

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101116\  
 Data File : BF090506.D  
 Acq On : 11 Oct 2016 17:14  
 Operator : UM/SJ  
 Sample : PB93839BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB93839BL

Manual Integrations  
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Quant Time: Oct 11 18:51:43 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   | 6.95  | 152  | 312837   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.23  | 136  | 1183648  | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.99  | 164  | 652707   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.48 | 188  | 1096077  | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.13 | 240  | 1116765  | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.61 | 264  | 915279   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.57  | 112  | 1632184  | 81.17 | ng    | 0.01     |
| 7) Phenol-d6                | 6.58  | 99   | 2032740  | 80.11 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.51  | 82   | 1301817  | 59.65 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.78 | 330  | 501574   | 77.52 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.32  | 172  | 2309125  | 59.45 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.08 | 244  | 2715496  | 59.42 | ng    | 0.00     |

Target Compounds Qvalue

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

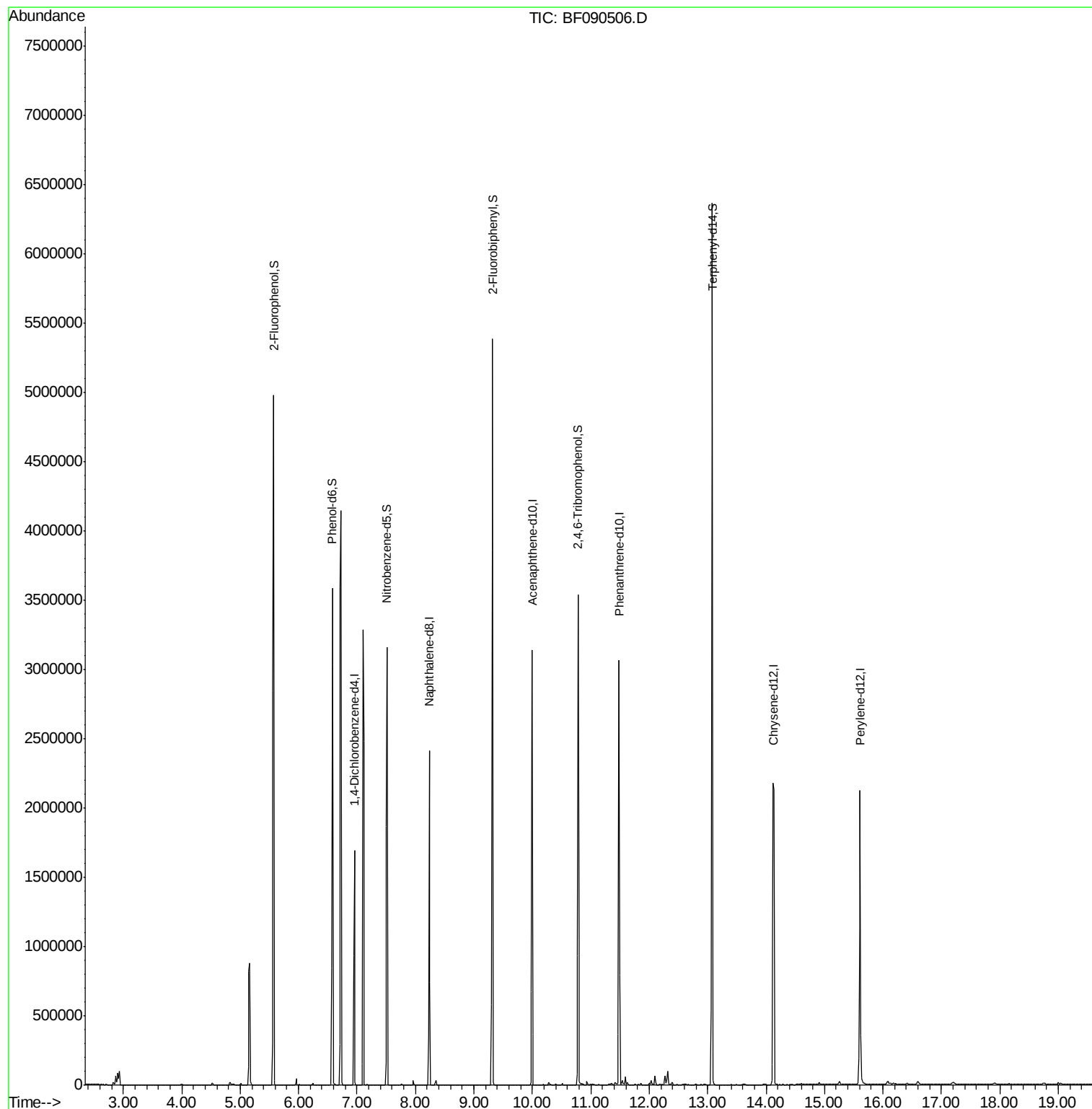
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101116\  
Data File : BF090506.D  
Acq On : 11 Oct 2016 17:14  
Operator : UM/SJ  
Sample : PB93839BL  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

