

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF011218\  
 Data File : BF102046.D  
 Acq On : 12 Jan 2018 16:45  
 Operator : SJ/JU  
 Sample : J1011-10 2X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-011118-A

Manual Integrations  
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 1/15/2018 4:22:17 PM

Quant Time: Jan 13 00:41:21 2018  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 11 12:53:54 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 212952   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.01  | 136  | 686574   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 9.76  | 164  | 347942   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.24 | 188  | 515204   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 13.87 | 240  | 364510   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12            | 15.30 | 264  | 366623   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.33  | 112  | 728575   | 48.31  | ng    | 0.00        |
| 7) Phenol-d6                | 6.36  | 99   | 877731   | 48.78  | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 535603   | 45.84  | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 121696   | 40.08  | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 800221   | 35.93  | ng    | 0.00        |
| 78) Terphenyl-d14           | 12.83 | 244  | 492484   | 28.05  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 31) Naphthalene             | 8.03  | 128  | 73321    | 2.137  | ng    | Qvalue # 88 |
| 37) 2-Methylnaphthalene     | 8.72  | 142  | 72011    | 3.188  | ng    | 99          |
| 49) Dimethylphthalate       | 9.48  | 163  | 120121   | 4.304  | ng    | # 98        |
| 57) Fluorene                | 10.30 | 166  | 44713    | 2.052  | ng    | 92          |
| 70) Phenanthrene            | 11.26 | 178  | 399798   | 13.285 | ng    | 99          |
| 71) Anthracene              | 11.32 | 178  | 107464   | 3.521  | ng    | 98          |
| 74) Fluoranthene            | 12.45 | 202  | 446591   | 15.083 | ng    | 98          |
| 77) Pyrene                  | 12.67 | 202  | 383486   | 11.902 | ng    | 99          |
| 80) Benzo(a)anthracene      | 13.86 | 228  | 211488   | 9.094  | ng    | 98          |
| 82) Chrysene                | 13.90 | 228  | 184859   | 7.623  | ng    | 97          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.67 | 276  | 69579    | 3.942  | ng    | 96          |
| 87) Benzo(b)fluoranthene    | 14.89 | 252  | 216583m  | 9.060  | ng    |             |
| 88) Benzo(k)fluoranthene    | 14.92 | 252  | 80761m   | 3.502  | ng    |             |
| 89) Benzo(a)pyrene          | 15.23 | 252  | 159613   | 7.420  | ng    | # 92        |
| 91) Benzo(g,h,i)perylene    | 17.09 | 276  | 63575    | 3.677  | ng    | # 87        |

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

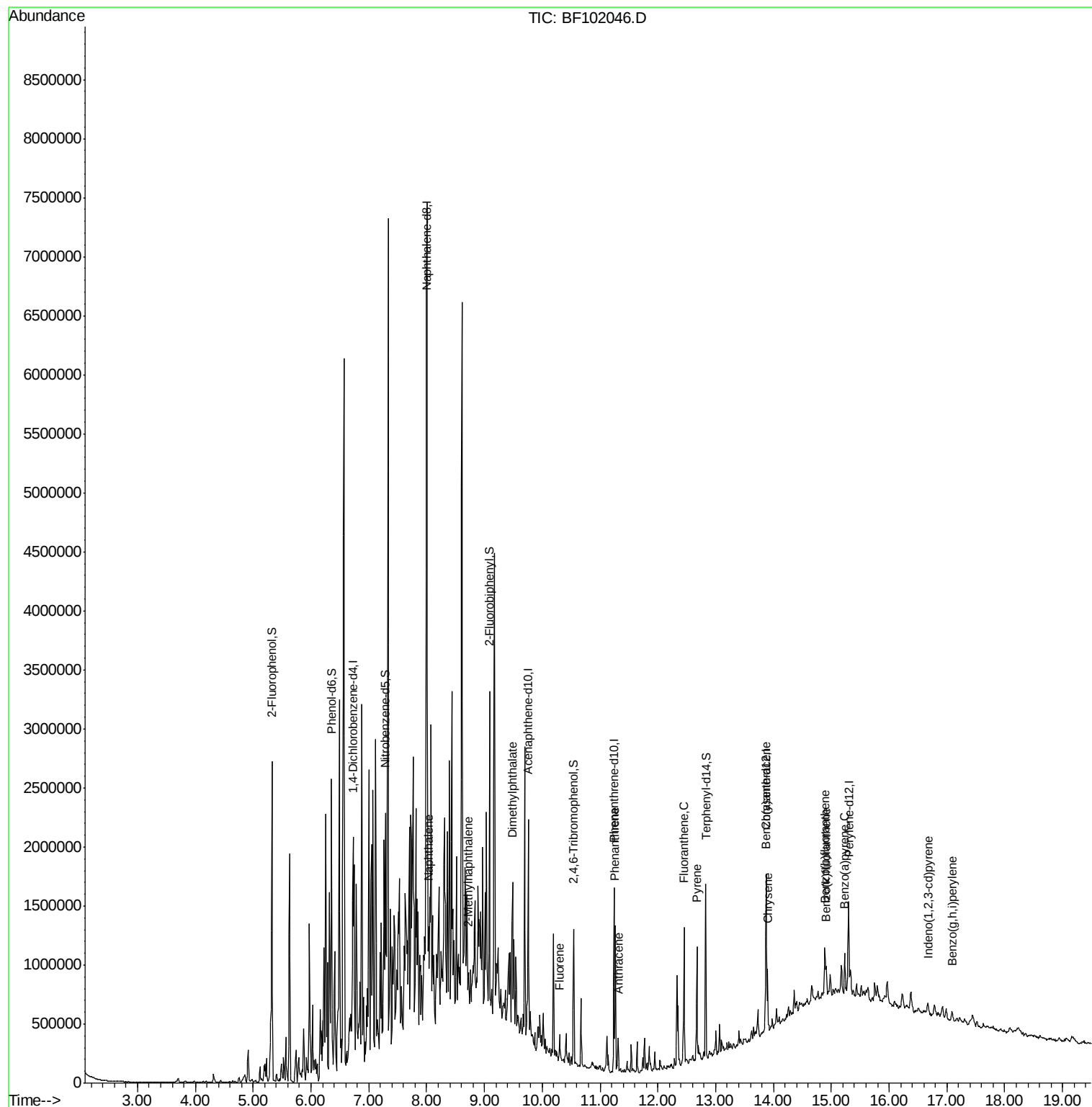
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA\_F\DATA\BF011218\  
Data File : BF102046.D  
Acq On : 12 Jan 2018 16:45  
Operator : SJ/JU  
Sample : J1011-10 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

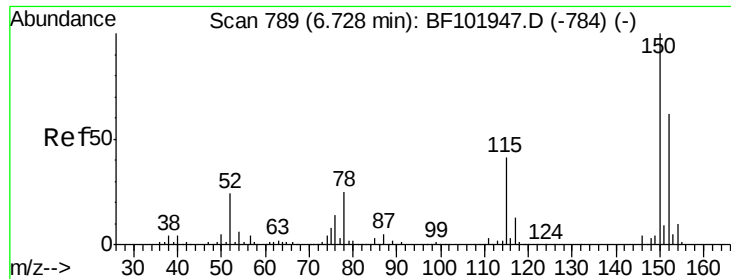
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-011118-A

Manual Integrations  
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1/15/2018 4:22:17 PM

Quant Time: Jan 13 00:41:21 2018  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 11 12:53:54 2018  
Response via : Initial Calibration





#1

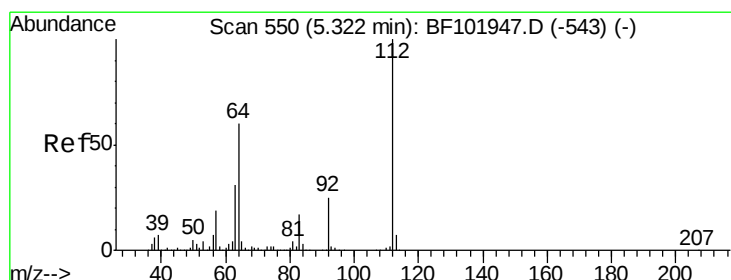
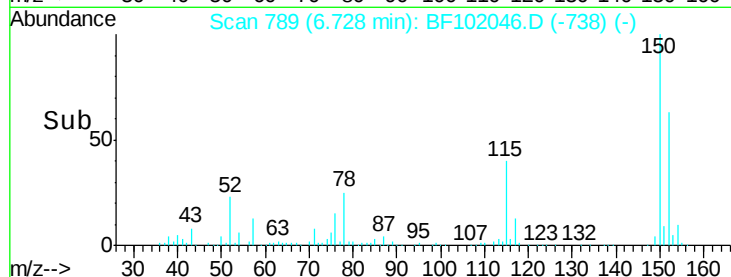
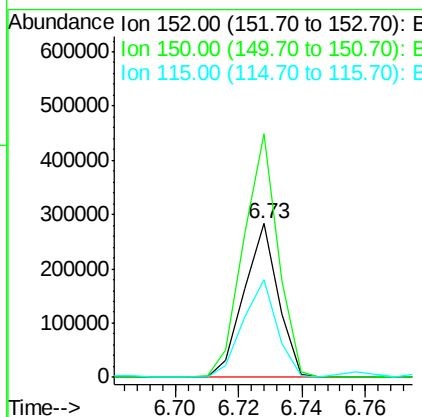
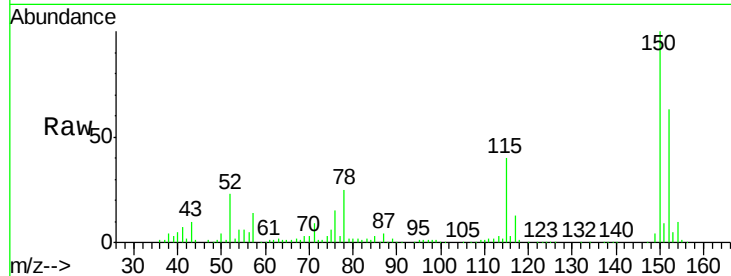
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. 0.00 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-011118-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.3 | 124.6 | 186.8 |
| 115     | 63.8  | 50.1  | 75.1  |

