

Data Path : Z:\HPCHEM1\BNA G\DATA\BG061716\  
 Data File : BG022433.D  
 Acq On : 18 Jun 2016 21:18  
 Operator : UM/SJ  
 Sample : H3471-10  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 STA-1045-(0-4)

Manual Integrations  
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Quant Time: Jun 20 13:48:10 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 13 17:40:23 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.04  | 152  | 28652    | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8          | 10.86 | 136  | 146935   | 20.00  | ng    | -0.04    |
| 38) Acenaphthene-d10        | 14.68 | 164  | 94268    | 20.00  | ng    | -0.04    |
| 63) Phenanthrene-d10        | 17.43 | 188  | 199679   | 20.00  | ng    | -0.04    |
| 75) Chrysene-d12            | 21.69 | 240  | 161480   | 20.00  | ng    | -0.05    |
| 86) Perylene-d12            | 24.92 | 264  | 153204   | 20.00  | ng    | -0.09    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.60  | 112  | 256567   | 173.13 | ng    | -0.04    |
| 7) Phenol-d6                | 7.23  | 99   | 392441   | 168.43 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 9.22  | 82   | 214566   | 101.81 | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol    | 16.17 | 330  | 133289   | 125.13 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl        | 13.30 | 172  | 541652   | 87.56  | ng    | -0.04    |
| 78) Terphenyl-d14           | 20.02 | 244  | 594312   | 87.38  | ng    | -0.04    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 14.12 | 163  | 127610   | 16.33  | ng    | 100      |
| 70) Phenanthrene            | 17.47 | 178  | 27927    | 2.58   | ng    | 95       |
| 74) Fluoranthene            | 19.47 | 202  | 118676   | 9.52   | ng    | 96       |
| 77) Pyrene                  | 19.83 | 202  | 117924   | 11.75  | ng    | 98       |
| 80) Benzo(a)anthracene      | 21.67 | 228  | 58756    | 6.49   | ng    | 95       |
| 82) Chrysene                | 21.73 | 228  | 59746    | 6.78   | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 28.63 | 276  | 30197    | 3.05   | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 23.90 | 252  | 76558m   | 8.57   | ng    |          |
| 88) Benzo(k)fluoranthene    | 23.95 | 252  | 30788m   | 3.50   | ng    |          |
| 89) Benzo(a)pyrene          | 24.77 | 252  | 42033    | 4.92   | ng    | # 86     |
| 91) Benzo(g,h,i)perylene    | 29.79 | 276  | 28406    | 3.39   | ng    | # 92     |

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

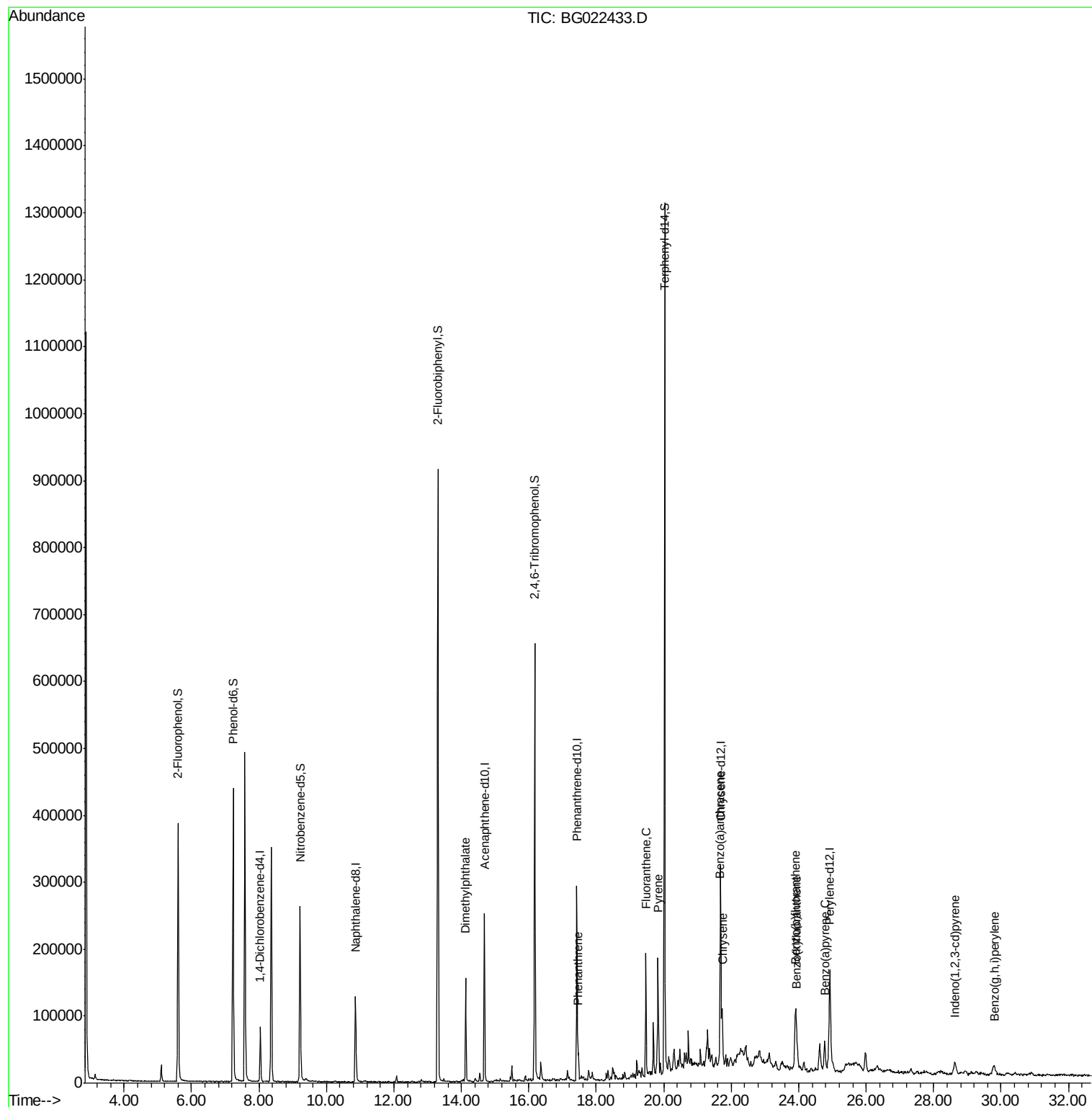
Data Path : Z:\HPCHEM1\BNA G\DATA\BG061716\  
Data File : BG022433.D  
Acq On : 18 Jun 2016 21:18  
Operator : UM/SJ  
Sample : H3471-10  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