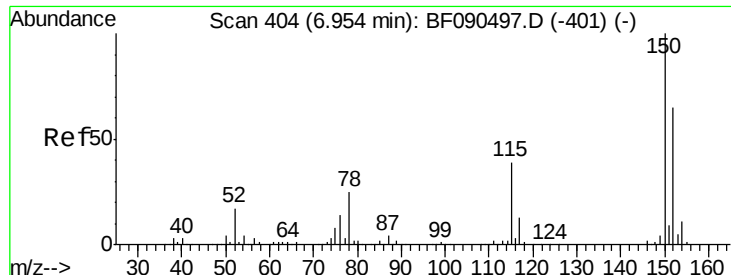
Instrument :  
BNA\_F  
ClientSampleId :  
PB93839BL

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Quant Time: Oct 11 18:51:43 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





#1

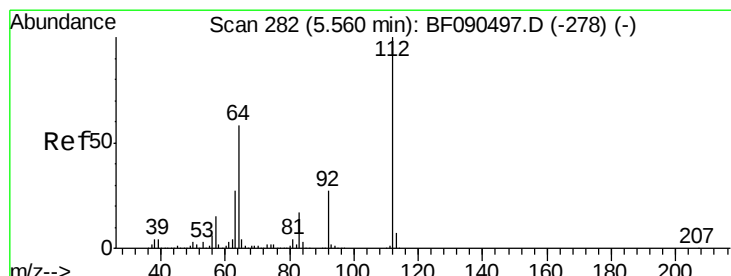
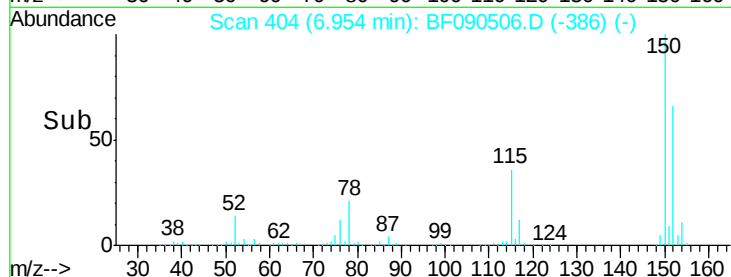
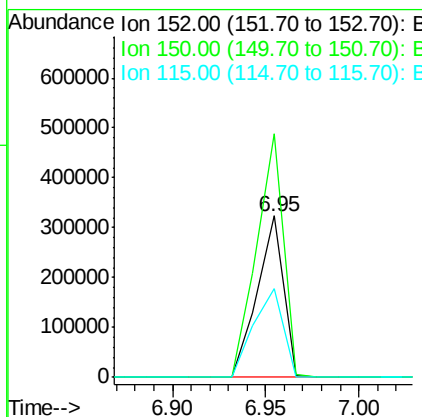
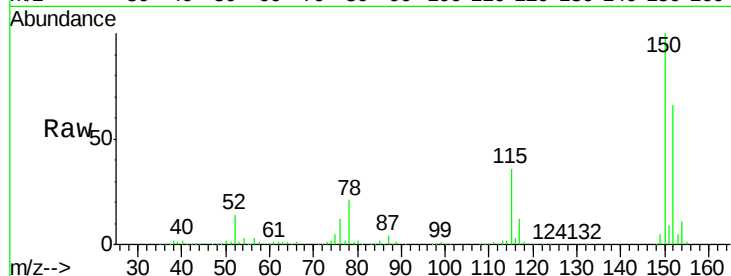
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.95 min Scan# 404  
Delta R.T. 0.00 min  
Lab File: BF090506.D  
Acq: 11 Oct 2016 17:14

Instrument :  
BNA\_F  
ClientSampleId :  
PB93839BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.1 | 124.6 | 186.8 |
| 115     | 54.9  | 46.2  | 69.4  |

