

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062818\  
 Data File : BF106936.D  
 Acq On : 28 Jun 2018 22:17  
 Operator : JU/SJ  
 Sample : J3242-13 2X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-062618-G

Manual Integrations  
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 6/29/2018 2:30:53 PM

Quant Time: Jun 29 02:13:17 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 25 18:50:17 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.95  | 152  | 65585    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.24  | 136  | 225955   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 10.00 | 164  | 90945    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.48 | 188  | 166752   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 14.14 | 240  | 215785   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 15.67 | 264  | 191651   | 20.00 | ng    | -0.05    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.59  | 112  | 173597   | 44.82 | ng    | -0.01    |
| 7) Phenol-d6                | 6.59  | 99   | 205188   | 42.42 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.51  | 82   | 121694   | 29.93 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.79 | 330  | 45055    | 42.74 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 225814   | 33.00 | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.07 | 244  | 274706   | 30.84 | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 49) Dimethylphthalate       | 9.70  | 163  | 38549    | 5.652 | ng    | 99       |
| 70) Phenanthrene            | 11.51 | 178  | 19948    | 2.480 | ng    | 98       |
| 74) Fluoranthene            | 12.70 | 202  | 46218    | 5.214 | ng    | 95       |
| 77) Pyrene                  | 12.94 | 202  | 46746    | 3.285 | ng    | 97       |
| 80) Benzo(a)anthracene      | 14.12 | 228  | 35648    | 2.711 | ng    | 97       |
| 82) Chrysene                | 14.16 | 228  | 31731    | 2.623 | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 15.21 | 252  | 36934m   | 3.102 | ng    |          |
| 89) Benzo(a)pyrene          | 15.60 | 252  | 23605    | 2.230 | ng    | # 91     |

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

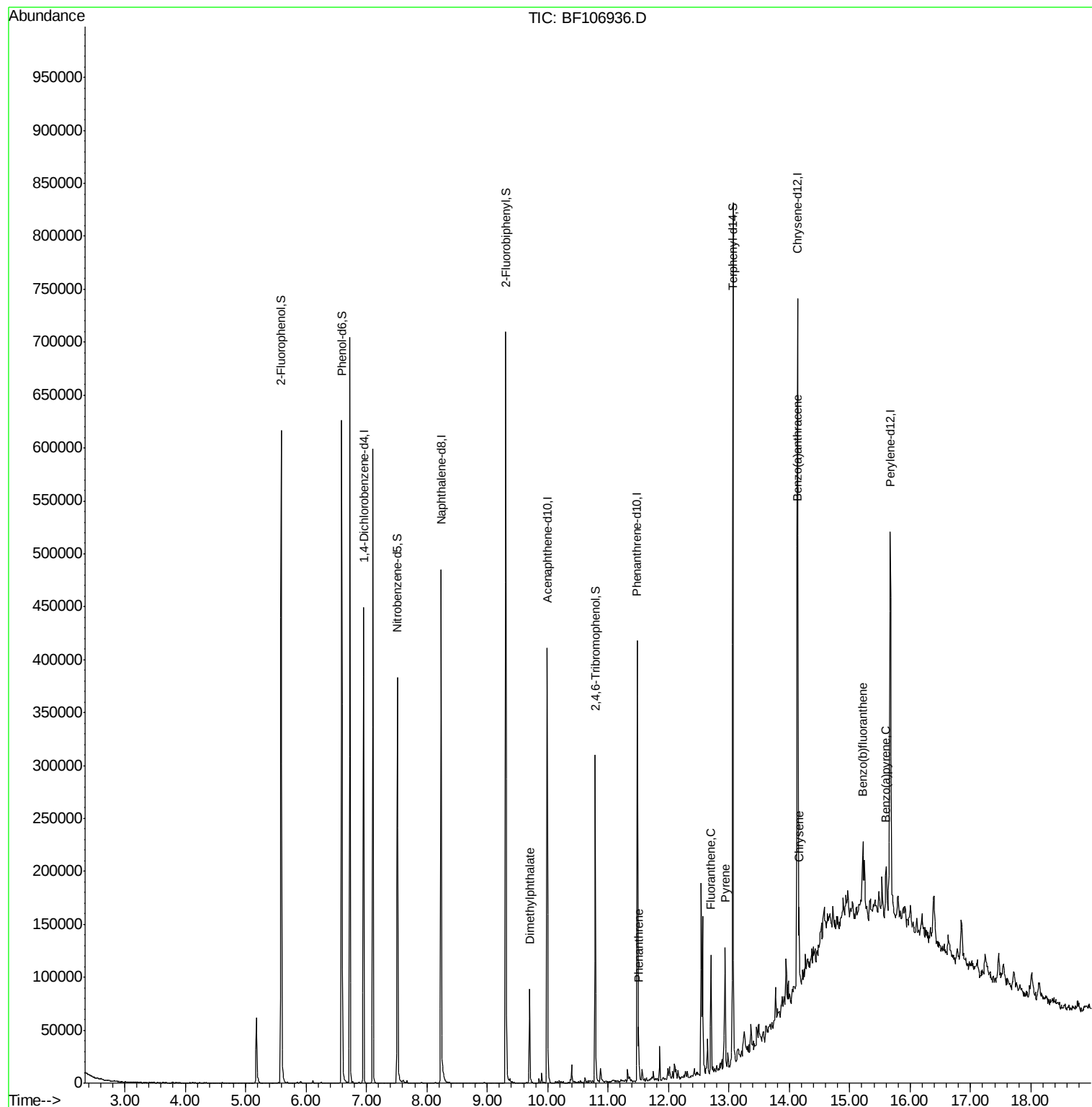
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062818\  
Data File : BF106936.D  
Acq On : 28 Jun 2018 22:17  
Operator : JU/SJ  
Sample : J3242-13 2X  
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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
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JC-02-062618-G

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Quant Time: Jun 29 02:13:17 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 25 18:50:17 2018  
Response via : Initial Calibration





#1

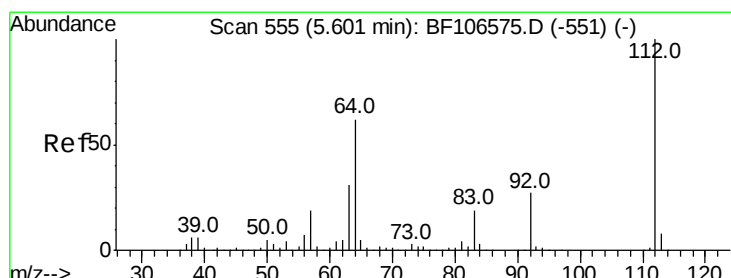
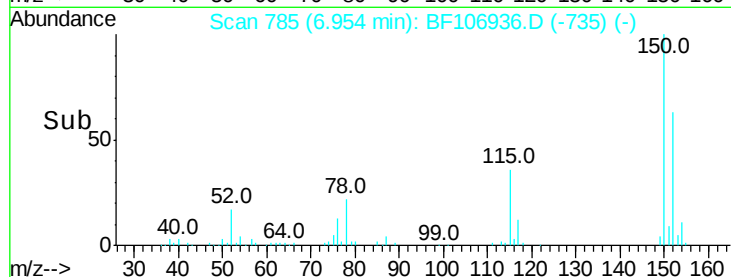
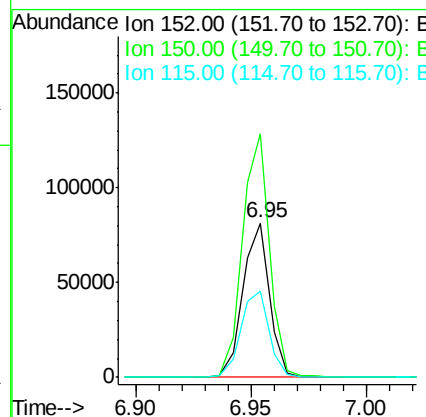
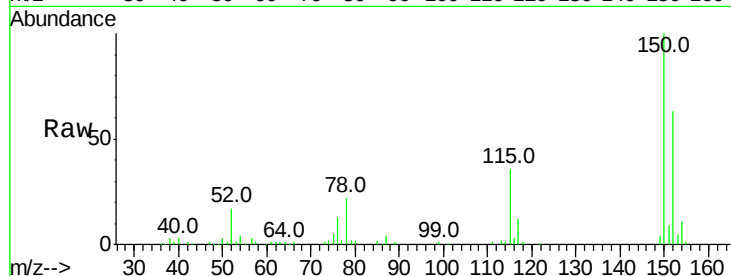
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.95 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF106936.D  
Acq: 28 Jun 2018 22:17

