

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060816\  
 Data File : BF087836.D  
 Acq On : 9 Jun 2016 6:14  
 Operator : UM/SJ  
 Sample : H3405-08  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP-0.5-11.0

Manual Integrations  
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 6/9/2016 8:01:21 PM

Quant Time: Jun 09 07:50:14 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 07 18:51:55 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.82  | 152  | 106570   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.11  | 136  | 410077   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.87  | 164  | 161329   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.35 | 188  | 247148   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.99 | 240  | 232096   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.42 | 264  | 172891   | 20.00  | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.43  | 112  | 767757   | 123.16 | ng    | 0.00     |
| 7) Phenol-d6                | 6.46  | 99   | 947287   | 125.39 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 588567   | 83.81  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 179220   | 105.21 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 927771   | 90.71  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.94 | 244  | 613824   | 60.18  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 9.59  | 163  | 144415   | 12.36  | ng    | 99       |
| 70) Phenanthrene            | 11.37 | 178  | 61898    | 4.77   | ng    | 98       |
| 74) Fluoranthene            | 12.56 | 202  | 83934    | 6.13   | ng    | 98       |
| 77) Pyrene                  | 12.79 | 202  | 75043    | 4.36   | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.98 | 228  | 34784m   | 2.63   | ng    |          |
| 82) Chrysene                | 14.01 | 228  | 34215m   | 2.75   | ng    |          |
| 87) Benzo(b)fluoranthene    | 15.01 | 252  | 35257m   | 2.93   | ng    |          |
| 89) Benzo(a)pyrene          | 15.35 | 252  | 23325    | 2.39   | ng    | 95       |

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

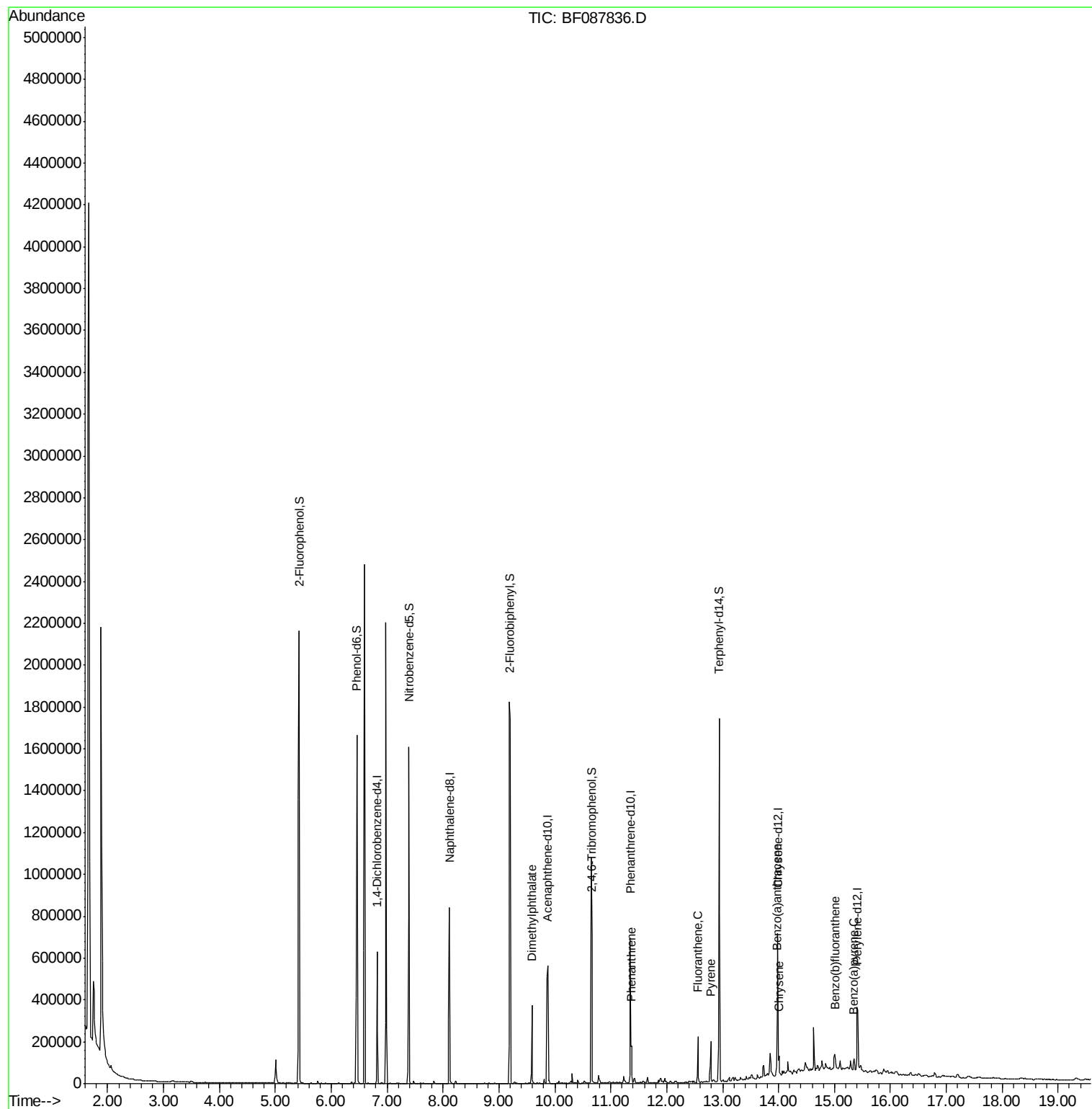
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060816\  
Data File : BF087836.D  
Acq On : 9 Jun 2016 6:14  
Operator : UM/SJ  
Sample : H3405-08  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

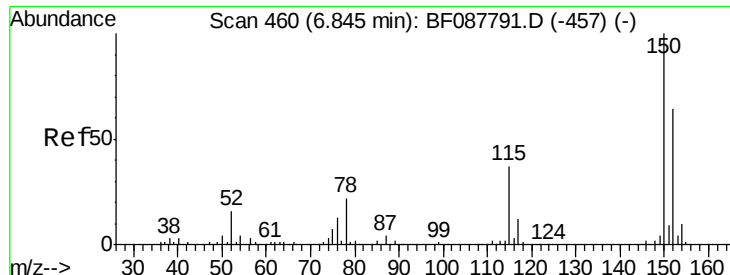
Instrument :  
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SB-06-COMP-0.5-11.0

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
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QLast Update : Tue Jun 07 18:51:55 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 458

Delta R.T. -0.02 min

Lab File: BF087836.D

Acq: 9 Jun 2016 6:14

Instrument :

BNA\_F

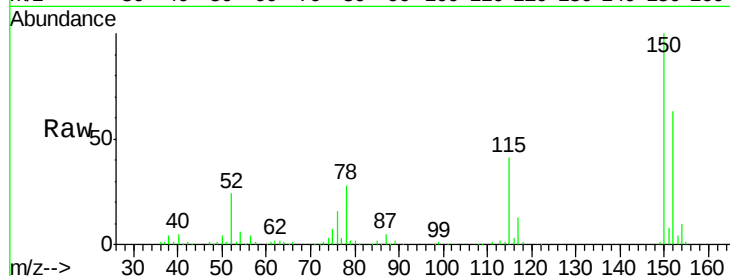
ClientSampleId :