Manual Integrations  
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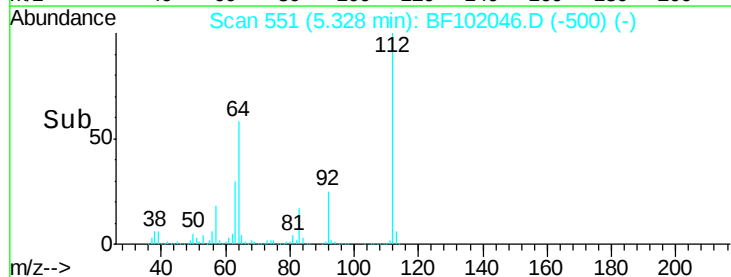
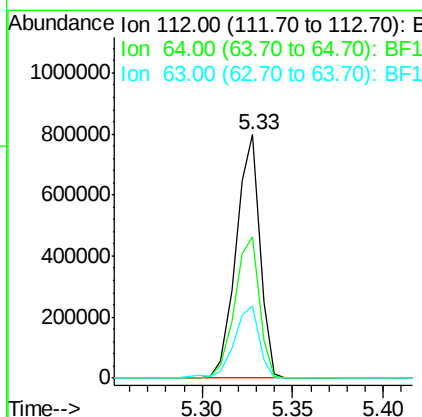
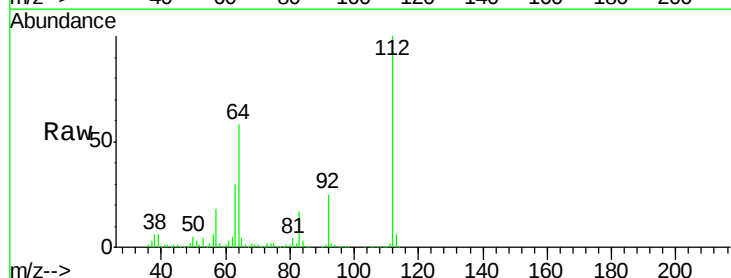
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#5

2-Fluorophenol  
Concen: 48.312 ng  
RT: 5.33 min Scan# 551  
Delta R.T. 0.00 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.9  | 47.9  | 71.9  |
| 63      | 29.7  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 48.782 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

Instrument :

BNA\_F

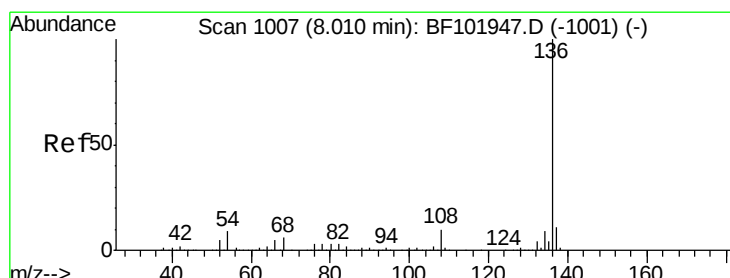
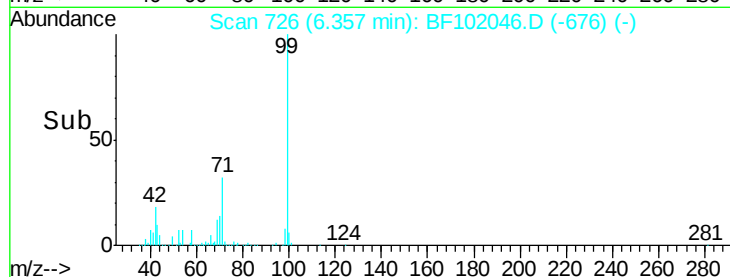
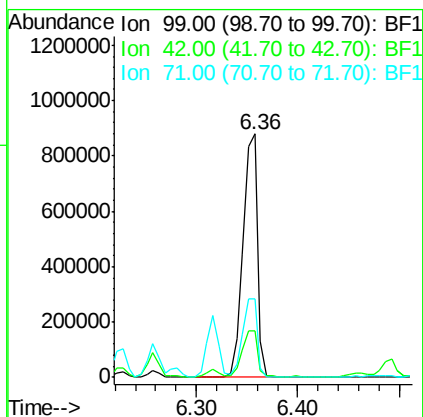
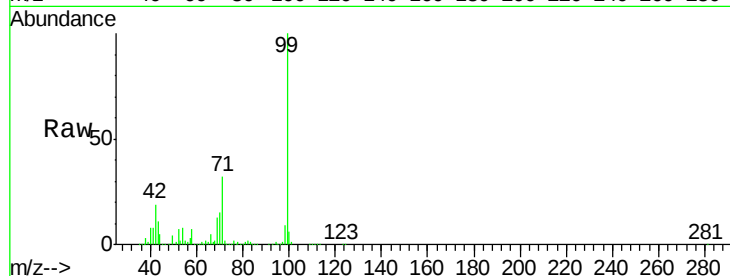
ClientSampleId :

HR-05-011118-A

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 877731 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 18.9  | 14.5  | 21.7   |
| 71       | 32.2  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

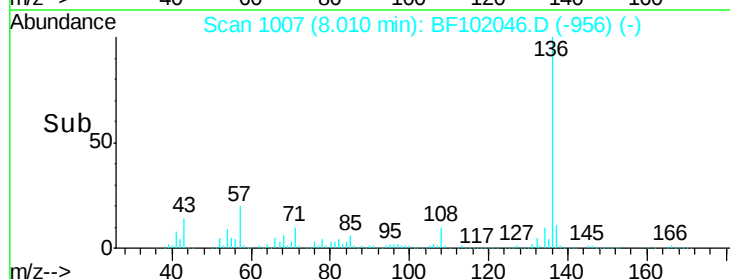
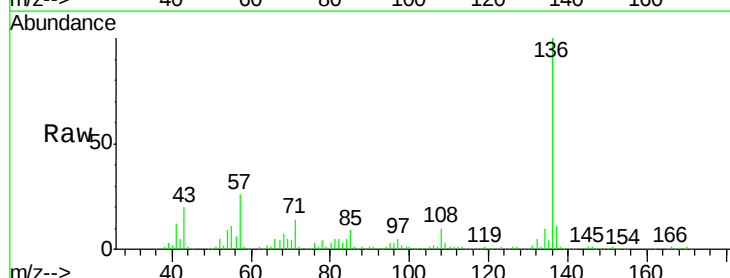
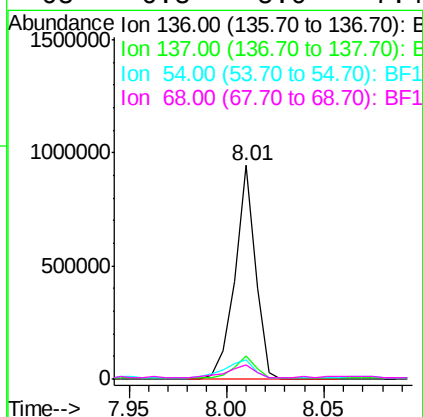
RT: 8.01 min Scan# 1007

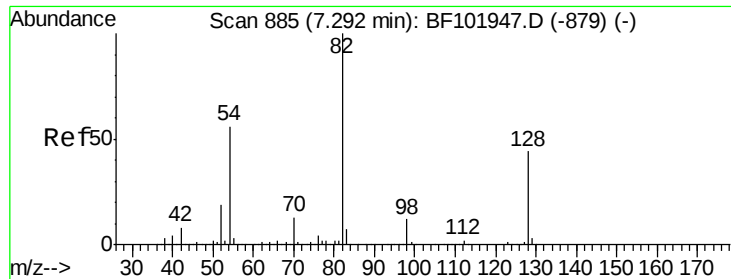
Delta R.T. 0.00 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 686574 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 9.3   | 6.6   | 9.8    |
| 68       | 6.8   | 5.0   | 7.4    |





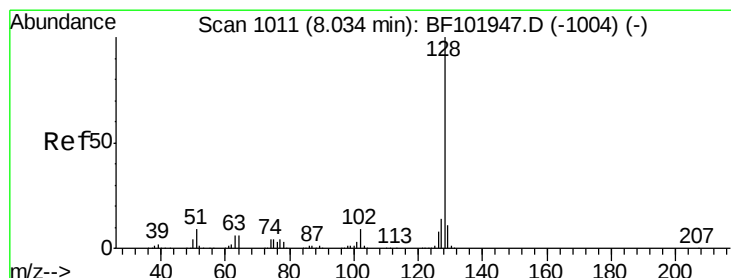
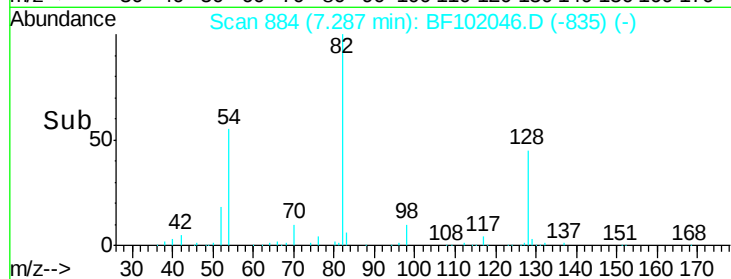
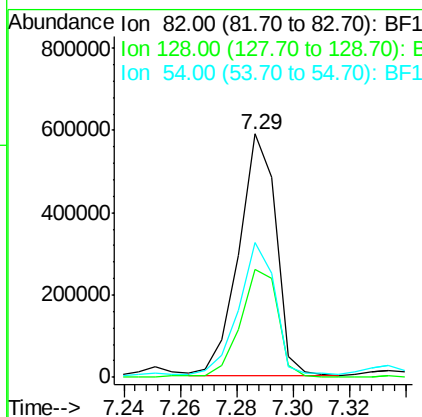
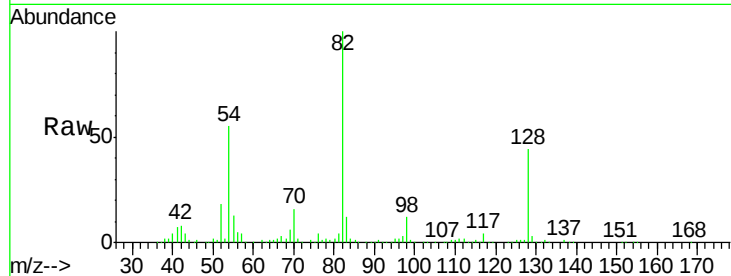
#23  
Nitrobenzene-d5  
Concen: 45.842 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-011118-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.5  | 36.1  | 54.1  |
| 54      | 55.4  | 41.4  | 62.2  |

