

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110119\  
 Data File : BG043478.D  
 Acq On : 1 Nov 2019 23:06  
 Operator : JU  
 Sample : K5541-17 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 18-48-(0-2.5)

Manual Integrations  
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 11/4/2019 11:50:02 AM

Quant Time: Nov 02 00:32:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 21 16:37:43 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.02  | 152  | 53462    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.82 | 136  | 196693   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.64 | 164  | 136876   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.39 | 188  | 292571   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12            | 21.65 | 240  | 301241   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12            | 24.86 | 264  | 365337   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.61  | 112  | 42207    | 14.47 | ng    | 0.00     |
| 7) Phenol-d6                | 7.20  | 99   | 58471    | 13.93 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.18  | 82   | 35279    | 9.25  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.14 | 330  | 31864    | 12.23 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.27 | 172  | 90103    | 9.10  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.00 | 244  | 146608   | 9.13  | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 75) Fluoranthene            | 19.44 | 202  | 70933    | 3.632 | ng    | 99       |
| 78) Pyrene                  | 19.80 | 202  | 68803    | 3.690 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.64 | 228  | 45690    | 2.421 | ng    | 97       |
| 83) Chrysene                | 21.70 | 228  | 40499m   | 2.160 | ng    |          |
| 88) Benzo(b)fluoranthene    | 23.85 | 252  | 60173    | 2.908 | ng    | # 82     |
| 90) Benzo(a)pyrene          | 24.70 | 252  | 45146    | 2.285 | ng    | # 88     |

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

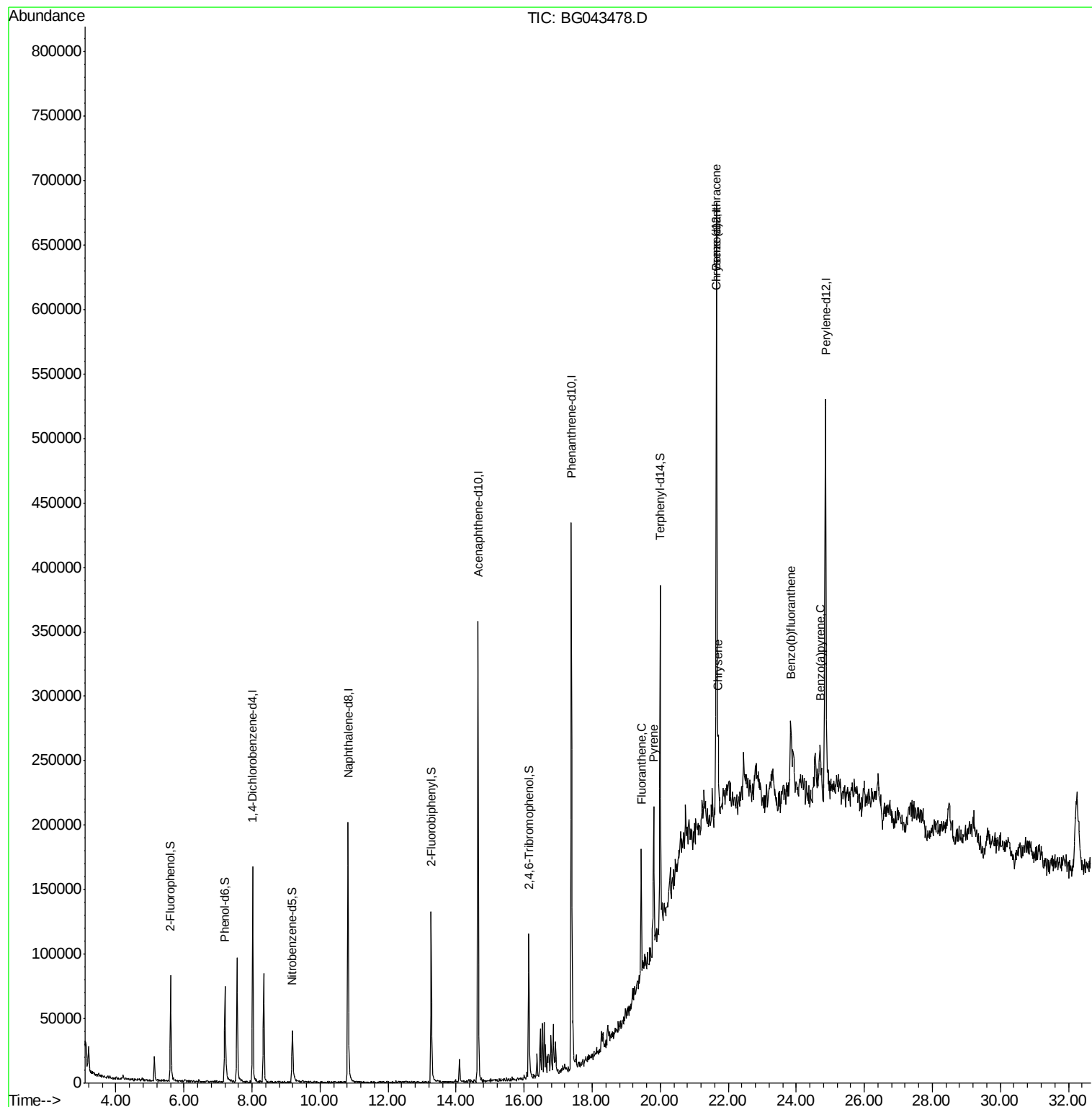
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG110119\  
Data File : BG043478.D  
Acq On : 1 Nov 2019 23:06  
Operator : JU  
Sample : K5541-17 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

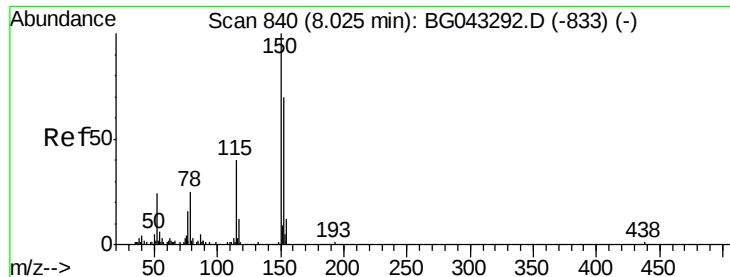
Instrument :  
BNA\_G  
ClientSampleId :  
18-48-(0-2.5)

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Quant Time: Nov 02 00:32:08 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 21 16:37:43 2019  
Response via : Initial Calibration





#1

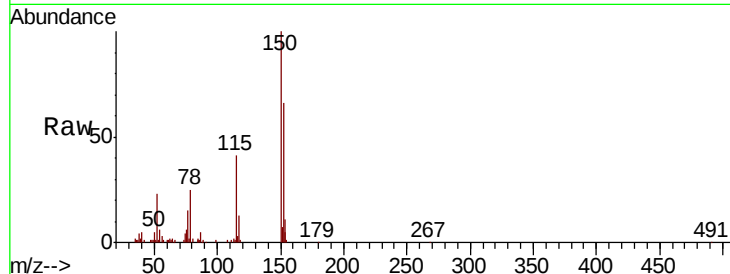
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.02 min Scan# 839  
Delta R.T. -0.01 min  
Lab File: BG043478.D  
Acq: 1 Nov 2019 23:06