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-062618-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.8 | 124.6 | 186.8 |
| 115     | 56.2  | 50.1  | 75.1  |

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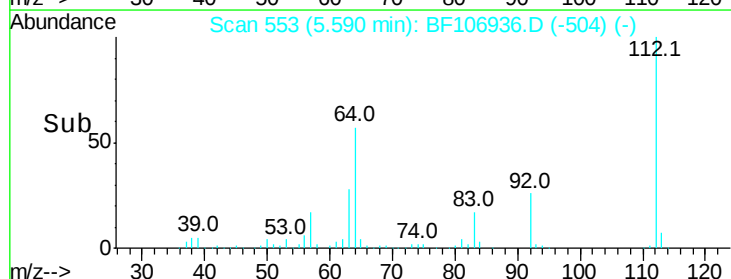
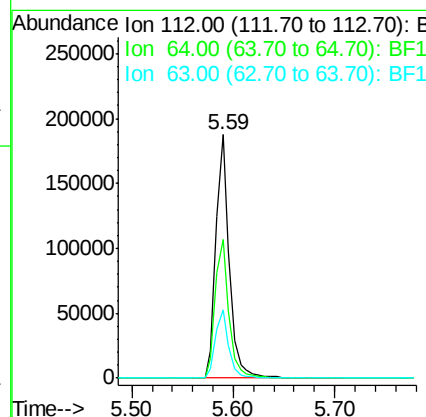
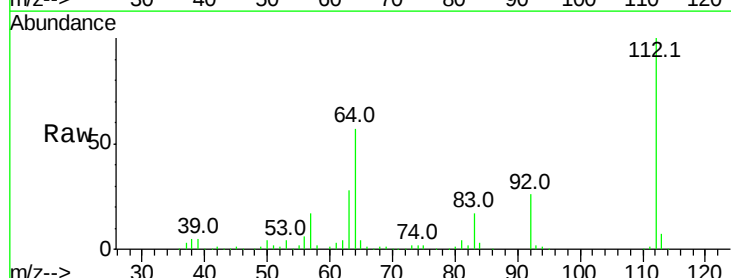
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#5

2-Fluorophenol  
Concen: 44.820 ng  
RT: 5.59 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF106936.D  
Acq: 28 Jun 2018 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.8  | 47.9  | 71.9  |
| 63      | 28.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 42.422 ng

RT: 6.59 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF106936.D

Acq: 28 Jun 2018 22:17

Instrument :

BNA\_F

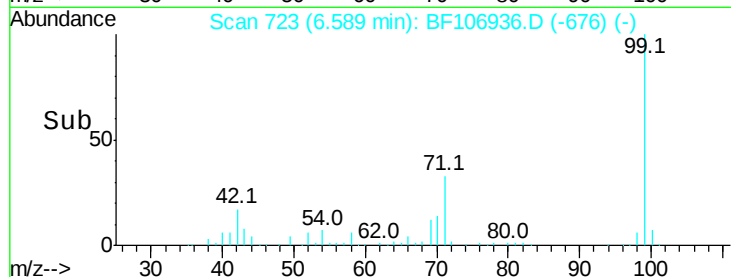
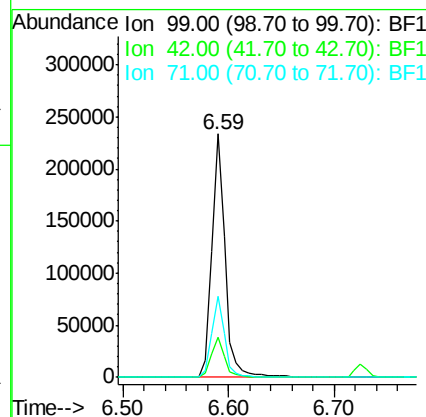
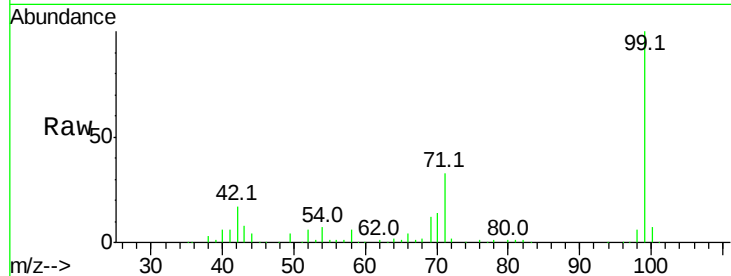
ClientSampleId :

JC-02-062618-G

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 205188 |       |       |
| 42      | 16.6 | 14.5  | 21.7   |       |       |
| 71      | 33.0 | 25.4  | 38.0   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

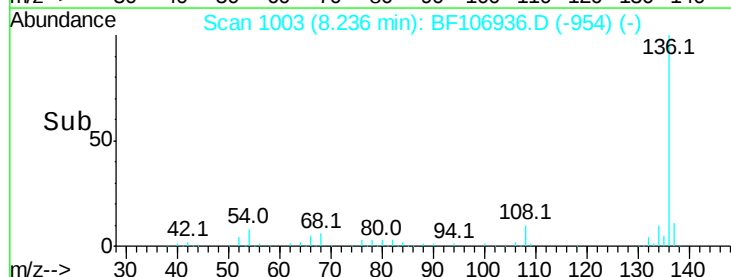
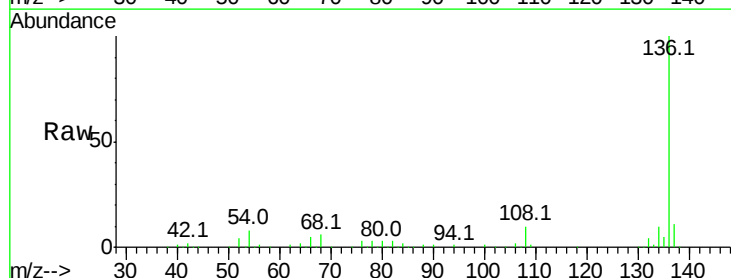
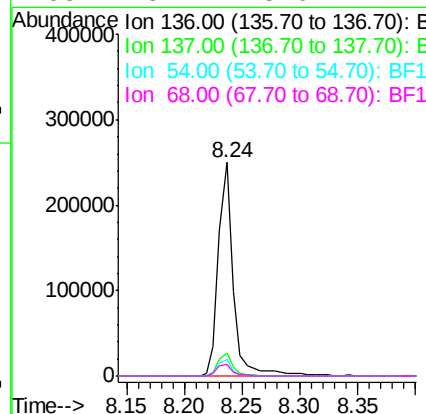
RT: 8.24 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BF106936.D

