

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\  
 Data File : BF096839.D  
 Acq On : 18 Jul 2017 11:11  
 Operator : SJ/JU  
 Sample : I4205-02  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB-TWP07

Manual Integrations  
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 7/19/2017 2:31:11 PM

Quant Time: Jul 18 13:50:14 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 18 13:33:22 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.60  | 152  | 110119   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.88  | 136  | 456692   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.63  | 164  | 223266   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.10 | 188  | 385949   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.73 | 240  | 329763   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.10 | 264  | 223150   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.20  | 112  | 168801   | 23.05  | ng    | 0.00     |
| 7) Phenol-d6                | 6.24  | 99   | 224669   | 25.56  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.16  | 82   | 505816   | 68.60  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.42 | 330  | 112045   | 58.79  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 8.96  | 172  | 955977   | 67.65  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.69 | 244  | 875406   | 46.04  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 7.90  | 128  | 67430    | 3.117  | ng    | # 93     |
| 49) Dimethylphthalate       | 9.35  | 163  | 182751   | 10.871 | ng    | # 98     |
| 51) Acenaphthene            | 9.66  | 154  | 51583    | 3.887  | ng    | 97       |
| 57) Fluorene                | 10.17 | 166  | 94387    | 6.868  | ng    | # 95     |

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

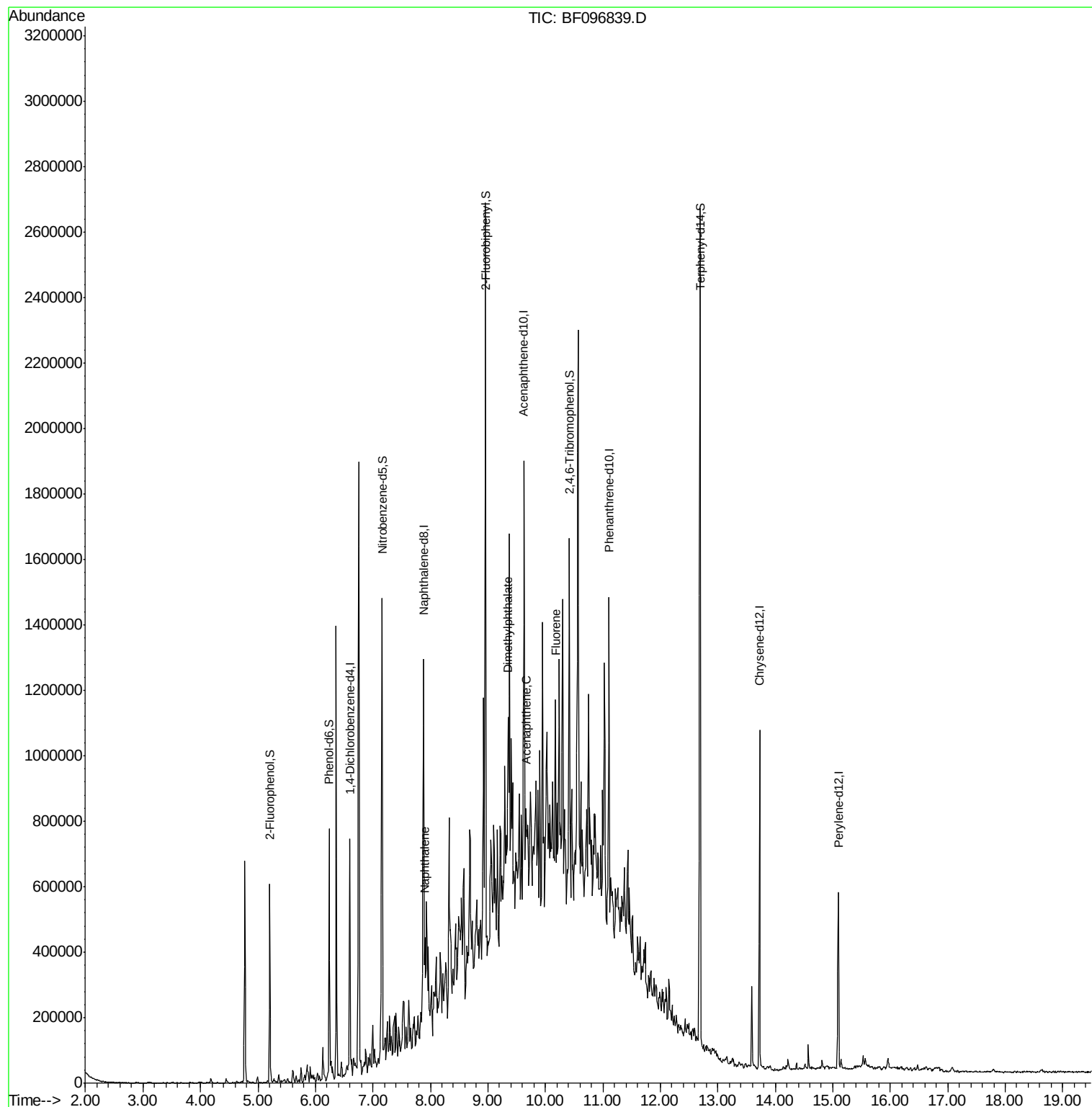
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\  
Data File : BF096839.D  
Acq On : 18 Jul 2017 11:11  
Operator : SJ/JU  
Sample : I4205-02  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

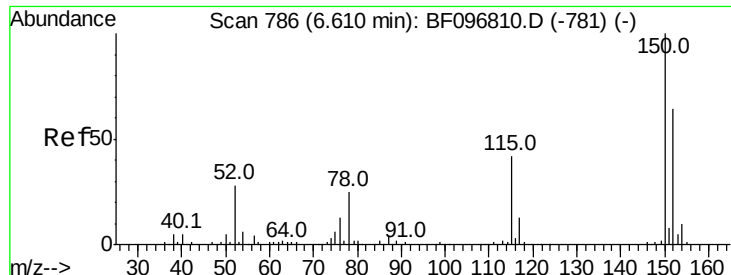
Instrument :  
BNA\_F  
ClientSampleId :  
NB-TWP07

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Quant Time: Jul 18 13:50:14 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 18 13:33:22 2017  
Response via : Initial Calibration





