

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062618\  
 Data File : BF106819.D  
 Acq On : 26 Jun 2018 13:43  
 Operator : JU/SJ  
 Sample : J3241-17  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-062218-C

Manual Integrations  
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 6/27/2018 2:13:54 PM

Quant Time: Jun 26 17:50:32 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   | 6.96  | 152  | 42482    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.24  | 136  | 162973   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 10.00 | 164  | 81305    | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.50 | 188  | 148891   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 14.15 | 240  | 138529   | 20.00  | ng    | -0.01       |
| 86) Perylene-d12            | 15.72 | 264  | 119740   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.60  | 112  | 160808   | 64.10  | ng    | 0.00        |
| 7) Phenol-d6                | 6.60  | 99   | 209474   | 66.86  | ng    | -0.02       |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 125970   | 42.96  | ng    | -0.02       |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 65309    | 69.30  | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 261580   | 48.04  | ng    | -0.01       |
| 78) Terphenyl-d14           | 13.08 | 244  | 290896   | 50.87  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 49) Dimethylphthalate       | 9.71  | 163  | 44448    | 7.289  | ng    | Qvalue # 97 |
| 70) Phenanthrene            | 11.51 | 178  | 75644    | 10.533 | ng    | 98          |
| 71) Anthracene              | 11.57 | 178  | 23305    | 3.179  | ng    | 98          |
| 74) Fluoranthene            | 12.71 | 202  | 150533   | 19.018 | ng    | 94          |
| 77) Pyrene                  | 12.94 | 202  | 141298   | 15.468 | ng    | 97          |
| 80) Benzo(a)anthracene      | 14.14 | 228  | 77064    | 9.128  | ng    | 98          |
| 82) Chrysene                | 14.18 | 228  | 72123    | 9.285  | ng    | 97          |
| 85) Indeno(1,2,3-cd)pyrene  | 17.29 | 276  | 31047    | 4.710  | ng    | # 86        |
| 87) Benzo(b)fluoranthene    | 15.25 | 252  | 97187m   | 13.066 | ng    |             |
| 88) Benzo(k)fluoranthene    | 15.28 | 252  | 25263m   | 3.567  | ng    |             |
| 89) Benzo(a)pyrene          | 15.65 | 252  | 62381    | 9.434  | ng    | 96          |
| 91) Benzo(a,h,i)perylene    | 17.78 | 276  | 32390    | 5.913  | ng    | # 90        |

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

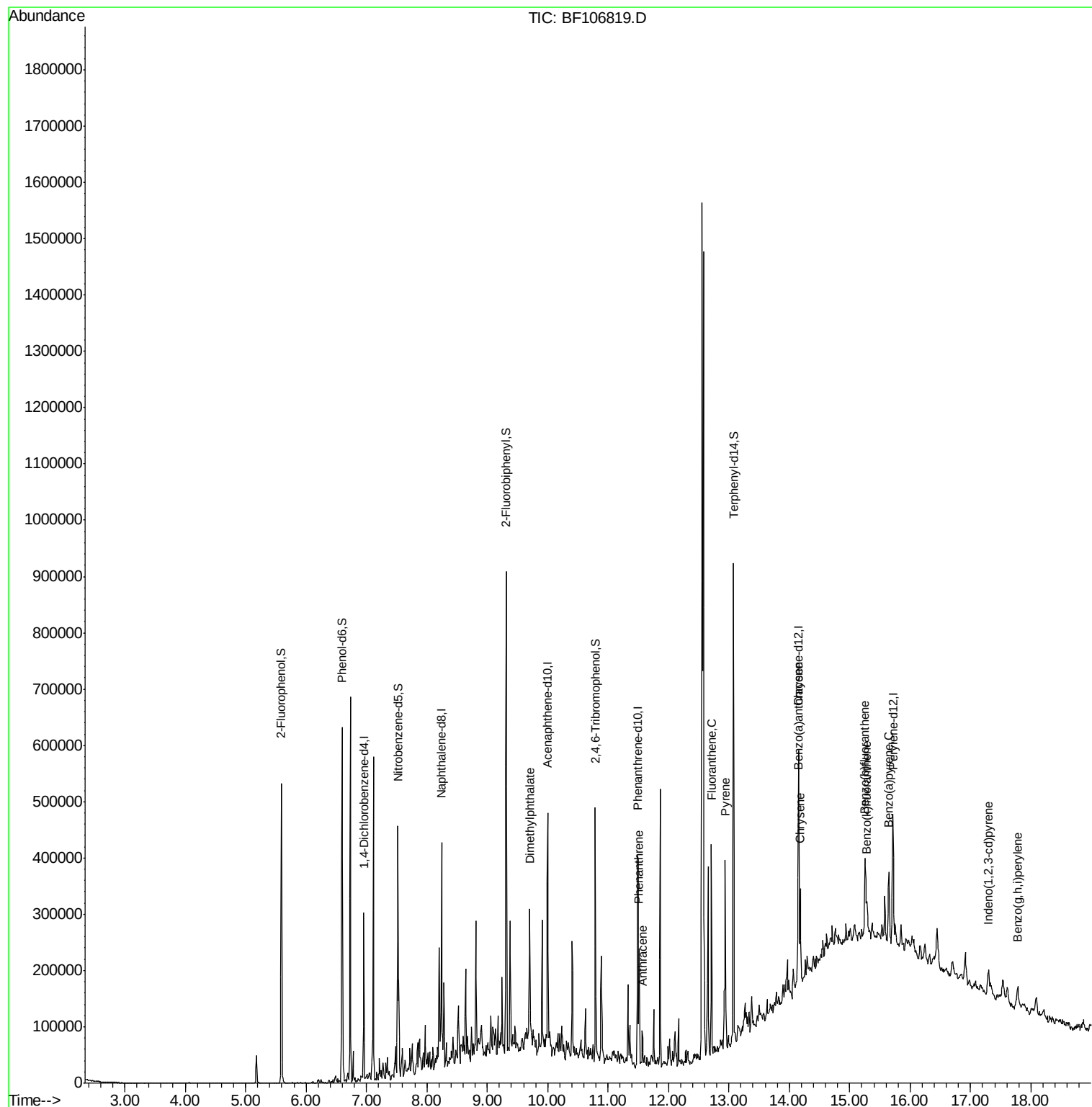
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062618\  
Data File : BF106819.D  
Acq On : 26 Jun 2018 13:43  
Operator : JU/SJ  
Sample : J3241-17  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

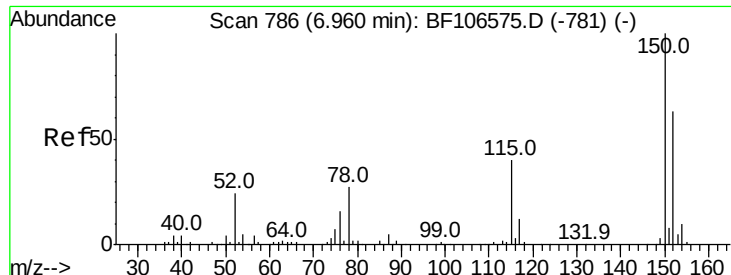
Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-062218-C

Quant Time: Jun 26 17:50:32 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

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#1

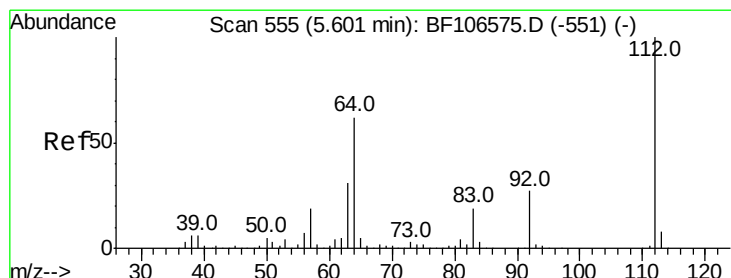
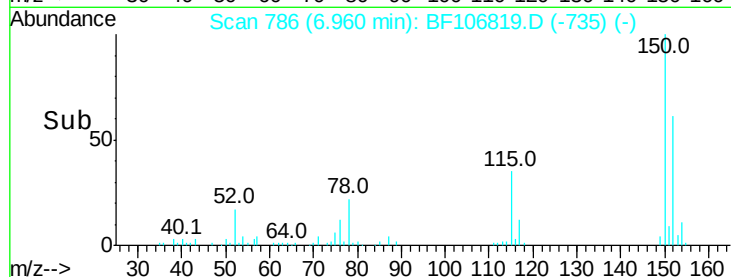
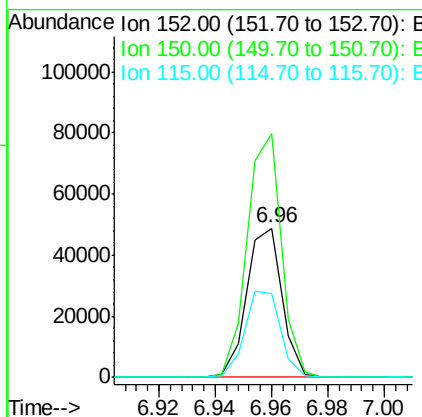
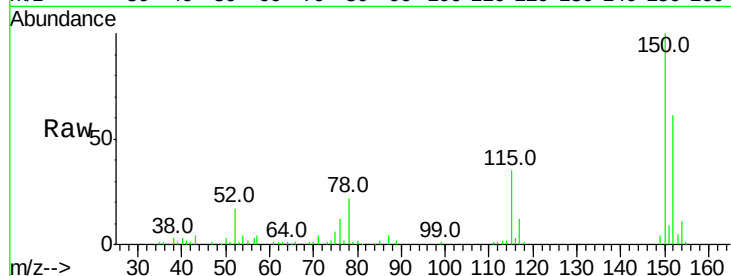
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 786  
Delta R.T. -0.00 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-062218-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 163.1 | 124.6 | 186.8 |
| 115     | 56.4  | 50.1  | 75.1  |

