

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121317\  
 Data File : BG031532.D  
 Acq On : 13 Dec 2017 17:51  
 Operator : SJ/JU  
 Sample : I6786-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 QNWP8-MW26S-GW

Manual Integrations  
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Quant Time: Dec 13 18:37:47 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG121117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 11 17:25:55 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 50422    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.92 | 136  | 262523   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.73 | 164  | 188979   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.47 | 188  | 453839   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.74 | 240  | 483930   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 25.03 | 264  | 479581   | 20.00 | ng    | 0.00     |

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## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.67  | 112 | 131535  | 46.24 | ng | 0.00 |
| 7) Phenol-d6             | 7.28  | 99  | 128588  | 32.56 | ng | 0.01 |
| 23) Nitrobenzene-d5      | 9.28  | 82  | 299160  | 70.24 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.22 | 330 | 171097  | 77.28 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 13.35 | 172 | 926969  | 72.00 | ng | 0.00 |
| 78) Terphenyl-d14        | 20.07 | 244 | 1473744 | 69.29 | ng | 0.00 |

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## Target Compounds

|                         |       |     |         |         |    | Qvalue |
|-------------------------|-------|-----|---------|---------|----|--------|
| 2) 1,4-Dioxane          | 3.51  | 88  | 7377    | 5.435   | ng | # 85   |
| 3) Pyridine             | 3.93  | 79  | 23132   | 6.473   | ng | # 84   |
| 6) Aniline              | 7.42  | 93  | 52402   | 10.076  | ng | 95     |
| 10) Phenol              | 7.31  | 94  | 54521   | 13.440  | ng | 92     |
| 17) 2-Methylphenol      | 8.56  | 107 | 55874   | 20.205  | ng | 97     |
| 20) 3+4-Methylphenols   | 8.89  | 107 | 145347  | 35.283  | ng | 97     |
| 22) Acetophenone        | 8.93  | 105 | 26105   | 4.145   | ng | # 88   |
| 27) 2,4-Dimethylphenol  | 10.09 | 122 | 323273m | 98.606  | ng |        |
| 31) Naphthalene         | 10.97 | 128 | 2546205 | 197.426 | ng | # 95   |
| 37) 2-Methylnaphthalene | 12.57 | 142 | 29274   | 2.932   | ng | 97     |
| 51) Acenaphthene        | 14.79 | 154 | 55891   | 4.835   | ng | 94     |
| 72) Carbazole           | 17.88 | 167 | 481800  | 22.712  | ng | 98     |

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

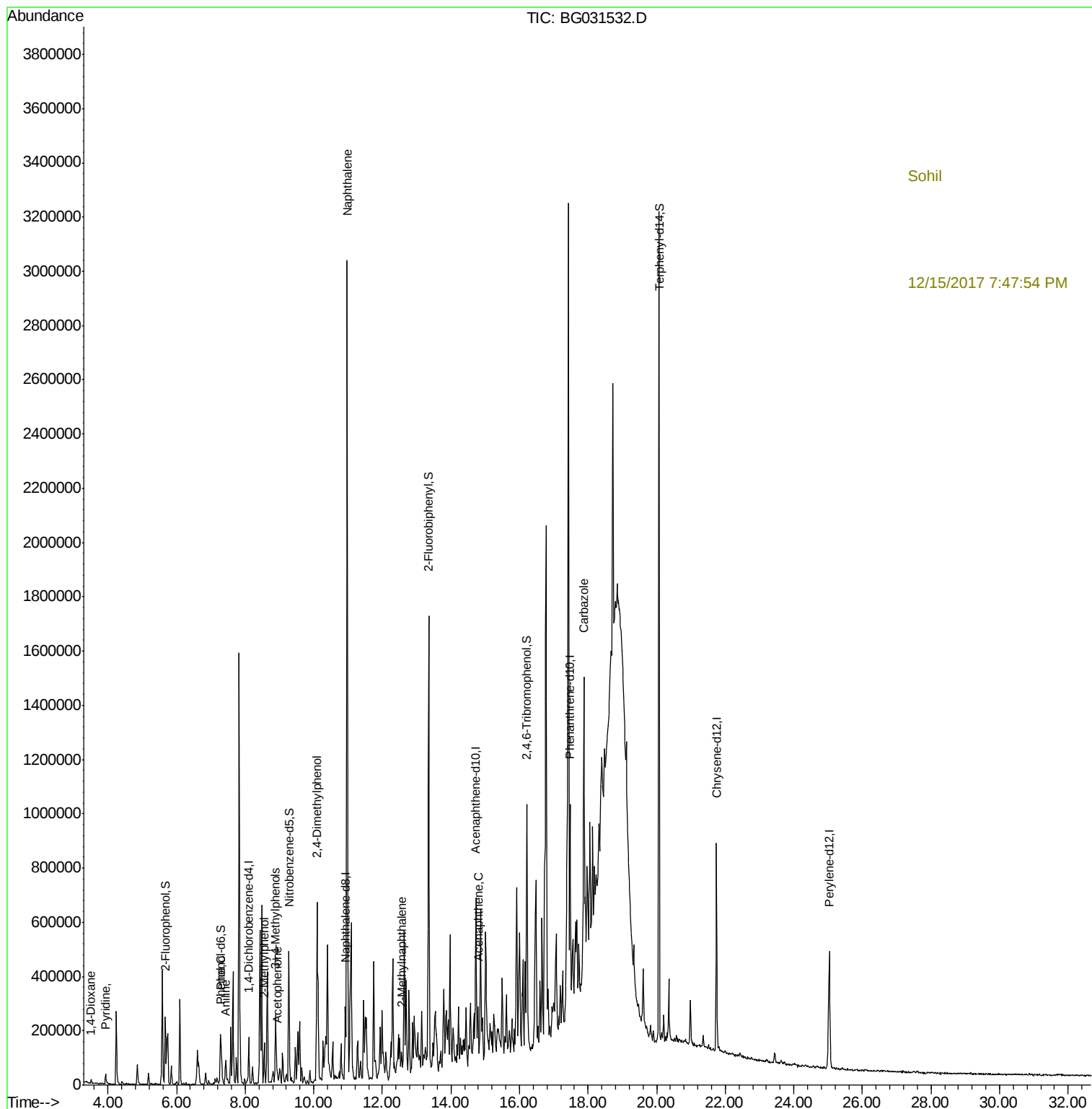
Data Path : Z:\HPCHEM1\BNA G\DATA\BG121317\  
Data File : BG031532.D  
Acq On : 13 Dec 2017 17:51  
Operator : SJ/JU  
Sample : I6786-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
QNWP8-MW26S-GW

Manual Integrations  
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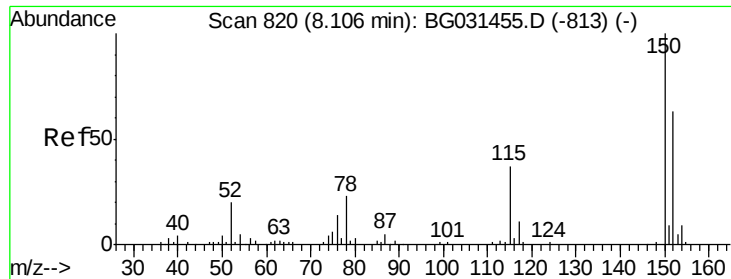
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Quant Time: Dec 13 18:37:47 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG121117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 11 17:25:55 2017  
Response via : Initial Calibration



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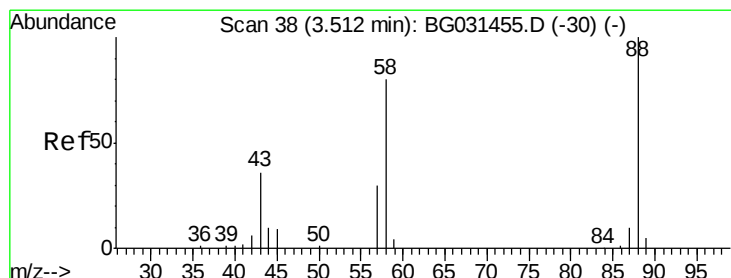
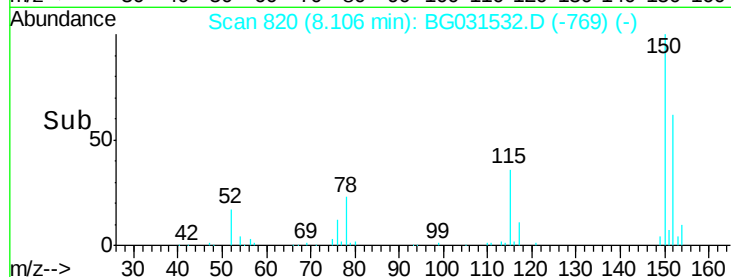
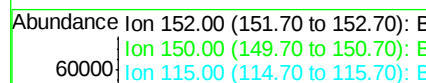
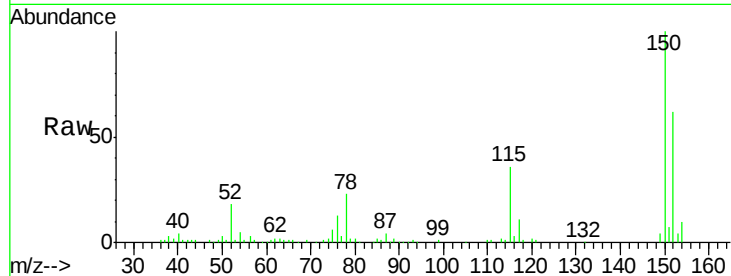
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.11 min Scan# 820  
 Delta R.T. 0.00 min  
 Lab File: BG031532.D  
 Acq: 13 Dec 2017 17:51

