

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082919\  
 Data File : BG042563.D  
 Acq On : 29 Aug 2019 13:42  
 Operator : HP/JU  
 Sample : K4470-02  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S702-N-1.0-1.5-082119RE

Manual Integrations  
 APPROVED

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 8/30/2019 7:57:36 PM

Quant Time: Aug 29 14:24:32 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 22 14:29:15 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.00  | 152  | 23118    | 20.00   | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.82 | 136  | 89288    | 20.00   | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.66 | 164  | 74105    | 20.00   | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.41 | 188  | 199209   | 20.00   | ng    | 0.00     |
| 76) Chrysene-d12            | 21.69 | 240  | 246253   | 20.00   | ng    | 0.00     |
| 87) Perylene-d12            | 24.93 | 264  | 302188   | 20.00   | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.56  | 112  | 126115   | 110.49  | ng    | 0.00     |
| 7) Phenol-d6                | 7.16  | 99   | 173062   | 112.24  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.16  | 82   | 94055    | 72.79   | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.15 | 330  | 144789   | 137.46  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.28 | 172  | 316007   | 72.12   | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.02 | 244  | 783688   | 68.80   | ng    | 0.00     |
| Target Compounds            |       |      |          |         |       |          |
| 10) Phenol                  | 7.18  | 94   | 3909     | 2.493   | ng    | # 58     |
| 31) Naphthalene             | 10.87 | 128  | 10221    | 2.466   | ng    | # 94     |
| 37) 2-Methylnaphthalene     | 12.49 | 142  | 10274    | 3.087   | ng    | 95       |
| 38) 1-Methylnaphthalene     | 12.70 | 142  | 6905m    | 2.184   | ng    |          |
| 50) Dimethylphthalate       | 14.10 | 163  | 41380    | 7.739   | ng    | 97       |
| 52) Acenaphthene            | 14.72 | 154  | 51884    | 13.750  | ng    | 99       |
| 55) Dibenzofuran            | 15.06 | 168  | 42582    | 6.818   | ng    | 98       |
| 58) Fluorene                | 15.71 | 166  | 59268    | 11.608  | ng    | 99       |
| 71) Phenanthrene            | 17.45 | 178  | 713915   | 72.149  | ng    | 98       |
| 72) Anthracene              | 17.54 | 178  | 247671   | 25.072  | ng    | 99       |
| 73) Carbazole               | 17.81 | 167  | 67740    | 7.694   | ng    | 97       |
| 75) Fluoranthene            | 19.47 | 202  | 1281150  | 106.089 | ng    | 97       |
| 78) Pvrene                  | 19.83 | 202  | 1164337  | 77.120  | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.67 | 228  | 823610   | 54.981  | ng    | 99       |
| 83) Chrysene                | 21.74 | 228  | 680619   | 47.112  | ng    | 96       |
| 86) Indeno(1,2,3-cd)pyrene  | 28.65 | 276  | 470756   | 23.978  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 23.91 | 252  | 935902   | 56.335  | ng    | 99       |
| 89) Benzo(k)fluoranthene    | 23.97 | 252  | 360695m  | 22.587  | ng    |          |
| 90) Benzo(a)pvrene          | 24.79 | 252  | 749879   | 47.568  | ng    | 96       |
| 91) Dibenzo(a,h)anthracene  | 28.68 | 278  | 119558m  | 7.490   | ng    |          |
| 92) Benzo(g,h,i)perylene    | 29.81 | 276  | 451200   | 28.263  | ng    | 98       |

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

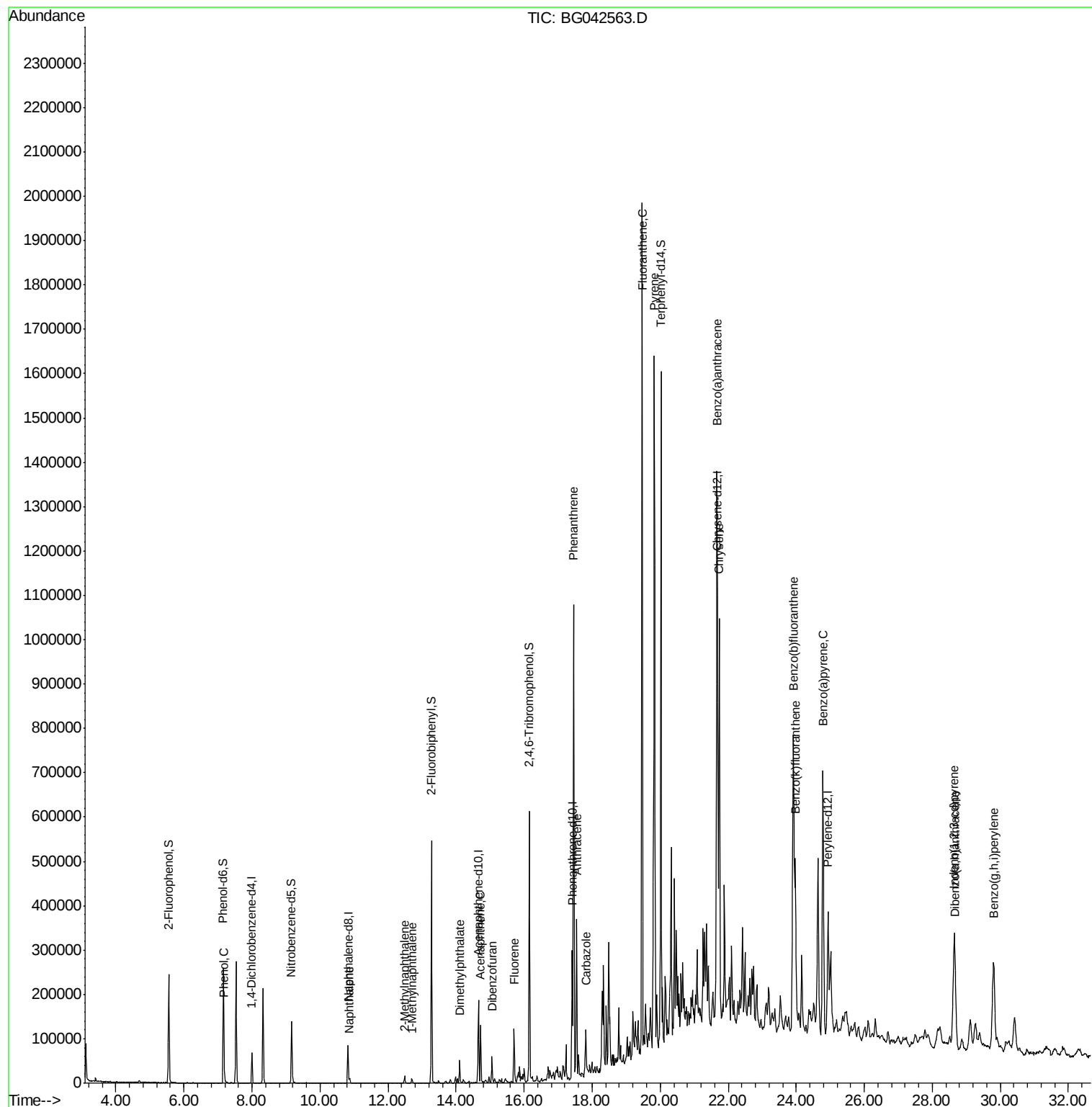
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082919\  
Data File : BG042563.D  
Acq On : 29 Aug 2019 13:42  
Operator : HP/JU  
Sample : K4470-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

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Quant Time: Aug 29 14:24:32 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 22 14:29:15 2019  
Response via : Initial Calibration





#1

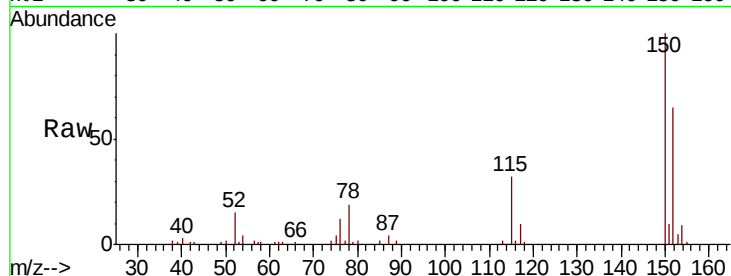
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.00 min Scan# 836  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.7 | 125.4 | 188.0 |
| 115     | 49.1  | 38.5  | 57.7  |

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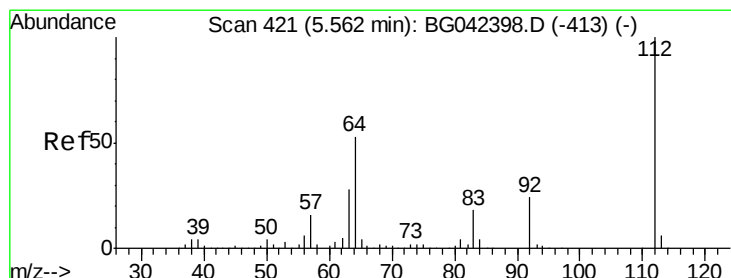
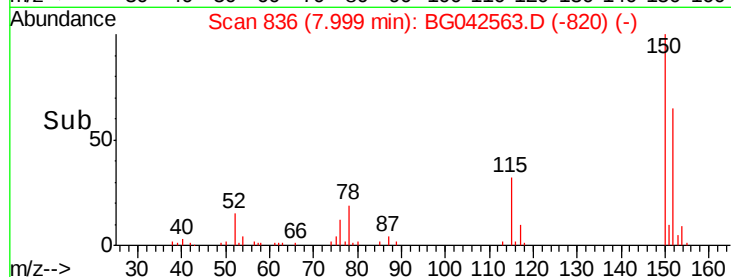
Abundance

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

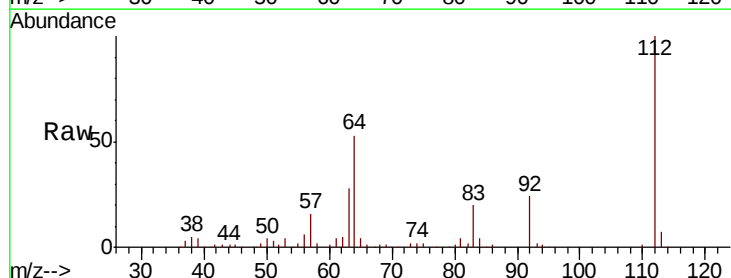
Time-->



#5

2-Fluorophenol  
Concen: 110.485 ng  
RT: 5.56 min Scan# 420  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.9  | 42.8  | 64.2  |
| 63      | 27.7  | 22.7  | 34.1  |



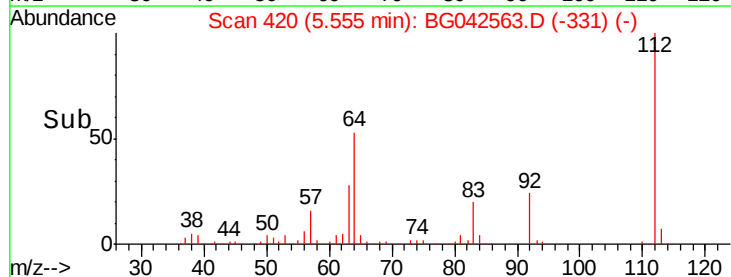
Abundance

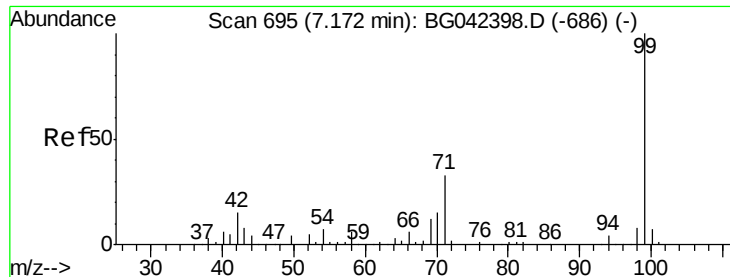
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

Time-->





#7

Phenol-d6

Concen: 112.242 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042563.D

Acq: 29 Aug 2019 13:42

Instrument :

