

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF021618\  
 Data File : BF103058.D  
 Acq On : 16 Feb 2018 17:53  
 Operator : SJ/JU  
 Sample : J1401-03 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SA-06-021518-B

Manual Integrations  
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Sohil  
 2/19/2018 11:09:43 AM

Quant Time: Feb 16 23:32:38 2018  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 16 14:34:49 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.87  | 152  | 169057   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.16  | 136  | 659490   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.92  | 164  | 262789   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.40 | 188  | 398757   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.04 | 240  | 297433   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.54 | 264  | 240623   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.49  | 112  | 230399   | 20.70 | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 284290   | 21.21 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.43  | 82   | 160040   | 16.83 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 40111    | 18.96 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.23  | 172  | 281047   | 17.75 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.98 | 244  | 203645   | 16.21 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 70) Phenanthrene            | 11.43 | 178  | 94722    | 4.265 | ng    | 99       |
| 74) Fluoranthene            | 12.62 | 202  | 148519   | 6.647 | ng    | 98       |
| 77) Pyrene                  | 12.84 | 202  | 157168   | 6.739 | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.03 | 228  | 60140    | 3.215 | ng    | 95       |
| 82) Chrysene                | 14.07 | 228  | 59697    | 3.166 | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 15.10 | 252  | 54330m   | 3.483 | ng    |          |
| 89) Benzo(a)pyrene          | 15.47 | 252  | 42695    | 3.040 | ng    | # 84     |
| 91) Benzo(g,h,i)perylene    | 17.50 | 276  | 24543    | 2.200 | ng    | # 91     |

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

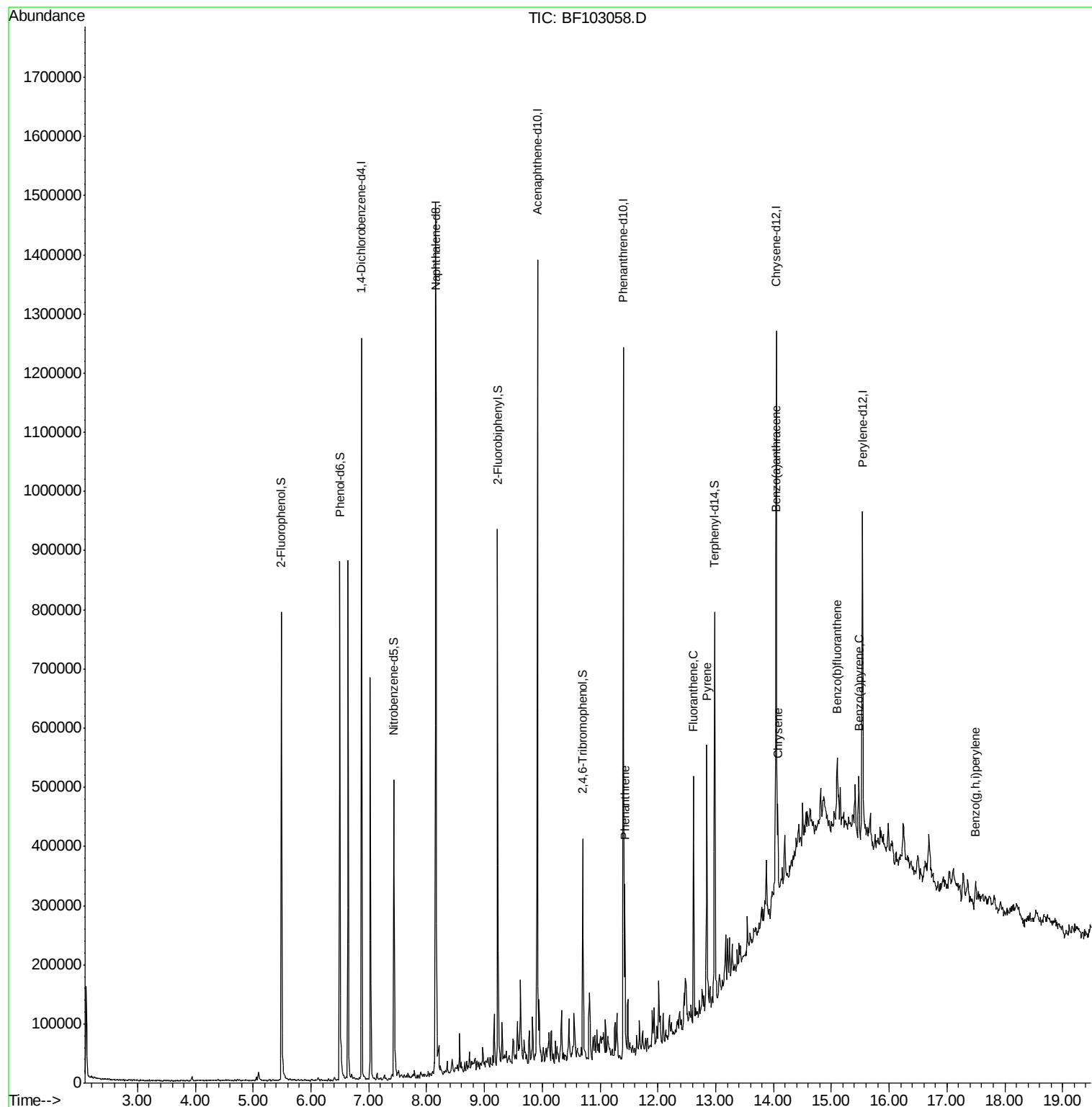
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF021618\  
Data File : BF103058.D  
Acq On : 16 Feb 2018 17:53  
Operator : SJ/JU  
Sample : J1401-03 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SA-06-021518-B

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Quant Time: Feb 16 23:32:38 2018  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 16 14:34:49 2018  
Response via : Initial Calibration





#1

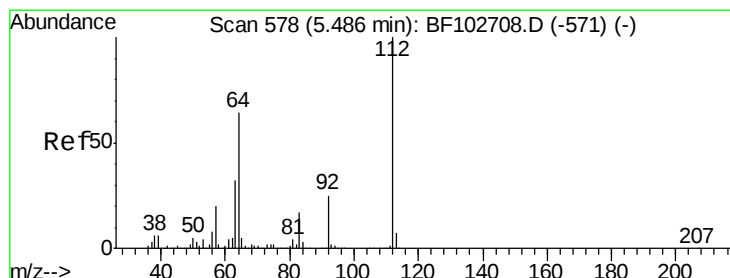
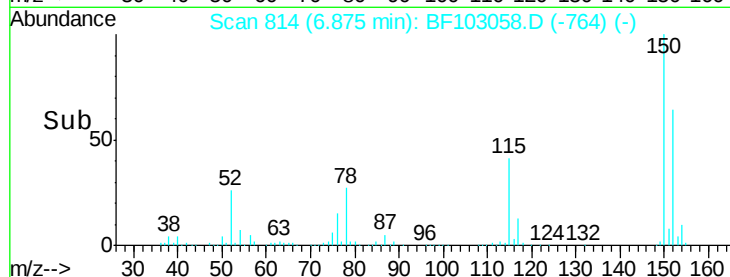
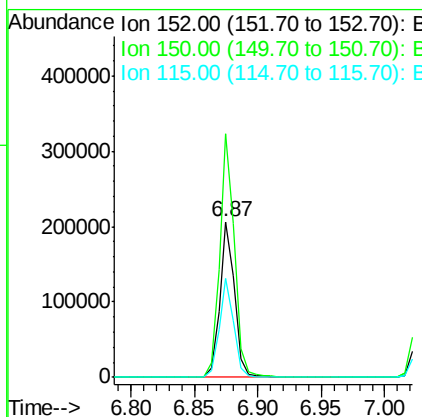
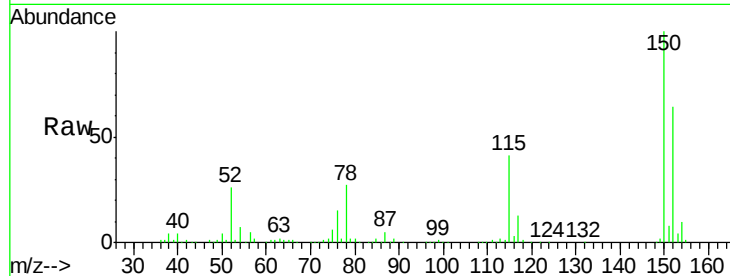
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BF103058.D  
Acq: 16 Feb 2018 17:53