Instrument :  
BNA\_G  
ClientSampleId :  
18-48-(0-2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.5 | 113.6 | 170.4 |
| 115     | 61.2  | 45.9  | 68.9  |

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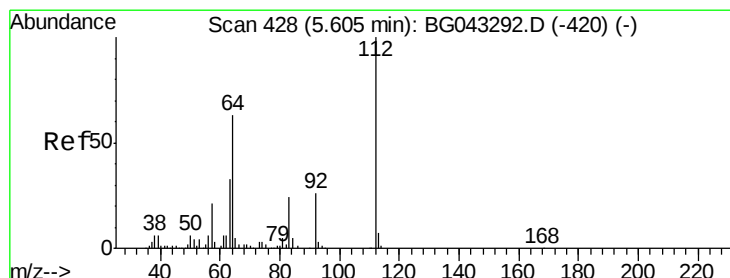
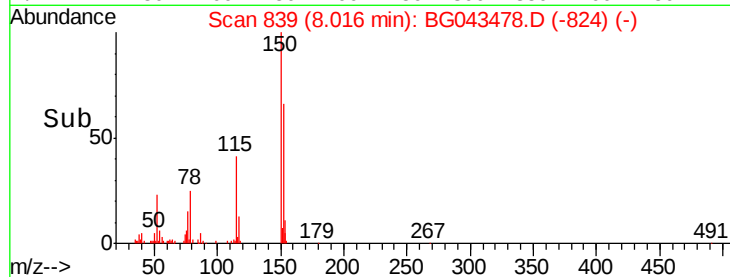
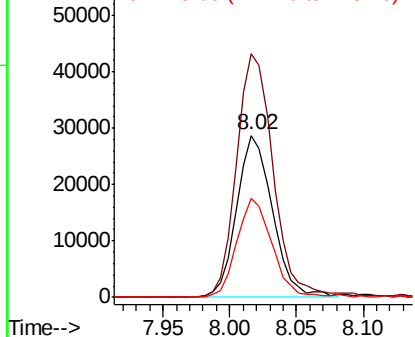


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

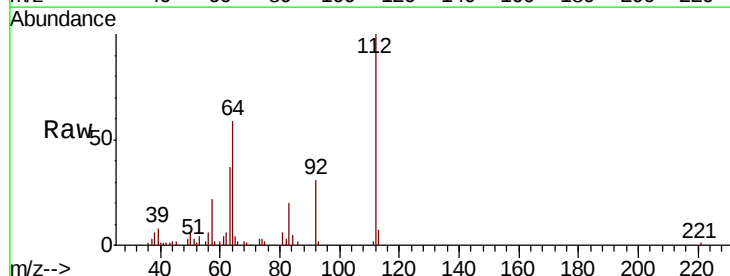
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 14.467 ng  
RT: 5.61 min Scan# 429  
Delta R.T. 0.00 min  
Lab File: BG043478.D  
Acq: 1 Nov 2019 23:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.4  | 50.2  | 75.2  |
| 63      | 36.7  | 26.7  | 40.1  |

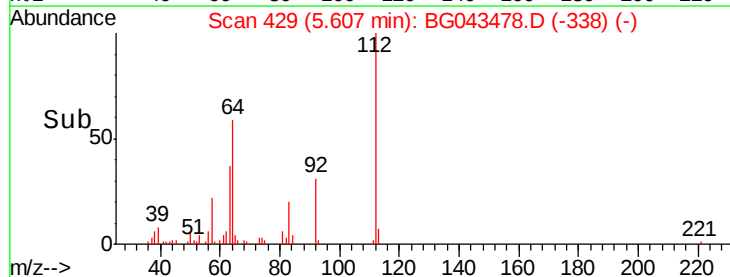
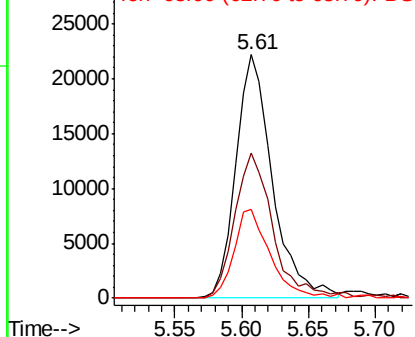


Abundance

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





#7

Phenol-d6

Concen: 13.930 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG043478.D

Acq: 1 Nov 2019 23:06

Instrument :

BNA\_G

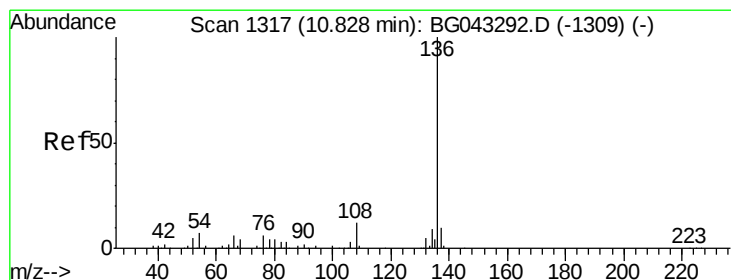
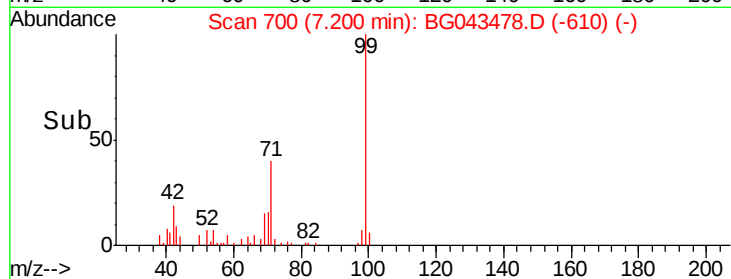
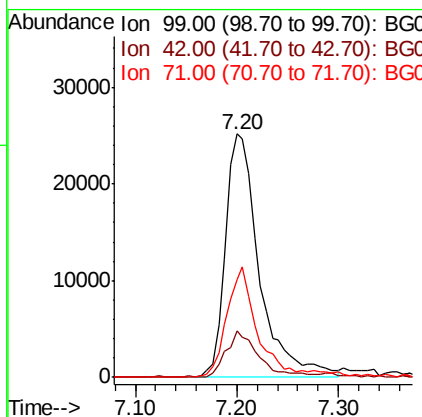
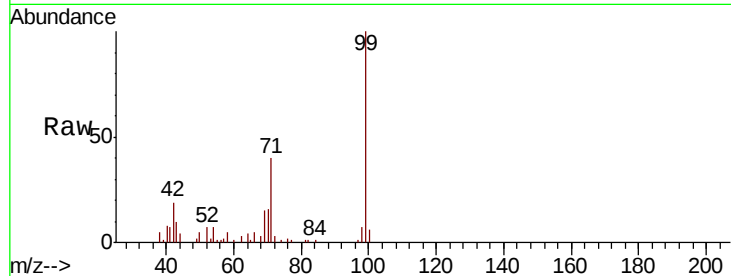
ClientSampleId :

