

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070518\  
 Data File : BF107121.D  
 Acq On : 5 Jul 2018 12:40  
 Operator : JU/SJ  
 Sample : J3796-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-SOIL

Manual Integrations  
 APPROVED

Sohil  
 7/6/2018 11:38:00 AM

Quant Time: Jul 06 09:11:13 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 29 14:38:29 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.95  | 152  | 61488    | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.23  | 136  | 229858   | 20.00     | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.99  | 164  | 107885   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.48 | 188  | 179175   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12            | 14.14 | 240  | 166059   | 20.00     | ng    | -0.03    |
| 86) Perylene-d12            | 15.68 | 264  | 184564   | 20.00     | ng    | -0.04    |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.59  | 112  | 362652   | 99.87     | ng    | -0.01    |
| 7) Phenol-d6                | 6.60  | 99   | 447741   | 98.74     | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.51  | 82   | 286530   | 69.28     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.79 | 330  | 123300   | 98.61     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.30  | 172  | 480844   | 73.43     | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.07 | 244  | 423212   | 61.73     | ng    | -0.02    |
| Target Compounds            |       |      |          |           |       |          |
| 20) 3+4-Methylphenols       | 7.38  | 107  | 632      | Below Cal |       |          |
| 31) Naphthalene             | 8.25  | 128  | 40499    | 3.769     | ng    | 98       |
| 49) Dimethylphthalate       | 9.70  | 163  | 81497    | 10.072    | ng    | 98       |
| 70) Phenanthrene            | 11.51 | 178  | 24540    | 2.840     | ng    | 96       |
| 74) Fluoranthene            | 12.70 | 202  | 38223    | 4.013     | ng    | 94       |
| 77) Pyrene                  | 12.94 | 202  | 47135    | 4.304     | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.12 | 228  | 26698    | 2.638     | ng    | 89       |
| 82) Chrysene                | 14.17 | 228  | 32625    | 3.504     | ng    | 91       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.26 | 276  | 19411m   | 2.457     | ng    |          |
| 87) Benzo(b)fluoranthene    | 15.22 | 252  | 36965m   | 3.224     | ng    |          |
| 89) Benzo(a)pyrene          | 15.61 | 252  | 28108    | 2.758     | ng    | 90       |
| 91) Benzo(a,h,i)perylene    | 17.74 | 276  | 20870    | 2.472     | ng    | 91       |

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

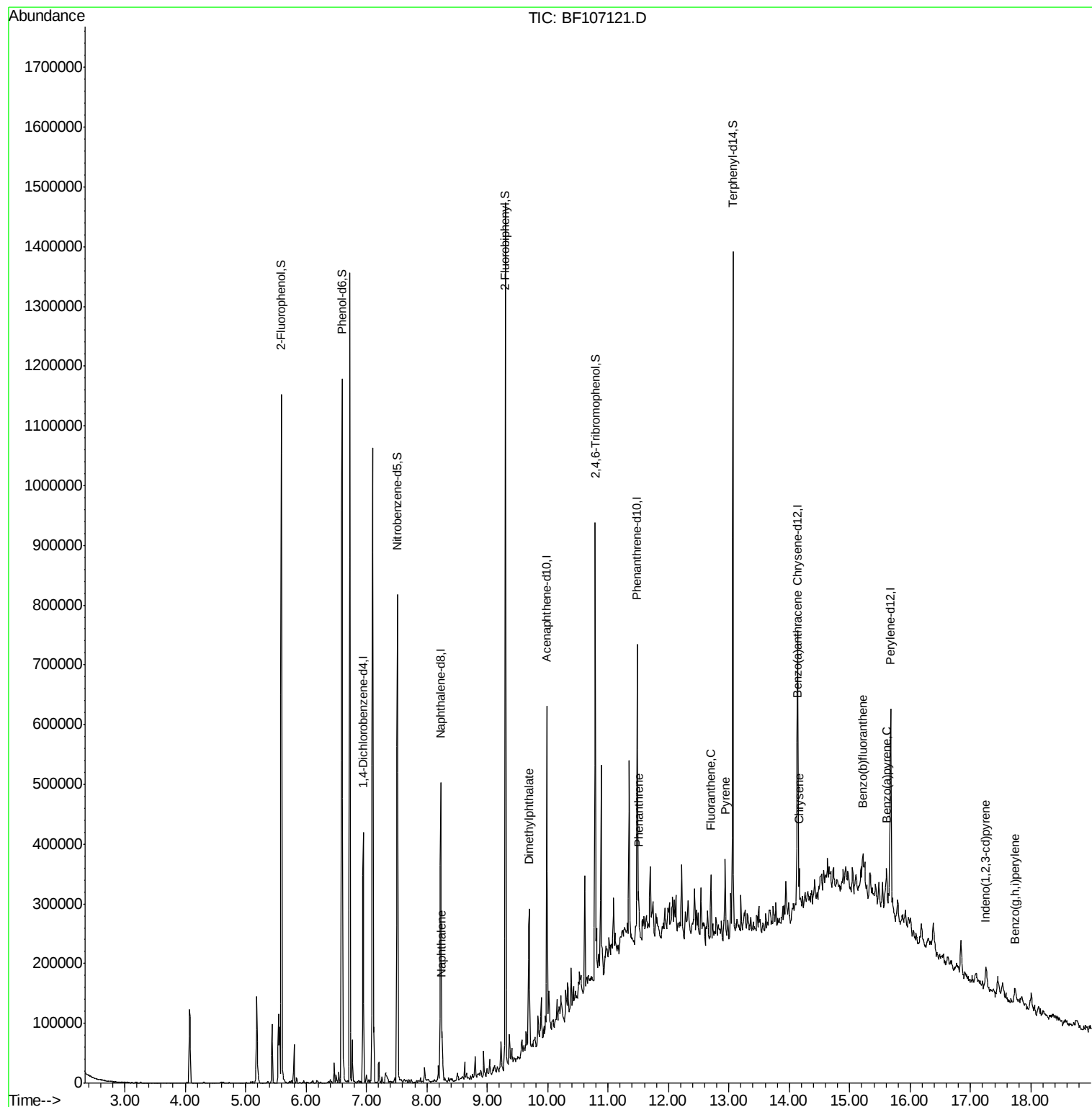
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070518\  
Data File : BF107121.D  
Acq On : 5 Jul 2018 12:40  
Operator : JU/SJ  
Sample : J3796-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-SOIL

Manual Integrations  
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7/6/2018 11:38:00 AM

Quant Time: Jul 06 09:11:13 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 29 14:38:29 2018  
Response via : Initial Calibration





#1

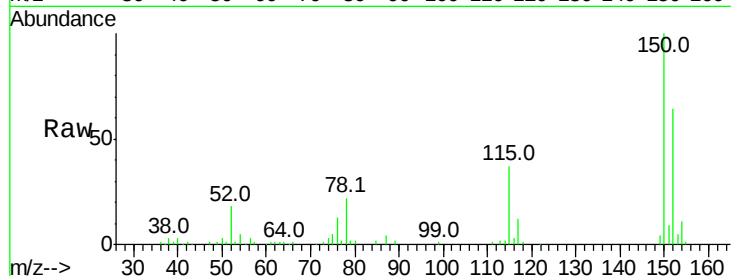
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.95 min Scan# 784  
Delta R.T. -0.01 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

Instrument :  
BNA\_F  
ClientSampleId :  
JC-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 124.6 | 186.8 |
| 115     | 57.0  | 50.1  | 75.1  |

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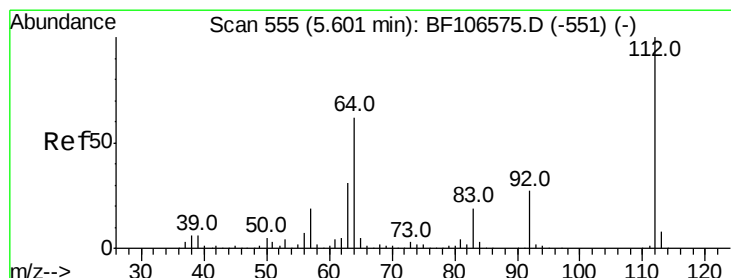
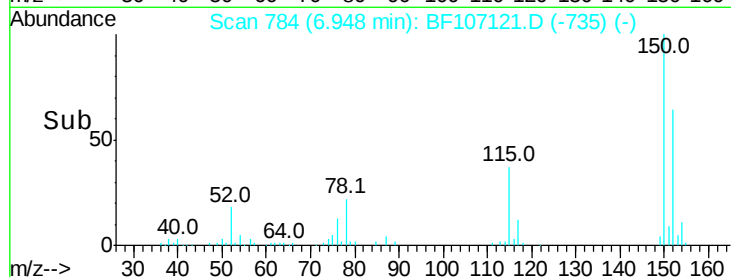
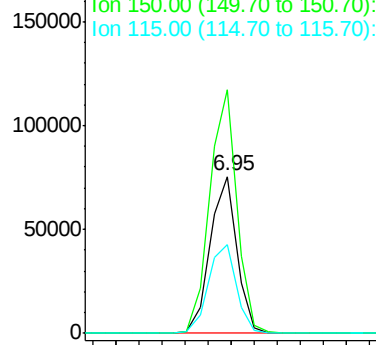