Instrument :  
BNA\_F  
ClientSampleId :  
SA-06-021518-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.7 | 124.6 | 186.8 |
| 115     | 63.6  | 50.1  | 75.1  |

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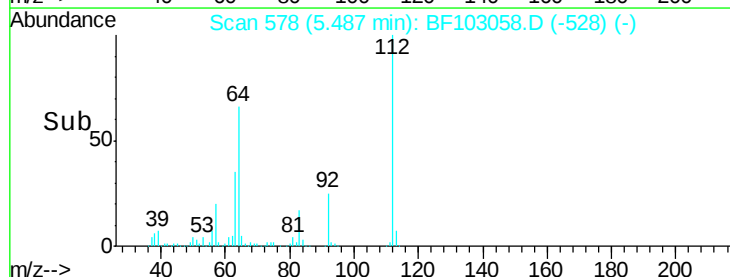
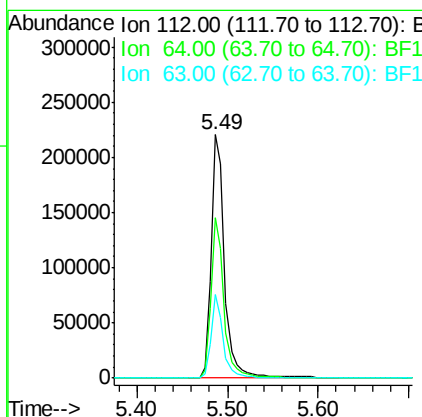
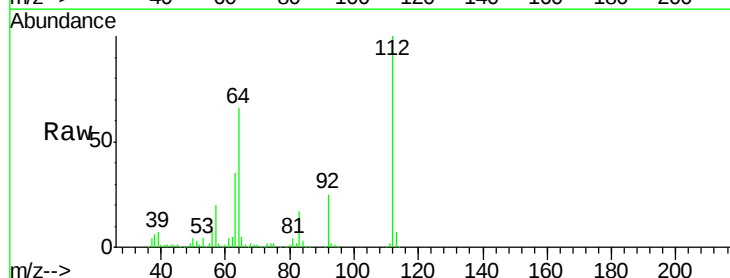
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#5

2-Fluorophenol  
Concen: 20.697 ng  
RT: 5.49 min Scan# 578  
Delta R.T. -0.01 min  
Lab File: BF103058.D  
Acq: 16 Feb 2018 17:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.9  | 47.9  | 71.9  |
| 63      | 34.5  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 21.210 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF103058.D

Acq: 16 Feb 2018 17:53

Instrument :

BNA\_F

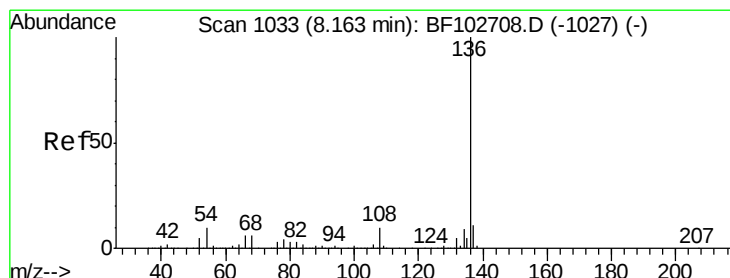
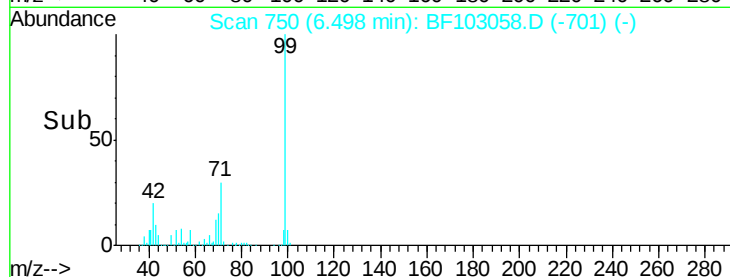
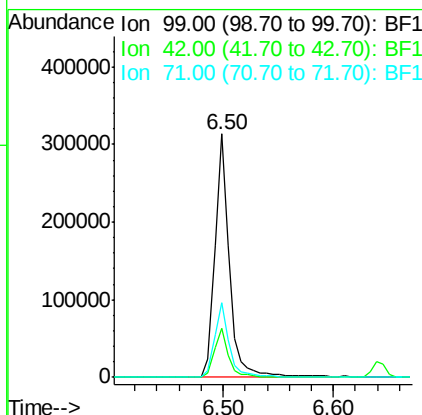
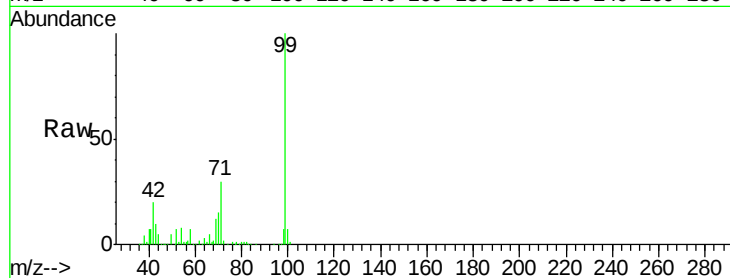
ClientSampleId :

SA-06-021518-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 284290 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.9  | 14.5  | 21.7   |
| 71        | 30.5  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

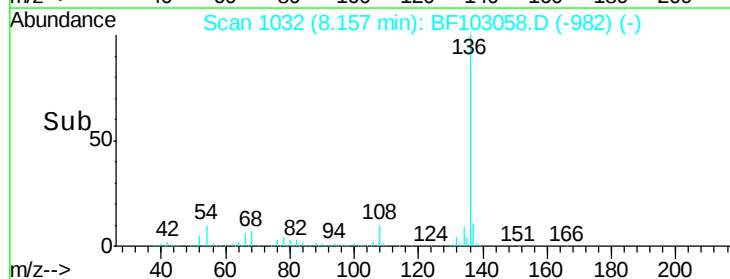
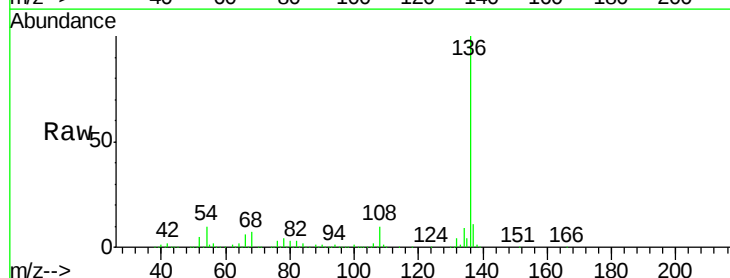
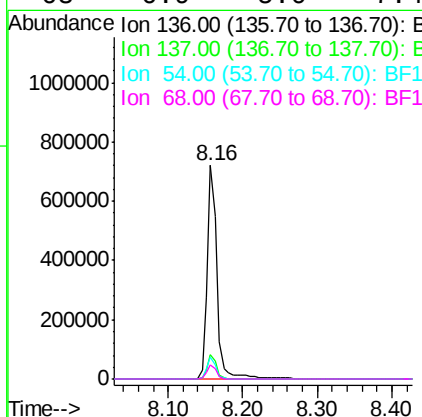
RT: 8.16 min Scan# 1032