18-48-(0-2.5)

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 58471 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 19.0  | 14.9  | 22.3  |
| 71       | 40.4  | 32.2  | 48.2  |

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#21

Naphthalene-d8

Concen: 20.000 ng

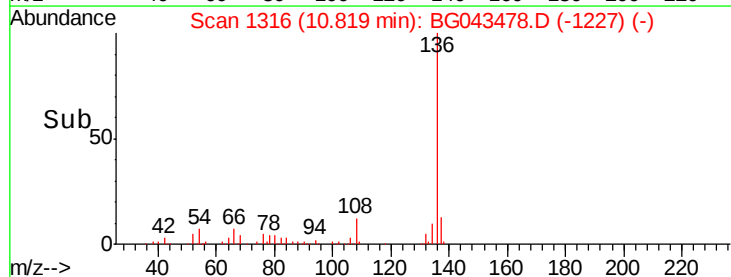
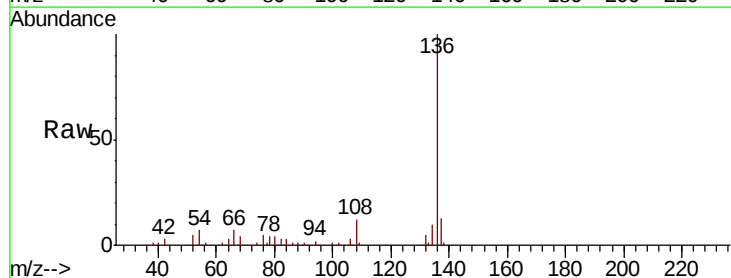
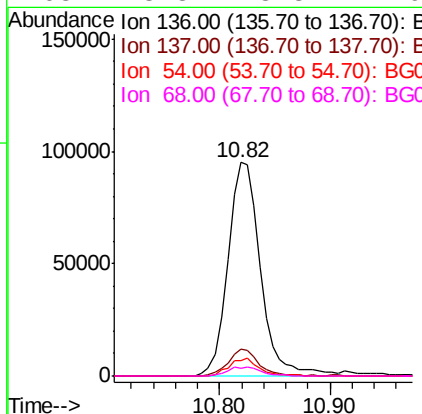
RT: 10.82 min Scan# 1316

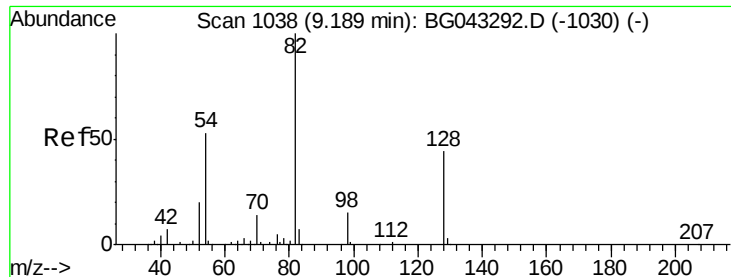
Delta R.T. -0.01 min

Lab File: BG043478.D

Acq: 1 Nov 2019 23:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 196693 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 12.7  | 8.2   | 12.2#  |
| 54       | 7.2   | 5.4   | 8.2    |
| 68       | 3.8   | 3.3   | 4.9    |





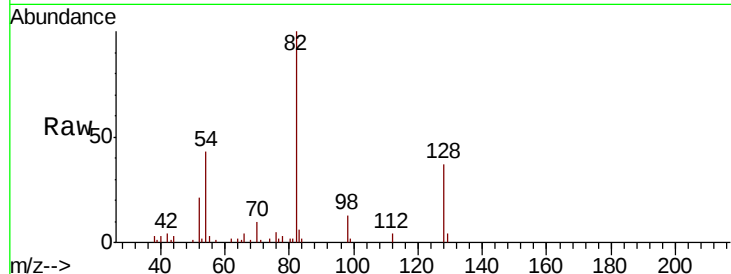
#23  
Nitrobenzene-d5  
Concen: 9.247 ng  
RT: 9.18 min Scan# 1037  
Delta R.T. -0.01 min  
Lab File: BG043478.D  
Acq: 1 Nov 2019 23:06

Instrument :  
BNA\_G  
ClientSampleId :  
18-48-(0-2.5)

| Tot Ion   | 82   | Resp  | 35279 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 82        | 100  |       |       |
| 128       | 37.4 | 35.3  | 52.9  |
| 54        | 43.0 | 42.3  | 63.5  |

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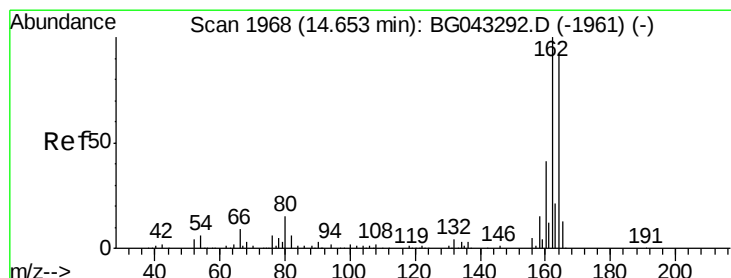
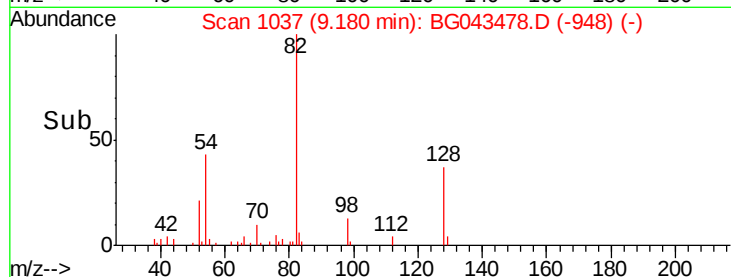
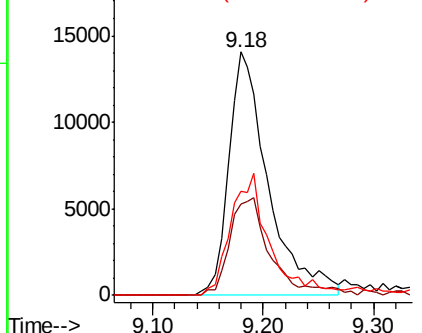


Abundance

Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): BGC

Ion 54.00 (53.70 to 54.70): BGC



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.64 min Scan# 1967  
Delta R.T. -0.01 min  
Lab File: BG043478.D  
Acq: 1 Nov 2019 23:06

