

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092418\  
 Data File : BF109267.D  
 Acq On : 24 Sep 2018 15:08  
 Operator : JU/SJ  
 Sample : J4770-03 2X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-092118-B

Manual Integrations  
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Sohil  
 9/26/2018 11:34:28 AM

Quant Time: Sep 25 09:15:36 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 22 13:32:18 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.70  | 152  | 123046   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.99  | 136  | 480503   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.73  | 164  | 218603   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.21 | 188  | 352683   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.84 | 240  | 307423   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.24 | 264  | 277400   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.31  | 112  | 279842   | 37.46 | ng    | 0.00     |
| 7) Phenol-d6                | 6.34  | 99   | 361478   | 37.92 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 217231   | 26.69 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 78980    | 36.65 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 410084   | 28.29 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.79 | 244  | 293594   | 23.44 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 49) Dimethylphthalate       | 9.46  | 163  | 116886   | 7.351 | ng    | 99       |
| 74) Fluoranthene            | 12.42 | 202  | 48754    | 2.591 | ng    | 97       |
| 77) Pyrene                  | 12.64 | 202  | 47002    | 2.133 | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.84 | 252  | 31041m   | 2.036 | ng    |          |

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

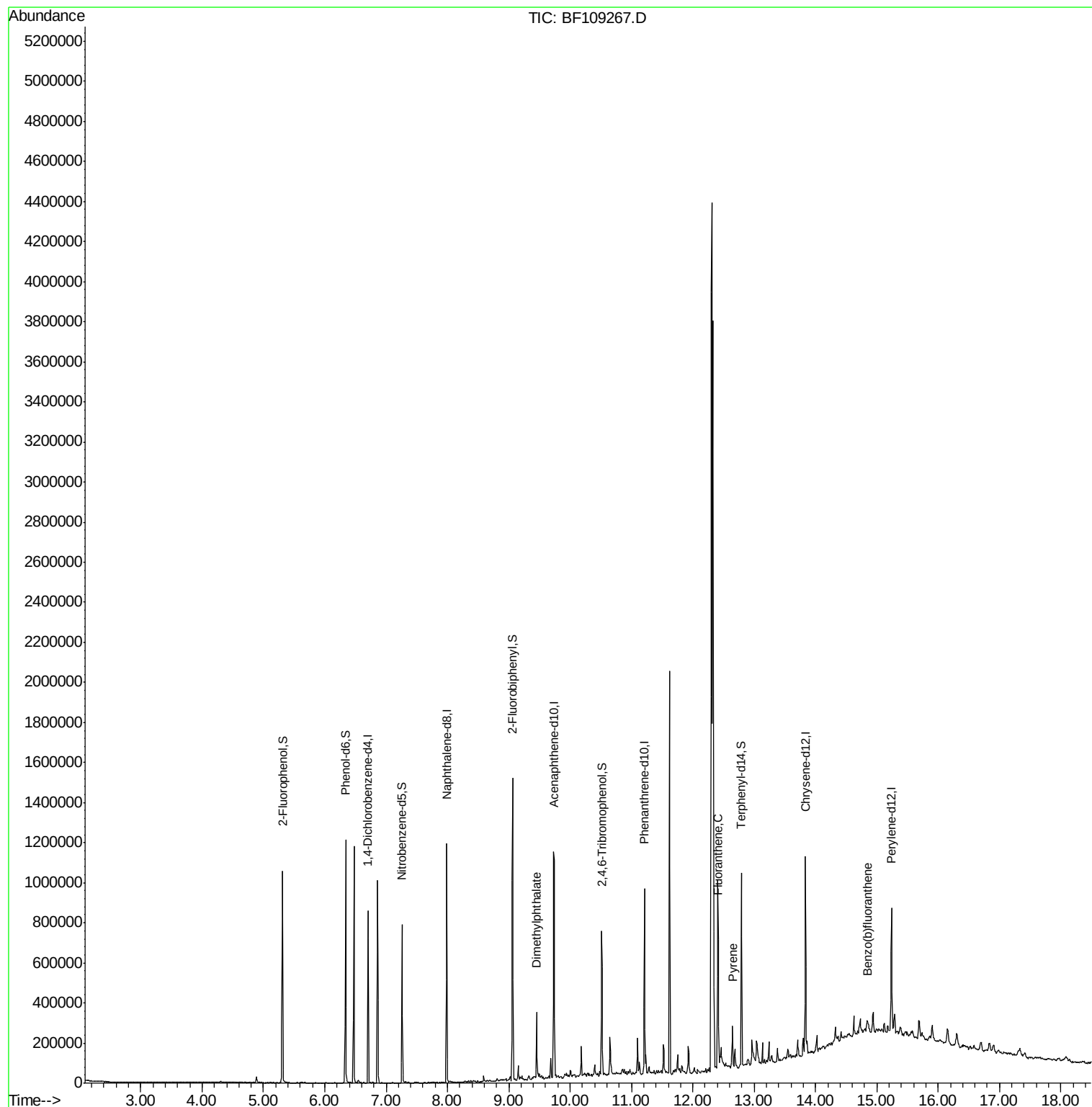
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092418\  
Data File : BF109267.D  
Acq On : 24 Sep 2018 15:08  
Operator : JU/SJ  
Sample : J4770-03 2X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

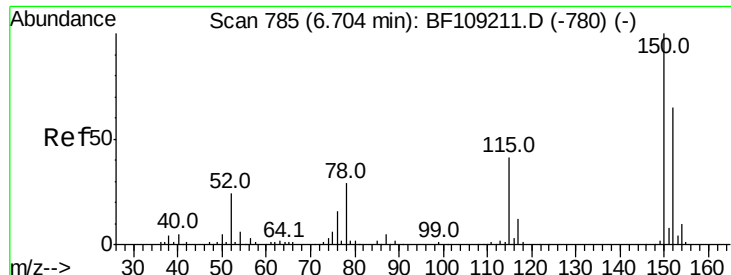
Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-092118-B

Manual Integrations  
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9/26/2018 11:34:28 AM

Quant Time: Sep 25 09:15:36 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 22 13:32:18 2018  
Response via : Initial Calibration