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

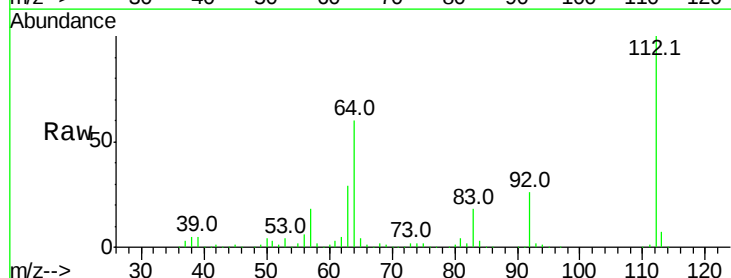
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 99.871 ng  
RT: 5.59 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.8  | 47.9  | 71.9  |
| 63      | 29.4  | 23.7  | 35.5  |

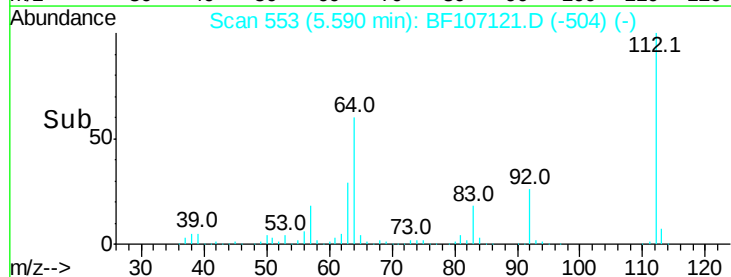
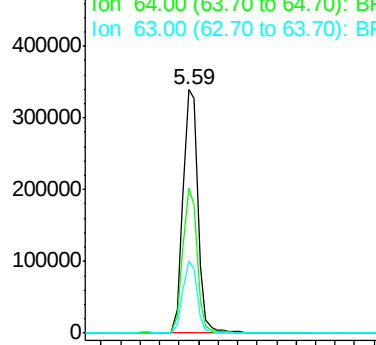


Abundance

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: 98.737 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF107121.D

Acq: 5 Jul 2018 12:40

Instrument :

BNA\_F

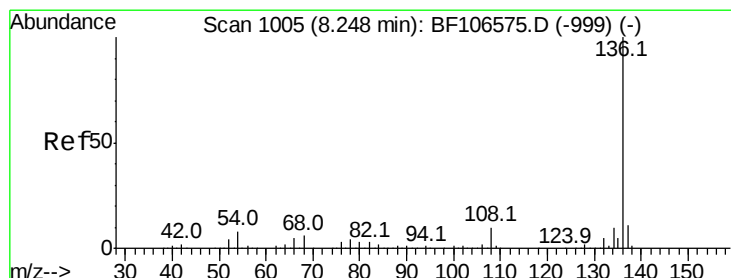
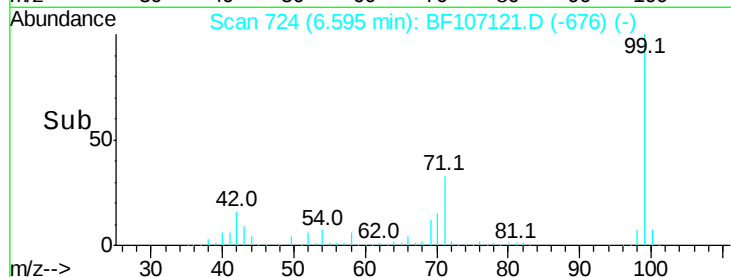
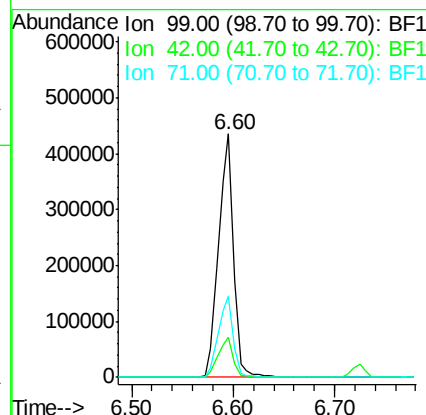
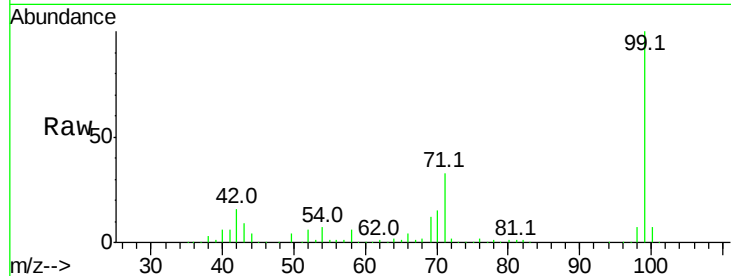
ClientSampled :

JC-SOIL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 447741 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.2  | 14.5  | 21.7   |
| 71        | 33.3  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

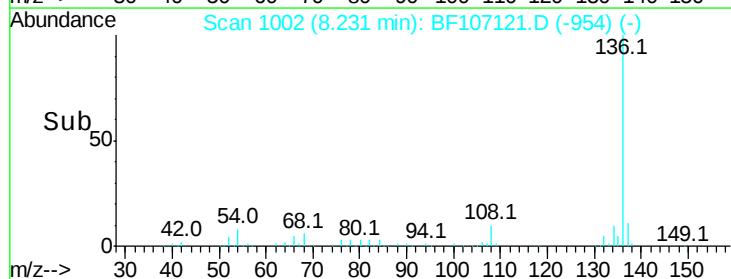
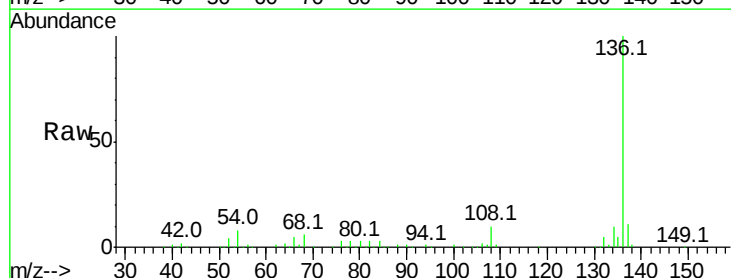
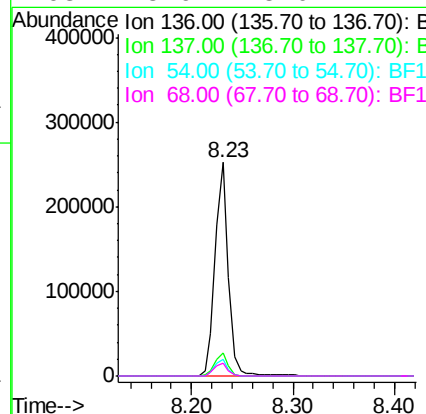
RT: 8.23 min Scan# 1002

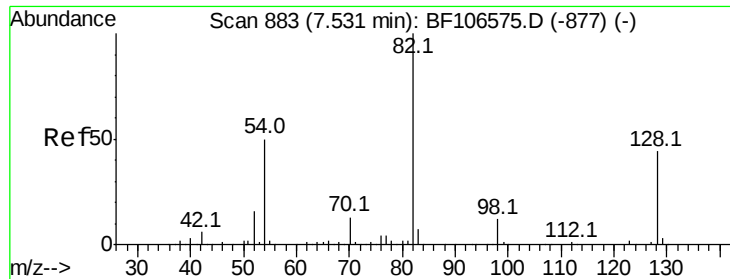
Delta R.T. -0.02 min

Lab File: BF107121.D

Acq: 5 Jul 2018 12:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 229858 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.9   | 13.3   |
| 54        | 7.7   | 6.6   | 9.8    |
| 68        | 5.9   | 5.0   | 7.4    |