#1

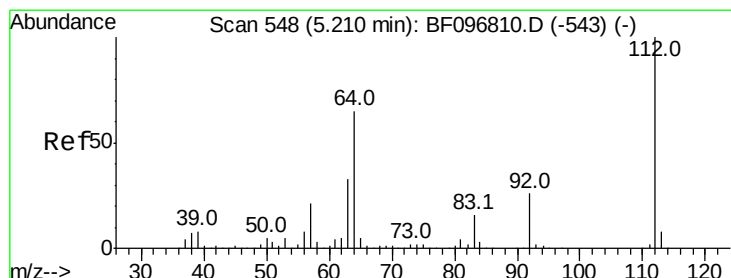
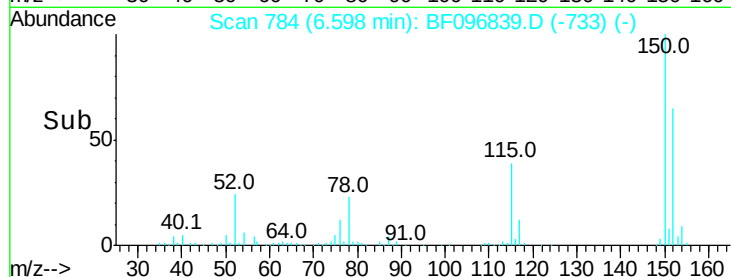
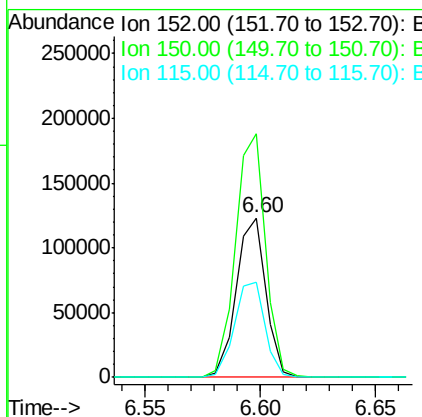
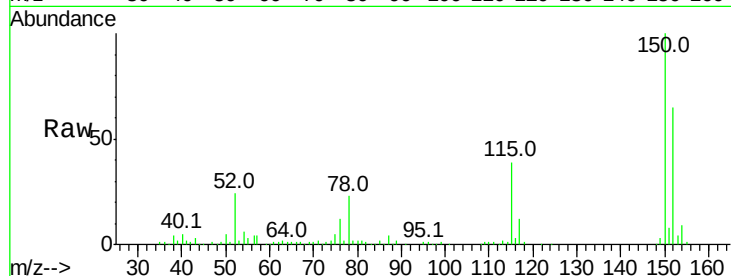
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.60 min Scan# 784  
Delta R.T. 0.00 min  
Lab File: BF096839.D  
Acq: 18 Jul 2017 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
NB-TWP07

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.0 | 126.2 | 189.2 |
| 115     | 59.4  | 52.2  | 78.2  |

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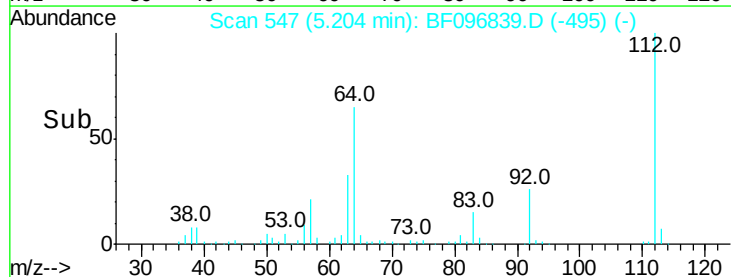
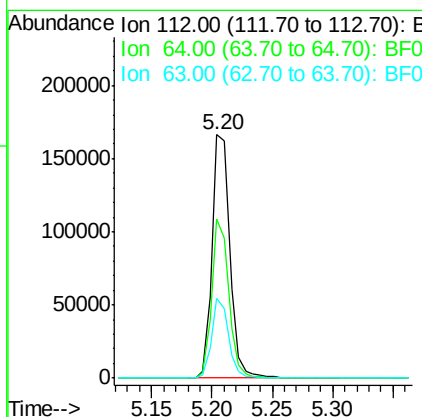
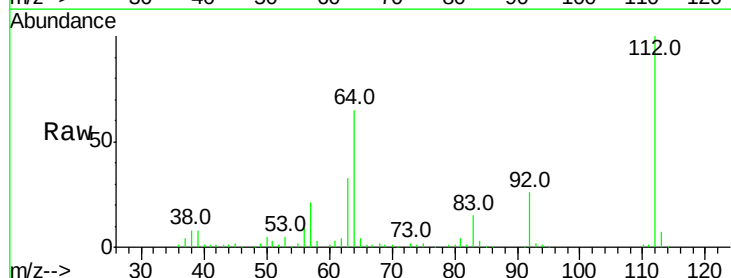
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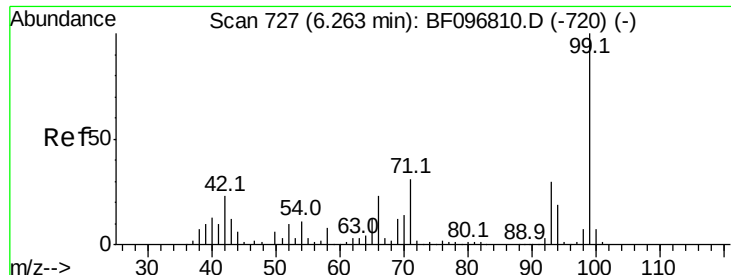


#5

2-Fluorophenol  
Concen: 23.048 ng  
RT: 5.20 min Scan# 547  
Delta R.T. 0.01 min  
Lab File: BF096839.D  
Acq: 18 Jul 2017 11:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.1  | 46.0  | 69.0  |
| 63      | 32.8  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 25.563 ng

RT: 6.24 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF096839.D

Acq: 18 Jul 2017 11:11

Instrument :

BNA\_F

ClientSampleId :