Acq: 28 Jun 2018 22:17

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 225955 |       |       |
| 137     | 10.7 | 8.9   | 13.3   |       |       |
| 54      | 7.6  | 6.6   | 9.8    |       |       |
| 68      | 5.7  | 5.0   | 7.4    |       |       |





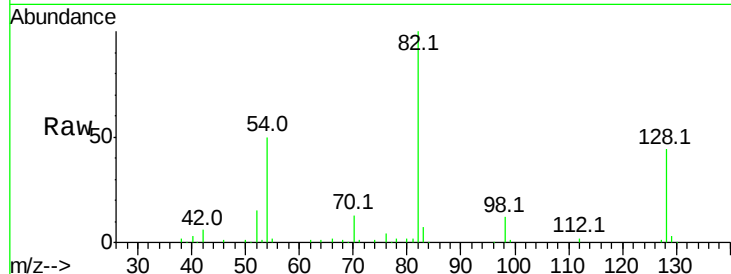
#23  
 Nitrobenzene-d5  
 Concen: 29.931 ng  
 RT: 7.51 min Scan# 880  
 Delta R.T. -0.02 min  
 Lab File: BF106936.D  
 Acq: 28 Jun 2018 22:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-062618-G

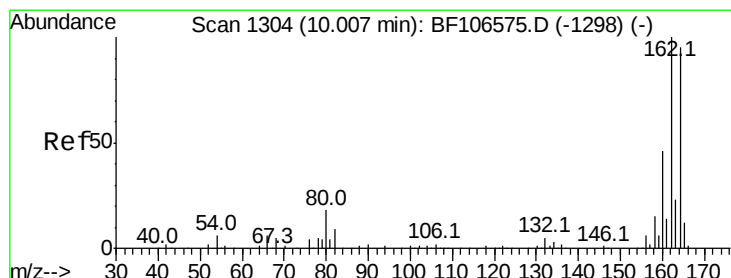
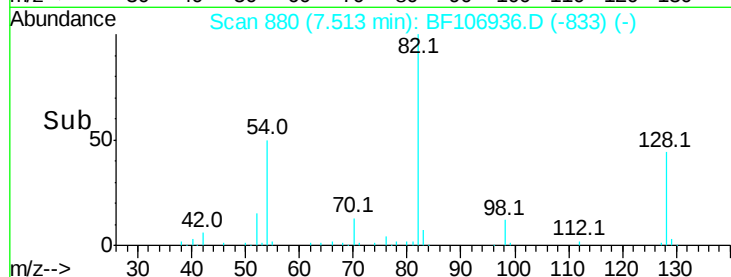
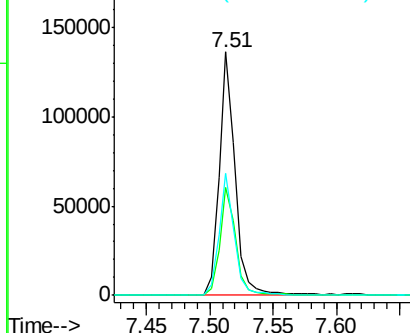
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.2  | 36.1  | 54.1  |
| 54      | 50.0  | 41.4  | 62.2  |

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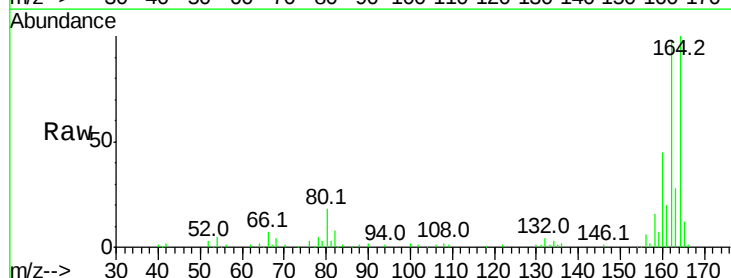


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

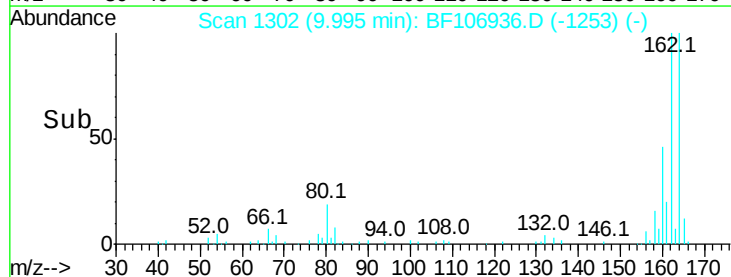
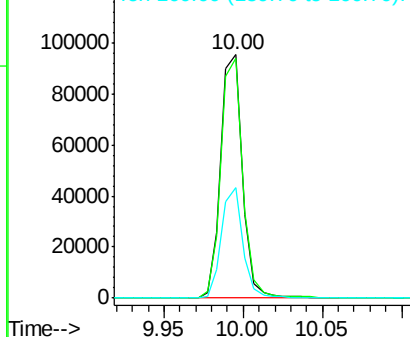


#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.00 min Scan# 1302  
 Delta R.T. -0.01 min  
 Lab File: BF106936.D  
 Acq: 28 Jun 2018 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.3  | 86.1  | 129.1 |
| 160     | 45.1  | 38.3  | 57.5  |



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





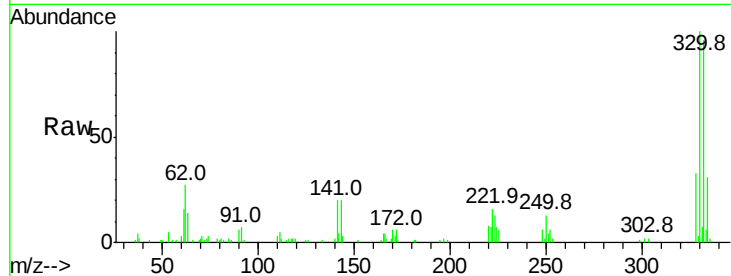
#41  
 2,4,6-Tribromophenol  
 Concen: 42.744 ng  
 RT: 10.79 min Scan# 1437  
 Delta R.T. -0.01 min  
 Lab File: BF106936.D  
 Acq: 28 Jun 2018 22:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-062618-G