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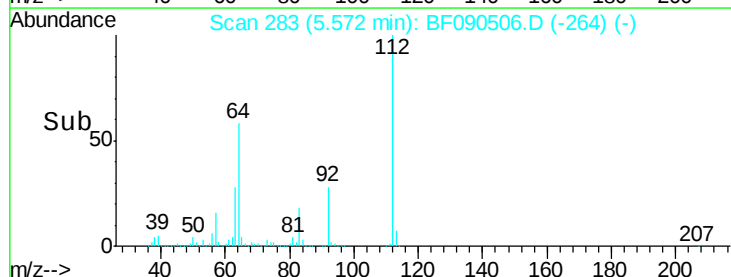
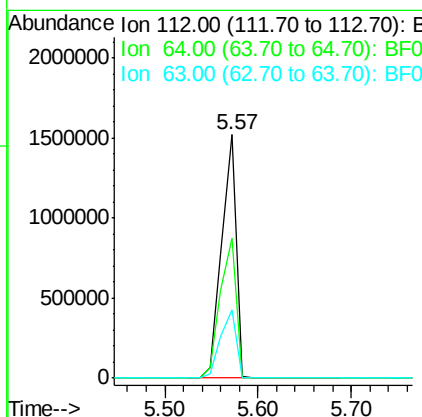
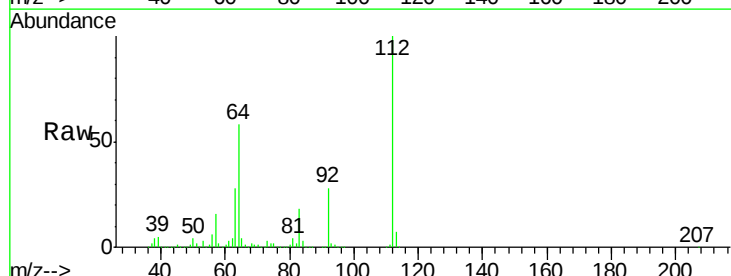
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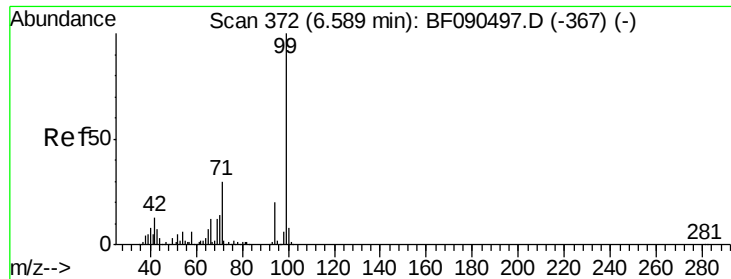


#5

2-Fluorophenol  
Concen: 81.17 ng  
RT: 5.57 min Scan# 283  
Delta R.T. 0.01 min  
Lab File: BF090506.D  
Acq: 11 Oct 2016 17:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.5  | 57.9  | 86.9# |
| 63      | 28.0  | 29.6  | 44.4# |





#7

Phenol-d6

Concen: 80.11 ng

RT: 6.58 min Scan# 371

Delta R.T. -0.01 min

Lab File: BF090506.D

Acq: 11 Oct 2016 17:14

Instrument :

BNA\_F

ClientSampleId :

PB93839BL

Tot Ion: 99 Resp: 2032740

Ion Ratio Lower Upper

99 100

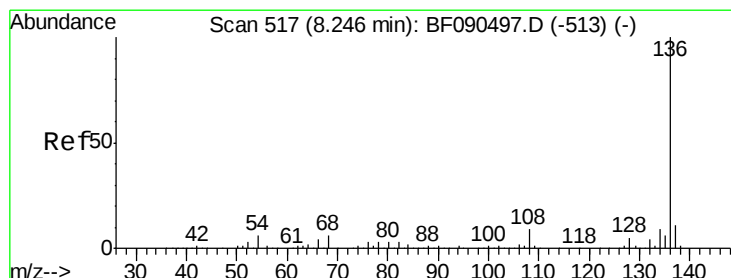
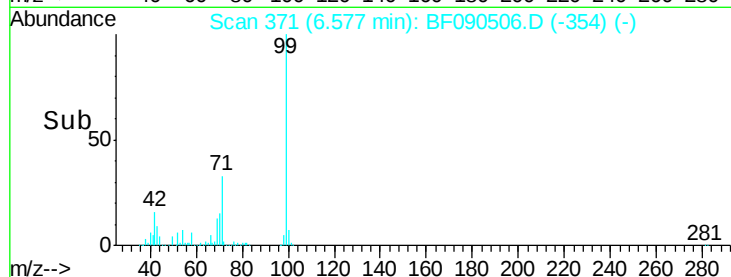
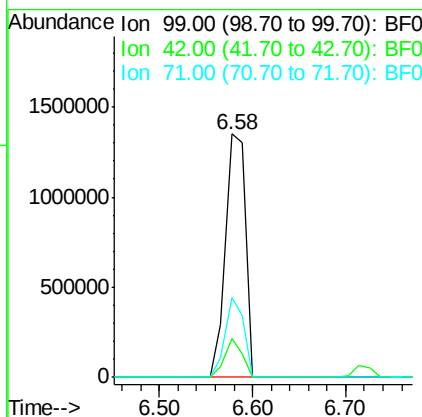
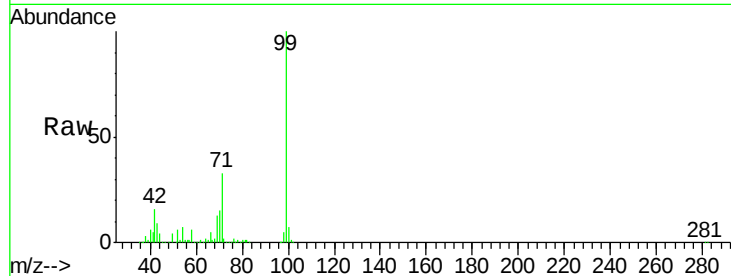
42 15.9 20.0 30.0#