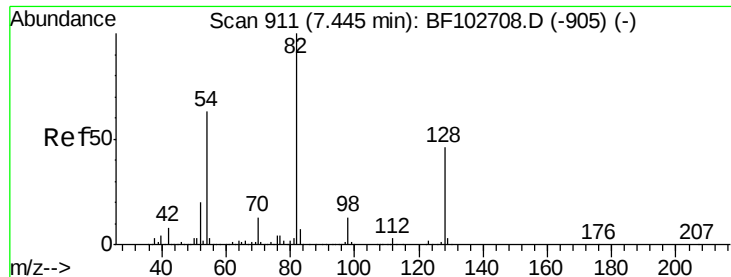
Delta R.T. -0.01 min

Lab File: BF103058.D

Acq: 16 Feb 2018 17:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 659490 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.4  | 8.9   | 13.3   |
| 54        | 10.5  | 6.6   | 9.8#   |
| 68        | 6.9   | 5.0   | 7.4    |





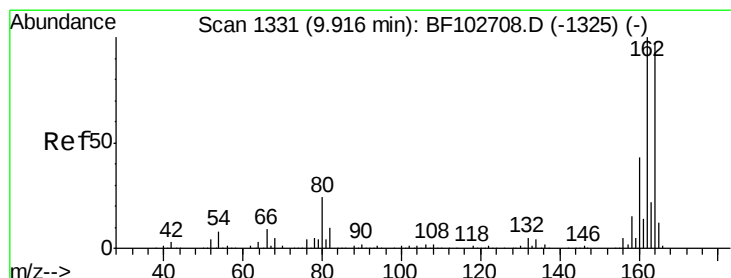
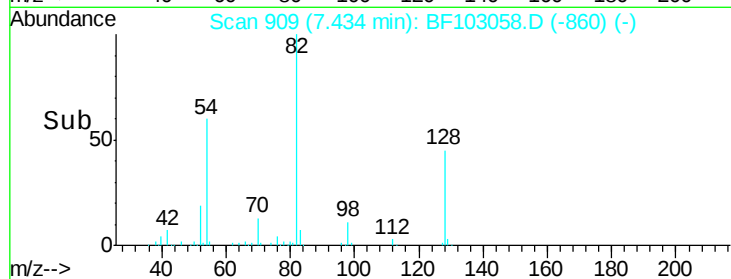
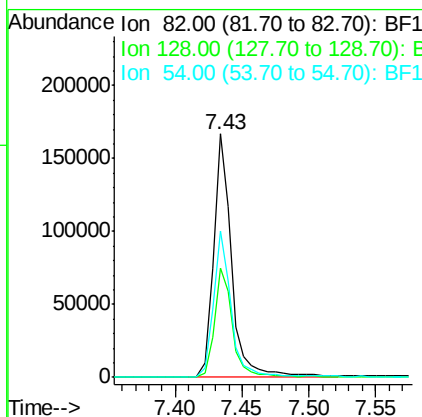
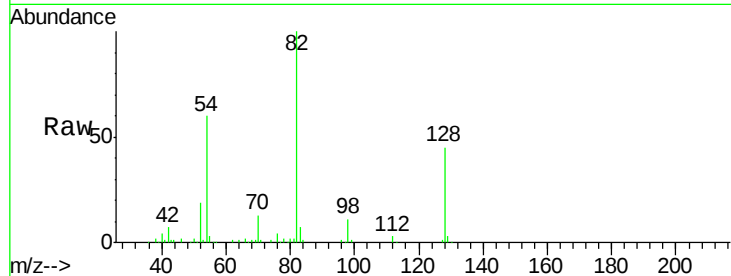
#23  
 Nitrobenzene-d5  
 Concen: 16.834 ng  
 RT: 7.43 min Scan# 909  
 Delta R.T. -0.01 min  
 Lab File: BF103058.D  
 Acq: 16 Feb 2018 17:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SA-06-021518-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 160040 |       |       |
| 128     | 44.9  | 36.1   | 54.1  |       |
| 54      | 60.1  | 41.4   | 62.2  |       |

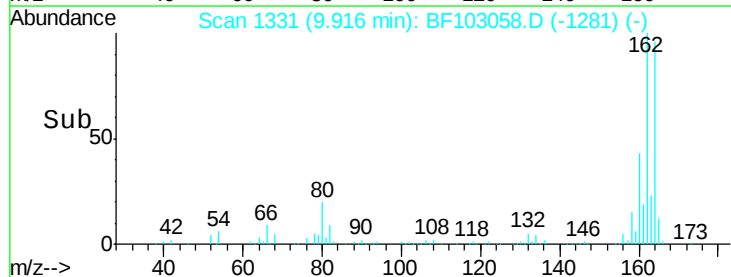
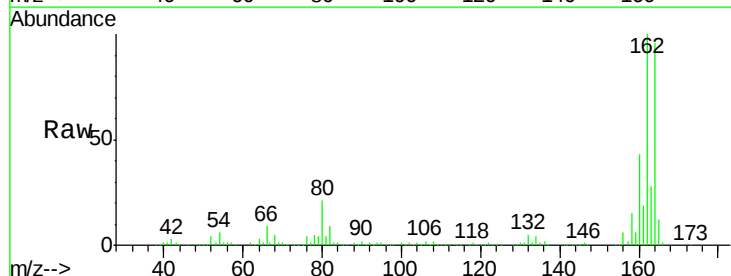
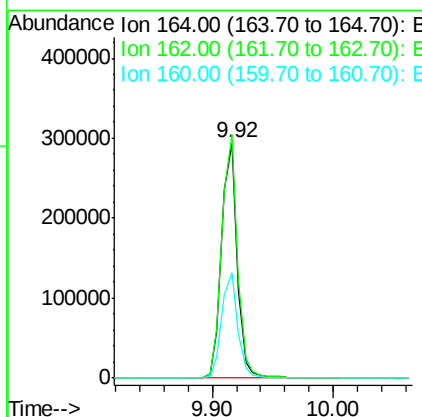
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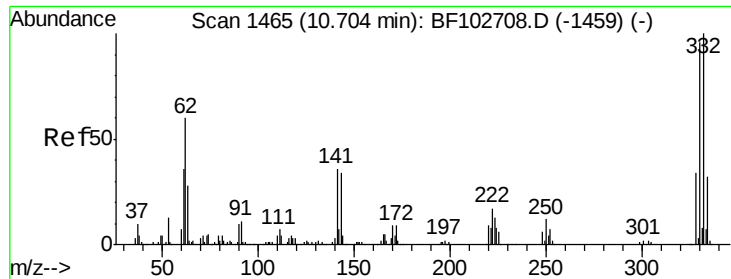
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.01 min  
 Lab File: BF103058.D  
 Acq: 16 Feb 2018 17:53

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 262789 |       |       |
| 162     | 103.8 | 86.1   | 129.1 |       |
| 160     | 44.9  | 38.3   | 57.5  |       |





#41

2,4,6-Tribromophenol

Concen: 18.964 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.01 min

Lab File: BF103058.D

Acq: 16 Feb 2018 17:53

Instrument :