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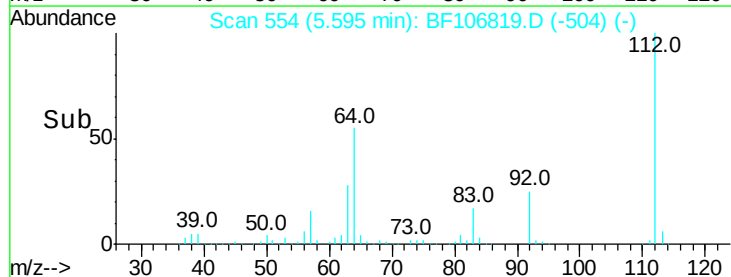
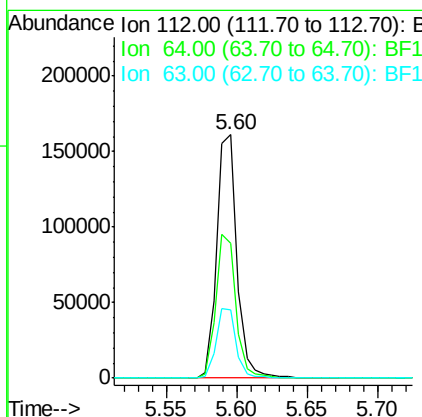
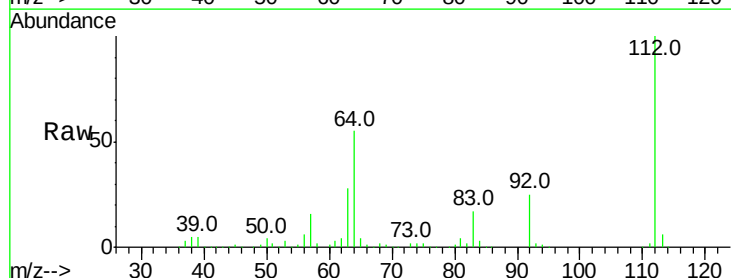
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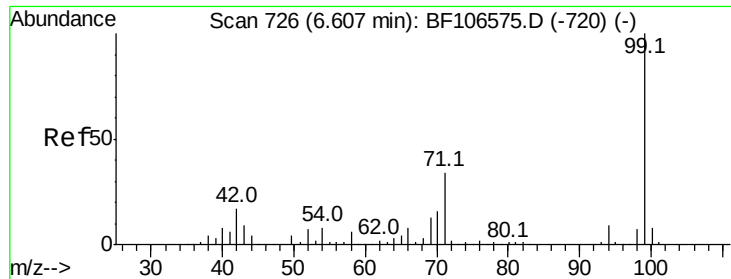


#5

2-Fluorophenol  
Concen: 64.098 ng  
RT: 5.60 min Scan# 554  
Delta R.T. -0.01 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.4  | 47.9  | 71.9  |
| 63      | 27.9  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 66.860 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF106819.D

Acq: 26 Jun 2018 13:43

Instrument :

BNA\_F

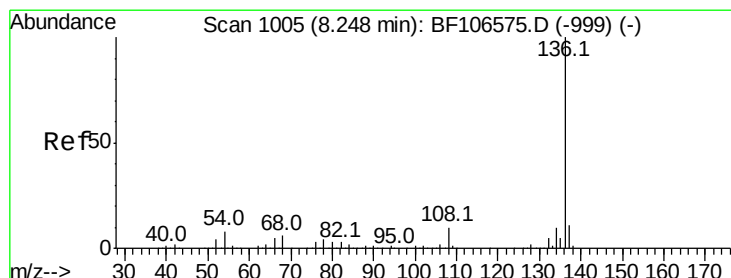
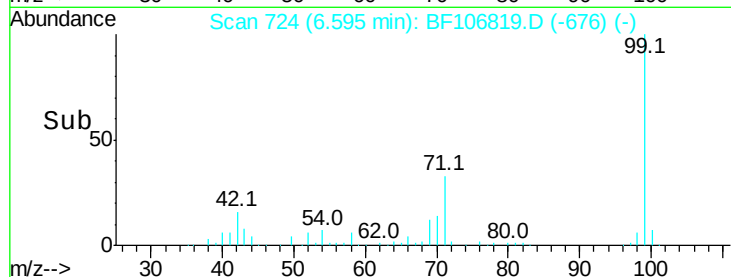
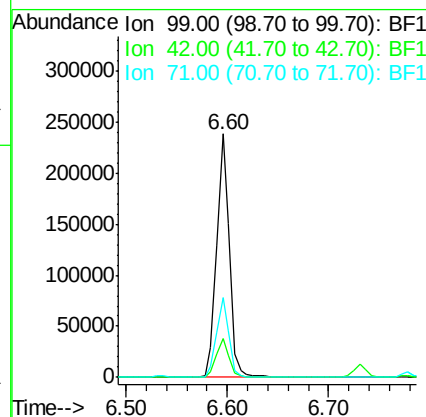
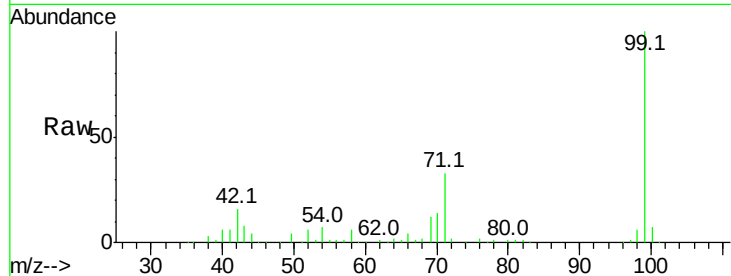
ClientSampleId :

HR-06-062218-C

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 209474 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 15.9  | 14.5  | 21.7   |
| 71       | 32.6  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

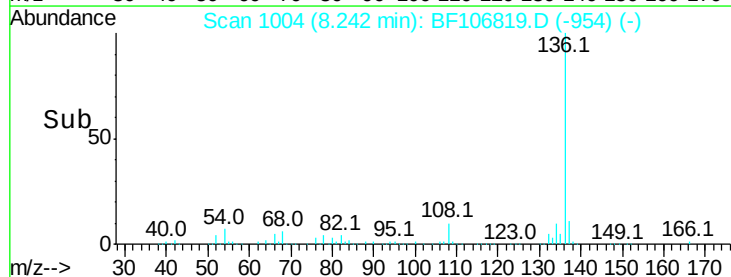
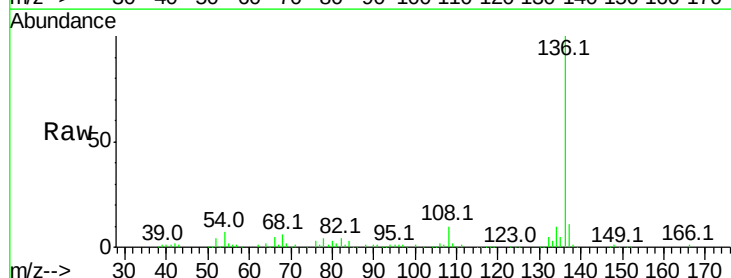
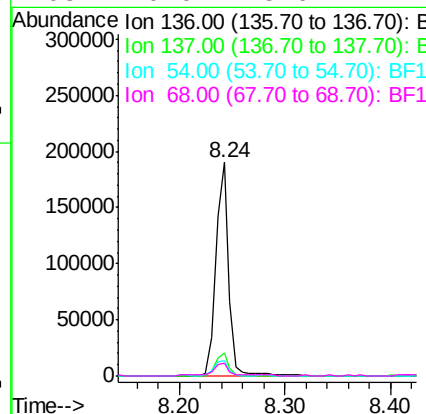
RT: 8.24 min Scan# 1004

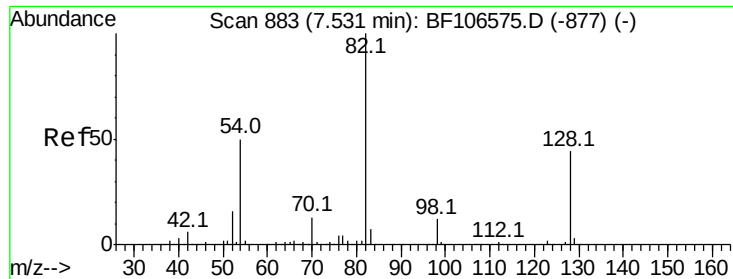
Delta R.T. -0.01 min

Lab File: BF106819.D

Acq: 26 Jun 2018 13:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 162973 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 7.5   | 6.6   | 9.8    |
| 68       | 6.0   | 5.0   | 7.4    |