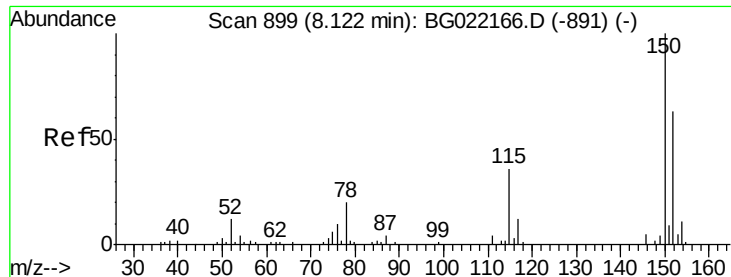
Instrument :  
BNA\_G  
ClientSampleId :  
STA-1045-(0-4)

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Quant Time: Jun 20 13:48:10 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 13 17:40:23 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.04 min Scan# 885

Delta R.T. -0.05 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

Instrument :

BNA\_G

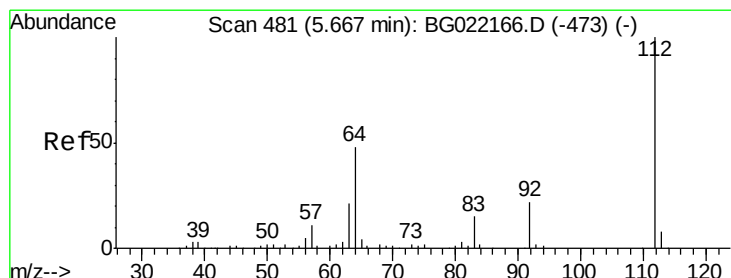
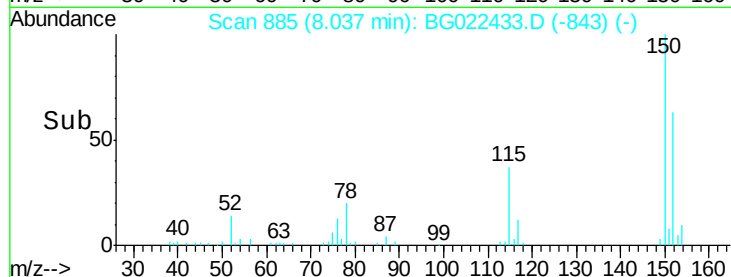
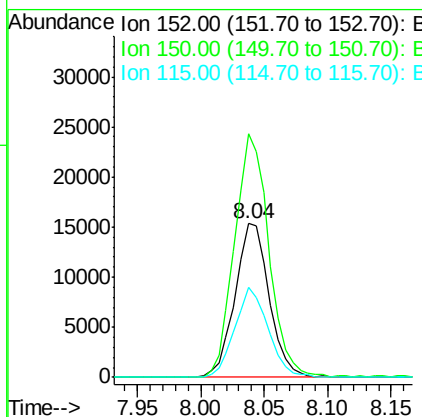
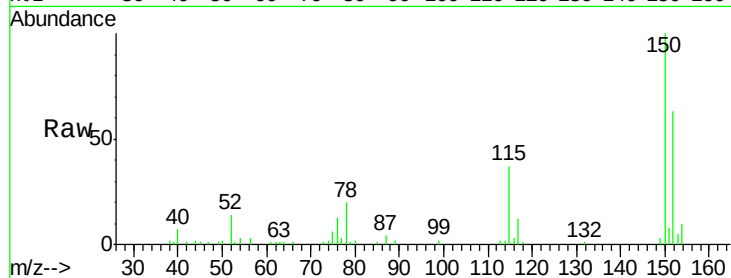
ClientSampleId :