NB-TWP07

Tot Ion: 99 Resp: 224669

Ion Ratio Lower Upper

99 100

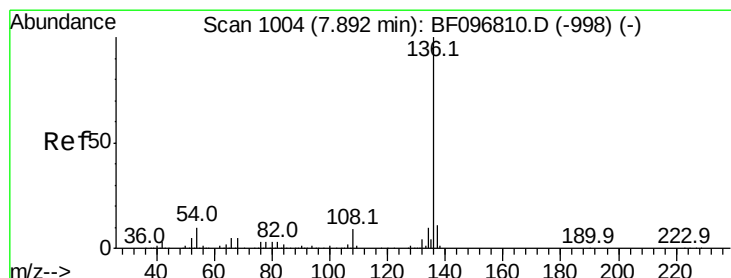
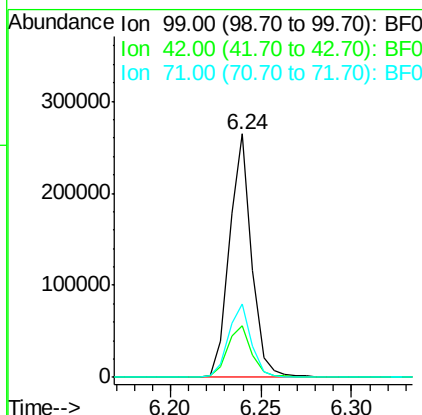
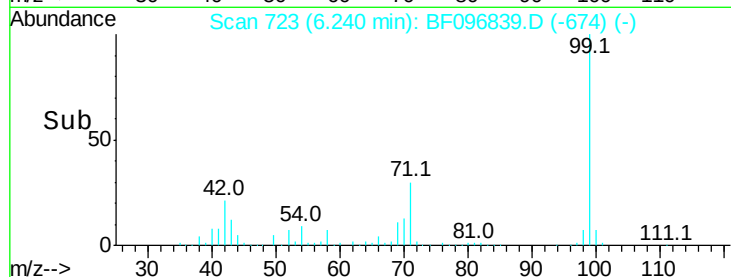
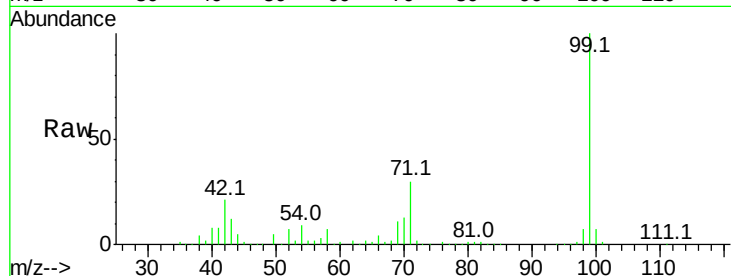
42 21.3 13.5 20.3#

71 30.1 24.5 36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.88 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF096839.D

Acq: 18 Jul 2017 11:11

Tgt Ion: 136 Resp: 456692

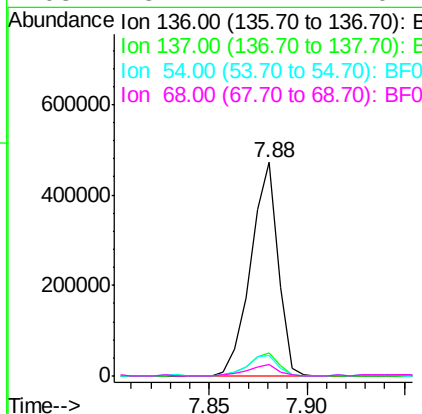
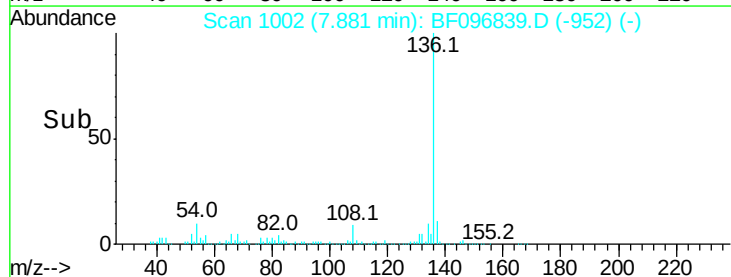
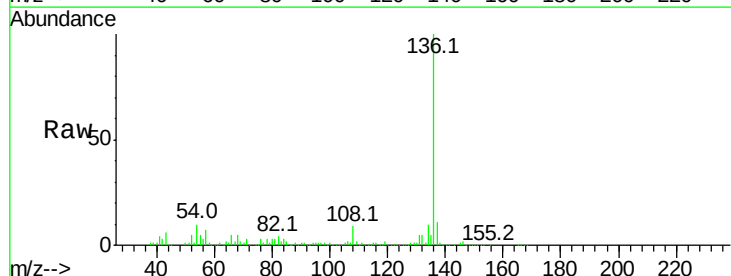
Ion Ratio Lower Upper