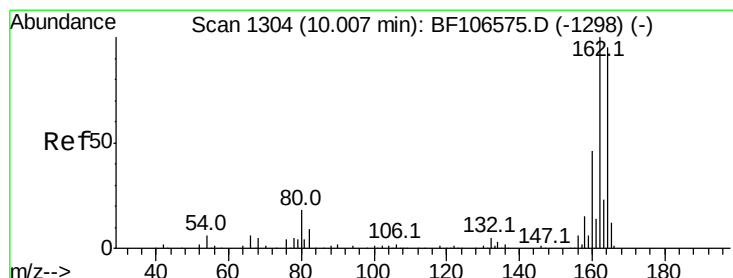
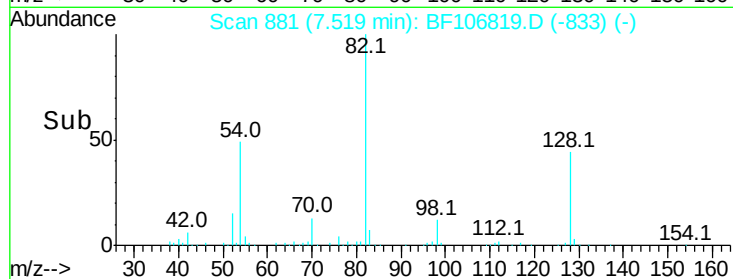
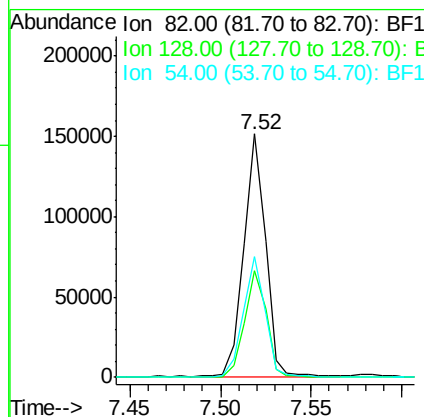
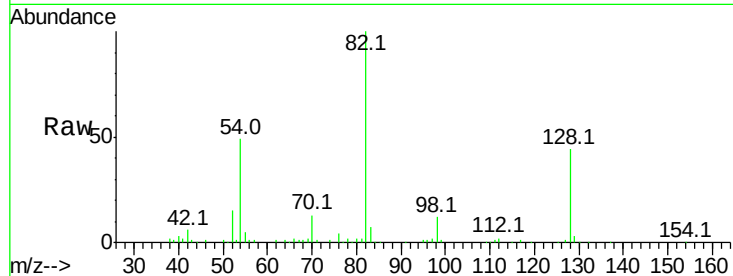
#23  
 Nitrobenzene-d5  
 Concen: 42.956 ng  
 RT: 7.52 min Scan# 881  
 Delta R.T. -0.02 min  
 Lab File: BF106819.D  
 Acq: 26 Jun 2018 13:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-062218-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.1  | 36.1  | 54.1  |
| 54      | 49.4  | 41.4  | 62.2  |

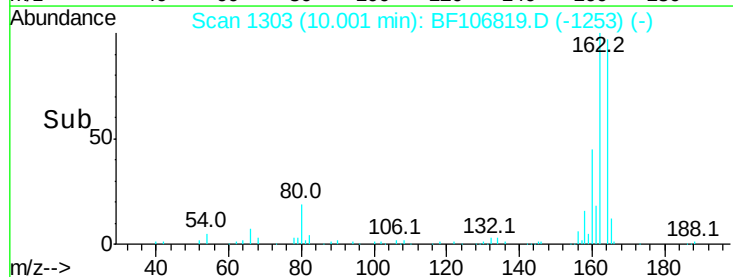
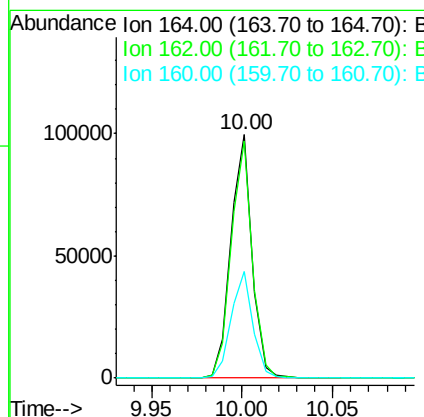
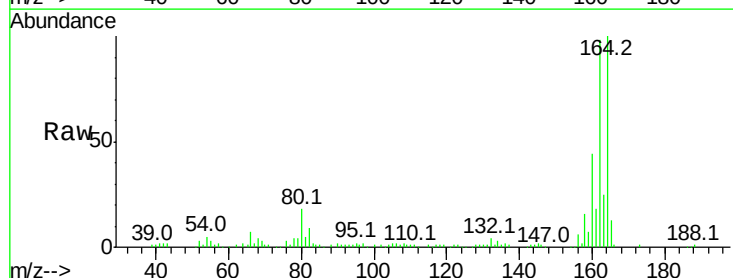
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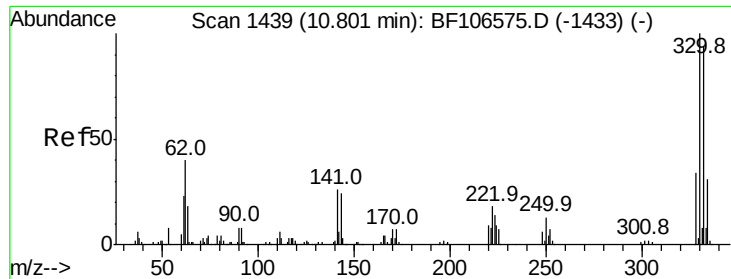
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.00 min Scan# 1303  
 Delta R.T. -0.01 min  
 Lab File: BF106819.D  
 Acq: 26 Jun 2018 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 97.6  | 86.1  | 129.1 |
| 160     | 43.9  | 38.3  | 57.5  |





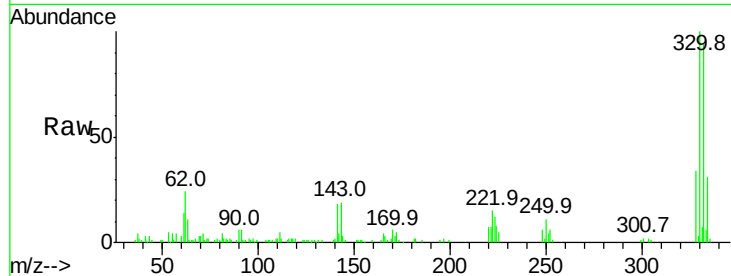
#41  
 2,4,6-Tribromophenol  
 Concen: 69.305 ng  
 RT: 10.80 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF106819.D  
 Acq: 26 Jun 2018 13:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-062218-C

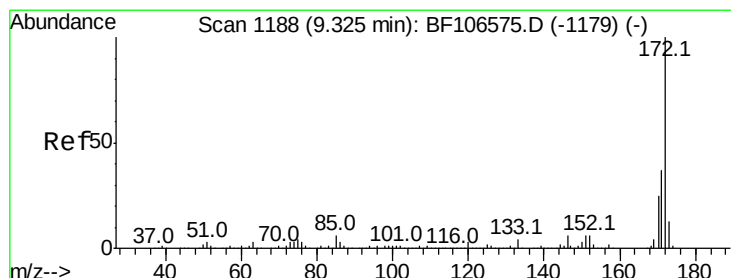
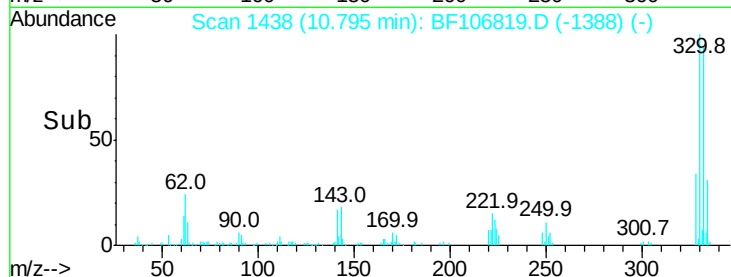
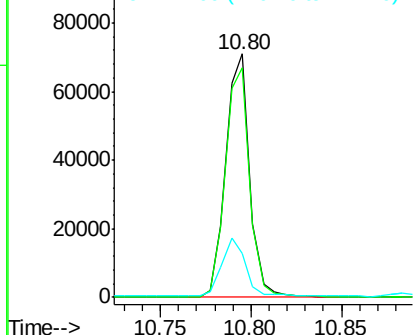
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 65309 |       |       |
| 332     | 96.3  |       | 77.0  | 115.6 |
| 141     | 23.2  |       | 29.9  | 44.9# |

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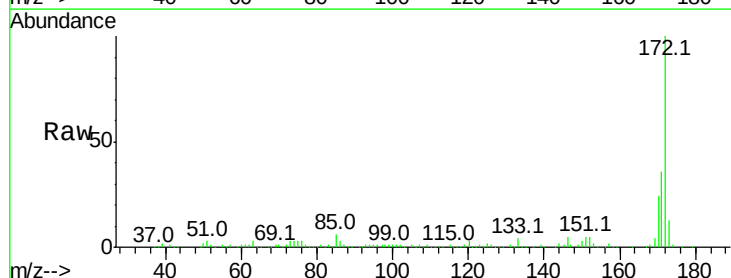