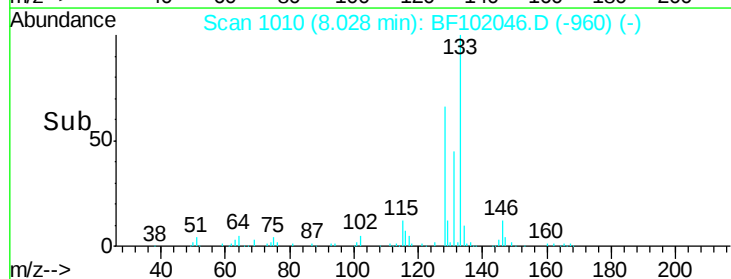
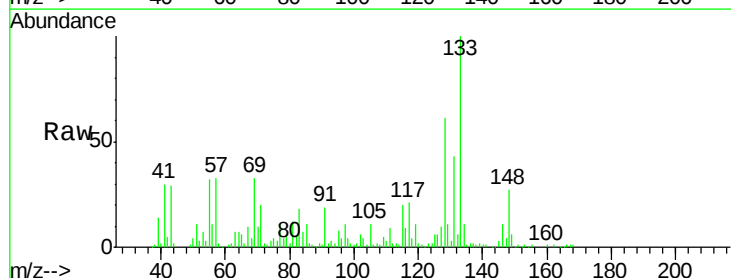
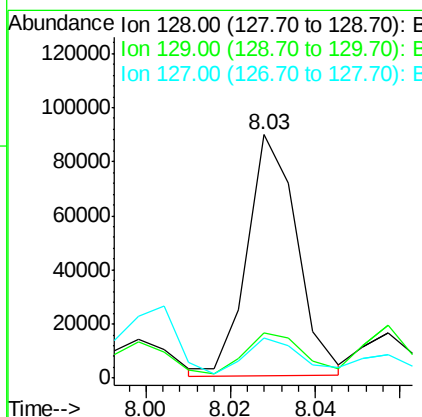
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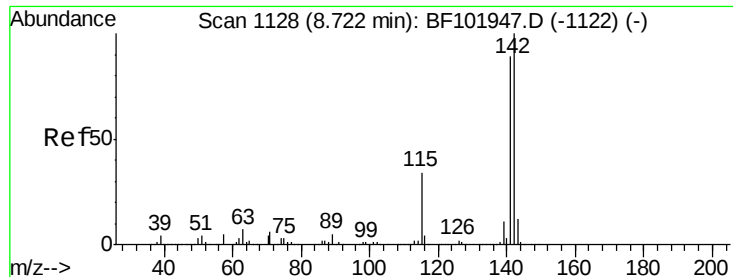
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#31  
Naphthalene  
Concen: 2.137 ng  
RT: 8.03 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 18.3  | 8.8   | 13.2# |
| 127     | 16.3  | 10.9  | 16.3  |





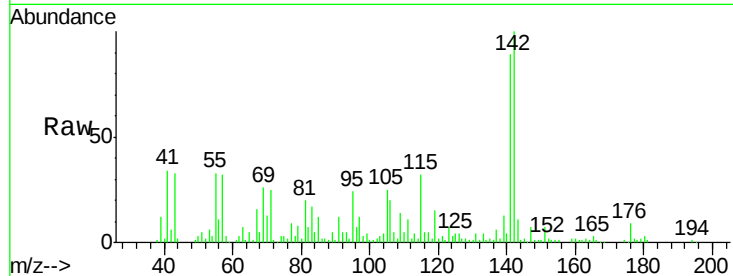
#37  
2-Methylnaphthalene  
Concen: 3.188 ng  
RT: 8.72 min Scan# 1128  
Delta R.T. 0.00 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-011118-A

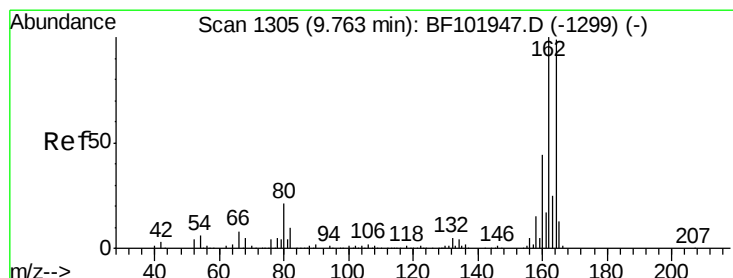
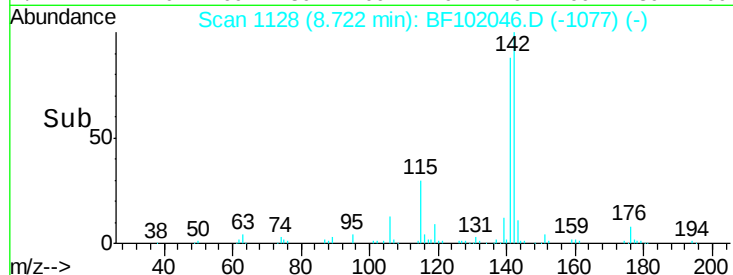
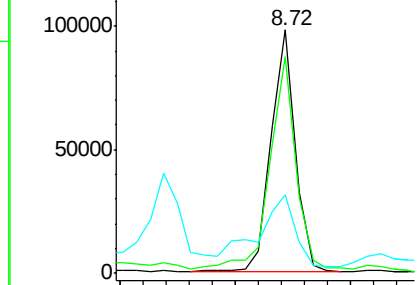
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.1  | 70.8  | 106.2 |
| 115     | 32.5  | 26.1  | 39.1  |

Manual Integrations  
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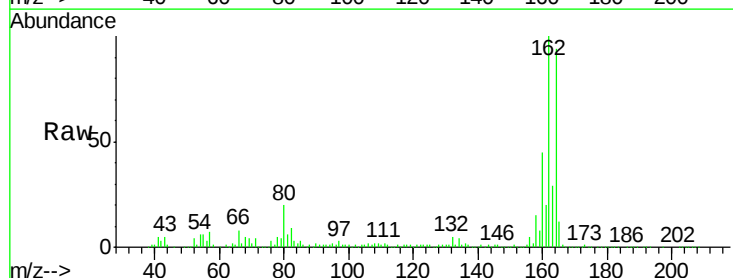


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

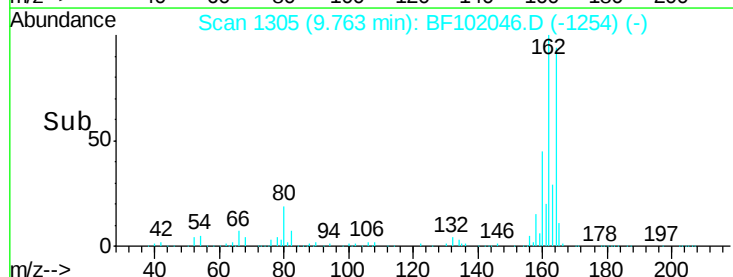
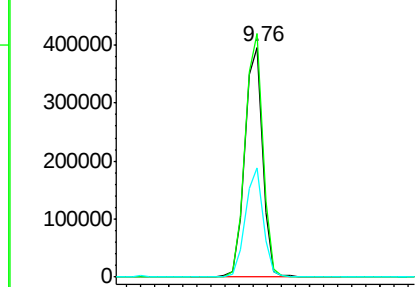


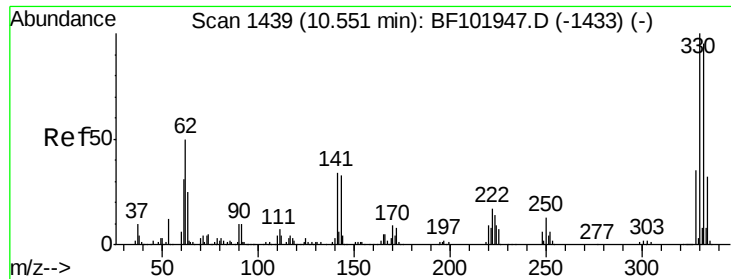
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. 0.00 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.1 | 86.1  | 129.1 |
| 160     | 47.8  | 38.3  | 57.5  |



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





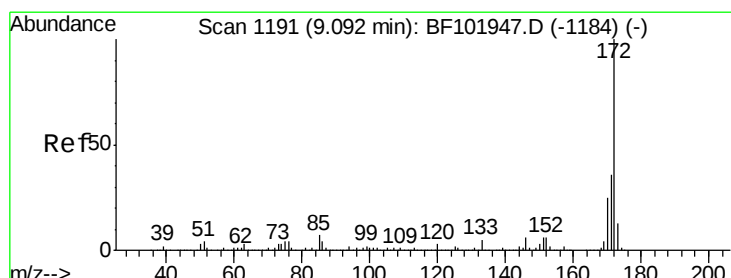
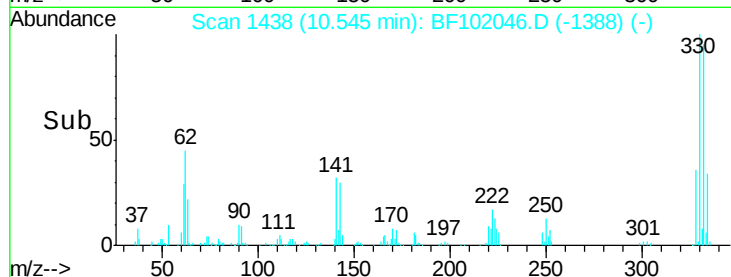
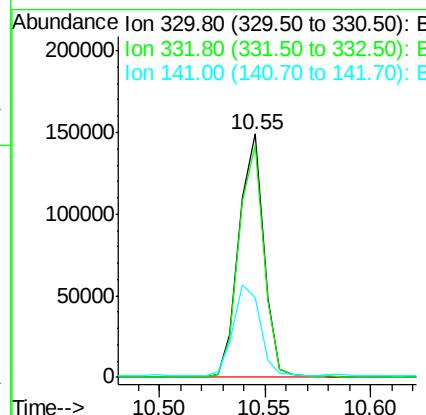
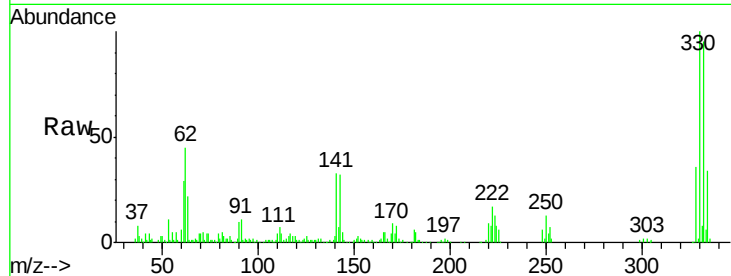
#41  
 2,4,6-Tribromophenol  
 Concen: 40.078 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF102046.D  
 Acq: 12 Jan 2018 16:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-011118-A