STA-1045-(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.6 | 130.1 | 195.1 |
| 115     | 58.9  | 62.2  | 93.2  |

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#5

2-Fluorophenol

Concen: 173.13 ng

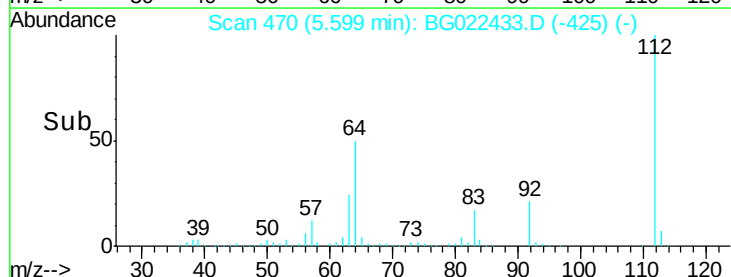
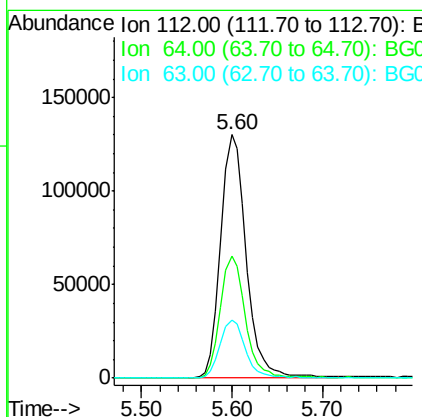
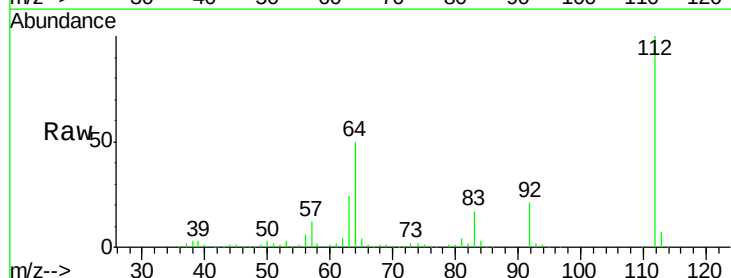
RT: 5.60 min Scan# 470

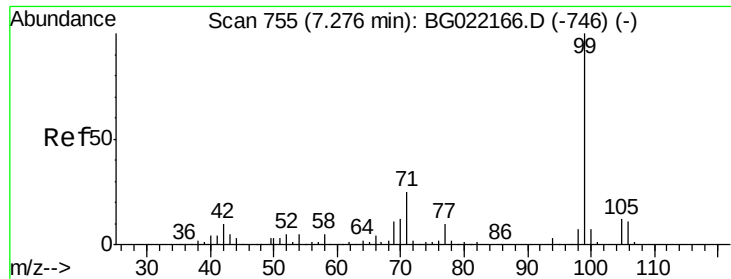
Delta R.T. -0.04 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 50.3  | 51.1  | 76.7  |
| 63      | 23.9  | 24.6  | 37.0  |





#7

Phenol-d6

Concen: 168.43 ng

RT: 7.23 min Scan# 748

Delta R.T. -0.02 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

Instrument :