BNA\_G

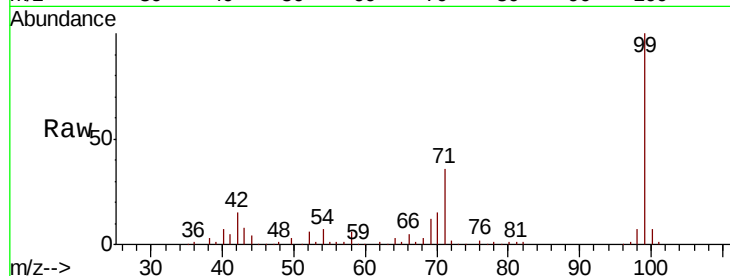
ClientSampleId :

S702-N-1.0-1.5-082119RE

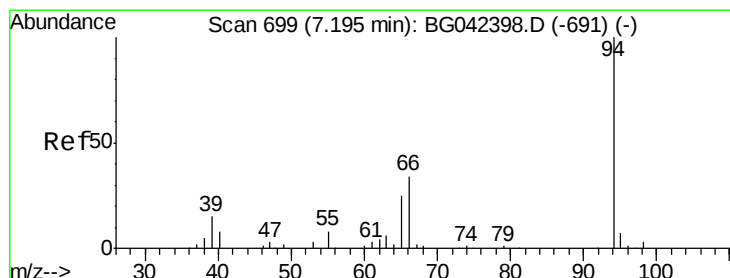
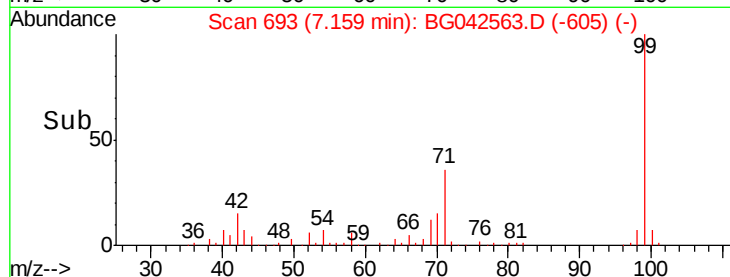
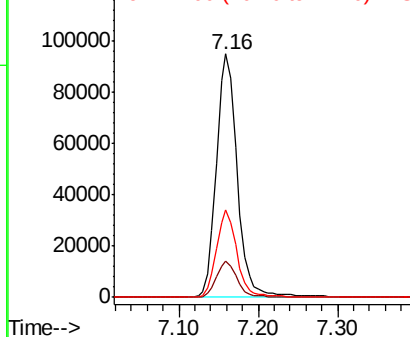
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 173062 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 15.1  | 12.0  | 18.0   |
| 71       | 36.1  | 26.3  | 39.5   |

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Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#10

Phenol

Concen: 2.493 ng

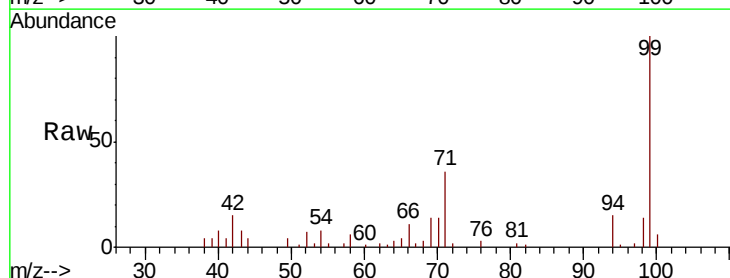
RT: 7.18 min Scan# 697

Delta R.T. -0.01 min

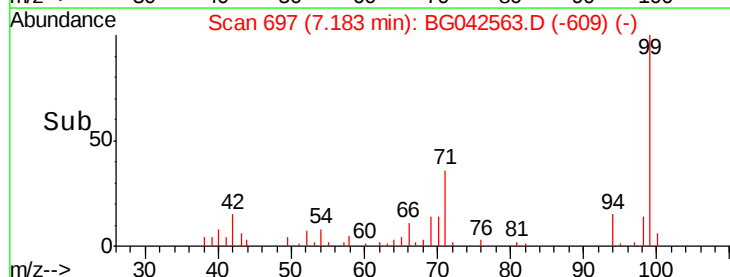
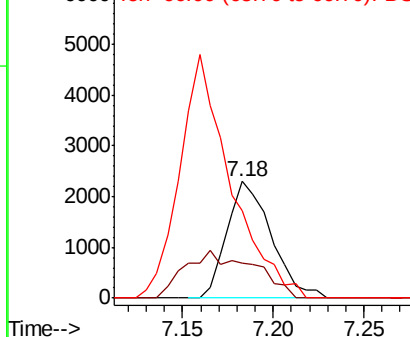
Lab File: BG042563.D

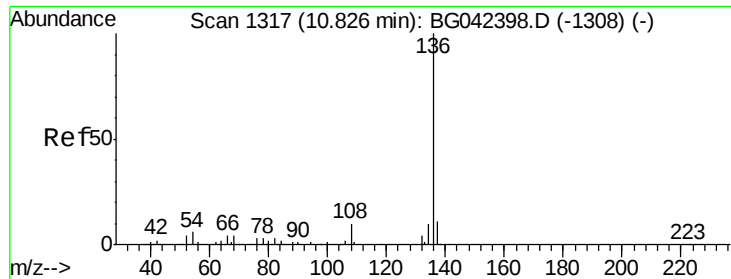
Acq: 29 Aug 2019 13:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 3909  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 29.5  | 5.6   | 45.6  |
| 66       | 74.6  | 16.0  | 56.0# |



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC





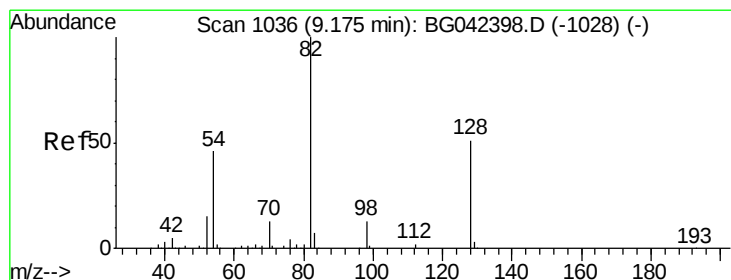
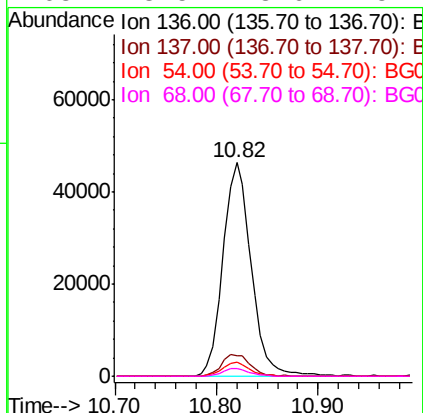
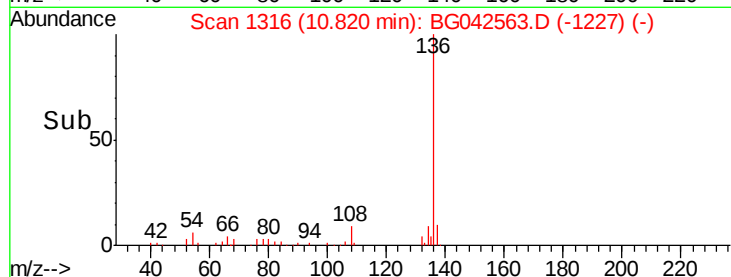
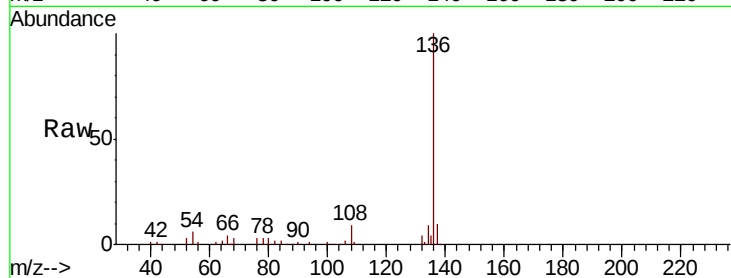
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.82 min Scan# 1316  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 9.9   | 8.7  | 13.1  |       |
| 54      | 6.4   | 4.9  | 7.3   |       |
| 68      | 3.5   | 3.6  | 5.4   |       |

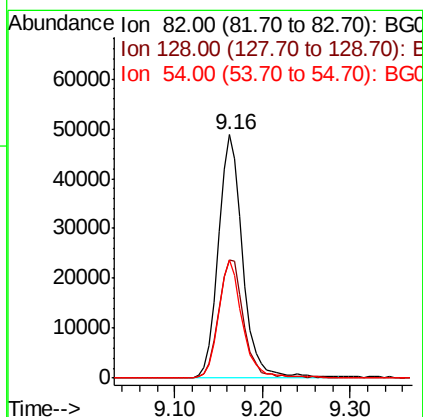
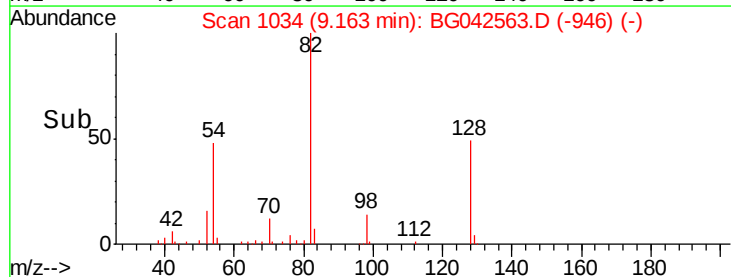
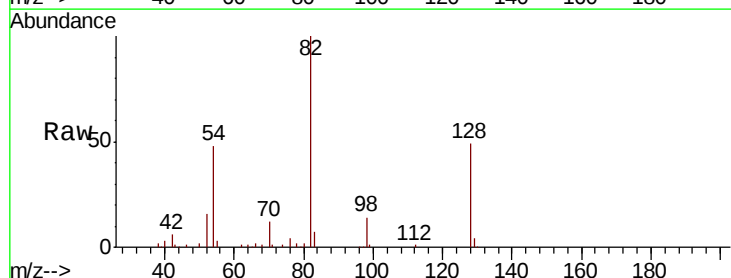
Manual Integrations  
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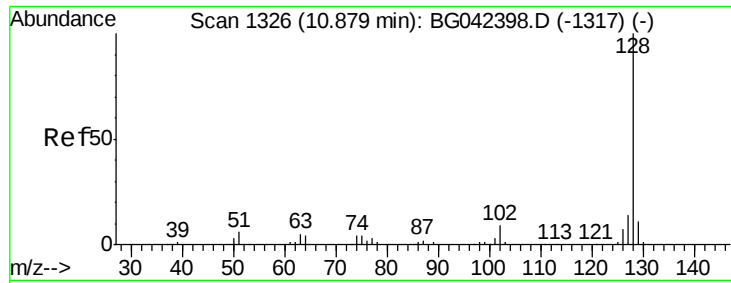
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#23  
Nitrobenzene-d5  
Concen: 72.793 ng  
RT: 9.16 min Scan# 1034  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 48.7  | 40.7 | 61.1  |       |
| 54      | 48.3  | 36.3 | 54.5  |       |





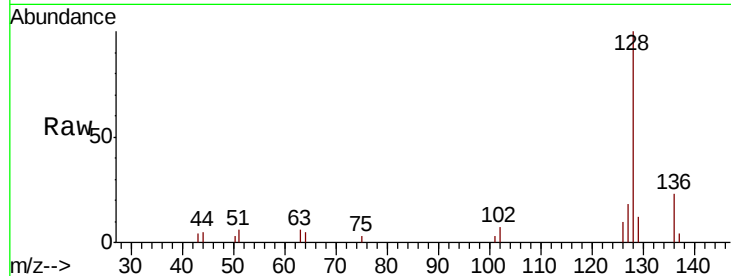
#31  
Naphthalene  
Concen: 2.466 ng  
RT: 10.87 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 12.0  | 8.8   | 13.2  |
| 127     | 18.0  | 11.4  | 17.0  |