SB-06-COMP-0.5-11.0

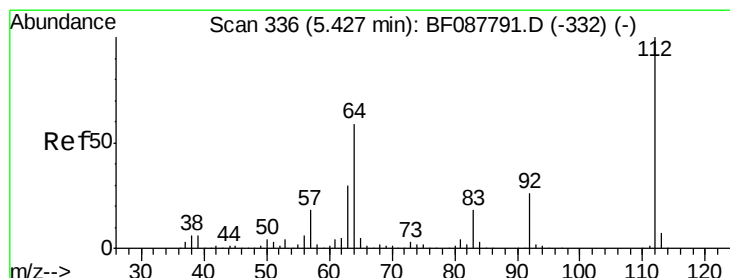
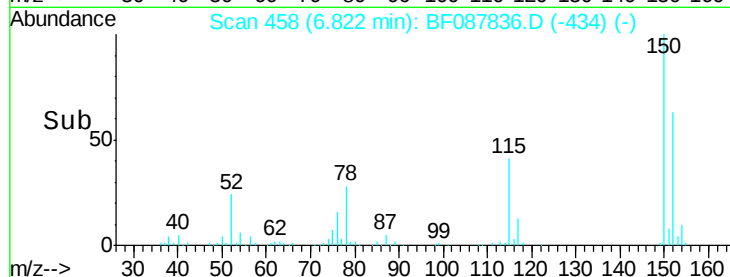
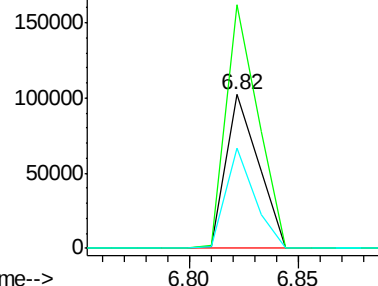
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 106570 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 158.2 | 123.8 | 185.6  |
| 115       | 65.1  | 39.6  | 59.4   |

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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: 123.16 ng

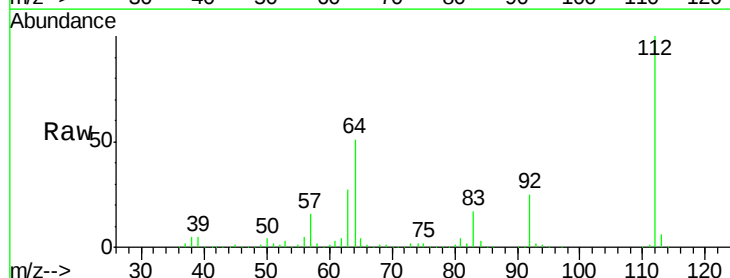
RT: 5.43 min Scan# 336

Delta R.T. 0.00 min

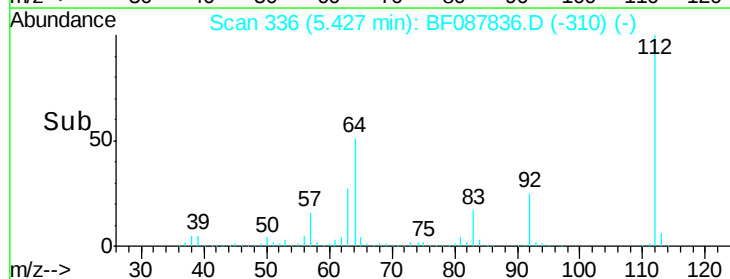
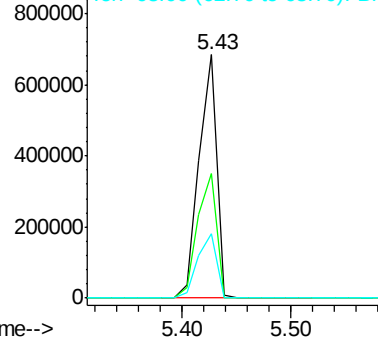
Lab File: BF087836.D

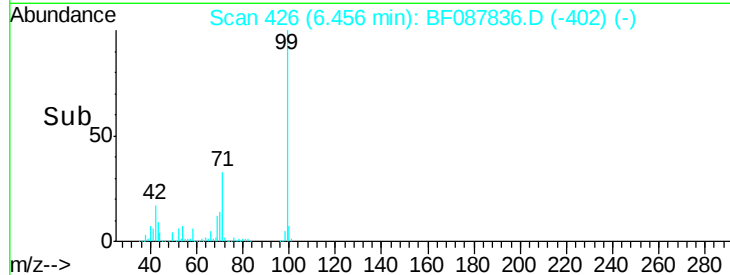
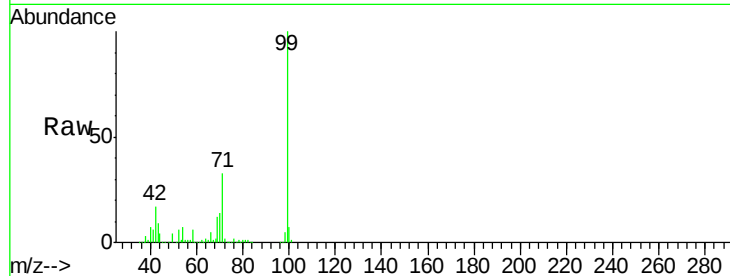
Acq: 9 Jun 2016 6:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 767757 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 51.1  | 42.2  | 63.2   |
| 63        | 26.7  | 21.8  | 32.8   |



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: 125.39 ng

RT: 6.46 min Scan# 426

Delta R.T. -0.02 min

Lab File: BF087836.D

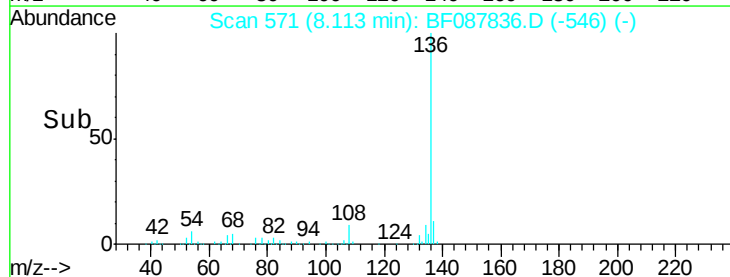
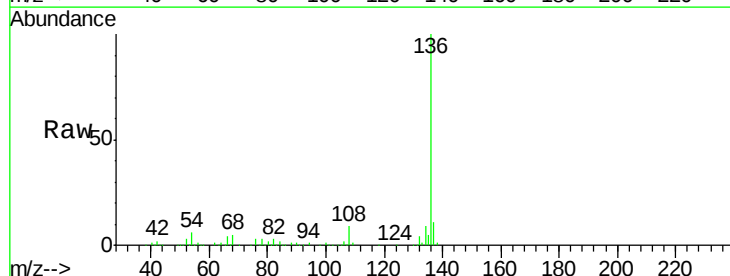
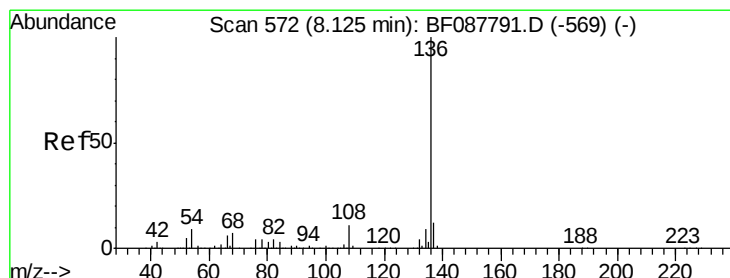
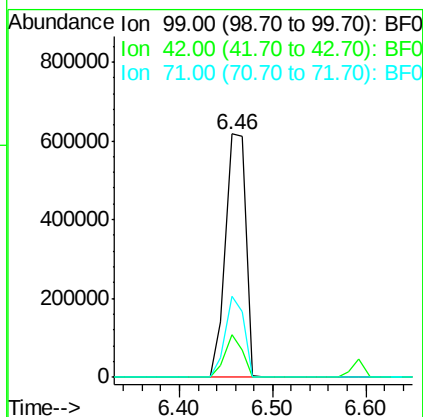
Acq: 9 Jun 2016 6:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 947287 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.5  | 12.2  | 18.2   |
| 71        | 33.3  | 23.4  | 35.0   |