Instrument :  
 BNA\_G  
 ClientSampleId :  
 QNWP8-MW26S-GW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.5 | 126.6 | 189.8 |
| 115     | 58.6  | 53.0  | 79.4  |

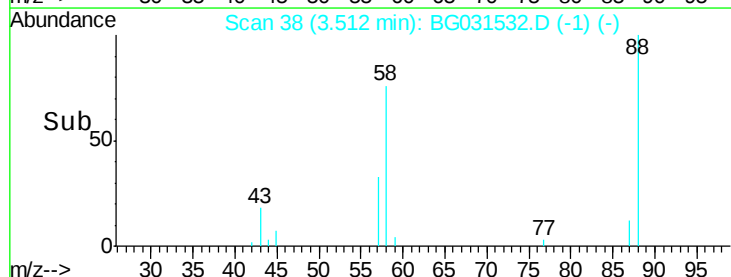
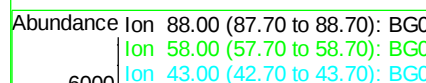
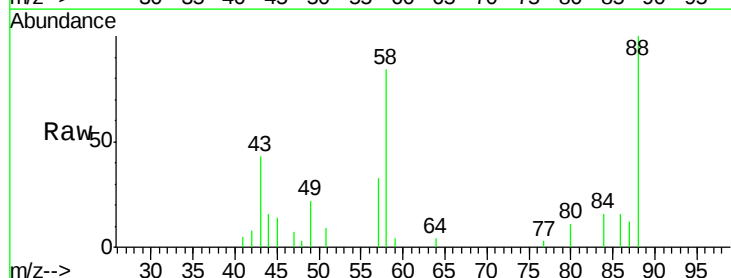
Manual Integrations  
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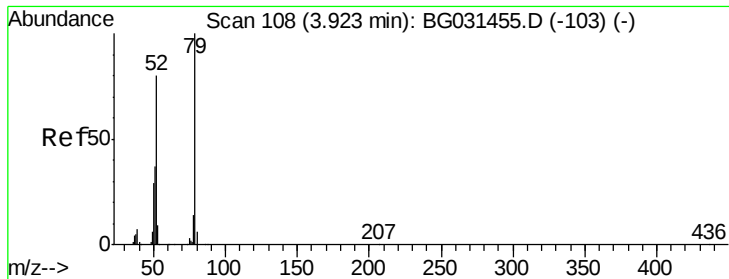
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#2  
 1,4-Dioxane  
 Concen: 5.435 ng  
 RT: 3.51 min Scan# 38  
 Delta R.T. 0.00 min  
 Lab File: BG031532.D  
 Acq: 13 Dec 2017 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 87.0  | 79.6  | 119.4 |
| 43      | 46.1  | 27.4  | 41.0  |





#3

Pvridine

Concen: 6.473 ng

RT: 3.93 min Scan# 109

Delta R.T. 0.01 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

Instrument :

BNA\_G

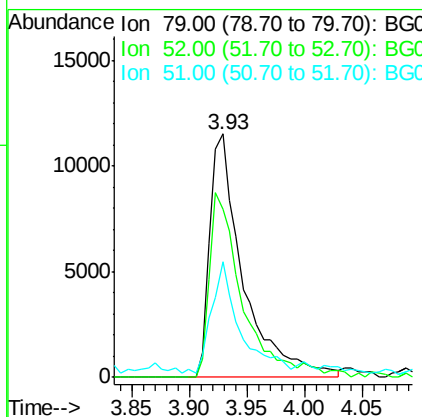
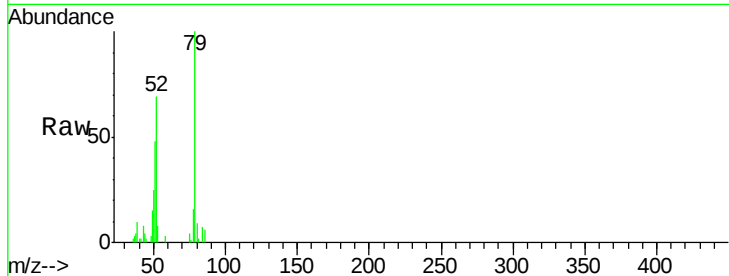
ClientSampleId :

QNWP8-MW26S-GW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 79    | Resp: | 23132  |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 52        | 69.0  | 69.9  | 104.9# |
| 51        | 47.6  | 34.0  | 51.0   |

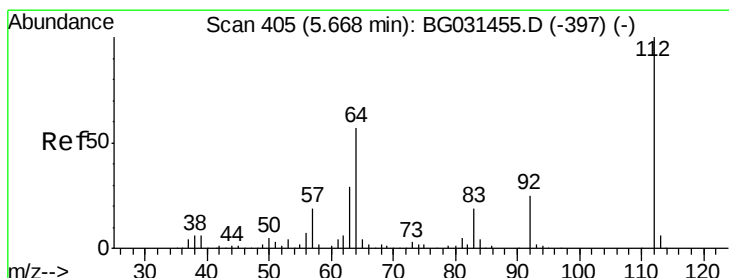
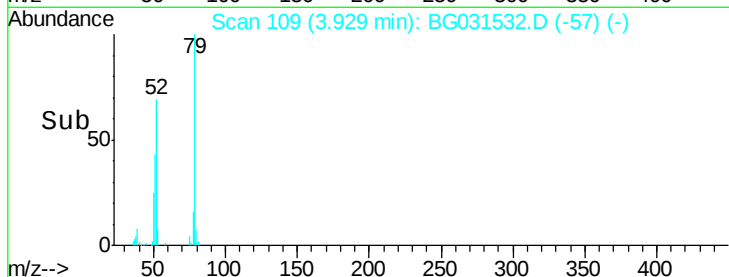
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#5

2-Fluorophenol

Concen: 46.239 ng

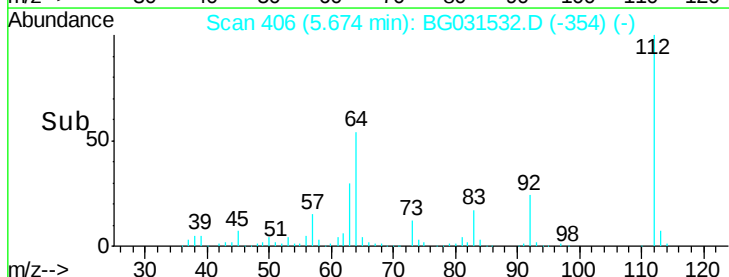
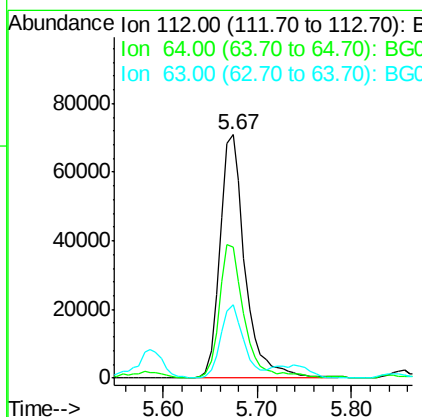
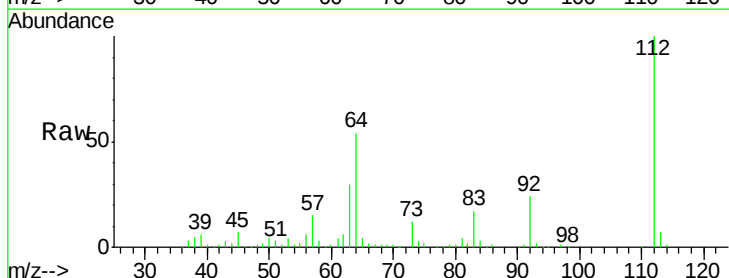
RT: 5.67 min Scan# 406

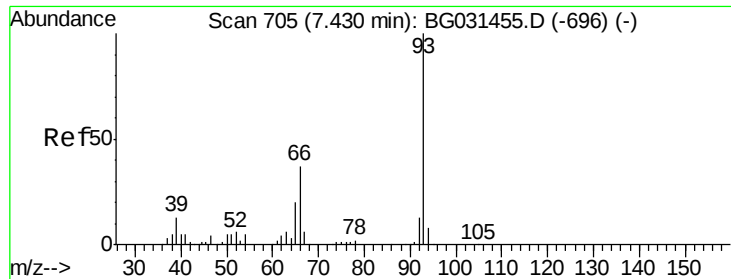
Delta R.T. 0.01 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 131535 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 54.0  | 56.3  | 84.5#  |
| 63        | 29.9  | 30.1  | 45.1#  |





#6

Aniline

Concen: 10.076 ng

RT: 7.42 min Scan# 704

Delta R.T. -0.01 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

Instrument :