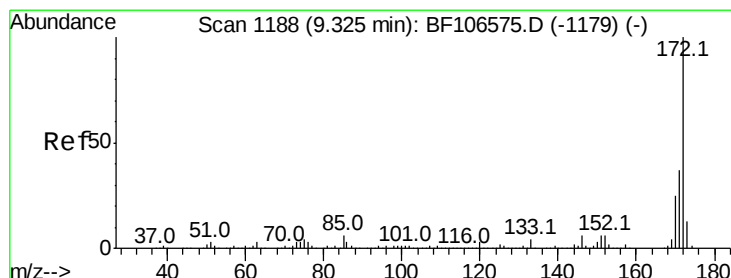
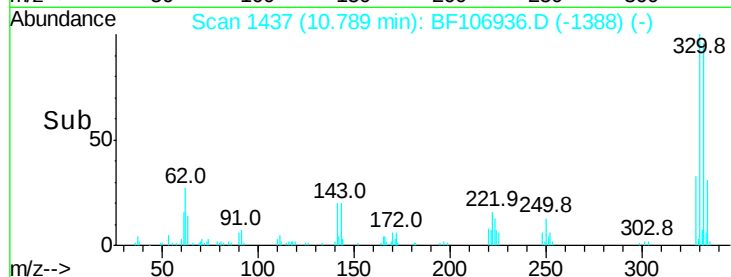
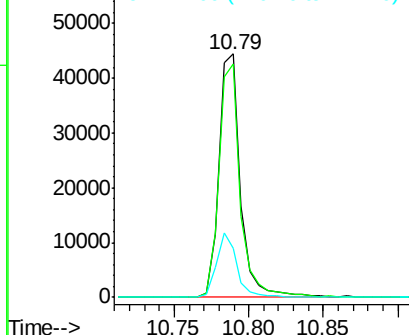
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.4  | 77.0  | 115.6 |
| 141     | 24.9  | 29.9  | 44.9# |

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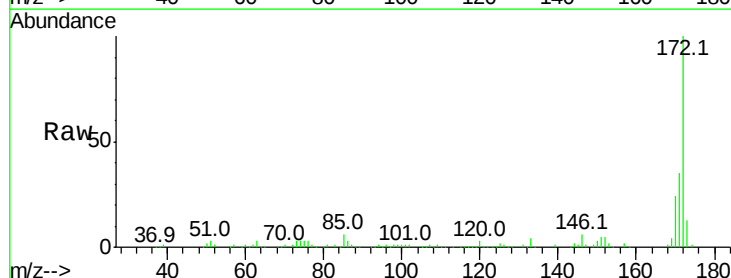


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

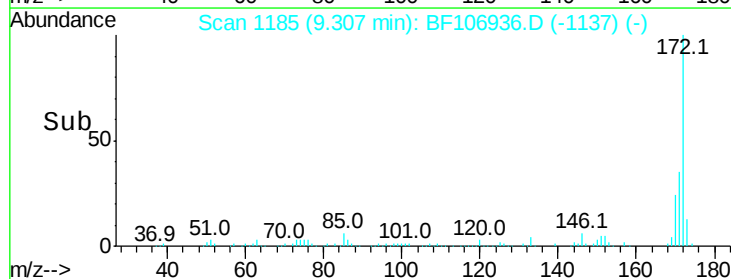
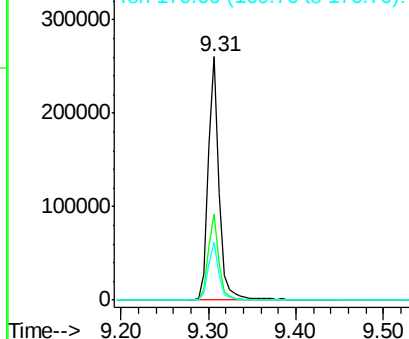


#44  
 2-Fluorobiphenyl  
 Concen: 33.004 ng  
 RT: 9.31 min Scan# 1185  
 Delta R.T. -0.02 min  
 Lab File: BF106936.D  
 Acq: 28 Jun 2018 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.2  | 29.7  | 44.5  |
| 170     | 24.1  | 19.6  | 29.4  |



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





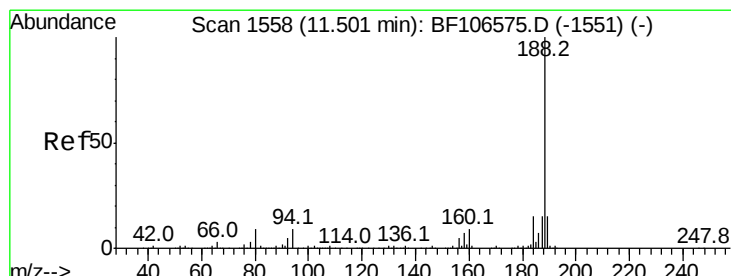
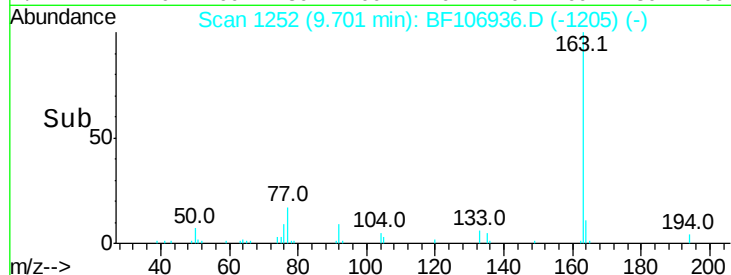
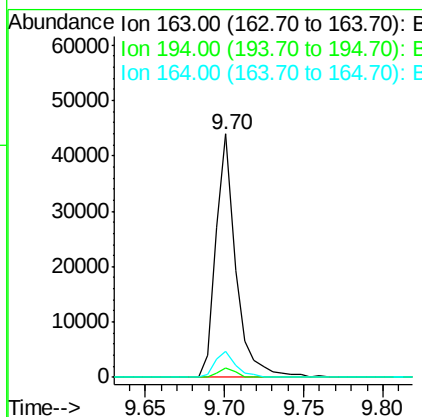
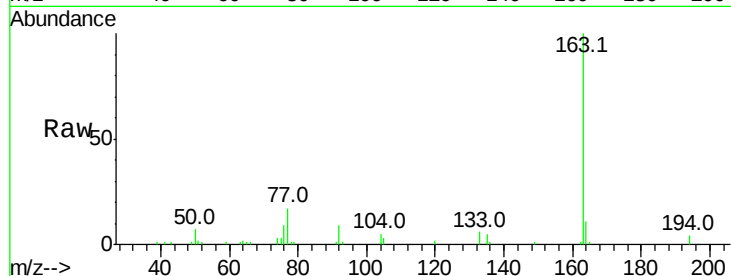
#49  
Dimethylphthalate  
Concen: 5.652 ng  
RT: 9.70 min Scan# 1252  
Delta R.T. -0.02 min  
Lab File: BF106936.D  
Acq: 28 Jun 2018 22:17

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-062618-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.7   | 2.7   | 4.1   |
| 164     | 10.5  | 8.2   | 12.2  |