71 32.6 27.9 41.9

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.23 min Scan# 516

Delta R.T. -0.01 min

Lab File: BF090506.D

Acq: 11 Oct 2016 17:14

Tgt Ion: 136 Resp: 1183648

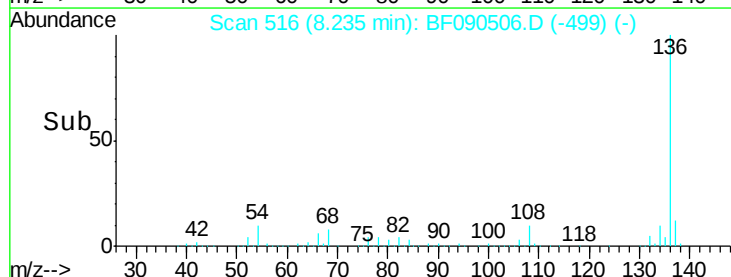
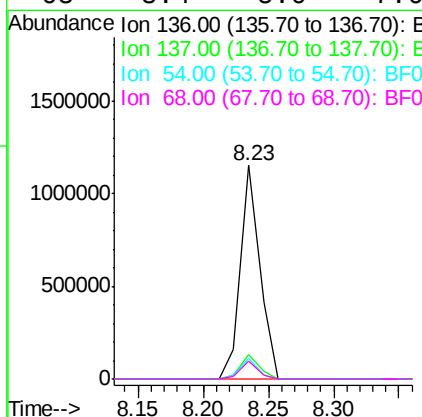
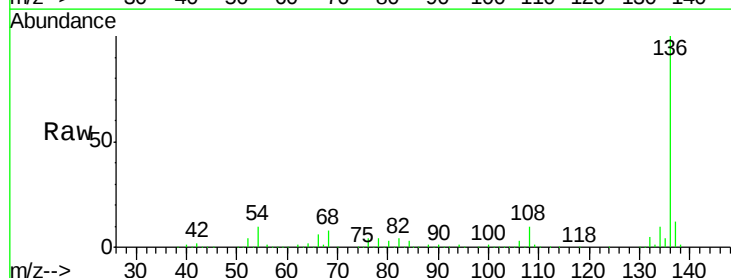
Ion Ratio Lower Upper

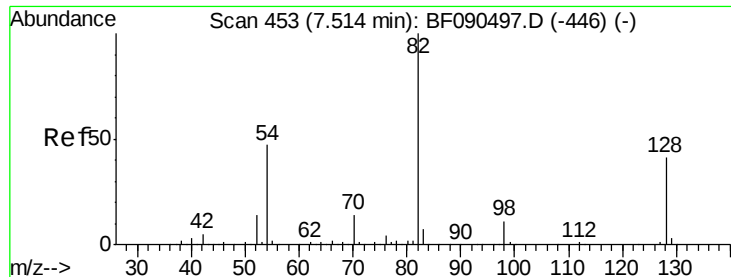
136 100

137 11.6 9.0 13.6

54 9.6 6.6 10.0

68 8.4 5.0 7.6#





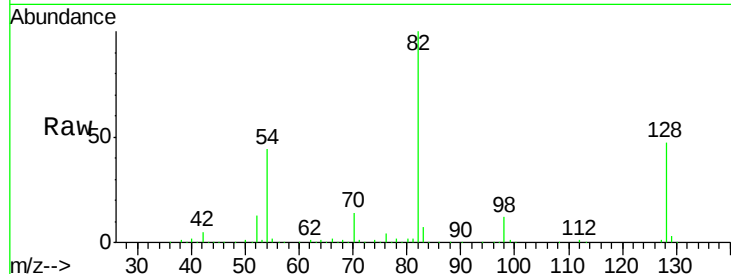
#23  
 Nitrobenzene-d5  
 Concen: 59.65 ng  
 RT: 7.51 min Scan# 453  
 Delta R.T. 0.00 min  
 Lab File: BF090506.D  
 Acq: 11 Oct 2016 17:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB93839BL