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

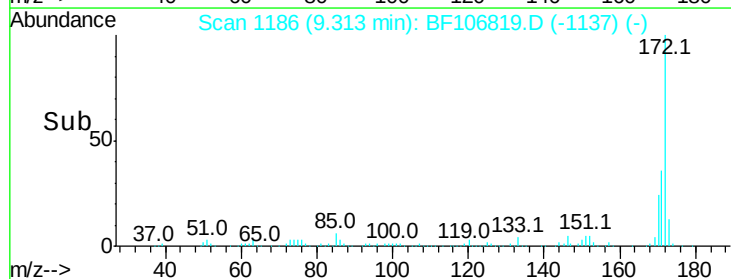
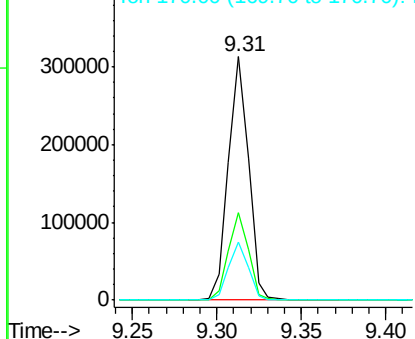


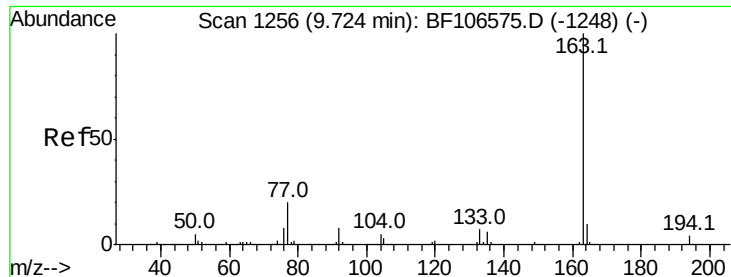
#44  
 2-Fluorobiphenyl  
 Concen: 48.043 ng  
 RT: 9.31 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF106819.D  
 Acq: 26 Jun 2018 13:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 261580 |       |       |
| 171     | 35.9  |        | 29.7  | 44.5  |
| 170     | 24.0  |        | 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





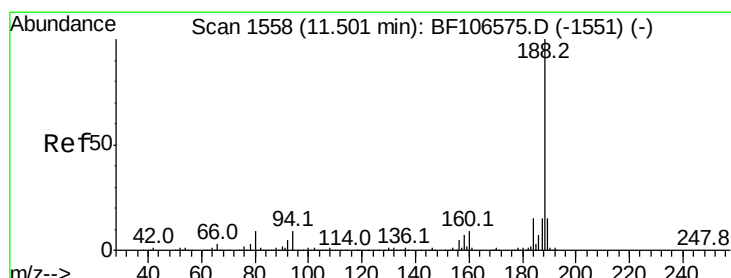
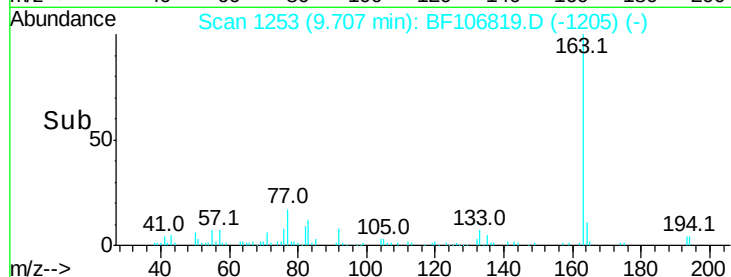
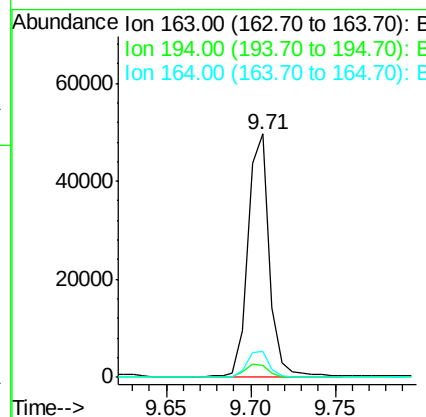
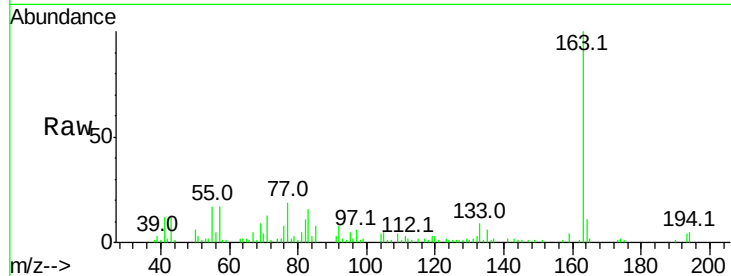
#49  
Dimethylphthalate  
Concen: 7.289 ng  
RT: 9.71 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-062218-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.9   | 2.7   | 4.1#  |
| 164     | 10.9  | 8.2   | 12.2  |

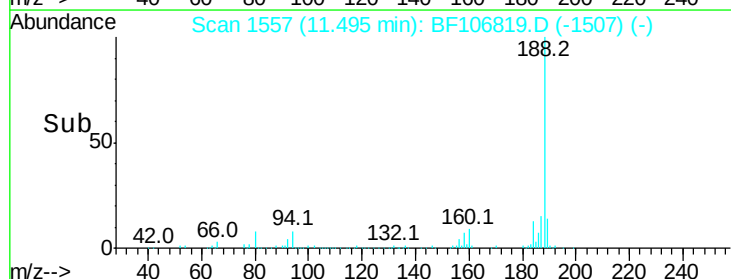
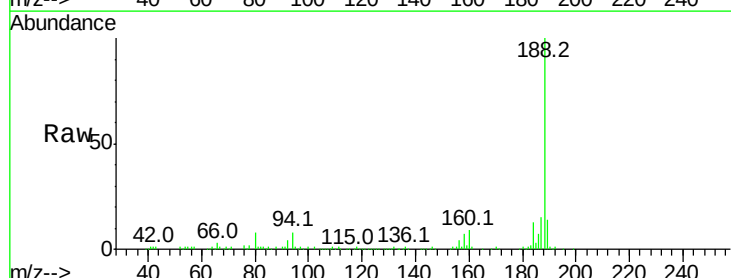
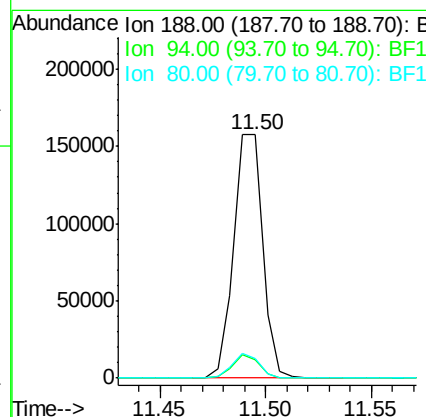
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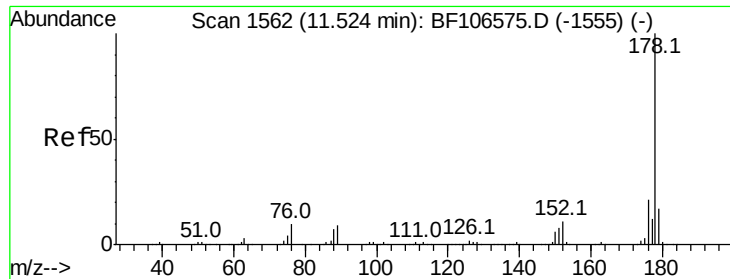
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1557  
Delta R.T. -0.01 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.7   | 8.5   | 12.7# |
| 80      | 7.8   | 9.2   | 13.8# |





