

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091018\  
 Data File : BF108889.D  
 Acq On : 10 Sep 2018 13:36  
 Operator : JU/SJ  
 Sample : J4769-03 2X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-090718-B

Manual Integrations  
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Sohil  
 9/11/2018 9:25:55 AM

Quant Time: Sep 11 08:54:17 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF090518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 05 18:03:31 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.74  | 152  | 212692   | 20.00 | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.02  | 136  | 778112   | 20.00 | ng    | 0.00        |
| 38) Acenaphthene-d10        | 9.77  | 164  | 333667   | 20.00 | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.24 | 188  | 527759   | 20.00 | ng    | 0.00        |
| 75) Chrysene-d12            | 13.87 | 240  | 509317   | 20.00 | ng    | 0.00        |
| 86) Perylene-d12            | 15.28 | 264  | 548281   | 20.00 | ng    | 0.01        |
| System Monitoring Compounds |       |      |          |       |       |             |
| 5) 2-Fluorophenol           | 5.34  | 112  | 503756   | 39.24 | ng    | 0.00        |
| 7) Phenol-d6                | 6.36  | 99   | 641131   | 38.81 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 379796   | 30.55 | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 111157   | 34.90 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 701083   | 35.85 | ng    | 0.00        |
| 78) Terphenyl-d14           | 12.82 | 244  | 534730   | 24.48 | ng    | 0.00        |
| Target Compounds            |       |      |          |       |       |             |
| 49) Dimethylphthalate       | 9.48  | 163  | 160177   | 6.863 | ng    | Qvalue # 99 |
| 74) Fluoranthene            | 12.45 | 202  | 77432m   | 3.103 | ng    |             |
| 77) Pyrene                  | 12.68 | 202  | 87791    | 2.240 | ng    | 98          |
| 87) Benzo(b)fluoranthene    | 14.88 | 252  | 73328m   | 2.460 | ng    |             |

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

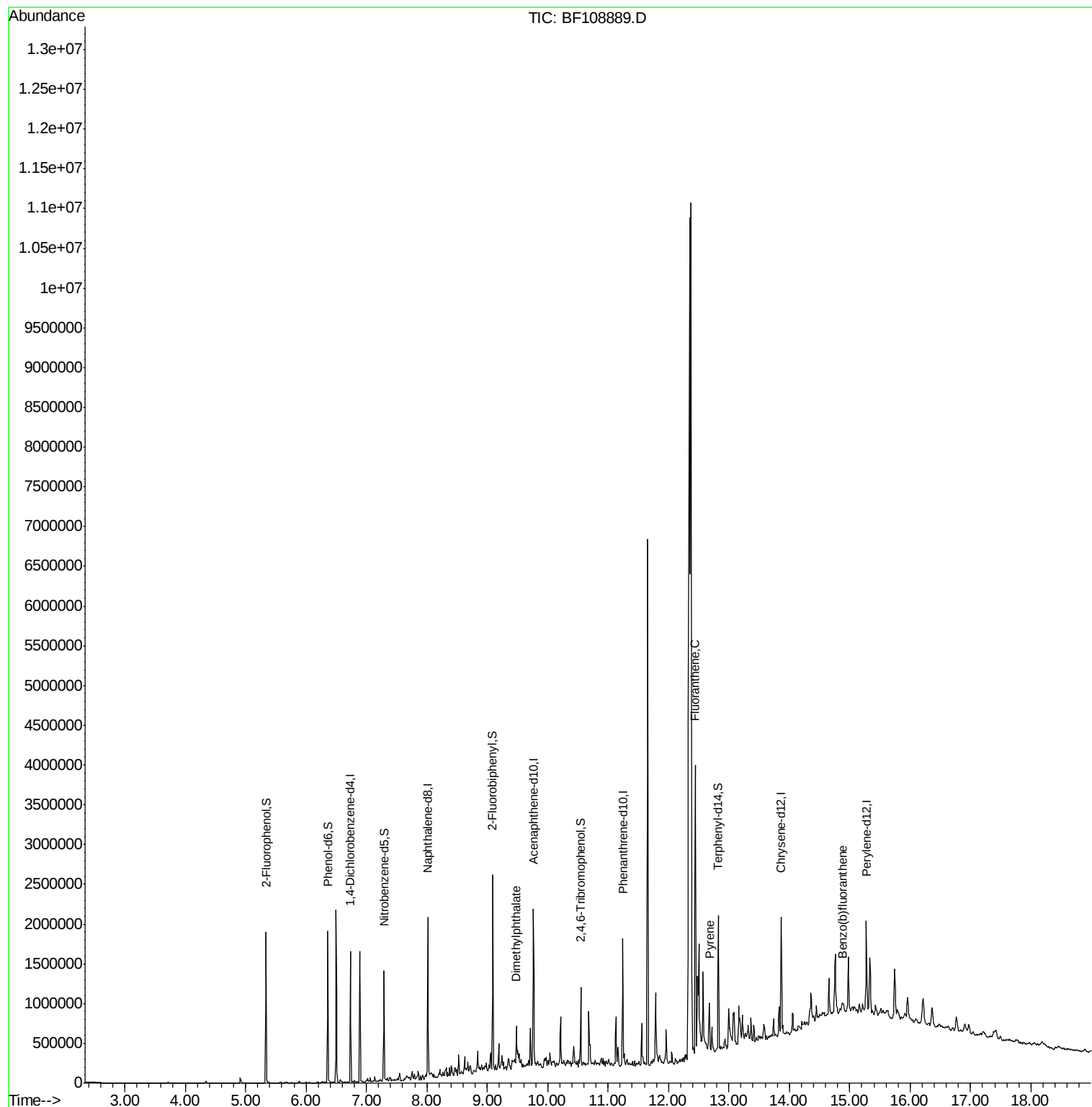
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091018\  
Data File : BF108889.D  
Acq On : 10 Sep 2018 13:36  
Operator : JU/SJ  
Sample : J4769-03 2X  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-090718-B

Manual Integrations  
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9/11/2018 9:25:55 AM