#1

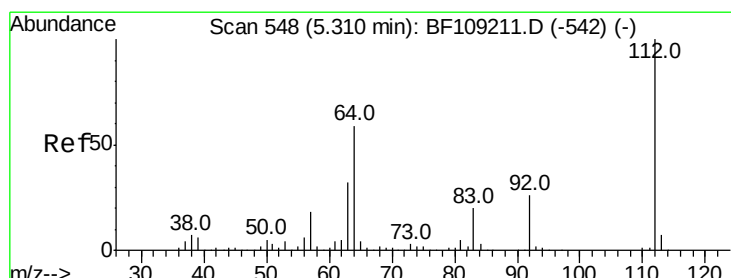
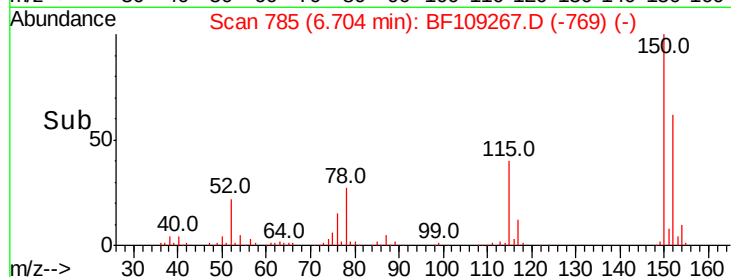
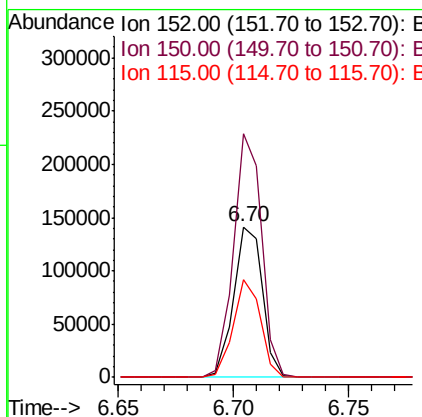
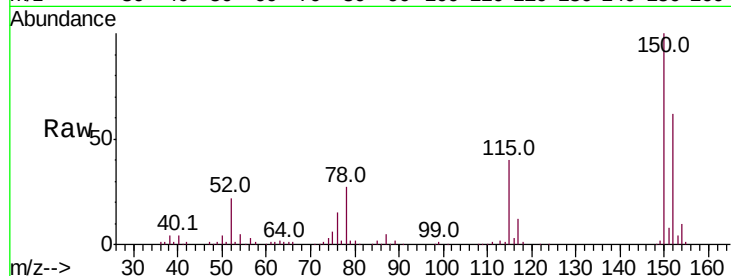
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF109267.D  
Acq: 24 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-092118-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.0 | 124.6 | 186.8 |
| 115     | 64.6  | 50.1  | 75.1  |

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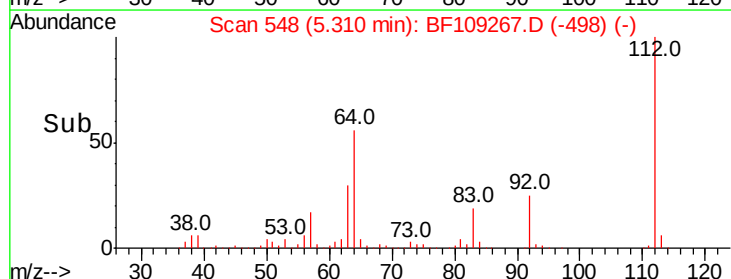
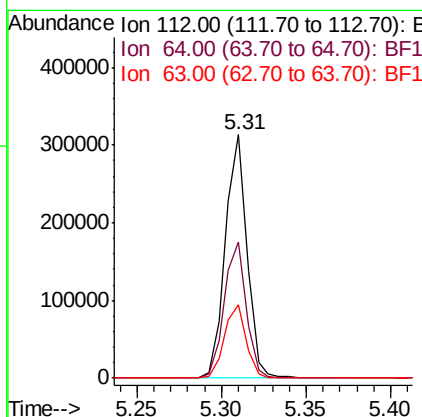
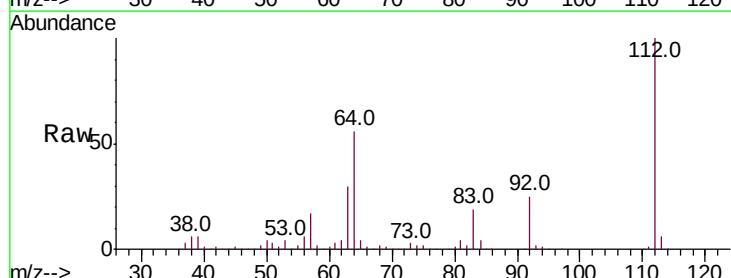
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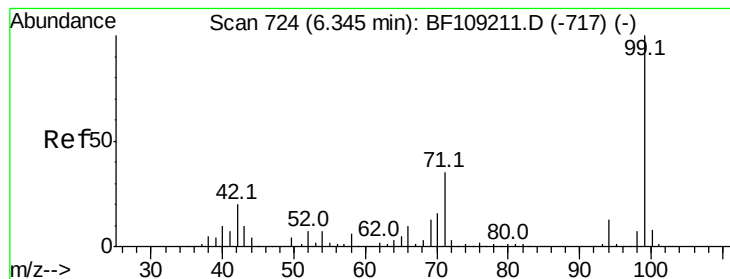


#5

2-Fluorophenol  
Concen: 37.459 ng  
RT: 5.31 min Scan# 548  
Delta R.T. -0.01 min  
Lab File: BF109267.D  
Acq: 24 Sep 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.7  | 47.9  | 71.9  |
| 63      | 30.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 37.920 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF109267.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_F