Manual Integrations  
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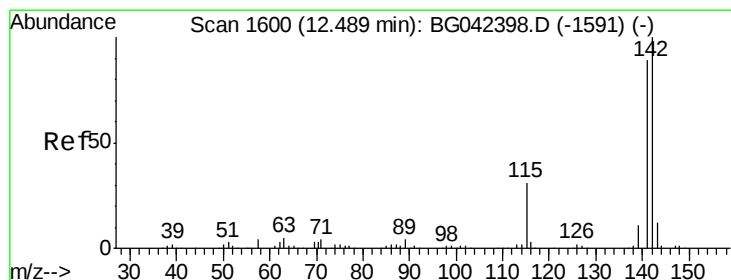
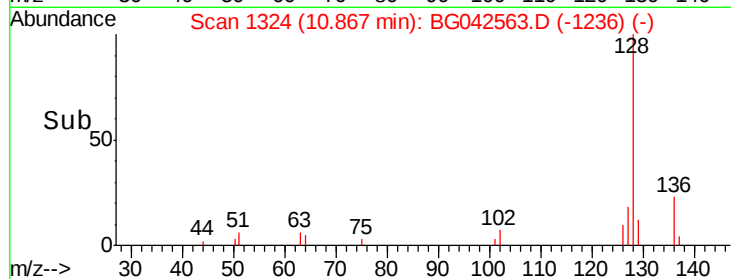
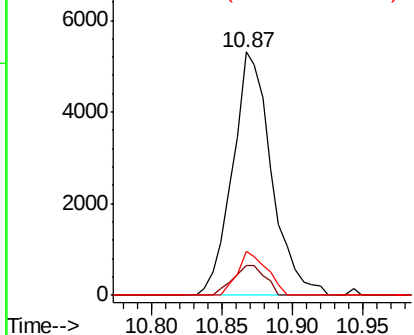


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37  
2-Methylnaphthalene  
Concen: 3.087 ng  
RT: 12.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

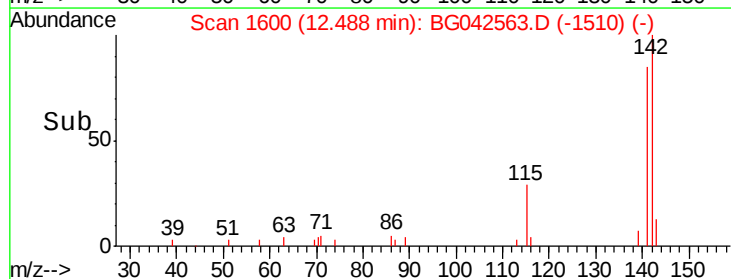
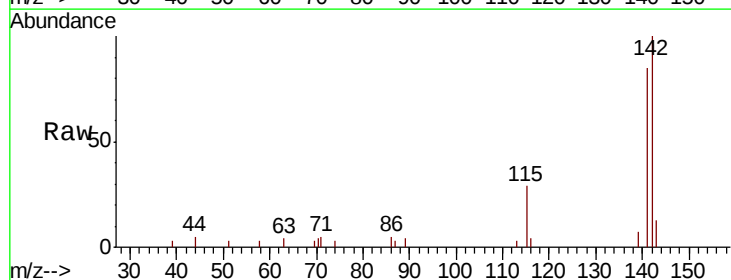
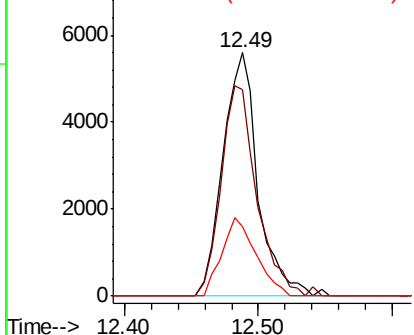
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.0  | 71.4  | 107.2 |
| 115     | 28.6  | 25.2  | 37.8  |

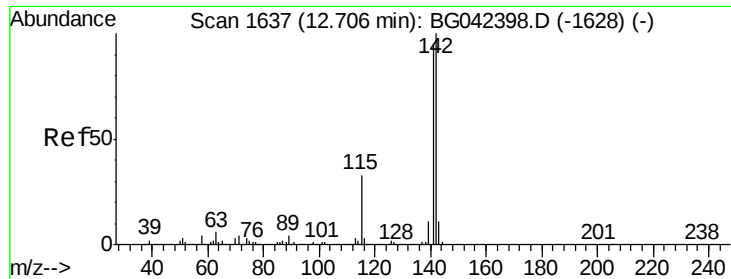
Abundance

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





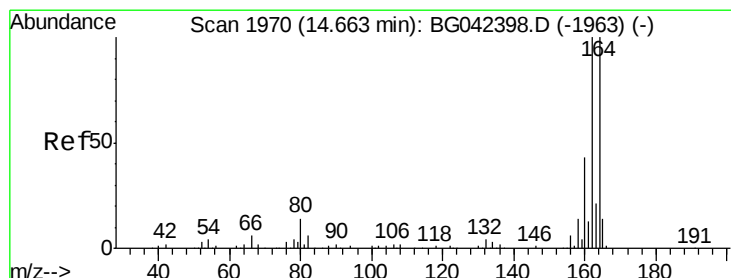
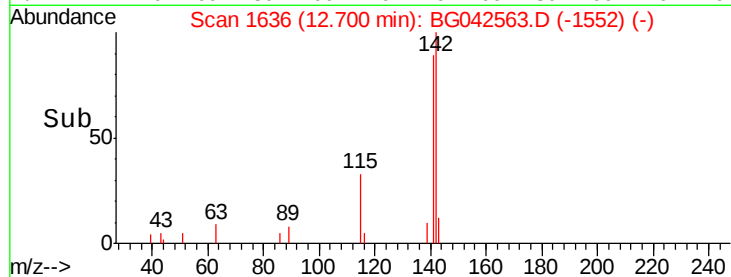
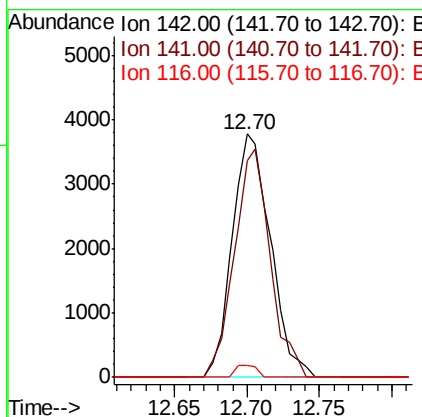
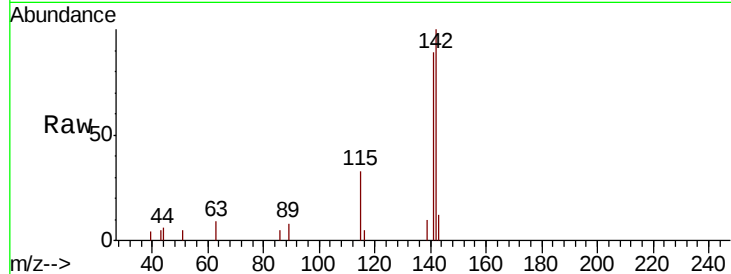
#38  
1-Methylnaphthalene  
Concen: 2.184 ng  
RT: 12.70 min Scan# 1636  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.1  | 76.2  | 114.2 |
| 116     | 5.0   | 2.8   | 4.2#  |

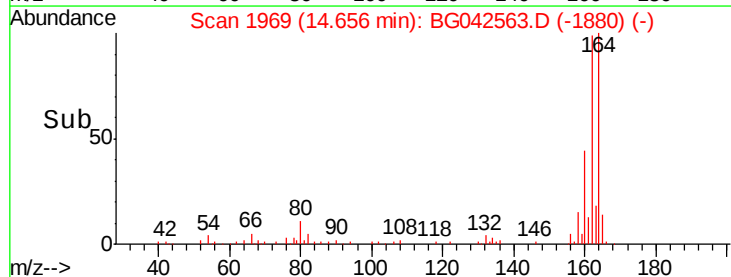
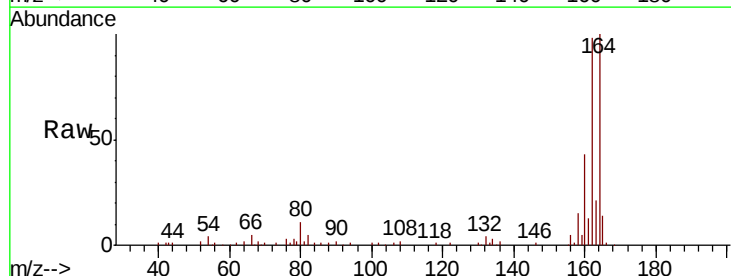
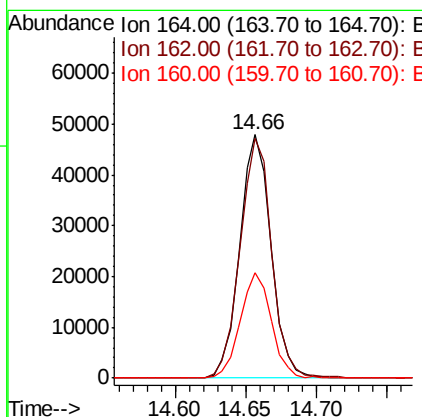
Manual Integrations  
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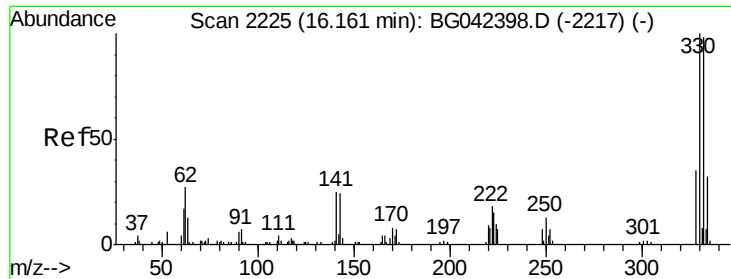
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.66 min Scan# 1969  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.3  | 79.9  | 119.9 |
| 160     | 43.4  | 34.3  | 51.5  |





#42

2,4,6-Tribromophenol

Concen: 137.465 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BG042563.D

Acq: 29 Aug 2019 13:42

Instrument :

BNA\_G

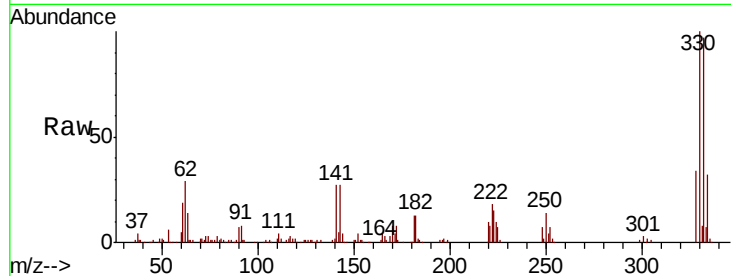
ClientSampleId :

S702-N-1.0-1.5-082119RE

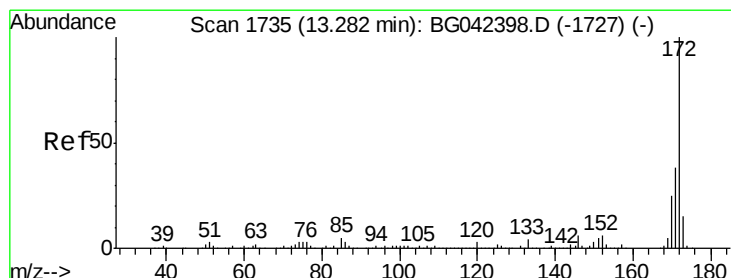
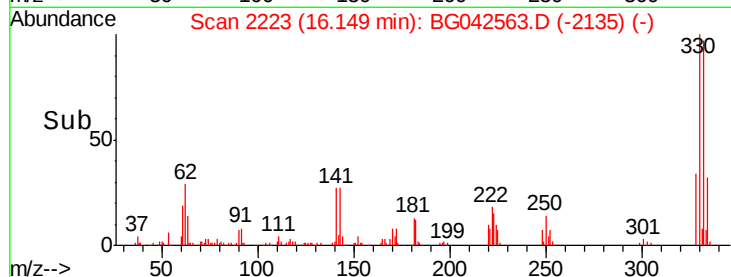
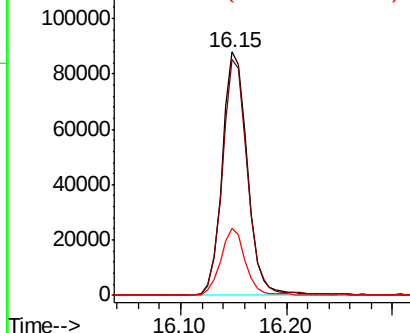
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 144789 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.1  | 77.4  | 116.0  |
| 141       | 27.1  | 21.4  | 32.0   |