Quant Time: Sep 11 08:54:17 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF090518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 05 18:03:31 2018  
Response via : Initial Calibration





#1

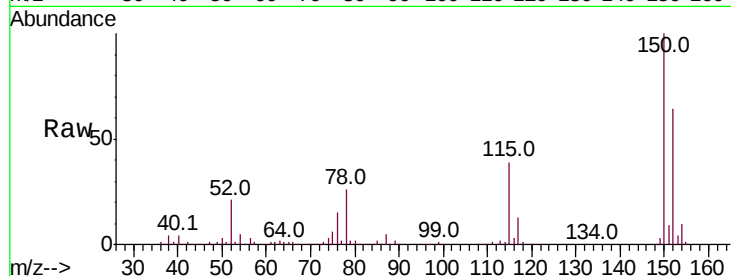
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.74 min Scan# 748  
Delta R.T. -0.00 min  
Lab File: BF108889.D  
Acq: 10 Sep 2018 13:36

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-090718-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.5 | 124.6 | 186.8 |
| 115     | 61.0  | 50.1  | 75.1  |

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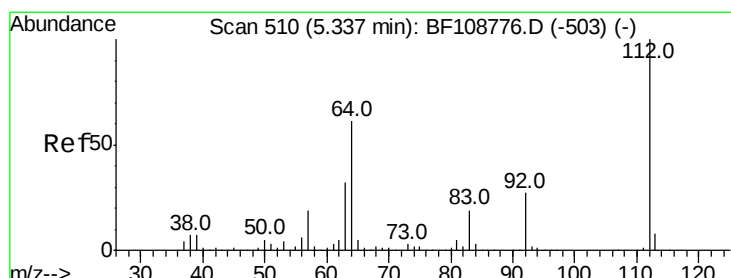
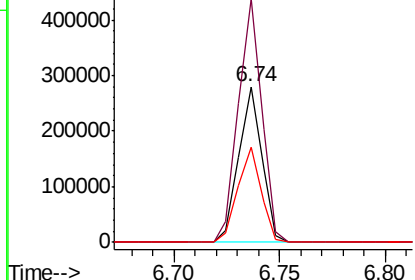
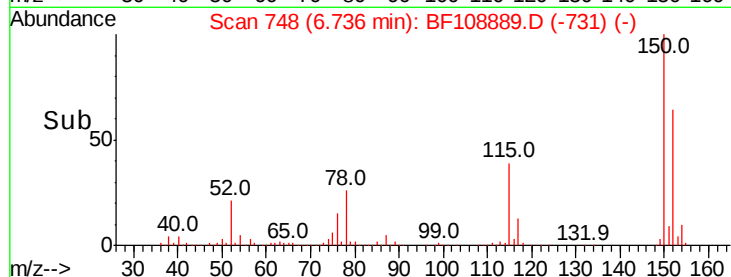


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

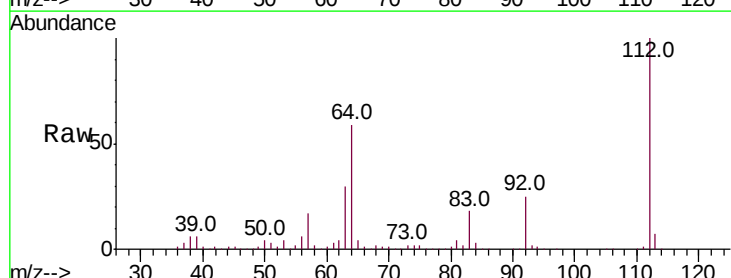
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 39.238 ng  
RT: 5.34 min Scan# 510  
Delta R.T. 0.00 min  
Lab File: BF108889.D  
Acq: 10 Sep 2018 13:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.7  | 47.9  | 71.9  |
| 63      | 29.8  | 23.7  | 35.5  |

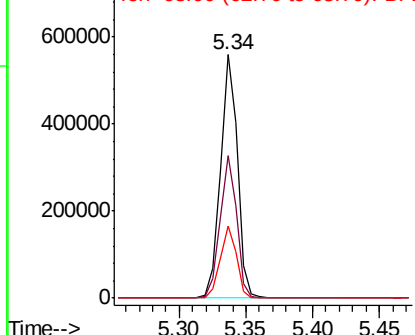
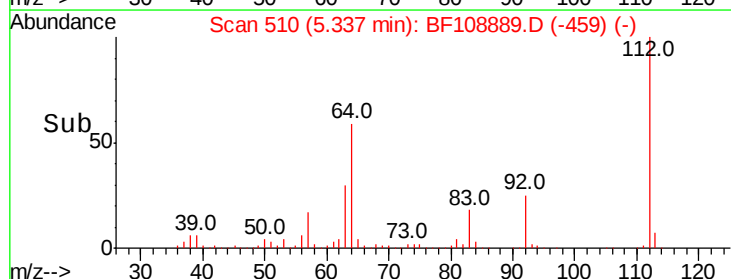


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 38.812 ng

RT: 6.36 min Scan# 684

Delta R.T. -0.01 min

Lab File: BF108889.D

Acq: 10 Sep 2018 13:36

Instrument :

