

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081018\  
 Data File : BF108097.D  
 Acq On : 10 Aug 2018 21:18  
 Operator : JU/SJ  
 Sample : J4272-19 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-080918-J

Manual Integrations  
 APPROVED

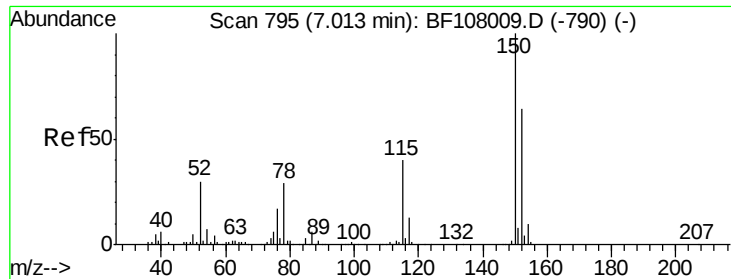
Sohil  
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Quant Time: Aug 11 02:10:05 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 08 12:24:24 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.02  | 152  | 285742   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.30  | 136  | 988173   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.07 | 164  | 415599   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.57 | 188  | 714572   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.22 | 240  | 583318   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.79 | 264  | 388987   | 20.00 | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.64  | 112  | 912762   | 57.83 | ng    | 0.00     |
| 7) Phenol-d6                | 6.63  | 99   | 1213336  | 57.85 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.58  | 82   | 745059   | 42.07 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.86 | 330  | 219304   | 52.90 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.38  | 172  | 1169527  | 45.18 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.15 | 244  | 1028068  | 44.81 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.77  | 163  | 96379    | 3.329 | ng    | 99       |
| 70) Phenanthrene            | 11.59 | 178  | 98062    | 2.910 | ng    | 99       |
| 74) Fluoranthene            | 12.78 | 202  | 254132   | 6.909 | ng    | 95       |
| 77) Pyrene                  | 13.02 | 202  | 235957   | 6.389 | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.21 | 228  | 114849   | 3.431 | ng    | 95       |
| 82) Chrysene                | 14.25 | 228  | 104847m  | 3.416 | ng    |          |
| 87) Benzo(b)fluoranthene    | 15.32 | 252  | 96476m   | 4.151 | ng    |          |
| 89) Benzo(a)pyrene          | 15.72 | 252  | 64459    | 3.097 | ng    | # 84     |
| 91) Benzo(g,h,i)perylene    | 17.91 | 276  | 34237    | 2.019 | ng    | # 82     |

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





#1

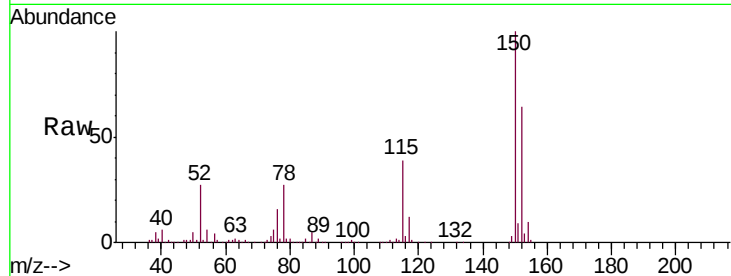
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.02 min Scan# 796  
Delta R.T. 0.01 min  
Lab File: BF108097.D  
Acq: 10 Aug 2018 21:18

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-080918-J

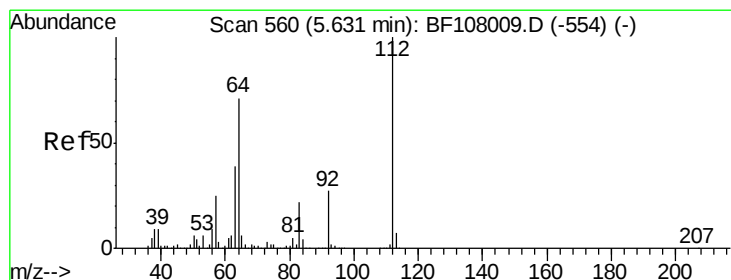
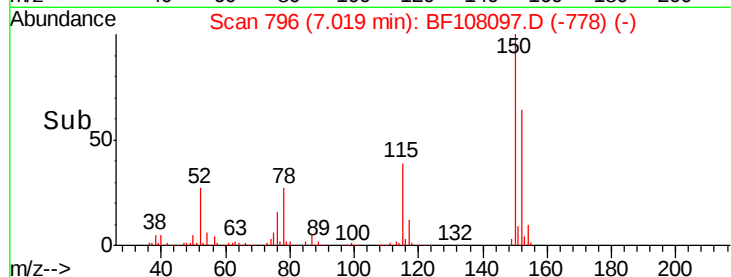
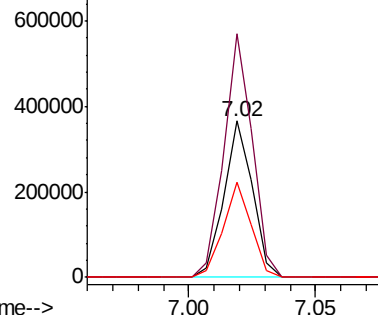
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.5 | 124.6 | 186.8 |
| 115     | 60.4  | 50.1  | 75.1  |

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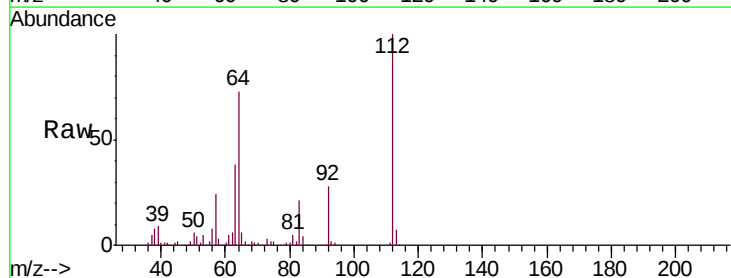
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



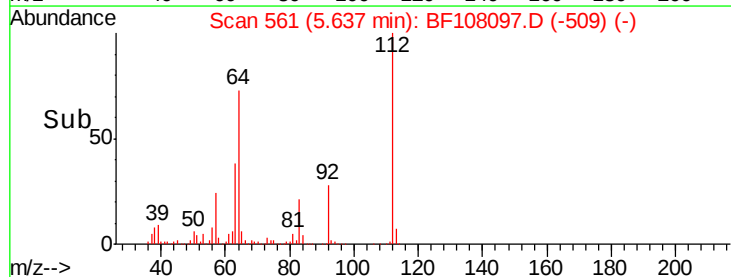
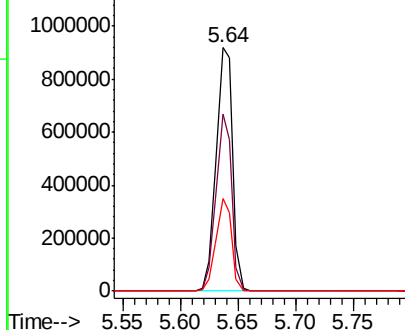
#5

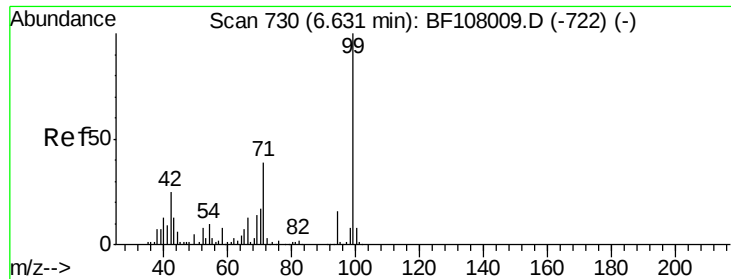
2-Fluorophenol  
Concen: 57.832 ng  
RT: 5.64 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: BF108097.D  
Acq: 10 Aug 2018 21:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 72.8  | 47.9  | 71.9# |
| 63      | 38.0  | 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: 57.851 ng