BNA\_G

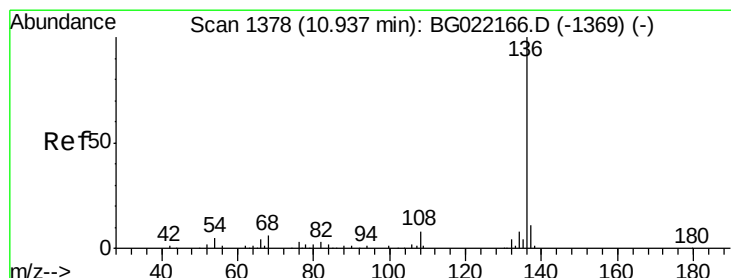
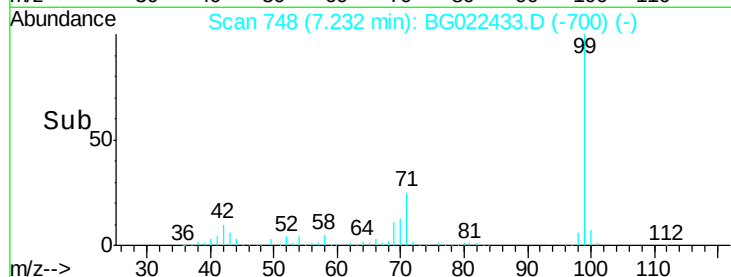
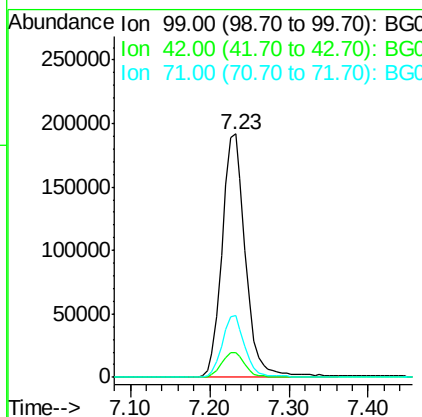
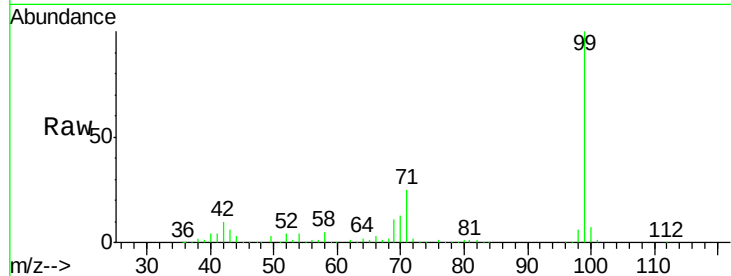
ClientSampled :

STA-1045-(0-4)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 392441 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 10.3  | 16.4  | 24.6#  |
| 71        | 25.3  | 25.0  | 37.4   |

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#21

Naphthalene-d8

Concen: 20.00 ng

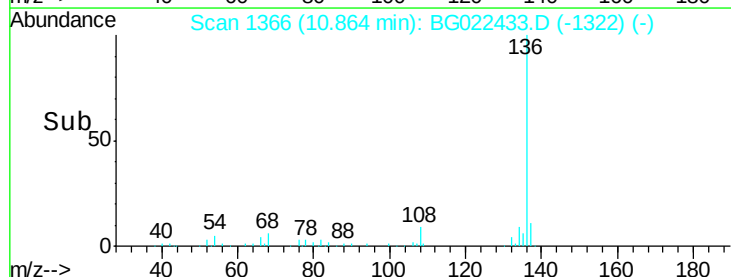
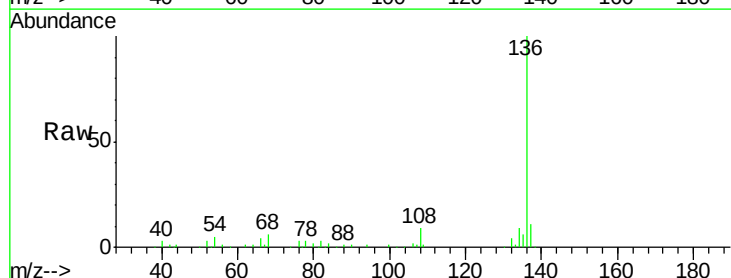
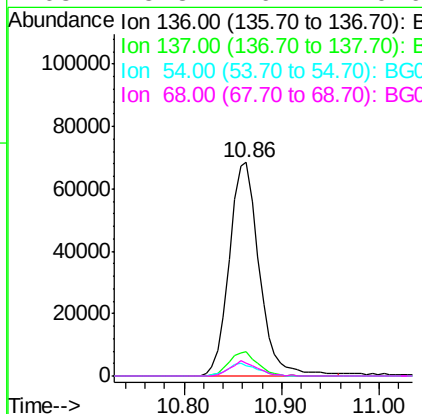
RT: 10.86 min Scan# 1366

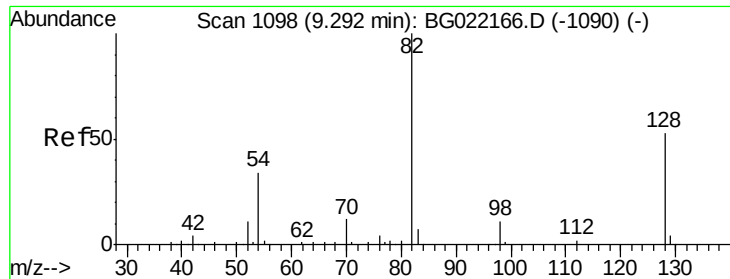
Delta R.T. -0.04 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 146935 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 9.0   | 13.4   |
| 54        | 5.1   | 9.6   | 14.4#  |
| 68        | 5.8   | 6.4   | 9.6#   |