BNA\_F

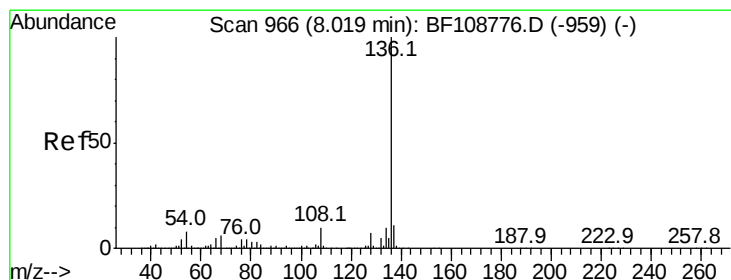
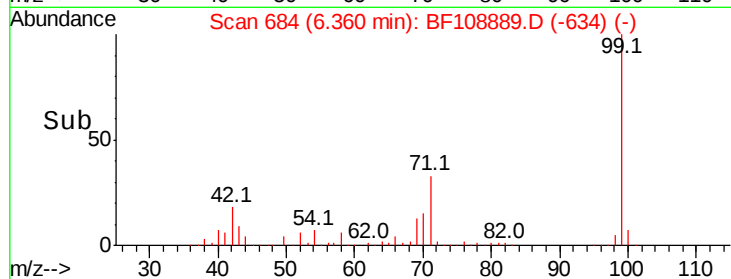
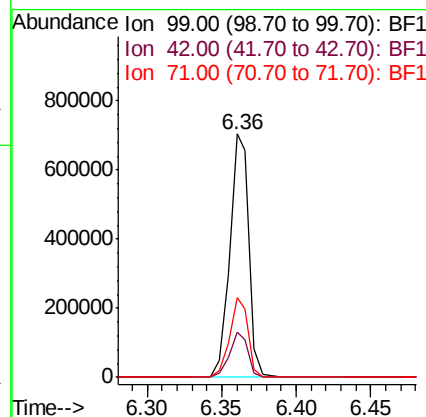
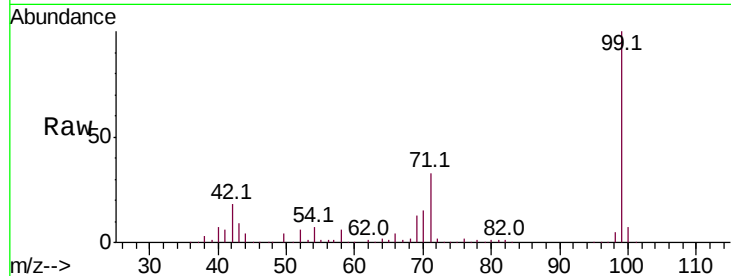
ClientSampleId :

HR-05-090718-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 641131 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.4  | 14.5  | 21.7   |
| 71        | 32.6  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

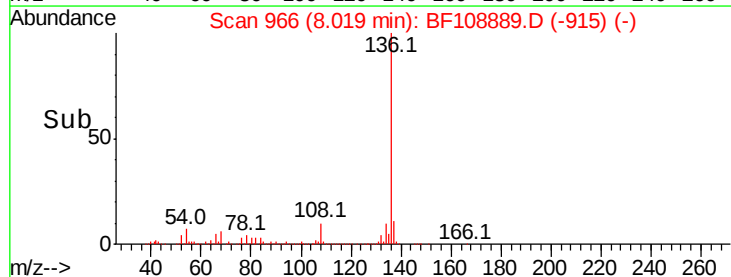
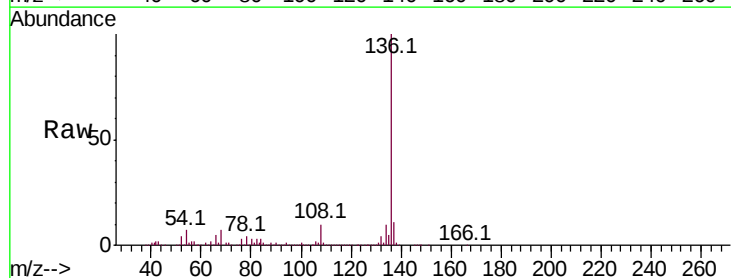
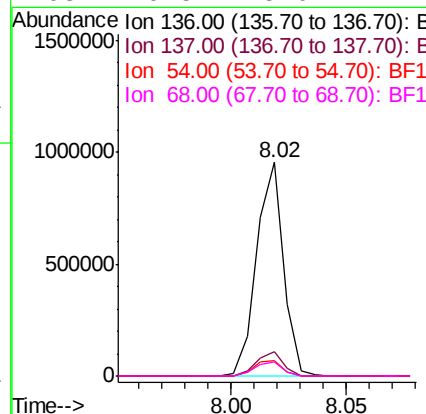
RT: 8.02 min Scan# 966

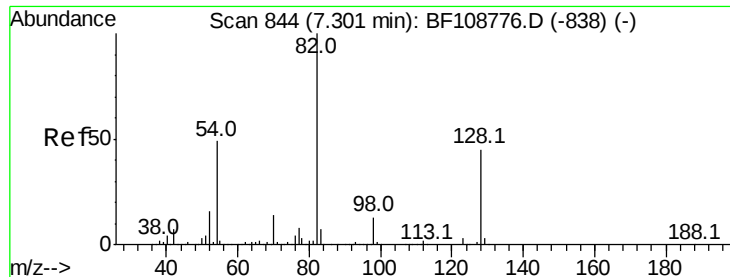
Delta R.T. -0.00 min

Lab File: BF108889.D

Acq: 10 Sep 2018 13:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 778112 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.2  | 8.9   | 13.3   |
| 54        | 7.4   | 6.6   | 9.8    |
| 68        | 6.5   | 5.0   | 7.4    |





