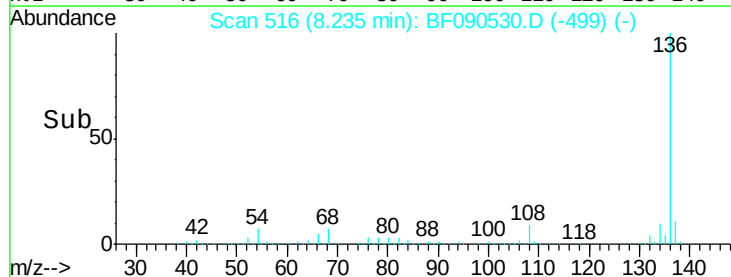
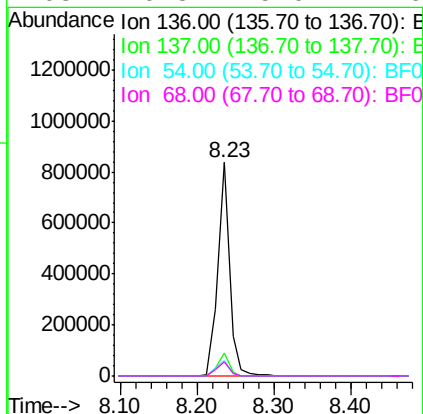
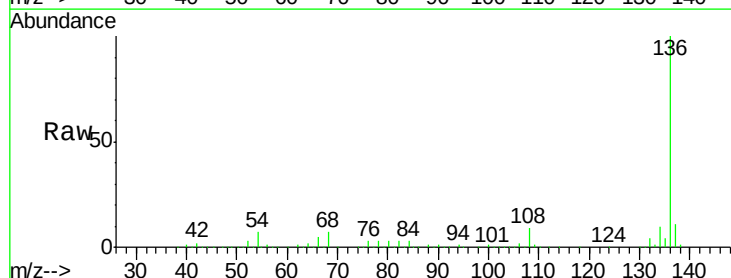
Delta R.T. -0.01 min

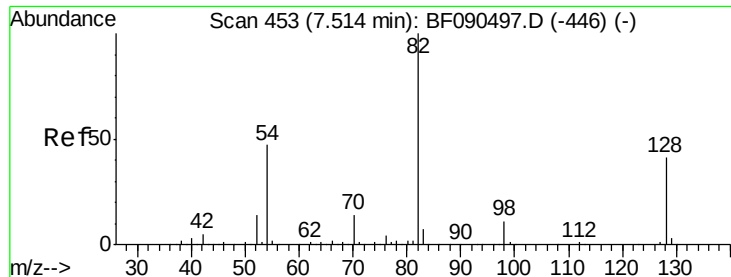
Lab File: BF090530.D

Acq: 12 Oct 2016 12:51

Tgt Ion: 136 Resp: 895297

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.1  | 9.0   | 13.6  |
| 54  | 7.3   | 6.6   | 10.0  |
| 68  | 6.8   | 5.0   | 7.6   |