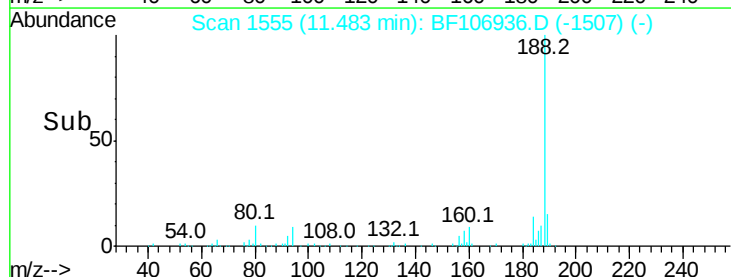
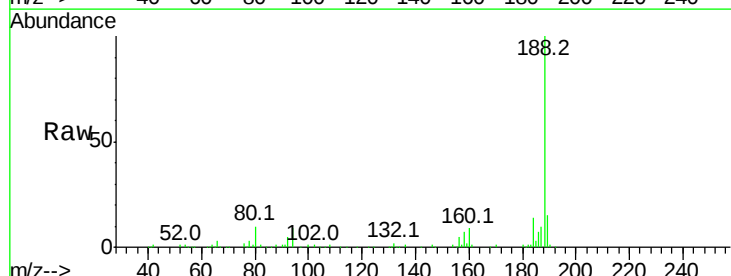
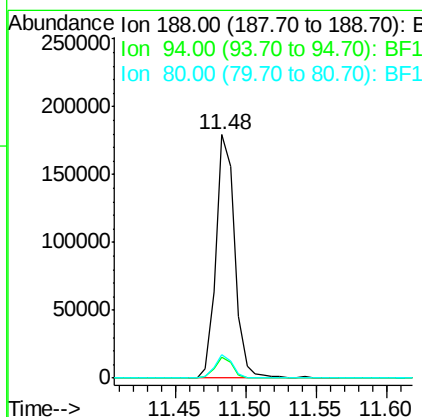
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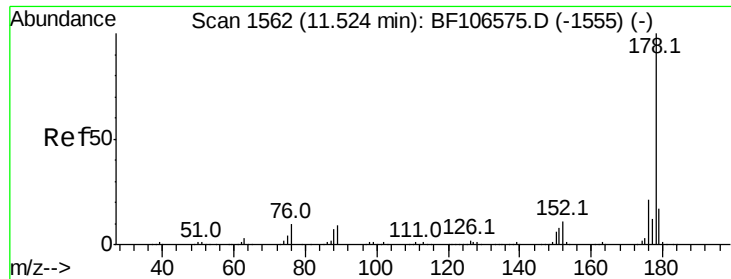
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.48 min Scan# 1555  
Delta R.T. -0.02 min  
Lab File: BF106936.D  
Acq: 28 Jun 2018 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.7   | 8.5   | 12.7  |
| 80      | 9.9   | 9.2   | 13.8  |





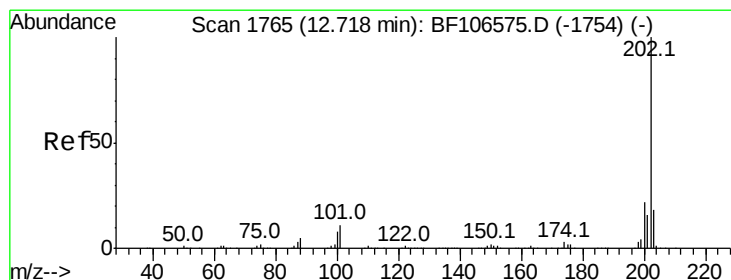
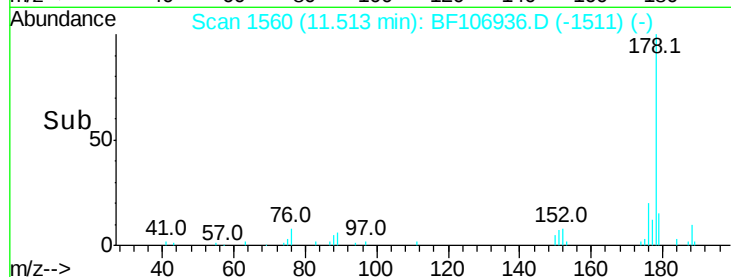
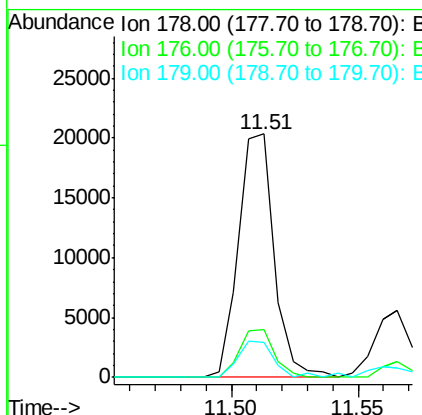
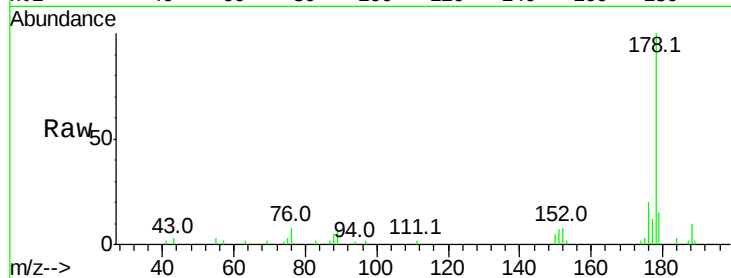
#70  
Phenanthrene  
Concen: 2.480 ng  
RT: 11.51 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF106936.D  
Acq: 28 Jun 2018 22:17

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-062618-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.7  | 15.8  | 23.8  |
| 179     | 14.5  | 13.0  | 19.6  |

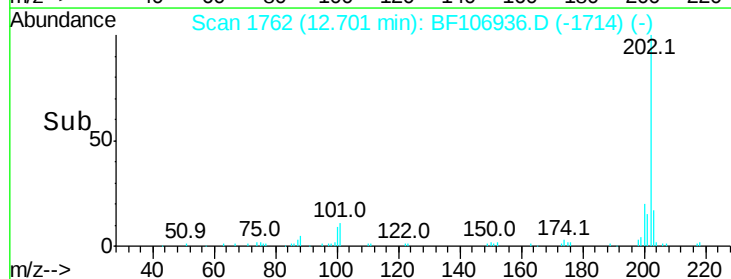
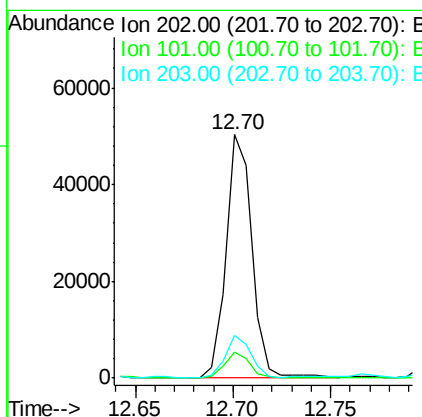
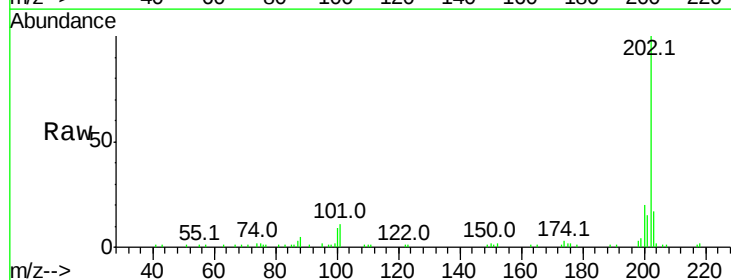
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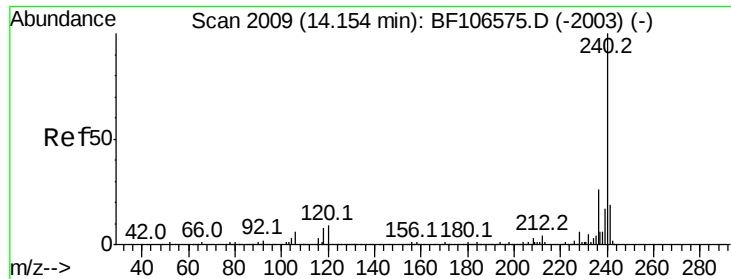
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#74  
Fluoranthene  
Concen: 5.214 ng  
RT: 12.70 min Scan# 1762  
Delta R.T. -0.02 min  
Lab File: BF106936.D  
Acq: 28 Jun 2018 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.5  | 0.0   | 34.1  |
| 203     | 17.3  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2006