Instrument :  
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#21

Naphthalene-d8

Concen: 20.00 ng

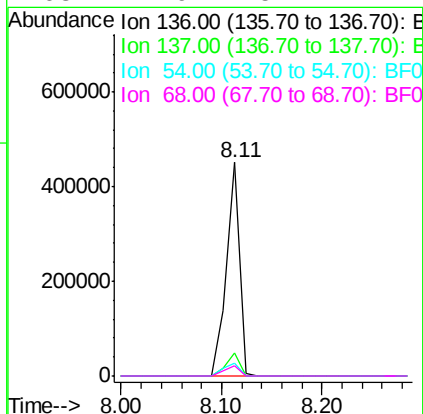
RT: 8.11 min Scan# 571

Delta R.T. -0.01 min

Lab File: BF087836.D

Acq: 9 Jun 2016 6:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 410077 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.9  | 9.1   | 13.7   |
| 54        | 5.8   | 6.6   | 10.0#  |
| 68        | 4.9   | 5.1   | 7.7#   |





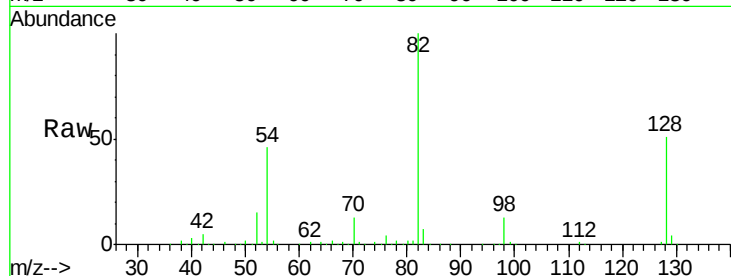
#23  
 Nitrobenzene-d5  
 Concen: 83.81 ng  
 RT: 7.39 min Scan# 508  
 Delta R.T. -0.02 min  
 Lab File: BF087836.D  
 Acq: 9 Jun 2016 6:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP-0.5-11.0

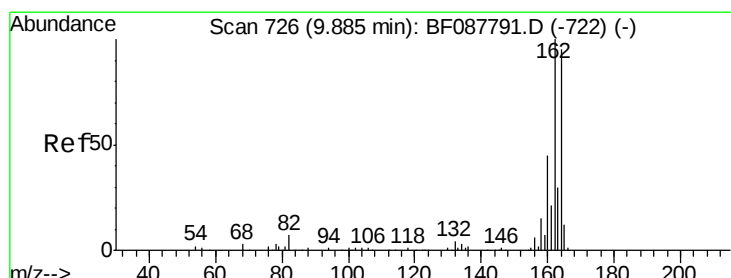
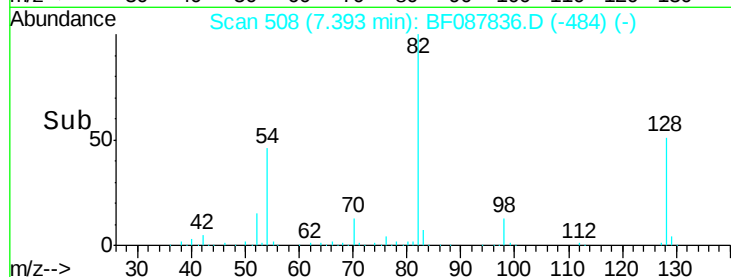
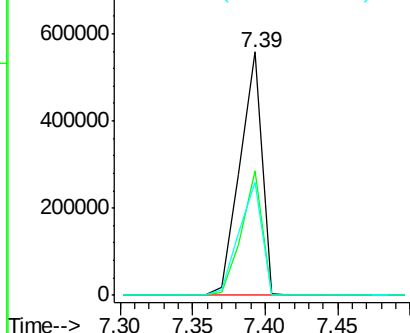
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 51.1  | 35.9 | 53.9  |       |
| 54      | 46.4  | 40.9 | 61.3  |       |

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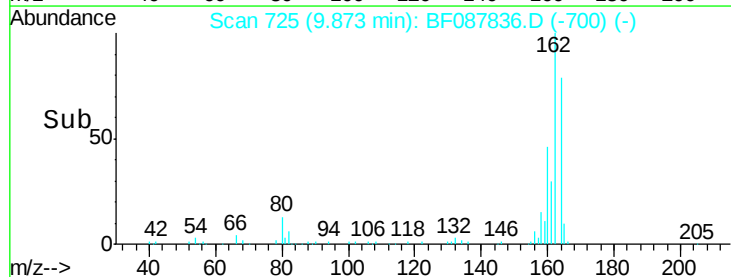
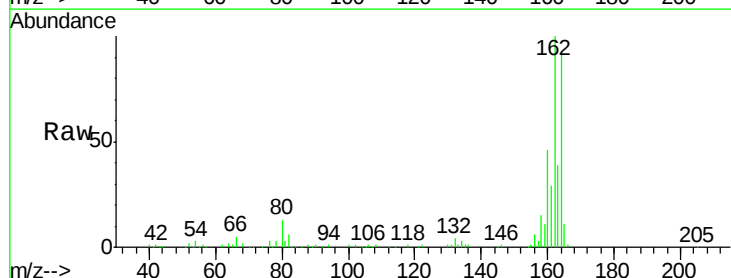
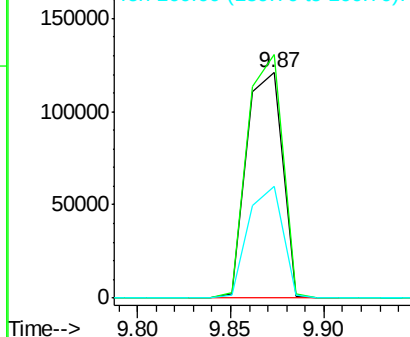
Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.87 min Scan# 725  
 Delta R.T. -0.01 min  
 Lab File: BF087836.D  
 Acq: 9 Jun 2016 6:14

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 108.1 | 85.4 | 128.2 |       |
| 160     | 49.8  | 39.5 | 59.3  |       |

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





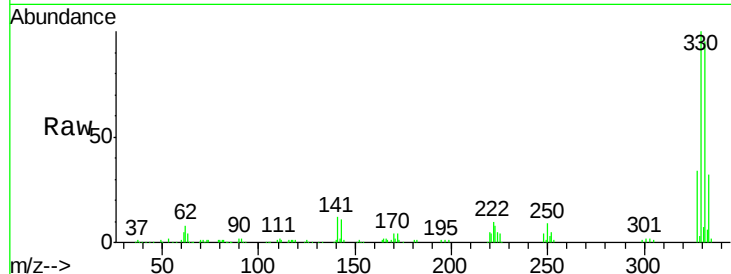
#41  
 2,4,6-Tribromophenol  
 Concen: 105.21 ng  
 RT: 10.66 min Scan# 794  
 Delta R.T. -0.01 min  
 Lab File: BF087836.D  
 Acq: 9 Jun 2016 6:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP-0.5-11.0