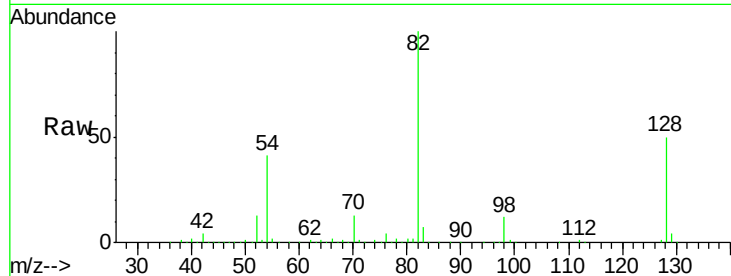




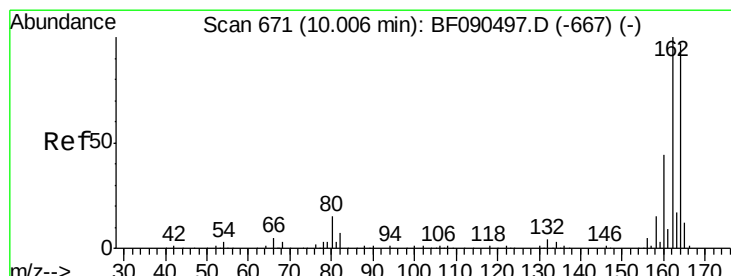
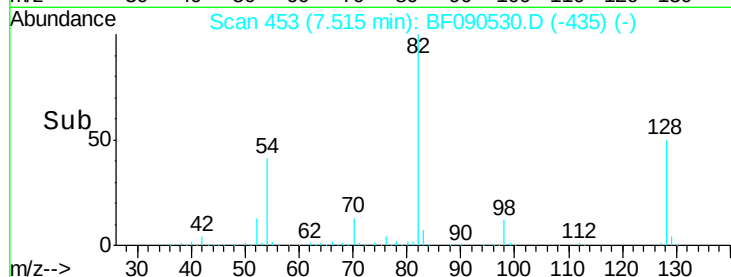
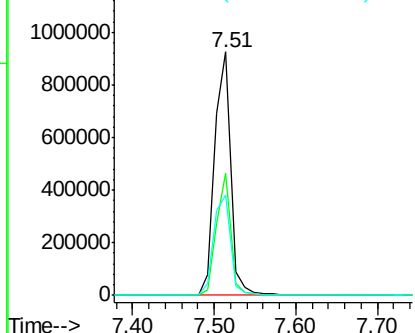
#23  
 Nitrobenzene-d5  
 Concen: 76.87 ng  
 RT: 7.51 min Scan# 453  
 Delta R.T. 0.00 min  
 Lab File: BF090530.D  
 Acq: 12 Oct 2016 12:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB93973BL

Tot Ion: 82 Resp: 1268887  
 Ion Ratio Lower Upper  
 82 100  
 128 50.3 40.0 60.0  
 54 41.2 42.6 64.0#

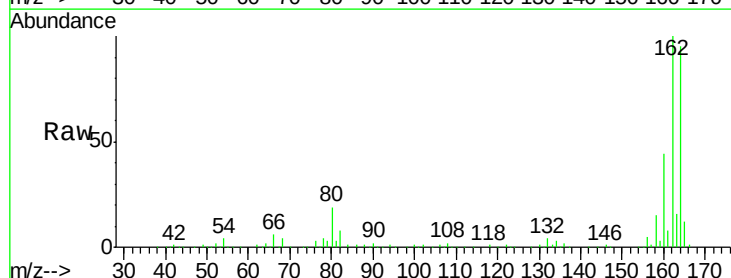


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

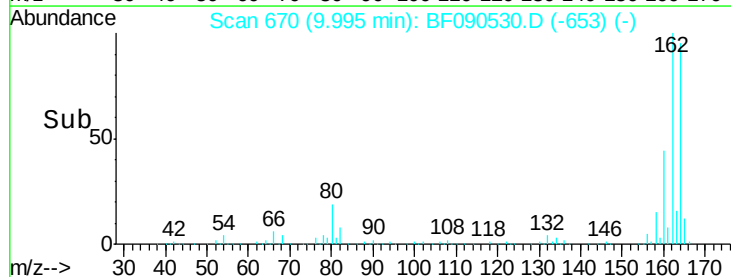
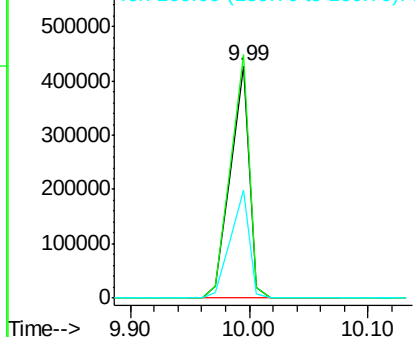