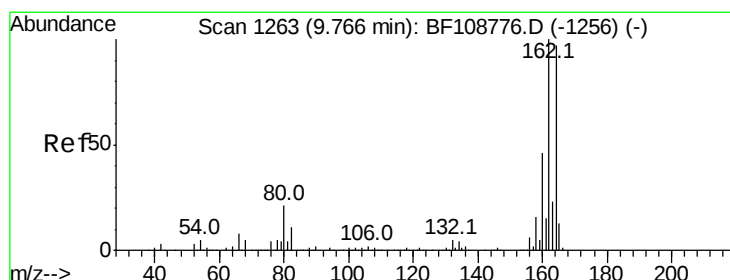
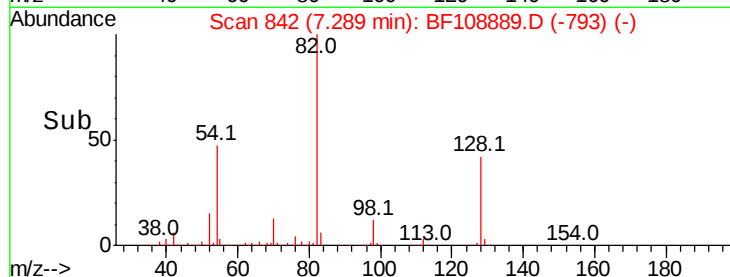
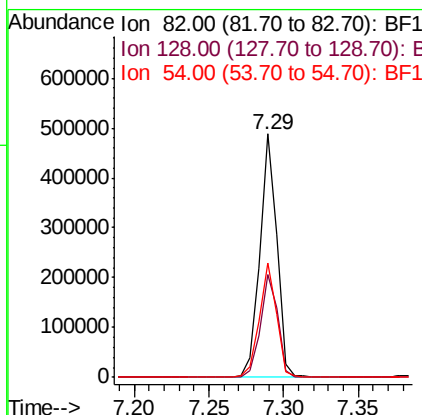
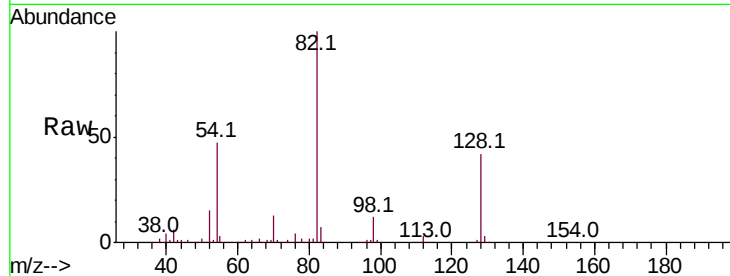
#23  
 Nitrobenzene-d5  
 Concen: 30.546 ng  
 RT: 7.29 min Scan# 842  
 Delta R.T. -0.01 min  
 Lab File: BF108889.D  
 Acq: 10 Sep 2018 13:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-090718-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.1  | 36.1  | 54.1  |
| 54      | 47.1  | 41.4  | 62.2  |

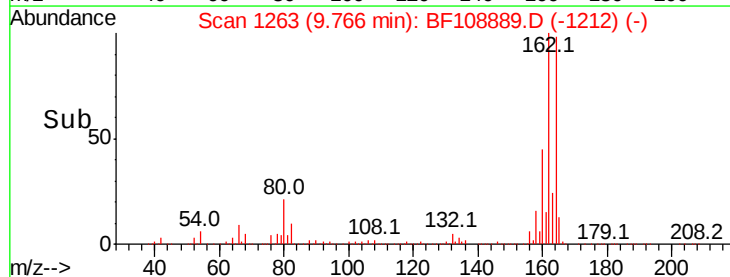
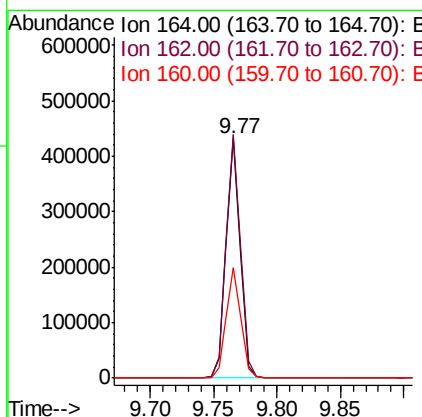
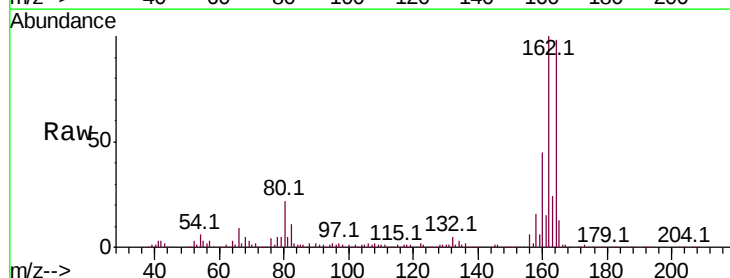
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.77 min Scan# 1263  
 Delta R.T. -0.00 min  
 Lab File: BF108889.D  
 Acq: 10 Sep 2018 13:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.7 | 86.1  | 129.1 |
| 160     | 46.0  | 38.3  | 57.5  |





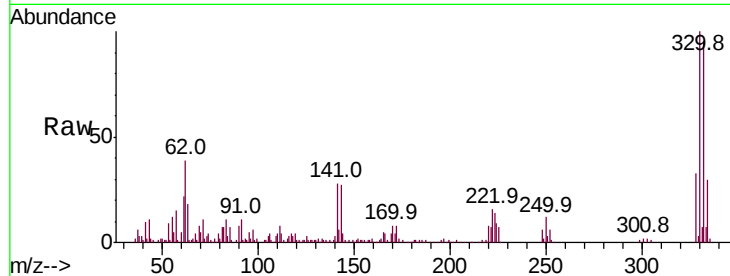
#41  
 2,4,6-Tribromophenol  
 Concen: 34.896 ng  
 RT: 10.55 min Scan# 1396  
 Delta R.T. -0.01 min  
 Lab File: BF108889.D  
 Acq: 10 Sep 2018 13:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-090718-B

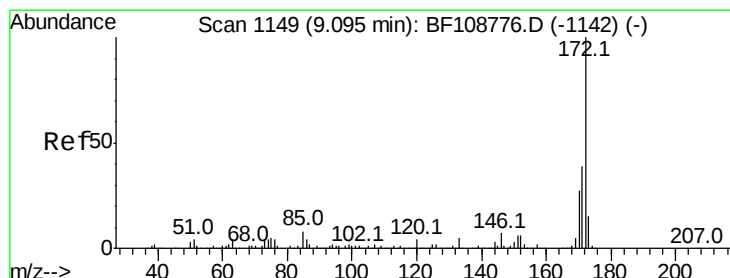
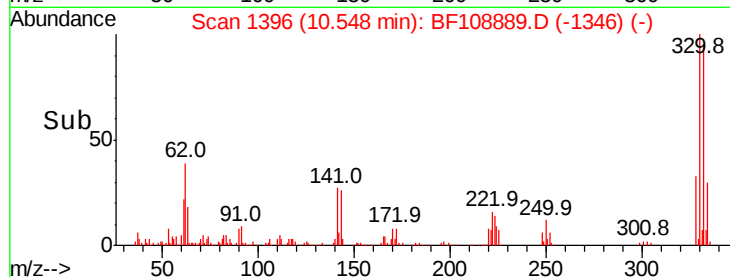
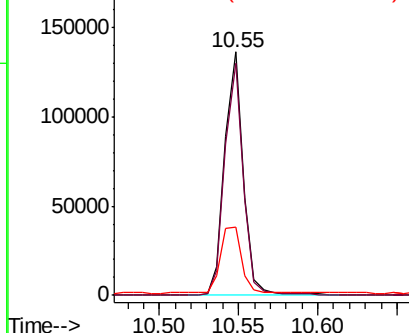
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 111157 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 94.7  | 77.0  | 115.6  |
| 141       | 31.5  | 29.9  | 44.9   |