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 121696 |       |       |
| 332     | 96.8  | 77.0   | 115.6 |       |
| 141     | 40.7  | 29.9   | 44.9  |       |

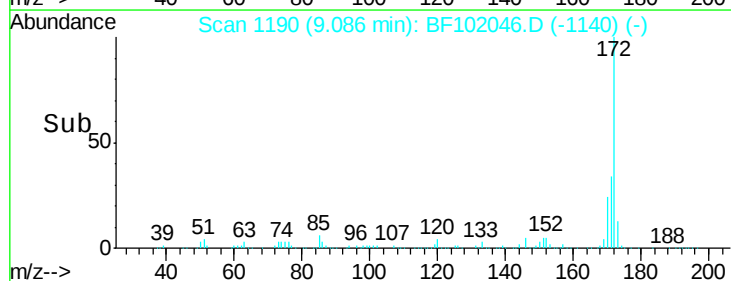
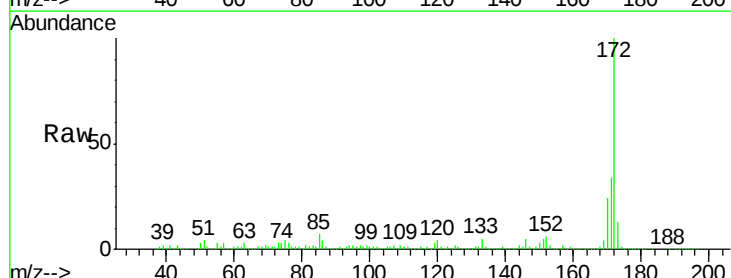
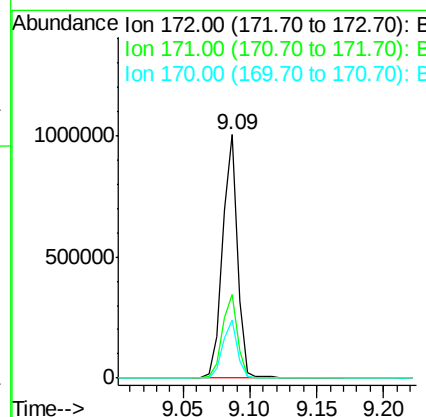
Manual Integrations  
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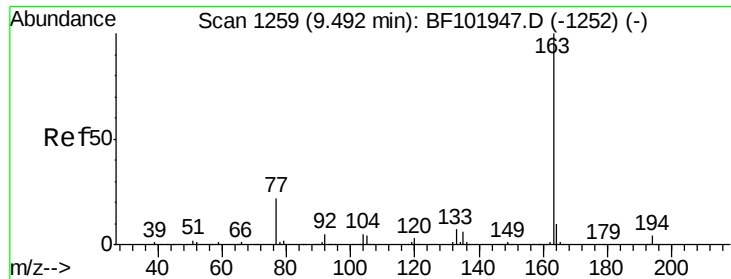
Sohil  
 1/15/2018 4:22:17 PM



#44  
 2-Fluorobiphenyl  
 Concen: 35.930 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF102046.D  
 Acq: 12 Jan 2018 16:45

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 800221 |       |       |
| 171     | 34.5  | 29.7   | 44.5  |       |
| 170     | 23.8  | 19.6   | 29.4  |       |





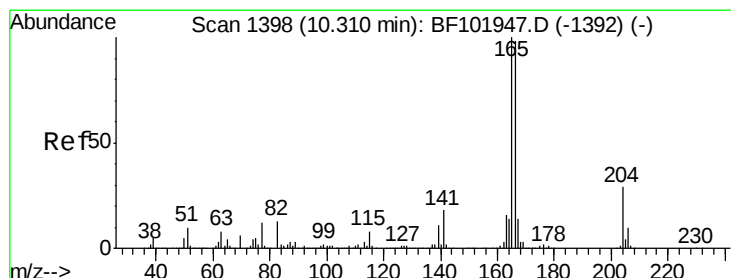
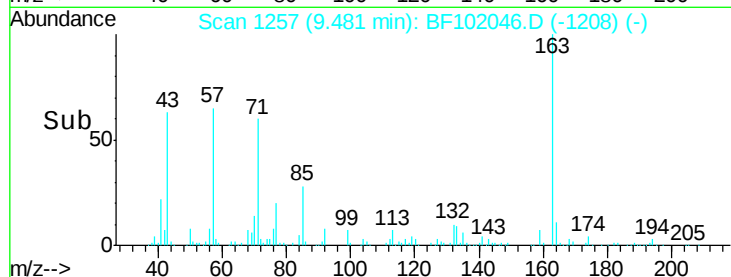
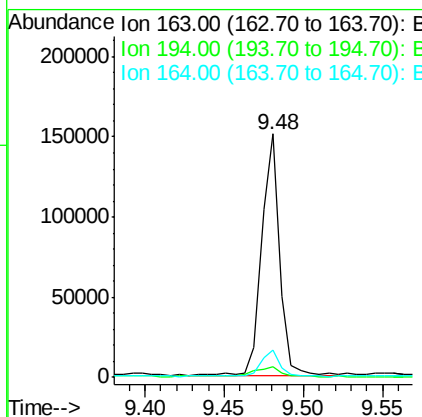
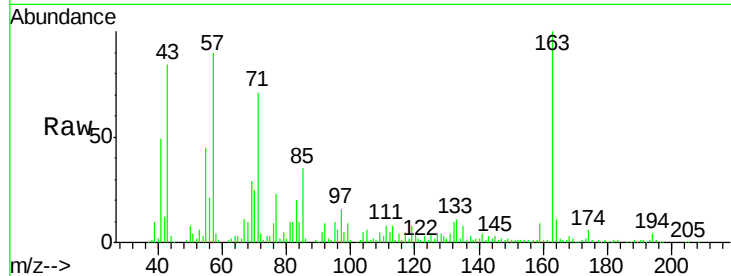
#49  
Dimethylphthalate  
Concen: 4.304 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.01 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-011118-A

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 120121 |       |       |
| 194     | 4.2   | 2.7    | 4.1#  |       |
| 164     | 11.1  | 8.2    | 12.2  |       |

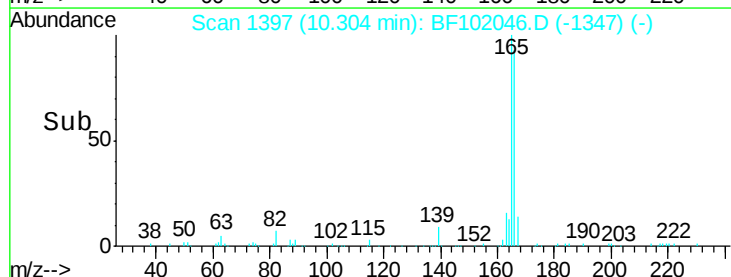
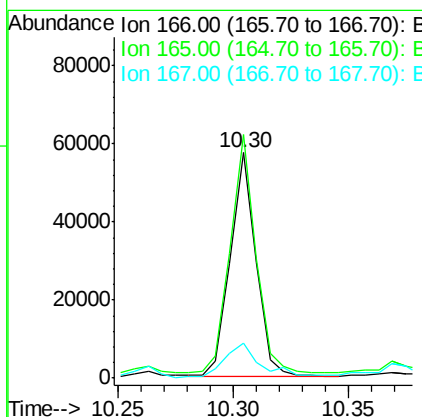
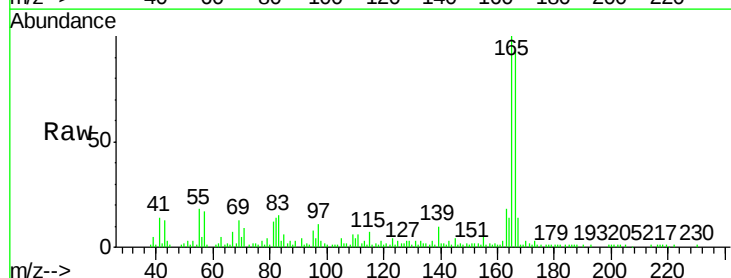
Manual Integrations  
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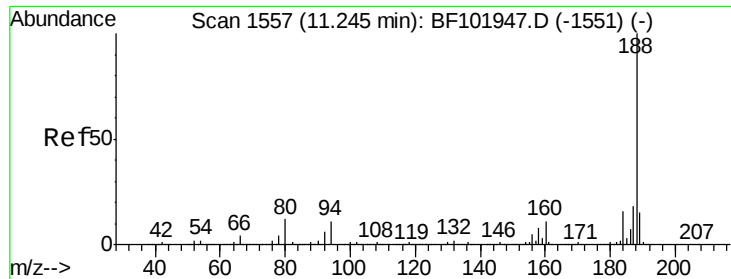
Sohil  
1/15/2018 4:22:17 PM



#57  
Fluorene  
Concen: 2.052 ng  
RT: 10.30 min Scan# 1397  
Delta R.T. -0.01 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 44713 |       |       |
| 165     | 107.9 | 79.8  | 119.8 |       |
| 167     | 15.4  | 10.6  | 16.0  |       |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

Instrument :