BNA\_G

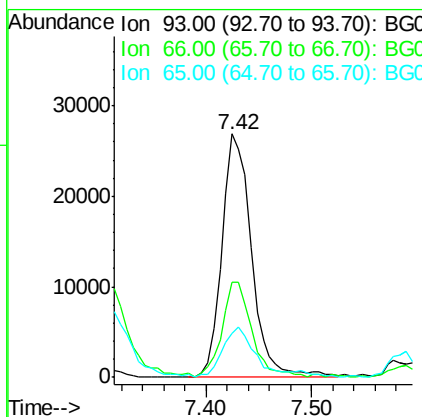
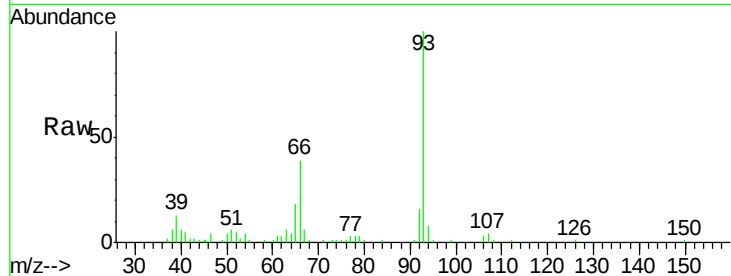
ClientSampleId :

QNWP8-MW26S-GW

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 93    | Resp: | 52402 |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 66        | 38.9  | 33.7  | 50.5  |
| 65        | 17.9  | 16.1  | 24.1  |

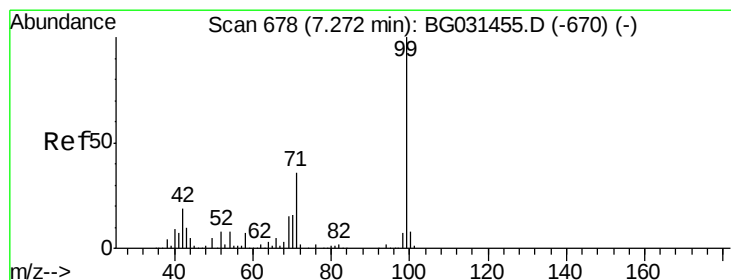
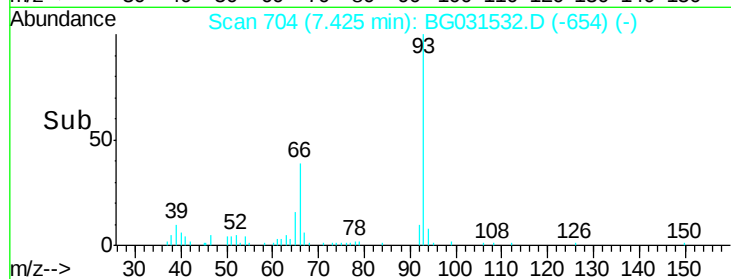
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#7

Phenol-d6

Concen: 32.562 ng

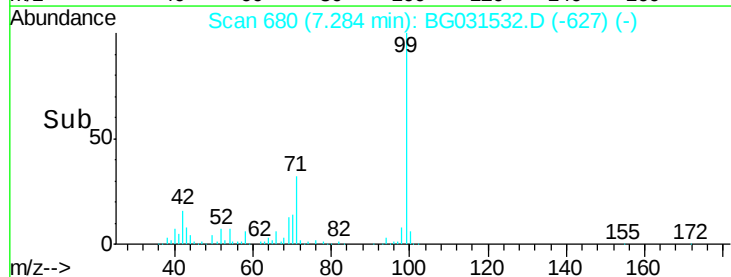
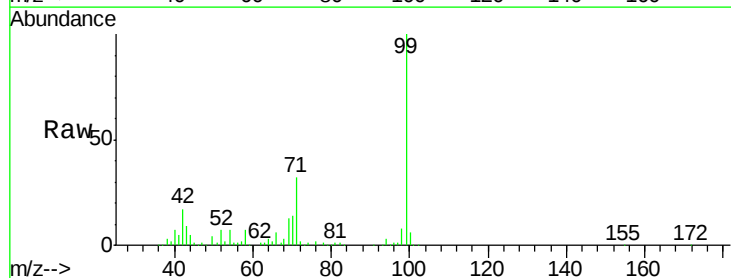
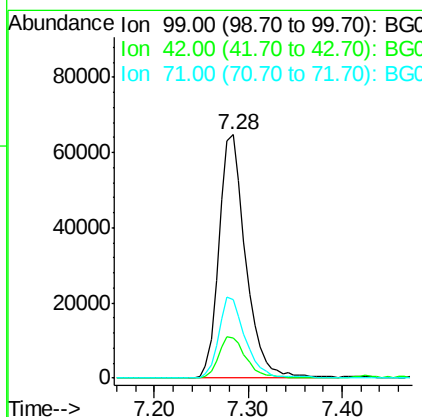
RT: 7.28 min Scan# 680

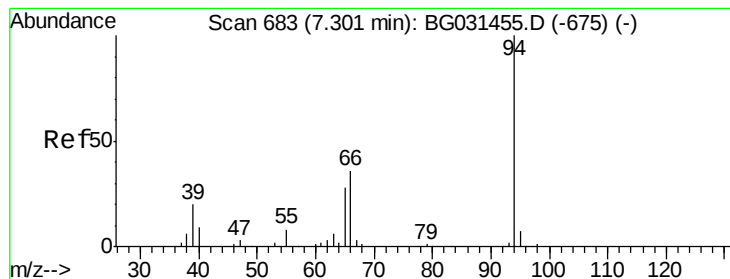
Delta R.T. 0.01 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 128588 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.6  | 14.1  | 21.1   |
| 71        | 32.3  | 26.1  | 39.1   |





#10

Phenol

Concen: 13.440 ng

RT: 7.31 min Scan# 684

Delta R.T. 0.01 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

Instrument :

BNA\_G

ClientSampleId :

QNWP8-MW26S-GW

Tot Ion: 94 Resp: 54521

Ion Ratio Lower Upper

94 100

65 28.3 11.9 51.9

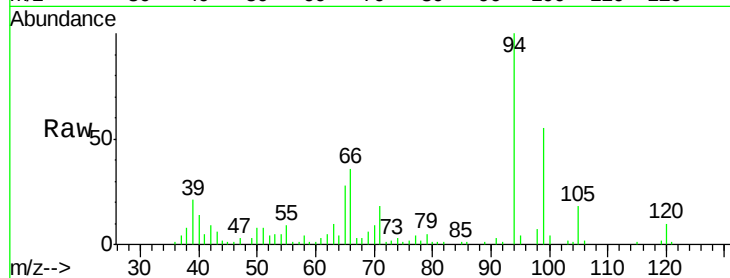
66 36.4 22.2 62.2

Manual Integrations

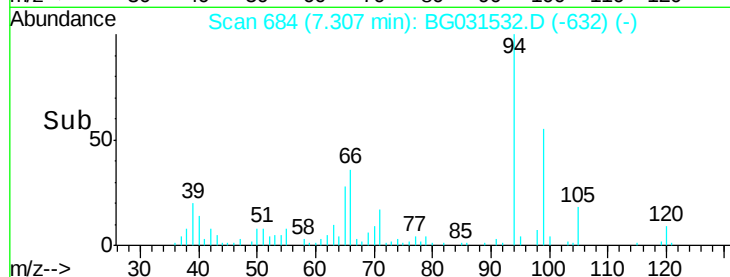
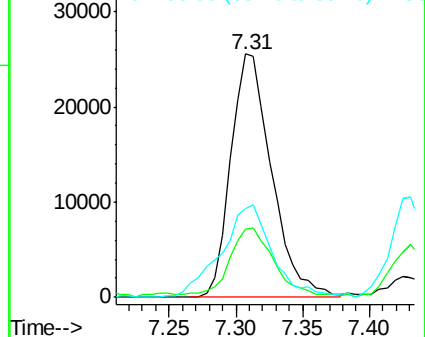
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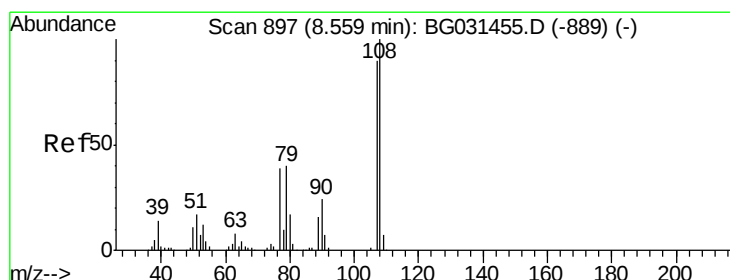


Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC



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#17

2-Methylphenol

Concen: 20.205 ng

RT: 8.56 min Scan# 897

Delta R.T. 0.00 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

Tgt Ion: 107 Resp: 55874

Ion Ratio Lower Upper

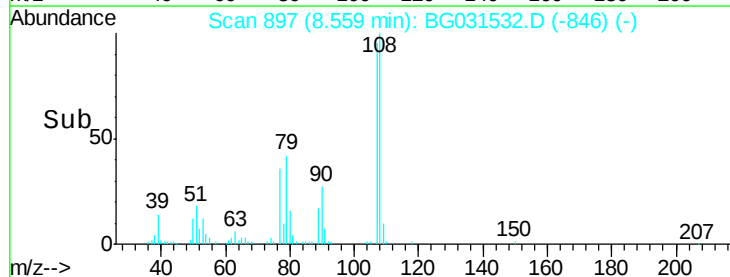
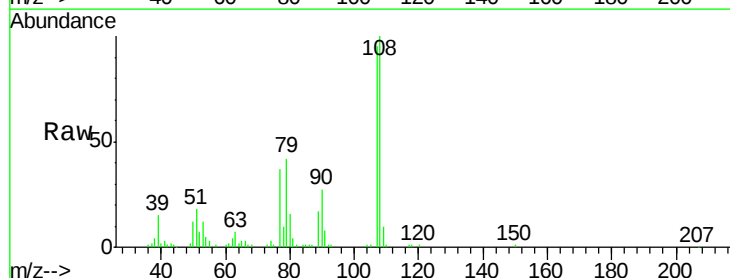
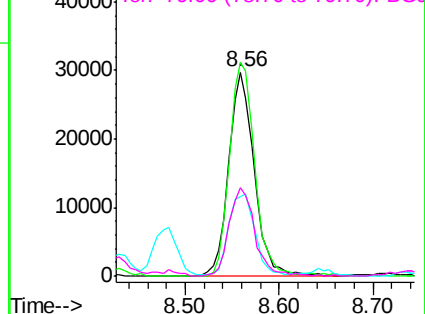
107 100