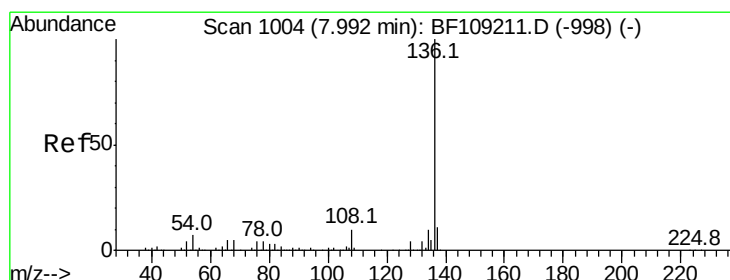
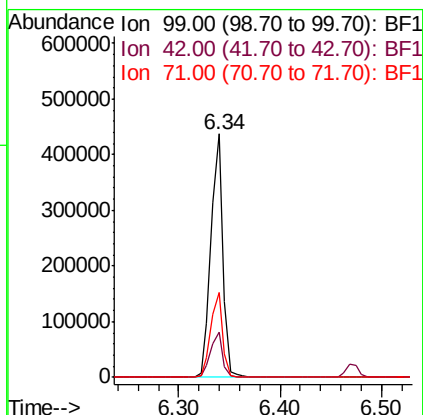
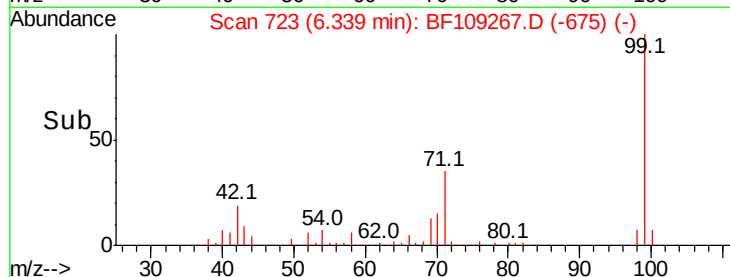
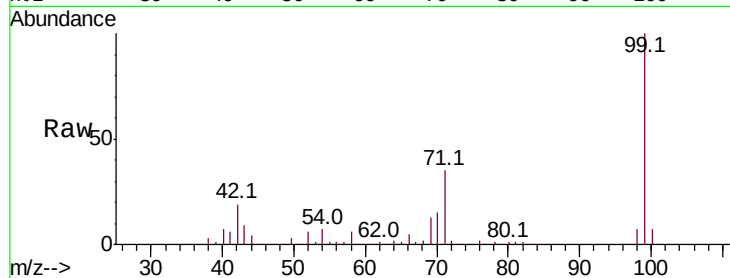
ClientSampleId :

JC-02-092118-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 361478 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.6  | 14.5  | 21.7   |
| 71        | 34.7  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

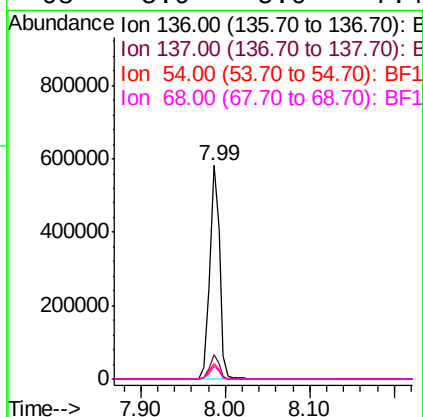
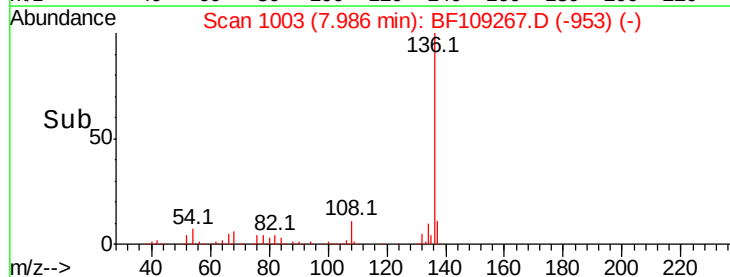
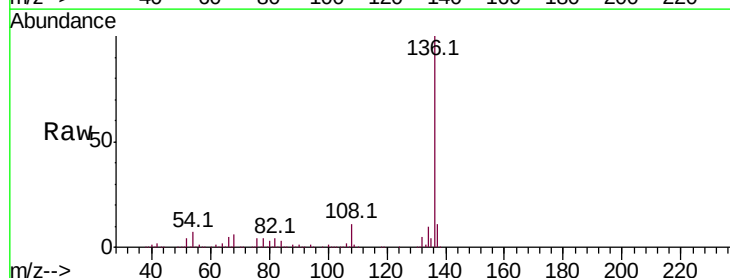
RT: 7.99 min Scan# 1003

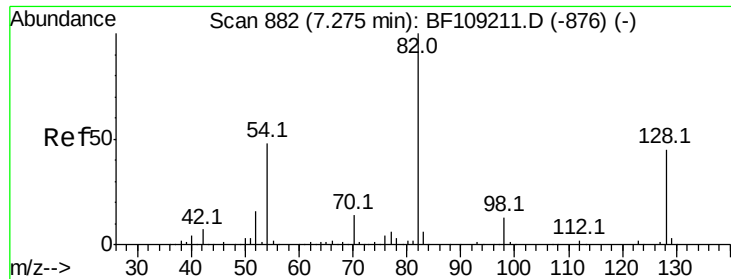
Delta R.T. -0.01 min

Lab File: BF109267.D

Acq: 24 Sep 2018 15:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 480503 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.3  | 8.9   | 13.3   |
| 54        | 7.4   | 6.6   | 9.8    |
| 68        | 5.9   | 5.0   | 7.4    |





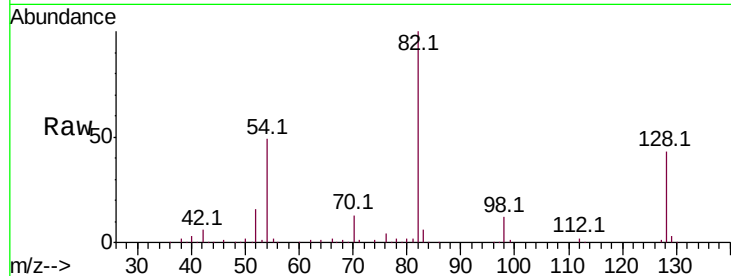
#23  
 Nitrobenzene-d5  
 Concen: 26.688 ng  
 RT: 7.26 min Scan# 880  
 Delta R.T. -0.02 min  
 Lab File: BF109267.D  
 Acq: 24 Sep 2018 15:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-092118-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.9  | 36.1  | 54.1  |
| 54      | 48.5  | 41.4  | 62.2  |