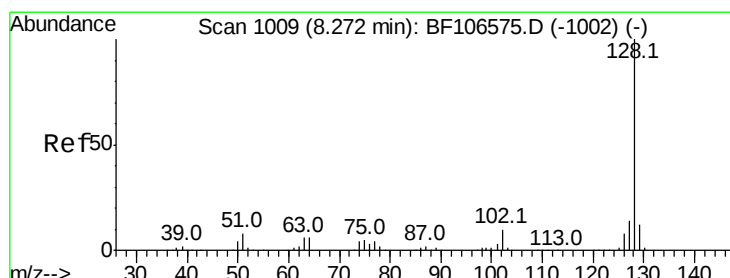
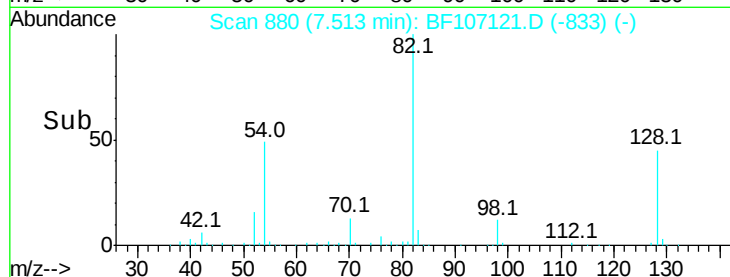
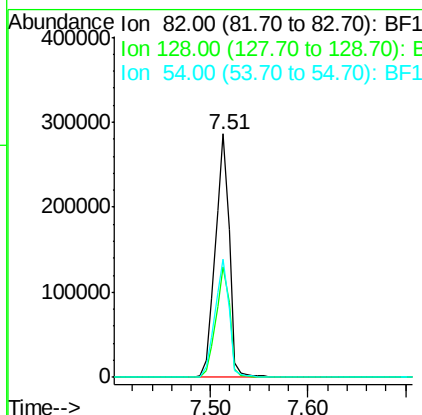
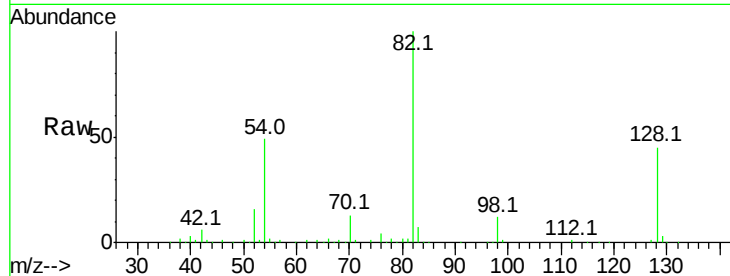
#23  
Nitrobenzene-d5  
Concen: 69.275 ng  
RT: 7.51 min Scan# 880  
Delta R.T. -0.02 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

Instrument :  
BNA\_F  
ClientSampled :  
JC-SOIL

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 45.2  | 36.1 | 54.1  |       |
| 54      | 48.8  | 41.4 | 62.2  |       |

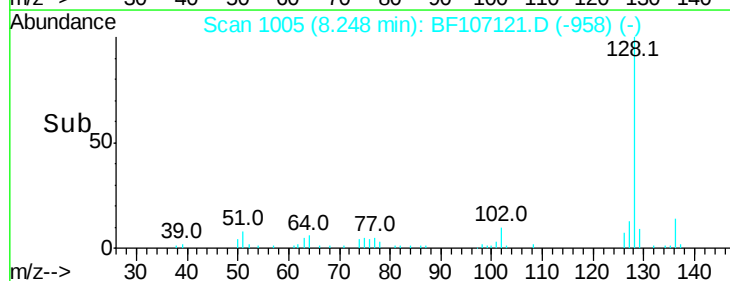
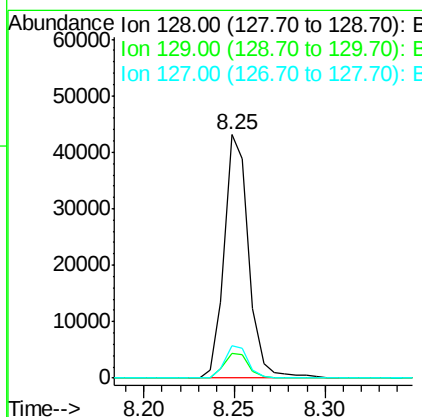
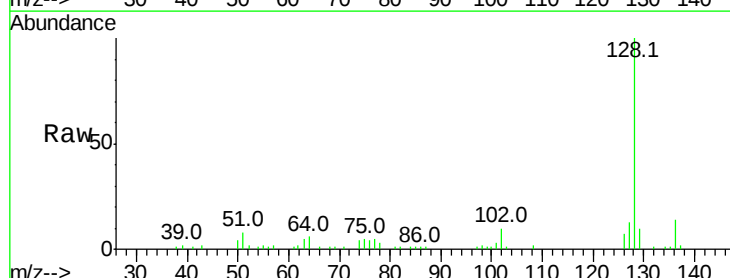
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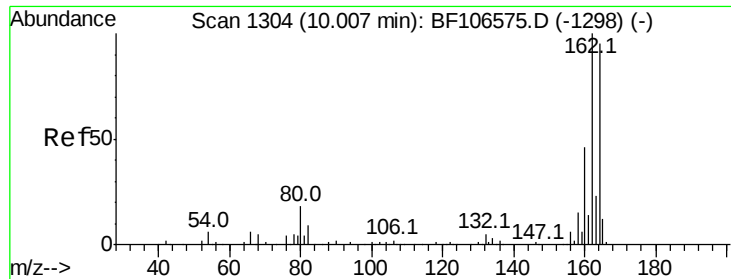
Sohil  
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#31  
Naphthalene  
Concen: 3.769 ng  
RT: 8.25 min Scan# 1005  
Delta R.T. -0.02 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   |      |       |       |
| 129     | 10.2  | 8.8  | 13.2  |       |
| 127     | 13.1  | 10.9 | 16.3  |       |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.99 min Scan# 1301

Delta R.T. -0.02 min

Lab File: BF107121.D

Acq: 5 Jul 2018 12:40

Instrument :

BNA\_F

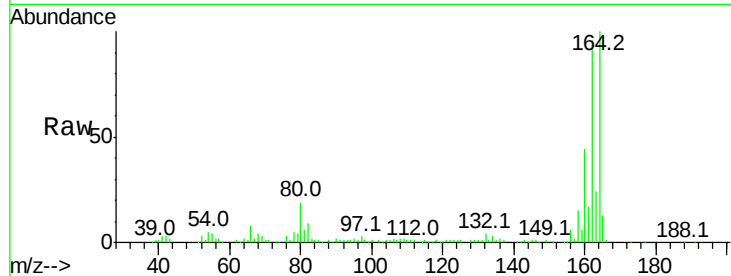
ClientSampleId :

JC-SOIL

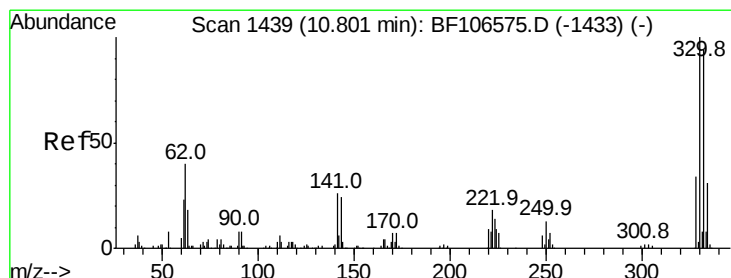
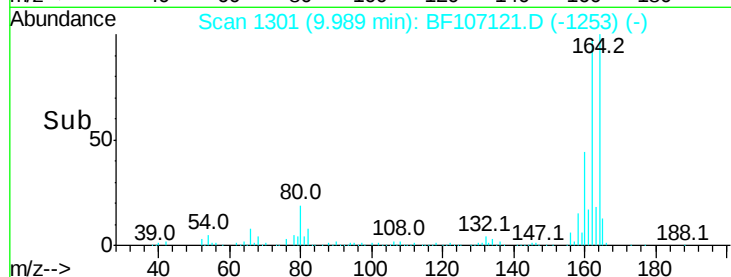
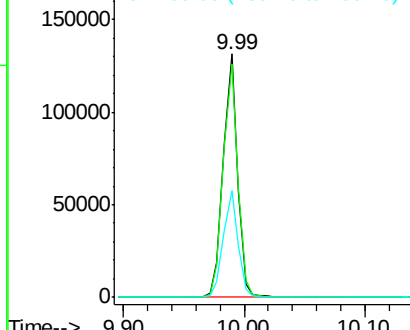
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 107885 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 96.0  | 86.1  | 129.1  |
| 160       | 43.8  | 38.3  | 57.5   |

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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: 98.607 ng