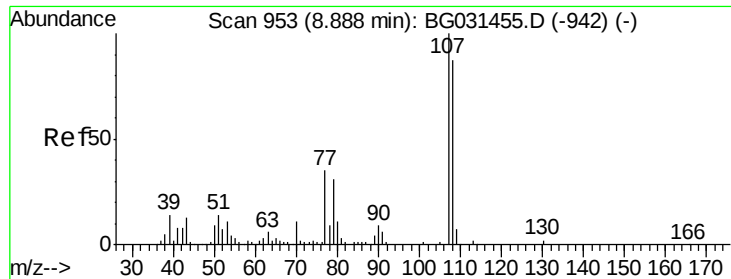
108 104.7 83.9 125.9

77 38.7 37.2 55.8

79 43.5 36.2 54.2

Abundance Ion 107.00 (106.70 to 107.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC  
Ion 79.00 (78.70 to 79.70): BGC





#20

3+4-Methylphenols

Concen: 35.283 ng

RT: 8.89 min Scan# 953

Delta R.T. 0.00 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

Instrument :

BNA\_G

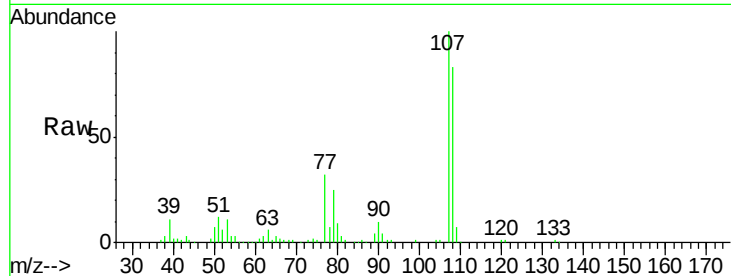
ClientSampleId :

QNWP8-MW26S-GW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 107   | Resp: | 145347 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 108       | 83.1  | 61.6  | 101.6  |
| 77        | 31.5  | 13.9  | 53.9   |
| 79        | 24.8  | 8.8   | 48.8   |

Manual Integrations  
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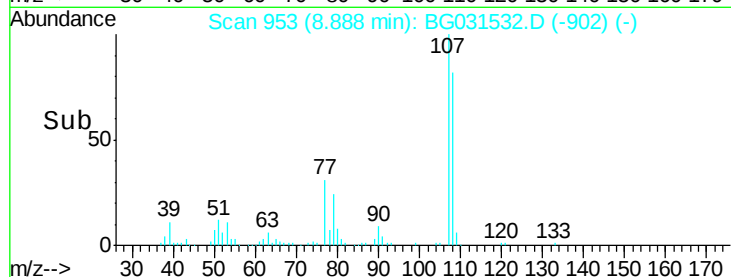
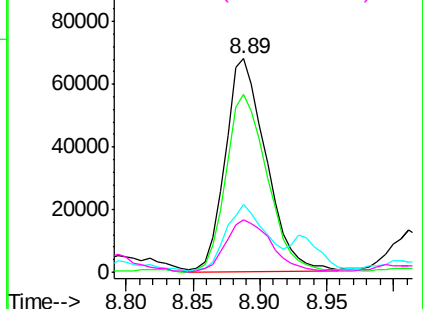
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

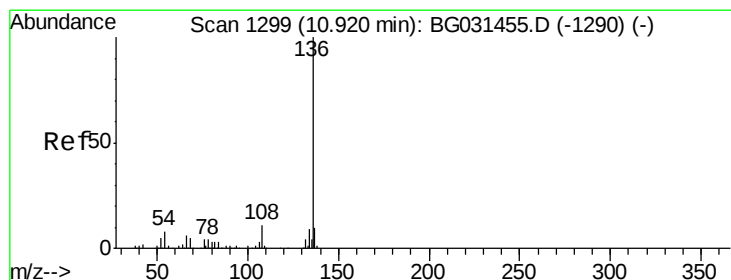
Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC



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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.92 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 262523 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.7  | 9.2   | 13.8   |
| 54        | 7.5   | 10.3  | 15.5#  |
| 68        | 5.3   | 4.5   | 6.7    |

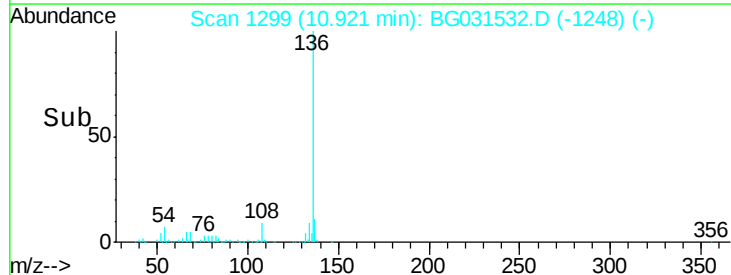
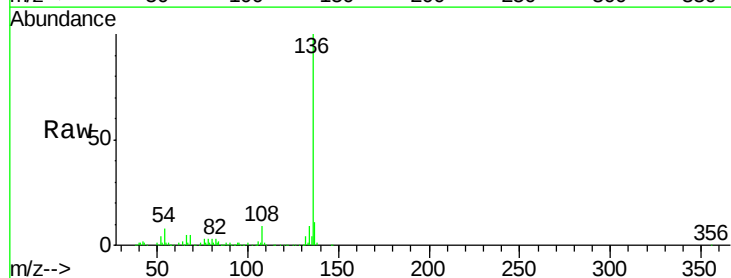
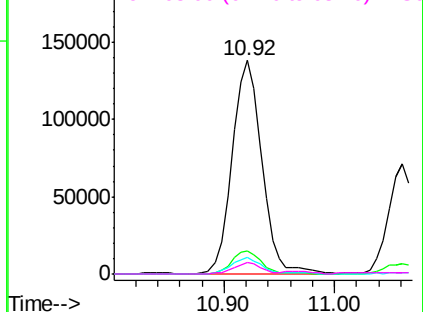
Abundance

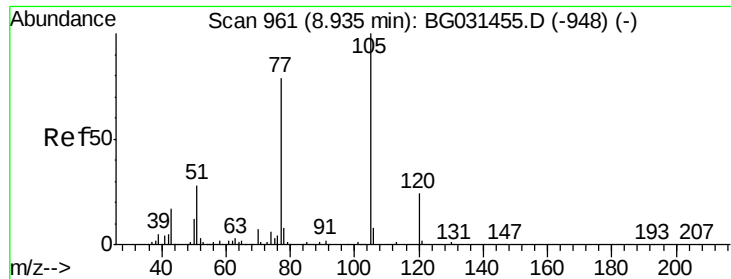
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

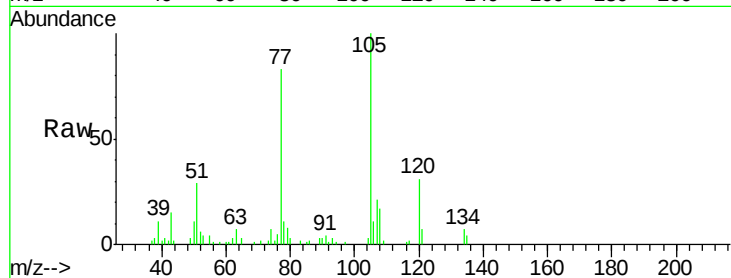
Ion 68.00 (67.70 to 68.70): BGC





#22  
Acetophenone  
Concen: 4.145 ng  
RT: 8.93 min Scan# 961  
Delta R.T. 0.00 min  
Lab File: BG031532.D  
Acq: 13 Dec 2017 17:51

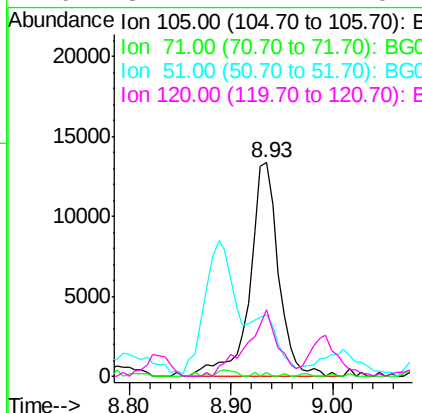
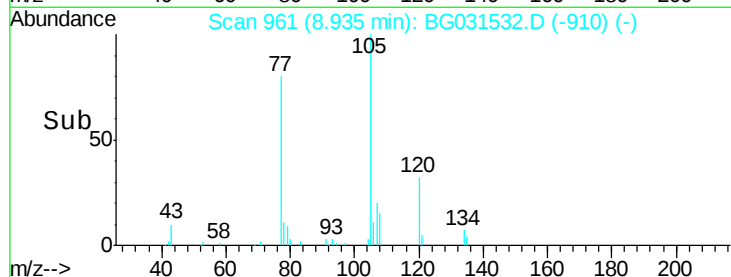
Instrument :  
BNA\_G  
ClientSampleId :  
QNWP8-MW26S-GW



| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 71      | 2.0   | 3.0   | 4.4#  |
| 51      | 28.6  | 26.1  | 39.1  |
| 120     | 31.1  | 17.4  | 26.2# |