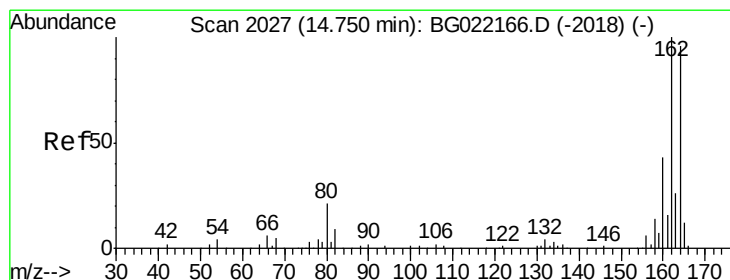
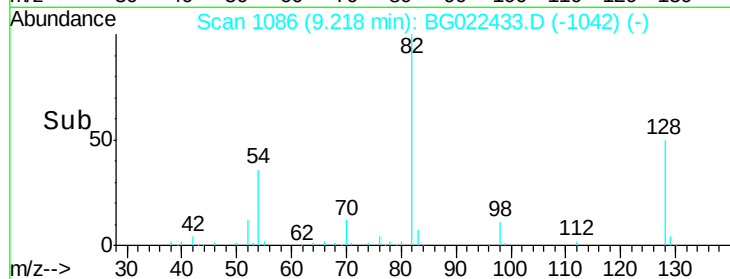
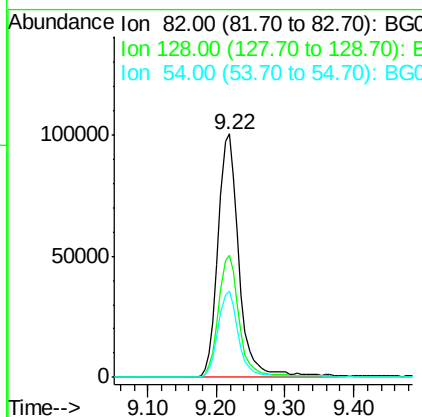
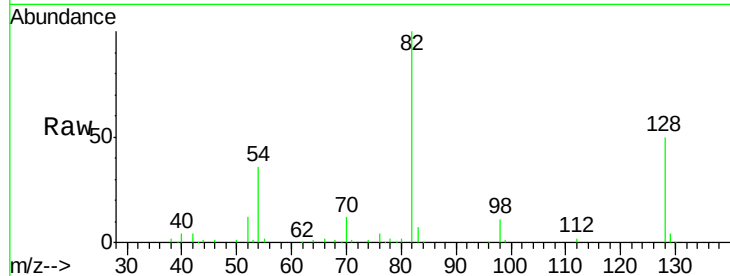
#23  
 Nitrobenzene-d5  
 Concen: 101.81 ng  
 RT: 9.22 min Scan# 1086  
 Delta R.T. -0.04 min  
 Lab File: BG022433.D  
 Acq: 18 Jun 2016 21:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 STA-1045-(0-4)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 214566 |       |       |
| 128     | 49.9  | 33.4   | 50.0  |       |
| 54      | 35.5  | 46.1   | 69.1  |       |

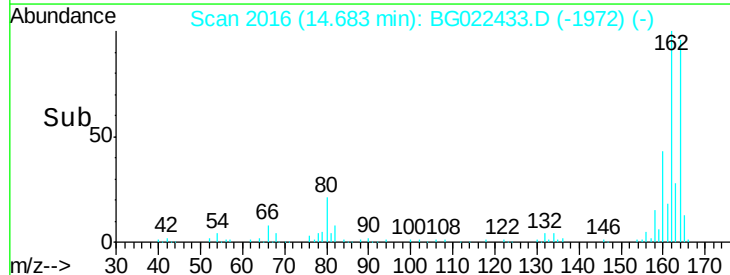
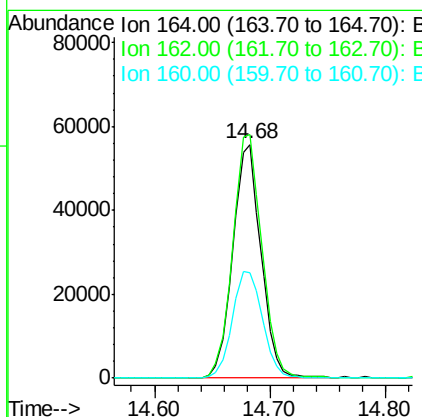
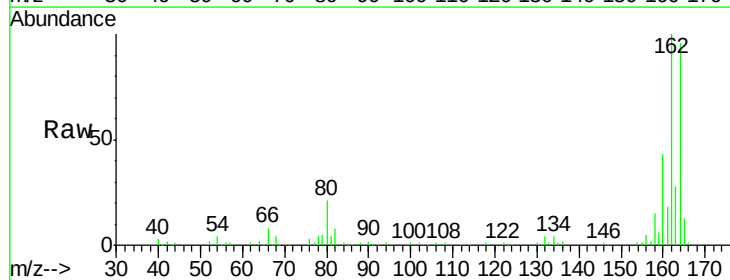
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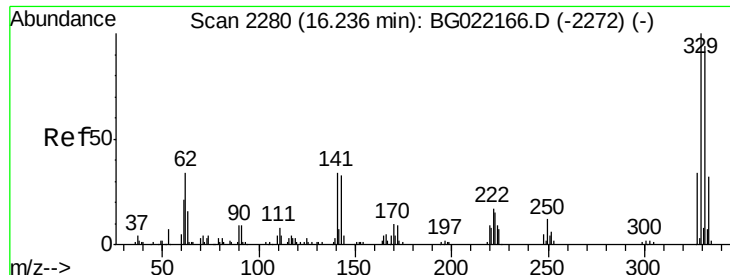
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.68 min Scan# 2016  
 Delta R.T. -0.04 min  
 Lab File: BG022433.D  
 Acq: 18 Jun 2016 21:18