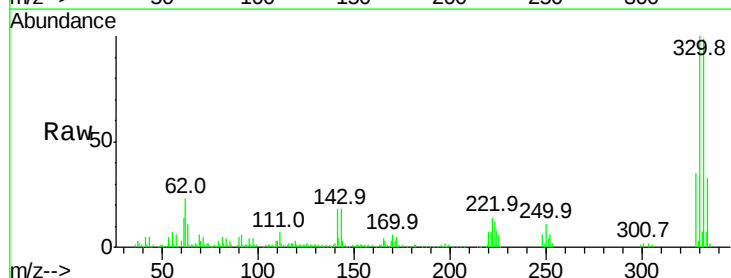
RT: 10.79 min Scan# 1437

Delta R.T. -0.01 min

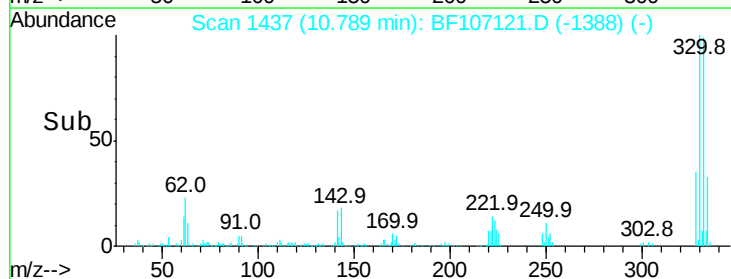
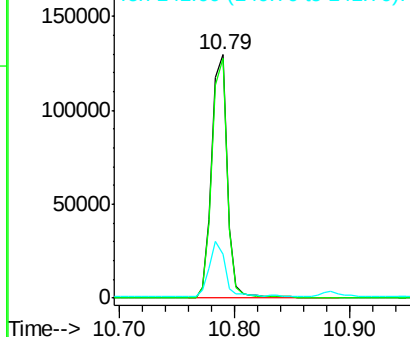
Lab File: BF107121.D

Acq: 5 Jul 2018 12:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 123300 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.9  | 77.0  | 115.6  |
| 141       | 22.4  | 29.9  | 44.9#  |



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





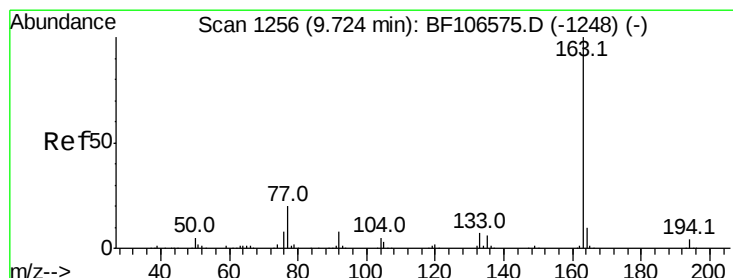
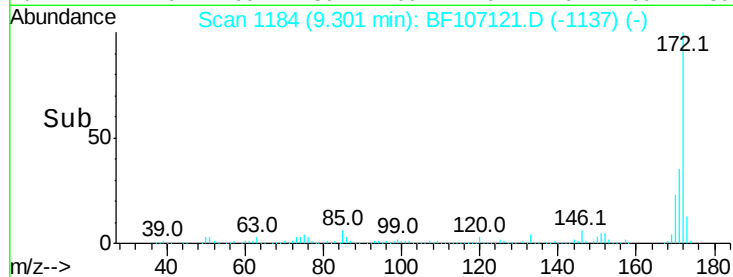
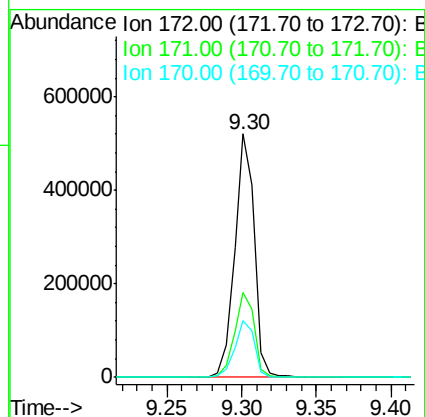
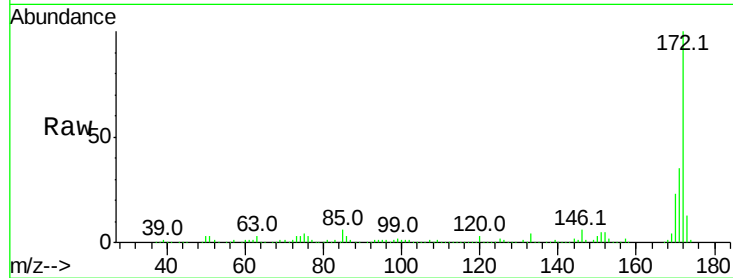
#44  
2-Fluorobiphenyl  
Concen: 73.433 ng  
RT: 9.30 min Scan# 1184  
Delta R.T. -0.02 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

Instrument :  
BNA\_F  
ClientSampleId :  
JC-SOIL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 480844 |       |       |
| 171     | 35.1  |        | 29.7  | 44.5  |
| 170     | 23.4  |        | 19.6  | 29.4  |

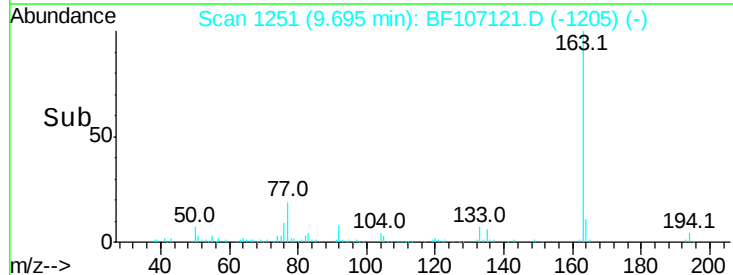
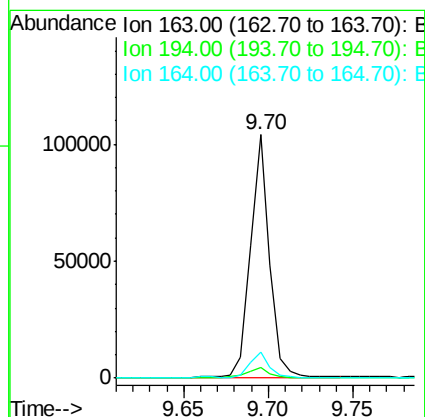
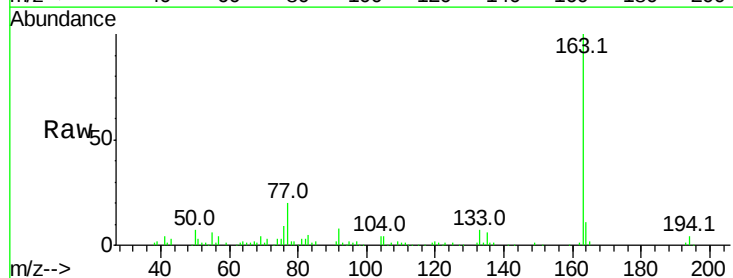
Manual Integrations  
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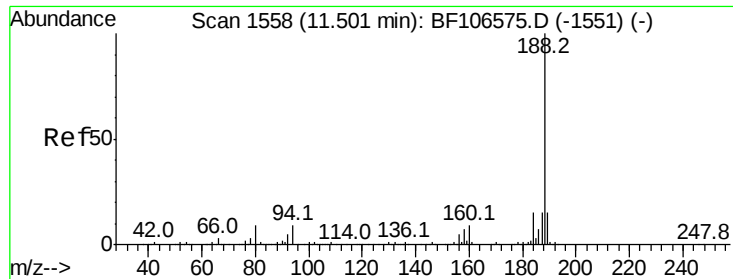
Sohil  
7/6/2018 11:38:00 AM



#49  
Dimethylphthalate  
Concen: 10.072 ng  
RT: 9.70 min Scan# 1251  
Delta R.T. -0.03 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 81497 |       |       |
| 194     | 4.2   |       | 2.7   | 4.1#  |
| 164     | 10.9  |       | 8.2   | 12.2  |





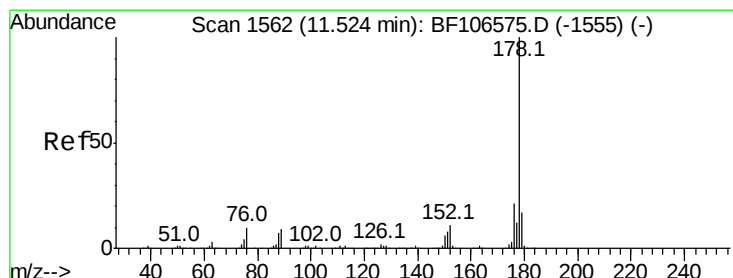
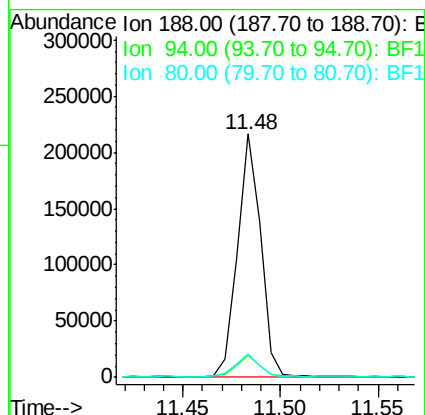
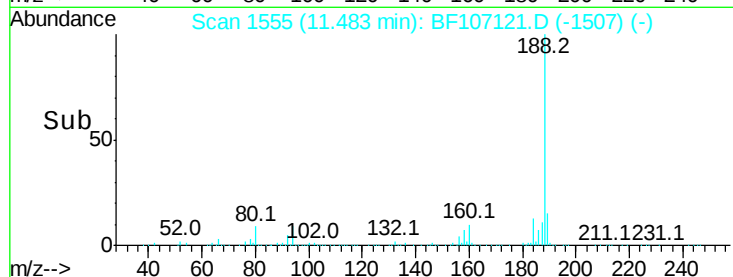
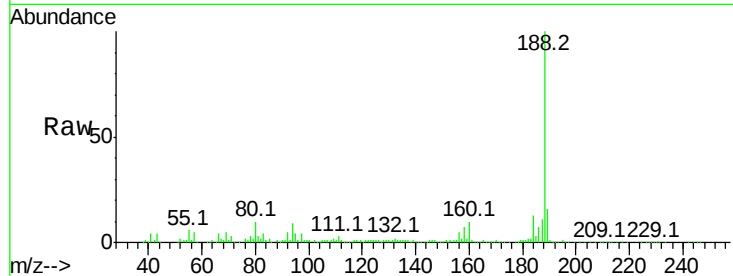
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.48 min Scan# 1555  
Delta R.T. -0.02 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