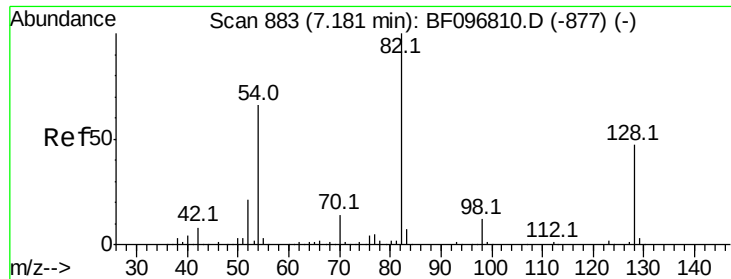
136 100

137 11.0 8.5 12.7

54 9.8 4.9 7.3#

68 5.1 4.1 6.1





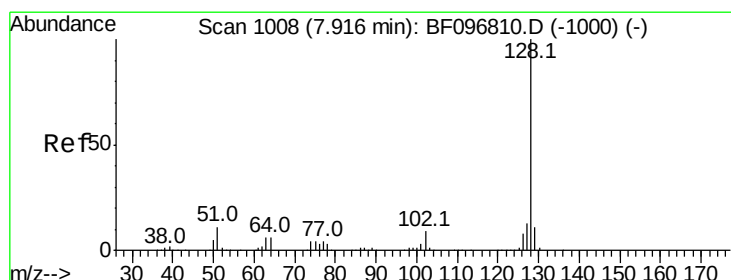
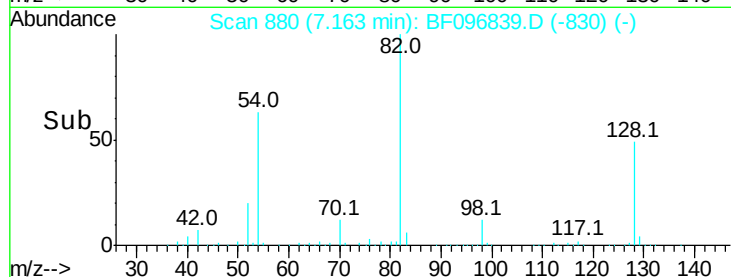
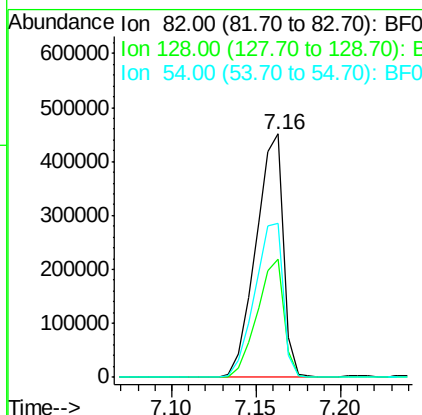
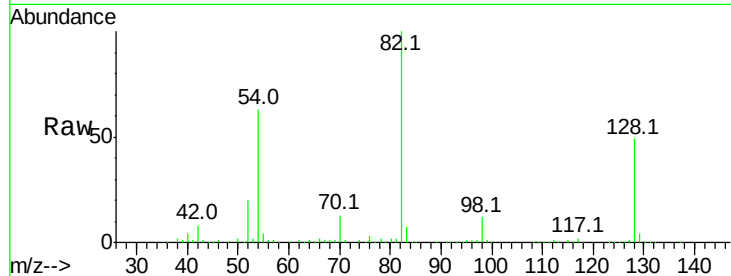
#23  
Nitrobenzene-d5  
Concen: 68.603 ng  
RT: 7.16 min Scan# 880  
Delta R.T. -0.01 min  
Lab File: BF096839.D  
Acq: 18 Jul 2017 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
NB-TWP07

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 48.7  | 34.0       | 51.0  |
| 54      | 63.1  | 42.2       | 63.2  |

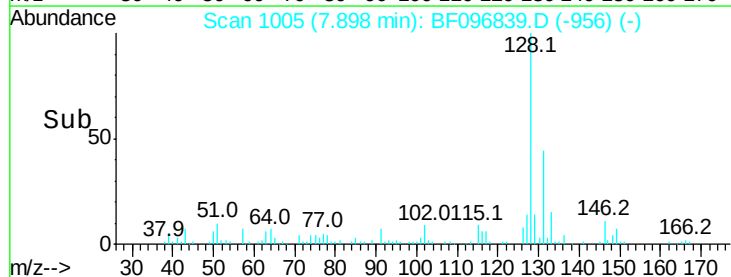
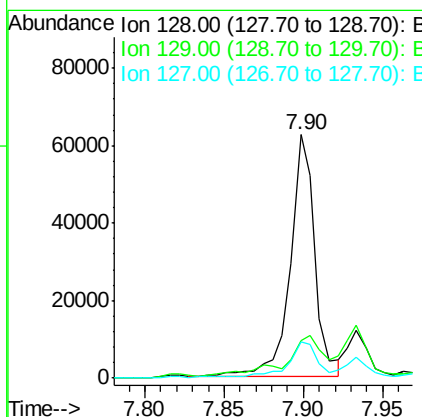
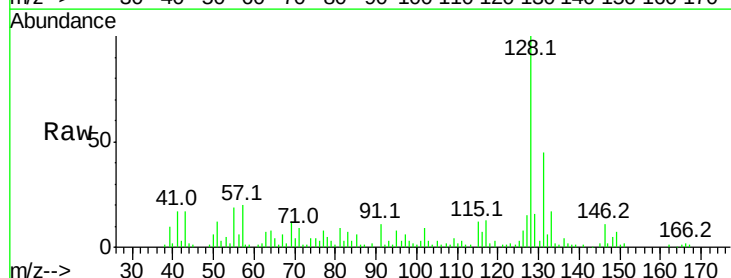
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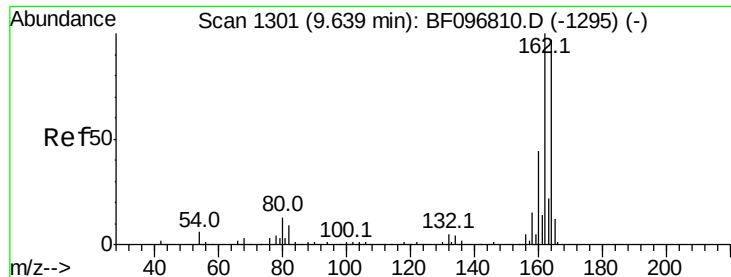
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#31  
Naphthalene  
Concen: 3.117 ng  
RT: 7.90 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: BF096839.D  
Acq: 18 Jul 2017 11:11

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 128     | 100   |            |       |
| 129     | 15.5  | 9.0        | 13.6# |
| 127     | 14.6  | 10.8       | 16.2  |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.63 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF096839.D

Acq: 18 Jul 2017 11:11

Instrument :

BNA\_F

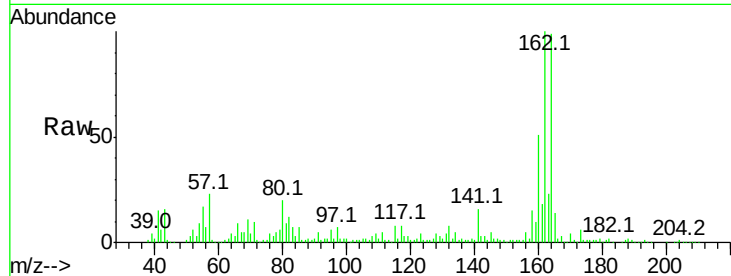
ClientSampleId :