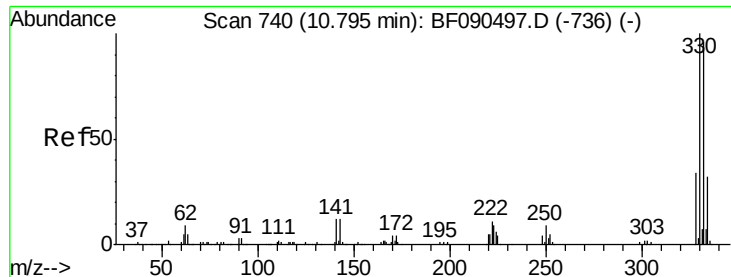
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.99 min Scan# 670  
 Delta R.T. -0.01 min  
 Lab File: BF090530.D  
 Acq: 12 Oct 2016 12:51

Tgt Ion:164 Resp: 472741  
 Ion Ratio Lower Upper  
 164 100  
 162 104.8 80.1 120.1  
 160 46.5 36.3 54.5



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

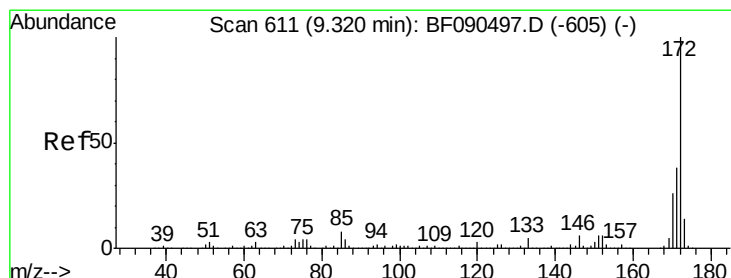
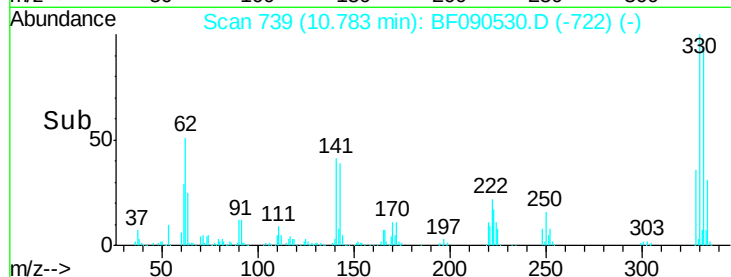
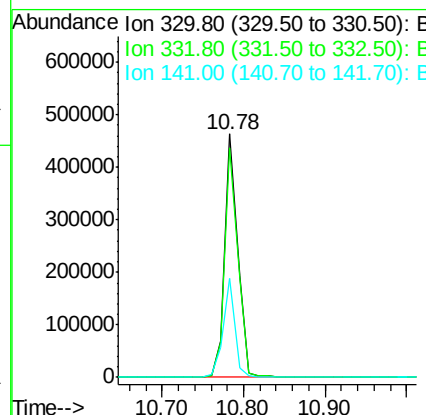
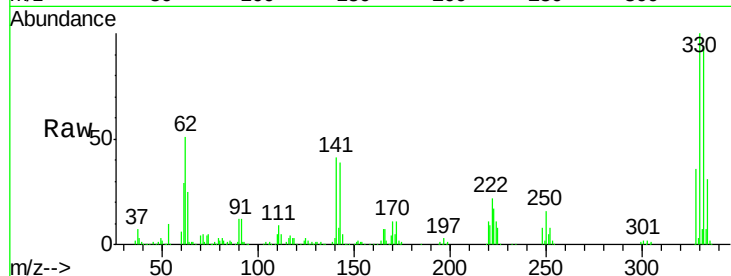




#41  
 2,4,6-Tribromophenol  
 Concen: 109.61 ng  
 RT: 10.78 min Scan# 739  
 Delta R.T. -0.01 min  
 Lab File: BF090530.D  
 Acq: 12 Oct 2016 12:51