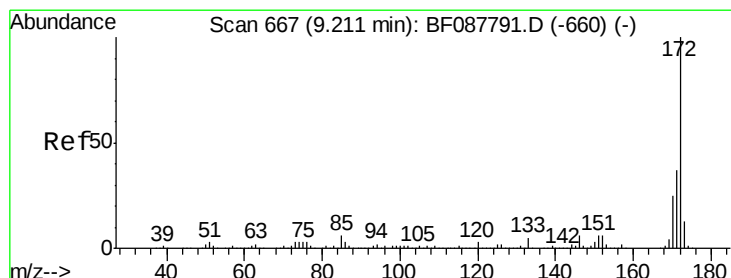
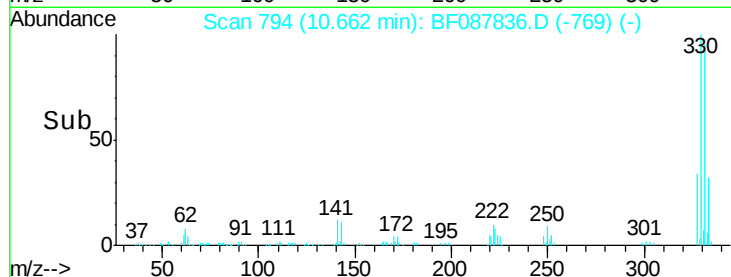
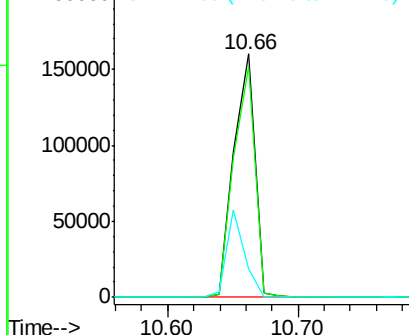
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 330     | 100   |            |       |
| 332     | 95.5  | 0.0        | 0.0#  |
| 141     | 30.7  | 0.0        | 0.0#  |

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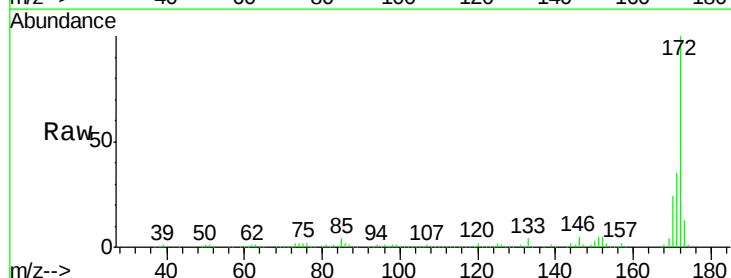


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

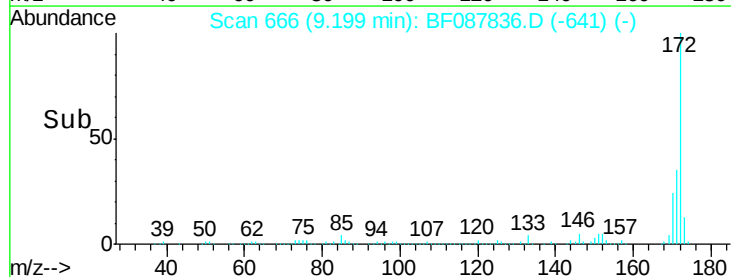
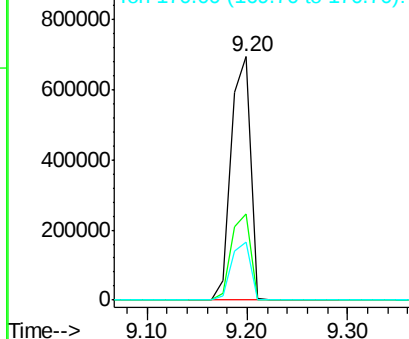


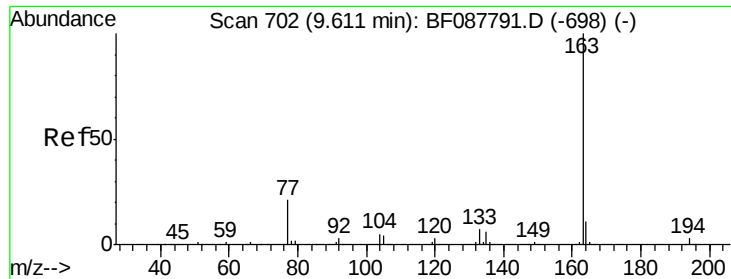
#44  
 2-Fluorobiphenyl  
 Concen: 90.71 ng  
 RT: 9.20 min Scan# 666  
 Delta R.T. -0.01 min  
 Lab File: BF087836.D  
 Acq: 9 Jun 2016 6:14

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.5  | 28.6       | 43.0  |
| 170     | 24.1  | 19.2       | 28.8  |



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





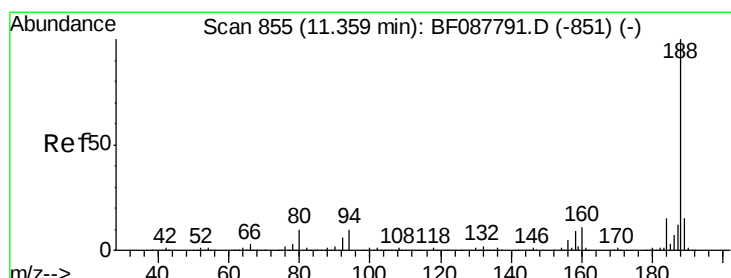
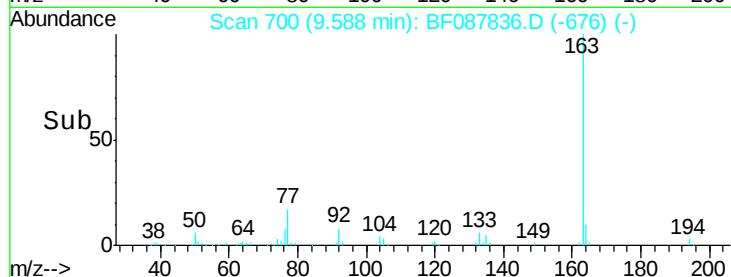
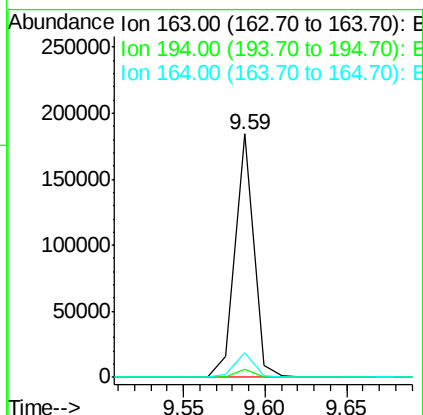
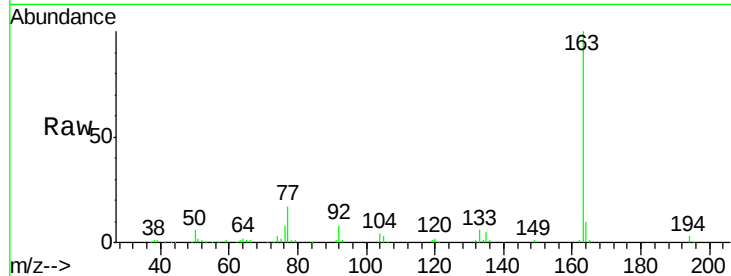
#49  
Dimethylphthalate  
Concen: 12.36 ng  
RT: 9.59 min Scan# 700  
Delta R.T. -0.02 min  
Lab File: BF087836.D  
Acq: 9 Jun 2016 6:14