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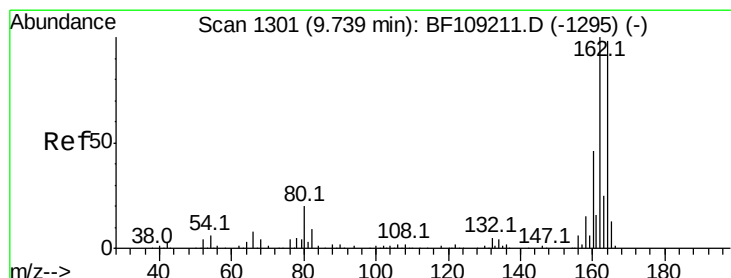
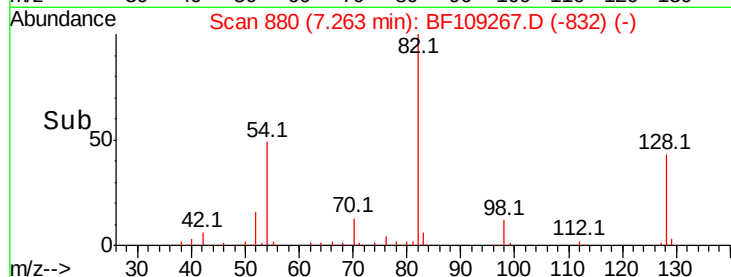
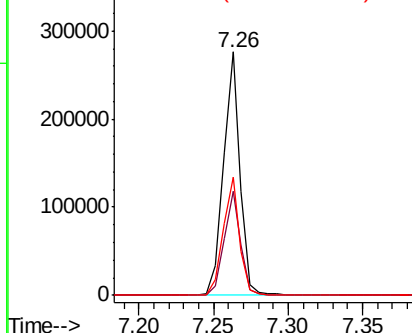


Abundance

Ion 82.00 (81.70 to 82.70): BF1

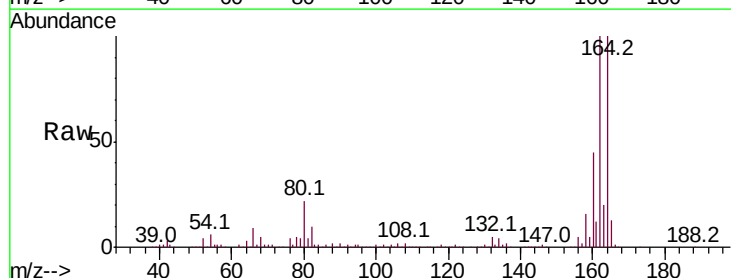
Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.01 min  
 Lab File: BF109267.D  
 Acq: 24 Sep 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.3 | 86.1  | 129.1 |
| 160     | 45.6  | 38.3  | 57.5  |

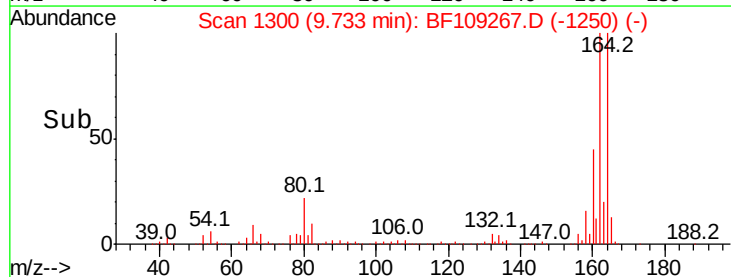
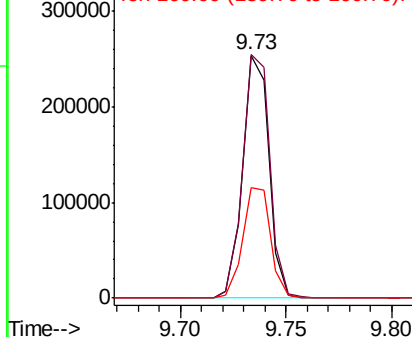


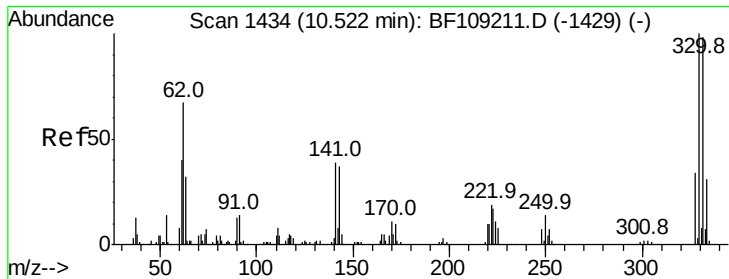
Abundance

Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





#41

2,4,6-Tribromophenol

Concen: 36.650 ng

RT: 10.52 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BF109267.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_F

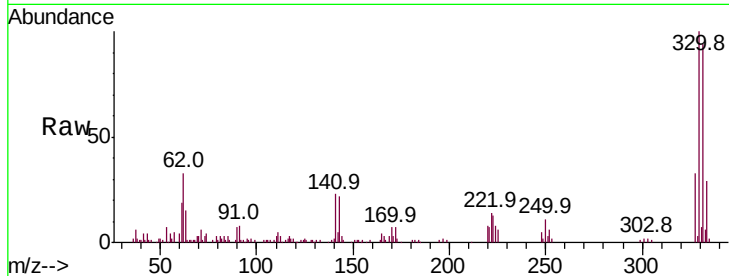
ClientSampleId :