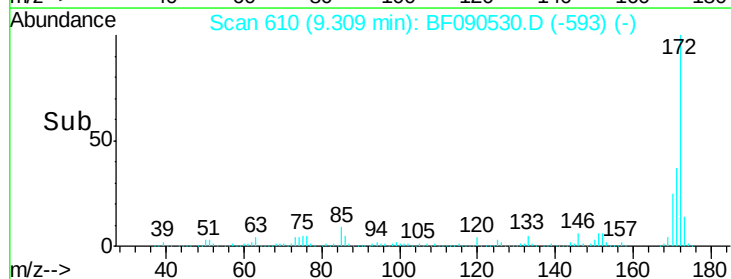
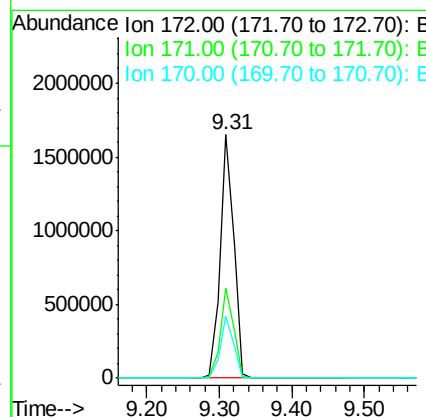
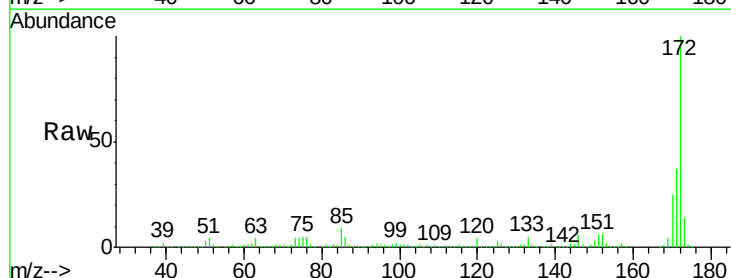
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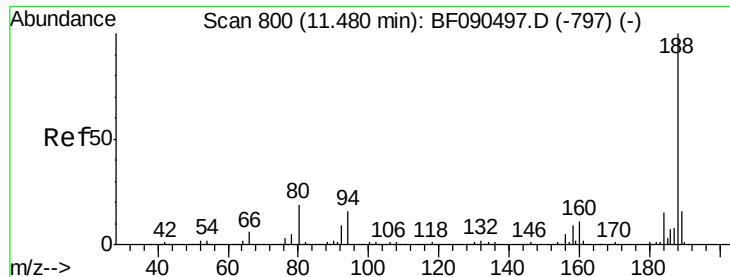
Tot Ion:330 Resp: 513628  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 75.4 113.0  
 141 36.7 26.9 40.3



#44  
 2-Fluorobiphenyl  
 Concen: 76.25 ng  
 RT: 9.31 min Scan# 610  
 Delta R.T. -0.01 min  
 Lab File: BF090530.D  
 Acq: 12 Oct 2016 12:51

Tgt Ion:172 Resp: 2144901  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 31.8 47.8  
 170 25.2 21.7 32.5