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP-0.5-11.0

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 3.3   | 2.8        | 4.2   |
| 164     | 10.1  | 8.3        | 12.5  |

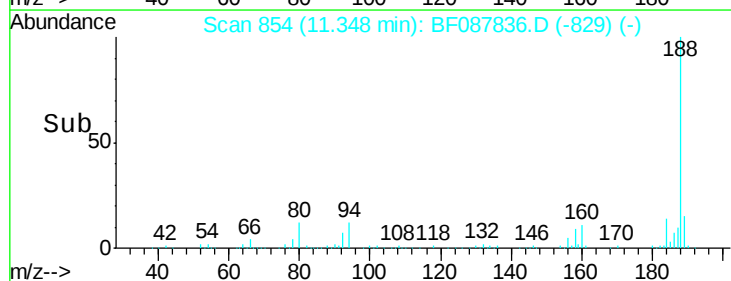
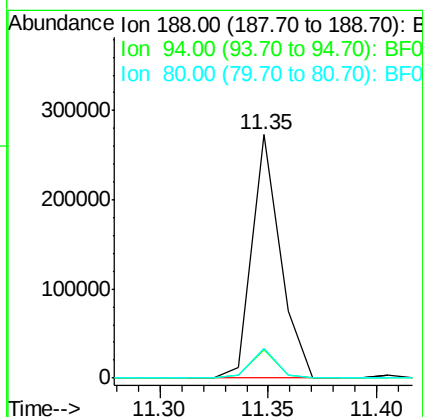
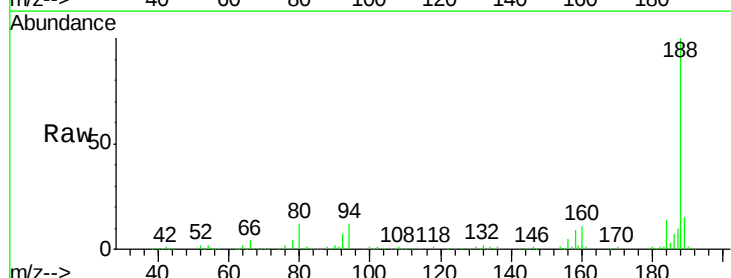
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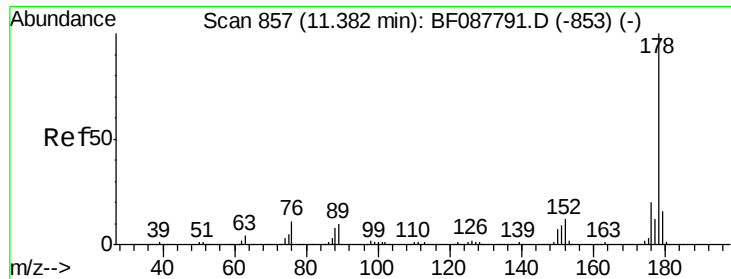
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.35 min Scan# 854  
Delta R.T. -0.01 min  
Lab File: BF087836.D  
Acq: 9 Jun 2016 6:14

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 11.6  | 9.0        | 13.6  |
| 80      | 12.5  | 10.0       | 15.0  |





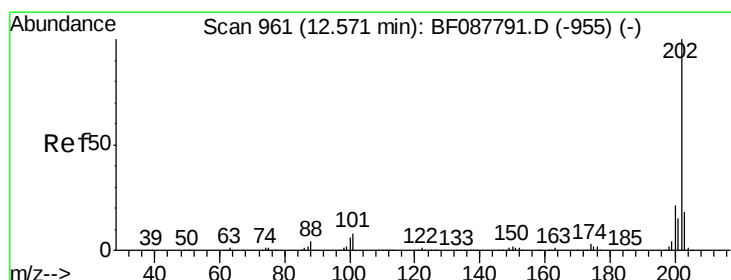
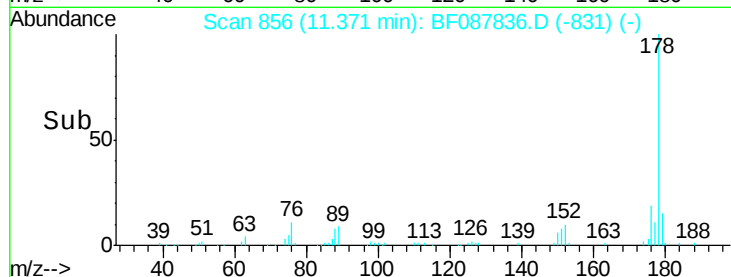
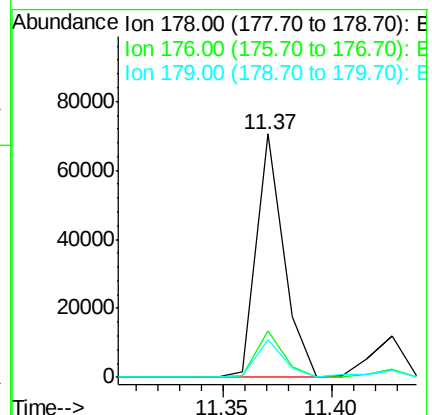
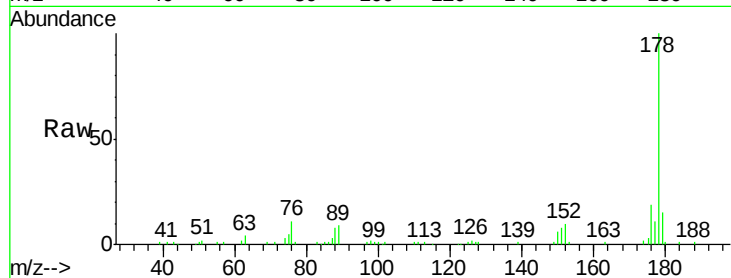
#70  
Phenanthrene  
Concen: 4.77 ng  
RT: 11.37 min Scan# 856  
Delta R.T. -0.01 min  
Lab File: BF087836.D  
Acq: 9 Jun 2016 6:14

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP-0.5-11.0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.8  | 23.6  |
| 179     | 15.5  | 13.0  | 19.4  |