NB-TWP07

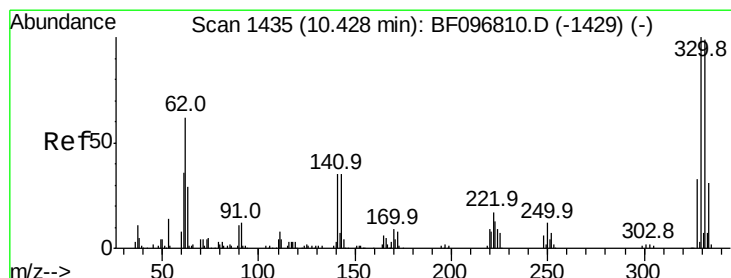
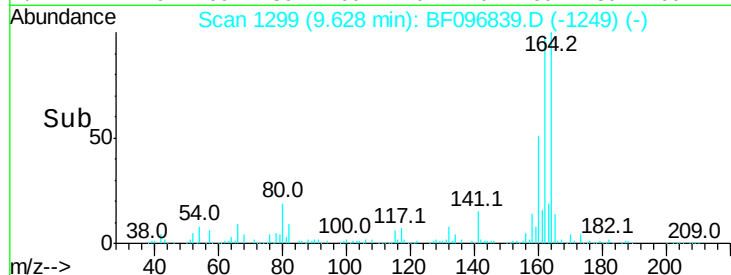
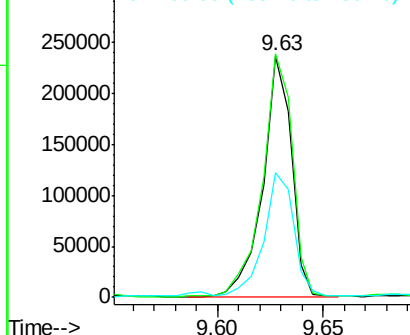
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 164   | Resp: | 223266 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 100.8 | 82.6  | 123.8  |
| 160      | 51.3  | 36.2  | 54.2   |

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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: 58.793 ng

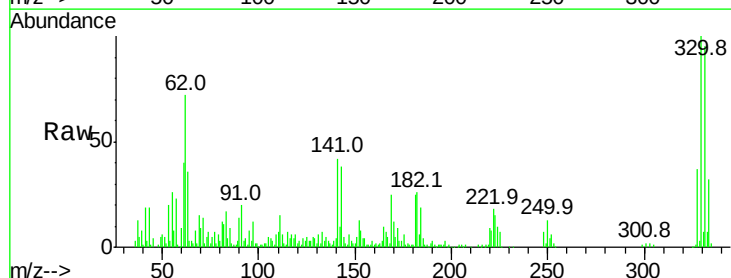
RT: 10.42 min Scan# 1433

Delta R.T. -0.01 min

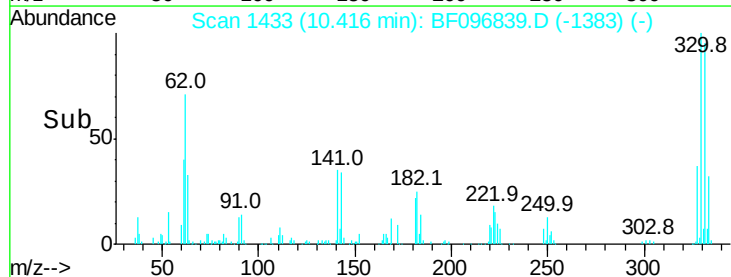
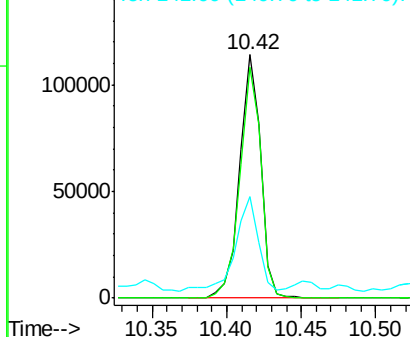
Lab File: BF096839.D

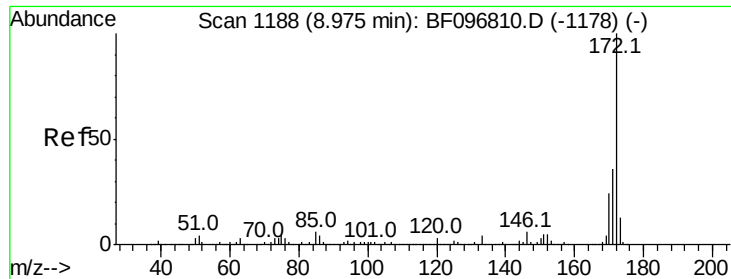
Acq: 18 Jul 2017 11:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 330   | Resp: | 112045 |
| Ion      | Ratio | Lower | Upper  |
| 330      | 100   |       |        |
| 332      | 95.3  | 76.6  | 115.0  |
| 141      | 42.6  | 31.4  | 47.2   |



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





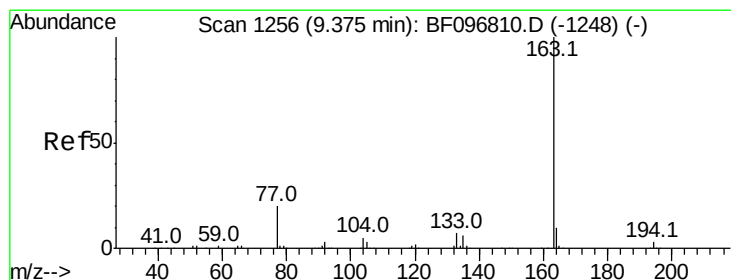
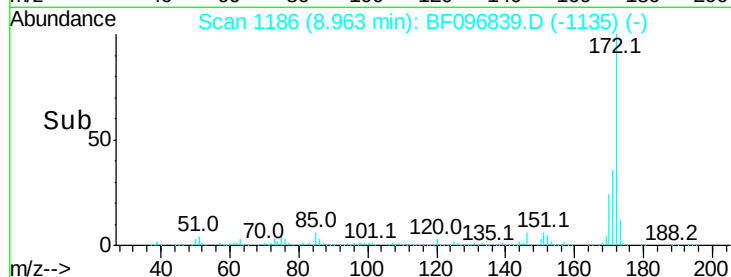
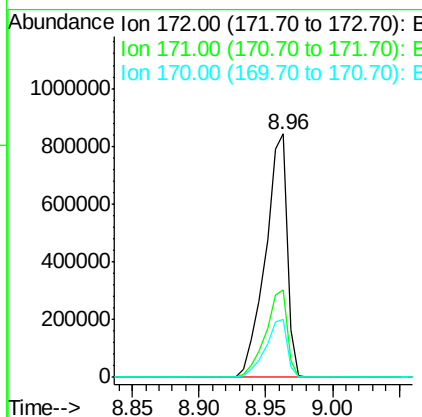
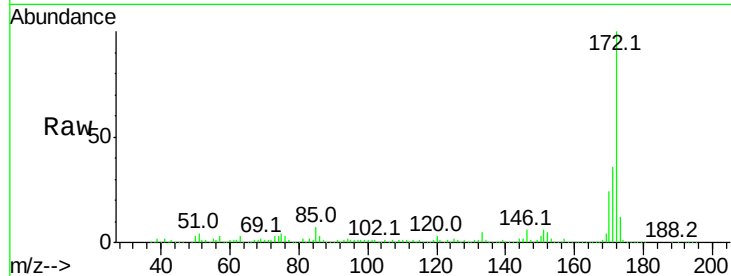
#44  
2-Fluorobiphenyl  
Concen: 67.649 ng  
RT: 8.96 min Scan# 1186  
Delta R.T. 0.00 min  
Lab File: BF096839.D  
Acq: 18 Jul 2017 11:11