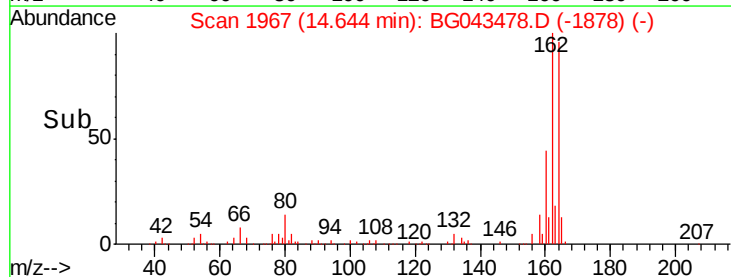
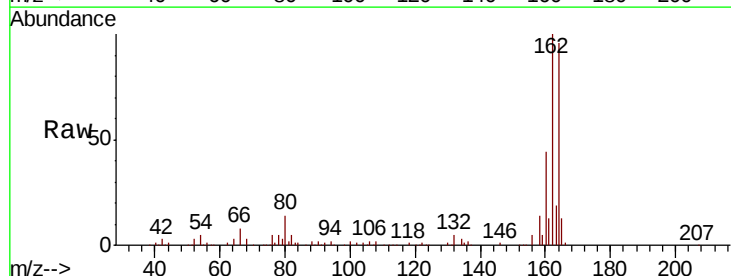
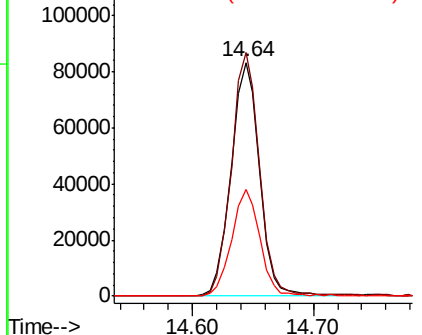
| Tgt Ion   | 164   | Resp  | 136876 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 164       | 100   |       |        |
| 162       | 104.2 | 87.0  | 130.4  |
| 160       | 45.8  | 35.5  | 53.3   |

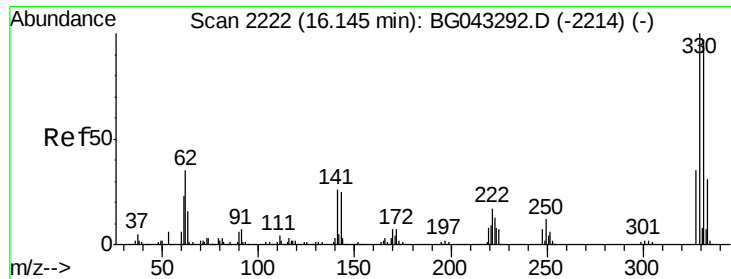
Abundance

Ion 164.00 (163.70 to 164.70): BGC

Ion 162.00 (161.70 to 162.70): BGC

Ion 160.00 (159.70 to 160.70): BGC





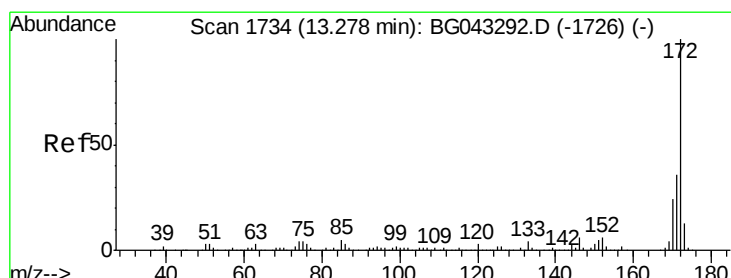
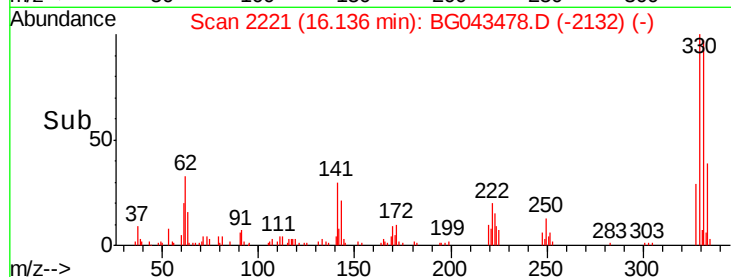
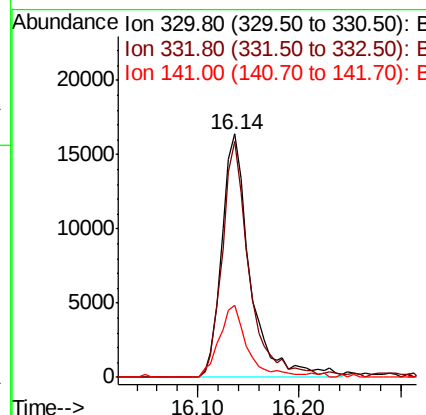
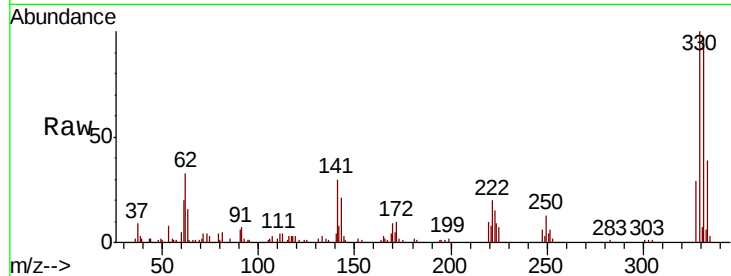
#42  
 2,4,6-Tribromophenol  
 Concen: 12.233 ng  
 RT: 16.14 min Scan# 2221  
 Delta R.T. -0.01 min  
 Lab File: BG043478.D  
 Acq: 1 Nov 2019 23:06

Instrument :  
 BNA\_G  
 ClientSampleId :  
 18-48-(0-2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 91.9  | 76.4  | 114.6 |
| 141     | 29.0  | 21.4  | 32.0  |

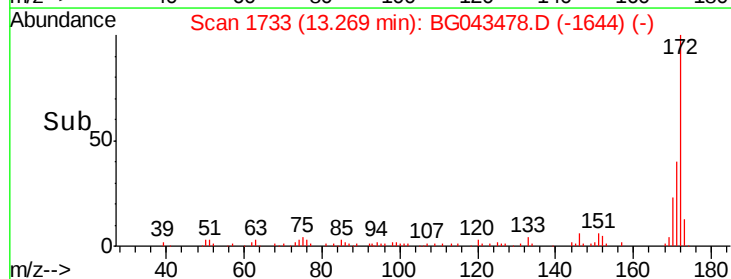
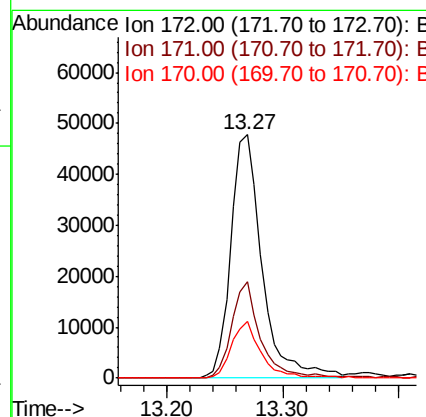
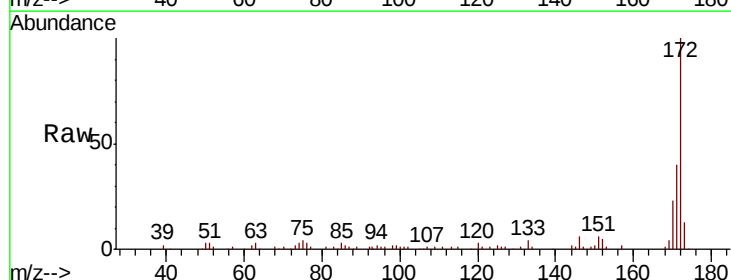
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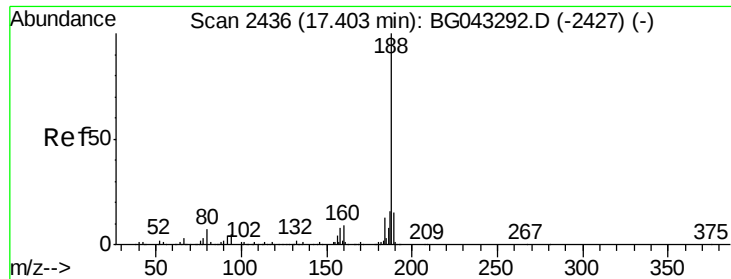
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#45  
 2-Fluorobiphenyl  
 Concen: 9.096 ng  
 RT: 13.27 min Scan# 1733  
 Delta R.T. -0.01 min  
 Lab File: BG043478.D  
 Acq: 1 Nov 2019 23:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 39.5  | 28.5  | 42.7  |
| 170     | 23.1  | 18.8  | 28.2  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.39 min Scan# 2434