BNA\_F

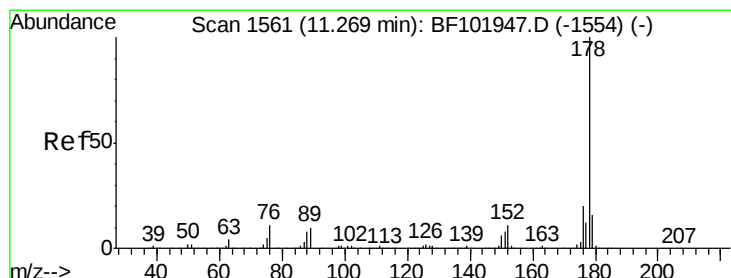
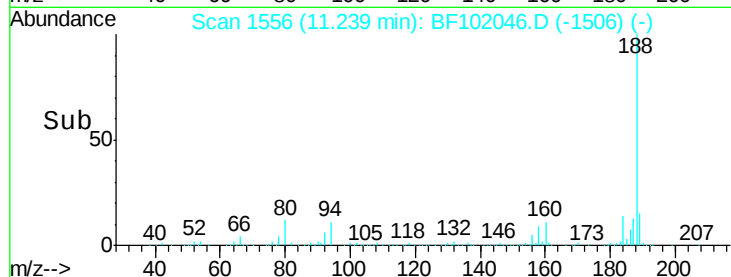
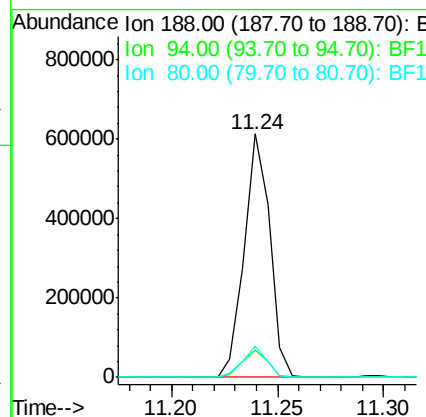
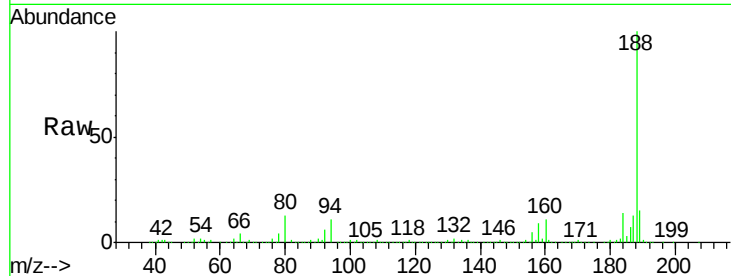
ClientSampleId :

HR-05-011118-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 515204 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.2  | 8.5   | 12.7   |
| 80        | 12.5  | 9.2   | 13.8   |

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#70

Phenanthrene

Concen: 13.285 ng

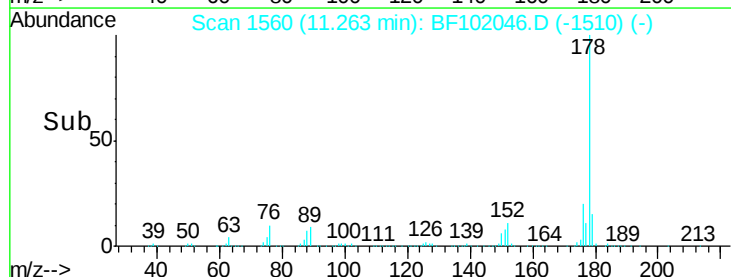
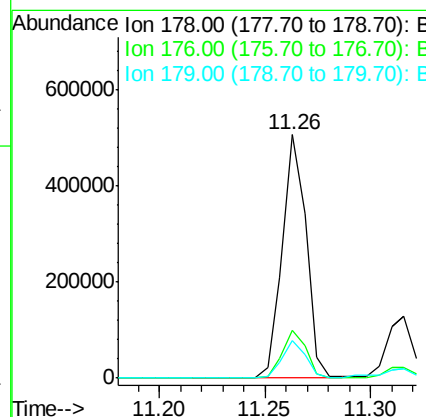
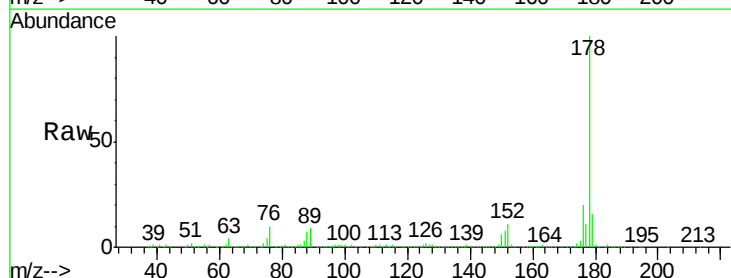
RT: 11.26 min Scan# 1560

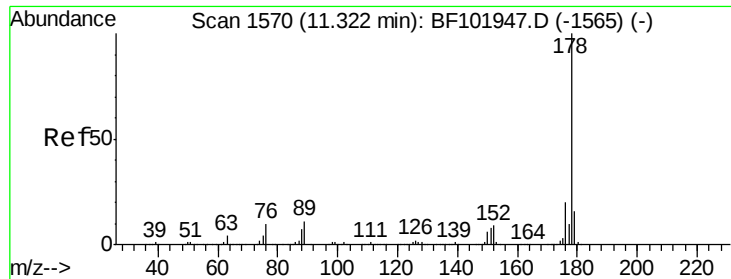
Delta R.T. -0.01 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 399798 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.9  | 15.8  | 23.8   |
| 179       | 15.6  | 13.0  | 19.6   |





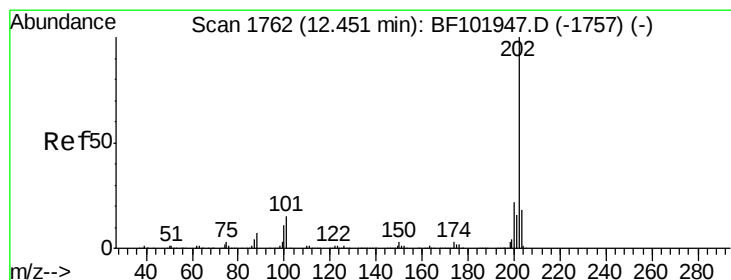
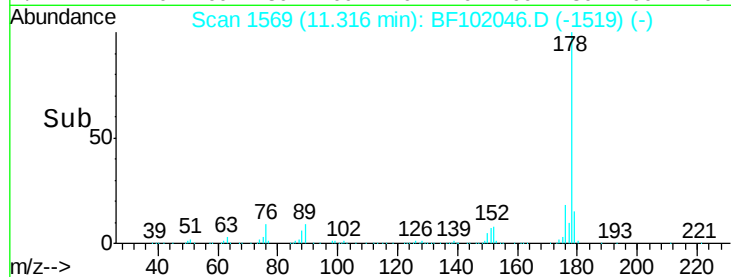
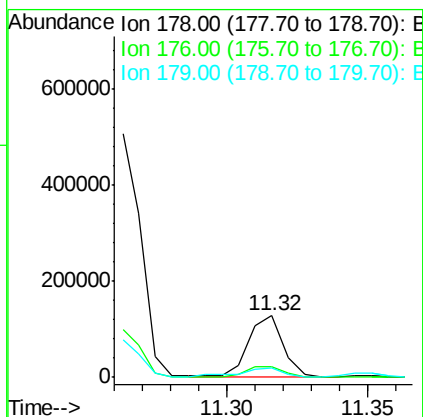
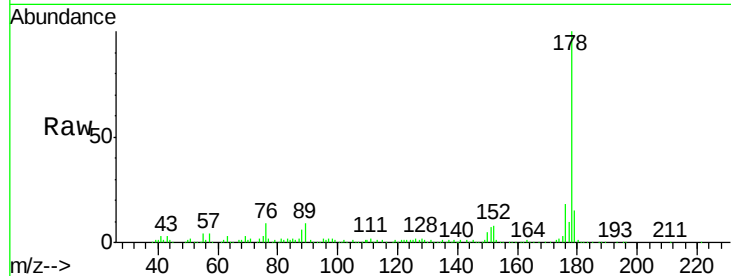
#71  
 Anthracene  
 Concen: 3.521 ng  
 RT: 11.32 min Scan# 1569  
 Delta R.T. -0.01 min  
 Lab File: BF102046.D  
 Acq: 12 Jan 2018 16:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-011118-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 15.4  | 23.2  |
| 179     | 15.3  | 12.6  | 19.0  |

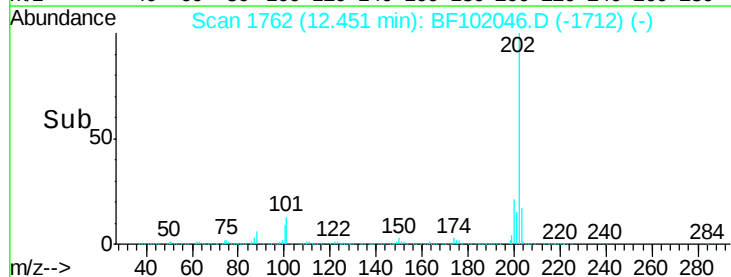
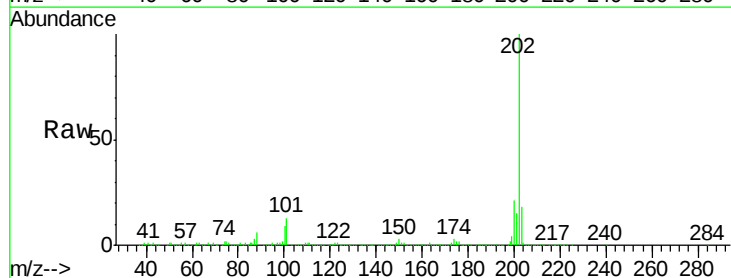
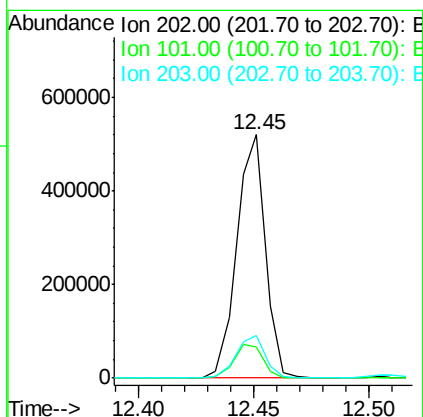
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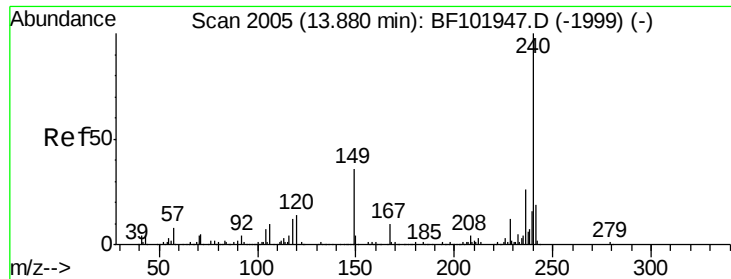
Sohil  
 1/15/2018 4:22:17 PM