Manual Integrations  
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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



#45

2-Fluorobiphenyl

Concen: 72.122 ng

RT: 13.28 min Scan# 1734

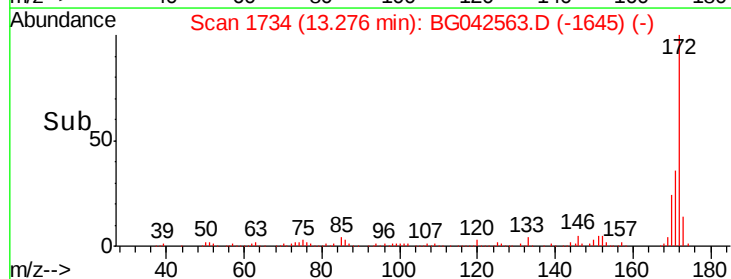
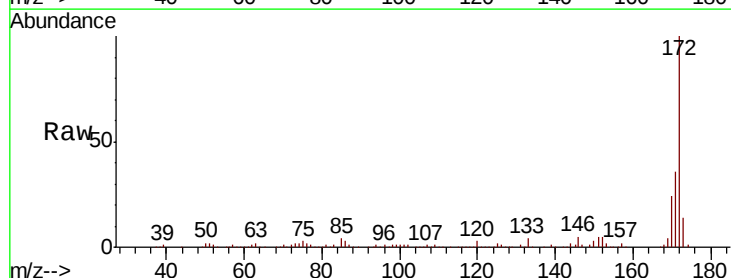
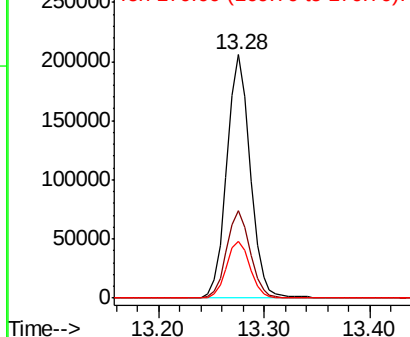
Delta R.T. -0.01 min

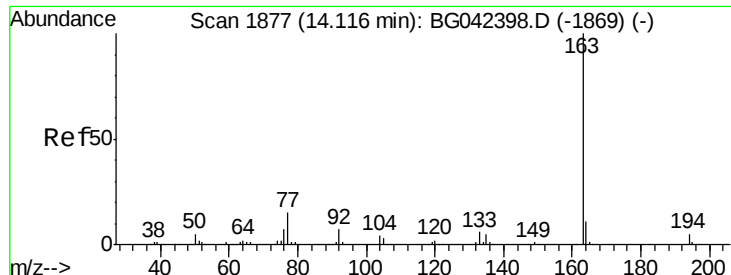
Lab File: BG042563.D

Acq: 29 Aug 2019 13:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 316007 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 36.0  | 30.5  | 45.7   |
| 170       | 23.5  | 20.2  | 30.2   |

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





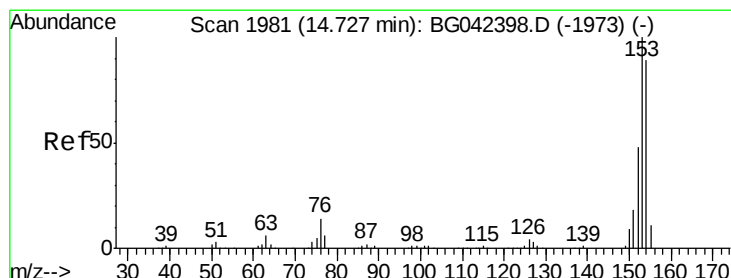
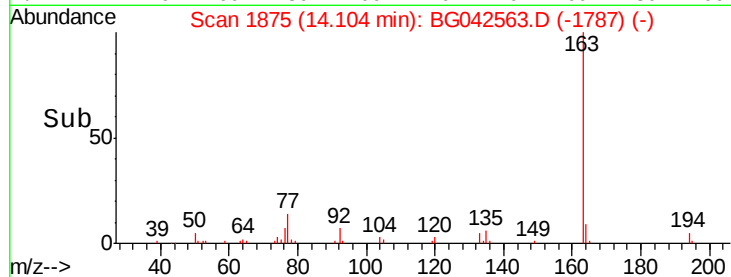
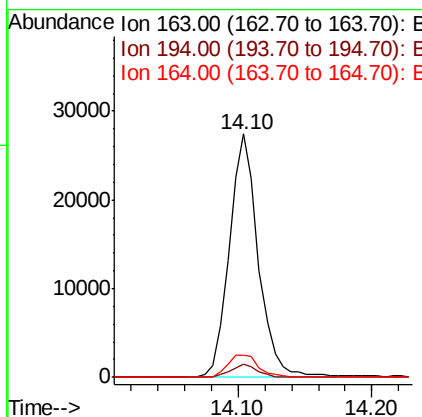
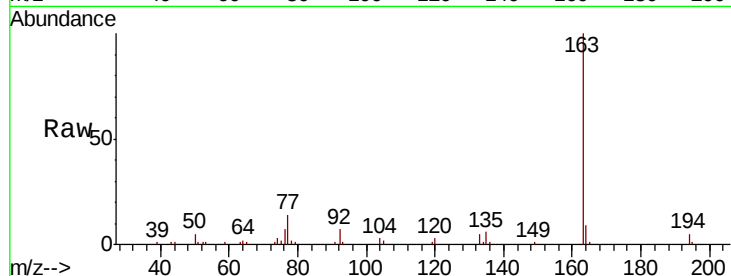
#50  
Dimethylphthalate  
Concen: 7.739 ng  
RT: 14.10 min Scan# 1875  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.3   | 4.2   | 6.2   |
| 164     | 9.2   | 8.8   | 13.2  |

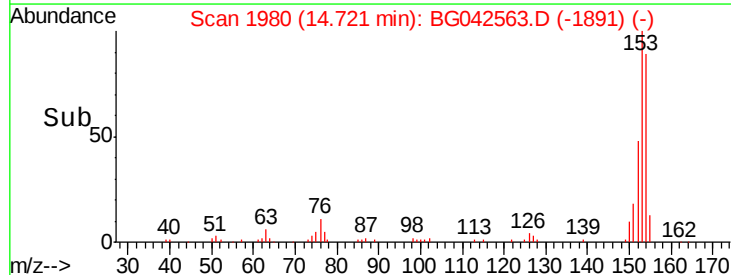
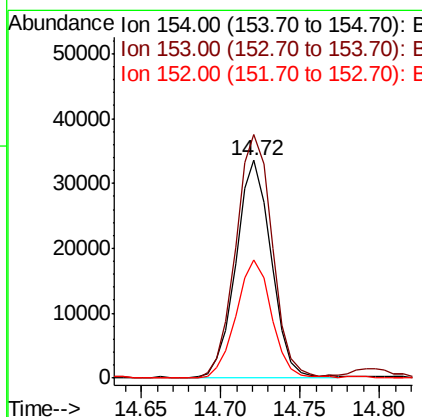
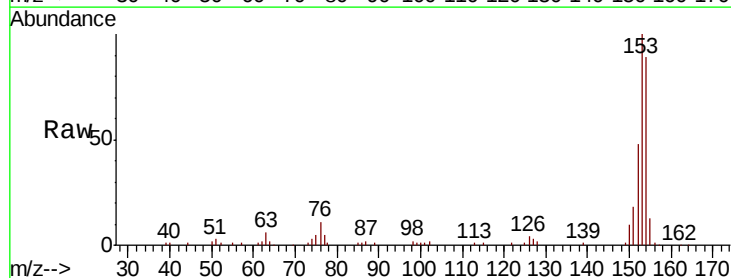
Manual Integrations  
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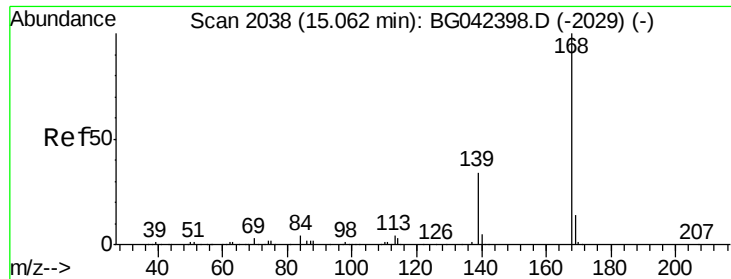
Jagrut  
8/30/2019 7:57:36 PM



#52  
Acenaphthene  
Concen: 13.750 ng  
RT: 14.72 min Scan# 1980  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 111.8 | 90.2  | 135.4 |
| 152     | 54.0  | 43.2  | 64.8  |





#55

Dibenzenofuran

Concen: 6.818 ng

RT: 15.06 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BG042563.D

Acq: 29 Aug 2019 13:42

Instrument :

BNA\_G

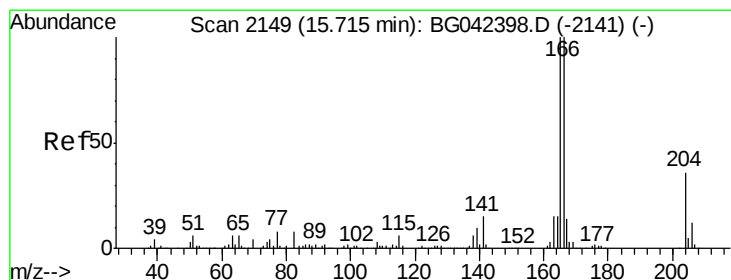
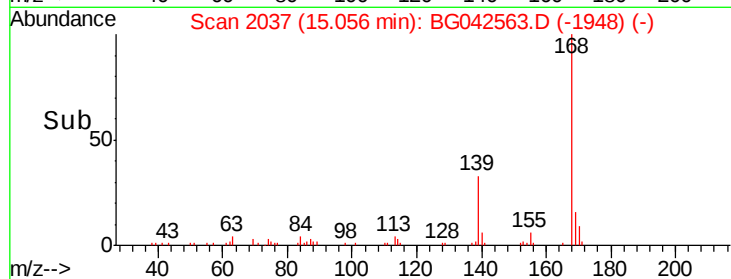
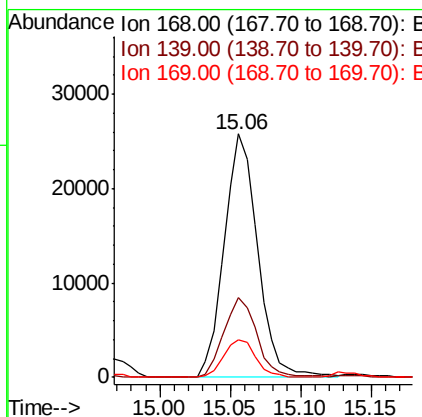
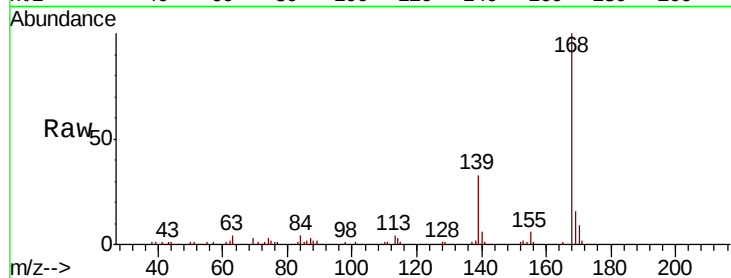
ClientSampleId :

S702-N-1.0-1.5-082119RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 168   | Resp: | 42582 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 32.7  | 27.2  | 40.8  |
| 169       | 15.5  | 11.5  | 17.3  |