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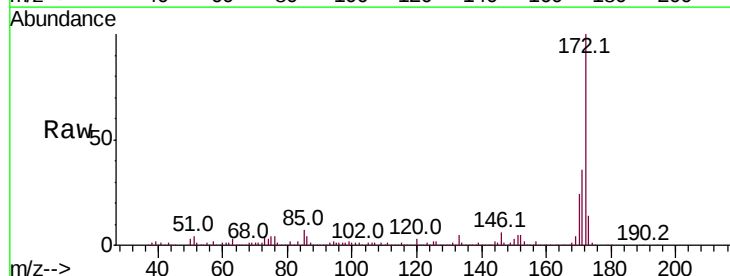


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

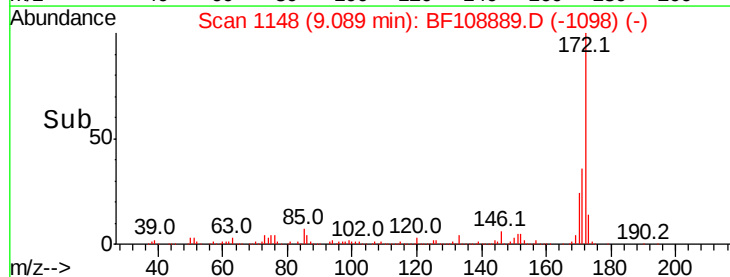
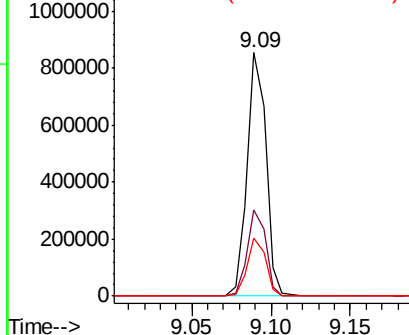


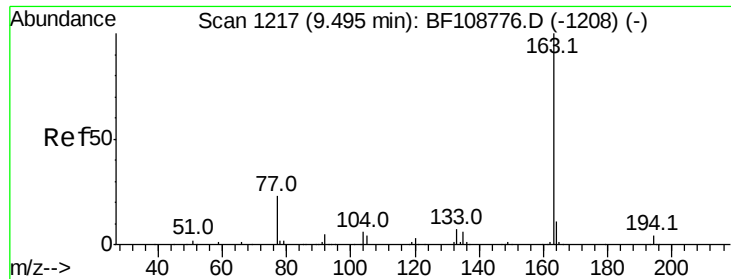
#44  
 2-Fluorobiphenyl  
 Concen: 35.845 ng  
 RT: 9.09 min Scan# 1148  
 Delta R.T. -0.01 min  
 Lab File: BF108889.D  
 Acq: 10 Sep 2018 13:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 701083 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.6  | 29.7  | 44.5   |
| 170       | 23.7  | 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





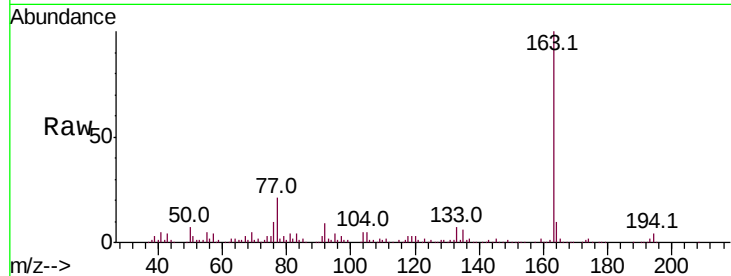
#49  
Dimethylphthalate  
Concen: 6.863 ng  
RT: 9.48 min Scan# 1215  
Delta R.T. -0.01 min  
Lab File: BF108889.D  
Acq: 10 Sep 2018 13:36

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-090718-B

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 160177 |       |       |
| 194     | 4.3   | 2.7    | 4.1#  |       |
| 164     | 10.3  | 8.2    | 12.2  |       |

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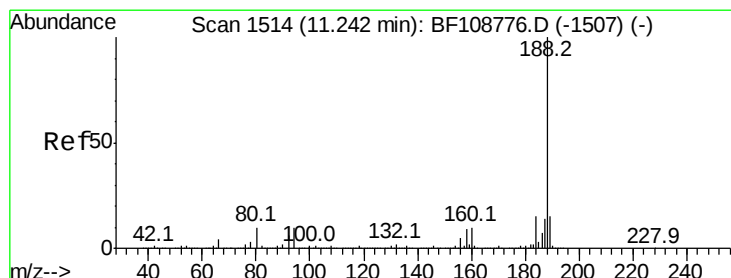
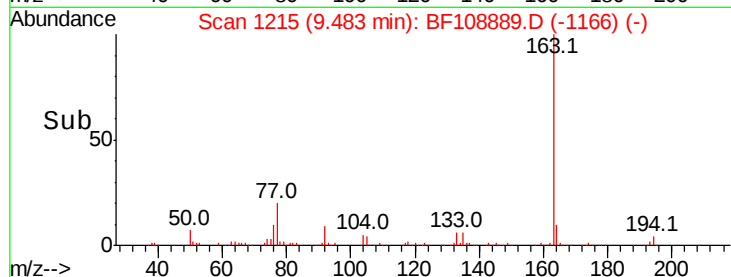
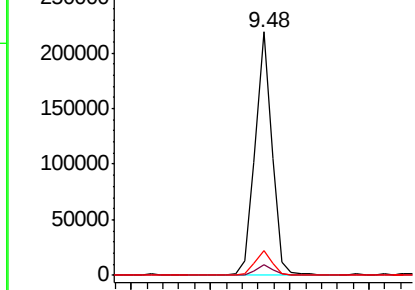