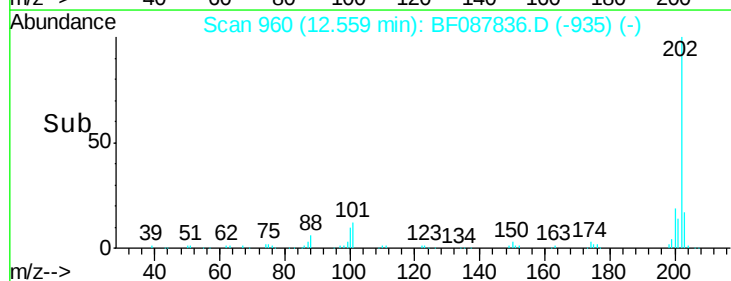
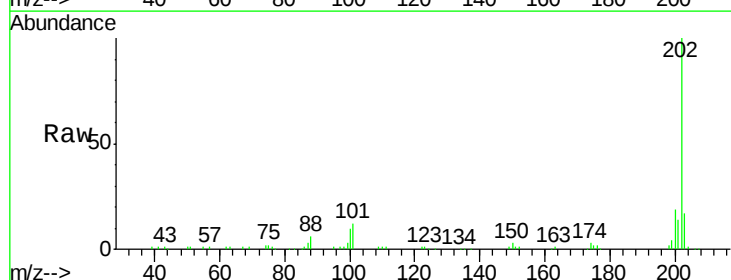
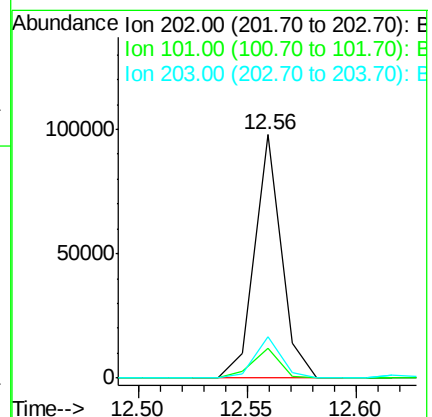
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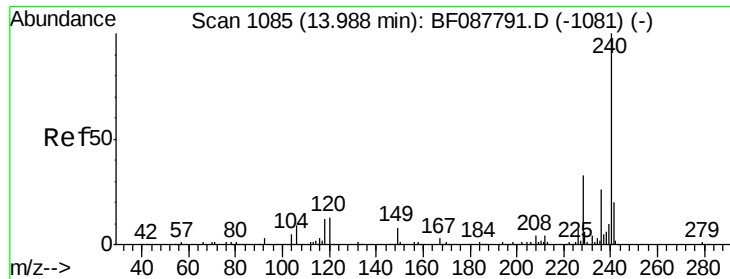
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#74  
Fluoranthene  
Concen: 6.13 ng  
RT: 12.56 min Scan# 960  
Delta R.T. -0.01 min  
Lab File: BF087836.D  
Acq: 9 Jun 2016 6:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.1  | 0.0   | 33.1  |
| 203     | 17.0  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.99 min Scan# 1085

Delta R.T. -0.00 min

Lab File: BF087836.D

Acq: 9 Jun 2016 6:14

Instrument :

BNA\_F

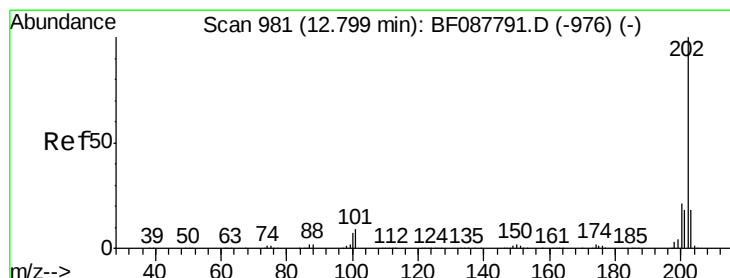
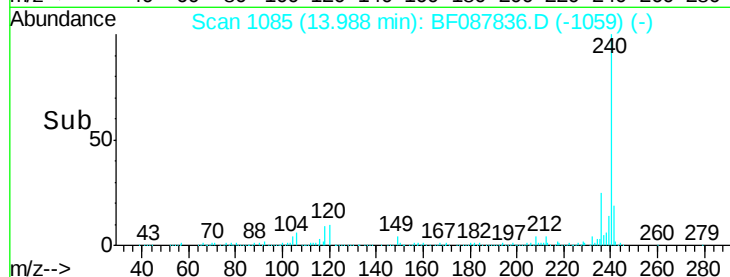
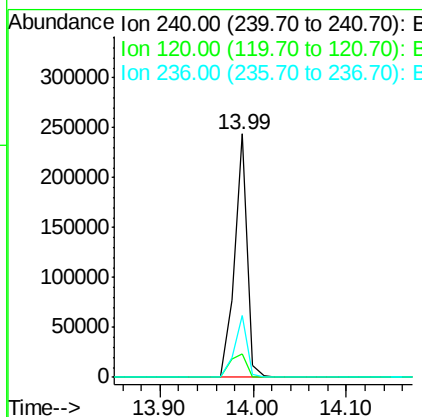
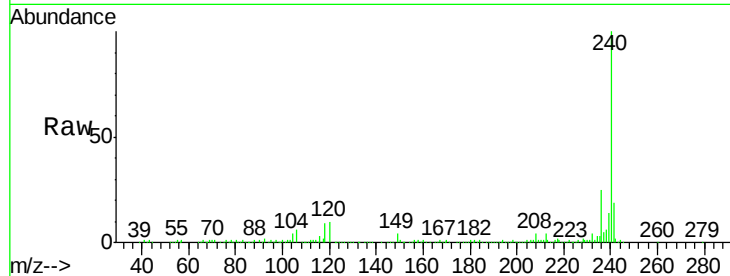
ClientSampleId :

SB-06-COMP-0.5-11.0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 232096 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 9.8   | 6.8   | 10.2   |
| 236       | 25.4  | 20.2  | 30.2   |

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#77

Pyrene

Concen: 4.36 ng

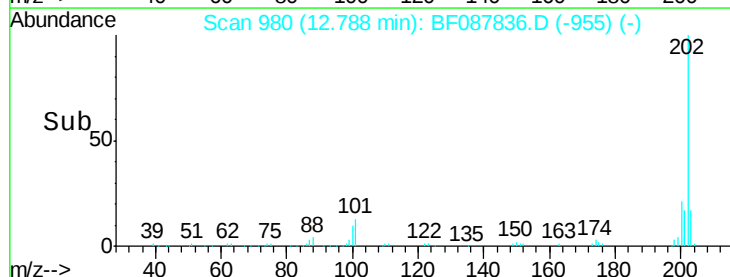
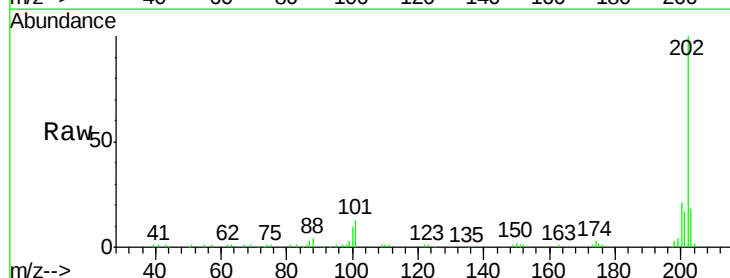
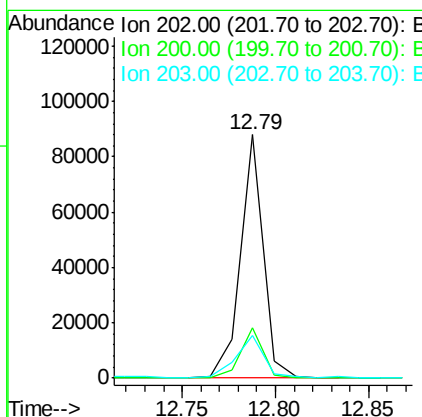
RT: 12.79 min Scan# 980

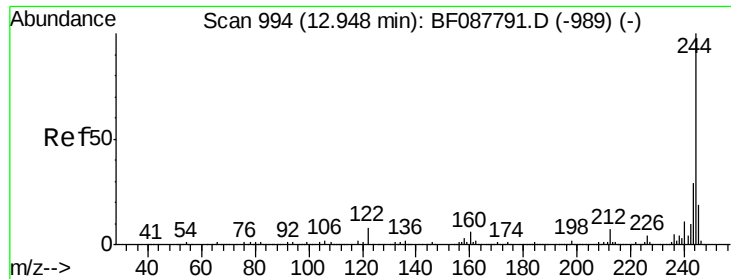
Delta R.T. -0.01 min

Lab File: BF087836.D

Acq: 9 Jun 2016 6:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 75043 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.7  | 17.4  | 26.2  |
| 203       | 17.6  | 14.5  | 21.7  |