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#58

Fluorene

Concen: 11.608 ng

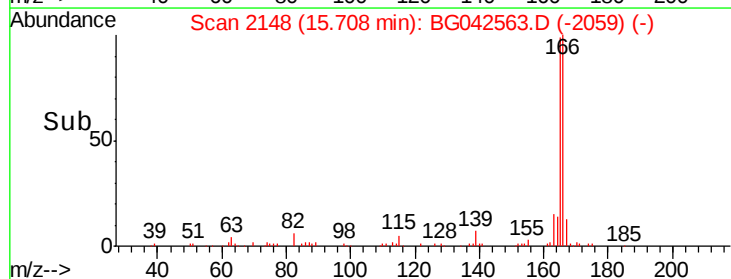
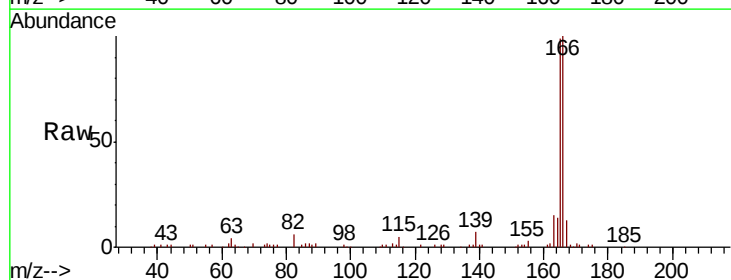
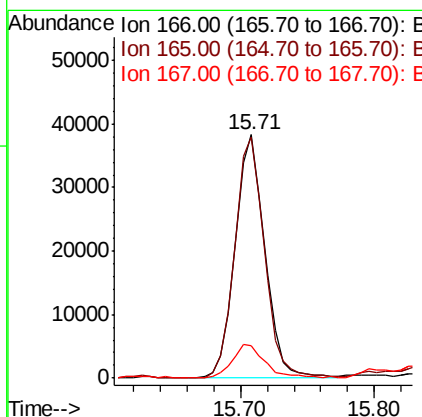
RT: 15.71 min Scan# 2148

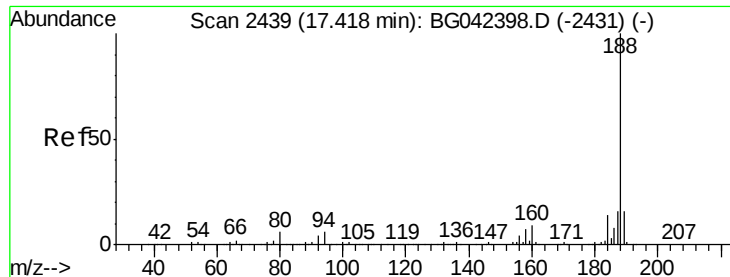
Delta R.T. -0.01 min

Lab File: BG042563.D

Acq: 29 Aug 2019 13:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 59268 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 98.8  | 79.7  | 119.5 |
| 167       | 13.2  | 10.9  | 16.3  |





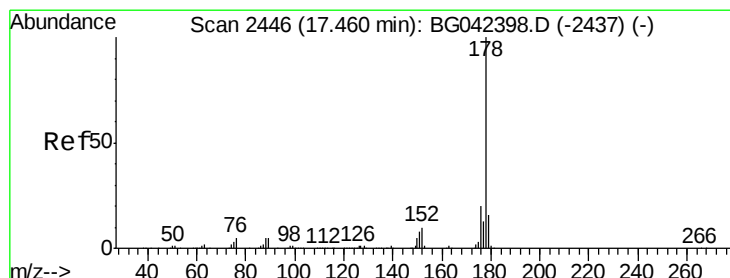
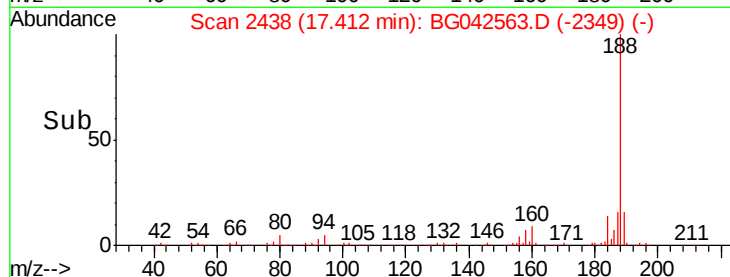
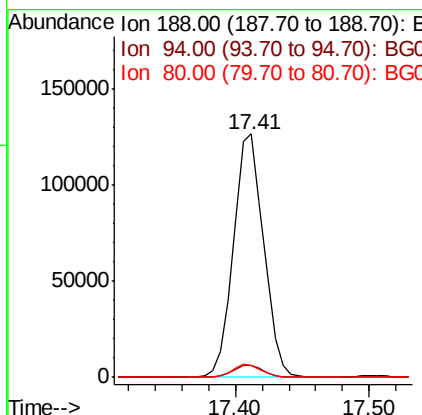
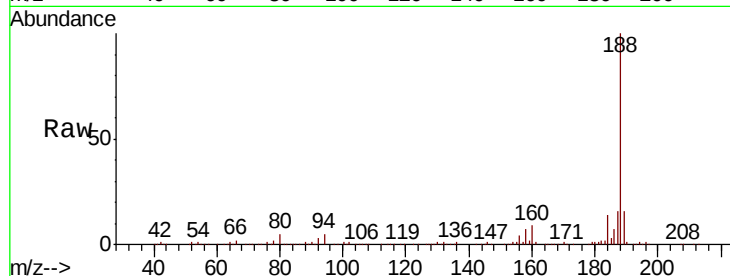
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.41 min Scan# 2438  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 199209 |       |       |
| 94      | 5.0   |        | 4.5   | 6.7   |
| 80      | 5.1   |        | 4.9   | 7.3   |

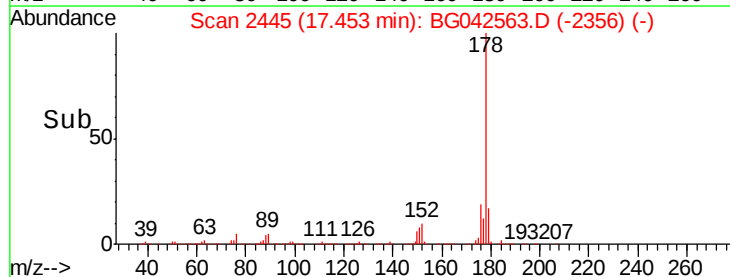
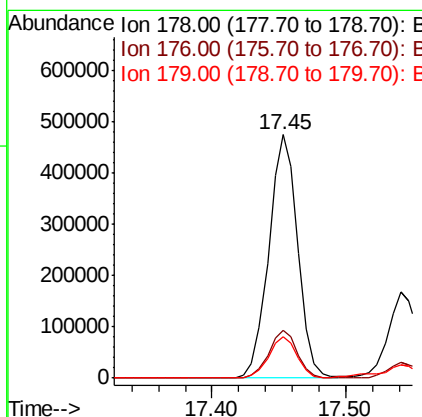
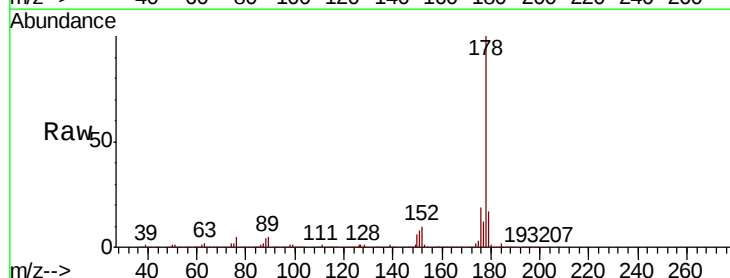
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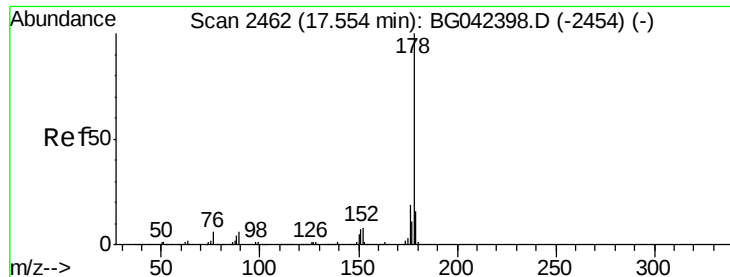
Jagrut  
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#71  
Phenanthrene  
Concen: 72.149 ng  
RT: 17.45 min Scan# 2445  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 713915 |       |       |
| 176     | 19.5  |        | 15.9  | 23.9  |
| 179     | 16.9  |        | 12.7  | 19.1  |





#72

Anthracene

Concen: 25.072 ng

RT: 17.54 min Scan# 2460

Delta R.T. -0.01 min

Lab File: BG042563.D

Acq: 29 Aug 2019 13:42

Instrument :

BNA\_G

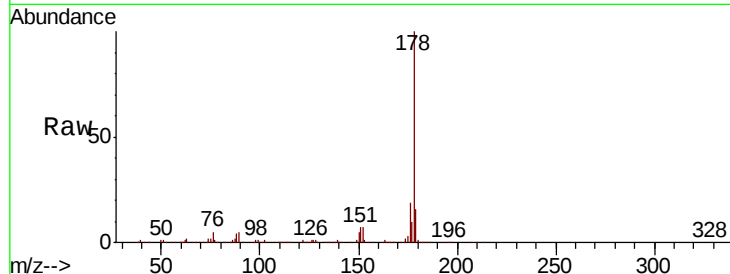
ClientSampleId :

S702-N-1.0-1.5-082119RE

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 247671    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.6  | 15.5 23.3 |
| 179         | 15.8  | 12.9 19.3 |

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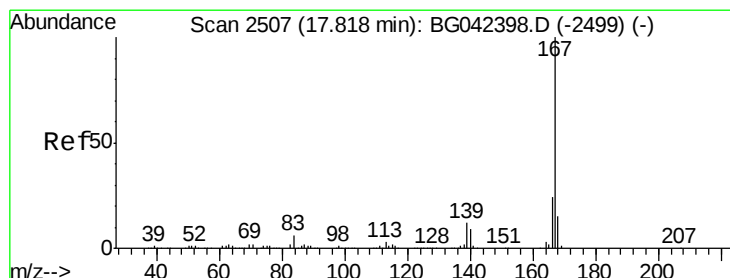
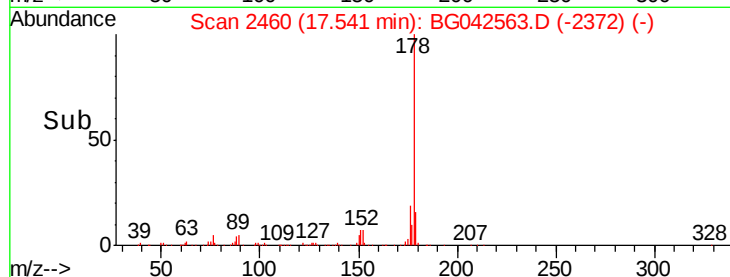
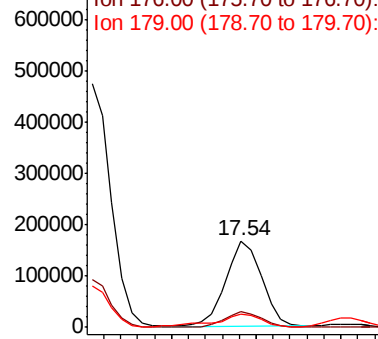


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 7.694 ng

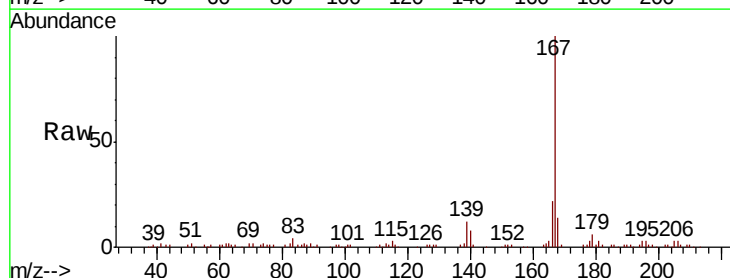
RT: 17.81 min Scan# 2506

Delta R.T. -0.01 min

Lab File: BG042563.D

Acq: 29 Aug 2019 13:42

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 67740     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 21.7  | 18.9 28.3 |
| 139         | 11.8  | 9.8 14.6  |