Instrument :  
BNA\_F  
ClientSampled :  
JC-SOIL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 179175 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.3   | 8.5   | 12.7   |
| 80        | 9.6   | 9.2   | 13.8   |

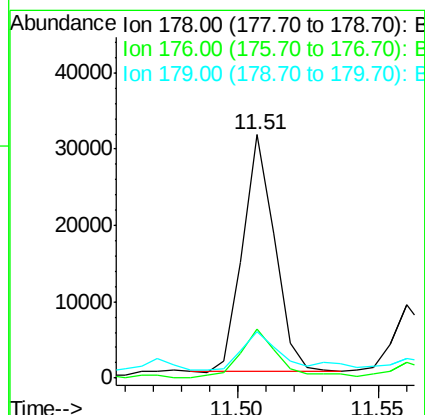
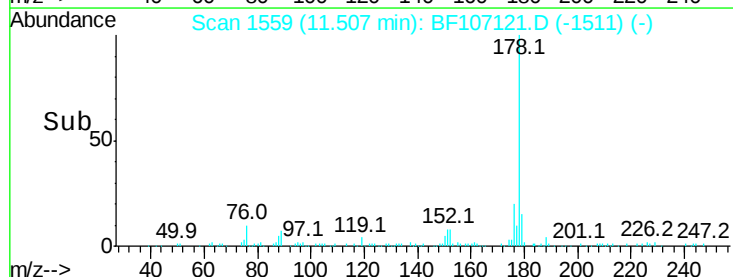
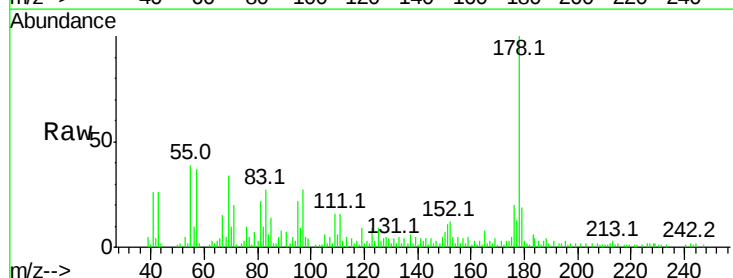
Manual Integrations  
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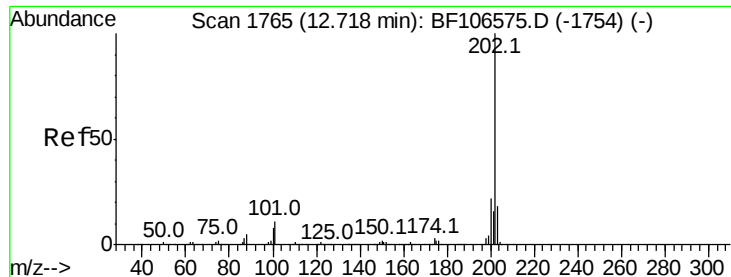
Sohil  
7/6/2018 11:38:00 AM



#70  
Phenanthrene  
Concen: 2.840 ng  
RT: 11.51 min Scan# 1559  
Delta R.T. -0.02 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 24540 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.3  | 15.8  | 23.8  |
| 179       | 19.1  | 13.0  | 19.6  |





#74

Fluoranthene

Concen: 4.013 ng

RT: 12.70 min Scan# 1762

Delta R.T. -0.02 min

Lab File: BF107121.D

Acq: 5 Jul 2018 12:40

Instrument :

BNA\_F

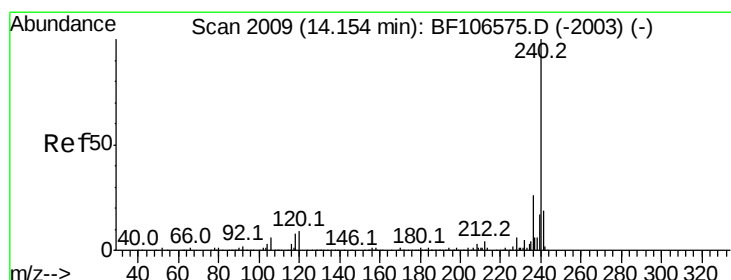
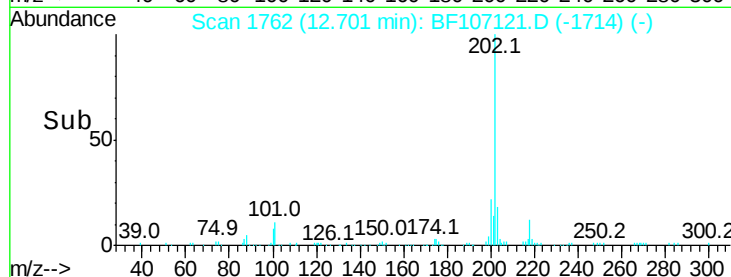
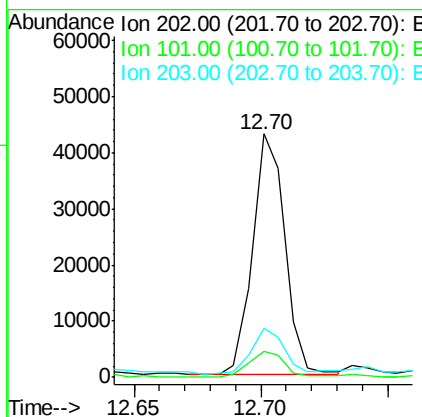
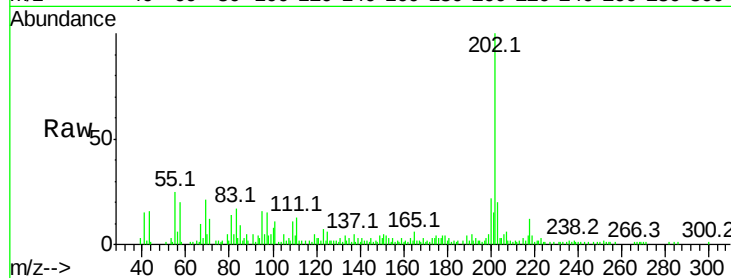
ClientSampleId :

JC-SOIL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 38223 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.6  | 0.0   | 34.1  |
| 203       | 20.1  | 0.0   | 38.1  |

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#75

Chrysene-d12

Concen: 20.000 ng

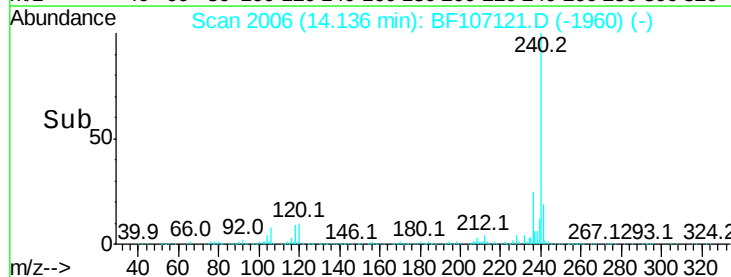
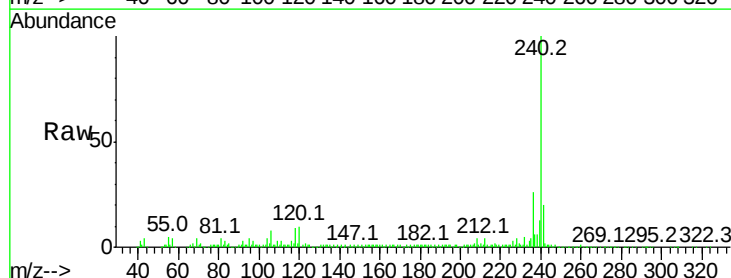
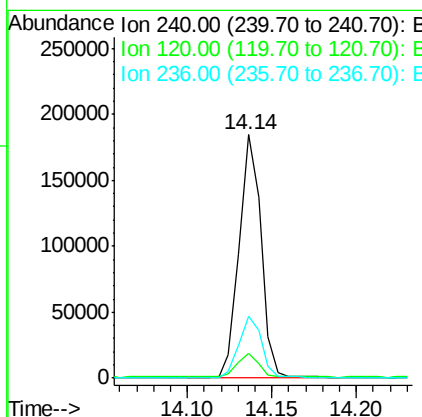
RT: 14.14 min Scan# 2006