Instrument :  
BNA\_F  
ClientSampleId :  
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| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 35.7  | 29.6 | 44.4  |       |
| 170     | 23.8  | 19.8 | 29.8  |       |

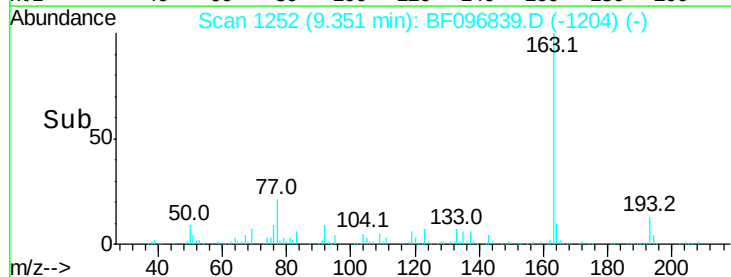
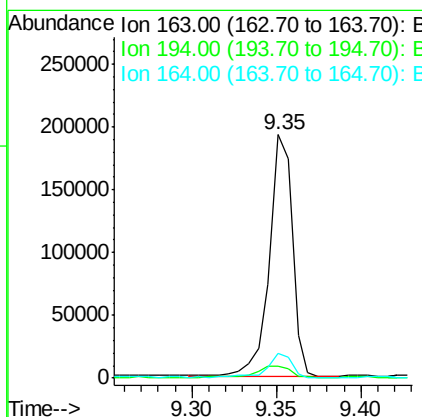
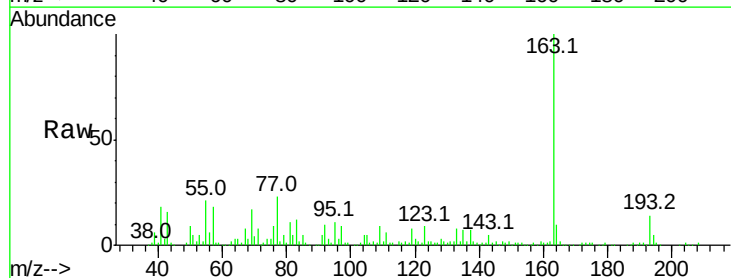
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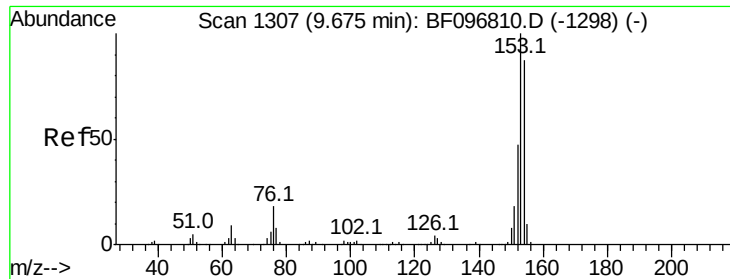
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#49  
Dimethylphthalate  
Concen: 10.871 ng  
RT: 9.35 min Scan# 1252  
Delta R.T. -0.02 min  
Lab File: BF096839.D  
Acq: 18 Jul 2017 11:11

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 5.0   | 2.6  | 4.0#  |       |
| 164     | 10.1  | 8.4  | 12.6  |       |





#51

Acenaphthene

Concen: 3.887 ng

RT: 9.66 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF096839.D

Acq: 18 Jul 2017 11:11

Instrument :

BNA\_F

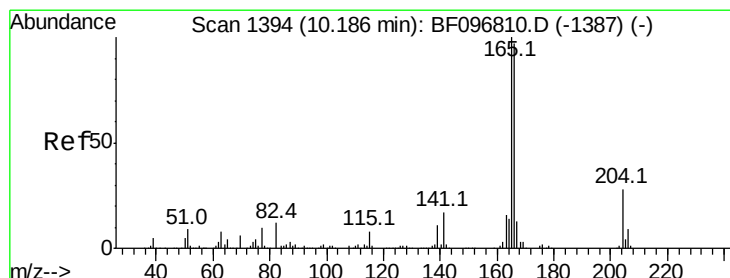
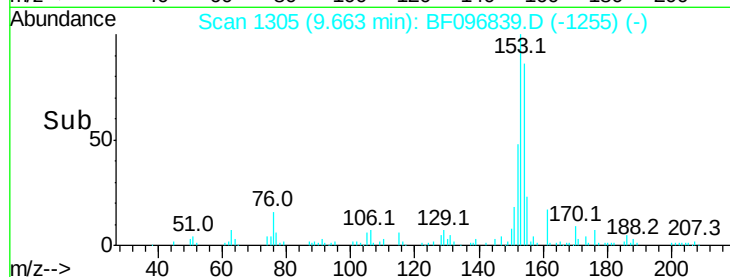
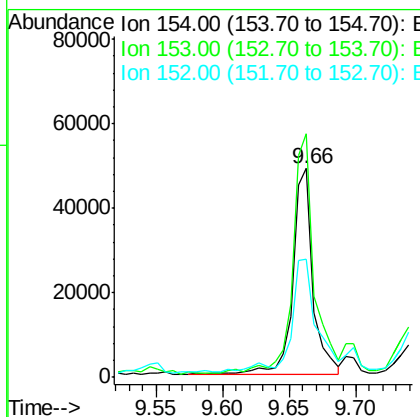
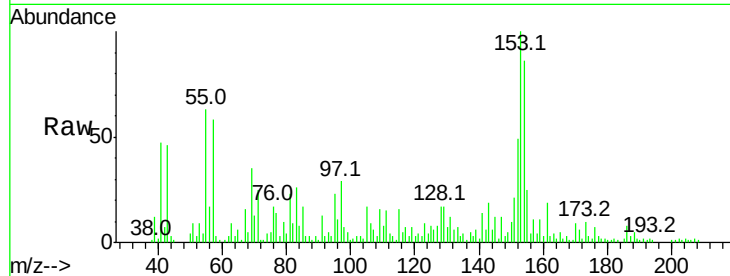
ClientSampleId :