RT: 6.63 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF108097.D

Acq: 10 Aug 2018 21:18

Instrument :

BNA\_F

ClientSampleId :

JC-03-080918-J

Tgt Ion: 99 Resp: 1213336

Ion Ratio Lower Upper

99 100

42 24.0 14.5 21.7#

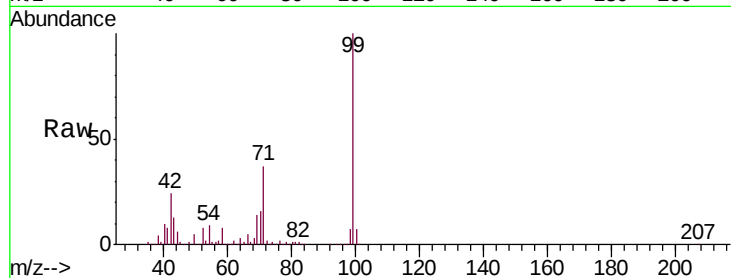
71 37.4 25.4 38.0

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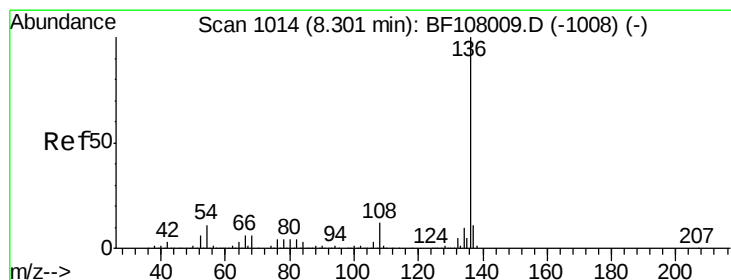
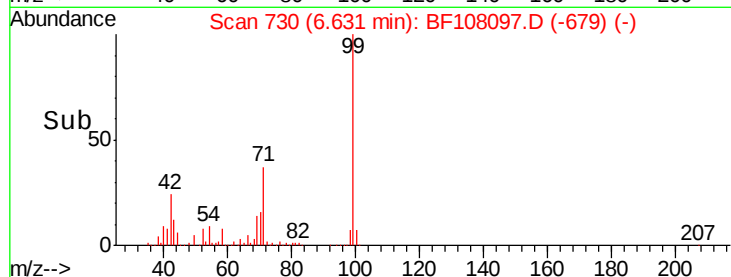
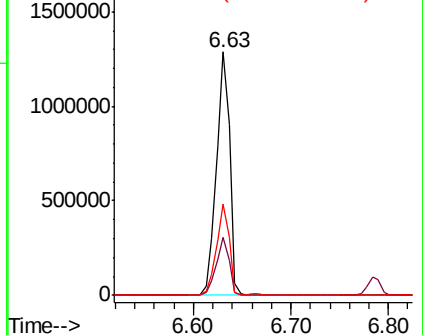
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.30 min Scan# 1014

Delta R.T. -0.00 min

Lab File: BF108097.D

Acq: 10 Aug 2018 21:18

Tgt Ion: 136 Resp: 988173

Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 10.8 6.6 9.8#

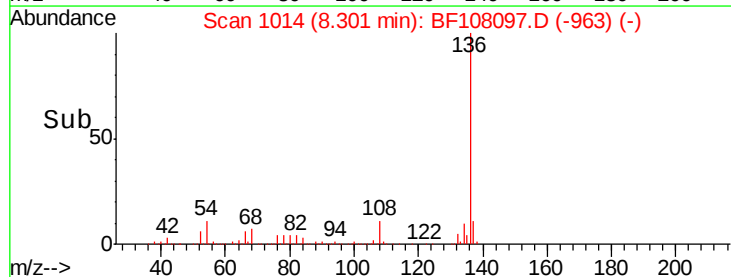
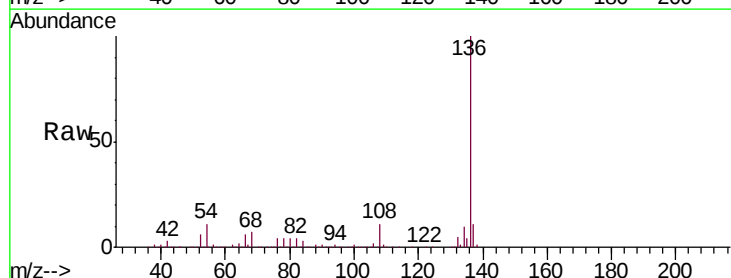
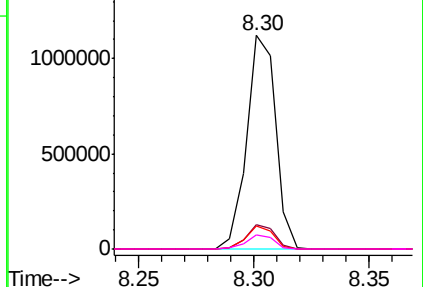
68 6.7 5.0 7.4

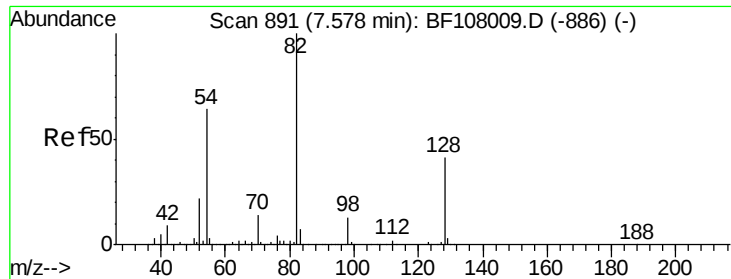
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





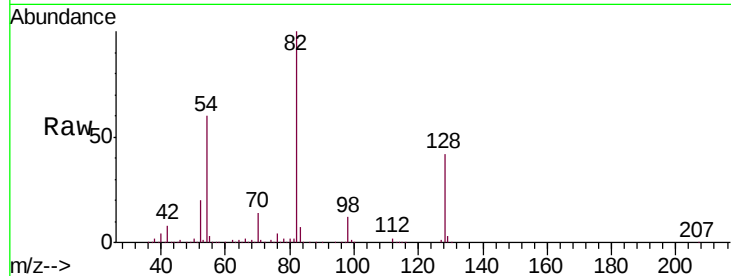
#23  
 Nitrobenzene-d5  
 Concen: 42.073 ng  
 RT: 7.58 min Scan# 891  
 Delta R.T. -0.00 min  
 Lab File: BF108097.D  
 Acq: 10 Aug 2018 21:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-080918-J