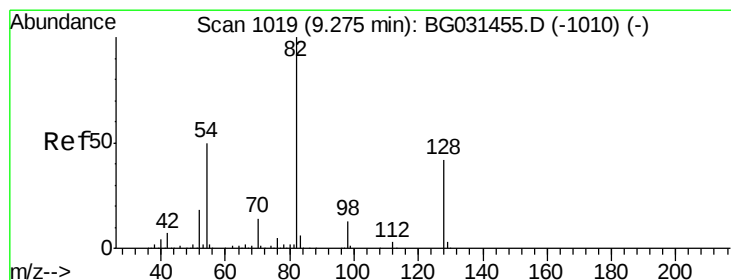
Manual Integrations  
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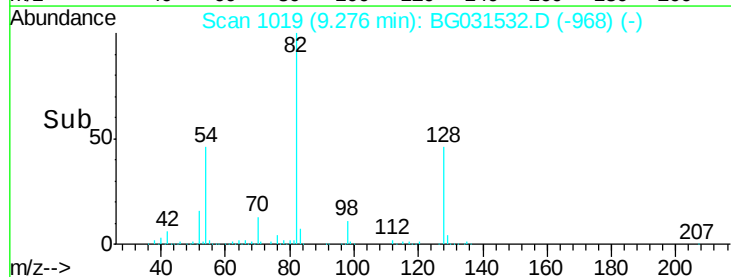
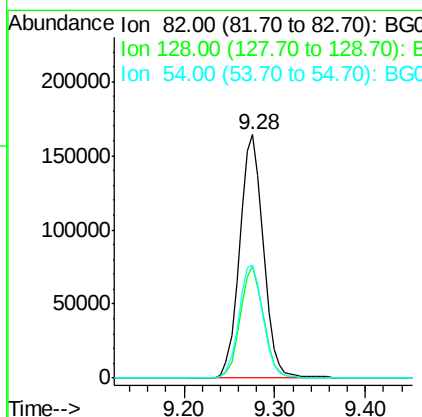
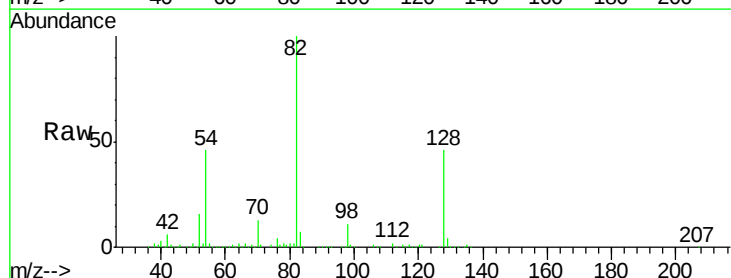
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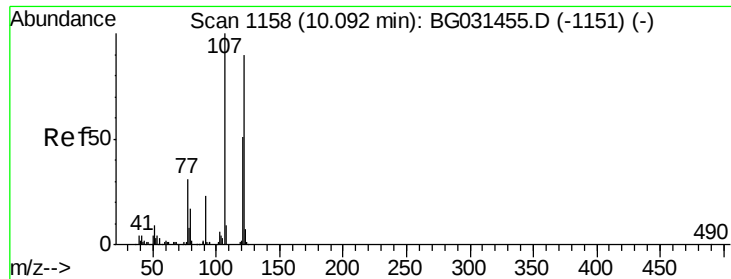
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#23  
Nitrobenzene-d5  
Concen: 70.239 ng  
RT: 9.28 min Scan# 1019  
Delta R.T. 0.00 min  
Lab File: BG031532.D  
Acq: 13 Dec 2017 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.7  | 29.7  | 44.5# |
| 54      | 46.5  | 43.1  | 64.7  |





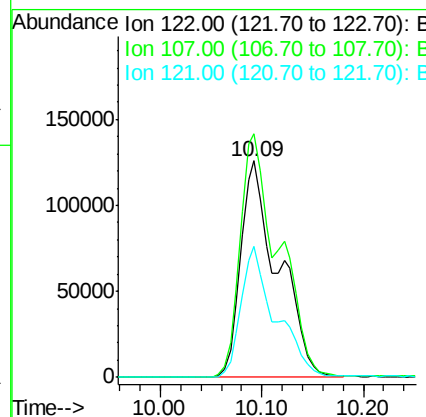
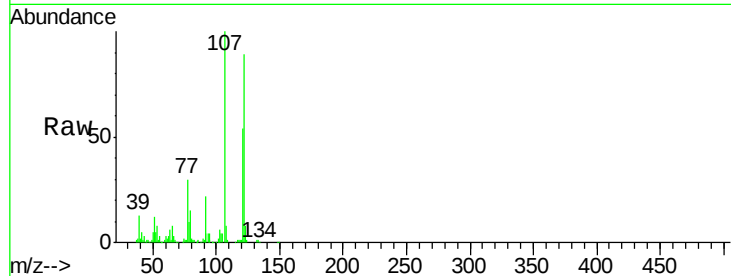
#27  
2,4-Dimethylphenol  
Concen: 98.606 ng/ml  
RT: 10.09 min Scan# 1158  
Delta R.T. 0.00 min  
Lab File: BG031532.D  
Acq: 13 Dec 2017 17:51

Instrument :  
BNA\_G  
ClientSampleId :  
QNWP8-MW26S-GW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 112.5 | 100.2 | 150.2 |
| 121     | 60.7  | 44.4  | 66.6  |

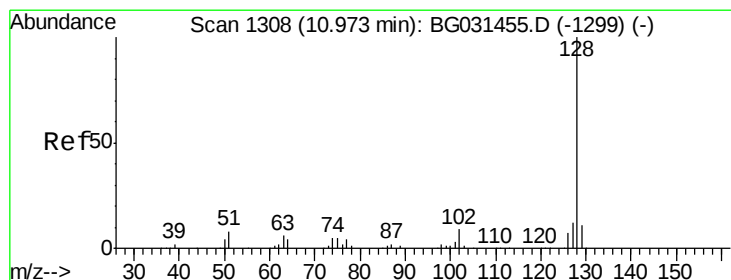
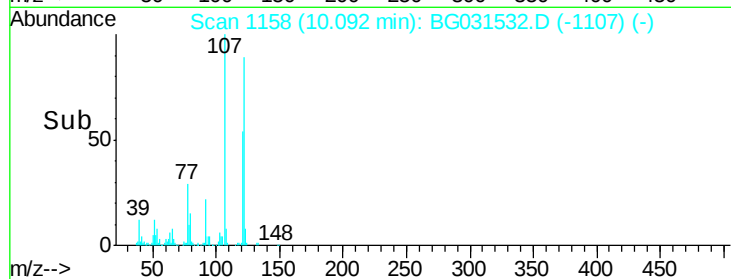
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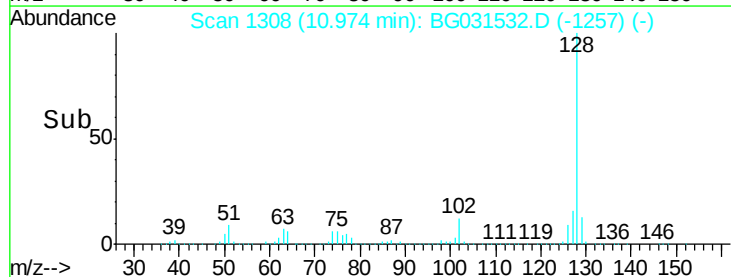
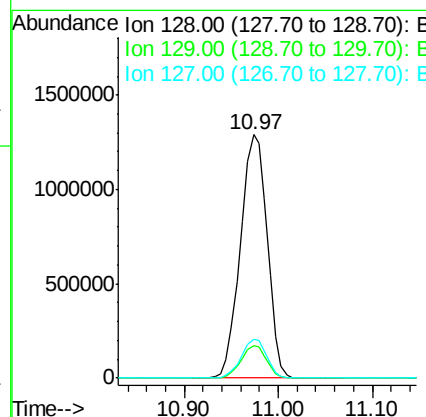
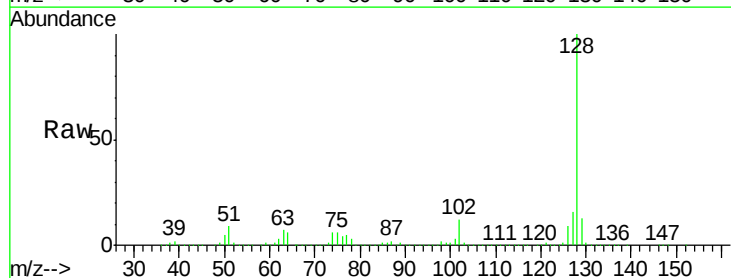
Sohil

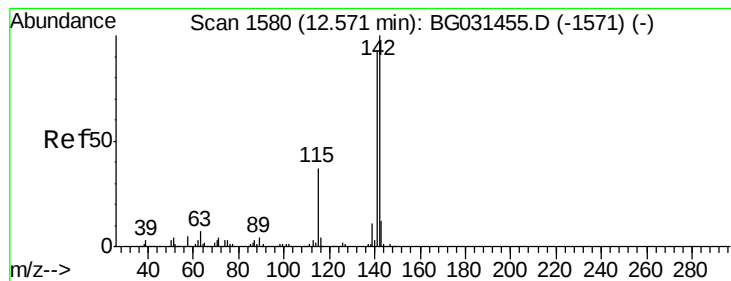
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#31  
Naphthalene  
Concen: 197.426 ng  
RT: 10.97 min Scan# 1308  
Delta R.T. 0.00 min  
Lab File: BG031532.D  
Acq: 13 Dec 2017 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.1  | 8.6   | 12.8# |
| 127     | 16.2  | 11.6  | 17.4  |