Delta R.T. -0.03 min

Lab File: BF106936.D

Acq: 28 Jun 2018 22:17

Instrument :

BNA\_F

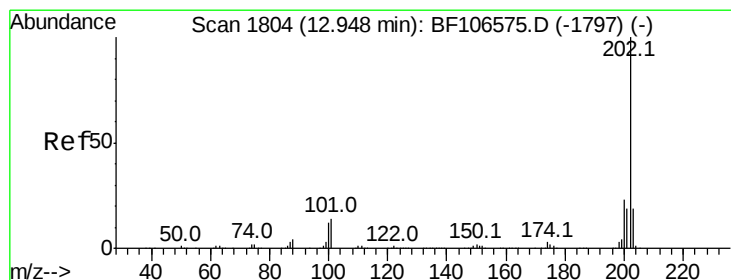
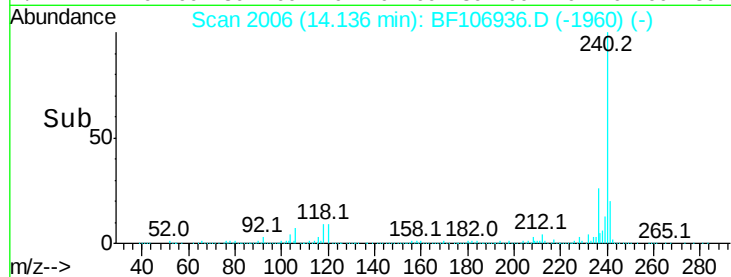
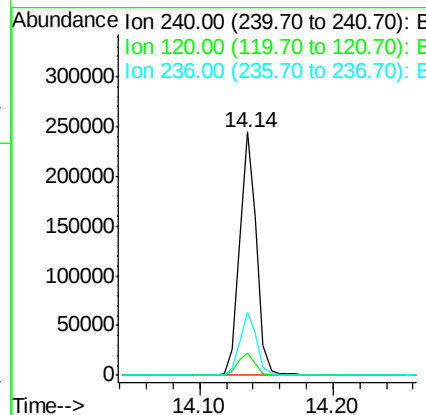
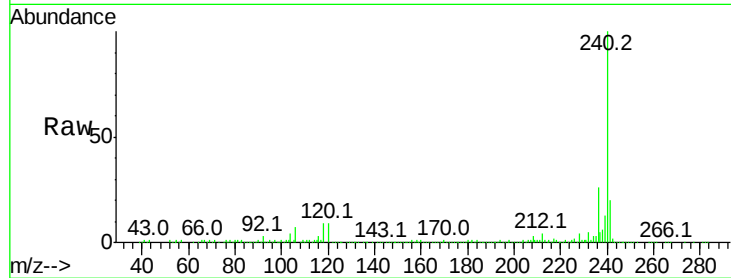
ClientSampleId :

JC-02-062618-G

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 215785 |       |       |
| 120     | 9.2   | 9.5    | 14.3  |       |
| 236     | 25.9  | 20.7   | 31.1  |       |

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#77

Pyrene

Concen: 3.285 ng

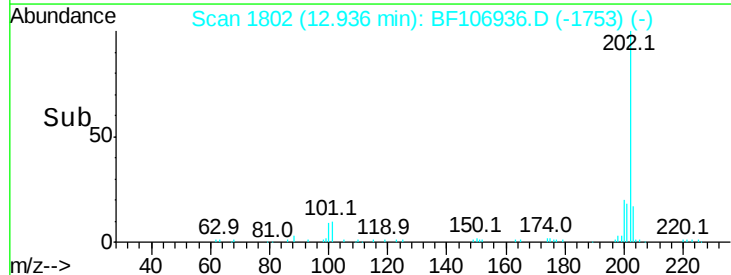
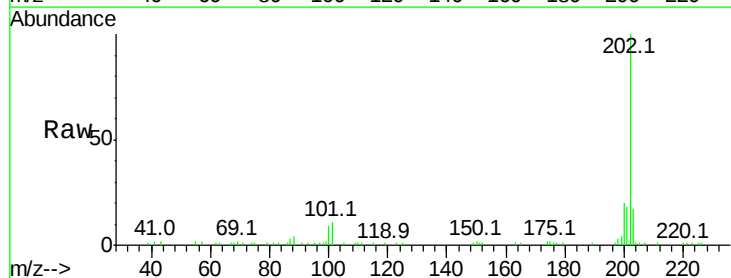
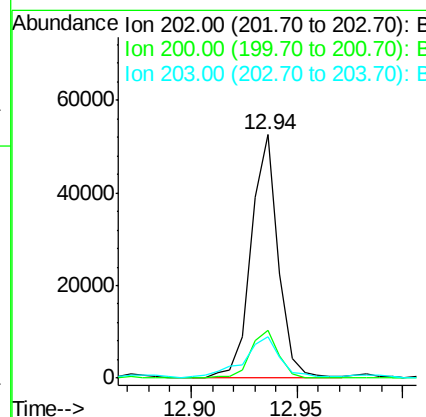
RT: 12.94 min Scan# 1802

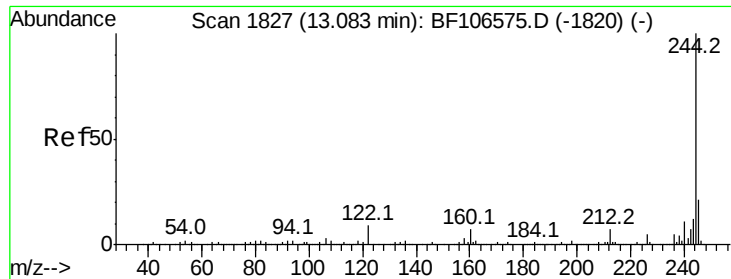
Delta R.T. -0.01 min

Lab File: BF106936.D

Acq: 28 Jun 2018 22:17

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 46746 |       |       |
| 200     | 19.9  | 17.4  | 26.2  |       |
| 203     | 17.1  | 14.3  | 21.5  |       |





#78

Terphenyl-d14

Concen: 30.837 ng

RT: 13.07 min Scan# 1824

Delta R.T. -0.02 min

Lab File: BF106936.D

Acq: 28 Jun 2018 22:17

Instrument :