BNA\_F

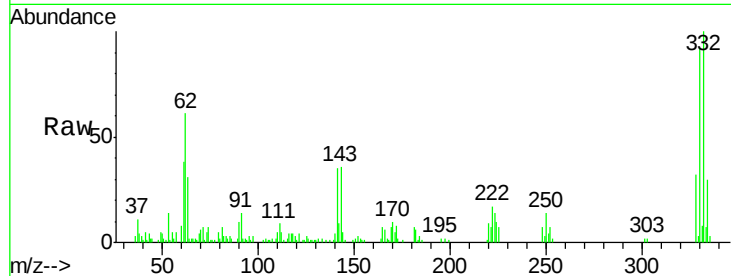
ClientSampleId :

SA-06-021518-B

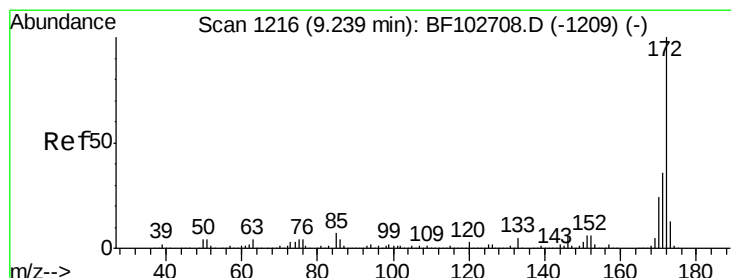
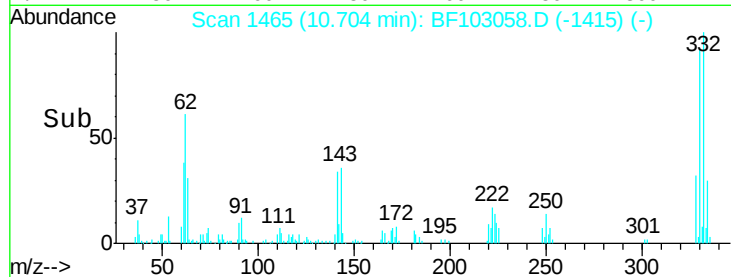
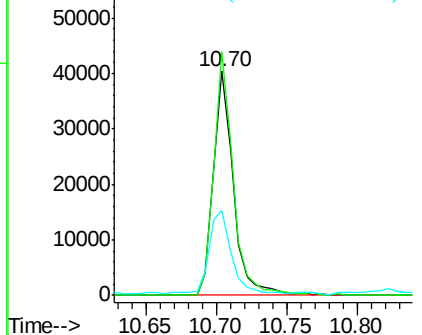
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 40111 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 104.8 | 77.0  | 115.6 |
| 141       | 39.5  | 29.9  | 44.9  |

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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: 17.746 ng

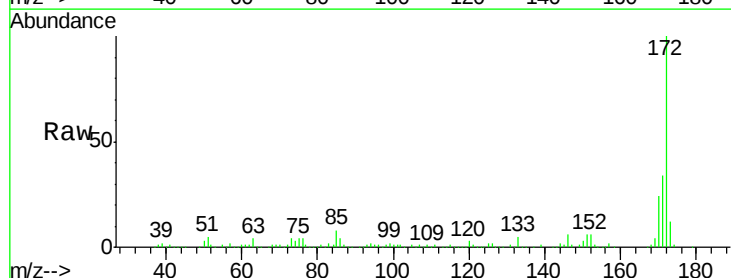
RT: 9.23 min Scan# 1214

Delta R.T. -0.01 min

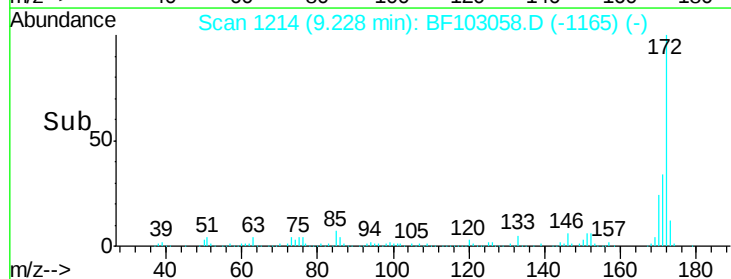
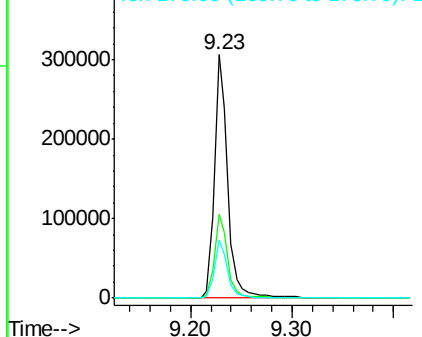
Lab File: BF103058.D

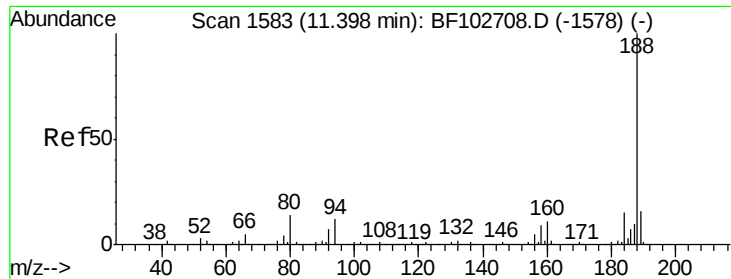
Acq: 16 Feb 2018 17:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 281047 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 34.4  | 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





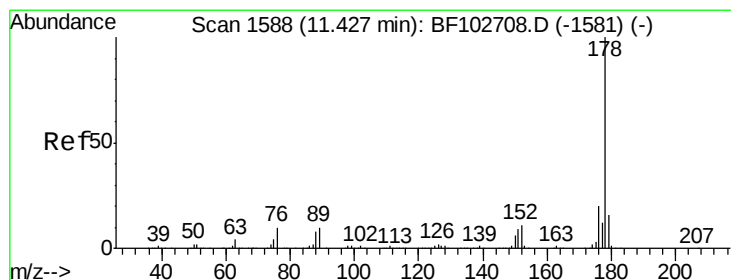
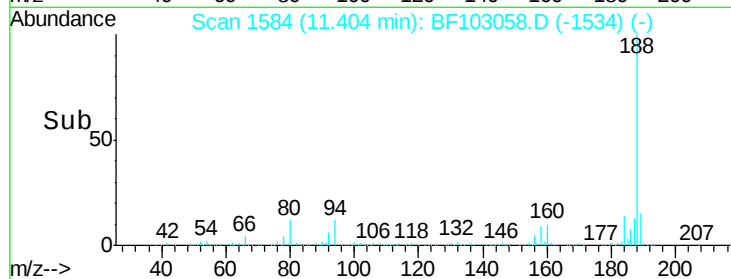
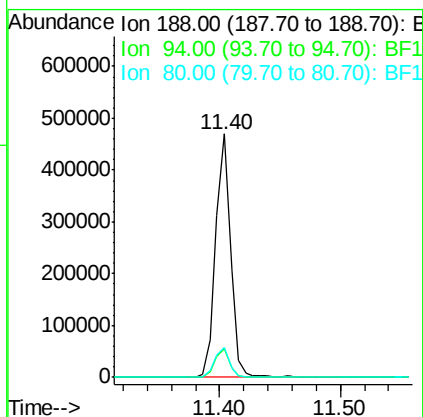
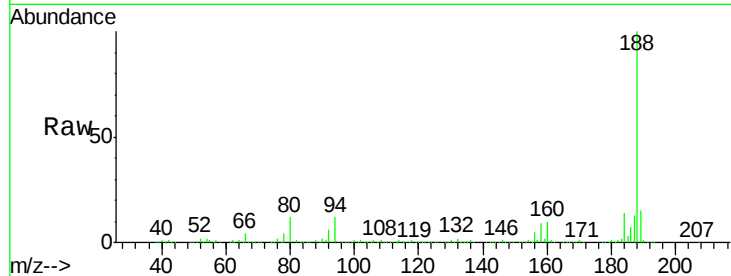
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. -0.01 min  
Lab File: BF103058.D  
Acq: 16 Feb 2018 17:53