Abundance

Ion 163.00 (162.70 to 163.70): E

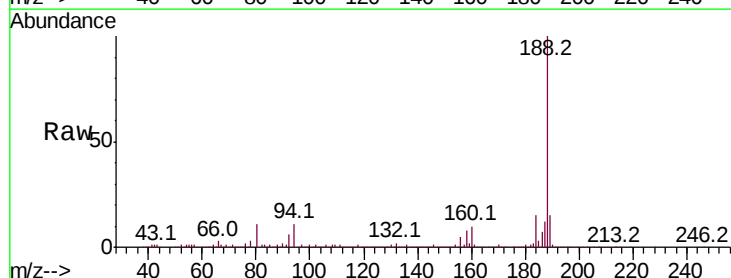
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1514  
Delta R.T. -0.00 min  
Lab File: BF108889.D  
Acq: 10 Sep 2018 13:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 527759 |       |       |
| 94      | 10.6  | 8.5    | 12.7  |       |
| 80      | 10.7  | 9.2    | 13.8  |       |

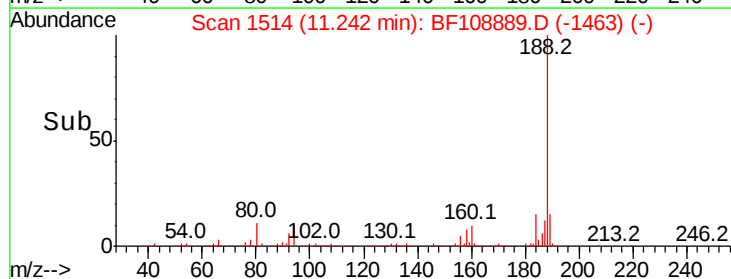
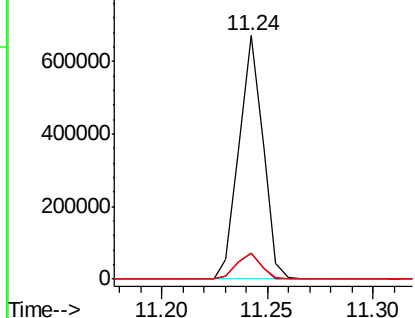


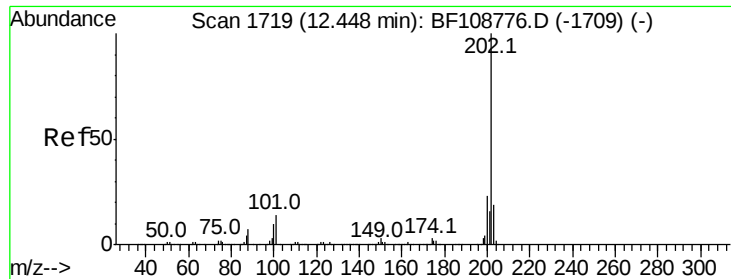
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#74

Fluoranthene

Concen: 3.103 ng/mL

RT: 12.45 min Scan# 1719

Delta R.T. -0.00 min

Lab File: BF108889.D

Acq: 10 Sep 2018 13:36

Instrument :

BNA\_F

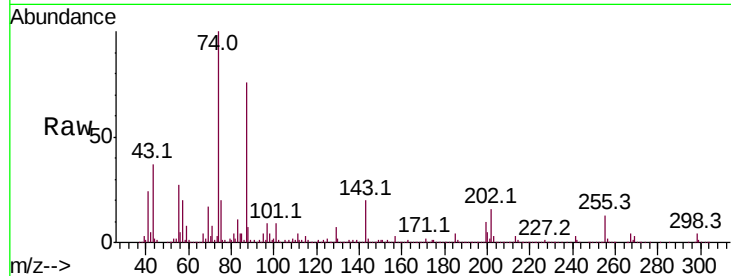
ClientSampleId :

HR-05-090718-B

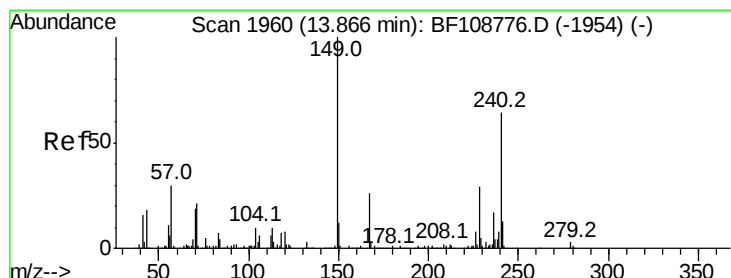
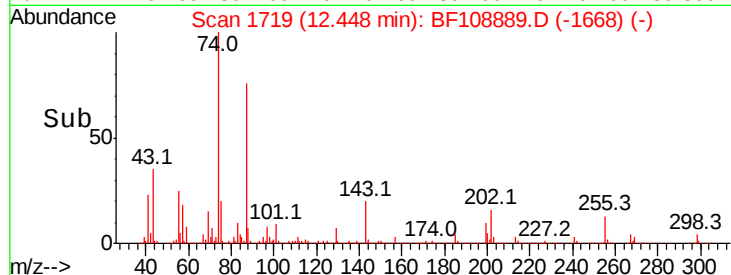
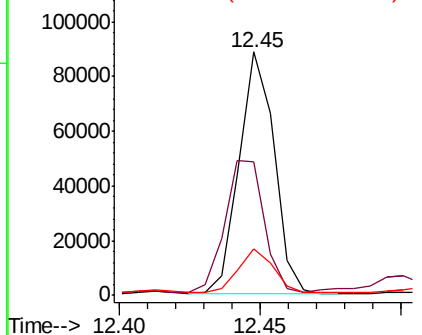
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 77432 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 54.6  | 0.0   | 34.1# |
| 203       | 18.9  | 0.0   | 38.1  |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng/mL