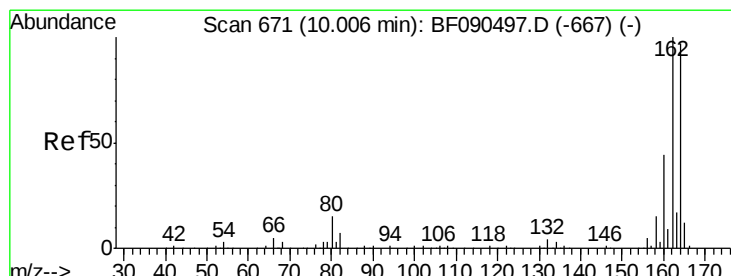
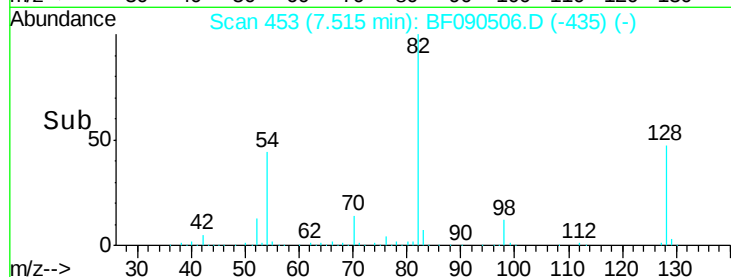
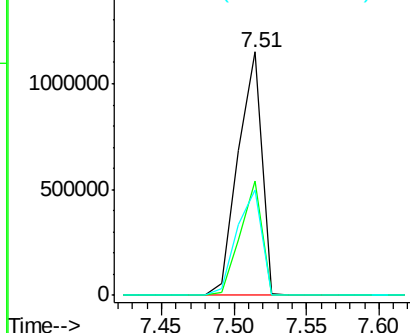
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 47.2  | 40.0  | 60.0  |
| 54      | 43.5  | 42.6  | 64.0  |

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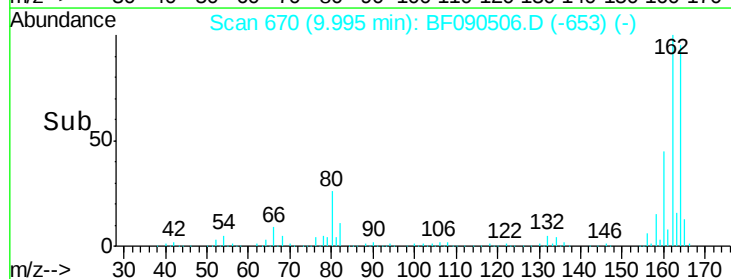
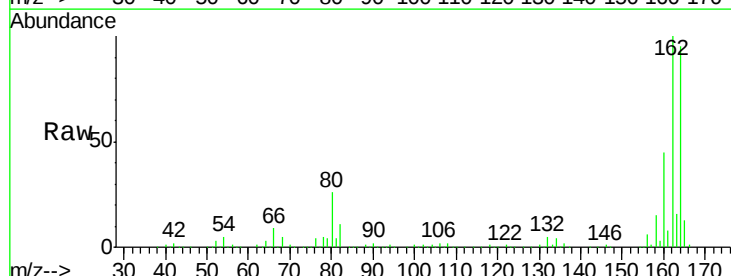
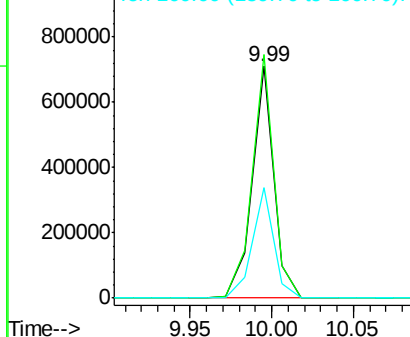
Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

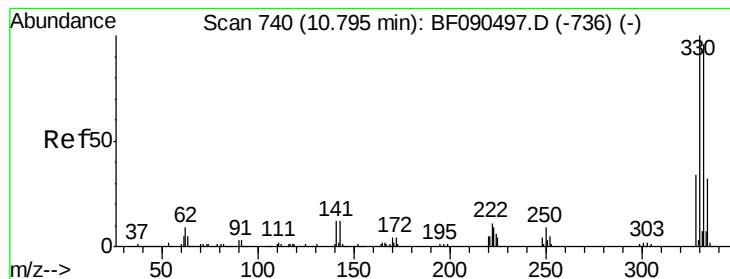


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.99 min Scan# 670  
 Delta R.T. -0.01 min  
 Lab File: BF090506.D  
 Acq: 11 Oct 2016 17:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.1 | 80.1  | 120.1 |
| 160     | 47.6  | 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