JC-02-092118-B

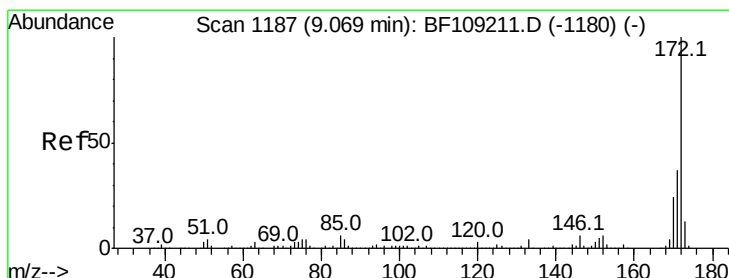
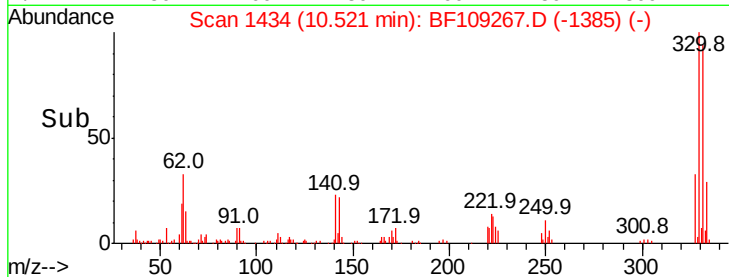
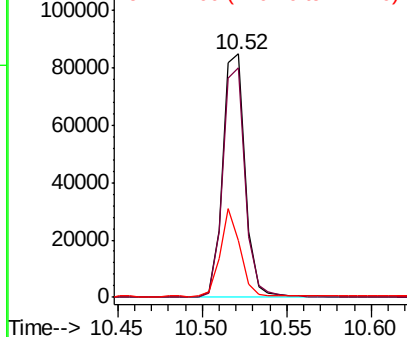
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 330   | Resp: | 78980 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 94.0  | 77.0  | 115.6 |
| 141       | 33.4  | 29.9  | 44.9  |

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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: 28.293 ng

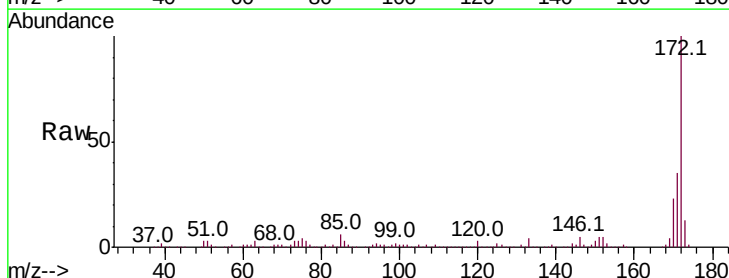
RT: 9.06 min Scan# 1186

Delta R.T. -0.01 min

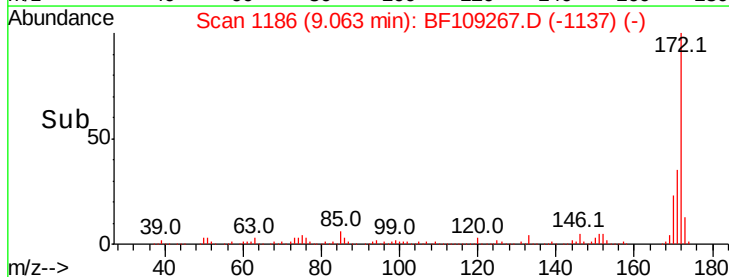
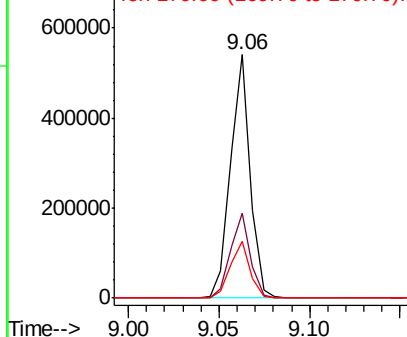
Lab File: BF109267.D

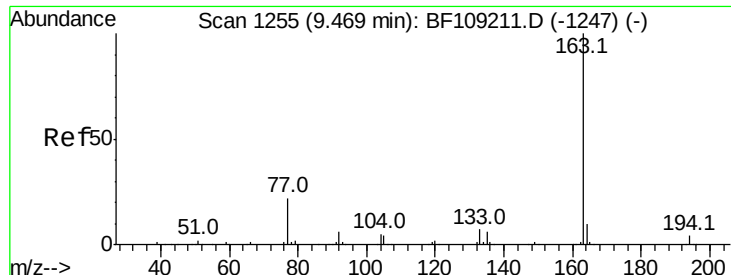
Acq: 24 Sep 2018 15:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 410084 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 34.9  | 29.7  | 44.5   |
| 170       | 23.1  | 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





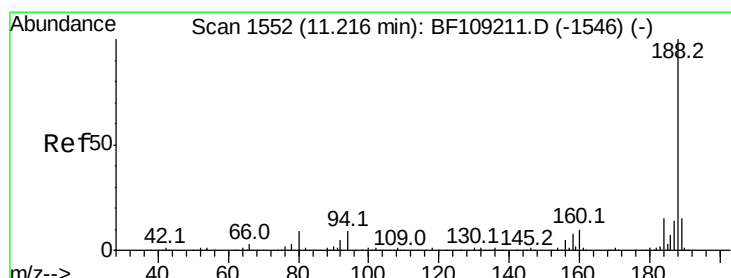
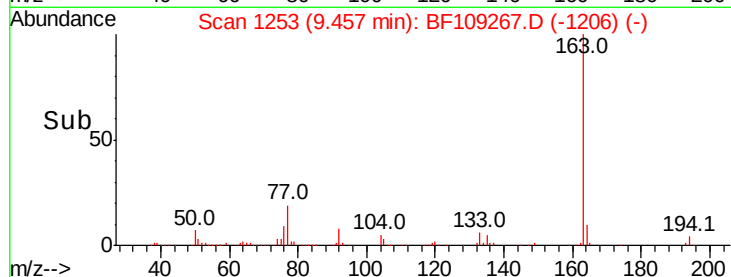
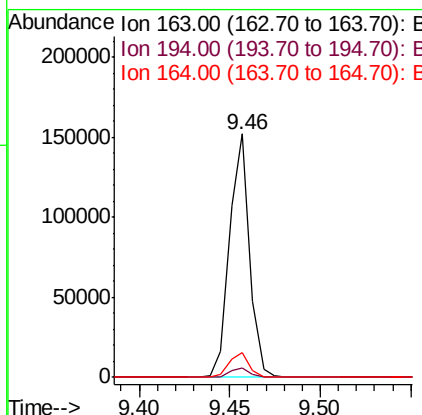
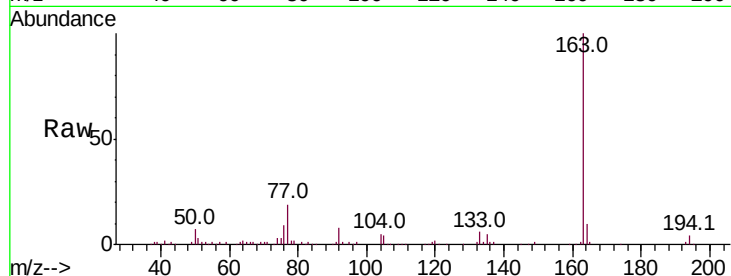
#49  
 Dimethylphthalate  
 Concen: 7.351 ng  
 RT: 9.46 min Scan# 1253  
 Delta R.T. -0.02 min  
 Lab File: BF109267.D  
 Acq: 24 Sep 2018 15:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-092118-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 116886 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.0   | 2.7   | 4.1    |
| 164       | 10.0  | 8.2   | 12.2   |