RT: 13.87 min Scan# 1960

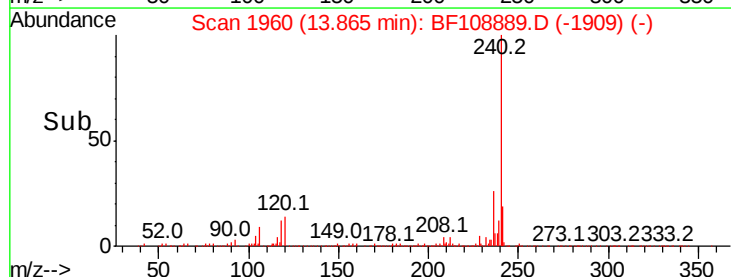
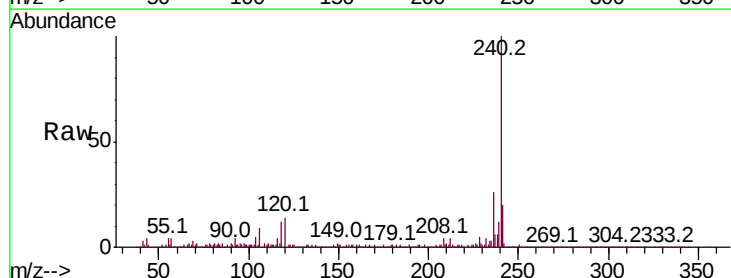
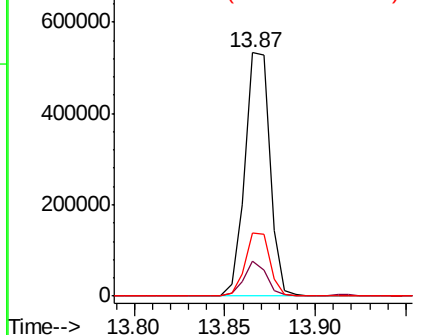
Delta R.T. -0.00 min

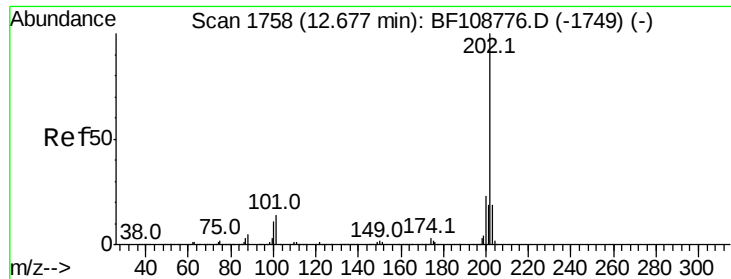
Lab File: BF108889.D

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 509317 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 14.2  | 9.5   | 14.3   |
| 236       | 25.9  | 20.7  | 31.1   |

Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 2.240 ng

RT: 12.68 min Scan# 1758

Delta R.T. -0.00 min

Lab File: BF108889.D

Acq: 10 Sep 2018 13:36

Instrument :

BNA\_F

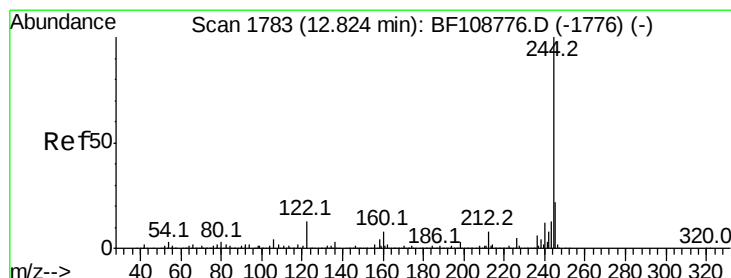
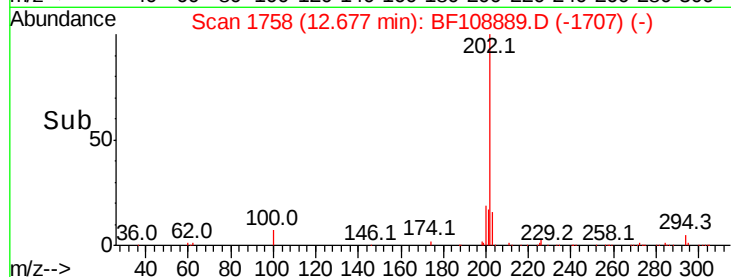
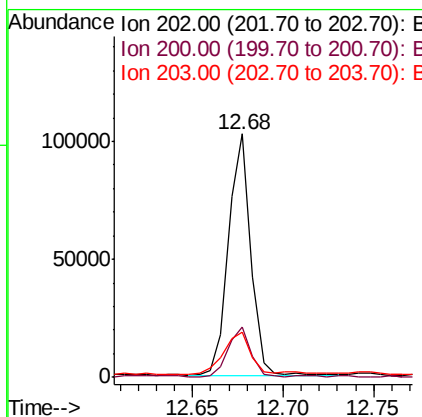
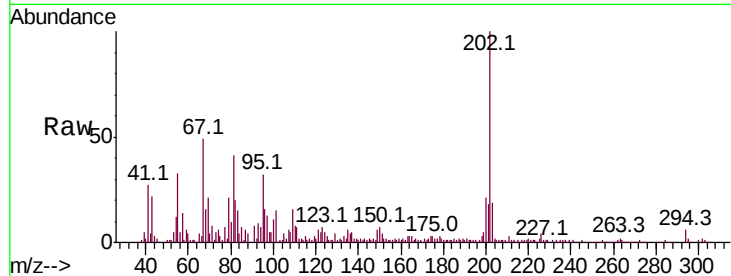
ClientSampleId :

HR-05-090718-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 87791 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.9  | 17.4  | 26.2  |
| 203       | 18.5  | 14.3  | 21.5  |

Manual Integrations  
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Sohil  
9/11/2018 9:25:55 AM