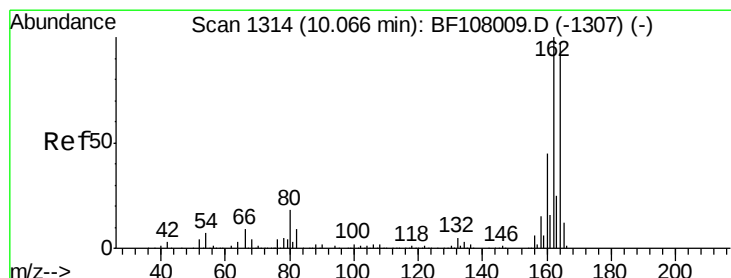
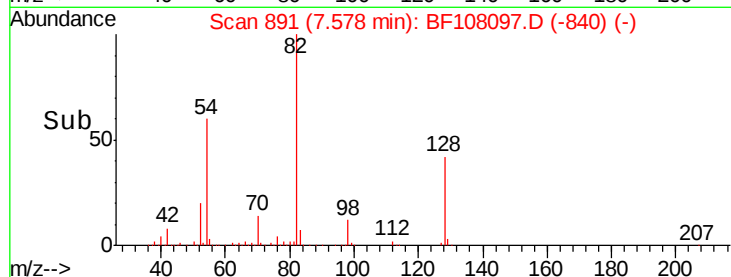
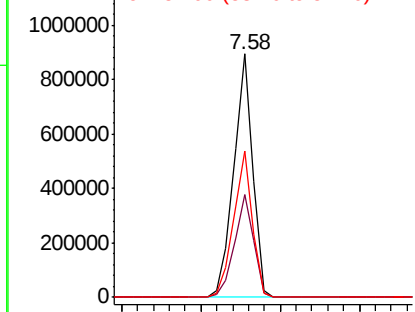
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 745059 |       |       |
| 128     | 42.4  | 36.1   | 54.1  |       |
| 54      | 59.9  | 41.4   | 62.2  |       |

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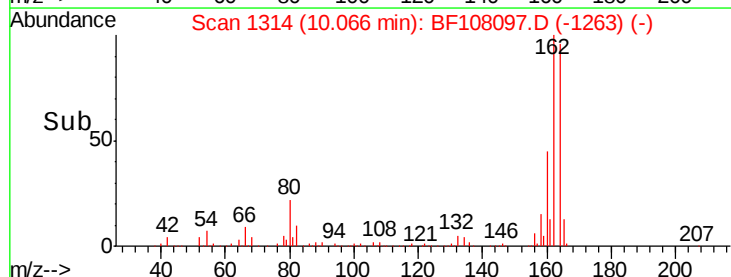
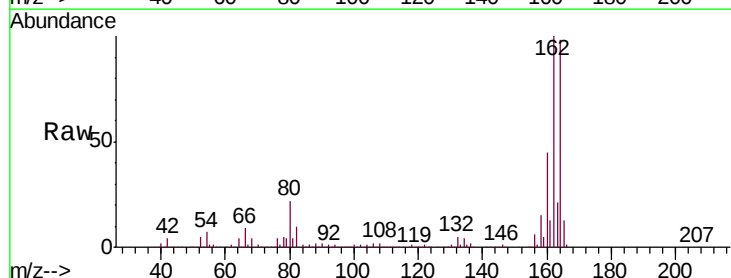
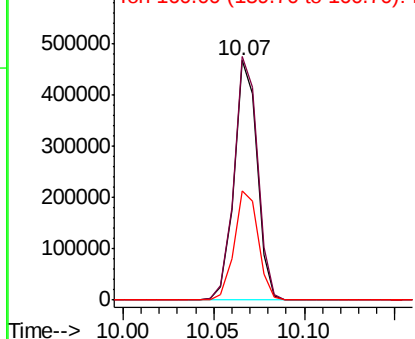
Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF1

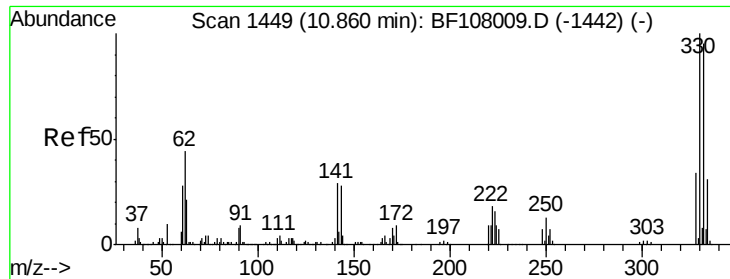


#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.07 min Scan# 1314  
 Delta R.T. -0.00 min  
 Lab File: BF108097.D  
 Acq: 10 Aug 2018 21:18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 415599 |       |       |
| 162     | 101.6 | 86.1   | 129.1 |       |
| 160     | 45.5  | 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





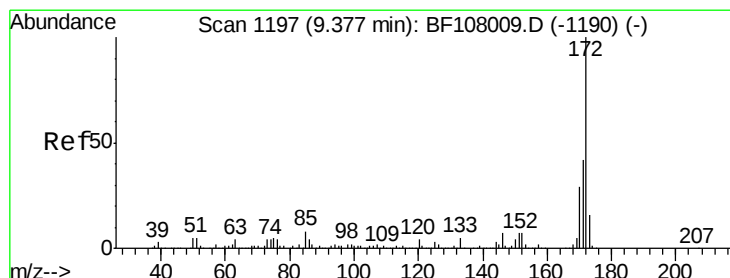
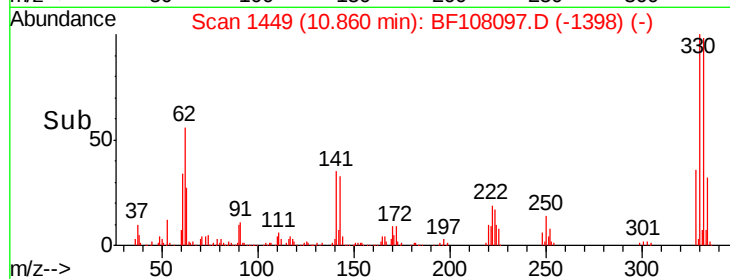
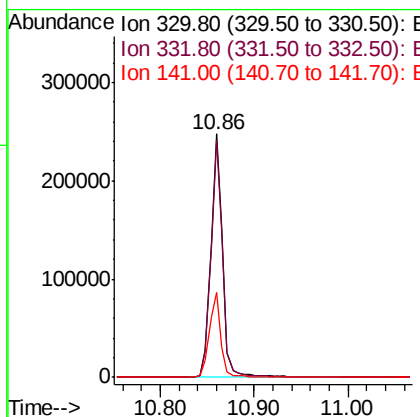
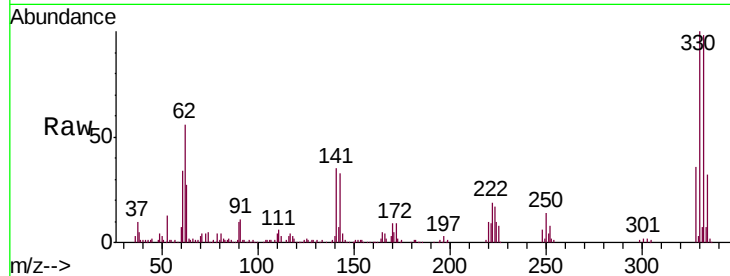
#41  
 2,4,6-Tribromophenol  
 Concen: 52.902 ng  
 RT: 10.86 min Scan# 1449  
 Delta R.T. -0.00 min  
 Lab File: BF108097.D  
 Acq: 10 Aug 2018 21:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-080918-J

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 219304 |       |       |
| 332     | 96.8  | 77.0   | 115.6 |       |
| 141     | 34.7  | 29.9   | 44.9  |       |