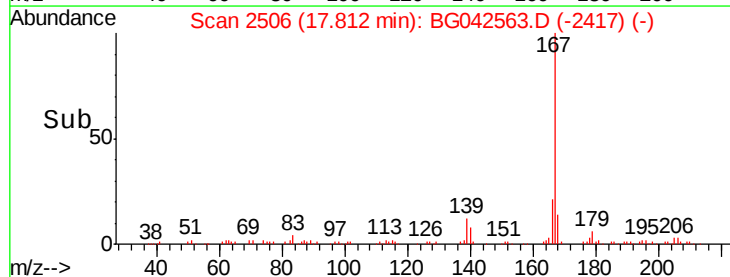
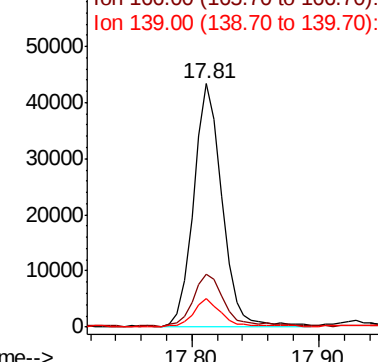


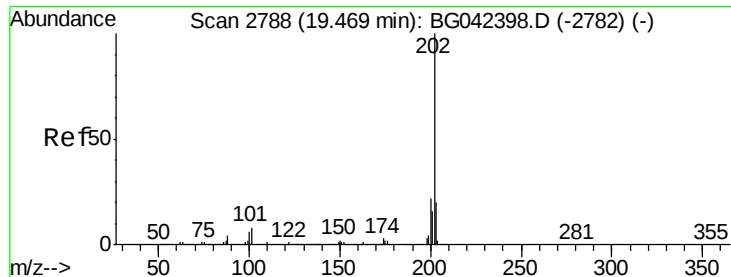
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 106.089 ng

RT: 19.47 min Scan# 2788

Delta R.T. -0.00 min

Lab File: BG042563.D

Acq: 29 Aug 2019 13:42

Instrument :

BNA\_G

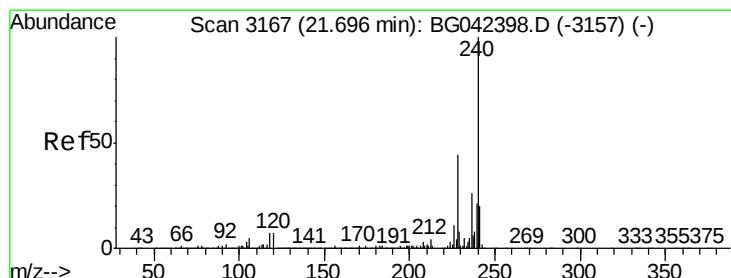
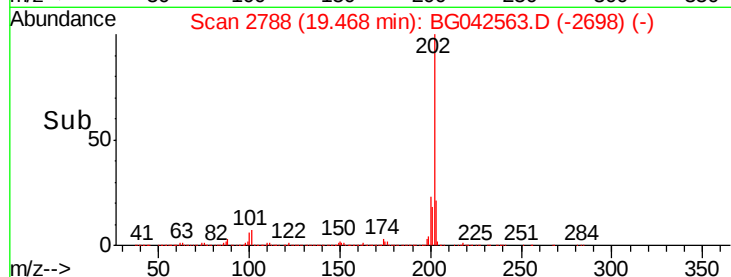
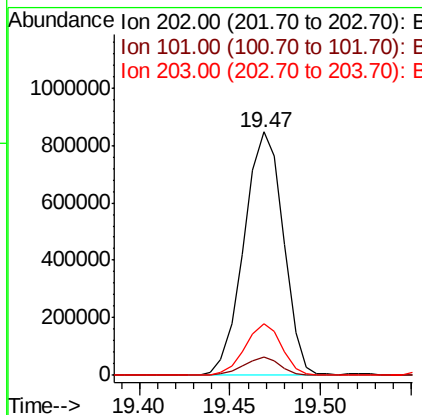
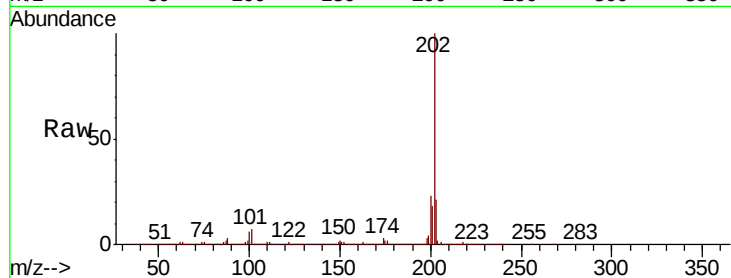
ClientSampleId :

S702-N-1.0-1.5-082119RE

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 1281150 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 7.3   | 0.0   | 28.3    |
| 203      | 21.1  | 0.0   | 39.6    |

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#76

Chrysene-d12

Concen: 20.000 ng

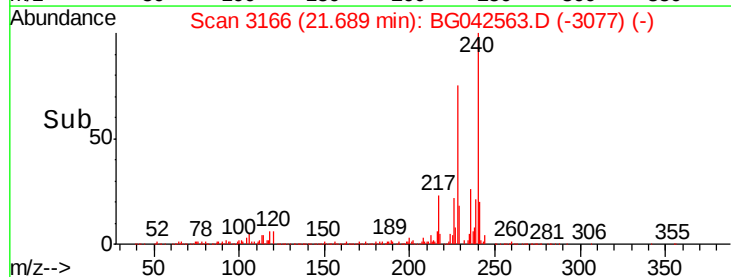
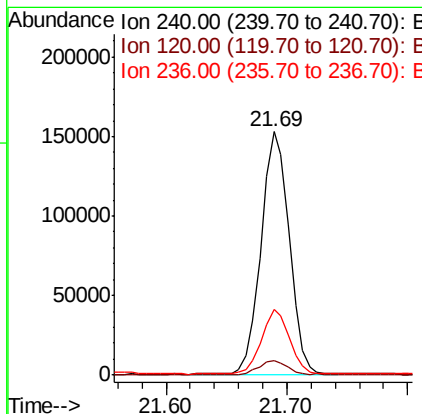
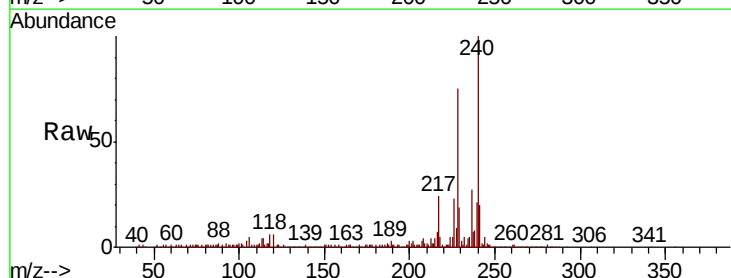
RT: 21.69 min Scan# 3166

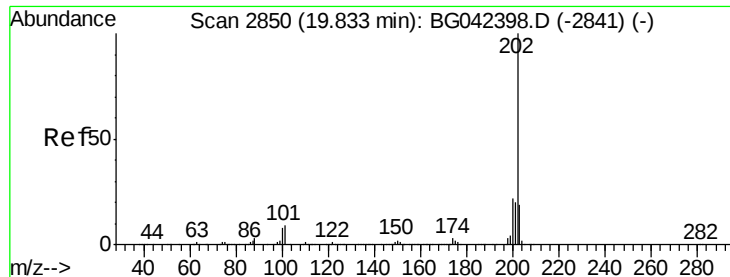
Delta R.T. -0.01 min

Lab File: BG042563.D

Acq: 29 Aug 2019 13:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 246253 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 6.0   | 5.7   | 8.5    |
| 236      | 26.7  | 21.0  | 31.4   |





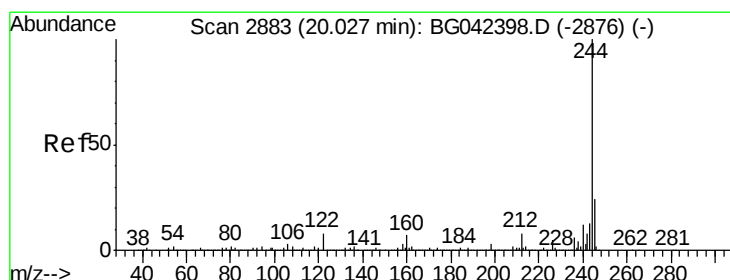
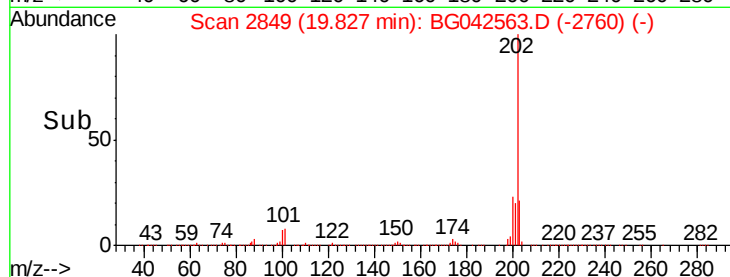
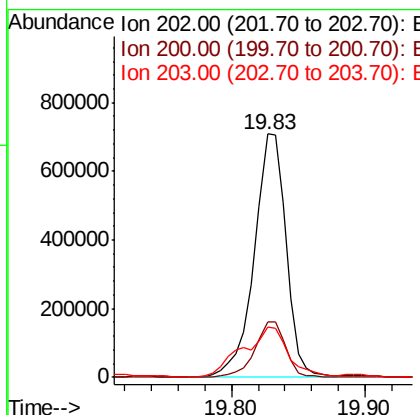
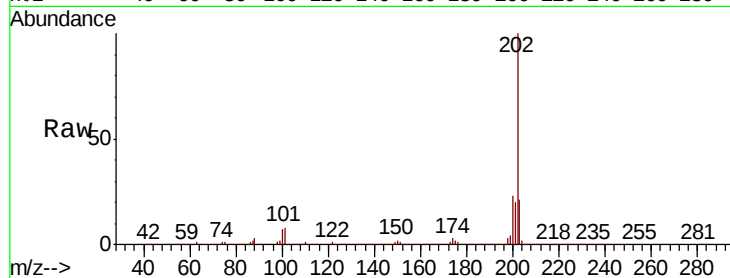
#78  
Pvrene  
Concen: 77.120 ng  
RT: 19.83 min Scan# 2849  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.8  | 17.8  | 26.6  |
| 203     | 20.6  | 15.5  | 23.3  |

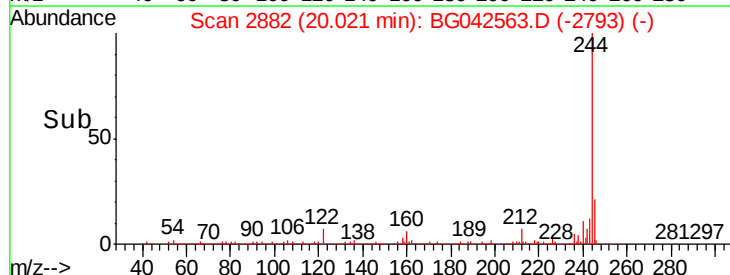
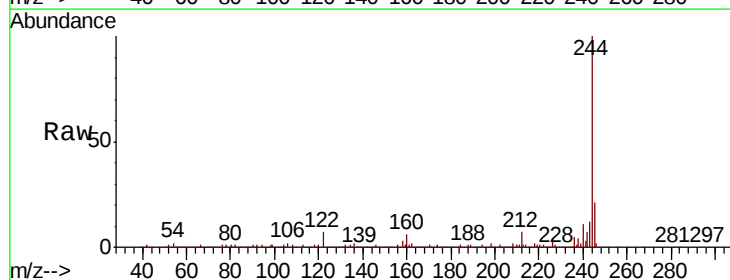
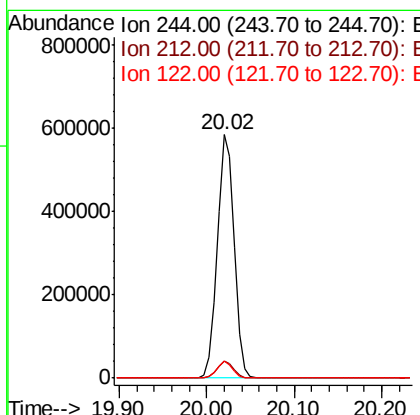
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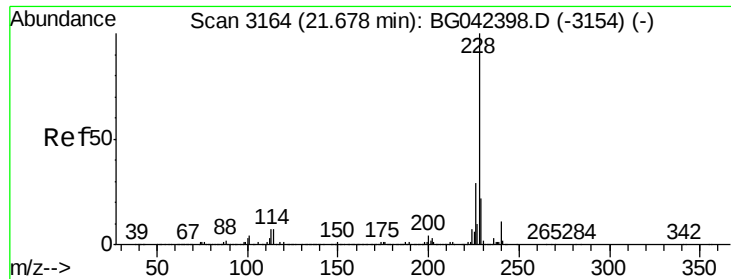
Jagrut  
8/30/2019 7:57:36 PM