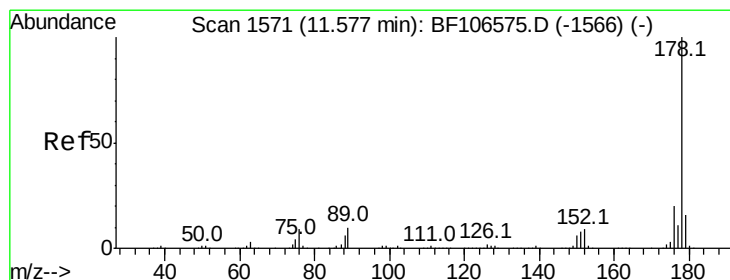
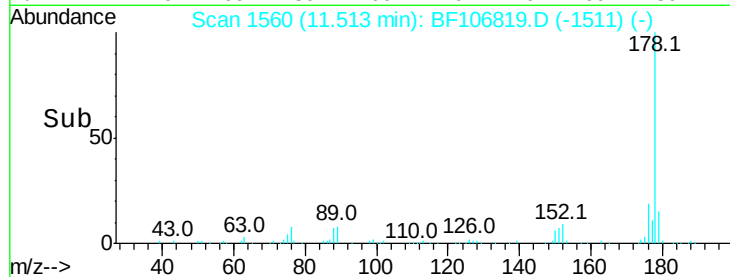
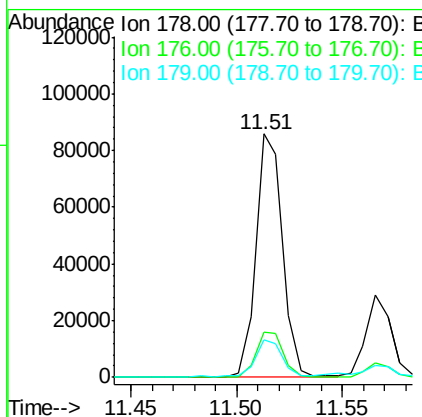
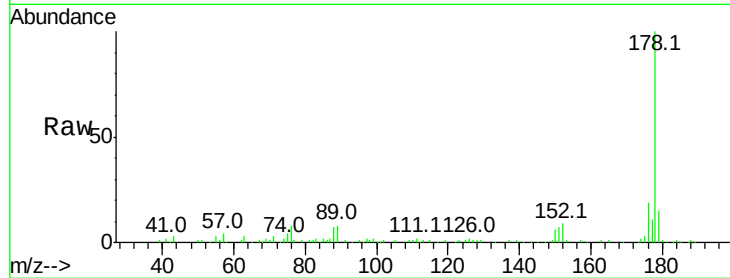
#70  
Phenanthrene  
Concen: 10.533 ng  
RT: 11.51 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-062218-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 15.8  | 23.8  |
| 179     | 15.5  | 13.0  | 19.6  |

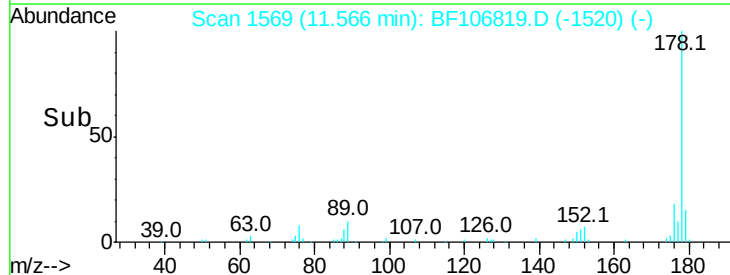
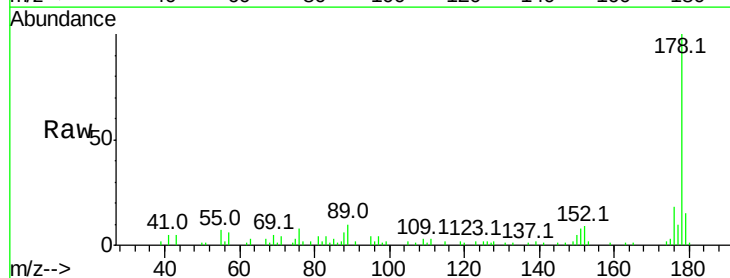
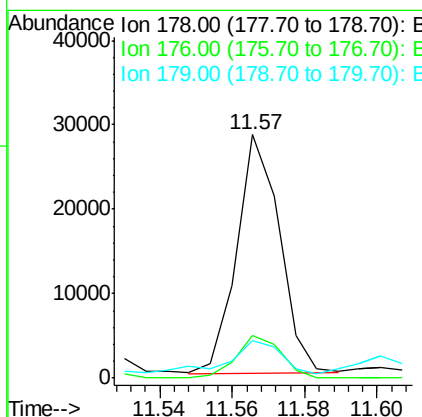
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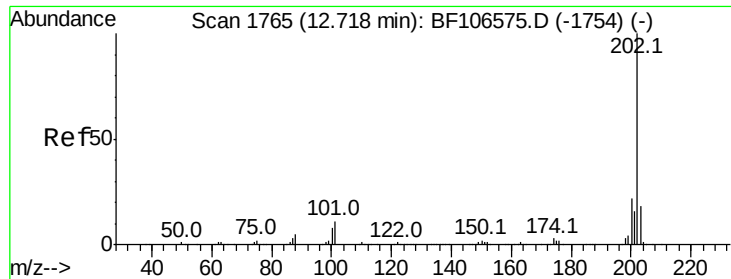


#71  
Anthracene  
Concen: 3.179 ng  
RT: 11.57 min Scan# 1569  
Delta R.T. -0.01 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.7  | 15.4  | 23.2  |
| 179     | 15.3  | 12.6  | 19.0  |







#74

Fluoranthene

Concen: 19.018 ng

RT: 12.71 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF106819.D

Acq: 26 Jun 2018 13:43

Instrument :

BNA\_F

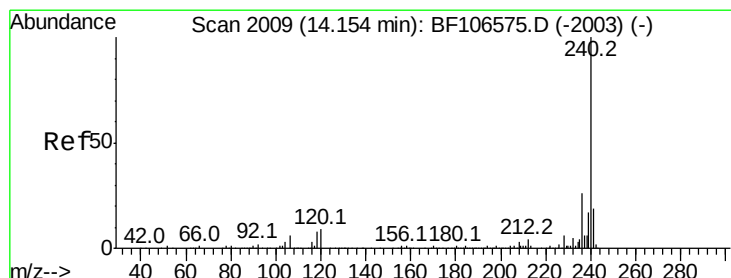
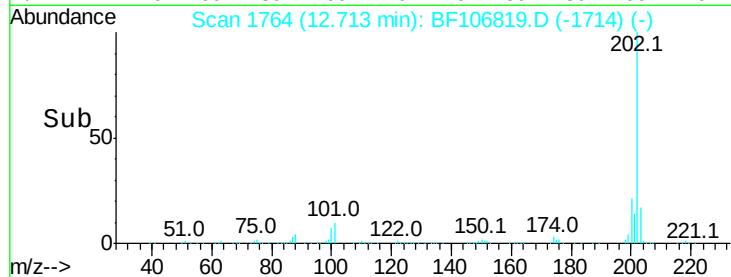
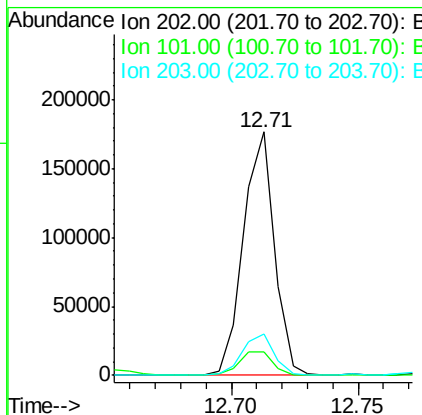
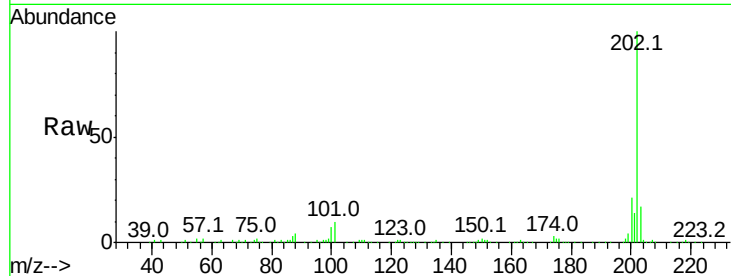
ClientSampleId :

HR-06-062218-C

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 150533 |       |       |
| 101     | 9.9   | 0.0    | 34.1  |       |
| 203     | 16.8  | 0.0    | 38.1  |       |

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#75

Chrysene-d12

Concen: 20.000 ng

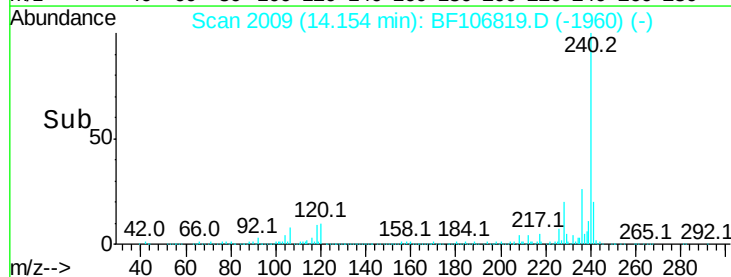
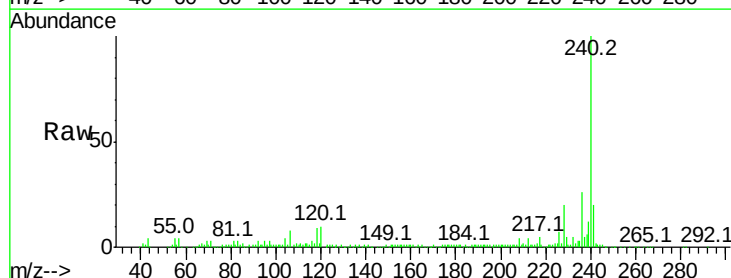
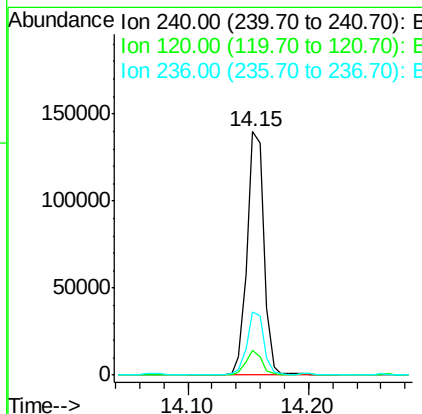
RT: 14.15 min Scan# 2009