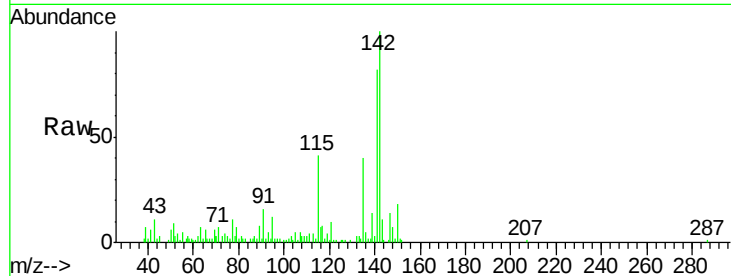
#37  
2-Methylnaphthalene  
Concen: 2.932 ng  
RT: 12.57 min Scan# 1579  
Delta R.T. -0.01 min  
Lab File: BG031532.D  
Acq: 13 Dec 2017 17:51

Instrument :  
BNA\_G  
ClientSampleId :  
QNWP8-MW26S-GW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 81.6  | 67.1  | 100.7 |
| 115     | 40.8  | 30.7  | 46.1  |

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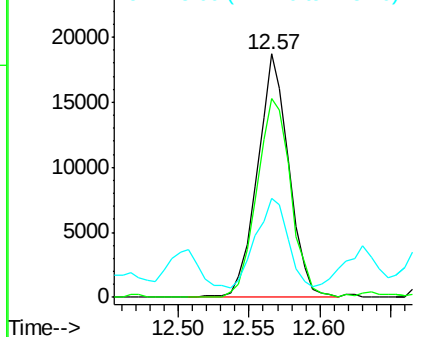


Abundance

Ion 142.00 (141.70 to 142.70): E

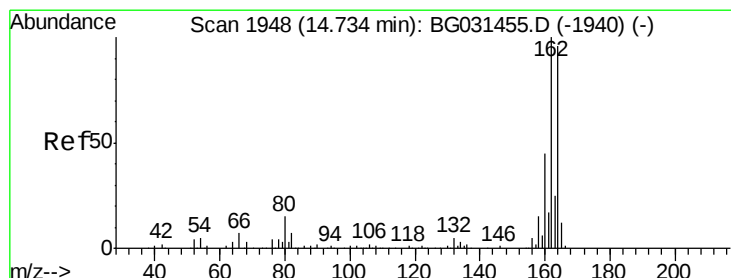
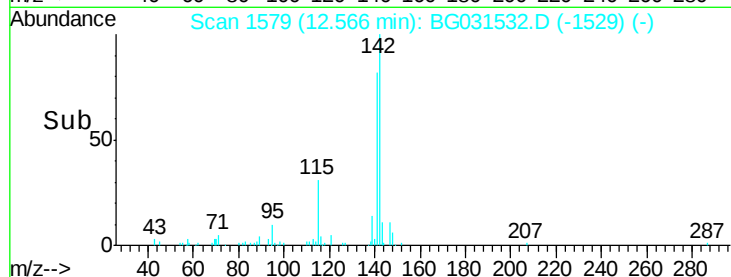
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.73 min Scan# 1947  
Delta R.T. -0.01 min  
Lab File: BG031532.D  
Acq: 13 Dec 2017 17:51

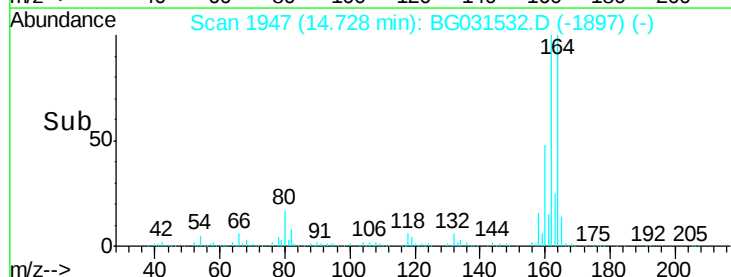
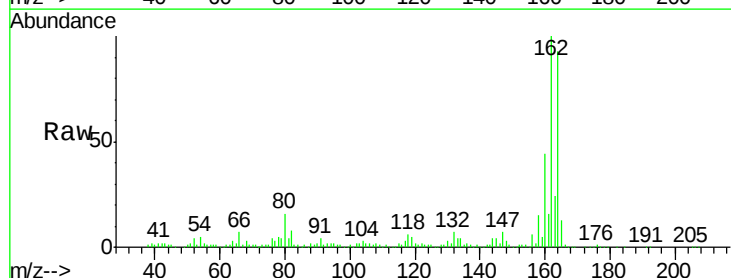
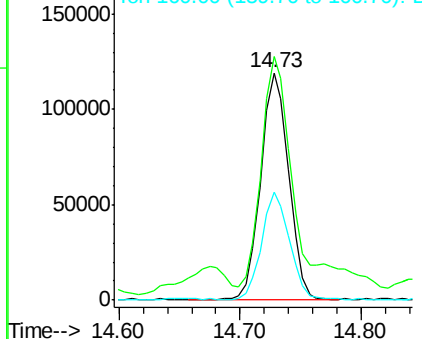
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 107.1 | 78.8  | 118.2 |
| 160     | 47.6  | 35.4  | 53.0  |

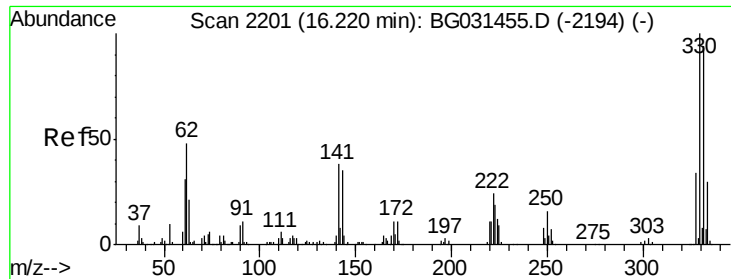
Abundance

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





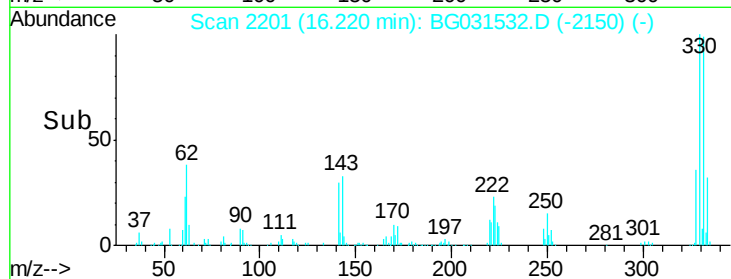
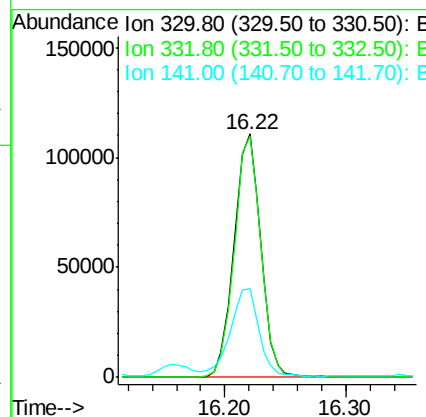
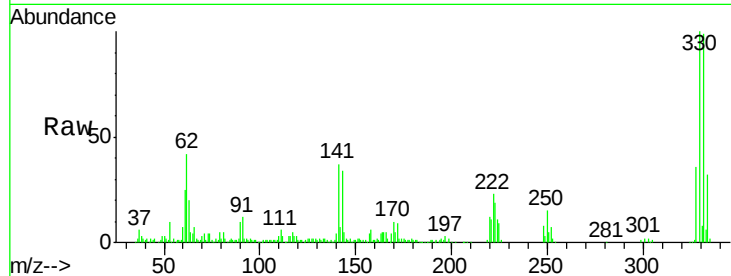
#41  
 2,4,6-Tribromophenol  
 Concen: 77.281 ng  
 RT: 16.22 min Scan# 2201  
 Delta R.T. 0.00 min  
 Lab File: BG031532.D  
 Acq: 13 Dec 2017 17:51

Instrument :  
 BNA\_G  
 ClientSampleId :  
 QNWP8-MW26S-GW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.5  | 77.0  | 115.6 |
| 141     | 38.9  | 25.2  | 37.8  |