#74  
 Fluoranthene  
 Concen: 15.083 ng  
 RT: 12.45 min Scan# 1762  
 Delta R.T. -0.01 min  
 Lab File: BF102046.D  
 Acq: 12 Jan 2018 16:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.7  | 0.0   | 34.1  |
| 203     | 17.6  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

Instrument :

BNA\_F

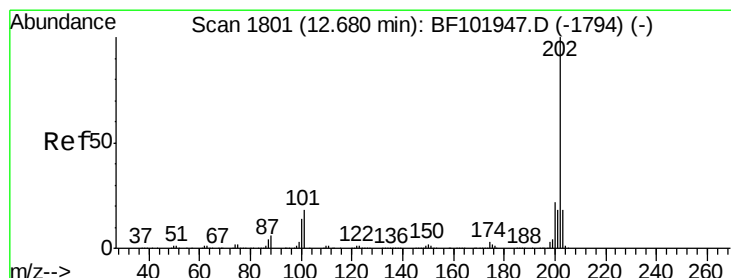
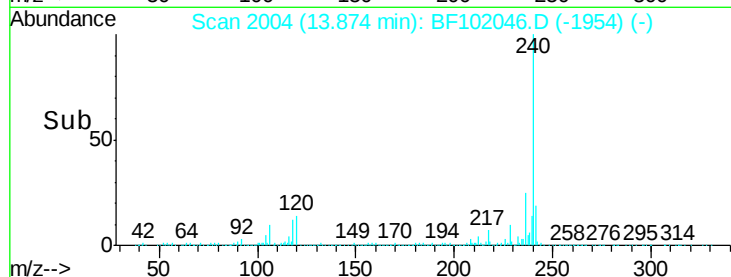
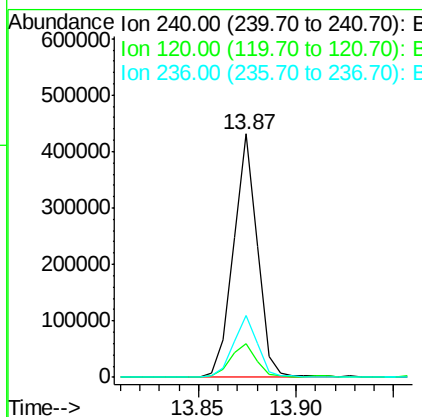
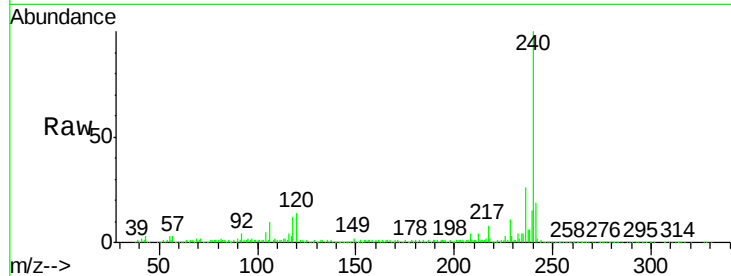
ClientSampleId :

HR-05-011118-A

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 240   | Resp: | 364510 |
| Ion | Ratio | Lower | Upper |        |
| 240 | 100   |       |       |        |
| 120 | 14.1  | 9.5   | 14.3  |        |
| 236 | 25.5  | 20.7  | 31.1  |        |

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#77

Pyrene

Concen: 11.902 ng

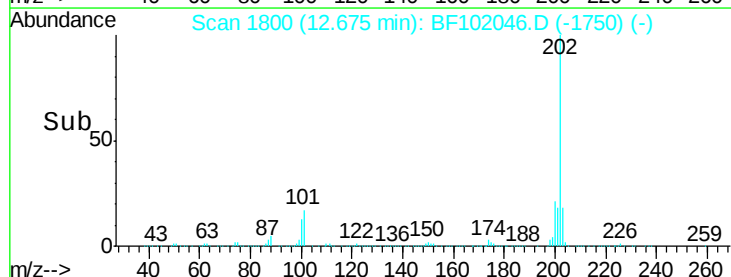
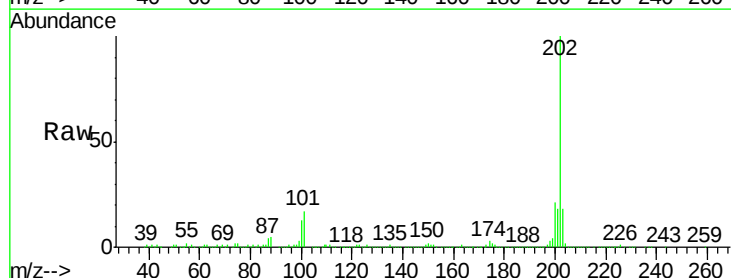
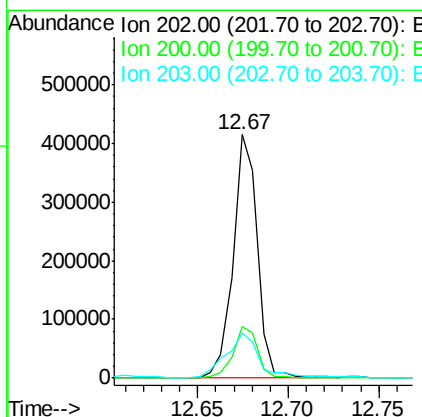
RT: 12.67 min Scan# 1800

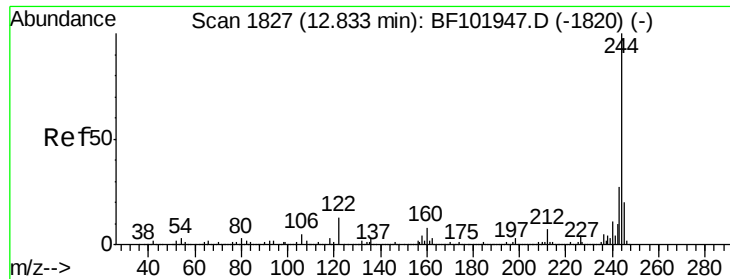
Delta R.T. -0.01 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 202   | Resp: | 383486 |
| Ion | Ratio | Lower | Upper |        |
| 202 | 100   |       |       |        |
| 200 | 21.3  | 17.4  | 26.2  |        |
| 203 | 18.3  | 14.3  | 21.5  |        |





#78

Terphenyl-d14

Concen: 28.052 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

Instrument :

BNA\_F

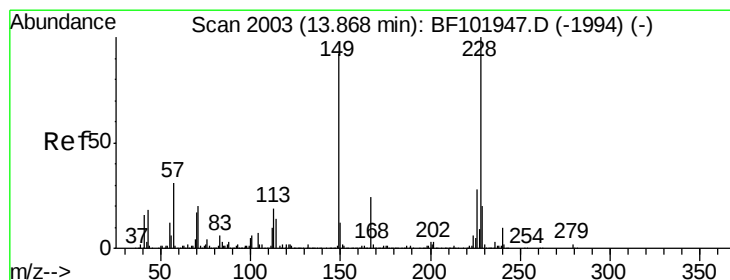
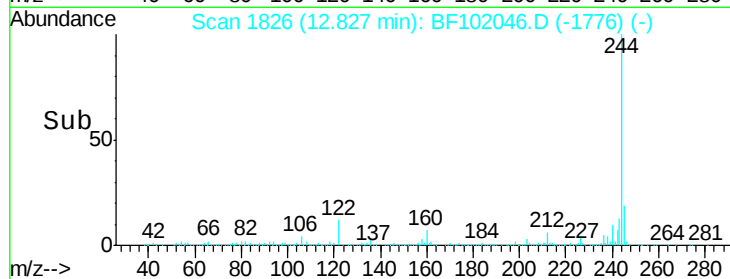
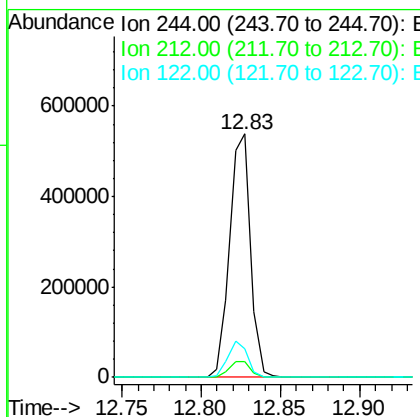
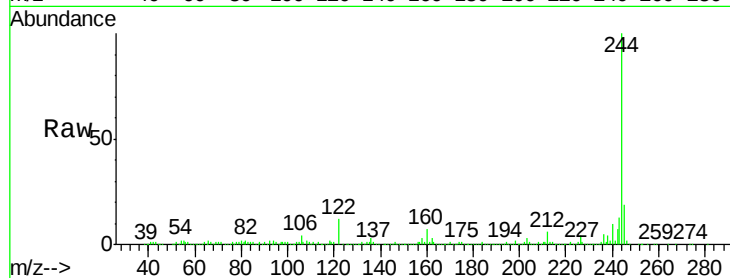
ClientSampleId :

HR-05-011118-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 492484 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.4   | 5.4   | 8.0    |
| 122       | 12.0  | 11.0  | 16.4   |