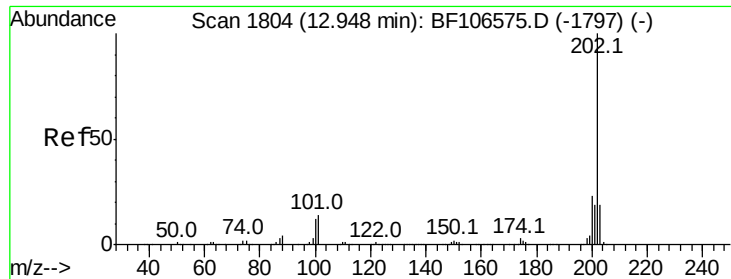
Delta R.T. -0.01 min

Lab File: BF106819.D

Acq: 26 Jun 2018 13:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 138529 |       |       |
| 120     | 10.4  | 9.5    | 14.3  |       |
| 236     | 25.8  | 20.7   | 31.1  |       |





#77

Pvrene

Concen: 15.468 ng

RT: 12.94 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF106819.D

Acq: 26 Jun 2018 13:43

Instrument :

BNA\_F

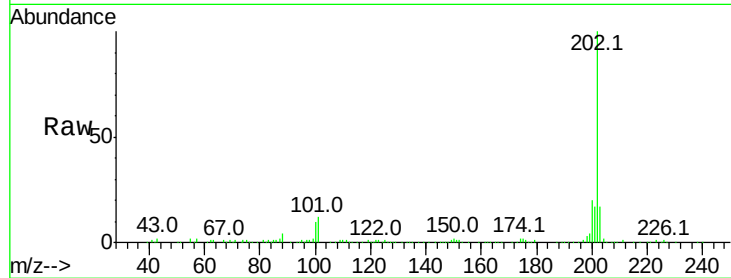
ClientSampleId :

HR-06-062218-C

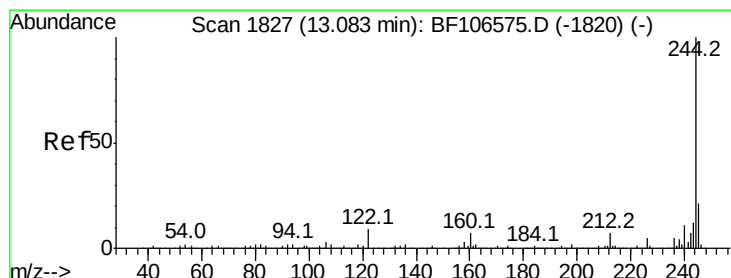
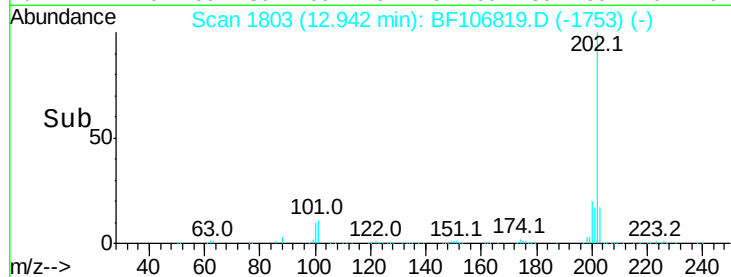
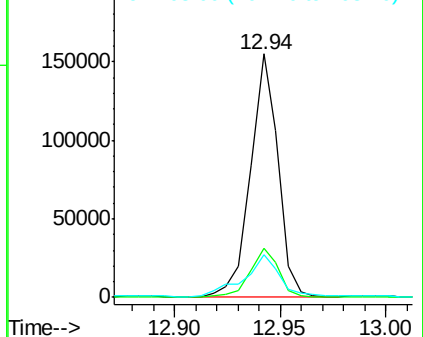
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 141298 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.1  | 17.4  | 26.2   |
| 203       | 17.3  | 14.3  | 21.5   |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 50.866 ng

RT: 13.08 min Scan# 1826

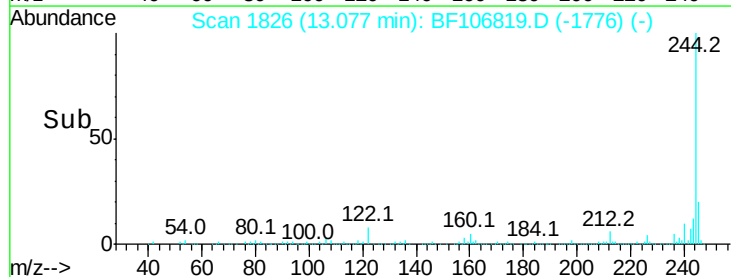
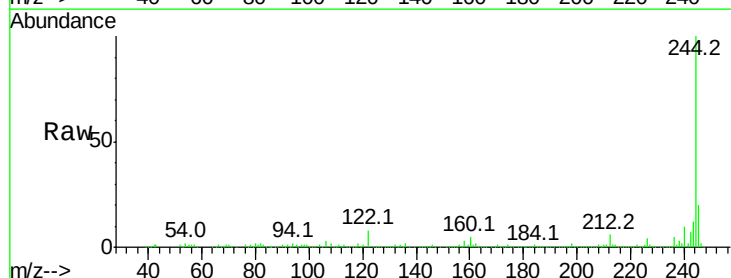
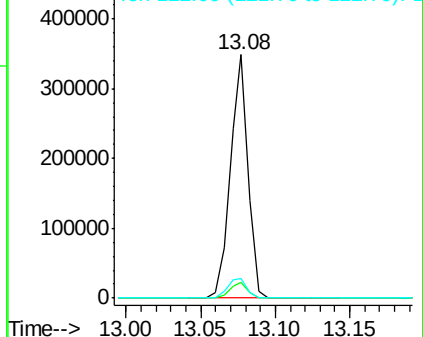
Delta R.T. -0.01 min

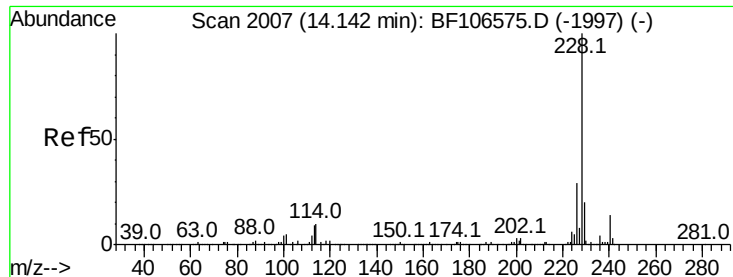
Lab File: BF106819.D

Acq: 26 Jun 2018 13:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 290896 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.3   | 5.4   | 8.0    |
| 122       | 8.2   | 11.0  | 16.4#  |

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





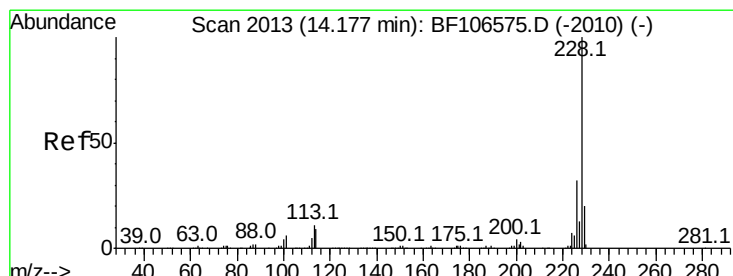
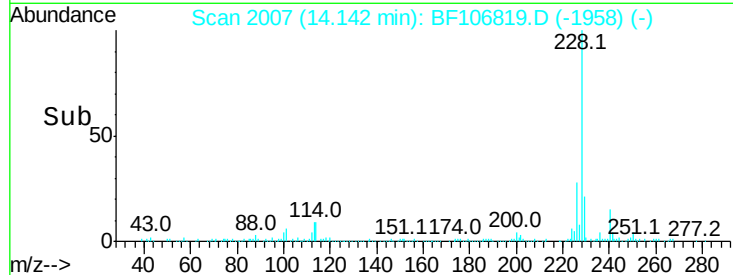
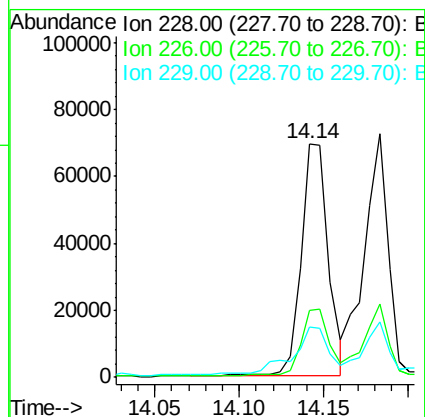
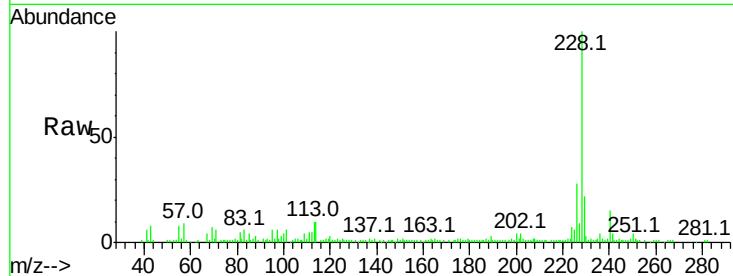
#80  
Benzo(a)anthracene  
Concen: 9.128 ng  
RT: 14.14 min Scan# 2007  
Delta R.T. -0.01 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-062218-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 22.6  | 33.8  |
| 229     | 21.7  | 15.8  | 23.6  |