Instrument :  
BNA\_F  
ClientSampleId :  
SA-06-021518-B

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 11.5  | 8.5        | 12.7       |
| 80      | 12.1  | 9.2        | 13.8       |

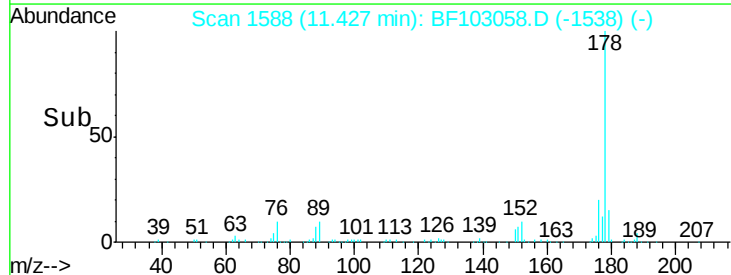
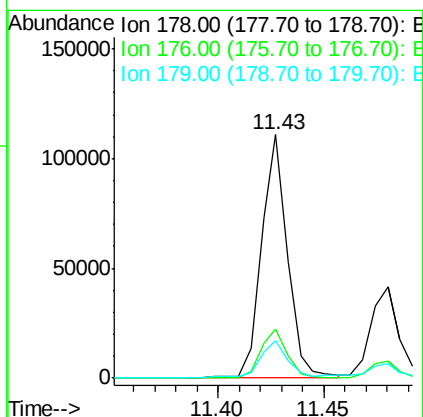
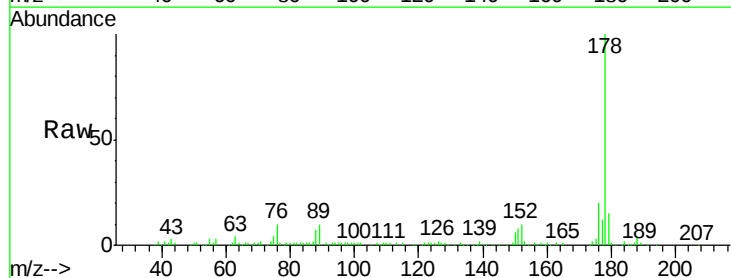
Manual Integrations  
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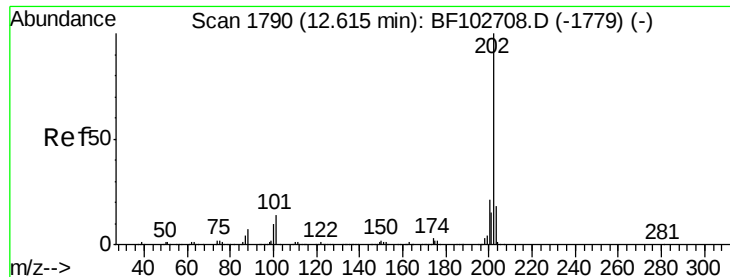
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#70  
Phenanthrene  
Concen: 4.265 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.01 min  
Lab File: BF103058.D  
Acq: 16 Feb 2018 17:53

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 176     | 19.9  | 15.8       | 23.8       |
| 179     | 15.4  | 13.0       | 19.6       |





#74

Fluoranthene

Concen: 6.647 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF103058.D

Acq: 16 Feb 2018 17:53

Instrument :

BNA\_F

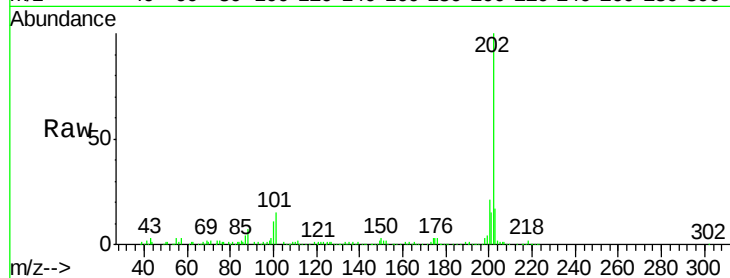
ClientSampleId :

SA-06-021518-B

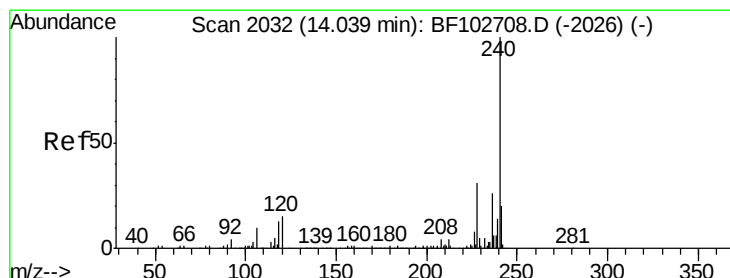
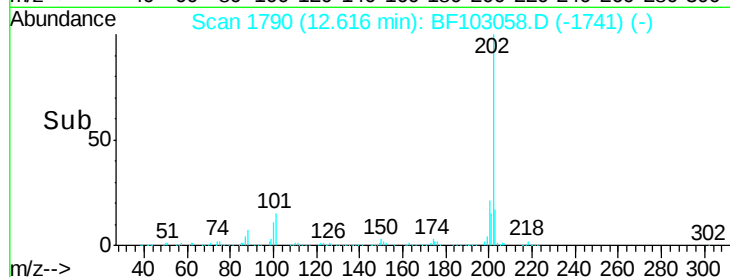
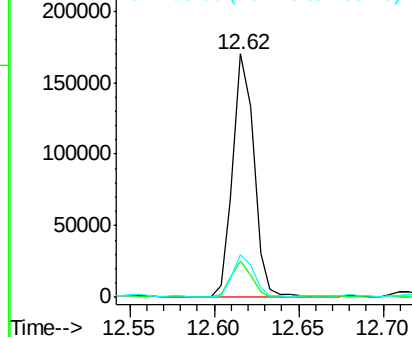
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 15.1  | 0.0        | 34.1  |
| 203     | 17.4  | 0.0        | 38.1  |

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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

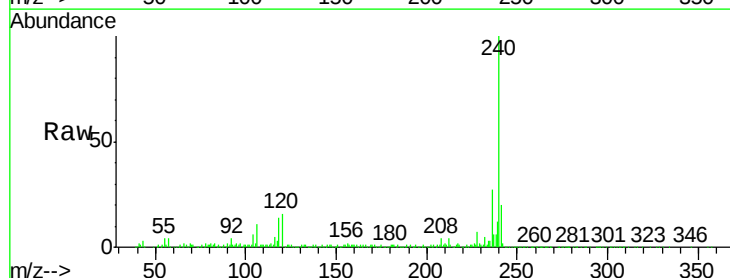
RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