NB-TWP07

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 51583 |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 116.6 | 90.5  | 135.7 |
| 152      | 56.8  | 43.6  | 65.4  |

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#57

Fluorene

Concen: 6.868 ng

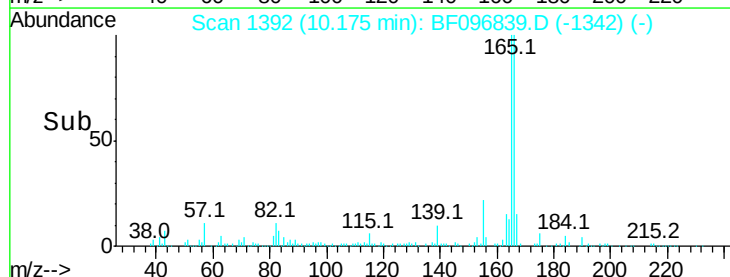
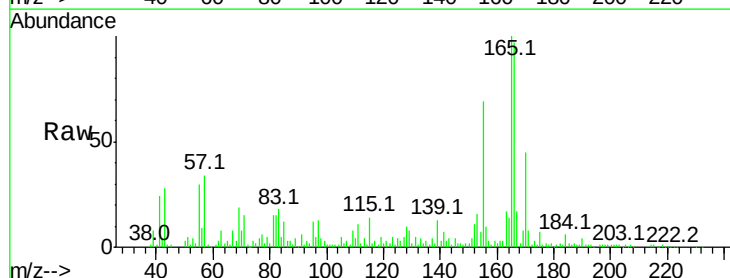
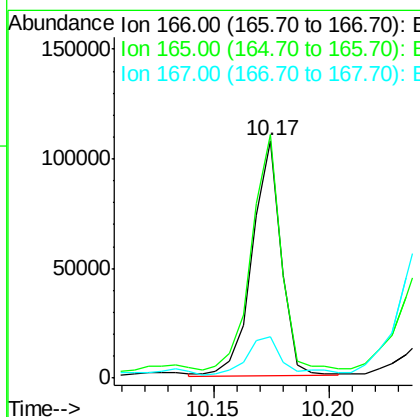
RT: 10.17 min Scan# 1392

Delta R.T. -0.01 min

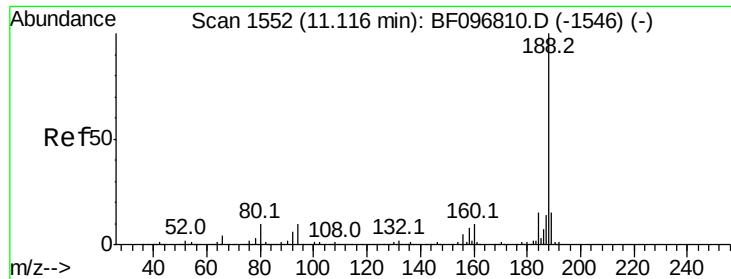
Lab File: BF096839.D

Acq: 18 Jul 2017 11:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 94387 |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 102.6 | 78.8  | 118.2 |
| 167      | 17.5  | 10.6  | 16.0# |







#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.10 min Scan# 1550

Delta R.T. 0.00 min

Lab File: BF096839.D

Acq: 18 Jul 2017 11:11

Instrument :

BNA\_F

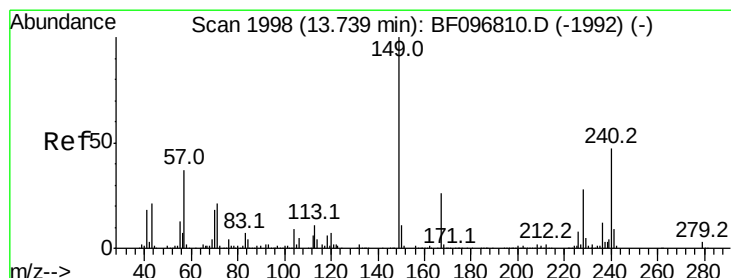
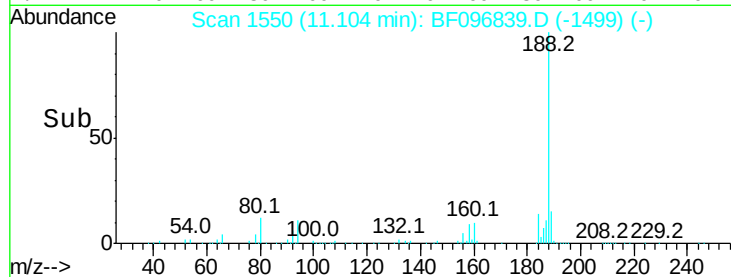
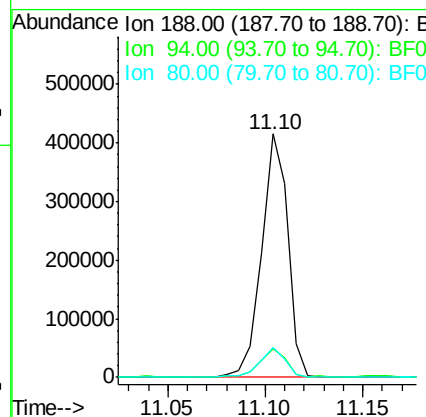
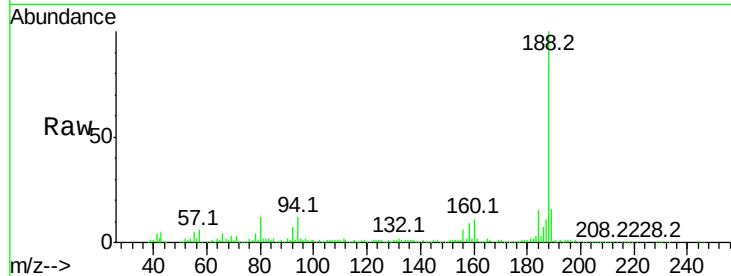
ClientSampleId :

NB-TWP07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 385949 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.7  | 9.4   | 14.2   |
| 80        | 12.2  | 10.2  | 15.2   |