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 164     | 100   | 94268 |       |       |
| 162     | 104.3 | 78.0  | 117.0 |       |
| 160     | 45.0  | 32.9  | 49.3  |       |





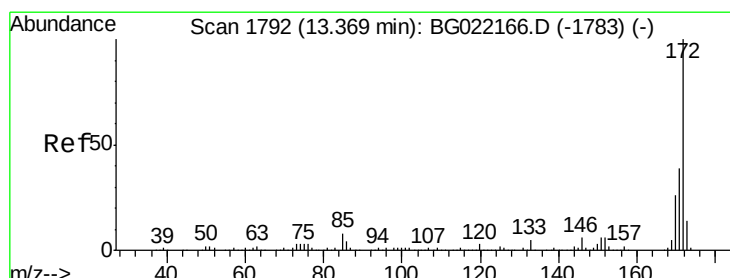
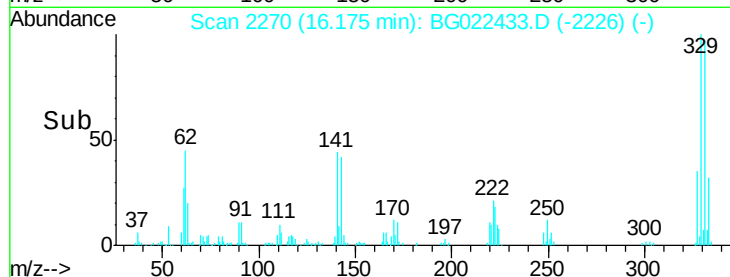
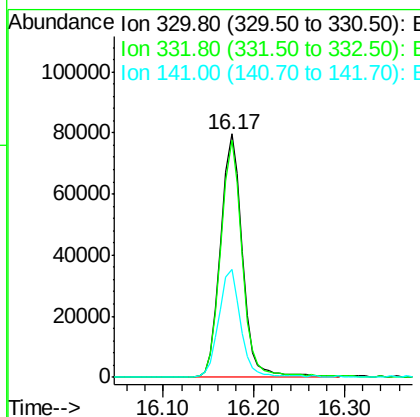
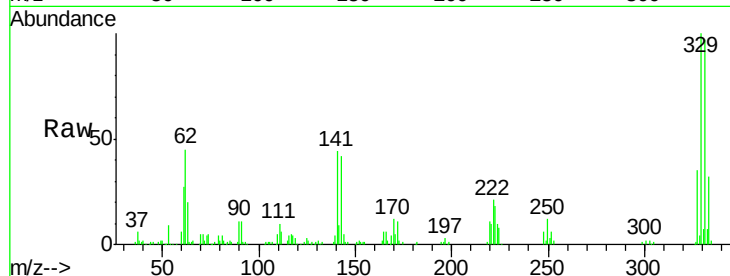
#41  
 2,4,6-Tribromophenol  
 Concen: 125.13 ng  
 RT: 16.17 min Scan# 2270  
 Delta R.T. -0.04 min  
 Lab File: BG022433.D  
 Acq: 18 Jun 2016 21:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 STA-1045-(0-4)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.6  | 78.0 | 117.0 |       |
| 141     | 44.1  | 33.8 | 50.8  |       |