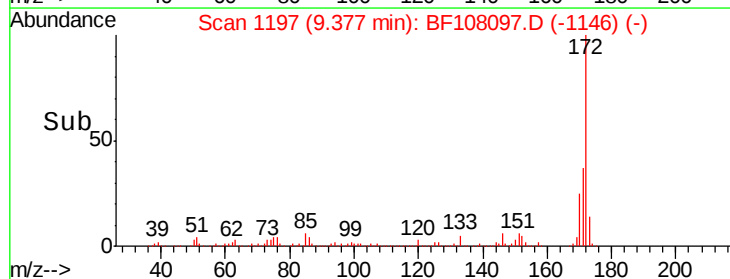
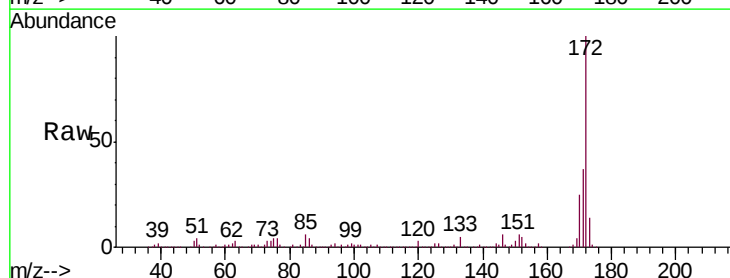
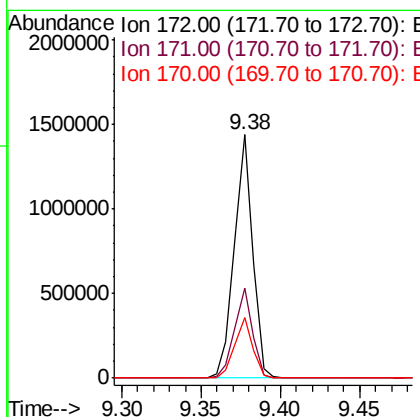
Manual Integrations  
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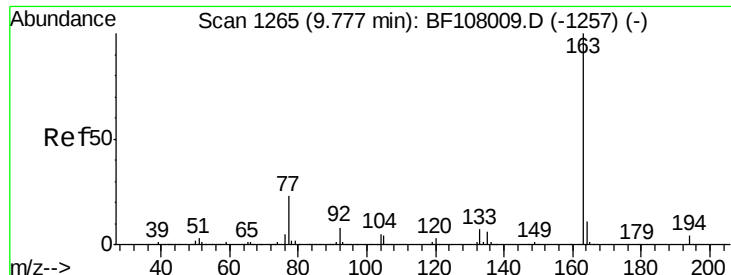
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#44  
 2-Fluorobiphenyl  
 Concen: 45.179 ng  
 RT: 9.38 min Scan# 1197  
 Delta R.T. -0.00 min  
 Lab File: BF108097.D  
 Acq: 10 Aug 2018 21:18

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1169527 |       |       |
| 171     | 36.7  | 29.7    | 44.5  |       |
| 170     | 24.9  | 19.6    | 29.4  |       |





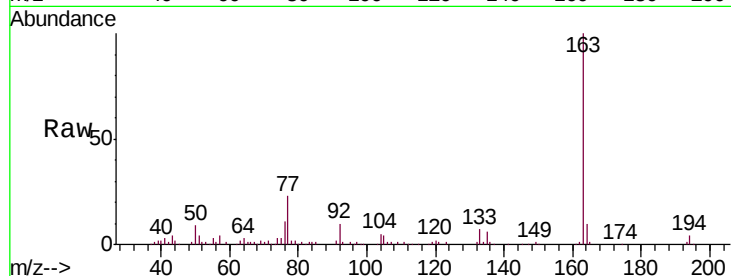
#49  
Dimethylphthalate  
Concen: 3.329 ng  
RT: 9.77 min Scan# 1263  
Delta R.T. -0.01 min  
Lab File: BF108097.D  
Acq: 10 Aug 2018 21:18

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-080918-J

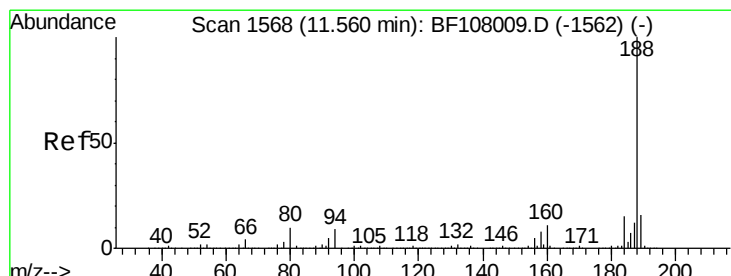
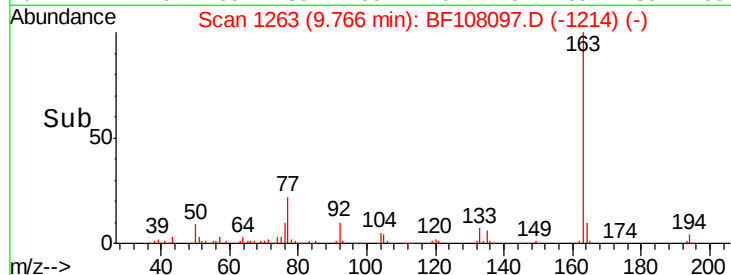
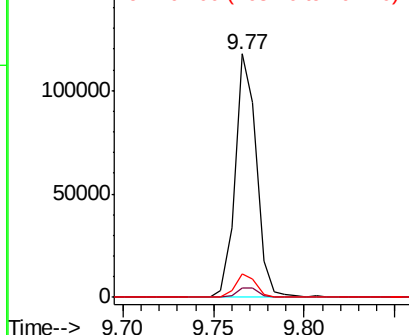
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 96379 |       |       |
| 194     | 3.8   |       | 2.7   | 4.1   |
| 164     | 9.7   |       | 8.2   | 12.2  |

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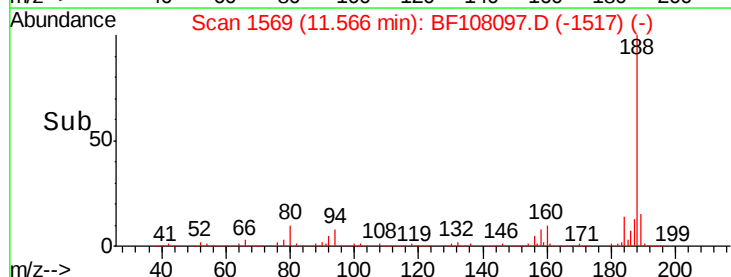
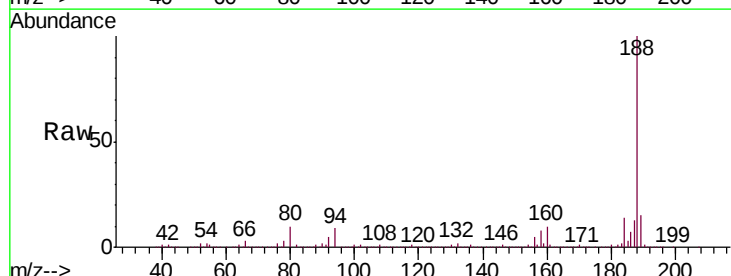
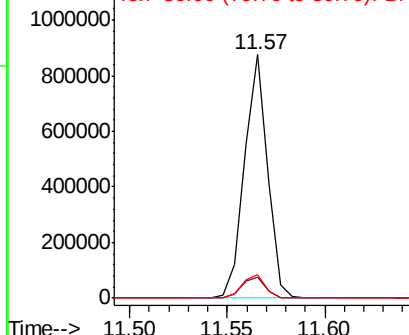
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