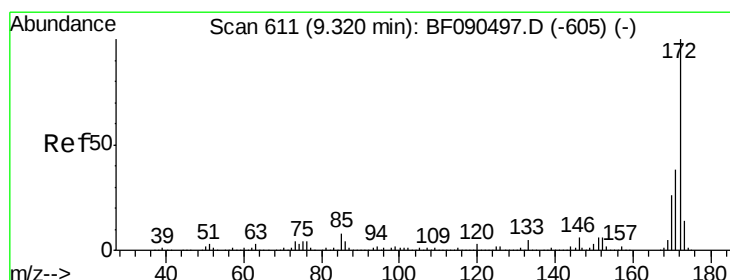
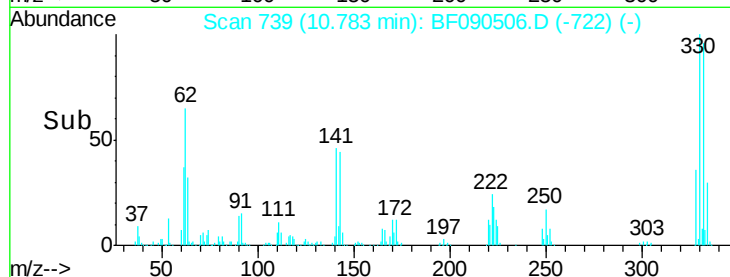
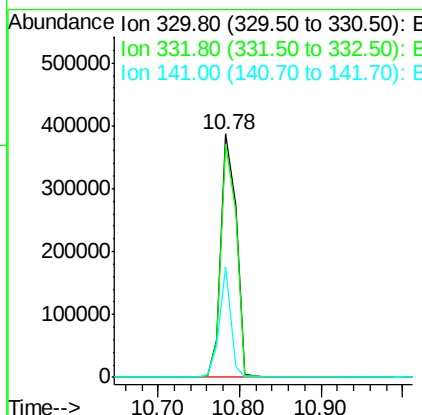
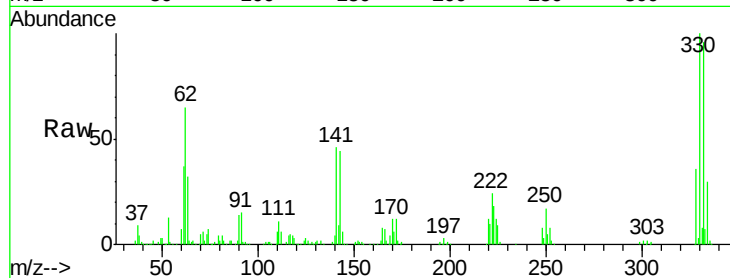
#41  
 2,4,6-Tribromophenol  
 Concen: 77.52 ng  
 RT: 10.78 min Scan# 739  
 Delta R.T. -0.01 min  
 Lab File: BF090506.D  
 Acq: 11 Oct 2016 17:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB93839BL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 501574 |       |       |
| 332     | 95.9  | 75.4   | 113.0 |       |
| 141     | 34.2  | 26.9   | 40.3  |       |

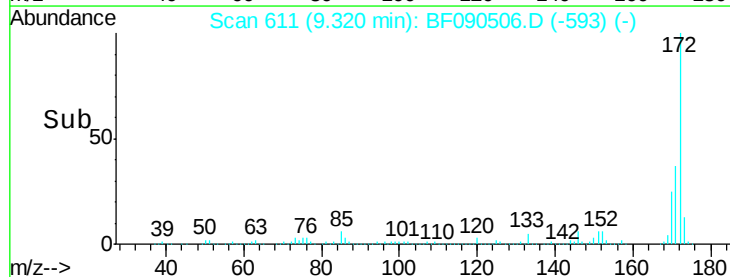
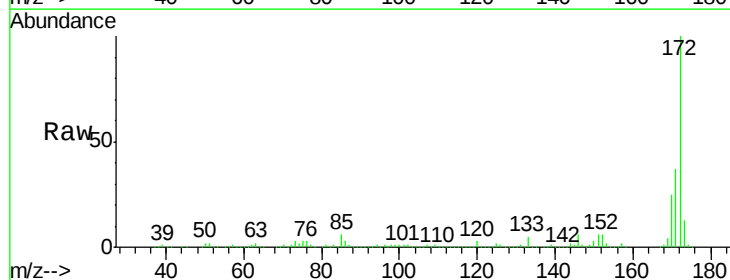
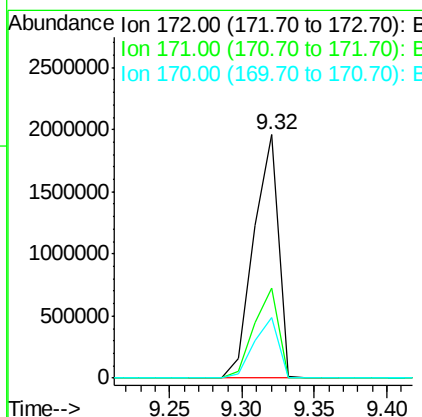
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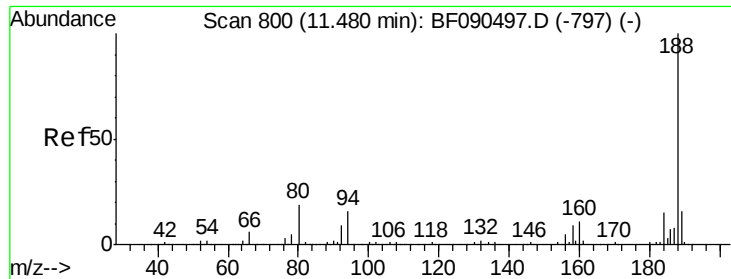
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#44  
 2-Fluorobiphenyl  
 Concen: 59.45 ng  
 RT: 9.32 min Scan# 611  
 Delta R.T. 0.00 min  
 Lab File: BF090506.D  
 Acq: 11 Oct 2016 17:14

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 2309125 |       |       |
| 171     | 36.9  | 31.8    | 47.8  |       |
| 170     | 25.0  | 21.7    | 32.5  |       |