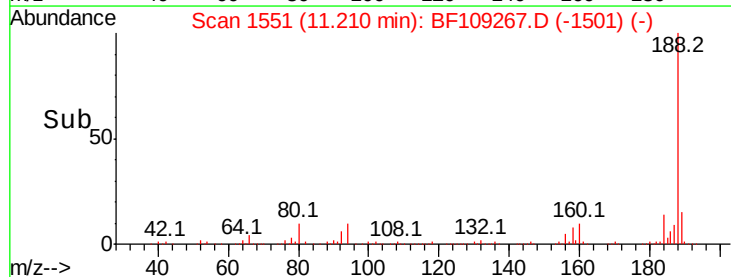
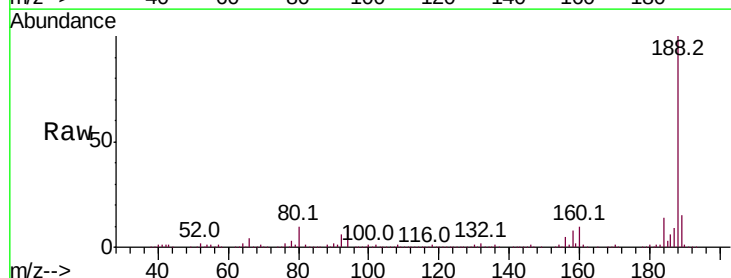
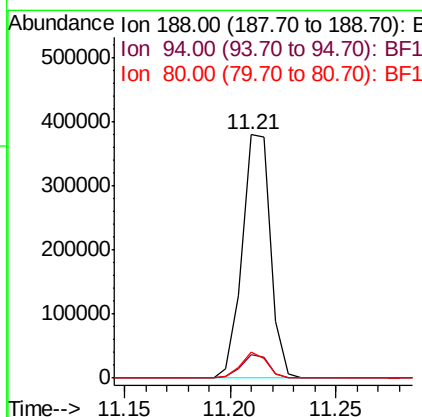
Manual Integrations  
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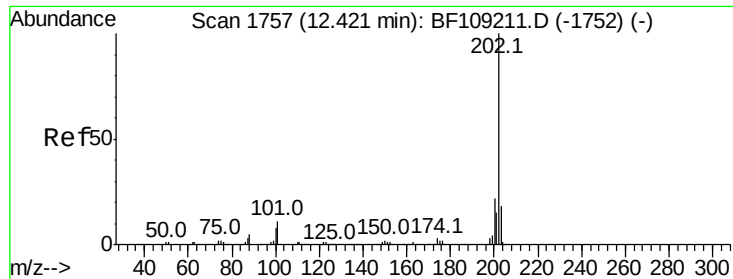
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#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.21 min Scan# 1551  
 Delta R.T. -0.01 min  
 Lab File: BF109267.D  
 Acq: 24 Sep 2018 15:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 352683 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.6   | 8.5   | 12.7   |
| 80        | 10.5  | 9.2   | 13.8   |





#74

Fluoranthene

Concen: 2.591 ng

RT: 12.42 min Scan# 1757

Delta R.T. -0.01 min

Lab File: BF109267.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_F

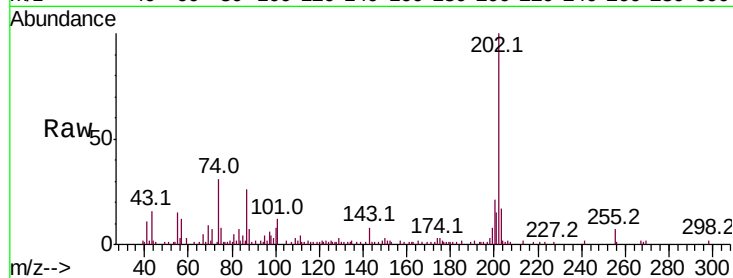
ClientSampleId :

JC-02-092118-B

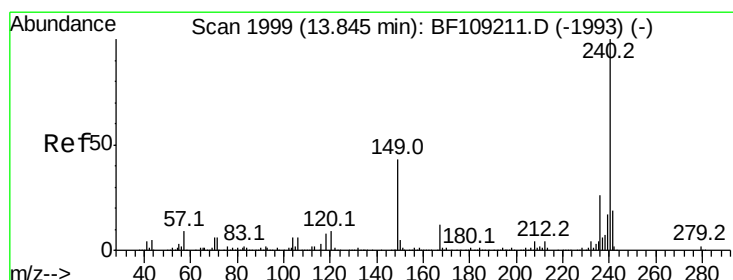
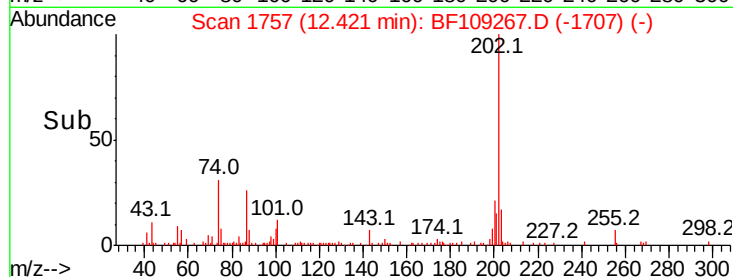
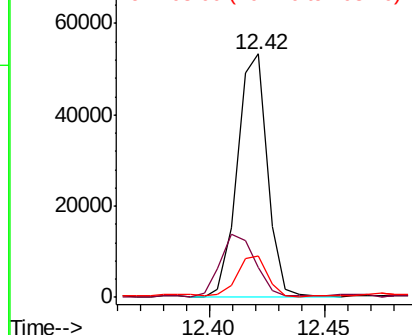
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 48754 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.2  | 0.0   | 34.1  |
| 203       | 17.2  | 0.0   | 38.1  |