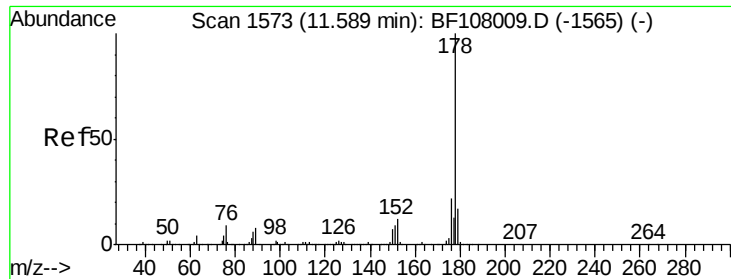


#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.57 min Scan# 1569  
Delta R.T. 0.01 min  
Lab File: BF108097.D  
Acq: 10 Aug 2018 21:18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 714572 |       |       |
| 94      | 8.5   |        | 8.5   | 12.7  |
| 80      | 9.7   |        | 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





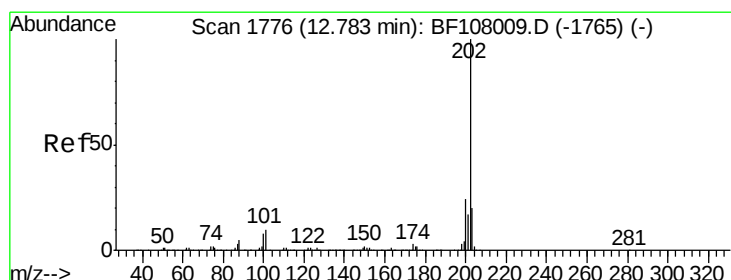
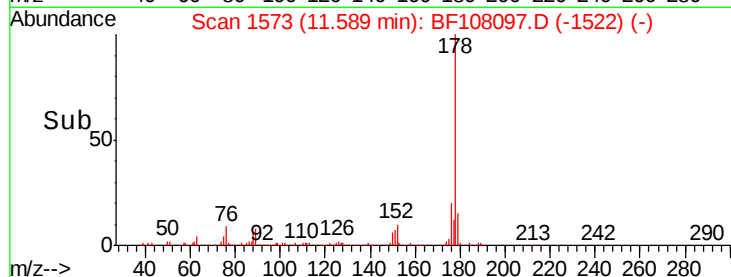
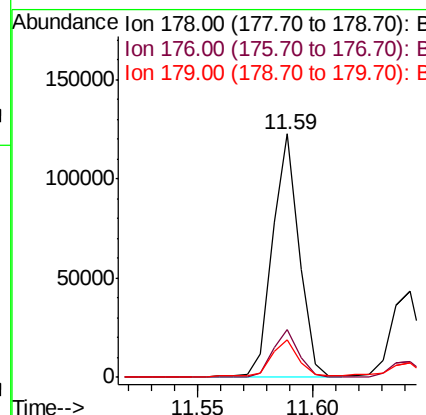
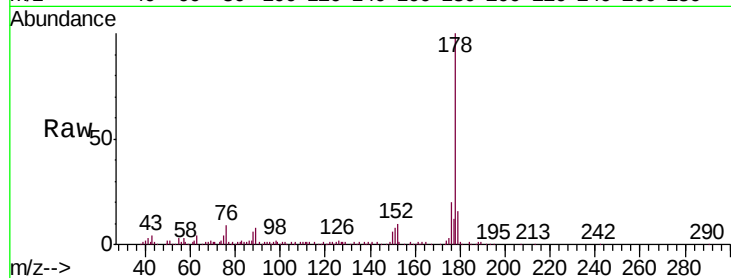
#70  
Phenanthrene  
Concen: 2.910 ng  
RT: 11.59 min Scan# 1573  
Delta R.T. -0.00 min  
Lab File: BF108097.D  
Acq: 10 Aug 2018 21:18

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-080918-J

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.8  | 15.8  | 23.8  |
| 179     | 15.6  | 13.0  | 19.6  |

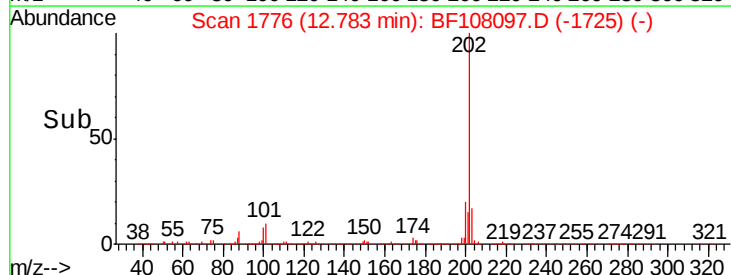
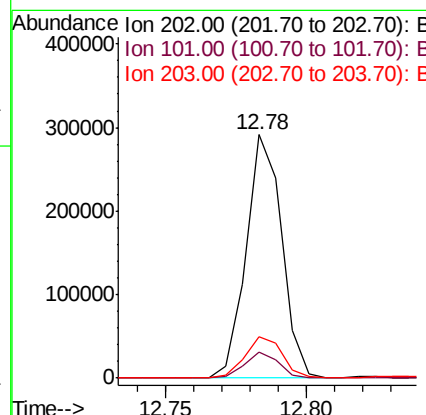
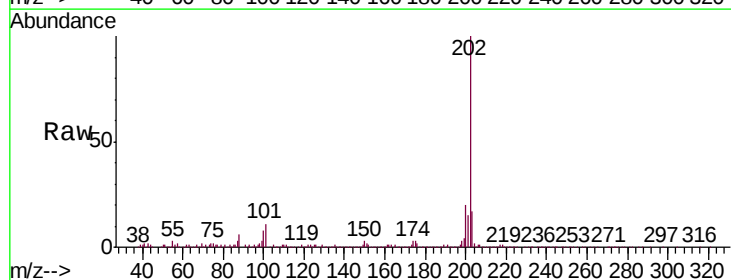
Manual Integrations  
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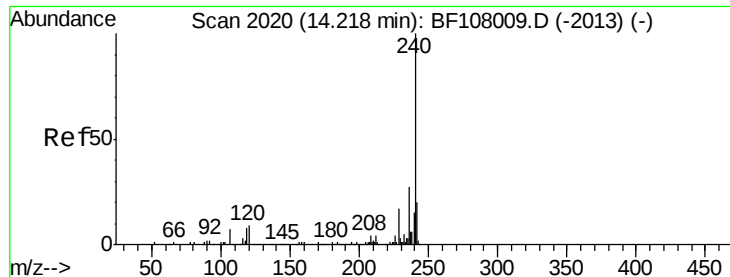
Sohil  
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#74  
Fluoranthene  
Concen: 6.909 ng  
RT: 12.78 min Scan# 1776  
Delta R.T. 0.00 min  
Lab File: BF108097.D  
Acq: 10 Aug 2018 21:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.5  | 0.0   | 34.1  |
| 203     | 17.1  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.22 min Scan# 2021

Delta R.T. 0.01 min

Lab File: BF108097.D

Acq: 10 Aug 2018 21:18

Instrument :

BNA\_F

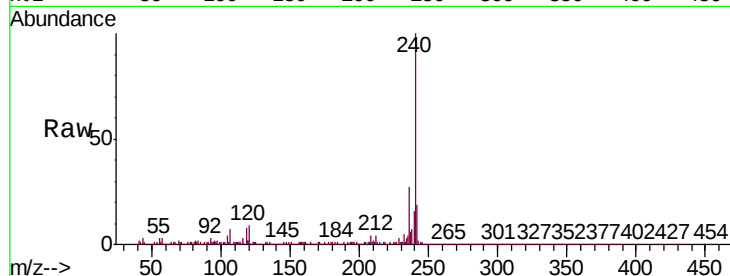
ClientSampleId :