#79  
Terphenyl-d14  
Concen: 68.802 ng  
RT: 20.02 min Scan# 2882  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 6.0   | 9.0   |
| 122     | 7.1   | 6.7   | 10.1  |





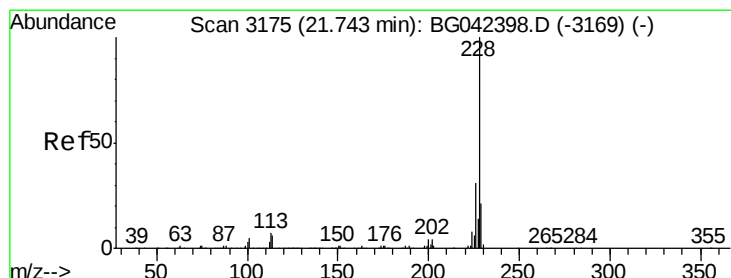
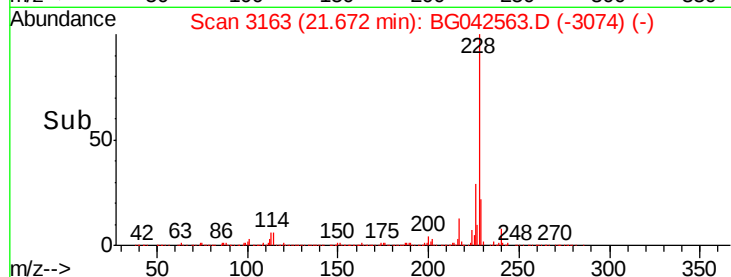
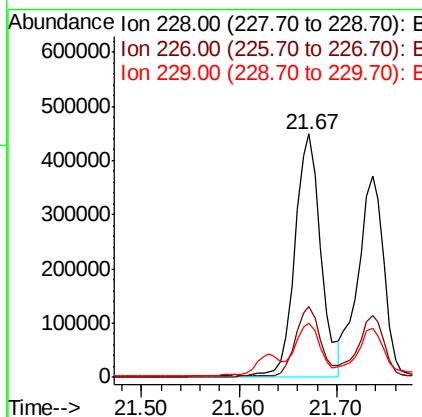
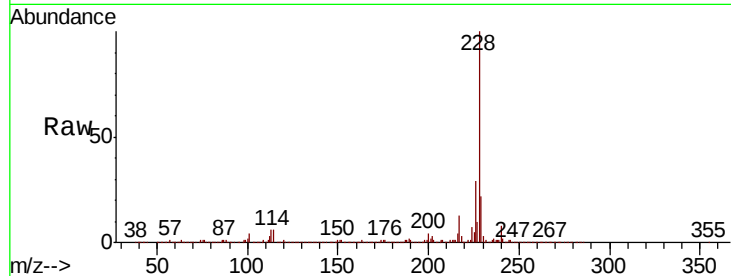
#81  
Benzo(a)anthracene  
Concen: 54.981 ng  
RT: 21.67 min Scan# 3163  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 23.4  | 35.2  |
| 229     | 22.5  | 17.4  | 26.2  |

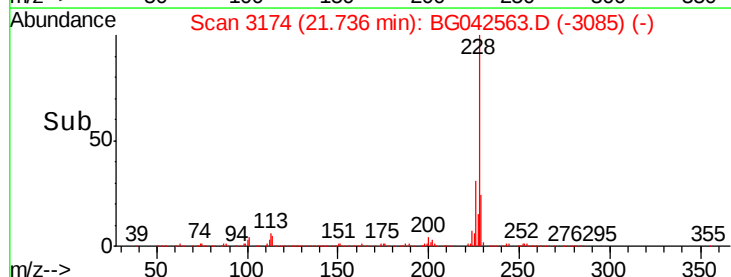
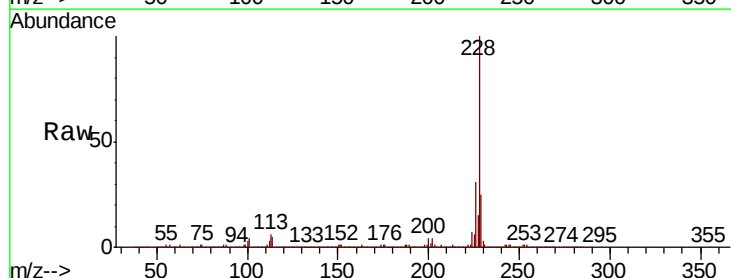
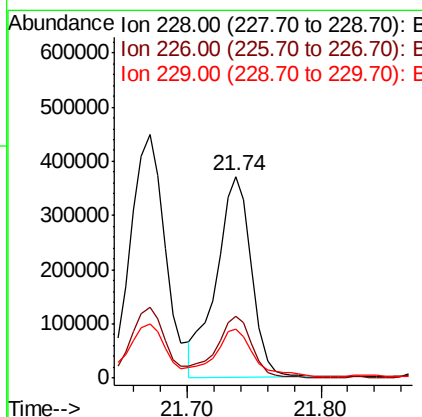
Manual Integrations  
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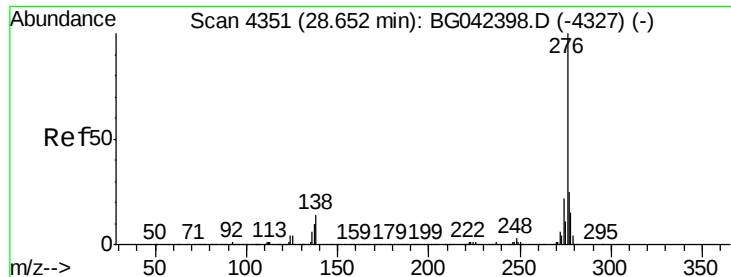
Jagrut  
8/30/2019 7:57:36 PM



#83  
Chrysene  
Concen: 47.112 ng  
RT: 21.74 min Scan# 3174  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 24.9  | 37.3  |
| 229     | 24.6  | 16.9  | 25.3  |





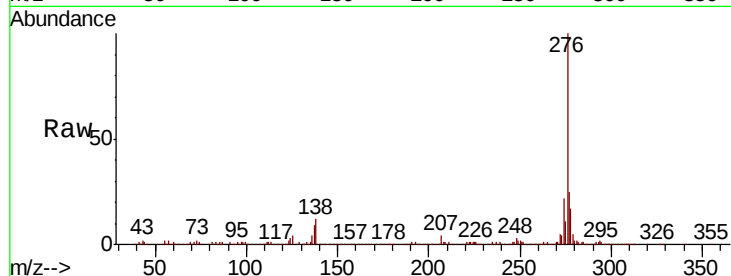
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 23.978 ng  
RT: 28.65 min Scan# 4350  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

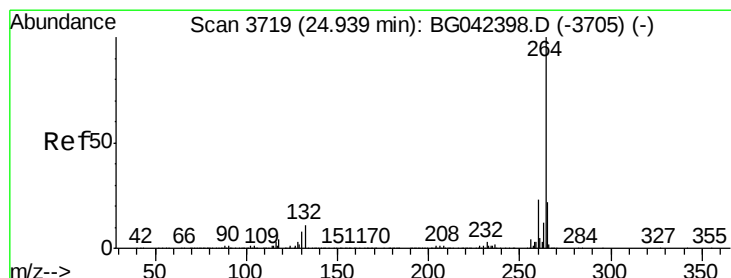
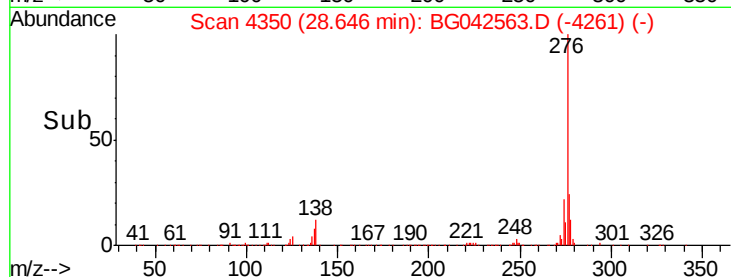
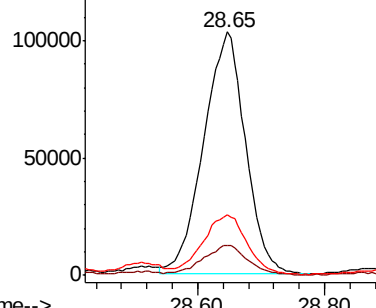
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 12.8  | 9.2   | 13.8  |
| 277     | 25.8  | 21.0  | 31.6  |

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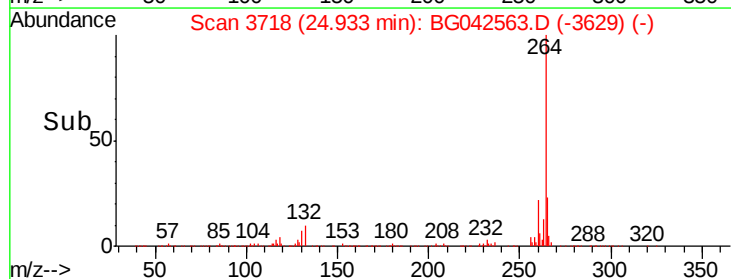
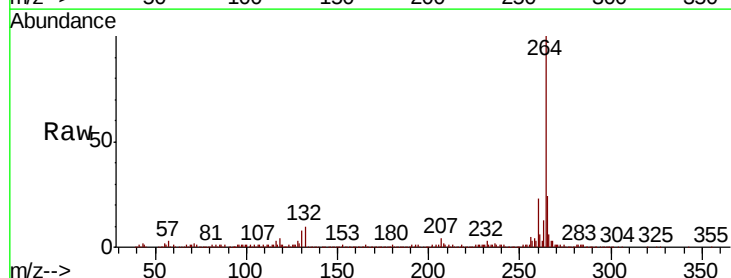
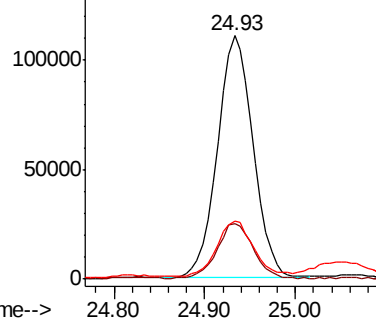
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

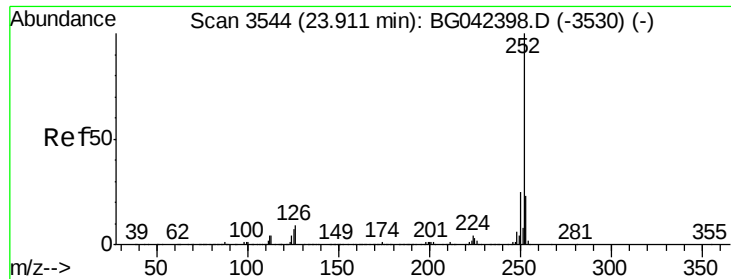


#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.93 min Scan# 3718  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 18.5  | 27.7  |
| 265     | 23.9  | 17.6  | 26.4  |