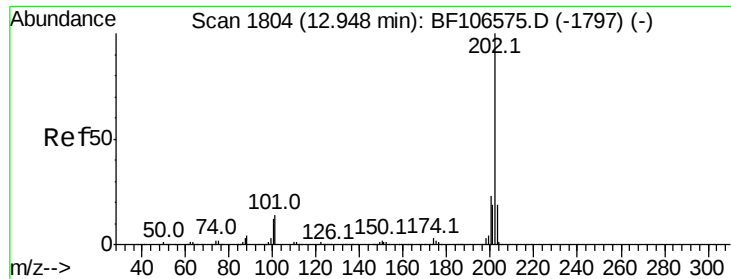
Delta R.T. -0.03 min

Lab File: BF107121.D

Acq: 5 Jul 2018 12:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 166059 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 9.9   | 9.5   | 14.3   |
| 236       | 25.7  | 20.7  | 31.1   |





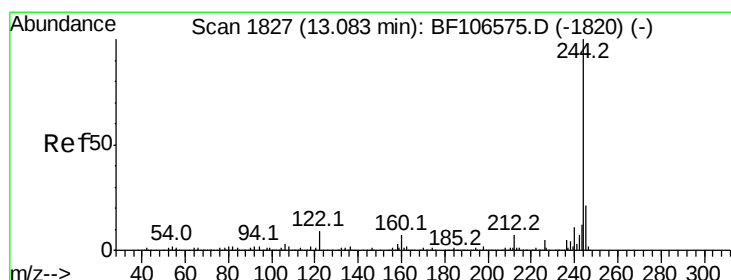
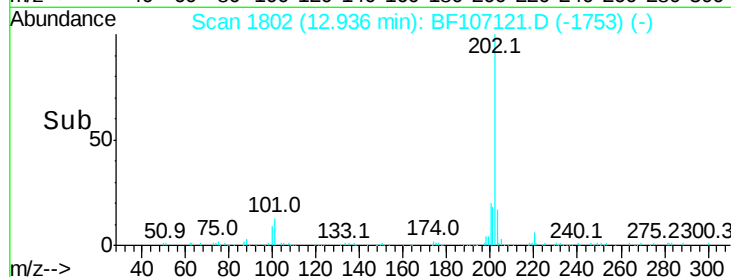
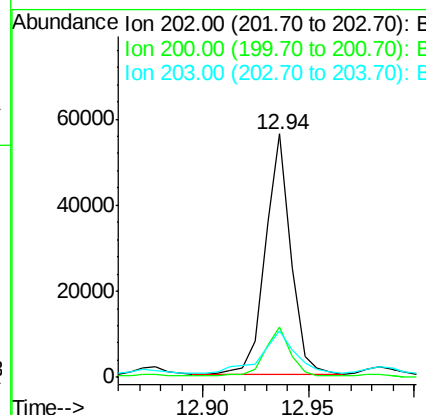
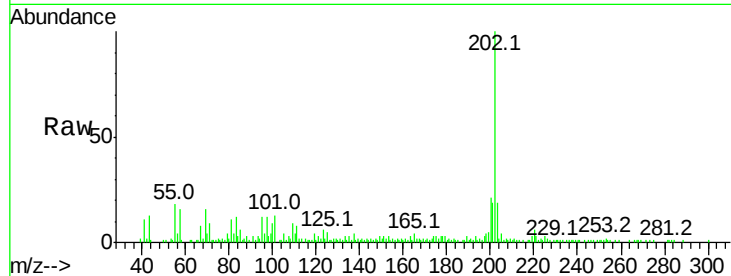
#77  
Pvrene  
Concen: 4.304 ng  
RT: 12.94 min Scan# 1802  
Delta R.T. -0.01 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

Instrument :  
BNA\_F  
ClientSampleId :  
JC-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.8  | 17.4  | 26.2  |
| 203     | 19.0  | 14.3  | 21.5  |

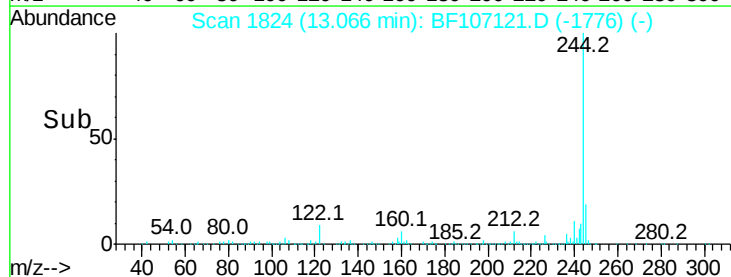
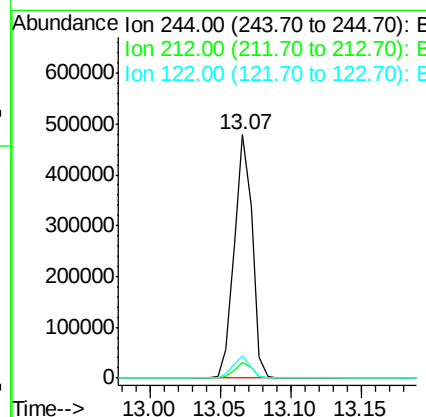
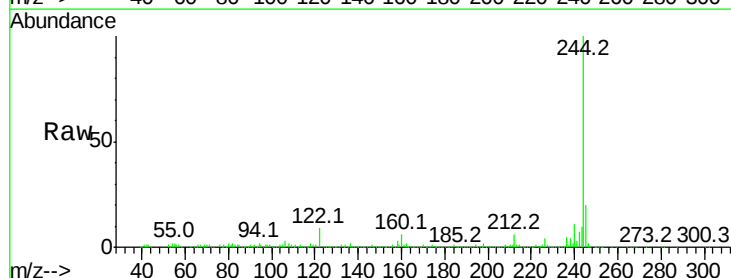
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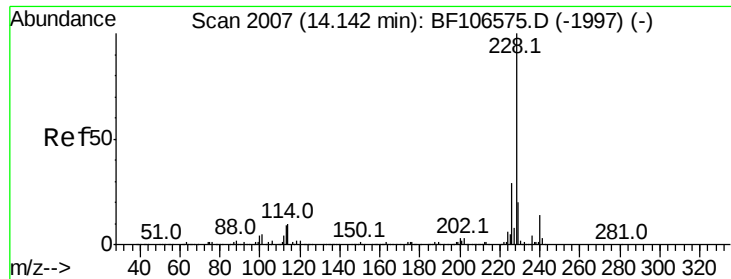
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#78  
Terphenyl-d14  
Concen: 61.734 ng  
RT: 13.07 min Scan# 1824  
Delta R.T. -0.02 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.4   | 5.4   | 8.0   |
| 122     | 9.0   | 11.0  | 16.4  |





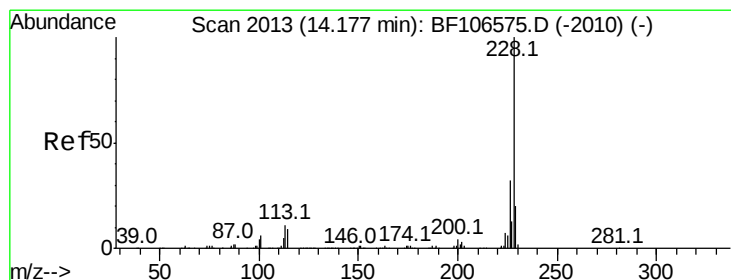
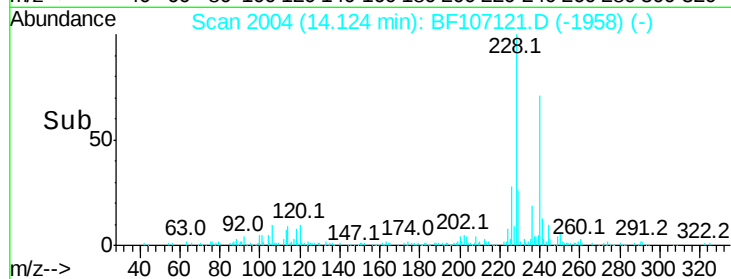
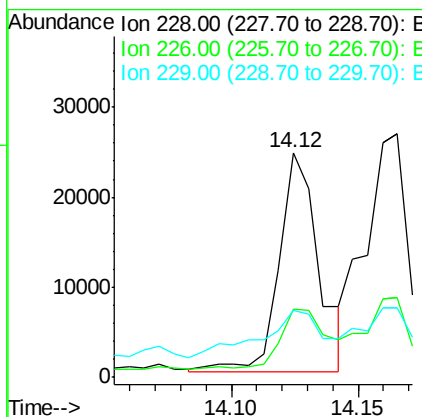
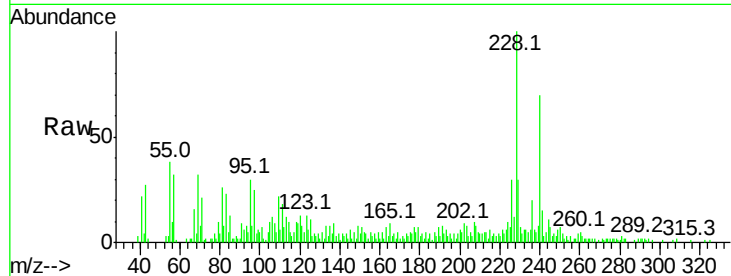
#80  
Benzo(a)anthracene  
Concen: 2.638 ng  
RT: 14.12 min Scan# 2004  
Delta R.T. -0.03 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