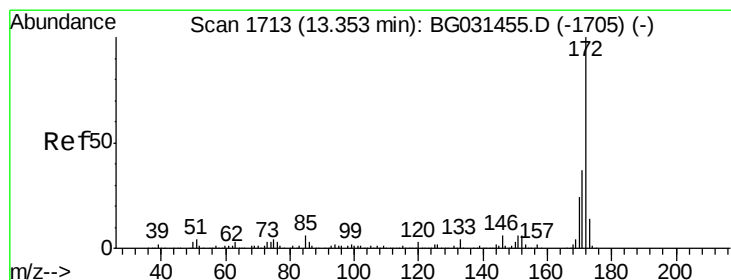
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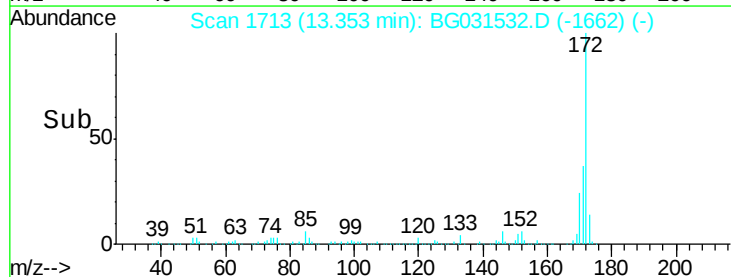
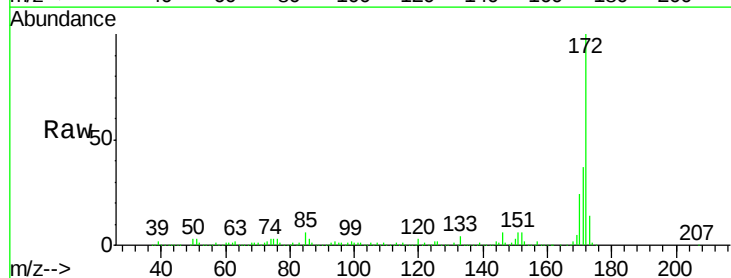
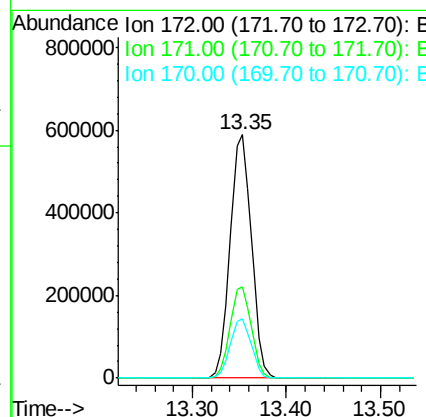
Sohil

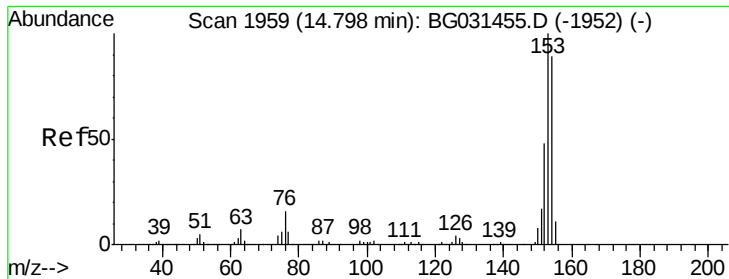
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#44  
 2-Fluorobiphenyl  
 Concen: 72.001 ng  
 RT: 13.35 min Scan# 1713  
 Delta R.T. 0.00 min  
 Lab File: BG031532.D  
 Acq: 13 Dec 2017 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 30.0  | 45.0  |
| 170     | 24.4  | 19.5  | 29.3  |





#51

Acenaphthene

Concen: 4.835 ng

RT: 14.79 min Scan# 1958

Delta R.T. -0.01 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

Instrument :

BNA\_G

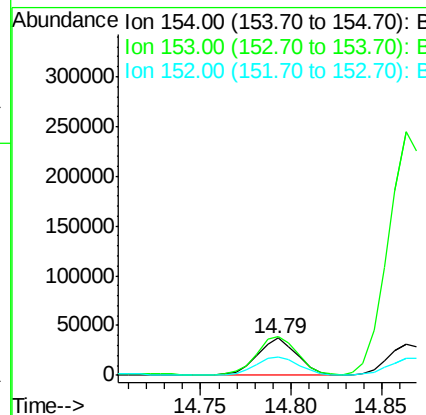
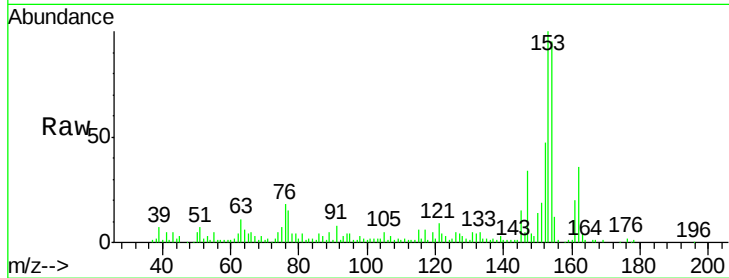
ClientSampleId :

QNWP8-MW26S-GW

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 55891 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 105.5 | 90.4  | 135.6 |
| 152       | 49.6  | 41.6  | 62.4  |

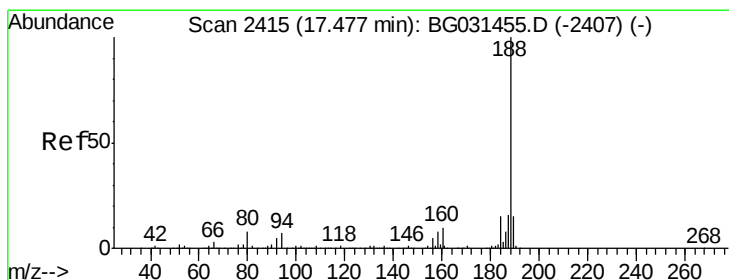
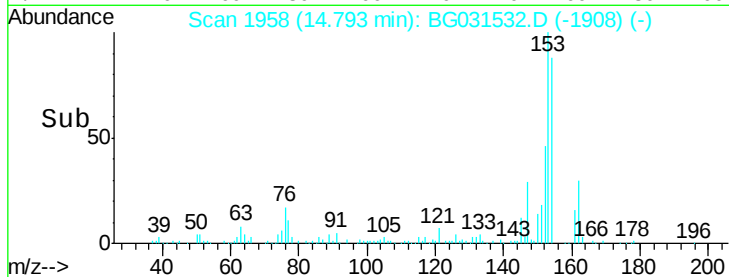
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#63

Phenanthrene-d10

Concen: 20.000 ng

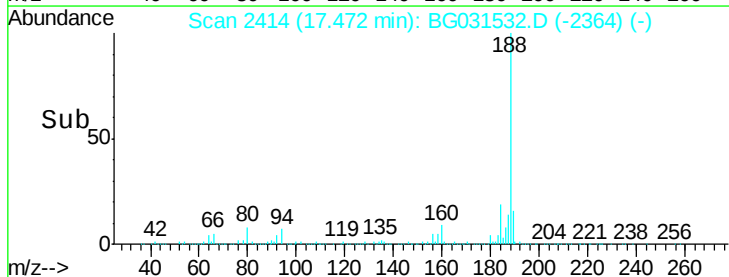
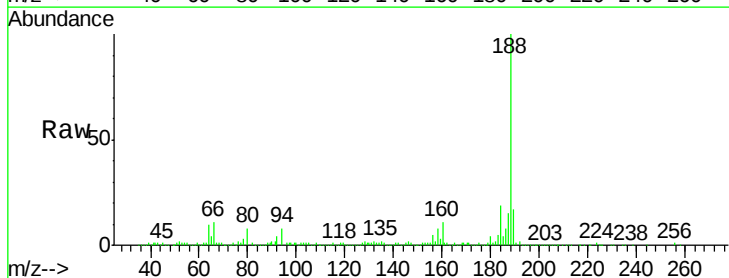
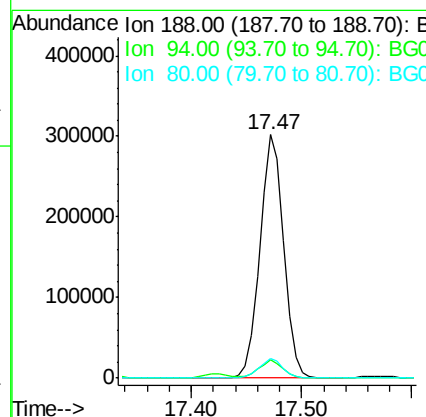
RT: 17.47 min Scan# 2414

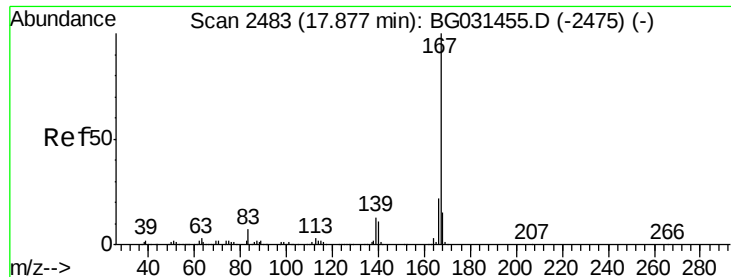
Delta R.T. -0.01 min

Lab File: BG031532.D

Acq: 13 Dec 2017 17:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 453839 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 7.5   | 6.9   | 10.3   |
| 80        | 8.3   | 7.7   | 11.5   |