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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

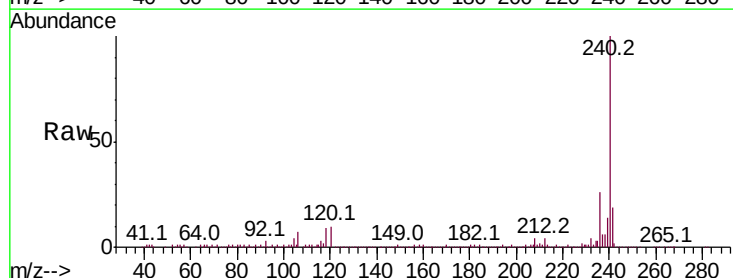
RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

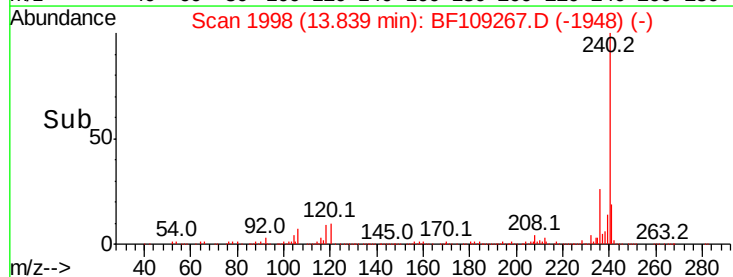
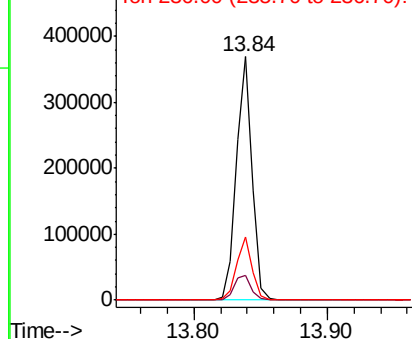
Lab File: BF109267.D

Acq: 24 Sep 2018 15:08

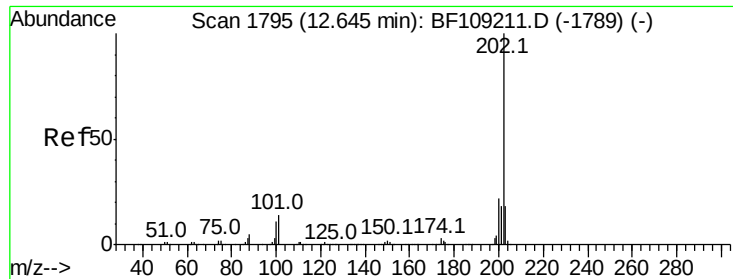
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 307423 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.3  | 9.5   | 14.3   |
| 236       | 25.8  | 20.7  | 31.1   |



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: 2.133 ng

RT: 12.64 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BF109267.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_F

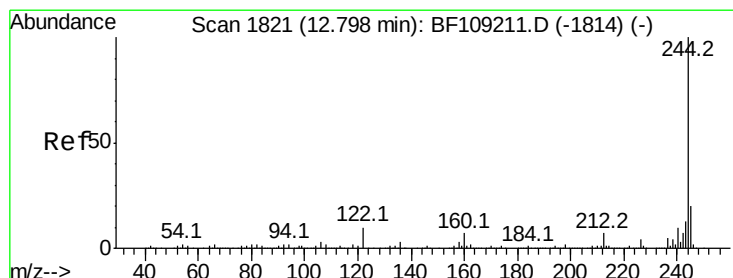
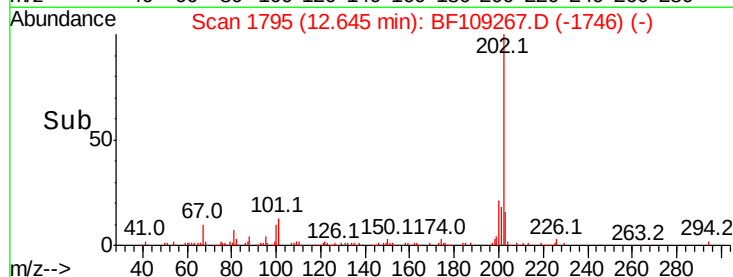
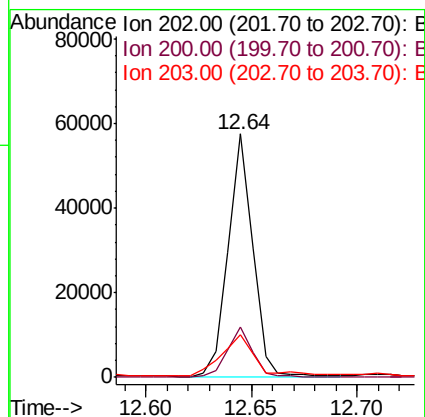
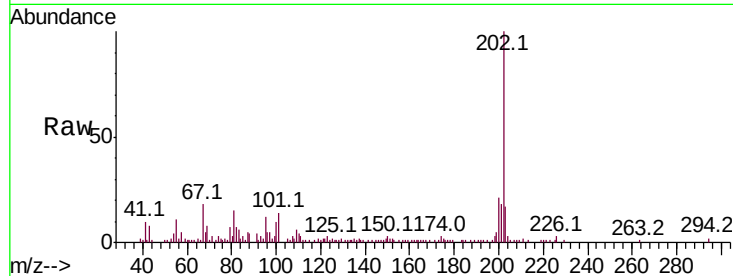
ClientSampleId :

JC-02-092118-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 47002 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.6  | 17.4  | 26.2  |
| 203       | 17.4  | 14.3  | 21.5  |