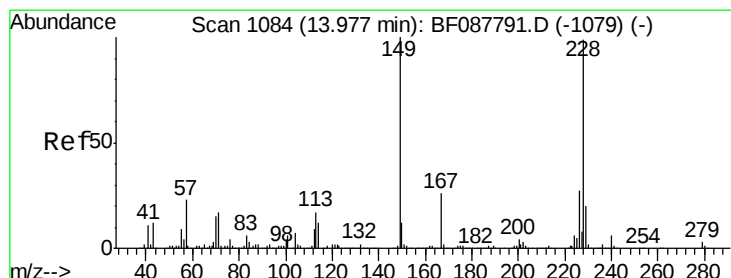
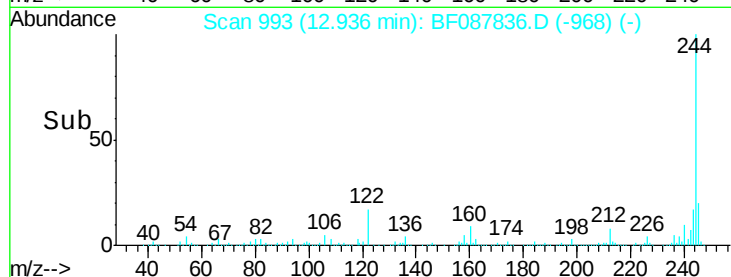
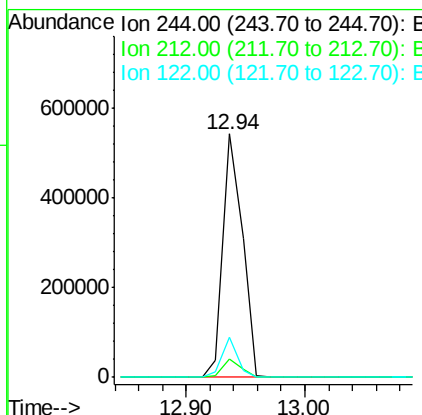
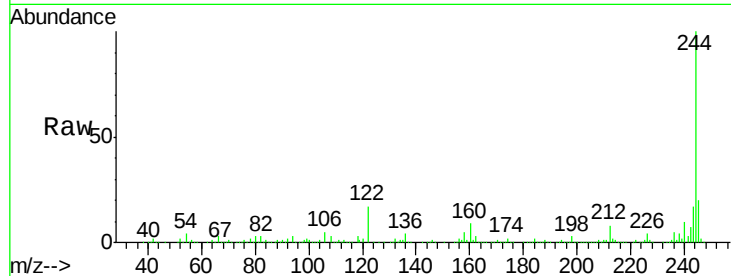
#78  
 Terphenyl-d14  
 Concen: 60.18 ng  
 RT: 12.94 min Scan# 993  
 Delta R.T. -0.01 min  
 Lab File: BF087836.D  
 Acq: 9 Jun 2016 6:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP-0.5-11.0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.5   | 6.0   | 9.0   |
| 122     | 16.7  | 11.2  | 16.8  |

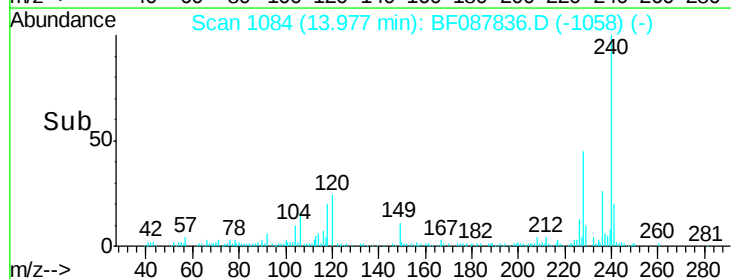
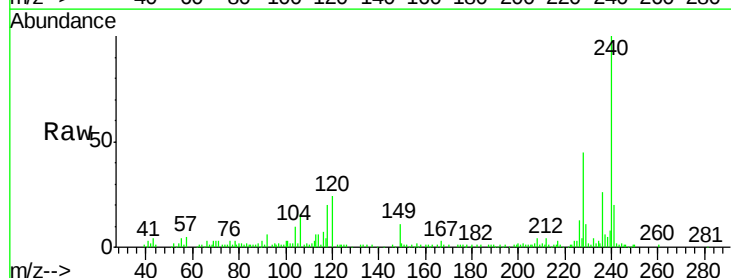
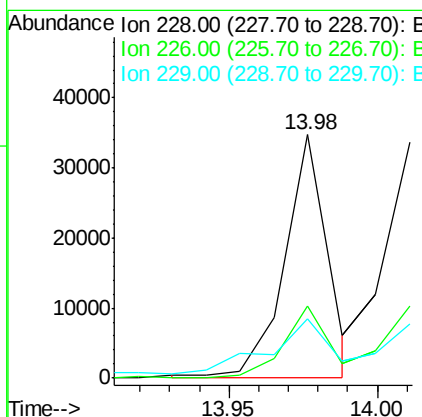
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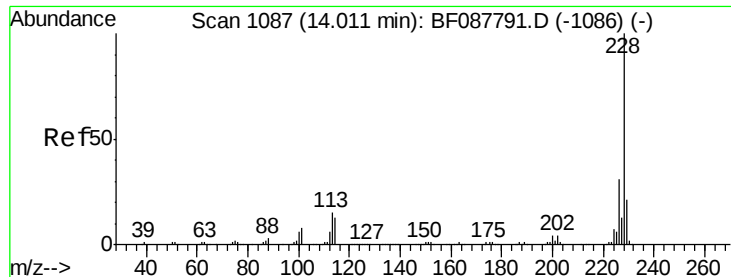
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#80  
 Benzo(a)anthracene  
 Concen: 2.63 ng m  
 RT: 13.98 min Scan# 1084  
 Delta R.T. -0.00 min  
 Lab File: BF087836.D  
 Acq: 9 Jun 2016 6:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.5  | 22.3  | 33.5  |
| 229     | 24.2  | 16.0  | 24.0  |





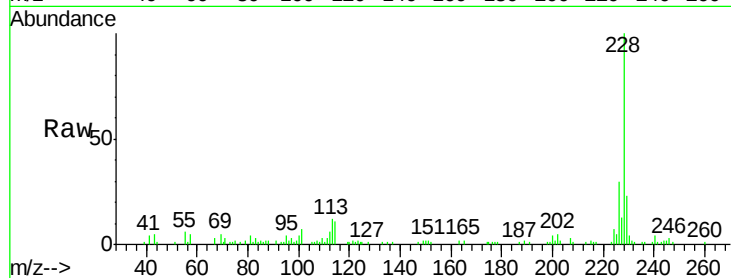
#82  
Chrysene  
Concen: 2.75 ng/ml  
RT: 14.01 min Scan# 1087  
Delta R.T. -0.00 min  
Lab File: BF087836.D  
Acq: 9 Jun 2016 6:14

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP-0.5-11.0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 25.4  | 38.2  |
| 229     | 22.9  | 16.3  | 24.5  |