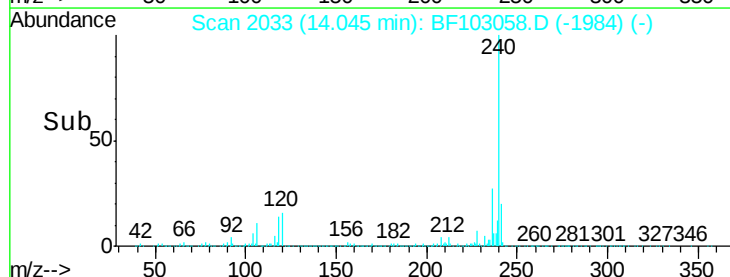
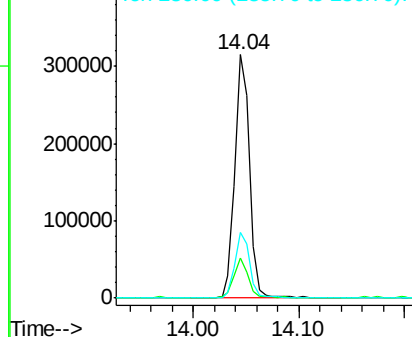
Lab File: BF103058.D

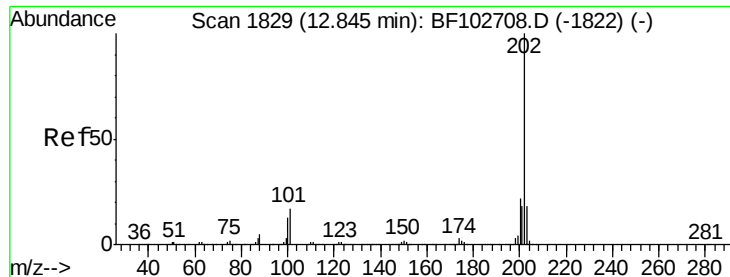
Acq: 16 Feb 2018 17:53

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 16.2  | 9.5        | 14.3# |
| 236     | 26.8  | 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





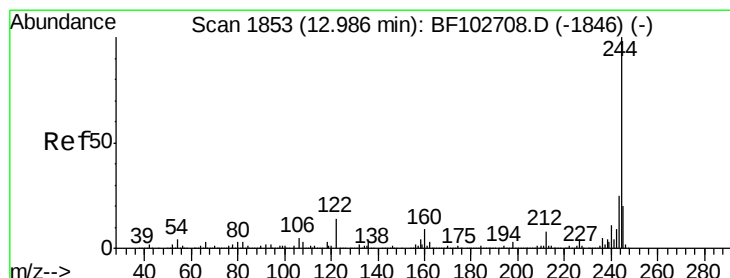
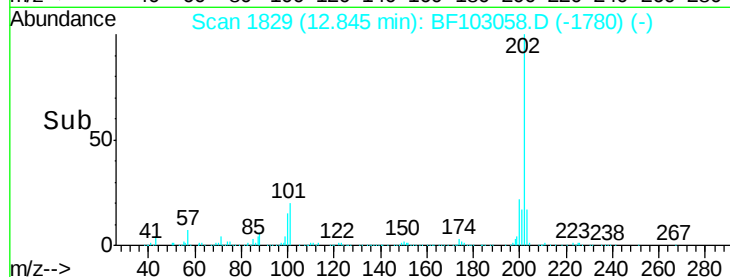
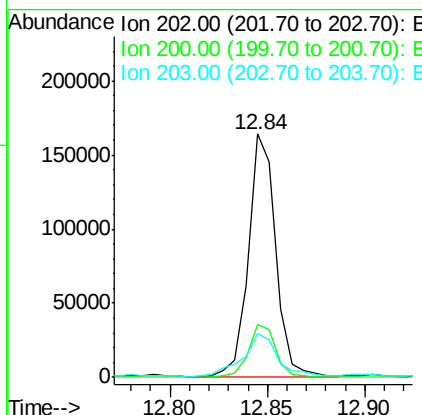
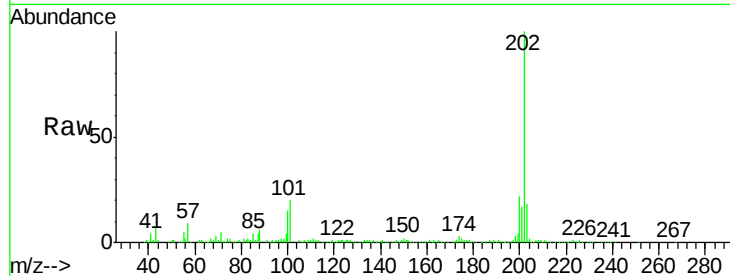
#77  
 Pyrene  
 Concen: 6.739 ng  
 RT: 12.84 min Scan# 1829  
 Delta R.T. -0.01 min  
 Lab File: BF103058.D  
 Acq: 16 Feb 2018 17:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SA-06-021518-B

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 21.7  | 17.4       | 26.2       |
| 203     | 18.3  | 14.3       | 21.5       |

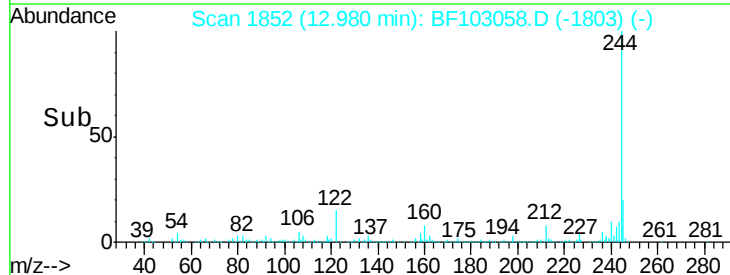
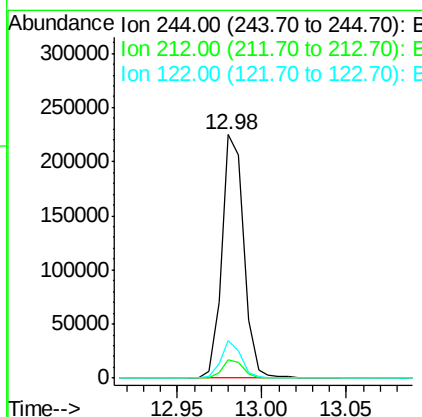
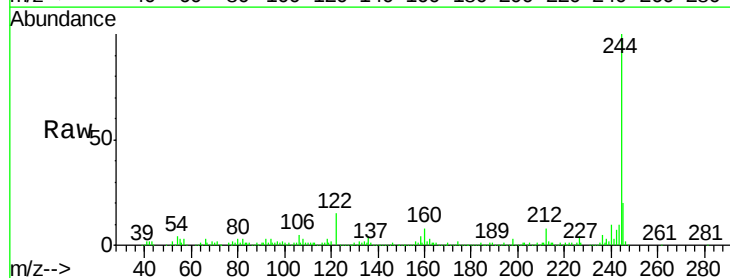
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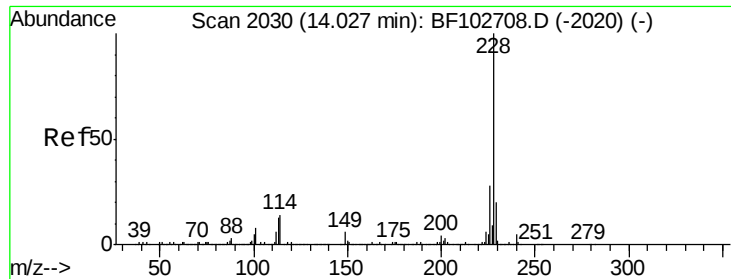
Sohil  
 2/19/2018 11:09:43 AM



#78  
 Terphenyl-d14  
 Concen: 16.212 ng  
 RT: 12.98 min Scan# 1852  
 Delta R.T. -0.01 min  
 Lab File: BF103058.D  
 Acq: 16 Feb 2018 17:53