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#80

Benzo(a)anthracene

Concen: 9.094 ng

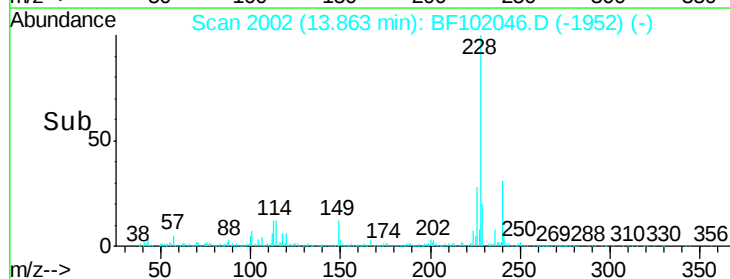
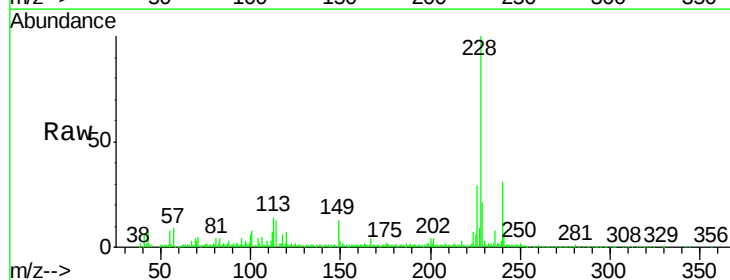
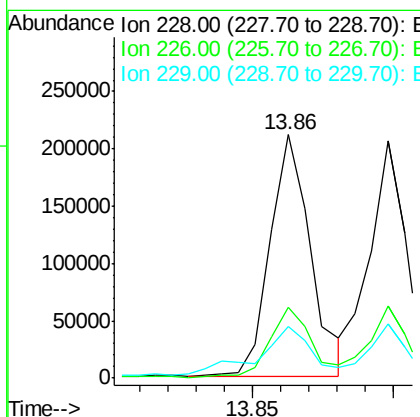
RT: 13.86 min Scan# 2002

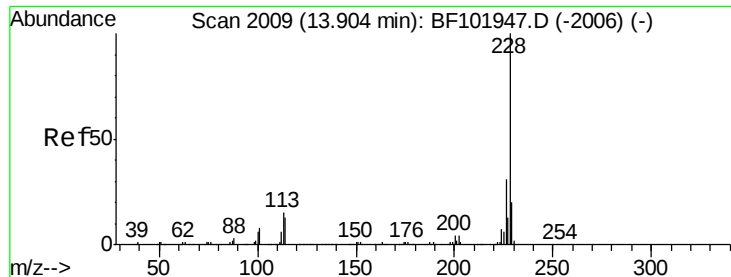
Delta R.T. -0.01 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 211488 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 28.9  | 22.6  | 33.8   |
| 229       | 21.1  | 15.8  | 23.6   |





#82

Chrysene

Concen: 7.623 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

Instrument :

BNA\_F

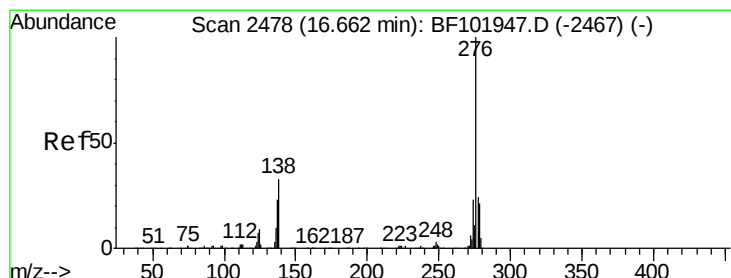
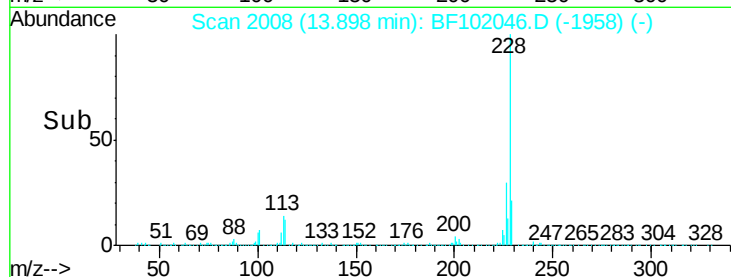
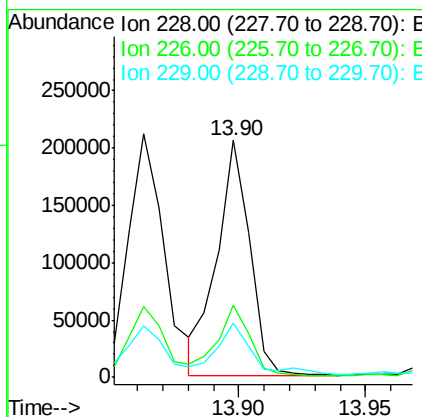
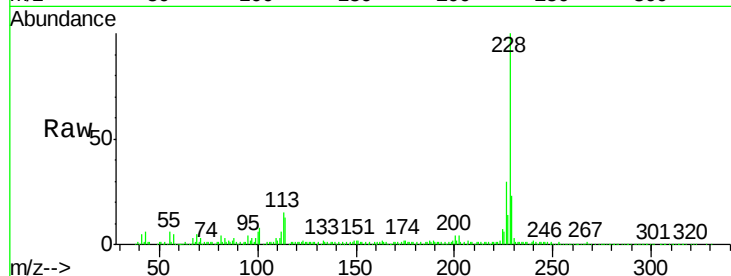
ClientSampleId :

HR-05-011118-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 184859 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.4  | 25.0  | 37.6   |
| 229       | 22.9  | 16.2  | 24.4   |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 3.942 ng

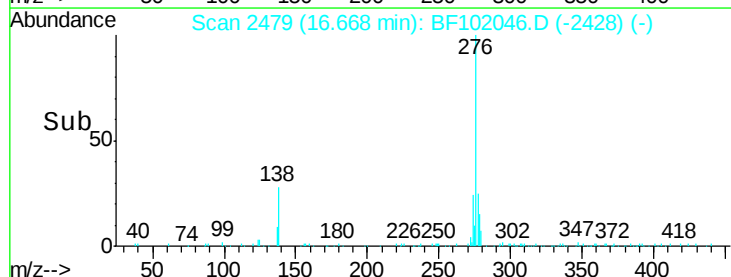
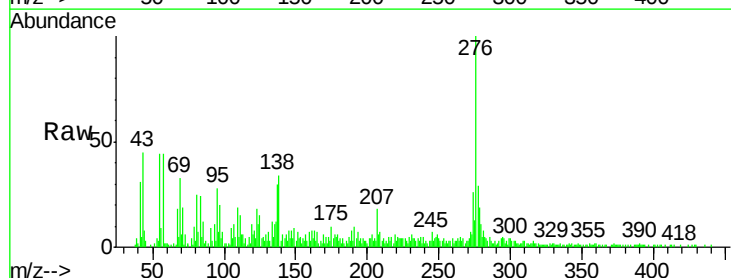
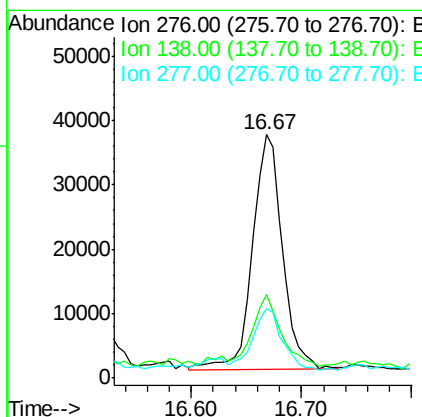
RT: 16.67 min Scan# 2479

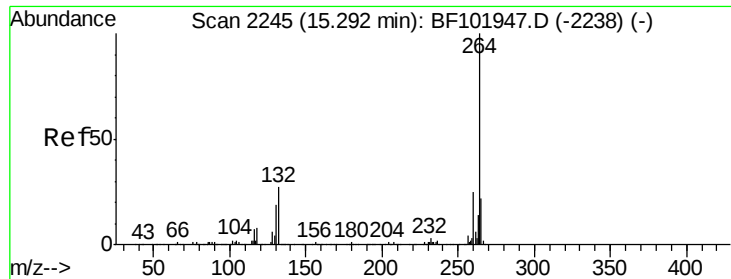
Delta R.T. 0.00 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 69579 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 27.8  | 25.0  | 37.6  |
| 277       | 24.5  | 20.1  | 30.1  |





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.30 min Scan# 2246

Delta R.T. 0.01 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

Instrument :

BNA\_F

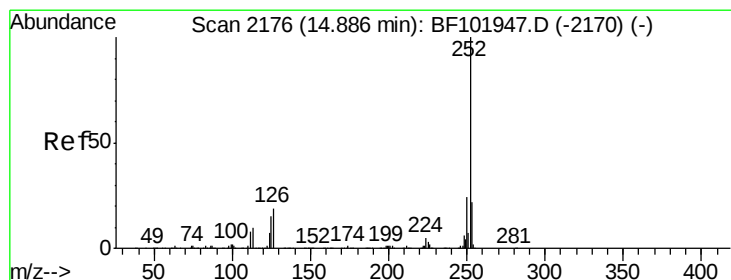
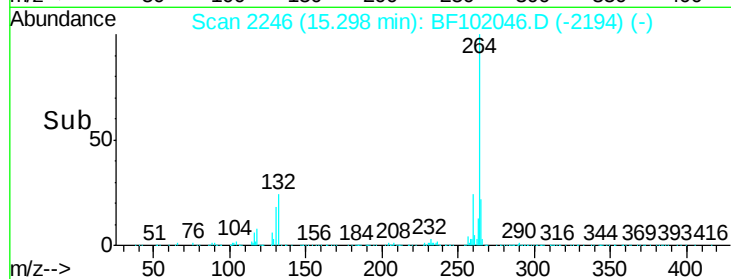
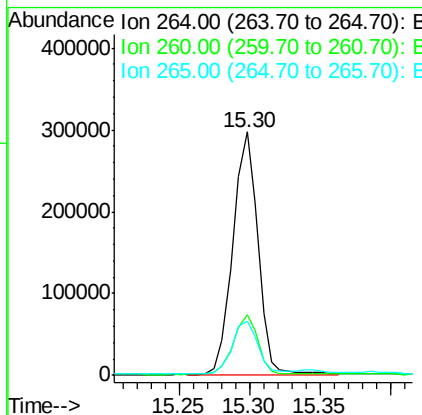
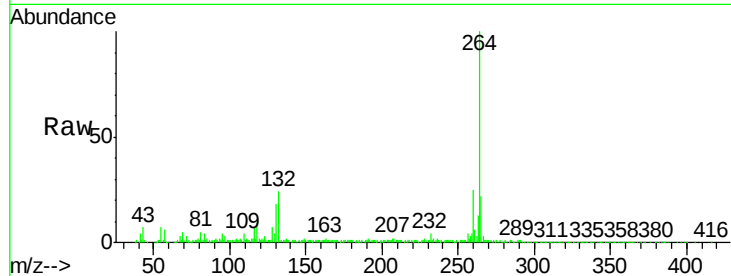
ClientSampleId :