Instrument :  
BNA\_F  
ClientSampleId :  
JC-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 22.6  | 33.8  |
| 229     | 29.8  | 15.8  | 23.6  |

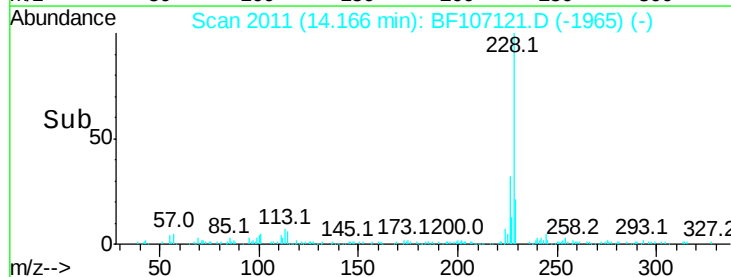
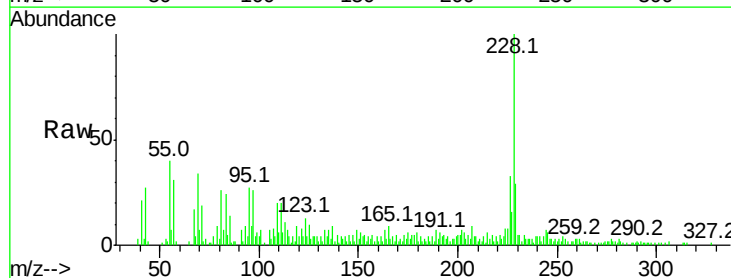
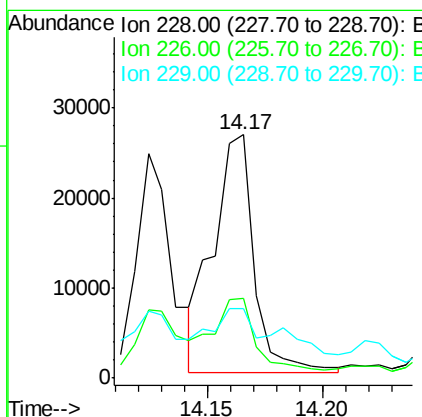
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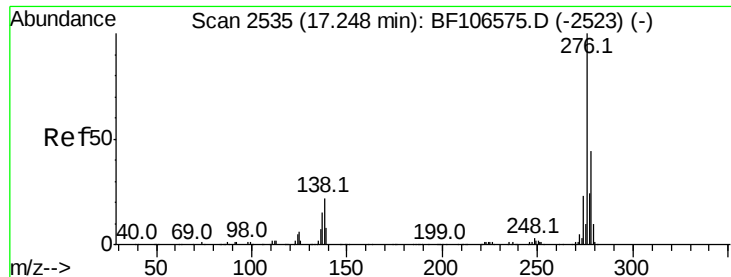
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#82  
Chrysene  
Concen: 3.504 ng  
RT: 14.17 min Scan# 2011  
Delta R.T. -0.03 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.0  | 25.0  | 37.6  |
| 229     | 28.6  | 16.2  | 24.4  |





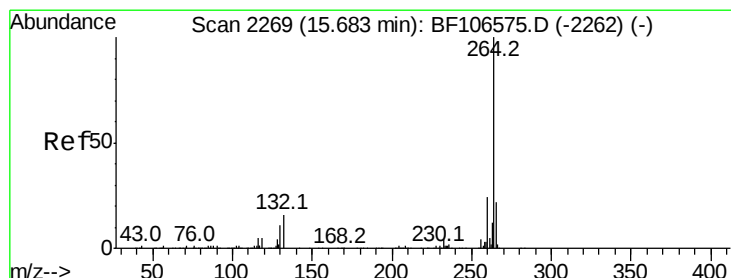
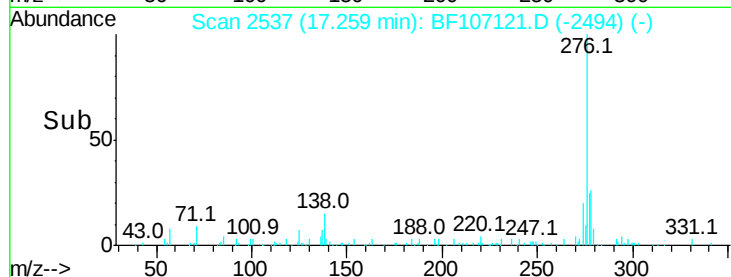
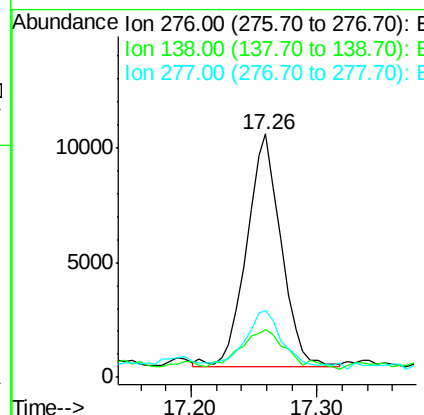
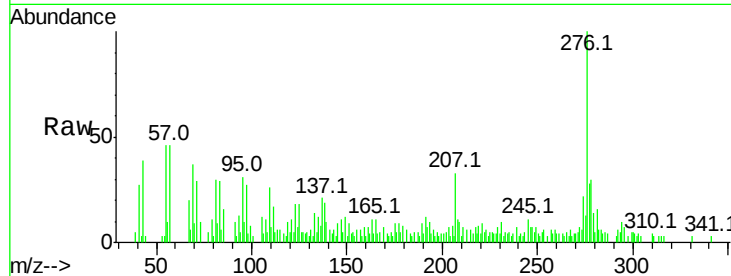
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.457 ng/ml  
RT: 17.26 min Scan# 2537  
Delta R.T. -0.05 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

Instrument :  
BNA\_F  
ClientSampled :  
JC-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 4.4   | 25.0  | 37.6# |
| 277     | 4.0   | 20.1  | 30.1# |

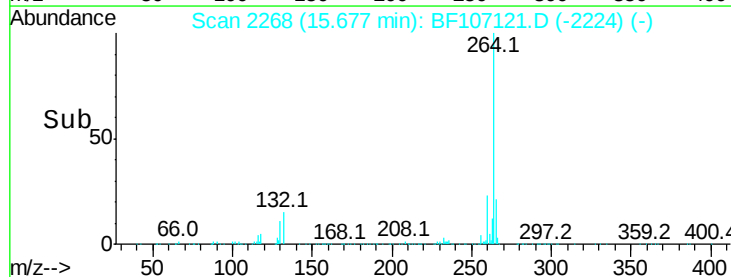
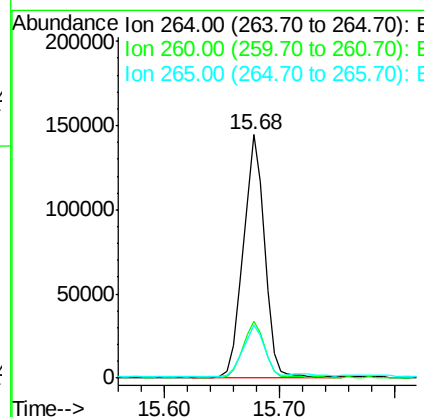
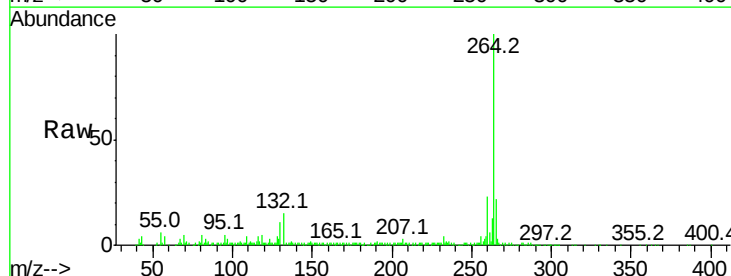
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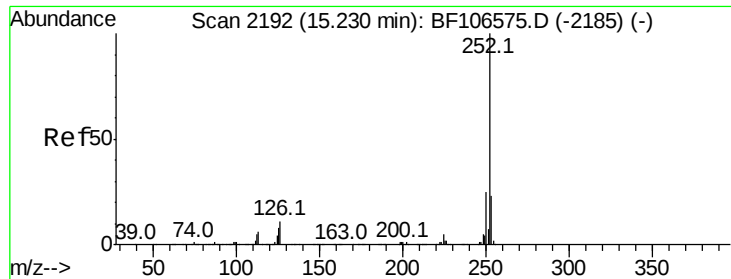
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.68 min Scan# 2268  
Delta R.T. -0.04 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 21.6  | 17.5  | 26.3  |