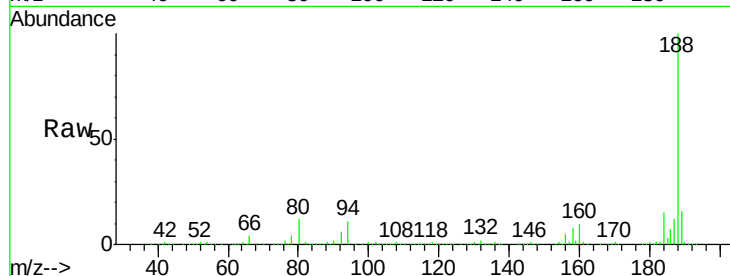




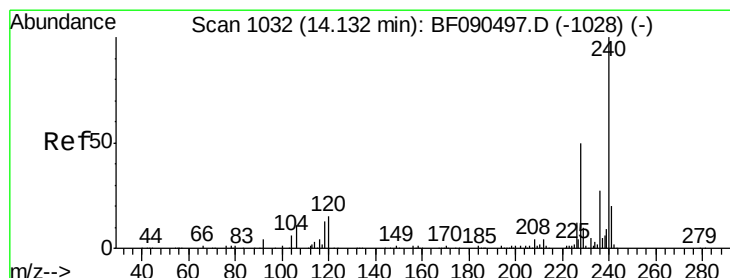
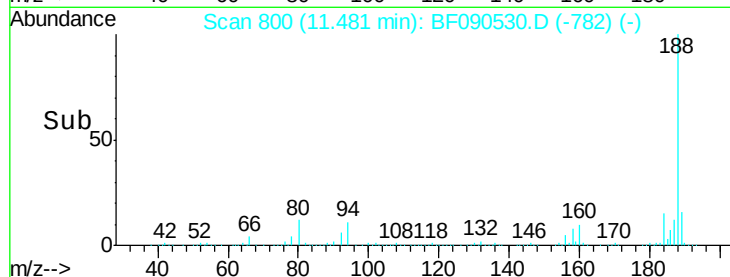
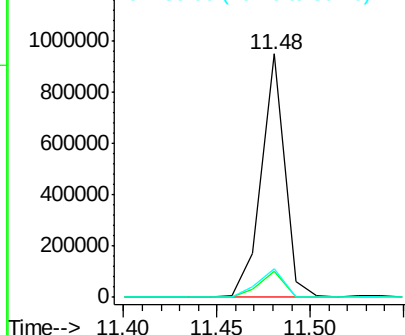
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.48 min Scan# 800  
Delta R.T. 0.00 min  
Lab File: BF090530.D  
Acq: 12 Oct 2016 12:51

Instrument :  
BNA\_F  
ClientSampleId :  
PB93973BL

Tot Ion:188 Resp: 821016  
Ion Ratio Lower Upper  
188 100  
94 10.9 8.2 12.2  
80 11.8 8.8 13.2

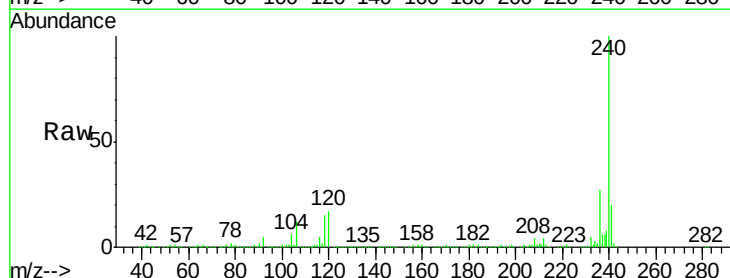


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

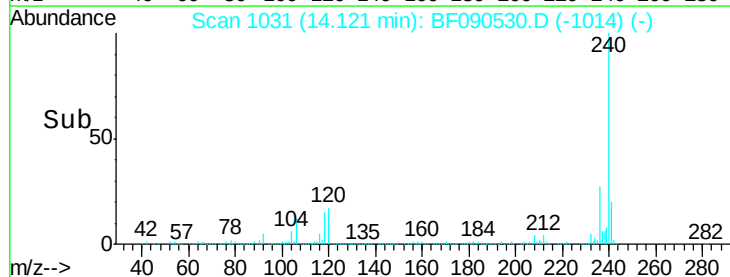
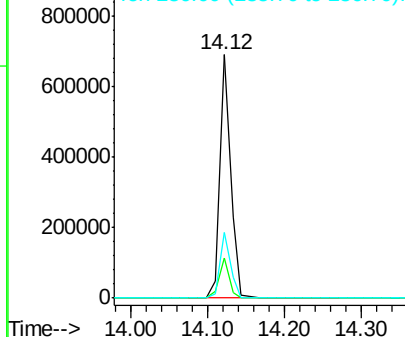


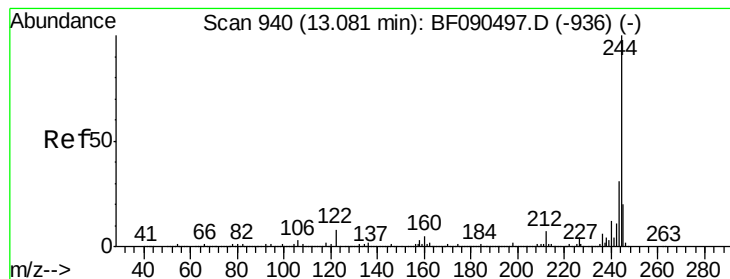
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.12 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: BF090530.D  
Acq: 12 Oct 2016 12:51

Tgt Ion:240 Resp: 681060  
Ion Ratio Lower Upper  
240 100  
120 16.6 8.6 13.0#  
236 27.2 21.6 32.4