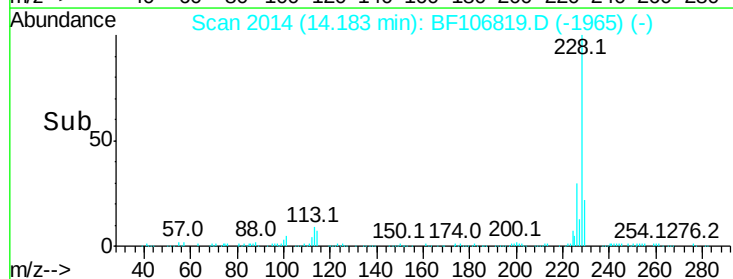
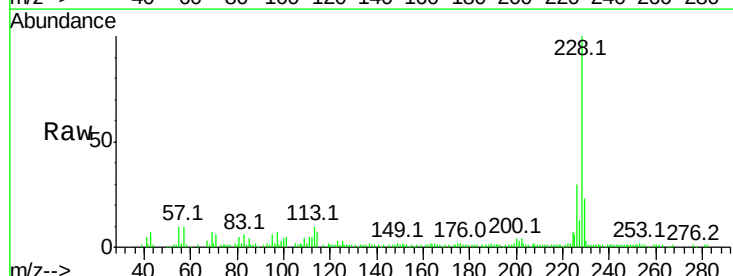
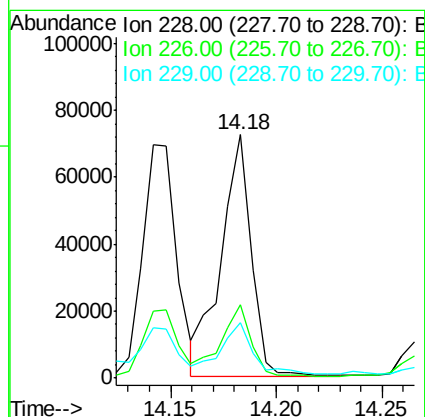
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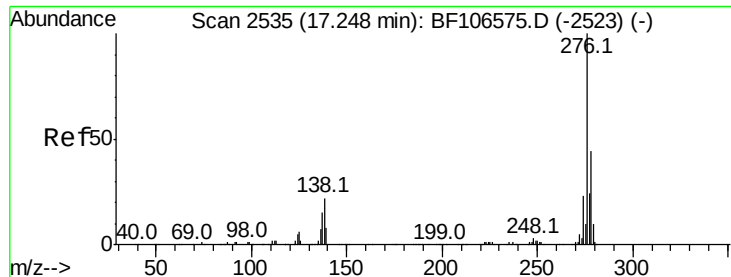
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#82  
Chrysene  
Concen: 9.285 ng  
RT: 14.18 min Scan# 2014  
Delta R.T. -0.01 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 25.0  | 37.6  |
| 229     | 22.7  | 16.2  | 24.4  |





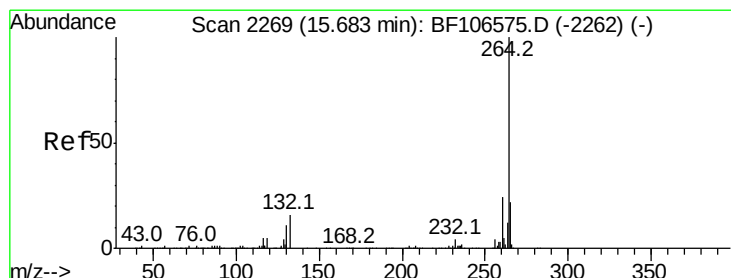
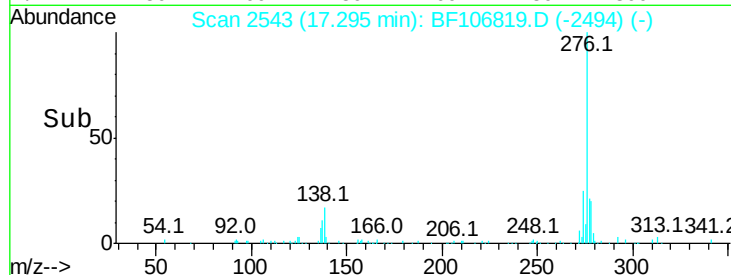
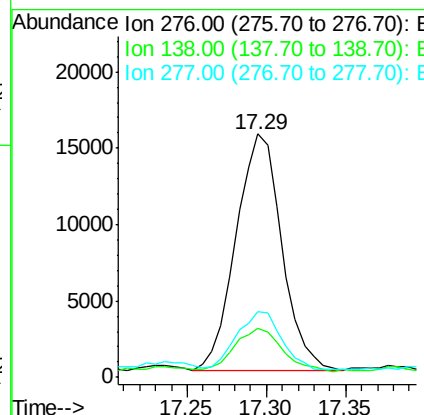
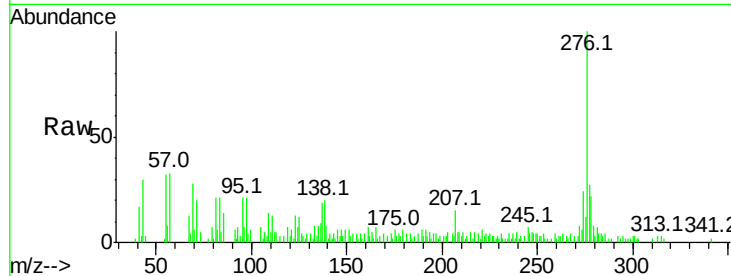
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.710 ng  
RT: 17.29 min Scan# 2543  
Delta R.T. -0.01 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-062218-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.6  | 25.0  | 37.6# |
| 277     | 23.9  | 20.1  | 30.1  |

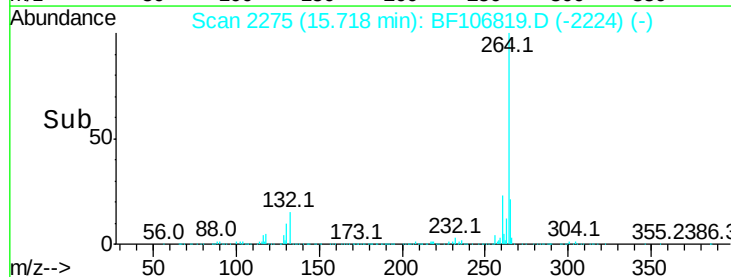
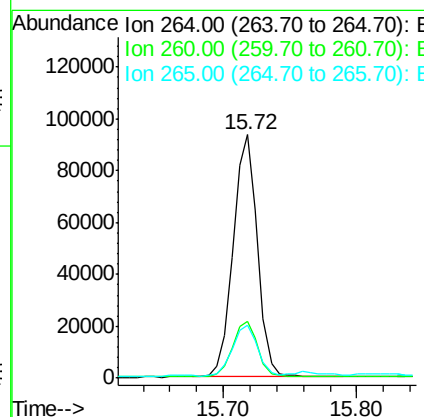
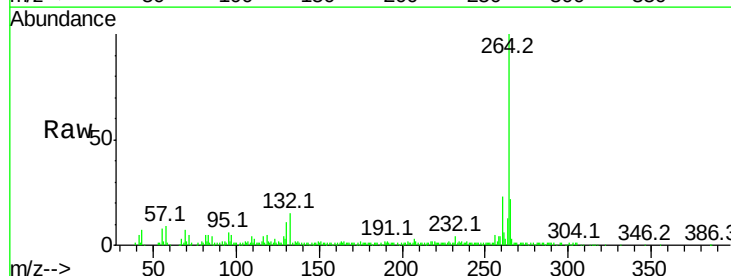
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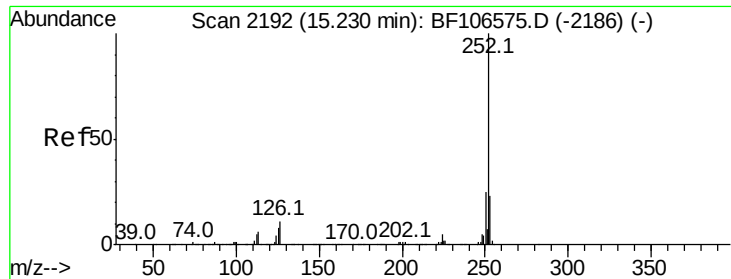
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.72 min Scan# 2275  
Delta R.T. -0.00 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.2  | 28.8  |
| 265     | 21.7  | 17.5  | 26.3  |