JC-03-080918-J

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 583318 |       |       |
| 120     | 9.1   | 9.5    | 14.3  |       |
| 236     | 27.1  | 20.7   | 31.1  |       |

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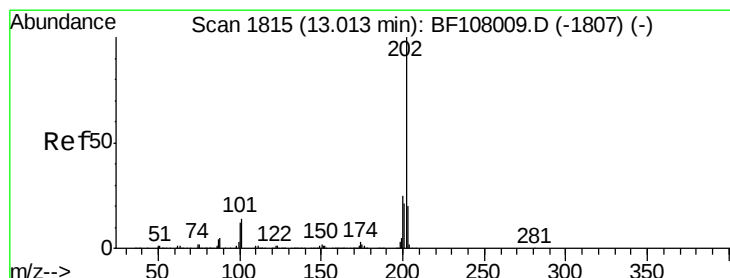
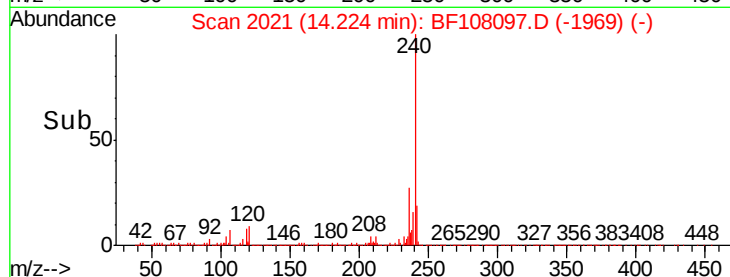
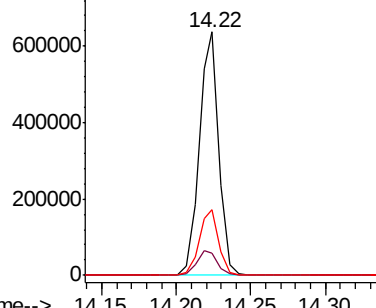


Abundance

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: 6.389 ng

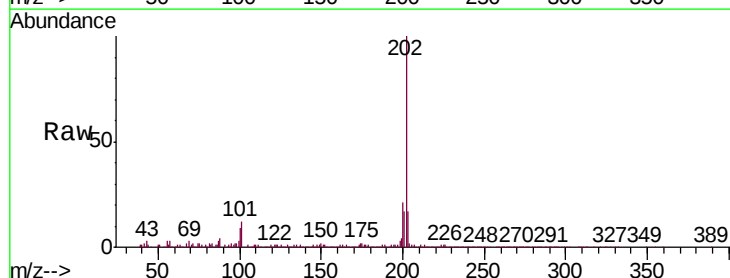
RT: 13.02 min Scan# 1816

Delta R.T. 0.01 min

Lab File: BF108097.D

Acq: 10 Aug 2018 21:18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 235957 |       |       |
| 200     | 20.6  | 17.4   | 26.2  |       |
| 203     | 17.1  | 14.3   | 21.5  |       |

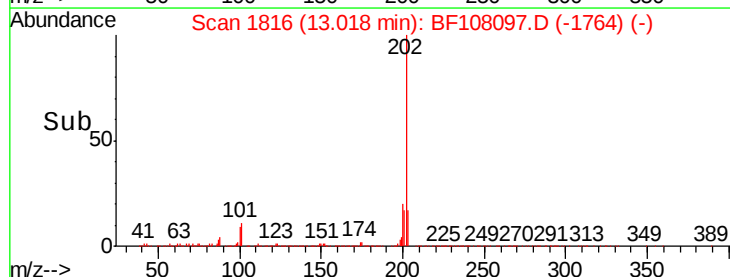
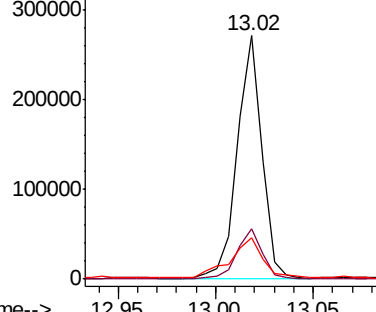


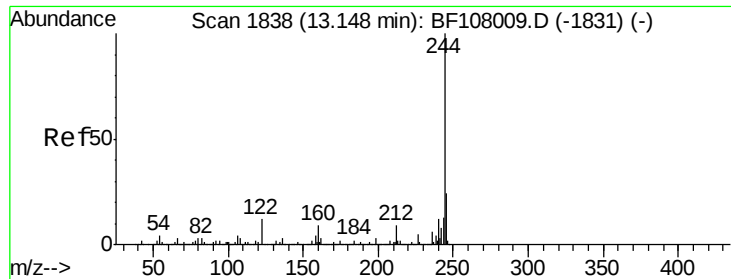
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 44.811 ng

RT: 13.15 min Scan# 1839

Delta R.T. 0.01 min

Lab File: BF108097.D

Acq: 10 Aug 2018 21:18

Instrument :

BNA\_F

ClientSampleId :

JC-03-080918-J

Tgt Ion:244 Resp: 1028068

Ion Ratio Lower Upper

244 100

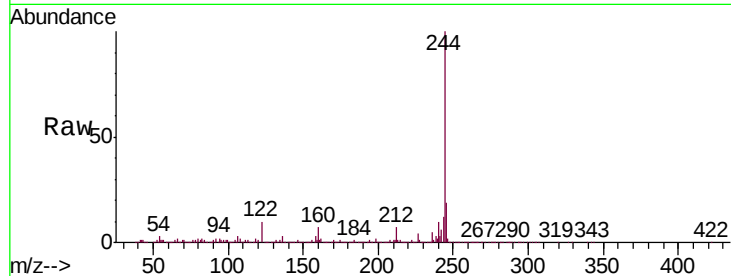
212 7.1 5.4 8.0

122 9.9 11.0 16.4#

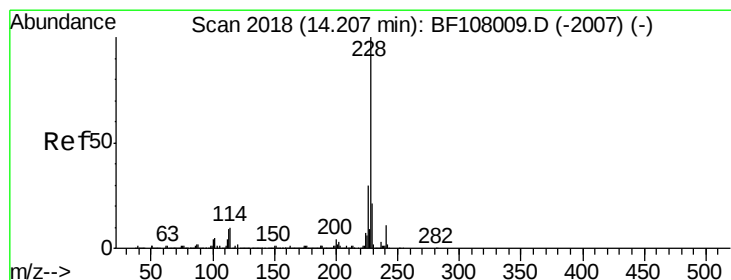
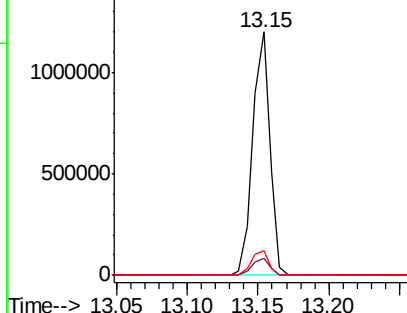
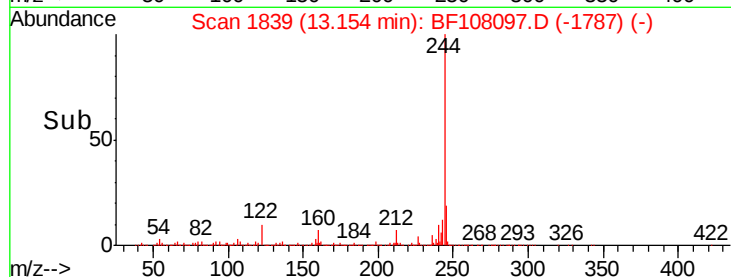
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Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 3.431 ng