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





#78

Terphenyl-d14

Concen: 81.27 ng

RT: 13.07 min Scan# 939

Delta R.T. -0.01 min

Lab File: BF090530.D

Acq: 12 Oct 2016 12:51

Instrument :

BNA\_F

ClientSampleId :

PB93973BL

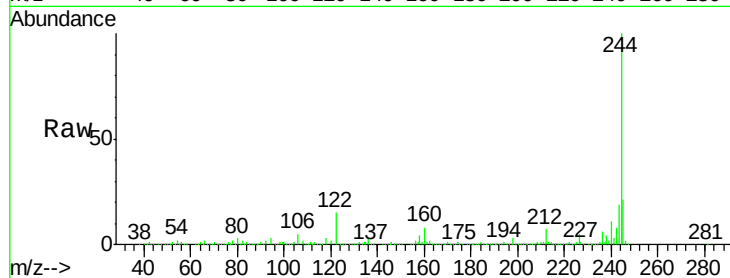
Tot Ion:244 Resp: 2264908

Ion Ratio Lower Upper

244 100

212 7.5 6.8 10.2

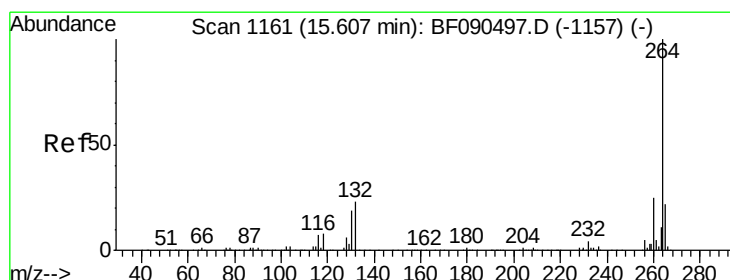
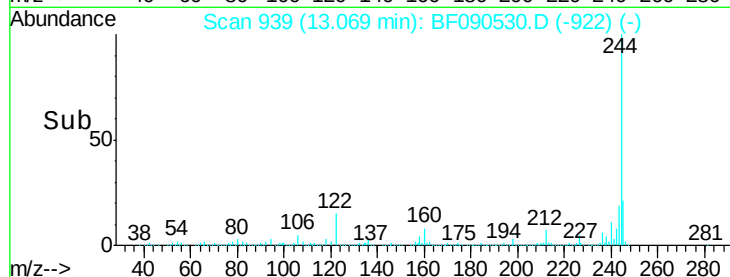
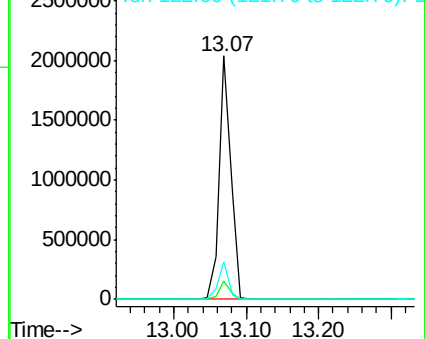
122 15.4 13.3 19.9



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: 15.60 min Scan# 1160

Delta R.T. -0.01 min

Lab File: BF090530.D

Acq: 12 Oct 2016 12:51

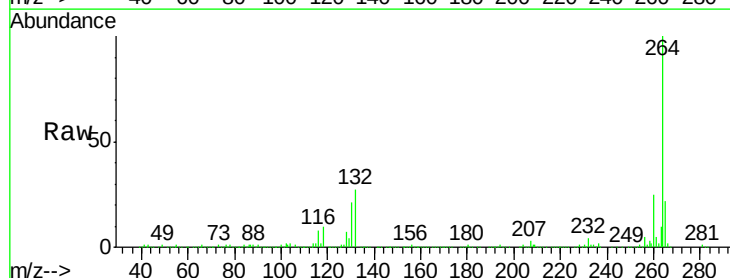
Tgt Ion:264 Resp: 572402

Ion Ratio Lower Upper

264 100

260 25.0 19.3 28.9

265 22.1 17.4 26.0



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