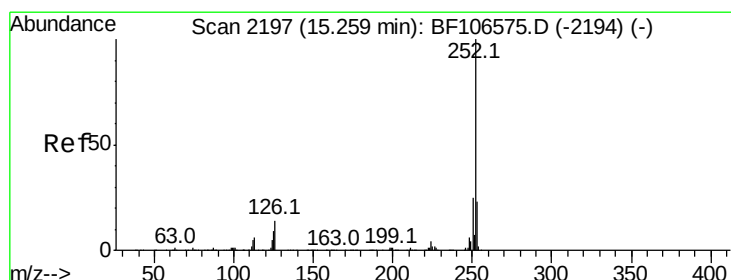
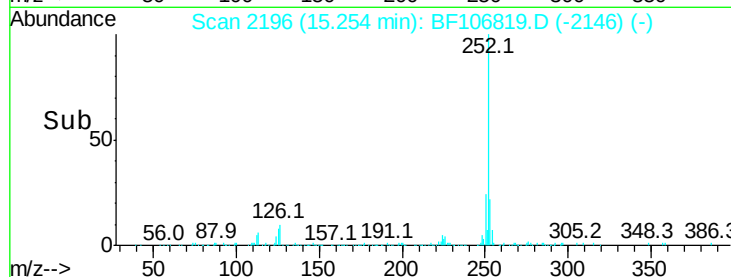
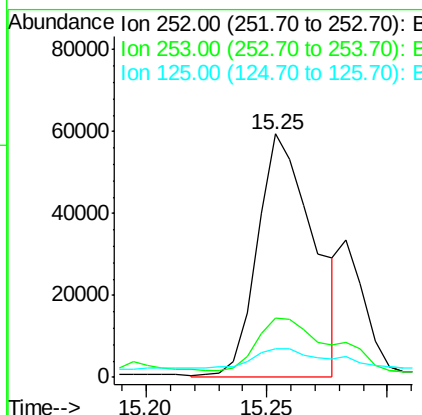
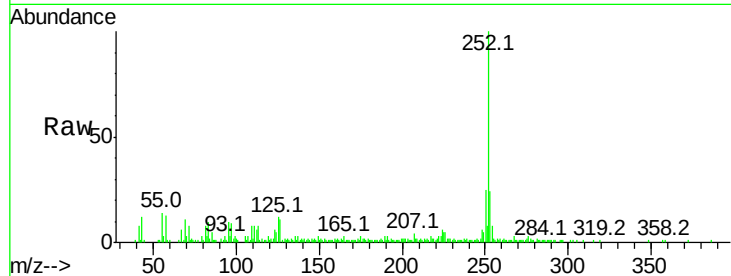
#87  
Benzo(b)fluoranthene  
Concen: 13.066 ng m  
RT: 15.25 min Scan# 2196  
Delta R.T. -0.01 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-062218-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 17.0  | 25.6  |
| 125     | 11.9  | 9.0   | 13.6  |

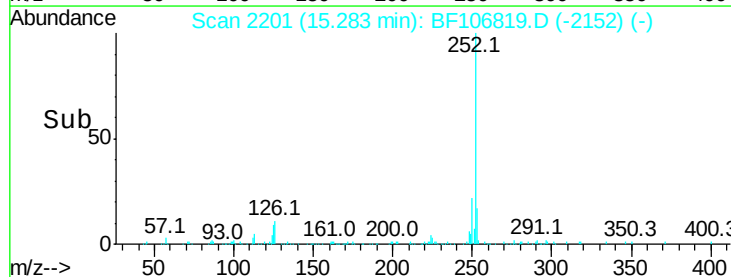
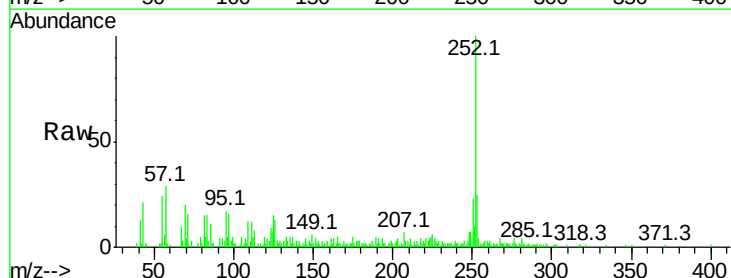
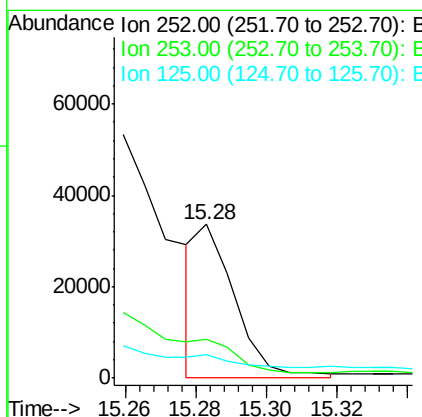
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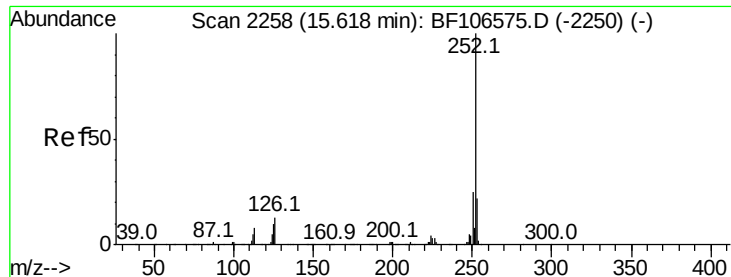
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#88  
Benzo(k)fluoranthene  
Concen: 3.567 ng m  
RT: 15.28 min Scan# 2201  
Delta R.T. -0.01 min  
Lab File: BF106819.D  
Acq: 26 Jun 2018 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.4  | 17.9  | 26.9  |
| 125     | 15.1  | 10.2  | 15.2  |





#89

Benzo(a)pyrene

Concen: 9.434 ng

RT: 15.65 min Scan# 2263

Delta R.T. -0.01 min

Lab File: BF106819.D

Acq: 26 Jun 2018 13:43

Instrument :

BNA\_F

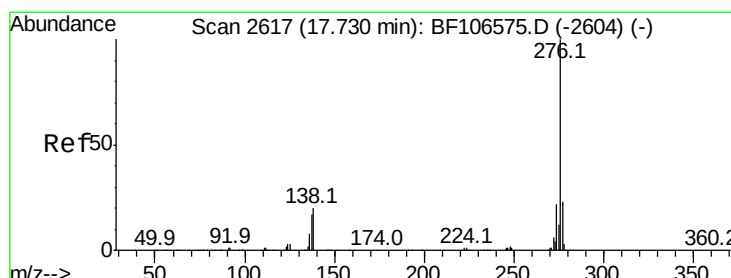
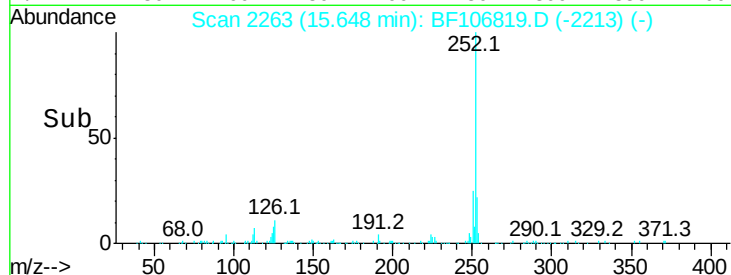
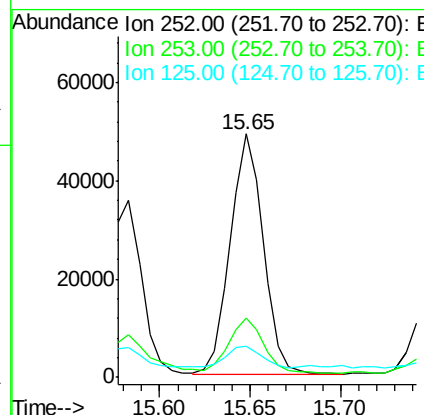
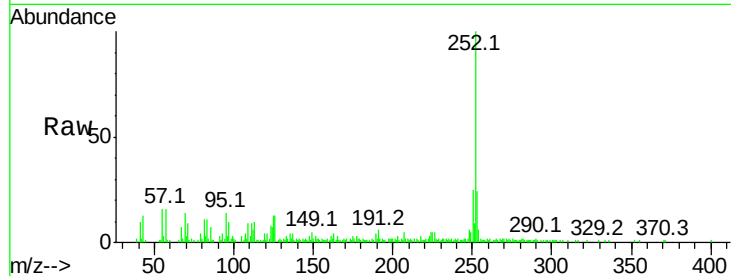
ClientSampleId :

HR-06-062218-C

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 62381 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 17.1  | 25.7  |
| 125       | 12.7  | 9.8   | 14.6  |

Manual Integrations  
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#91

Benzo(g,h,i)perylene

Concen: 5.913 ng

RT: 17.78 min Scan# 2625

Delta R.T. -0.01 min

Lab File: BF106819.D

Acq: 26 Jun 2018 13:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 32390 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.8  | 17.9  | 26.9  |
| 138       | 21.7  | 21.8  | 32.8# |