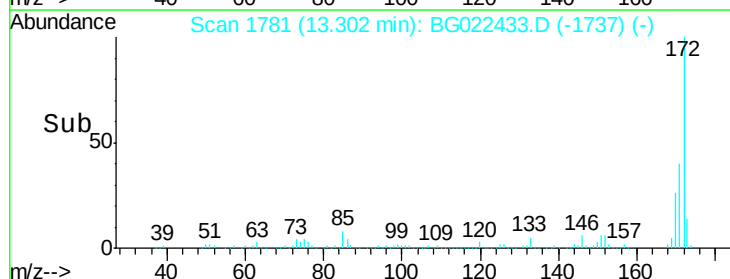
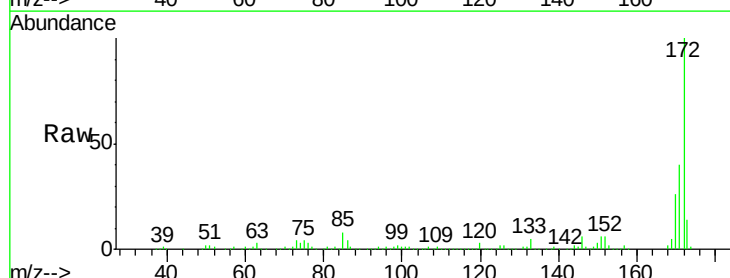
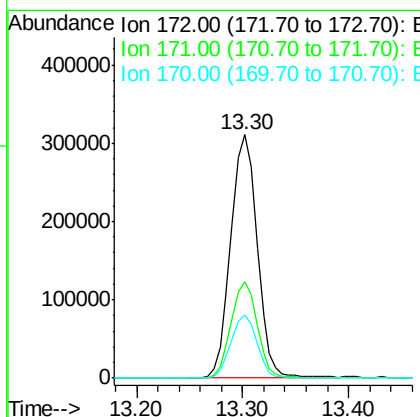
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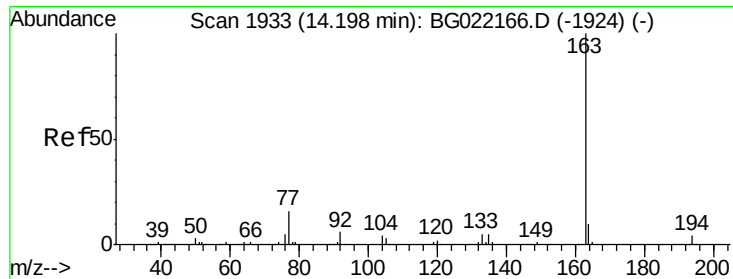
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#44  
 2-Fluorobiphenyl  
 Concen: 87.56 ng  
 RT: 13.30 min Scan# 1781  
 Delta R.T. -0.04 min  
 Lab File: BG022433.D  
 Acq: 18 Jun 2016 21:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 39.6  | 27.8 | 41.6  |       |
| 170     | 26.2  | 19.6 | 29.4  |       |





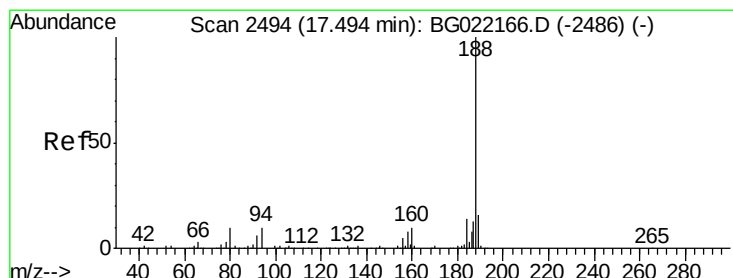
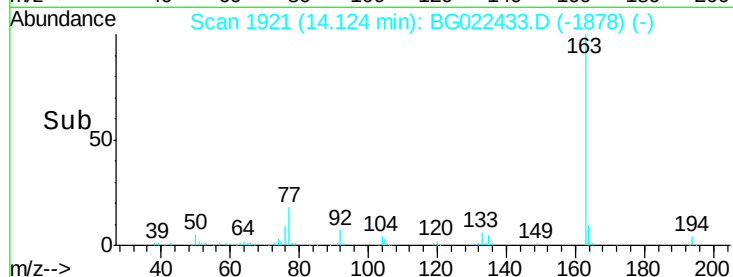
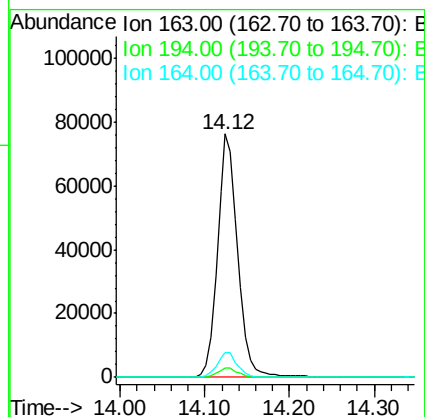
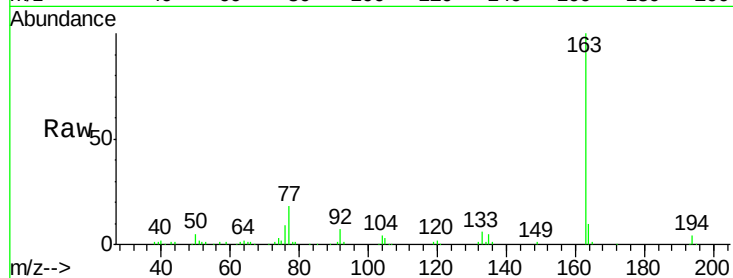
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Dimethylphthalate  
Concen: 16.33 ng  
RT: 14.12 min Scan# 1921  
Delta R.T. -0.05 min  
Lab File: BG022433.D  
Acq: 18 Jun 2016 21:18

Instrument :  
BNA\_G  
ClientSampled :  
STA-1045-(0-4)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 163     | 100  |       | 127610 |       |       |
| 194     | 3.8  |       | 3.0    | 4.6   |       |
| 164     | 10.3 |       | 8.1    | 12.1  |       |