RT: 14.21 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF108097.D

Acq: 10 Aug 2018 21:18

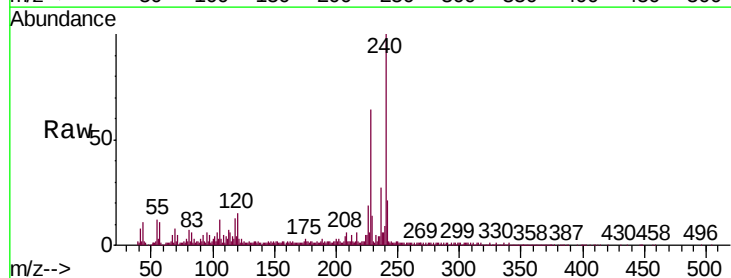
Tgt Ion:228 Resp: 114849

Ion Ratio Lower Upper

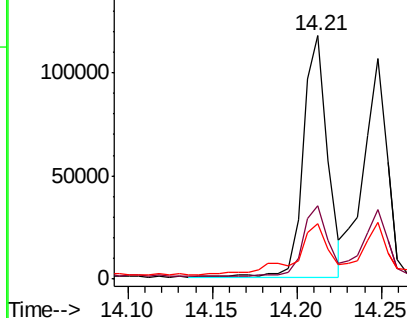
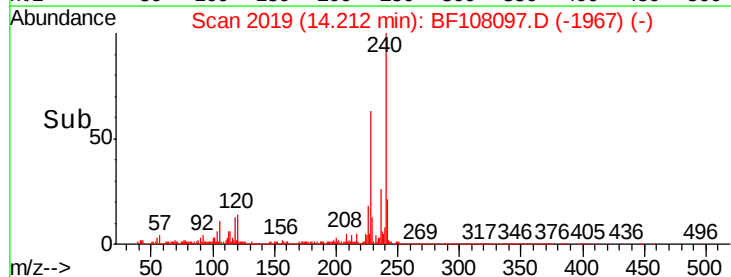
228 100

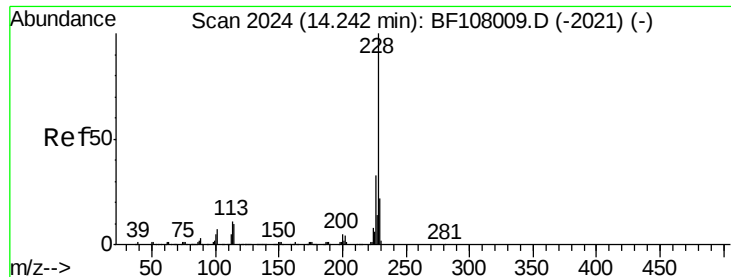
226 29.9 22.6 33.8

229 22.6 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





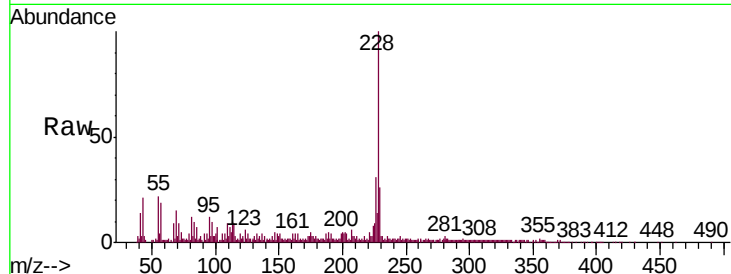
#82  
Chrysene  
Concen: 3.416 ng m  
RT: 14.25 min Scan# 2025  
Delta R.T. 0.01 min  
Lab File: BF108097.D  
Acq: 10 Aug 2018 21:18

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-080918-J

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 104847 |       |       |
| 226     | 31.4  | 25.0   | 37.6  |       |
| 229     | 25.9  | 16.2   | 24.4  |       |

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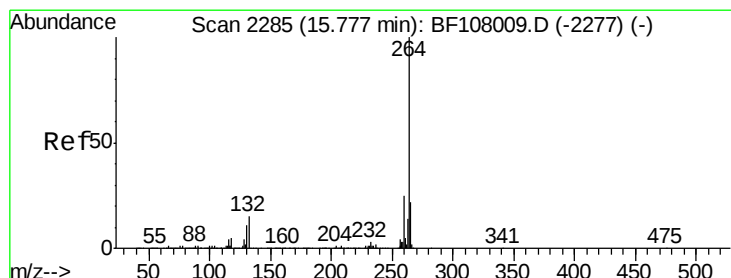
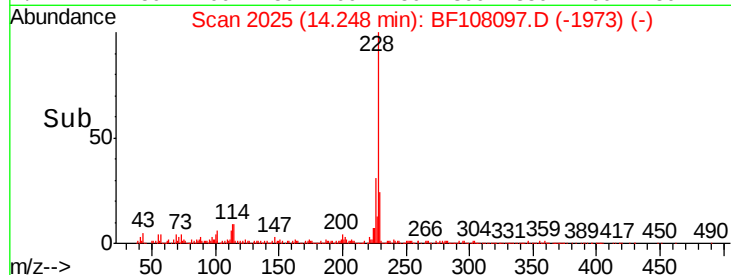
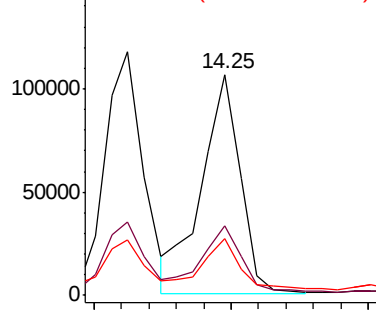


Abundance

Ion 228.00 (227.70 to 228.70): E

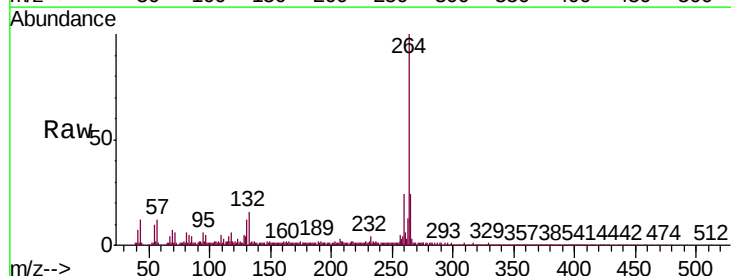
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.79 min Scan# 2288  
Delta R.T. 0.02 min  
Lab File: BF108097.D  
Acq: 10 Aug 2018 21:18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 388987 |       |       |
| 260     | 24.4  | 19.2   | 28.8  |       |
| 265     | 23.6  | 17.5   | 26.3  |       |