Delta R.T. -0.02 min

Lab File: BG043478.D

Acq: 1 Nov 2019 23:06

Instrument :

BNA\_G

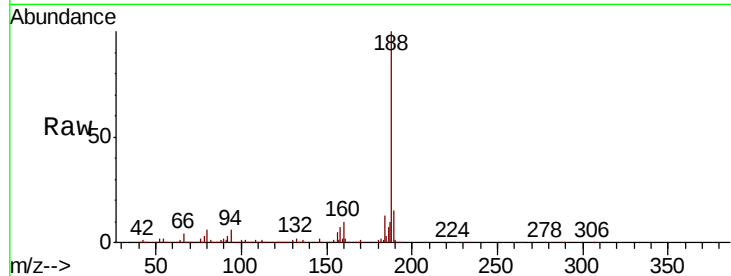
ClientSampleId :

18-48-(0-2.5)

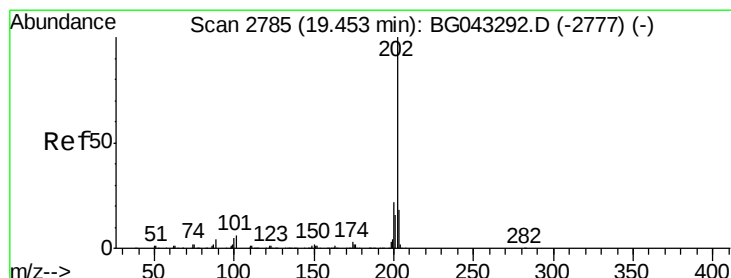
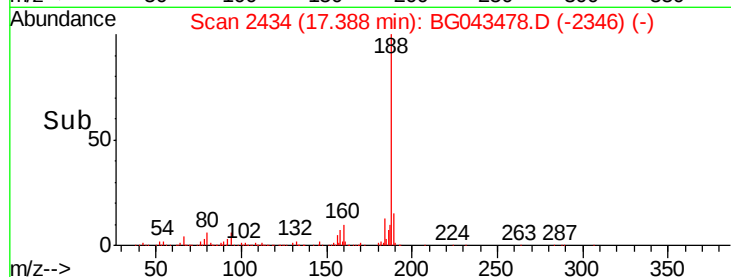
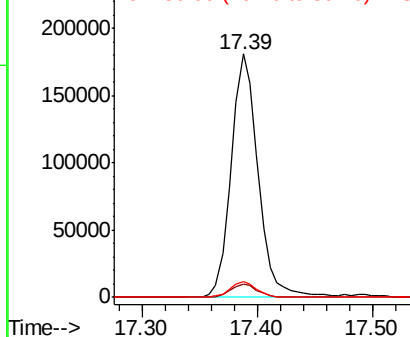
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 292571 |       |       |
| 94      | 5.6   |        | 4.2   | 6.2   |
| 80      | 6.4   |        | 5.2   | 7.8   |

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Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGO  
Ion 80.00 (79.70 to 80.70): BGO



#75

Fluoranthene

Concen: 3.632 ng

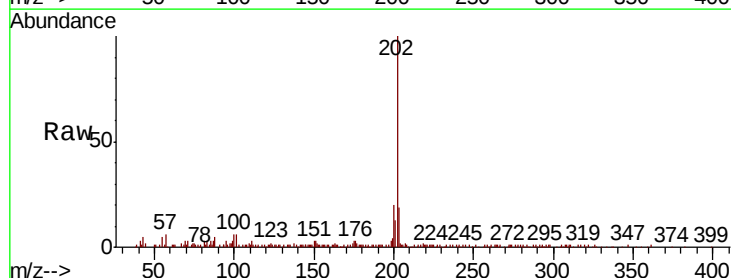
RT: 19.44 min Scan# 2783

Delta R.T. -0.02 min

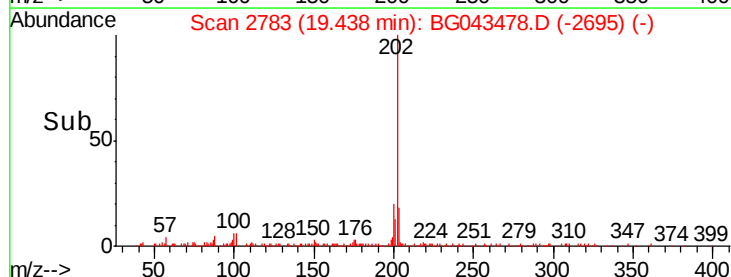
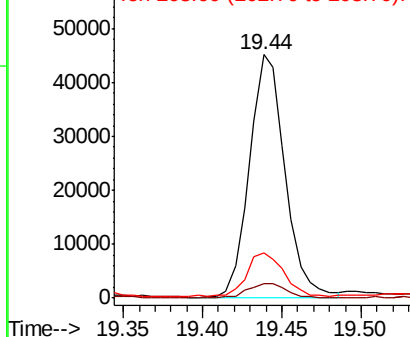
Lab File: BG043478.D

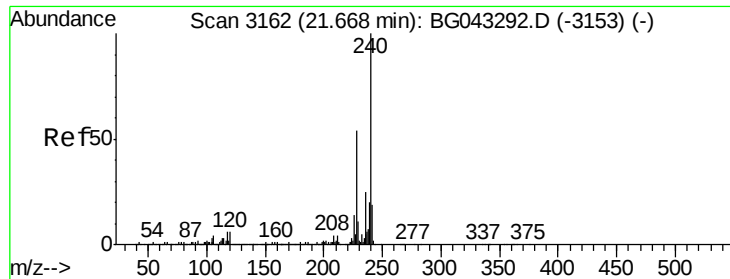
Acq: 1 Nov 2019 23:06

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 70933 |       |       |
| 101     | 6.2   |       | 0.0   | 26.0  |
| 203     | 18.6  |       | 0.0   | 38.2  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.65 min Scan# 3160