BNA\_F

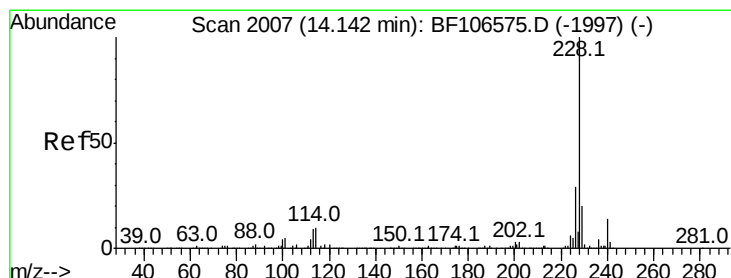
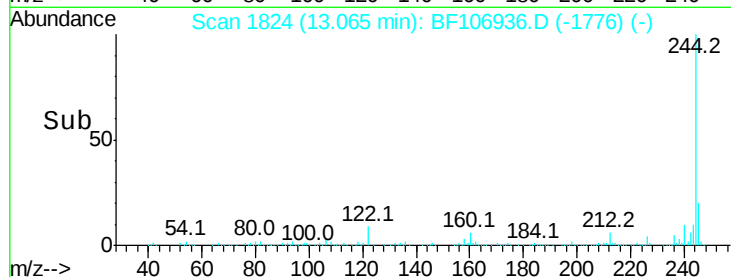
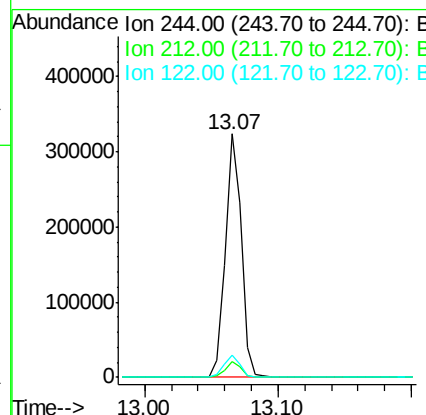
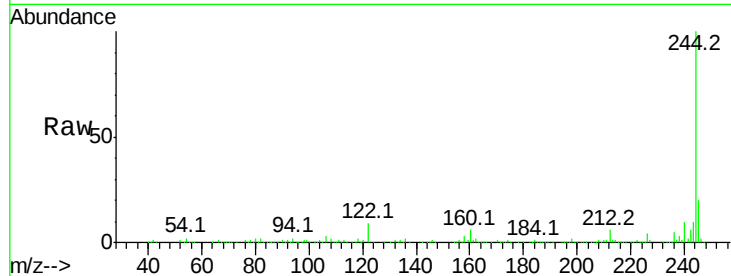
ClientSampleId :

JC-02-062618-G

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 274706 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.3   | 5.4   | 8.0    |
| 122       | 8.9   | 11.0  | 16.4   |

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#80

Benzo(a)anthracene

Concen: 2.711 ng

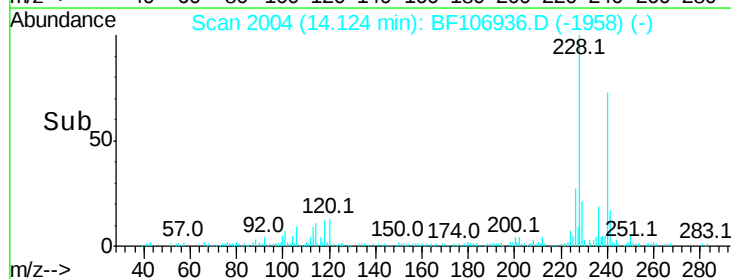
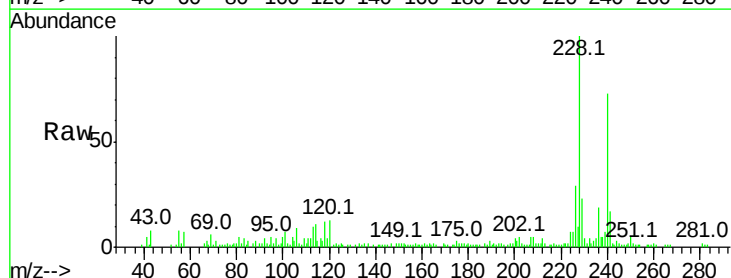
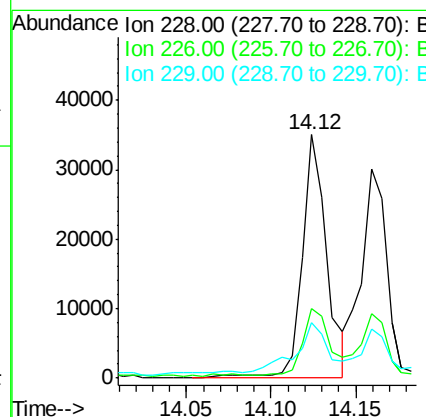
RT: 14.12 min Scan# 2004

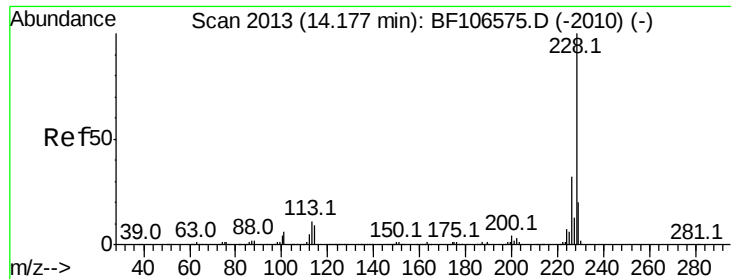
Delta R.T. -0.03 min

Lab File: BF106936.D

Acq: 28 Jun 2018 22:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 35648 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.5  | 22.6  | 33.8  |
| 229       | 22.6  | 15.8  | 23.6  |





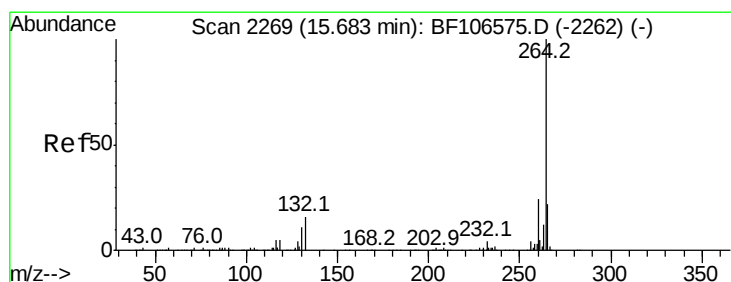
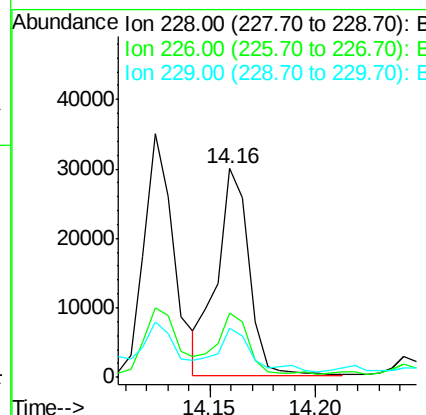
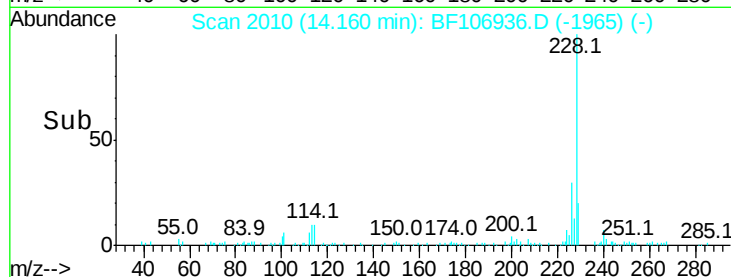
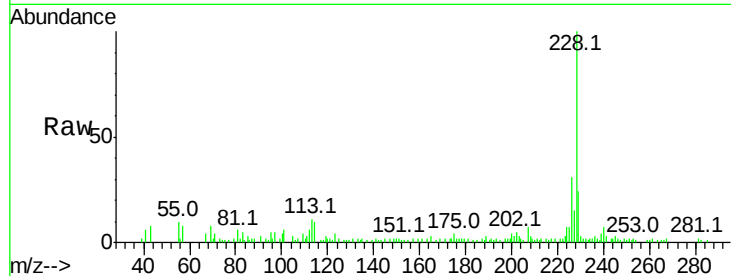
#82  
Chrysene  
Concen: 2.623 ng  
RT: 14.16 min Scan# 2010  
Delta R.T. -0.04 min  
Lab File: BF106936.D  
Acq: 28 Jun 2018 22:17