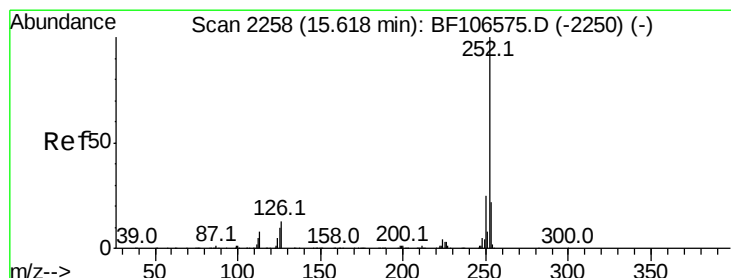
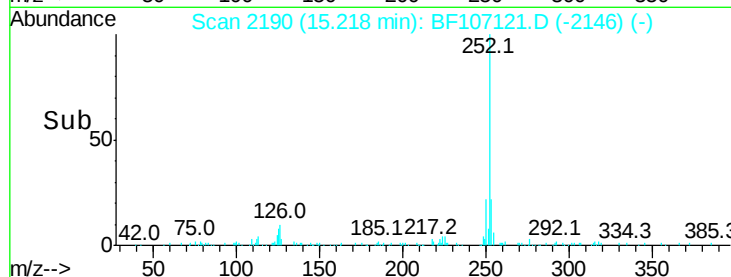
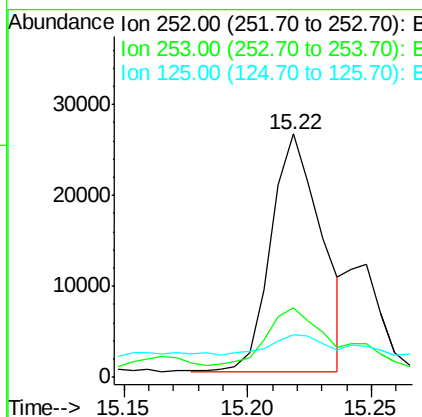
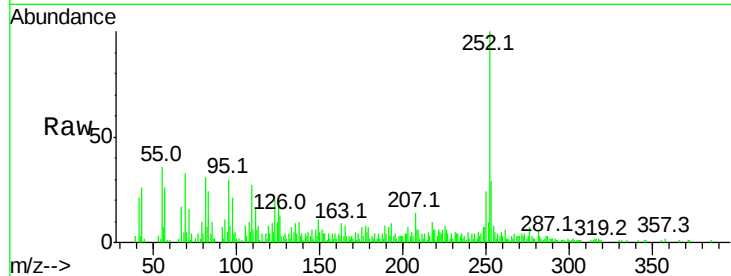
#87  
Benzo(b)fluoranthene  
Concen: 3.224 ng m  
RT: 15.22 min Scan# 2190  
Delta R.T. -0.04 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

Instrument :  
BNA\_F  
ClientSampleId :  
JC-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.8  | 17.0  | 25.6# |
| 125     | 17.4  | 9.0   | 13.6# |

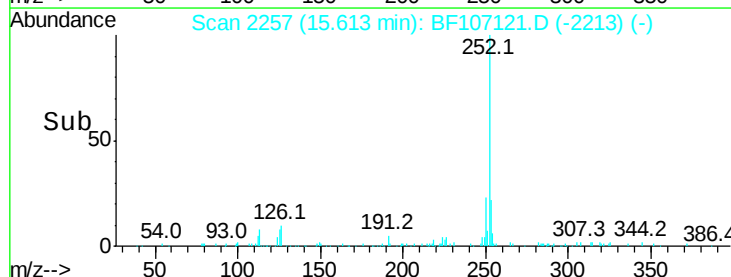
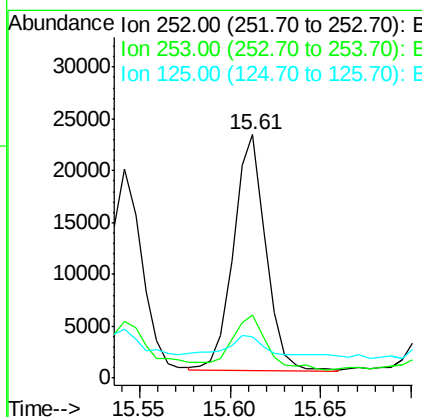
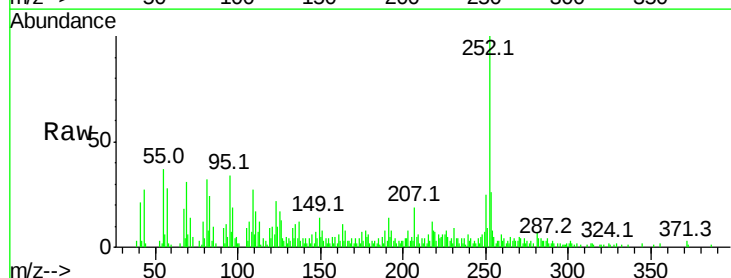
Manual Integrations  
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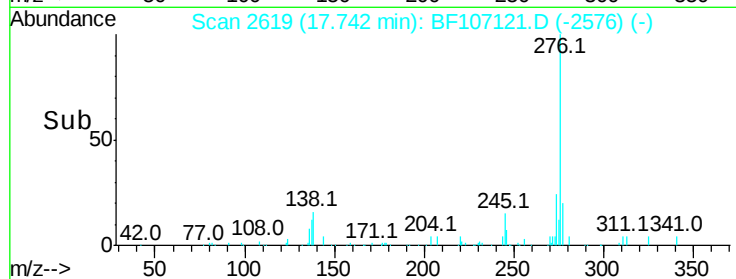
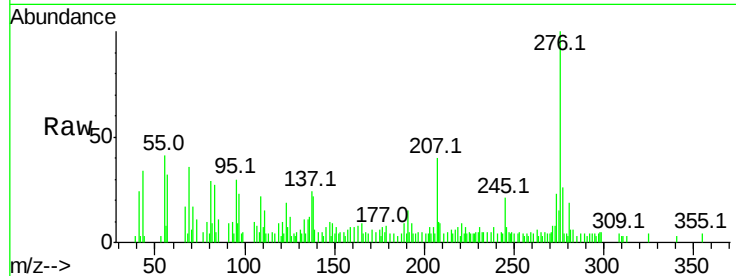
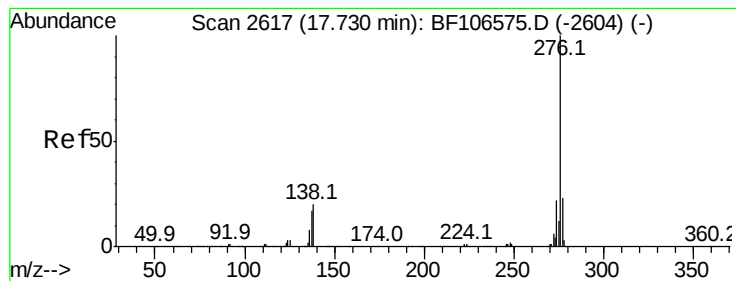
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#89  
Benzo(a)pyrene  
Concen: 2.758 ng  
RT: 15.61 min Scan# 2257  
Delta R.T. -0.04 min  
Lab File: BF107121.D  
Acq: 5 Jul 2018 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.7  | 17.1  | 25.7  |
| 125     | 17.2  | 9.8   | 14.6# |





#91

Benzo(a,h,i)perylene

Concen: 2.472 ng

RT: 17.74 min Scan# 2619

Delta R.T. -0.05 min

Lab File: BF107121.D

Acq: 5 Jul 2018 12:40

Instrument :

BNA\_F

ClientSampleId :

JC-SOIL

Tot Ion: 276 Resp: 20870

Ion Ratio Lower Upper

276 100

277 25.5 17.9 26.9

138 21.6 21.8 32.8#

Manual Integrations  
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