Delta R.T. -0.02 min

Lab File: BG043478.D

Acq: 1 Nov 2019 23:06

Instrument :

BNA\_G

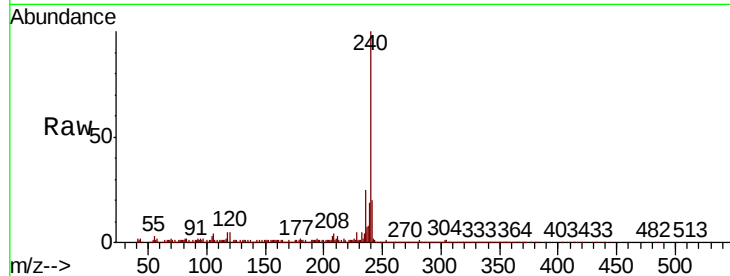
ClientSampleId :

18-48-(0-2.5)

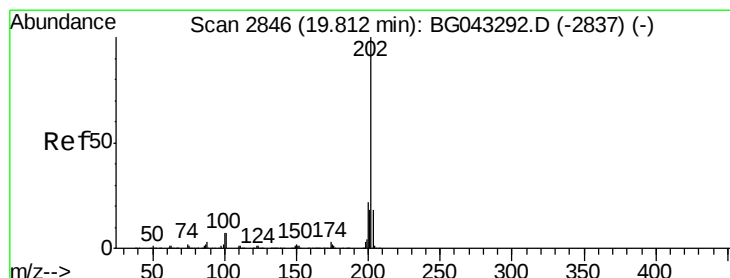
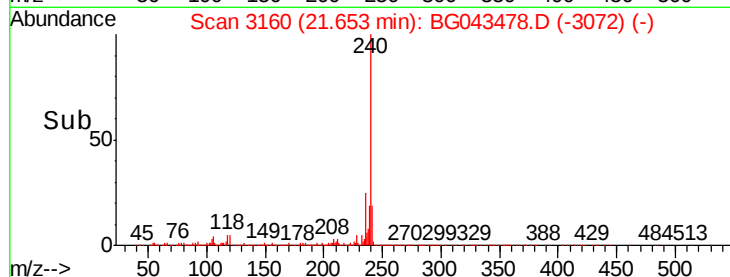
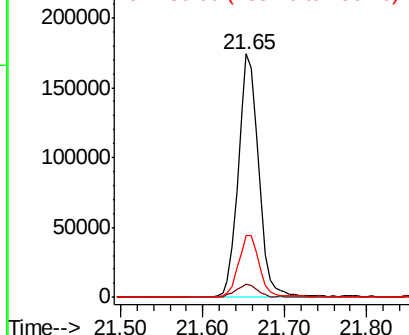
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 301241 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 5.4   | 4.6   | 7.0    |
| 236       | 25.4  | 20.2  | 30.4   |

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Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 3.690 ng

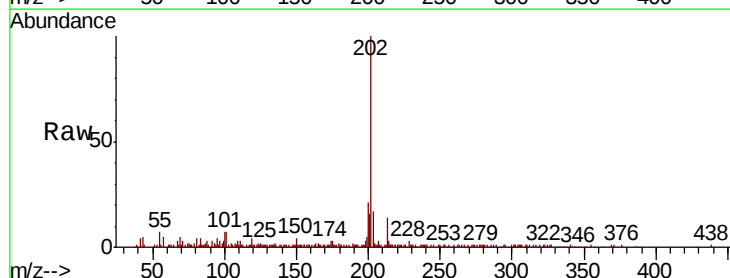
RT: 19.80 min Scan# 2845

Delta R.T. -0.01 min

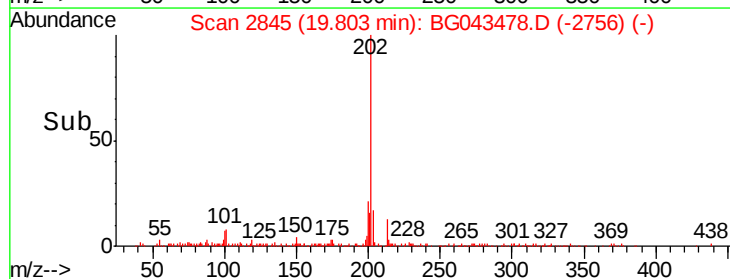
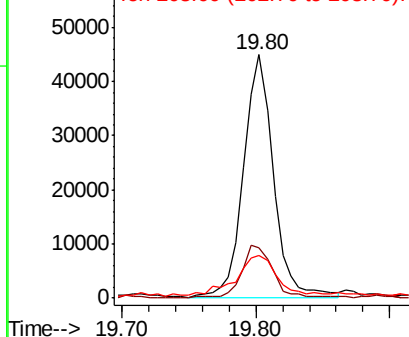
Lab File: BG043478.D

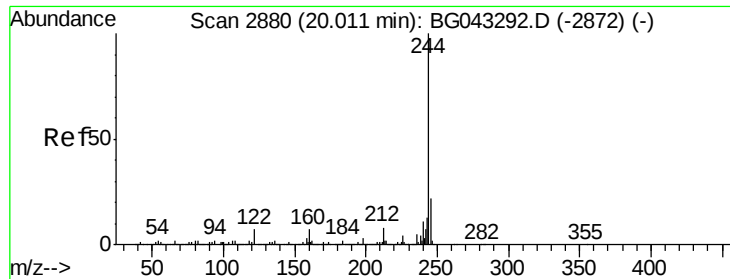
Acq: 1 Nov 2019 23:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 68803 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.8  | 17.3  | 25.9  |
| 203       | 17.3  | 14.5  | 21.7  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





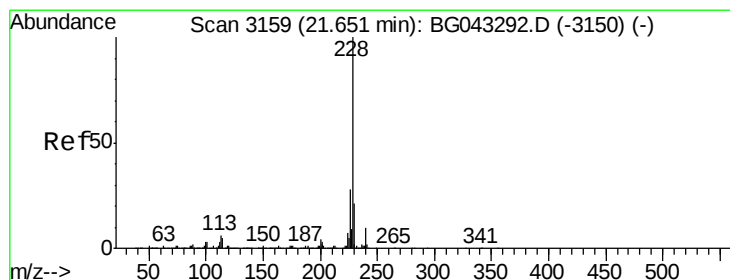
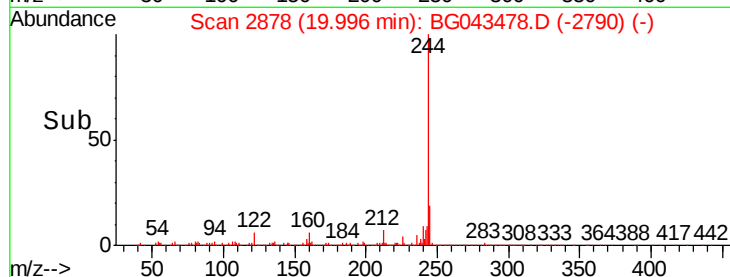
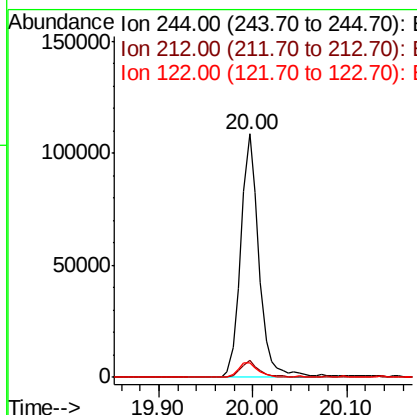
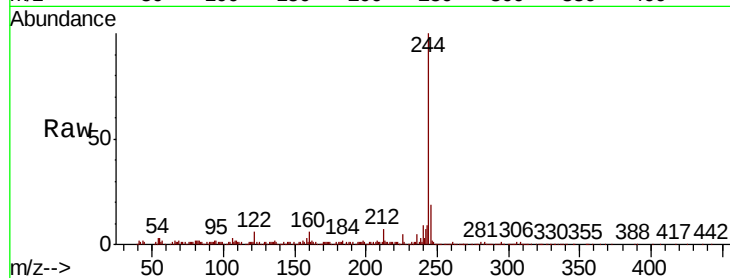
#79  
 Terphenyl-d14  
 Concen: 9.130 ng  
 RT: 20.00 min Scan# 2878  
 Delta R.T. -0.01 min  
 Lab File: BG043478.D  
 Acq: 1 Nov 2019 23:06