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 7.5   | 5.4        | 8.0        |
| 122     | 15.5  | 11.0       | 16.4       |





#80

Benzo(a)anthracene

Concen: 3.215 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF103058.D

Acq: 16 Feb 2018 17:53

Instrument :

BNA\_F

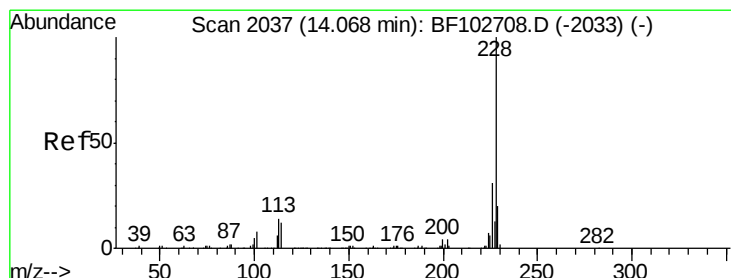
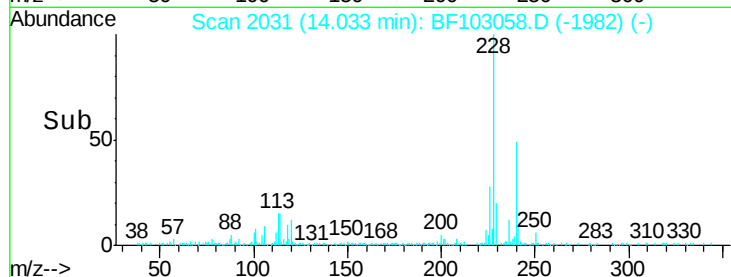
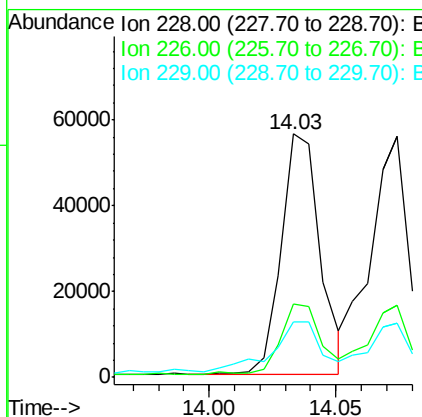
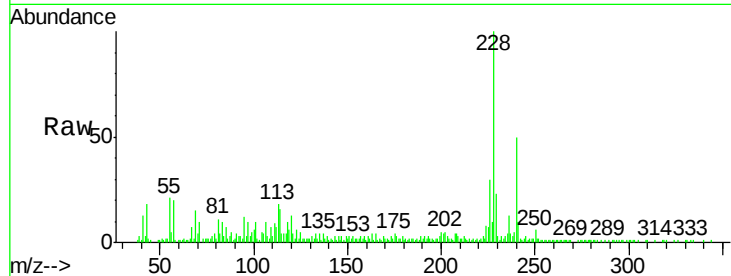
ClientSampleId :

SA-06-021518-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 60140 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.1  | 22.6  | 33.8  |
| 229       | 23.0  | 15.8  | 23.6  |

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#82

Chrysene

Concen: 3.166 ng

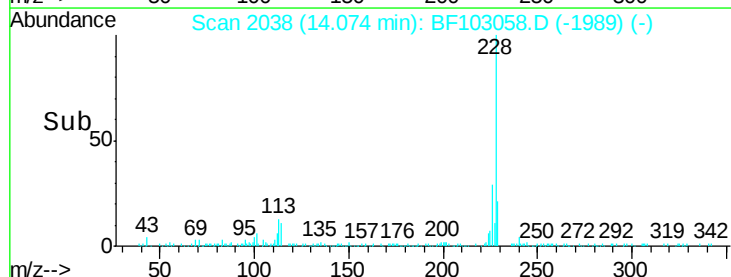
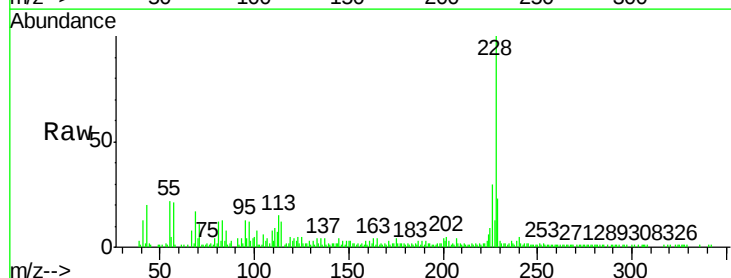
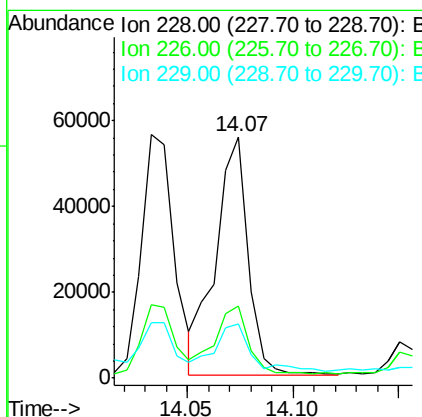
RT: 14.07 min Scan# 2038

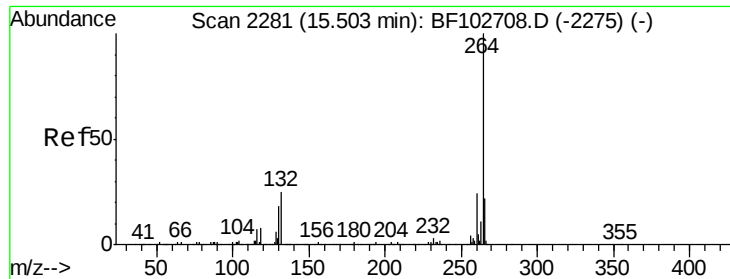
Delta R.T. -0.01 min

Lab File: BF103058.D

Acq: 16 Feb 2018 17:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 59697 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.1  | 25.0  | 37.6  |
| 229       | 22.7  | 16.2  | 24.4  |





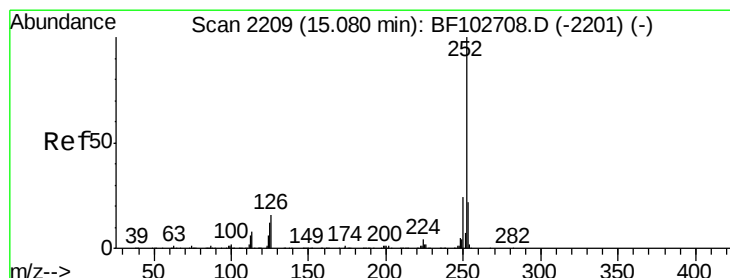
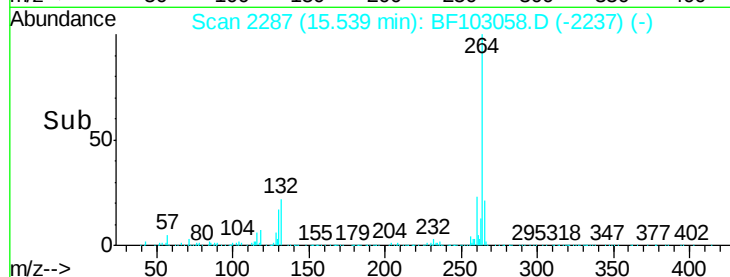
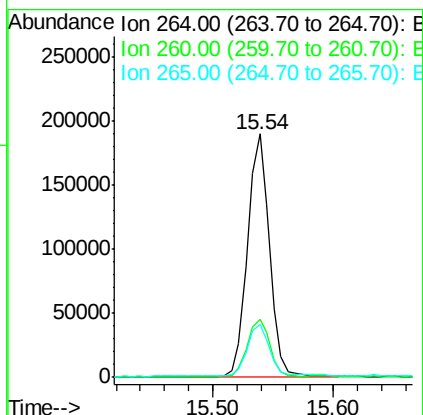
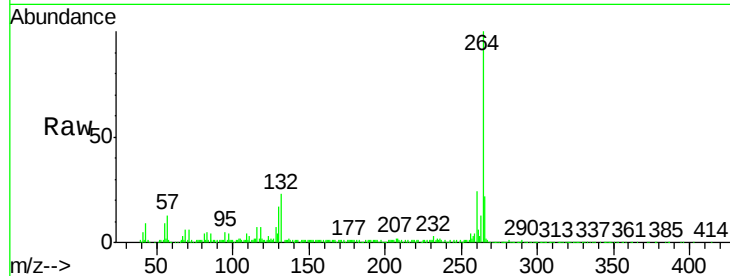
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.54 min Scan# 2287  
Delta R.T. -0.01 min  
Lab File: BF103058.D  
Acq: 16 Feb 2018 17:53