#78

Terphenyl-d14

Concen: 24.483 ng

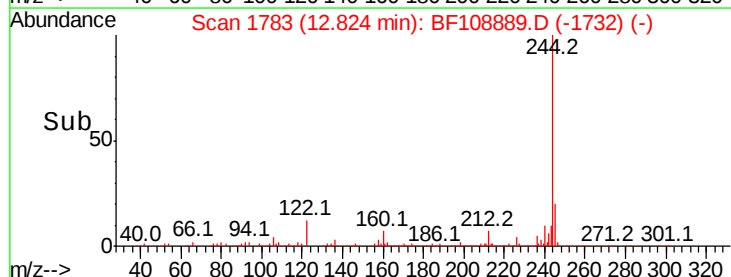
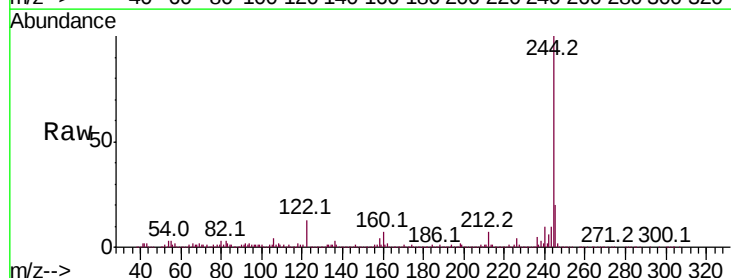
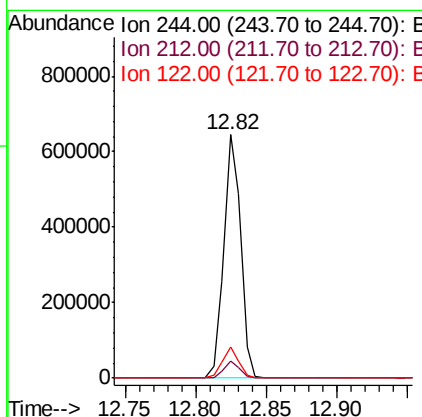
RT: 12.82 min Scan# 1783

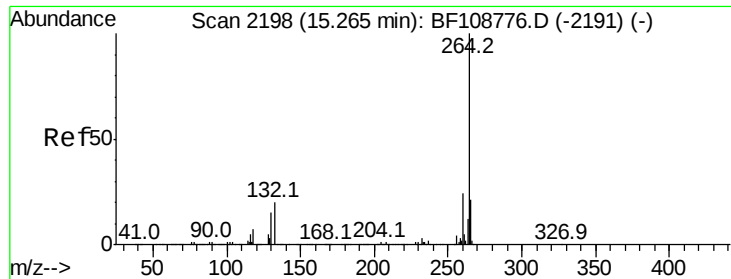
Delta R.T. 0.00 min

Lab File: BF108889.D

Acq: 10 Sep 2018 13:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 534730 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.8   | 5.4   | 8.0    |
| 122       | 12.6  | 11.0  | 16.4   |





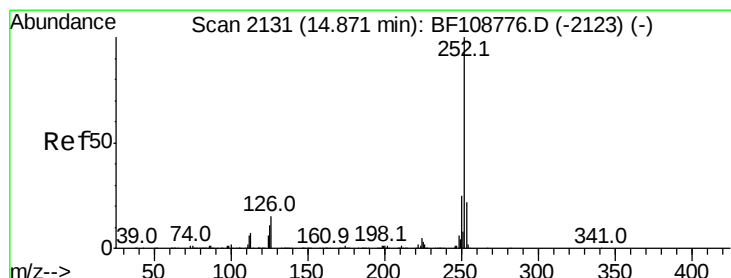
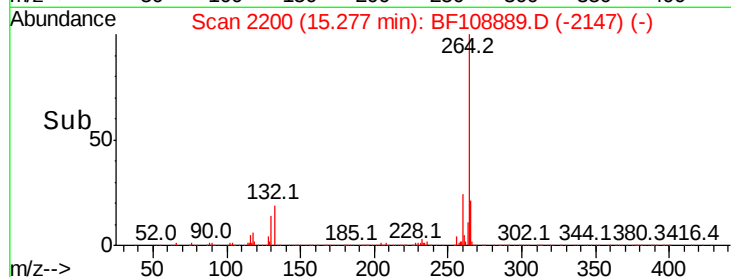
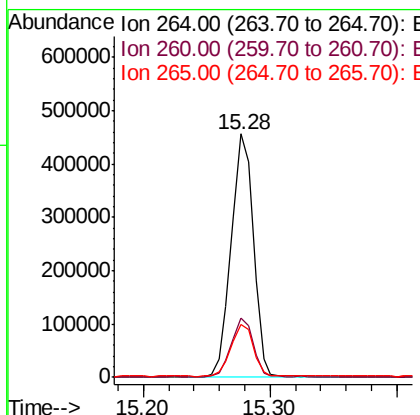
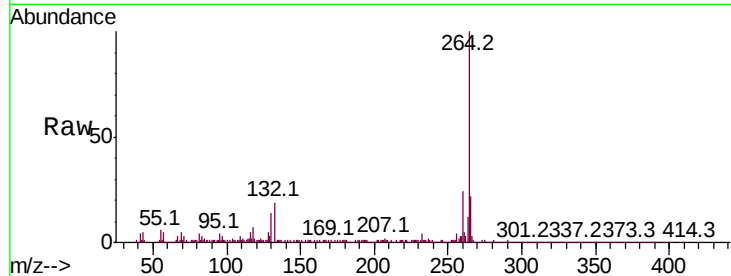
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.28 min Scan# 2200  
Delta R.T. 0.01 min  
Lab File: BF108889.D  
Acq: 10 Sep 2018 13:36

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-090718-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.2  | 28.8  |
| 265     | 21.6  | 17.5  | 26.3  |

Manual Integrations  
APPROVED

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9/11/2018 9:25:55 AM



#87  
Benzo(b)fluoranthene  
Concen: 2.460 ng m  
RT: 14.88 min Scan# 2132  
Delta R.T. 0.01 min  
Lab File: BF108889.D  
Acq: 10 Sep 2018 13:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.7  | 17.0  | 25.6# |
| 125     | 22.5  | 9.0   | 13.6# |