Instrument :  
 BNA\_G  
 ClientSampled :  
 18-48-(0-2.5)

|           |     |       |        |
|-----------|-----|-------|--------|
| Tot Ion:  | 244 | Resp: | 146608 |
| Ion Ratio |     | Lower | Upper  |
| 244       | 100 |       |        |
| 212       | 6.8 | 6.4   | 9.6    |
| 122       | 5.9 | 5.3   | 7.9    |

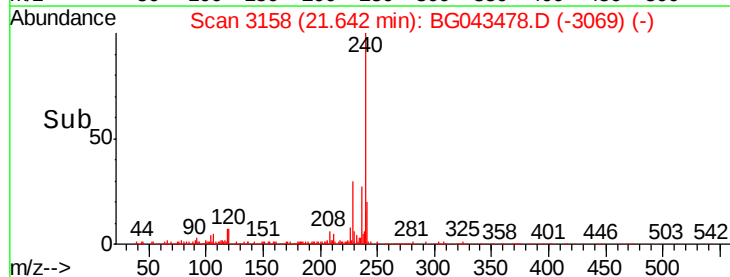
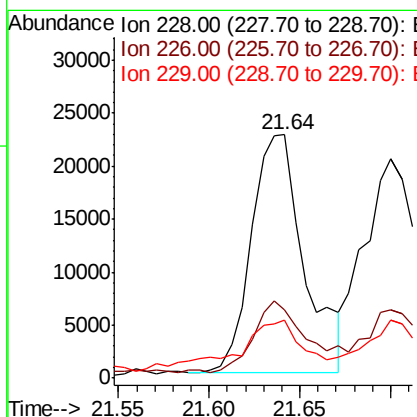
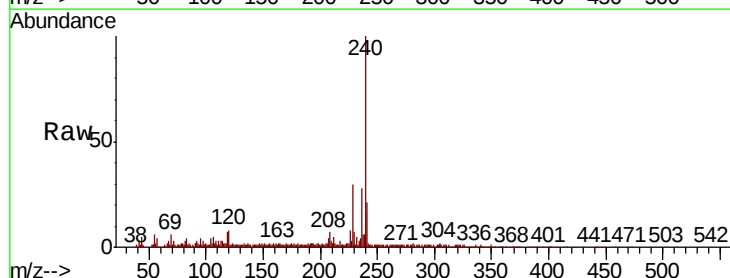
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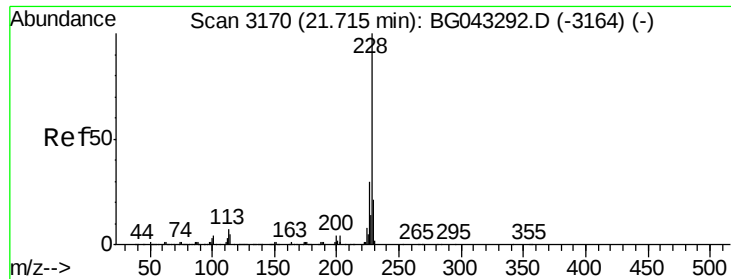
mohammad  
 11/4/2019 11:50:02 AM



#81  
 Benzo(a)anthracene  
 Concen: 2.421 ng  
 RT: 21.64 min Scan# 3158  
 Delta R.T. -0.01 min  
 Lab File: BG043478.D  
 Acq: 1 Nov 2019 23:06

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 228  | Resp: | 45690 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 226       | 28.0 | 22.2  | 33.4  |
| 229       | 23.7 | 16.9  | 25.3  |





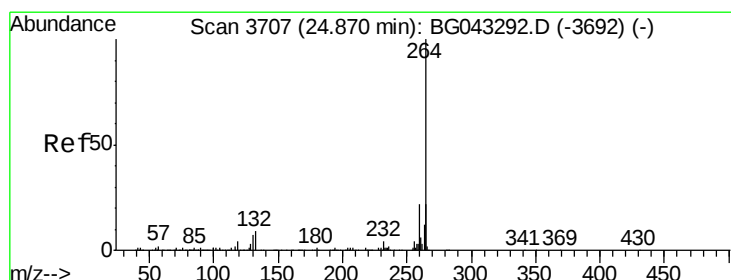
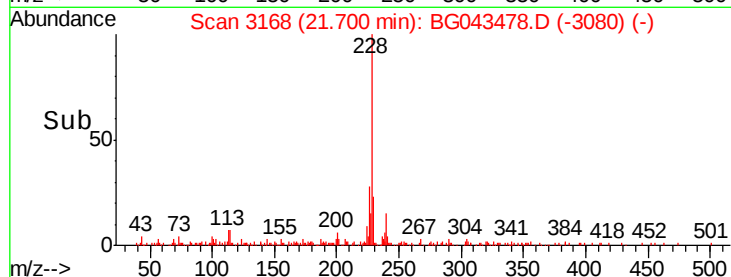
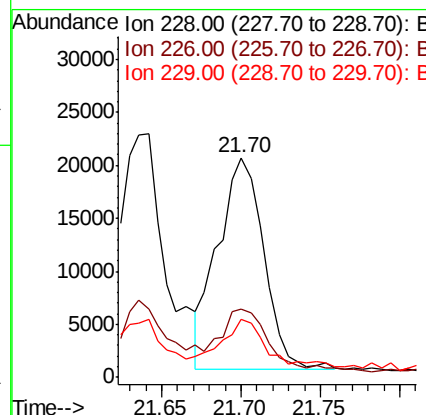
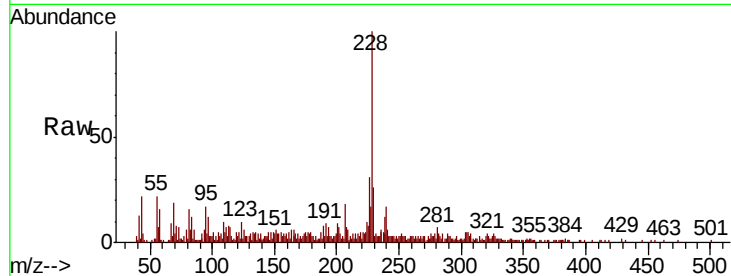
#83  
Chrysene  
Concen: 2.160 ng  
RT: 21.70 min Scan# 3168  
Delta R.T. -0.01 min  
Lab File: BG043478.D  
Acq: 1 Nov 2019 23:06