Instrument :  
BNA\_F  
ClientSampleId :  
SA-06-021518-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.2  | 28.8  |
| 265     | 21.6  | 17.5  | 26.3  |

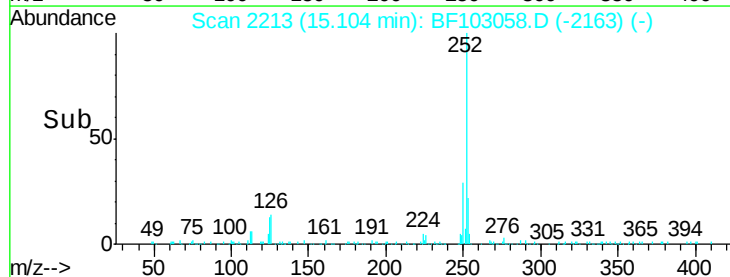
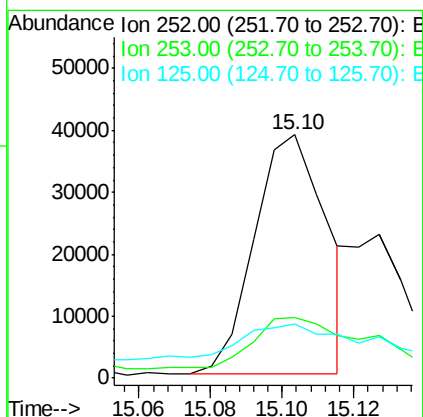
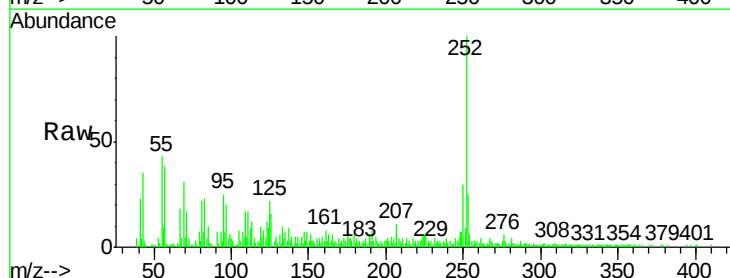
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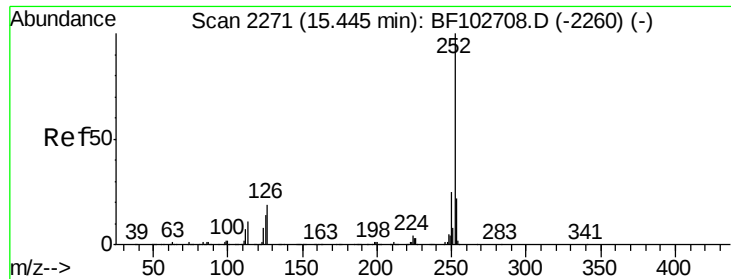
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#87  
Benzo(b)fluoranthene  
Concen: 3.483 ng m  
RT: 15.10 min Scan# 2213  
Delta R.T. -0.01 min  
Lab File: BF103058.D  
Acq: 16 Feb 2018 17:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 17.0  | 25.6  |
| 125     | 22.1  | 9.0   | 13.6  |





#89

Benzo(a)pyrene

Concen: 3.040 ng

RT: 15.47 min Scan# 2276

Delta R.T. -0.01 min

Lab File: BF103058.D

Acq: 16 Feb 2018 17:53

Instrument :

BNA\_F

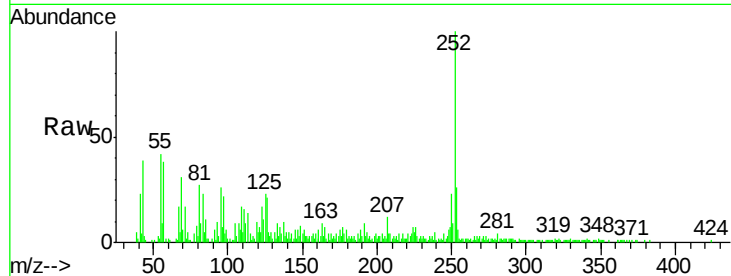
ClientSampleId :

SA-06-021518-B

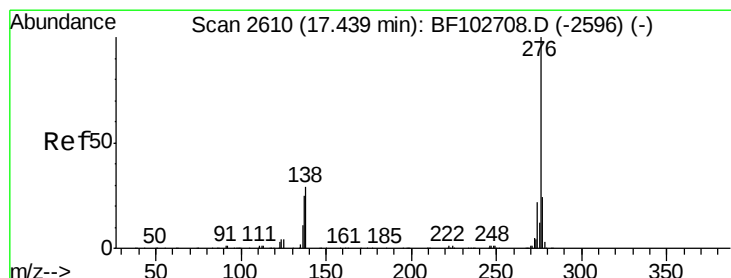
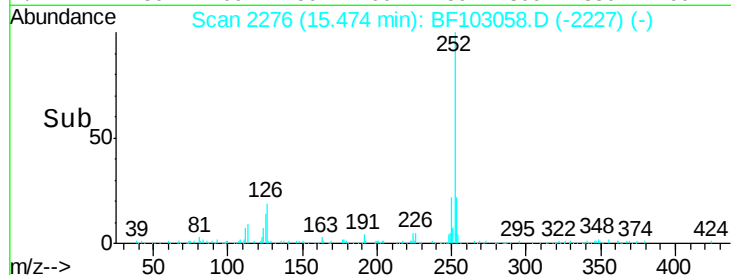
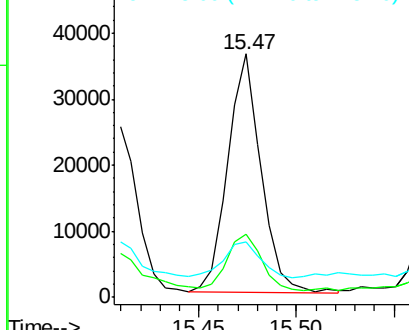
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 42695 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.8  | 17.1  | 25.7# |
| 125       | 22.7  | 9.8   | 14.6# |

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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.200 ng

RT: 17.50 min Scan# 2621

Delta R.T. -0.02 min

Lab File: BF103058.D

Acq: 16 Feb 2018 17:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 24543 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 29.4  | 17.9  | 26.9# |
| 138       | 29.4  | 21.8  | 32.8  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