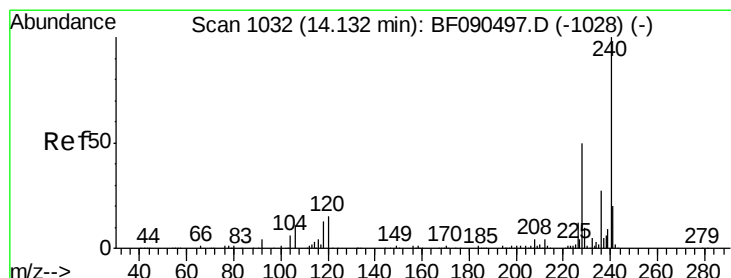
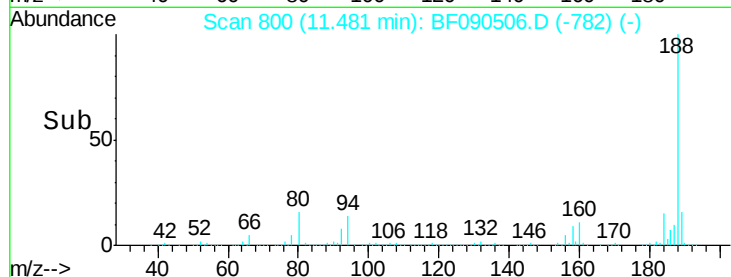
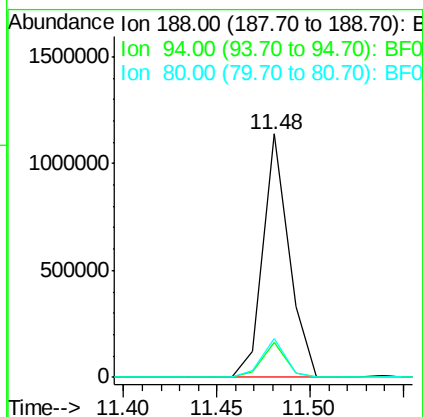
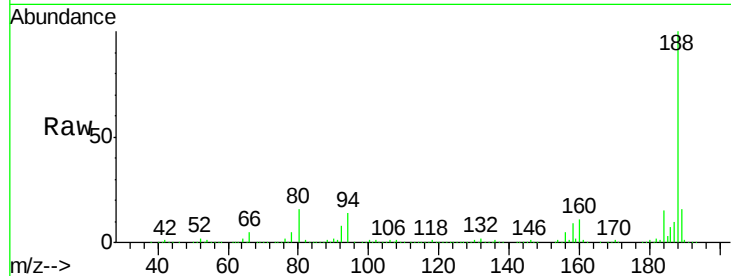
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.48 min Scan# 800  
Delta R.T. 0.00 min  
Lab File: BF090506.D  
Acq: 11 Oct 2016 17:14

Instrument :  
BNA\_F  
ClientSampleId :  
PB93839BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 14.3  | 8.2   | 12.2# |
| 80      | 16.0  | 8.8   | 13.2# |

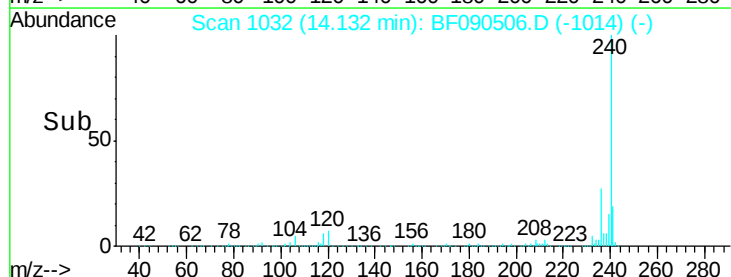
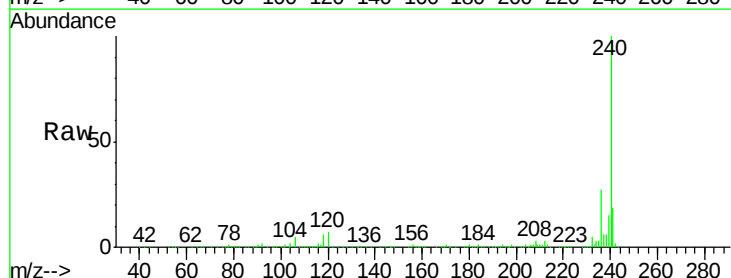
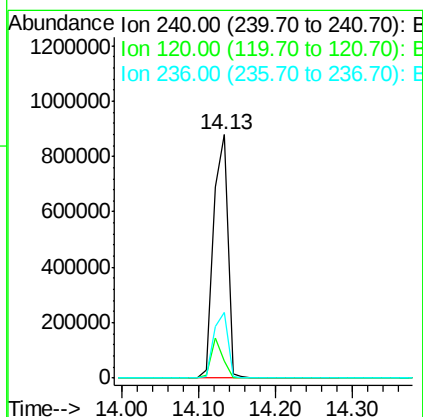
Manual Integrations  
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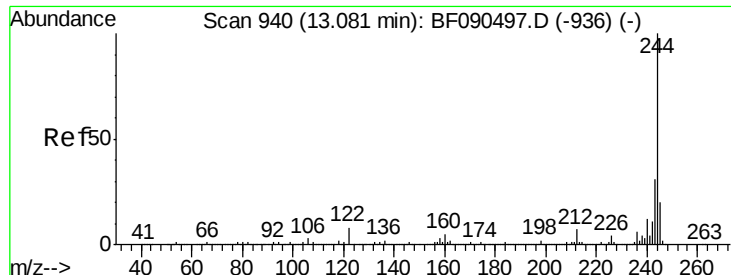
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#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.13 min Scan# 1032  
Delta R.T. 0.00 min  
Lab File: BF090506.D  
Acq: 11 Oct 2016 17:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.0   | 8.6   | 13.0# |
| 236     | 27.2  | 21.6  | 32.4  |