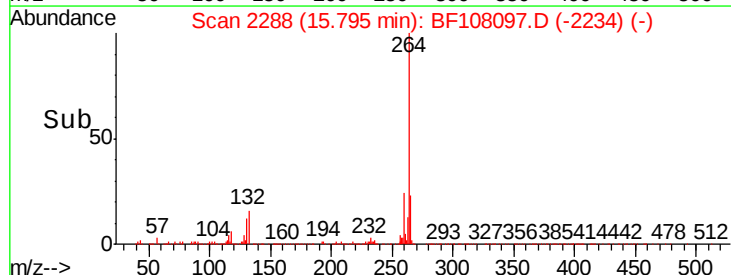
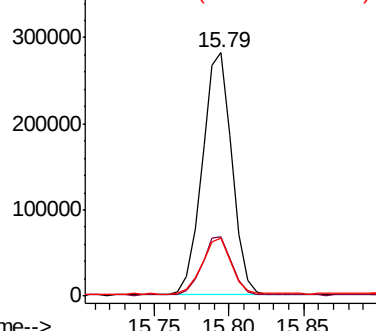


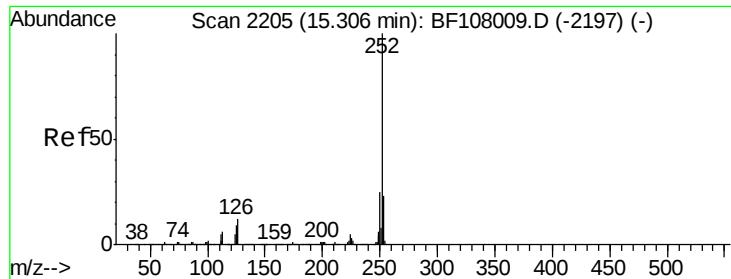
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 4.151 ng m

RT: 15.32 min Scan# 2207

Delta R.T. 0.01 min

Lab File: BF108097.D

Acq: 10 Aug 2018 21:18

Instrument :

BNA\_F

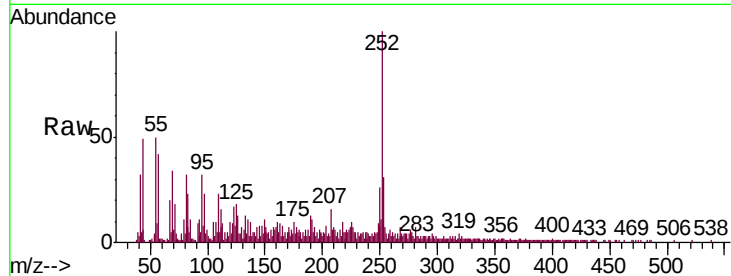
ClientSampleId :

JC-03-080918-J

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 96476 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 30.8  | 17.0  | 25.6# |
| 125       | 17.5  | 9.0   | 13.6# |

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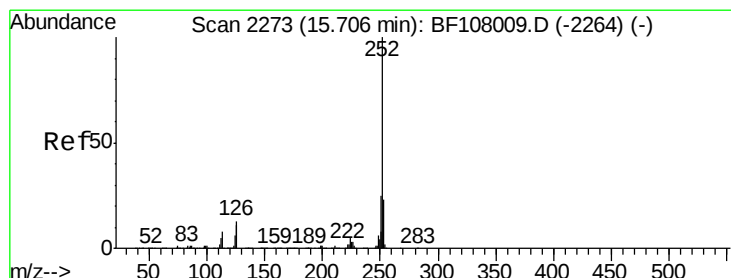
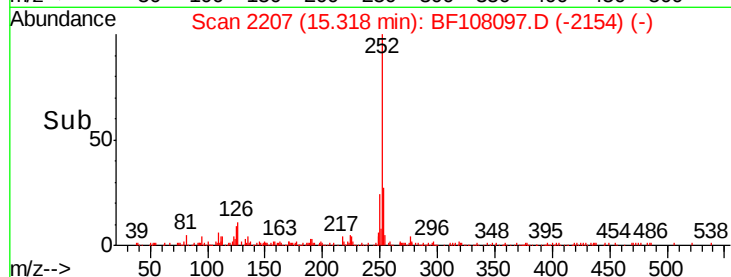
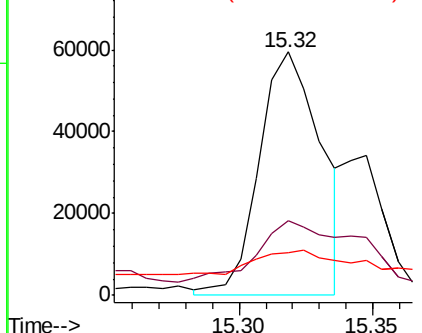
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 3.097 ng

RT: 15.72 min Scan# 2275

Delta R.T. 0.01 min

Lab File: BF108097.D

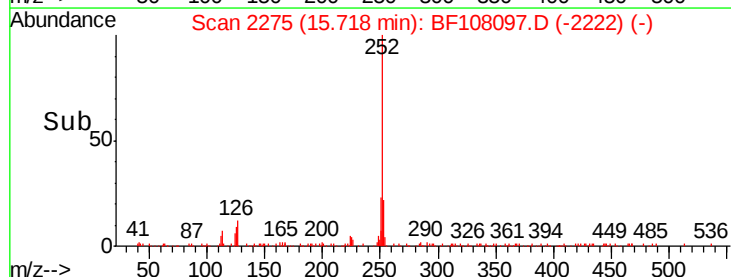
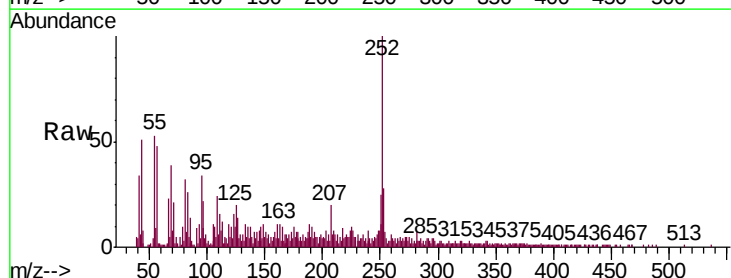
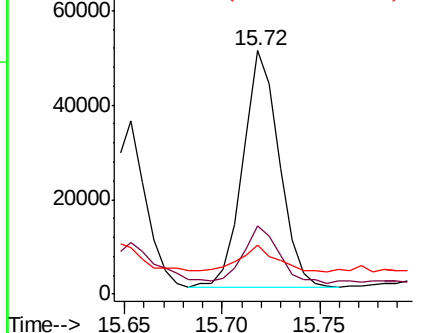
Acq: 10 Aug 2018 21:18

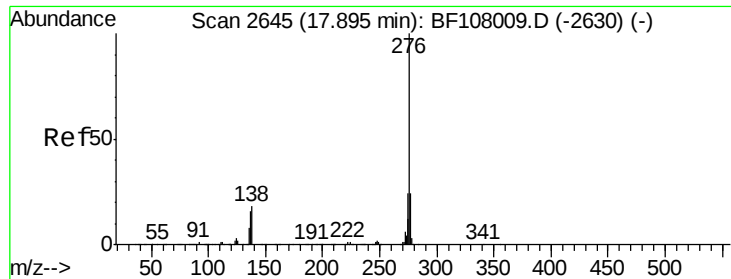
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 64459 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.1  | 17.1  | 25.7# |
| 125       | 20.0  | 9.8   | 14.6# |

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: 2.019 ng  
 RT: 17.91 min Scan# 2648  
 Delta R.T. 0.02 min  
 Lab File: BF108097.D  
 Acq: 10 Aug 2018 21:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-080918-J

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 38.5  | 17.9  | 26.9# |
| 138     | 24.6  | 21.8  | 32.8  |

Manual Integrations  
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