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-062618-G

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 31731 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.9  | 25.0  | 37.6  |
| 229       | 23.7  | 16.2  | 24.4  |

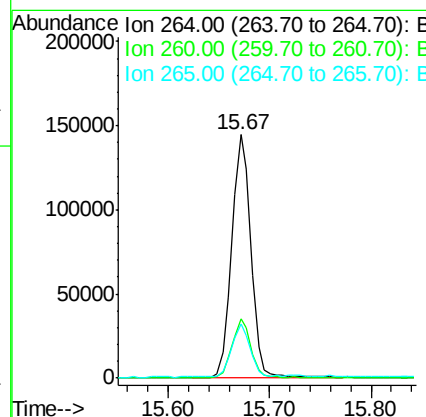
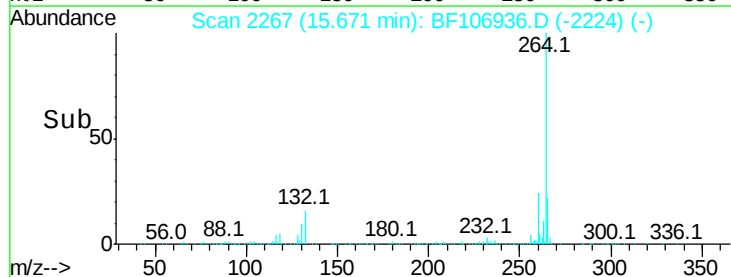
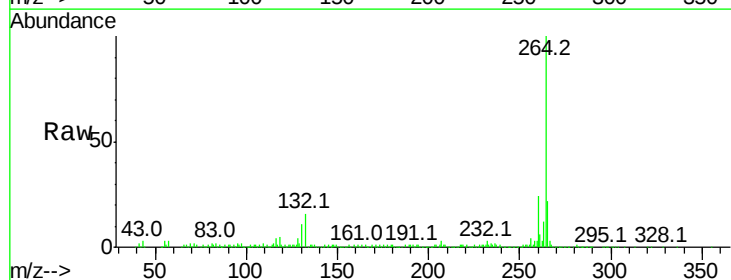
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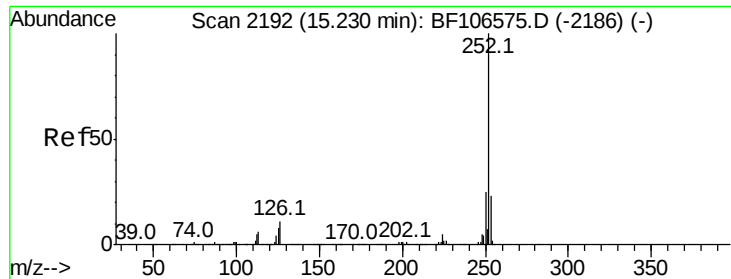
Sohil  
6/29/2018 2:30:53 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.67 min Scan# 2267  
Delta R.T. -0.05 min  
Lab File: BF106936.D  
Acq: 28 Jun 2018 22:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 191651 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.2  | 19.2  | 28.8   |
| 265       | 22.1  | 17.5  | 26.3   |





#87

Benzo(b)fluoranthene

Concen: 3.102 ng/mL

RT: 15.21 min Scan# 2189

Delta R.T. -0.05 min

Lab File: BF106936.D

Acq: 28 Jun 2018 22:17

Instrument :

BNA\_F

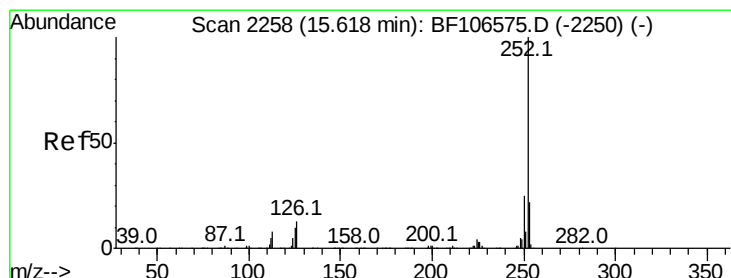
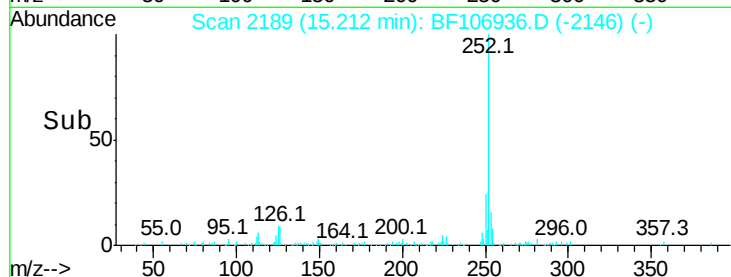
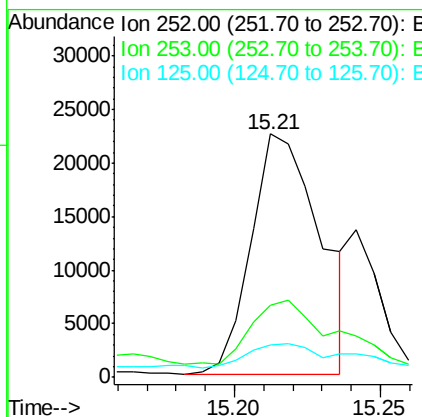
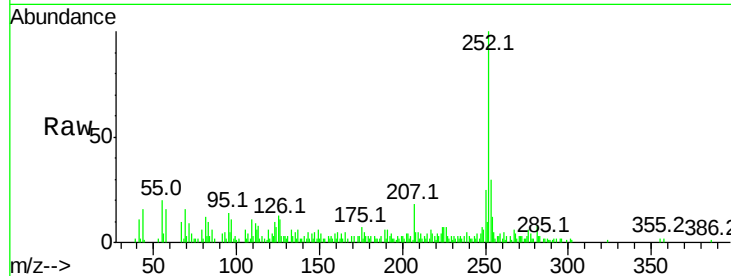
ClientSampleId :

JC-02-062618-G

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 36934 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 29.7  | 17.0  | 25.6# |
| 125       | 13.3  | 9.0   | 13.6  |

Manual Integrations  
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#89

Benzo(a)pyrene

Concen: 2.230 ng/mL

RT: 15.60 min Scan# 2255

Delta R.T. -0.05 min

Lab File: BF106936.D

Acq: 28 Jun 2018 22:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 23605 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.3  | 17.1  | 25.7# |
| 125       | 14.9  | 9.8   | 14.6# |