Manual Integrations  
APPROVED

mohammad  
7/19/2017 2:31:11 PM



#75

Chrysene-d12

Concen: 20.000 ng

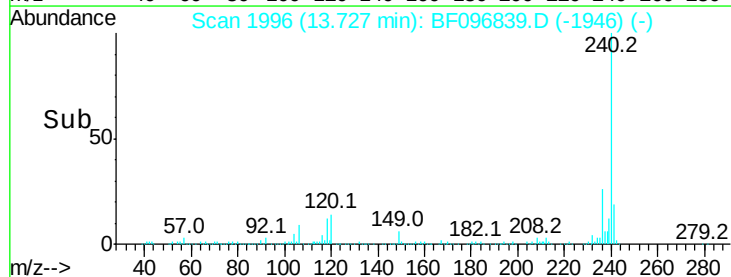
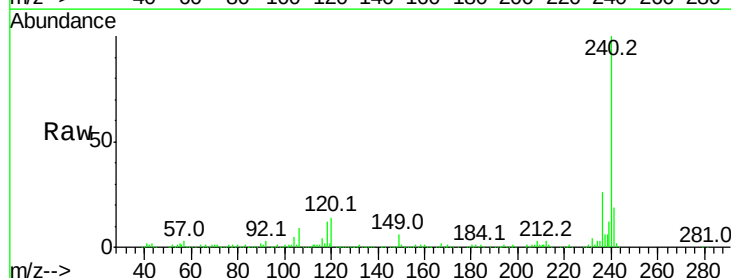
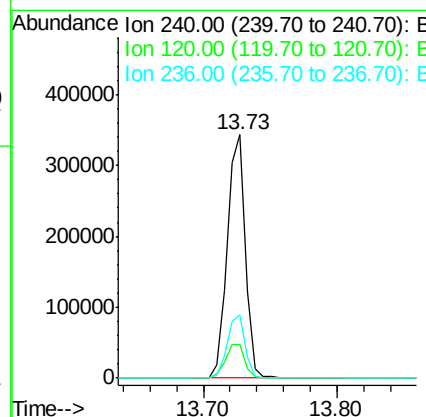
RT: 13.73 min Scan# 1996

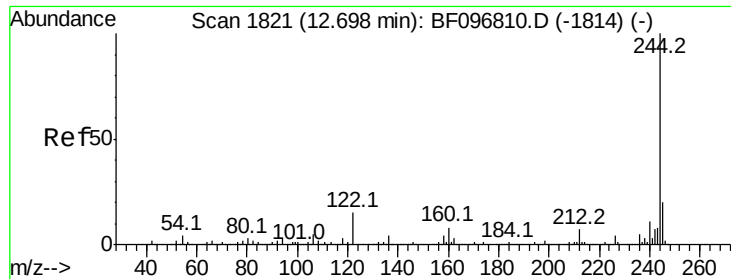
Delta R.T. -0.01 min

Lab File: BF096839.D

Acq: 18 Jul 2017 11:11

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 329763 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.7  | 5.8   | 8.8#   |
| 236       | 25.7  | 20.5  | 30.7   |





#78

Terphenyl-d14

Concen: 46.039 ng

RT: 12.69 min Scan# 1820

Delta R.T. 0.00 min

Lab File: BF096839.D

Acq: 18 Jul 2017 11:11

Instrument :

BNA\_F

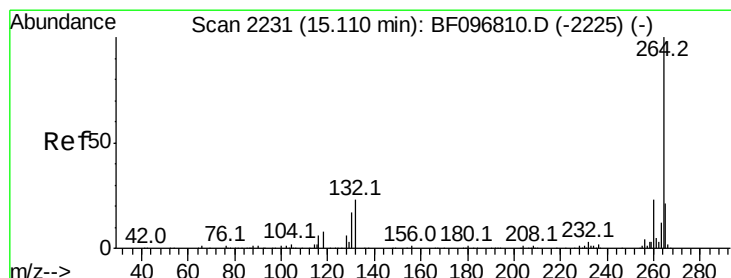
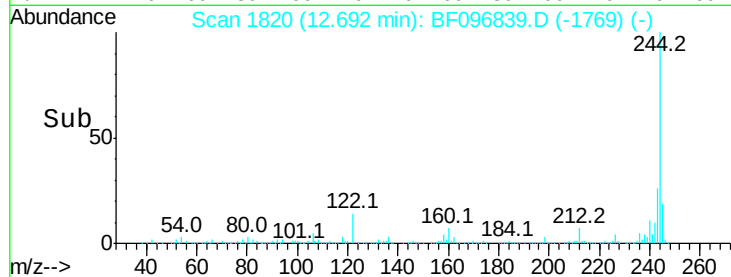
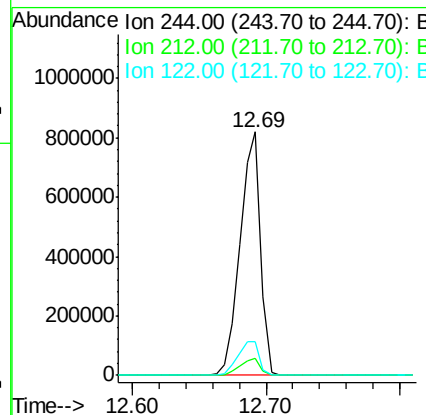
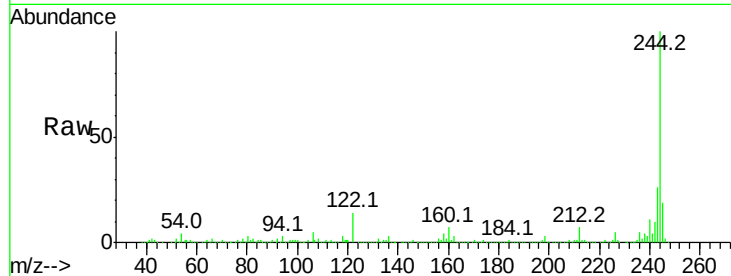
ClientSampleId :

NB-TWP07

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 6.0   | 9.0   |
| 122     | 13.7  | 10.3  | 15.5  |

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#86

Perylene-d12

Concen: 20.000 ng

RT: 15.10 min Scan# 2229

Delta R.T. -0.01 min

Lab File: BF096839.D

Acq: 18 Jul 2017 11:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.5  | 29.3  |
| 265     | 20.0  | 17.2  | 25.8  |