HR-05-011118-A

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 264  | Resp: | 366623 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 24.7 | 19.2  | 28.8   |
| 265       | 22.5 | 17.5  | 26.3   |

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#87

Benzo(b)fluoranthene

Concen: 9.060 ng m

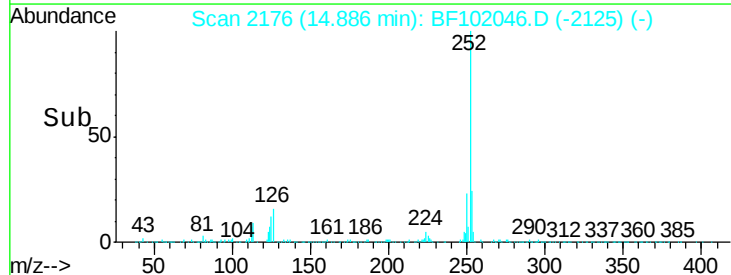
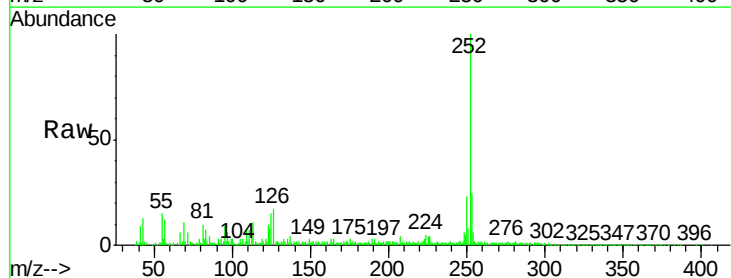
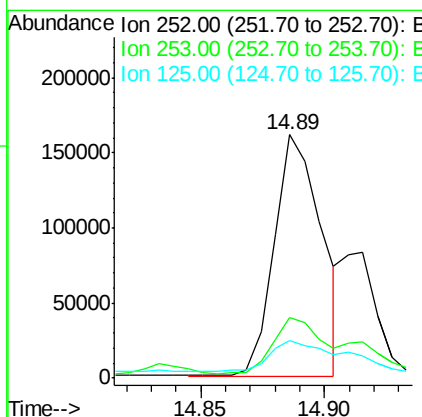
RT: 14.89 min Scan# 2176

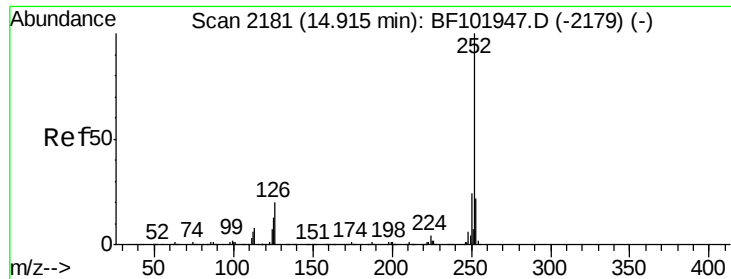
Delta R.T. 0.00 min

Lab File: BF102046.D

Acq: 12 Jan 2018 16:45

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 216583 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 24.8 | 17.0  | 25.6   |
| 125       | 15.2 | 9.0   | 13.6#  |





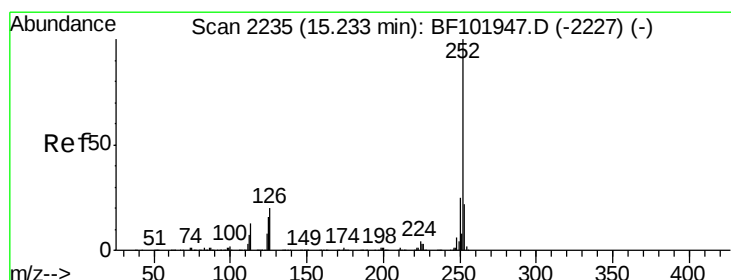
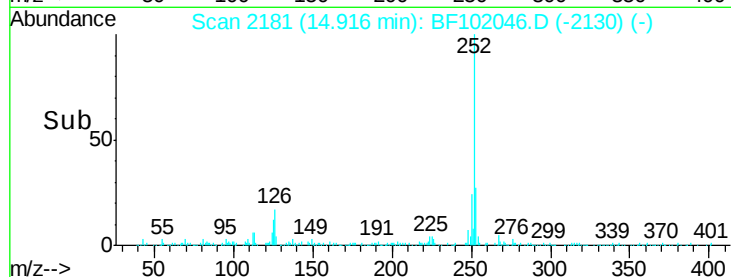
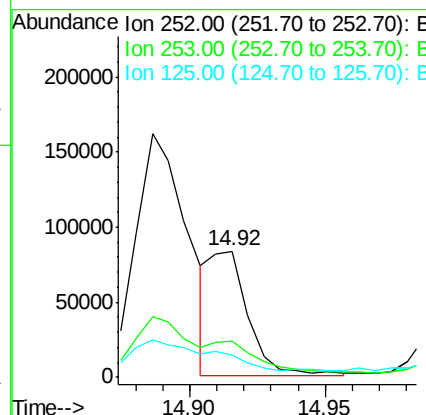
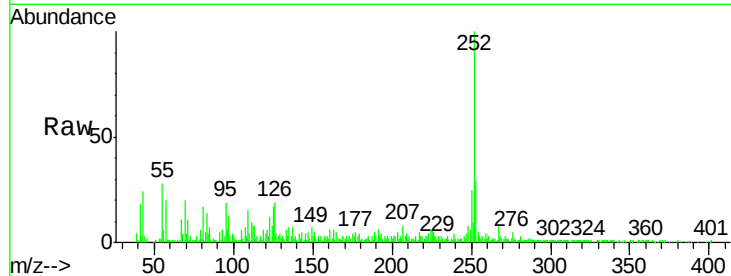
#88  
Benzo(k)fluoranthene  
Concen: 3.502 ng m  
RT: 14.92 min Scan# 2181  
Delta R.T. 0.00 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-011118-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.9  | 17.9  | 26.9# |
| 125     | 17.3  | 10.2  | 15.2# |

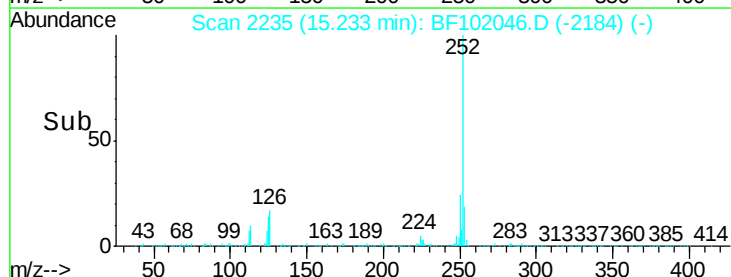
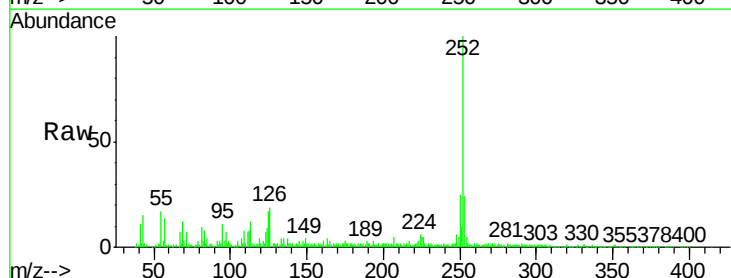
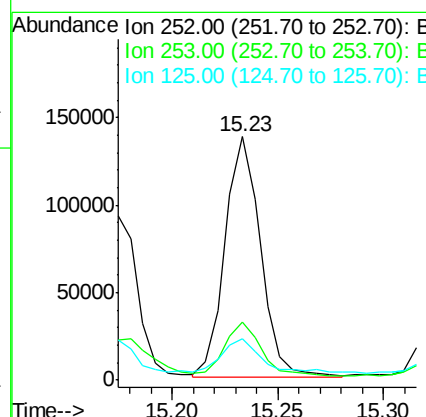
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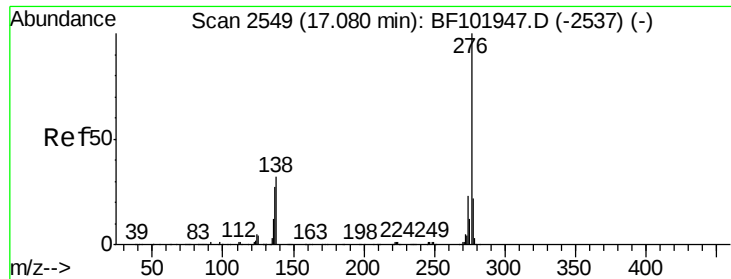
Sohil  
1/15/2018 4:22:17 PM



#89  
Benzo(a)pyrene  
Concen: 7.420 ng  
RT: 15.23 min Scan# 2235  
Delta R.T. 0.00 min  
Lab File: BF102046.D  
Acq: 12 Jan 2018 16:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.1  | 25.7  |
| 125     | 17.0  | 9.8   | 14.6# |





#91  
 Benzo(g,h,i)perylene  
 Concen: 3.677 ng  
 RT: 17.09 min Scan# 2550  
 Delta R.T. 0.00 min  
 Lab File: BF102046.D  
 Acq: 12 Jan 2018 16:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-011118-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.7  | 17.9  | 26.9# |
| 138     | 35.0  | 21.8  | 32.8# |

Manual Integrations  
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