Manual Integrations  
APPROVED

Sohil  
9/26/2018 11:34:28 AM



#78

Terphenyl-d14

Concen: 23.438 ng

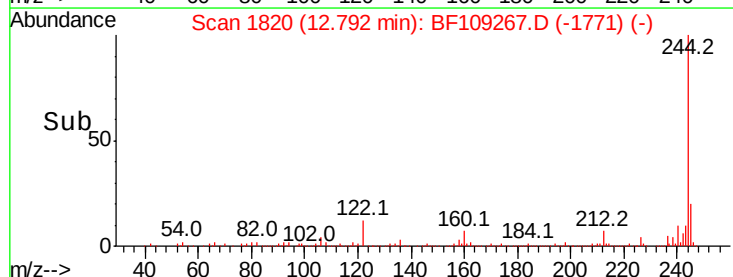
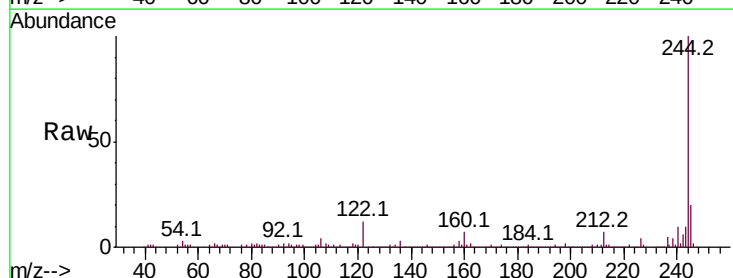
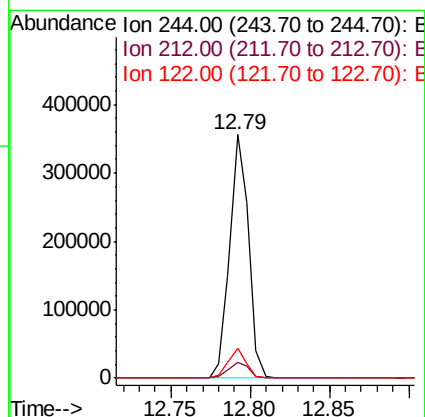
RT: 12.79 min Scan# 1820

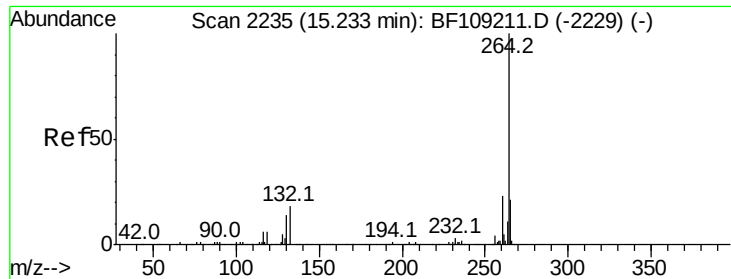
Delta R.T. -0.01 min

Lab File: BF109267.D

Acq: 24 Sep 2018 15:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 293594 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.6   | 5.4   | 8.0    |
| 122       | 12.2  | 11.0  | 16.4   |





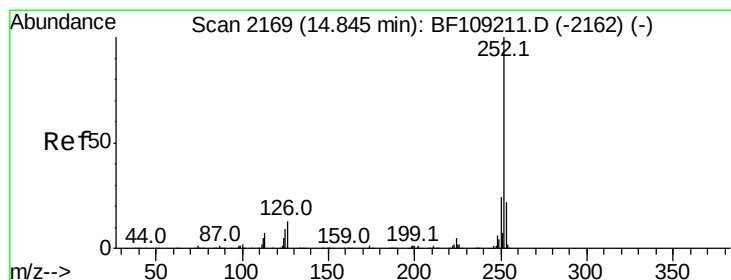
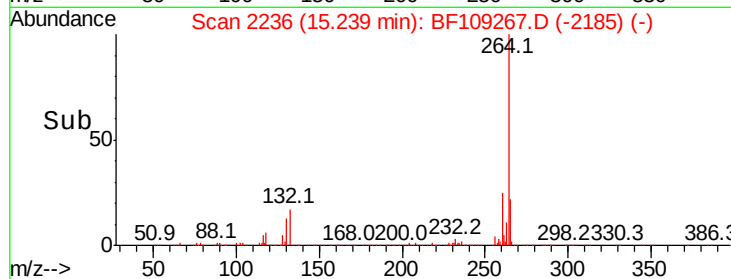
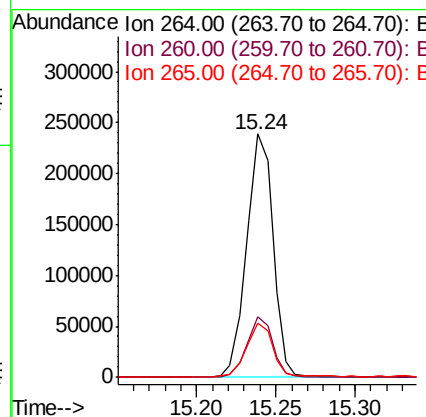
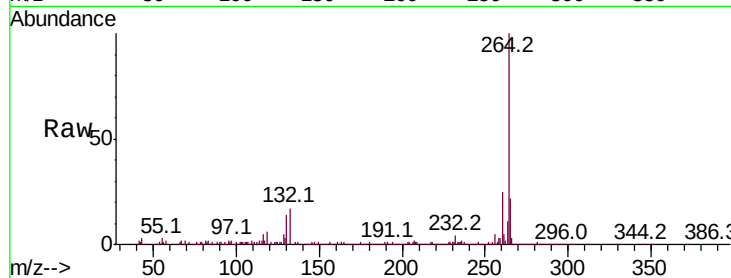
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.24 min Scan# 2236  
Delta R.T. -0.00 min  
Lab File: BF109267.D  
Acq: 24 Sep 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-092118-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 19.2  | 28.8  |
| 265     | 22.5  | 17.5  | 26.3  |

Manual Integrations  
APPROVED

Sohil  
9/26/2018 11:34:28 AM



#87  
Benzo(b)fluoranthene  
Concen: 2.036 ng m  
RT: 14.84 min Scan# 2169  
Delta R.T. -0.01 min  
Lab File: BF109267.D  
Acq: 24 Sep 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.6  | 17.0  | 25.6# |
| 125     | 20.4  | 9.0   | 13.6# |