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





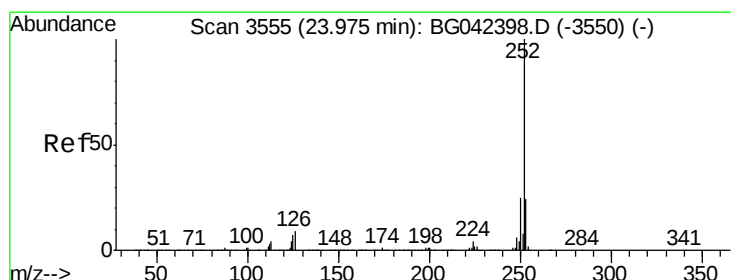
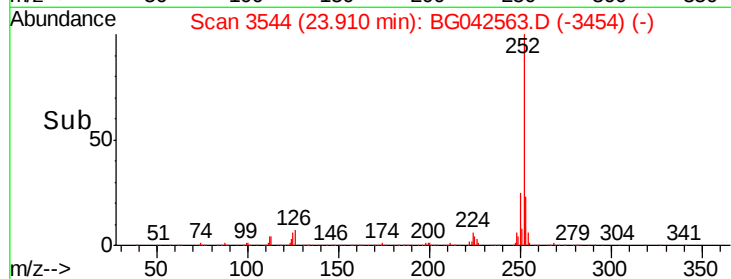
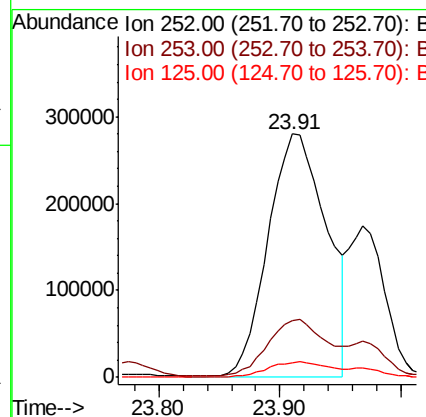
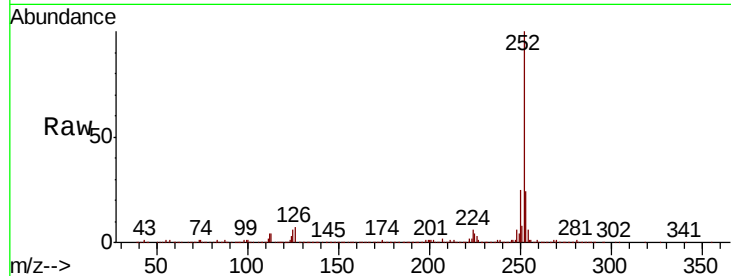
#88  
Benzo(b)fluoranthene  
Concen: 56.335 ng  
RT: 23.91 min Scan# 3544  
Delta R.T. -0.00 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 18.6  | 27.8  |
| 125     | 6.1   | 5.6   | 8.4   |

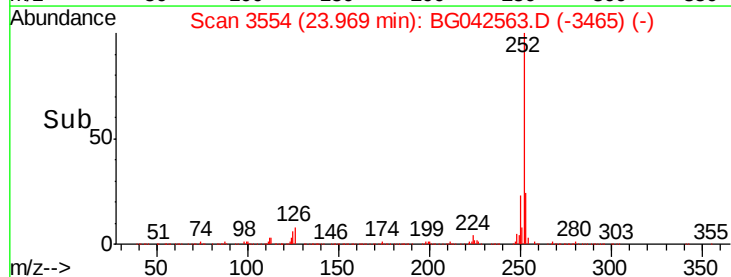
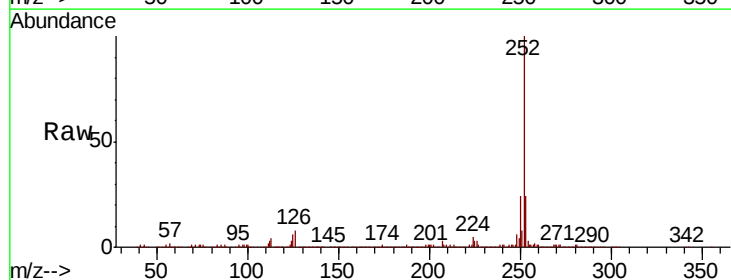
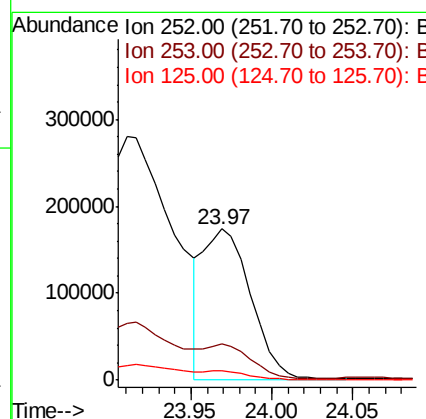
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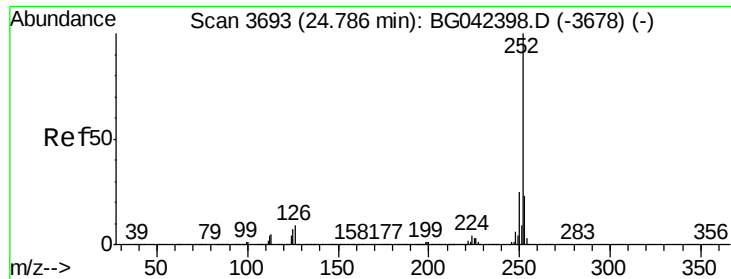
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#89  
Benzo(k)fluoranthene  
Concen: 22.587 ng m  
RT: 23.97 min Scan# 3554  
Delta R.T. -0.01 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 18.6  | 27.8  |
| 125     | 6.3   | 5.8   | 8.6   |





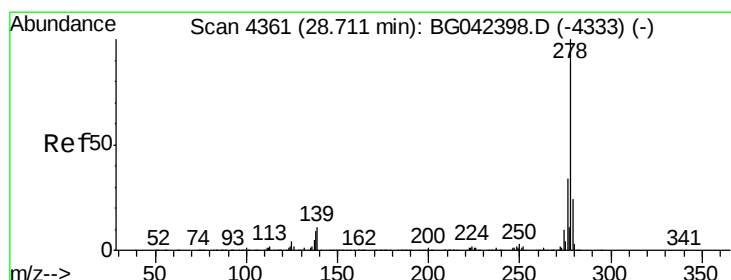
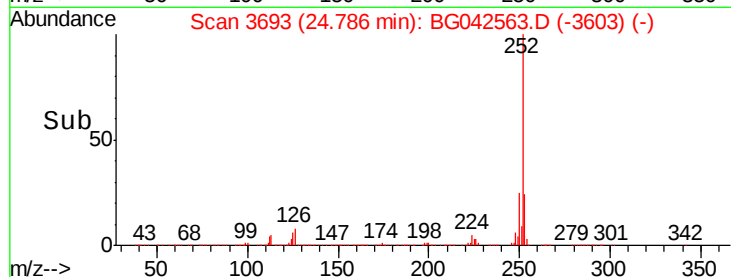
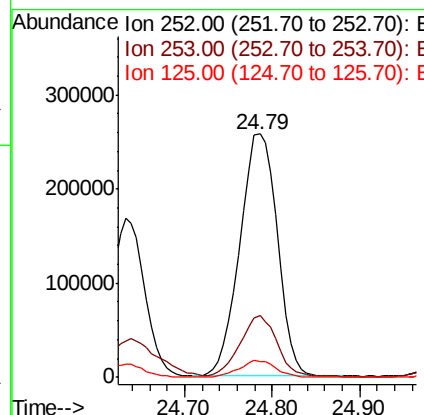
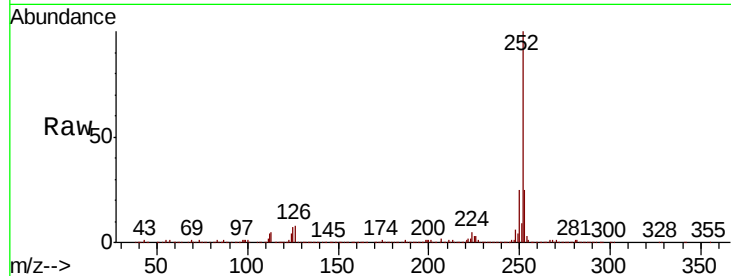
#90  
Benzo(a)pyrene  
Concen: 47.568 ng  
RT: 24.79 min Scan# 3693  
Delta R.T. -0.00 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

Instrument :  
BNA\_G  
ClientSampleId :  
S702-N-1.0-1.5-082119RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 18.4  | 27.6  |
| 125     | 6.5   | 6.0   | 9.0   |

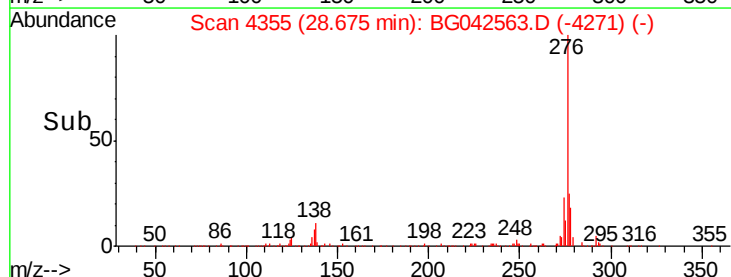
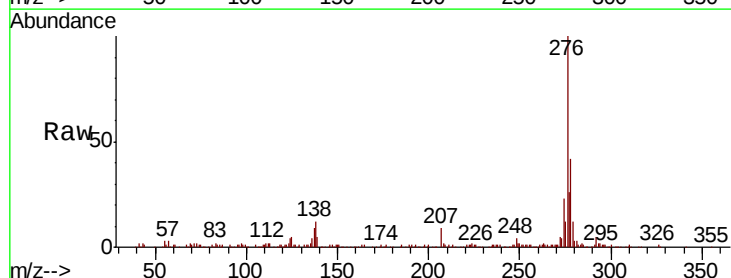
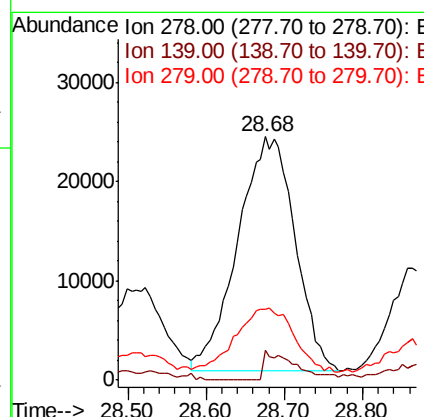
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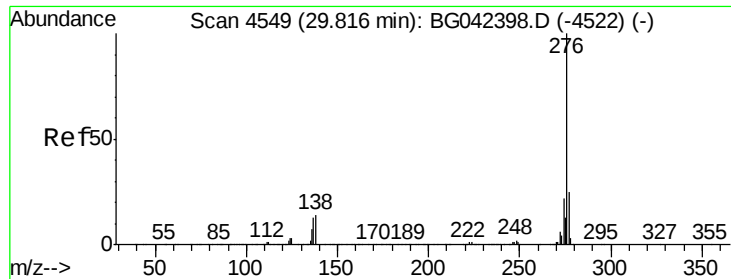
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#91  
Dibenzo(a,h)anthracene  
Concen: 7.490 ng m  
RT: 28.68 min Scan# 4355  
Delta R.T. -0.04 min  
Lab File: BG042563.D  
Acq: 29 Aug 2019 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 12.2  | 8.8   | 13.2  |
| 279     | 29.3  | 19.1  | 28.7# |





#92  
 Benzo(a,h,i)perylene  
 Concen: 28.263 ng  
 RT: 29.81 min Scan# 4548  
 Delta R.T. -0.01 min  
 Lab File: BG042563.D  
 Acq: 29 Aug 2019 13:42

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S702-N-1.0-1.5-082119RE

| Tot Ion | Ion | Ratio | Resp | Lower | Upper |
|---------|-----|-------|------|-------|-------|
| 451200  | 276 | 100   |      |       |       |
|         | 277 | 24.2  |      | 19.8  | 29.8  |
|         | 138 | 13.0  |      | 11.4  | 17.0  |

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