Instrument :  
BNA\_G  
ClientSampleId :  
18-48-(0-2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.8  | 23.8  | 35.8  |
| 229     | 26.1  | 16.3  | 24.5  |

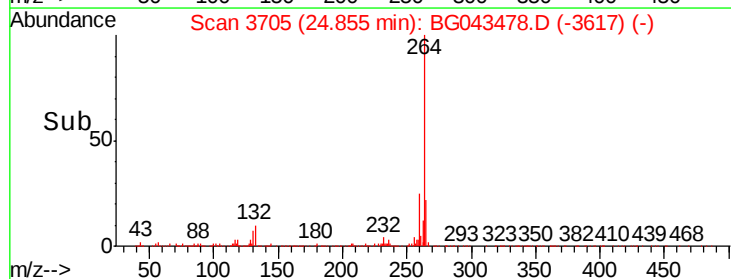
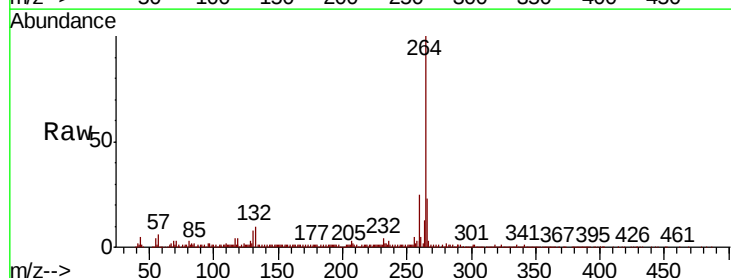
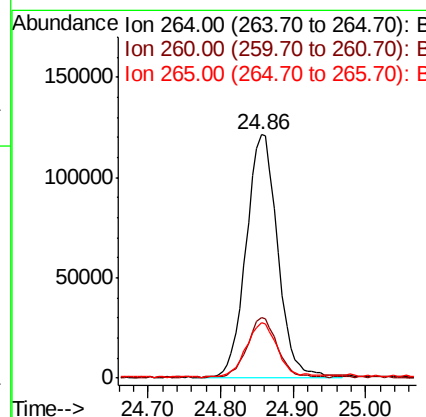
Manual Integrations  
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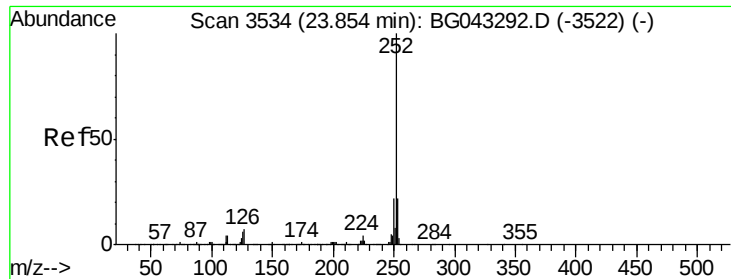
mohammad  
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.86 min Scan# 3705  
Delta R.T. -0.01 min  
Lab File: BG043478.D  
Acq: 1 Nov 2019 23:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 17.9  | 26.9  |
| 265     | 22.6  | 17.4  | 26.2  |





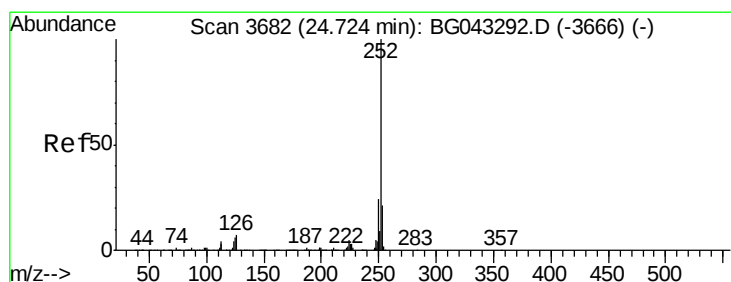
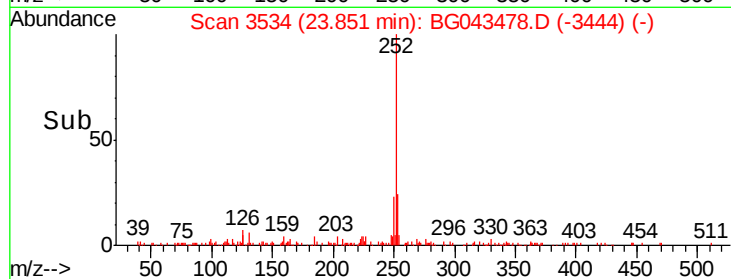
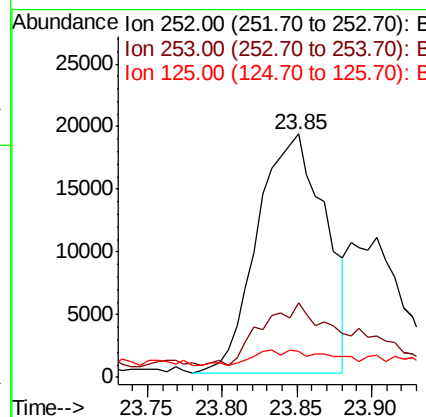
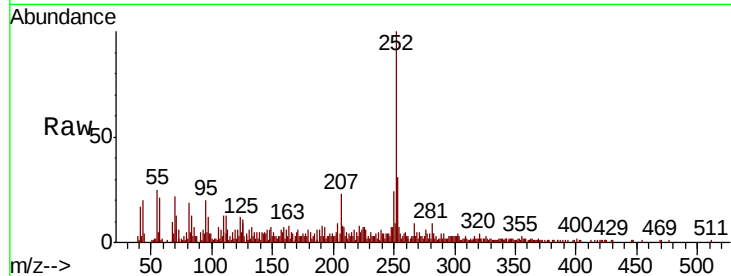
#88  
Benzo(b)fluoranthene  
Concen: 2.908 ng  
RT: 23.85 min Scan# 3534  
Delta R.T. -0.00 min  
Lab File: BG043478.D  
Acq: 1 Nov 2019 23:06

Instrument :  
BNA\_G  
ClientSampled :  
18-48-(0-2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.9  | 17.4  | 26.2# |
| 125     | 10.7  | 5.0   | 7.6#  |

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#90  
Benzo(a)pyrene  
Concen: 2.285 ng  
RT: 24.70 min Scan# 3678  
Delta R.T. -0.03 min  
Lab File: BG043478.D  
Acq: 1 Nov 2019 23:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.9  | 17.2  | 25.8# |
| 125     | 13.0  | 5.0   | 7.6#  |