#78

Terphenyl-d14

Concen: 59.42 ng

RT: 13.08 min Scan# 940

Delta R.T. 0.00 min

Lab File: BF090506.D

Acq: 11 Oct 2016 17:14

Instrument :

BNA\_F

ClientSampleId :

PB93839BL

Tot Ion:244 Resp: 2715496

Ion Ratio Lower Upper

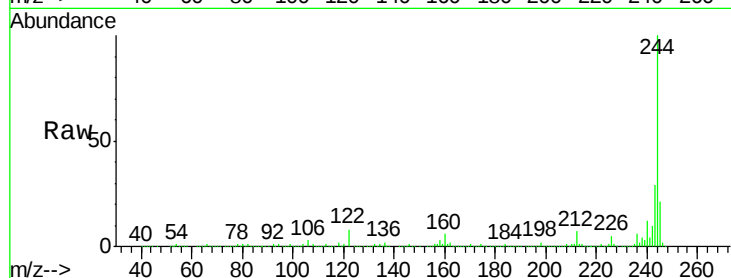
244 100

212 6.8 6.8 10.2

122 8.0 13.3 19.9#

Manual Integrations  
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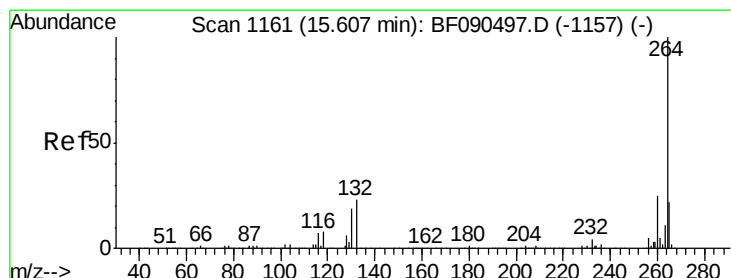
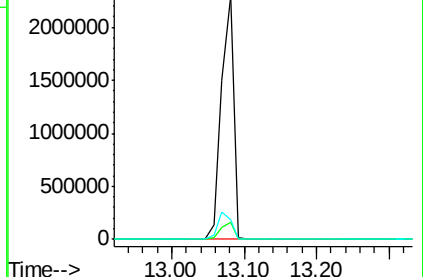
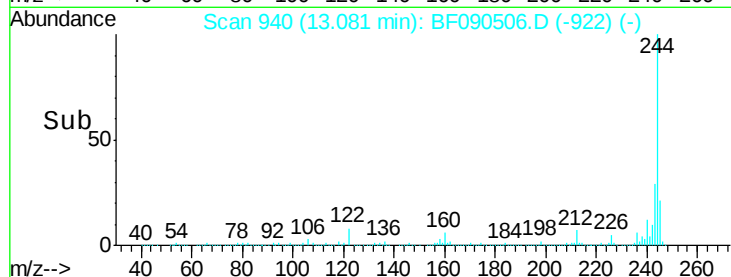
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Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.61 min Scan# 1161

Delta R.T. 0.00 min

Lab File: BF090506.D

Acq: 11 Oct 2016 17:14

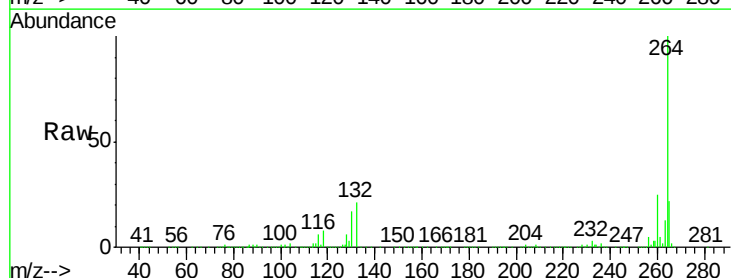
Tgt Ion:264 Resp: 915279

Ion Ratio Lower Upper

264 100

260 25.1 19.3 28.9

265 22.0 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