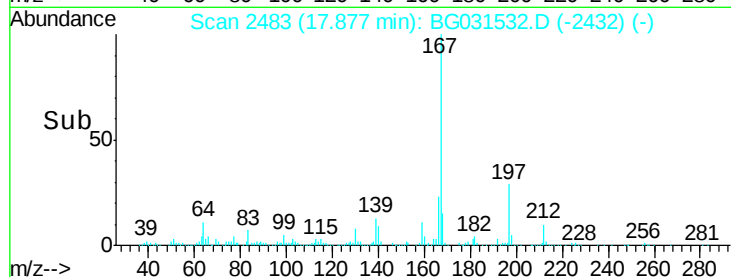
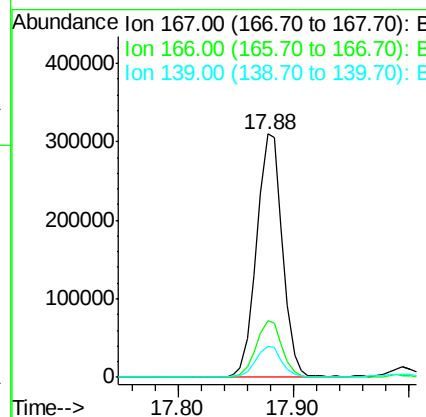
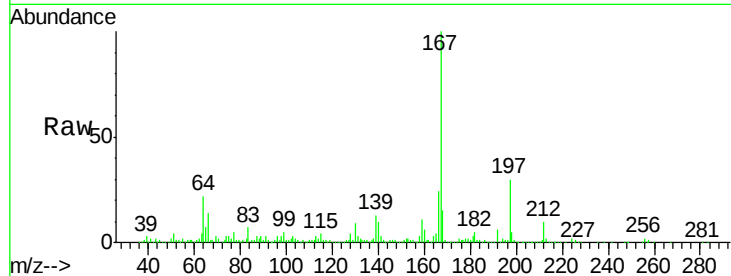
#72  
 Carbazole  
 Concen: 22.712 ng  
 RT: 17.88 min Scan# 2483  
 Delta R.T. 0.00 min  
 Lab File: BG031532.D  
 Acq: 13 Dec 2017 17:51

Instrument :  
 BNA\_G  
 ClientSampleId :  
 QNWP8-MW26S-GW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 167   | Resp: | 481800 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 23.5  | 18.2  | 27.4   |
| 139       | 12.9  | 9.4   | 14.2   |

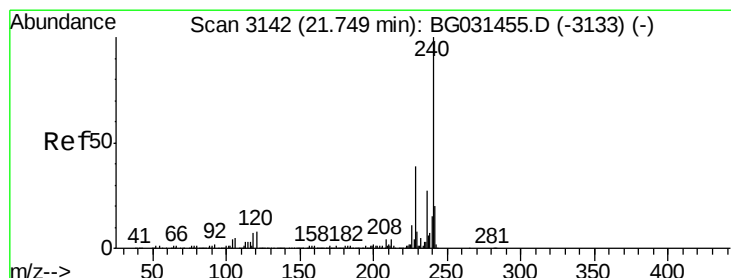
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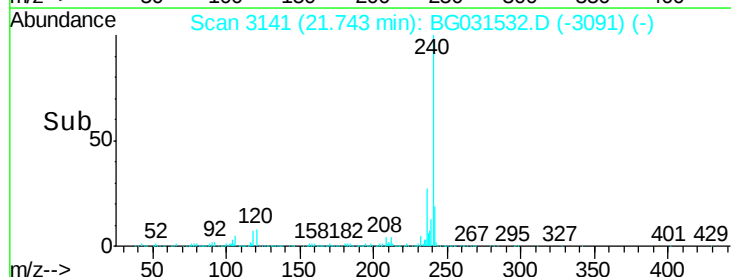
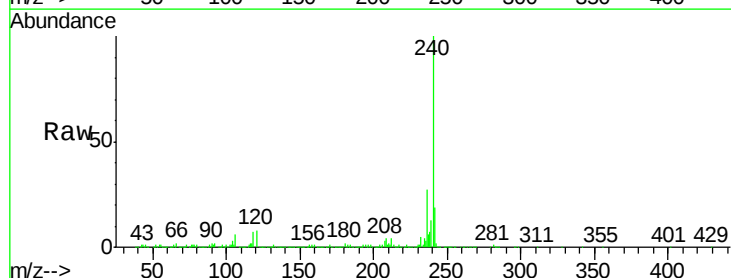
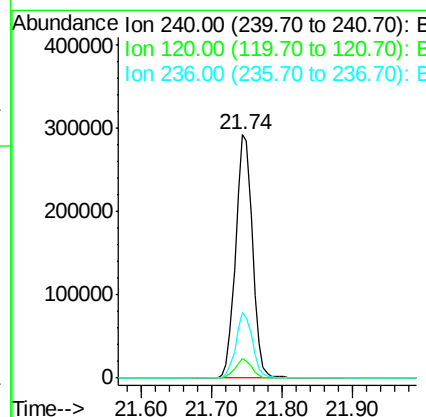
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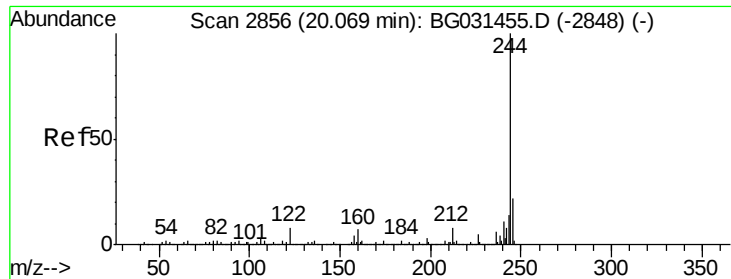
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#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.74 min Scan# 3141  
 Delta R.T. -0.01 min  
 Lab File: BG031532.D  
 Acq: 13 Dec 2017 17:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 483930 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 7.9   | 6.8   | 10.2   |
| 236       | 27.0  | 20.9  | 31.3   |





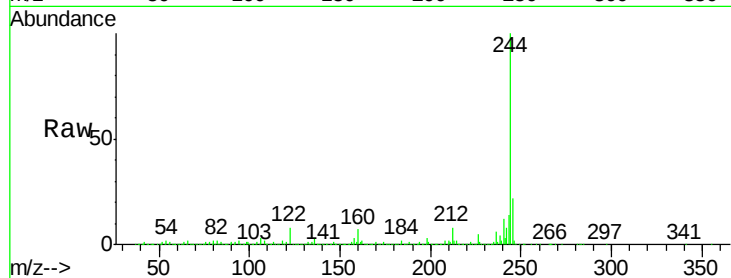
#78  
 Terphenyl-d14  
 Concen: 69.287 ng  
 RT: 20.07 min Scan# 2856  
 Delta R.T. 0.00 min  
 Lab File: BG031532.D  
 Acq: 13 Dec 2017 17:51

Instrument :  
 BNA\_G  
 ClientSampleId :  
 QNWP8-MW26S-GW

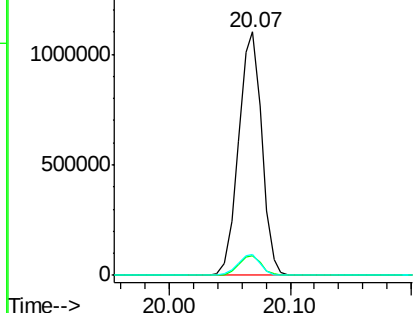
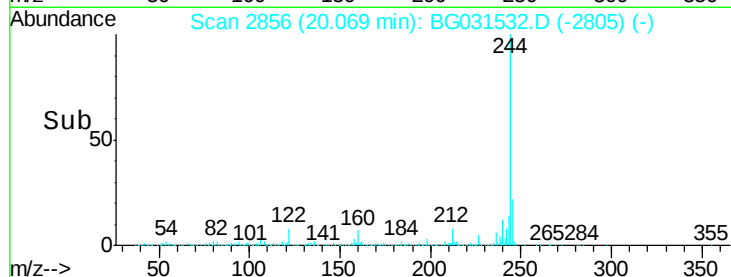
Tot Ion:244 Resp: 1473744  
 Ion Ratio Lower Upper  
 244 100  
 212 8.3 5.8 8.8  
 122 8.4 7.0 10.4

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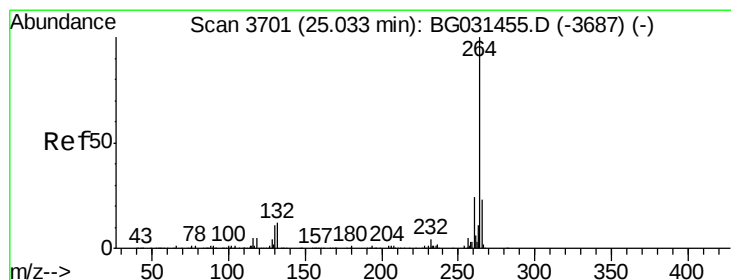


Abundance Ion 244.00 (243.70 to 244.70): E  
 1500000  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



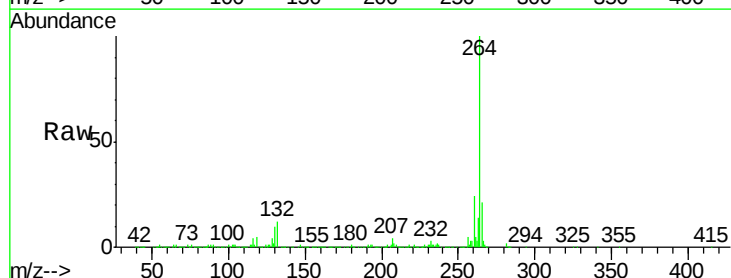
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#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 25.03 min Scan# 3701  
 Delta R.T. 0.00 min  
 Lab File: BG031532.D  
 Acq: 13 Dec 2017 17:51

Tgt Ion:264 Resp: 479581  
 Ion Ratio Lower Upper  
 264 100  
 260 23.9 17.4 26.0  
 265 21.1 17.7 26.5



Abundance Ion 264.00 (263.70 to 264.70): E  
 200000  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