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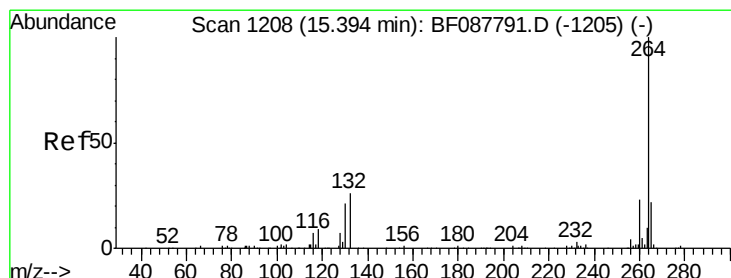
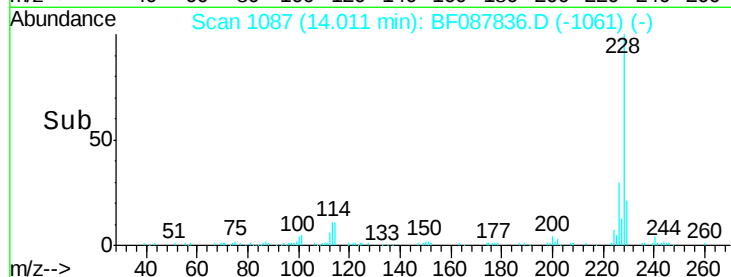
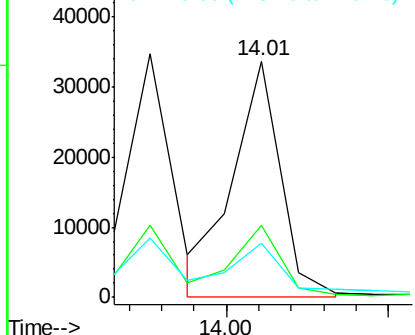


Abundance

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  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.42 min Scan# 1210  
Delta R.T. 0.02 min  
Lab File: BF087836.D  
Acq: 9 Jun 2016 6:14

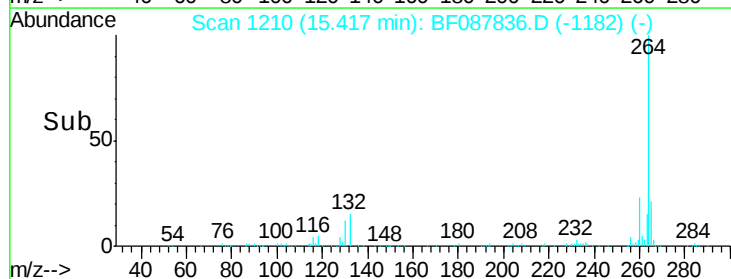
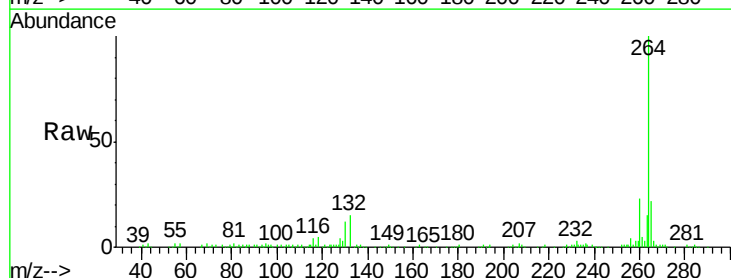
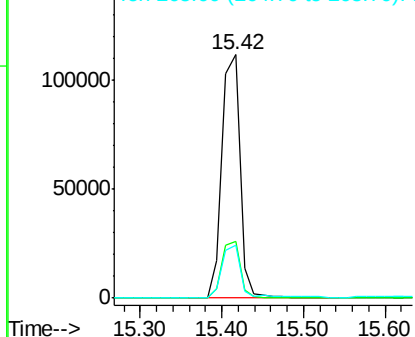
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 21.7  | 16.9  | 25.3  |

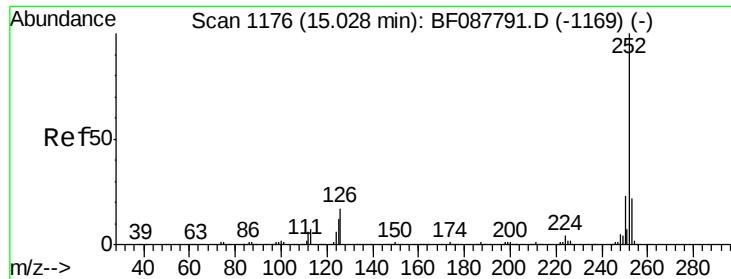
Abundance

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: 2.93 ng

RT: 15.01 min Scan# 1174

Delta R.T. 0.01 min

Lab File: BF087836.D

Acq: 9 Jun 2016 6:14

Instrument :

BNA\_F

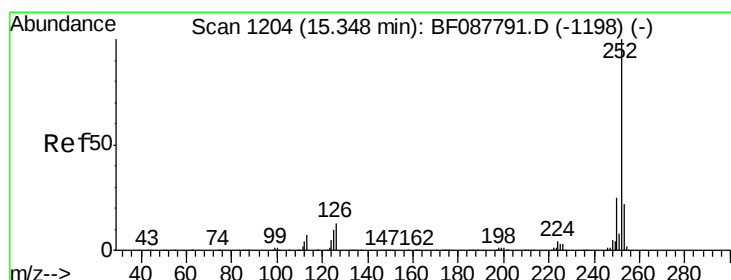
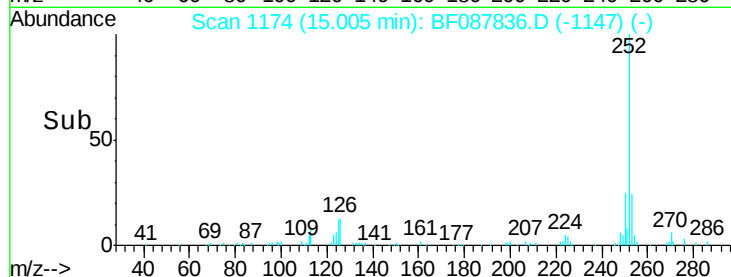
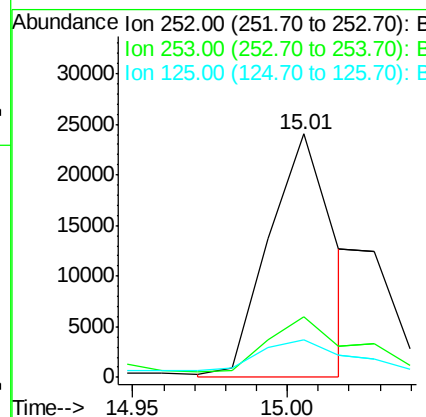
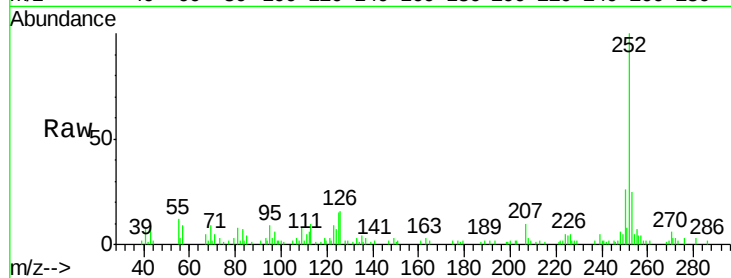
ClientSampleId :

SB-06-COMP-0.5-11.0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 35257 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.1  | 17.4  | 26.2  |
| 125       | 15.4  | 7.1   | 10.7# |

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#89

Benzo(a)pyrene

Concen: 2.39 ng

RT: 15.35 min Scan# 1204

Delta R.T. -0.00 min

Lab File: BF087836.D

Acq: 9 Jun 2016 6:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 23325 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.1  | 17.9  | 26.9  |
| 125       | 15.1  | 12.5  | 18.7  |