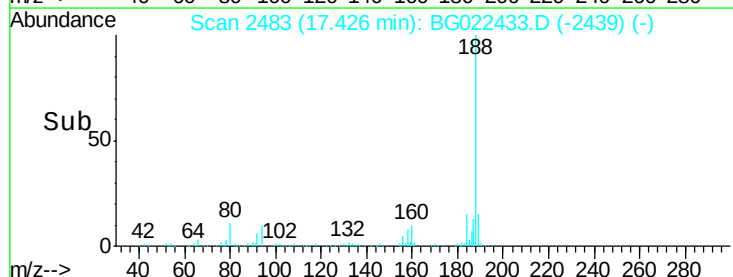
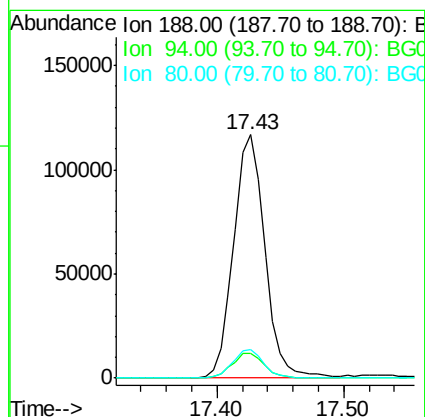
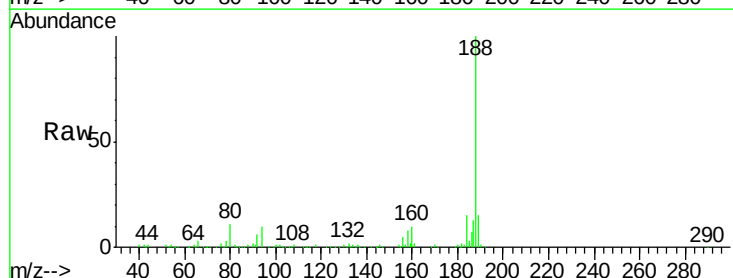
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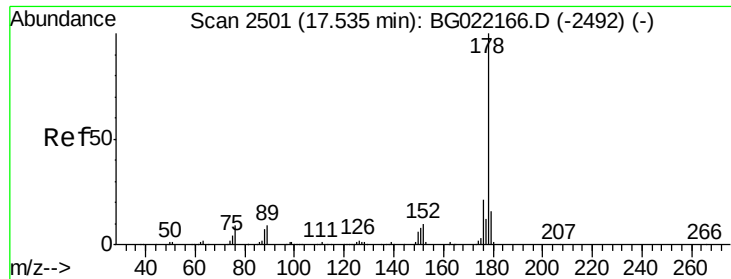
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.43 min Scan# 2483  
Delta R.T. -0.04 min  
Lab File: BG022433.D  
Acq: 18 Jun 2016 21:18

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 188     | 100  |       | 199679 |       |       |
| 94      | 10.4 |       | 7.5    | 11.3  |       |
| 80      | 11.5 |       | 8.6    | 13.0  |       |





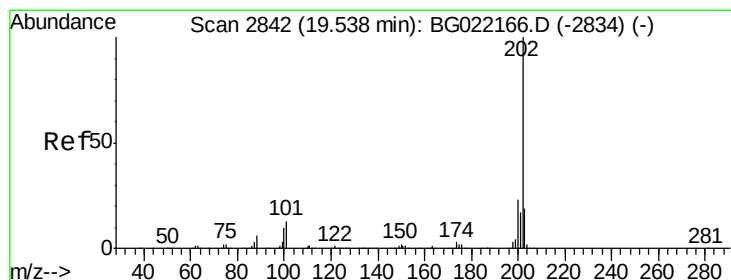
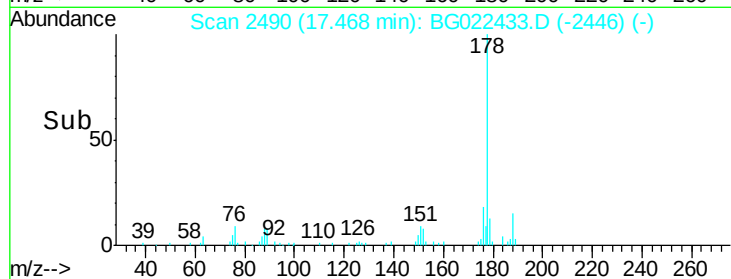
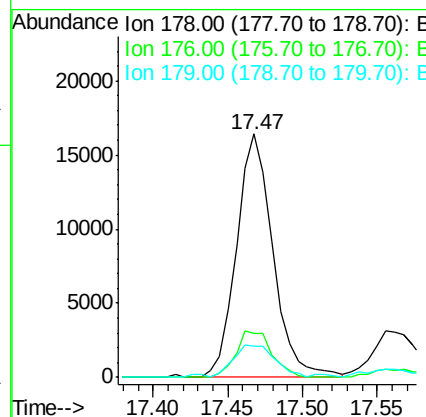
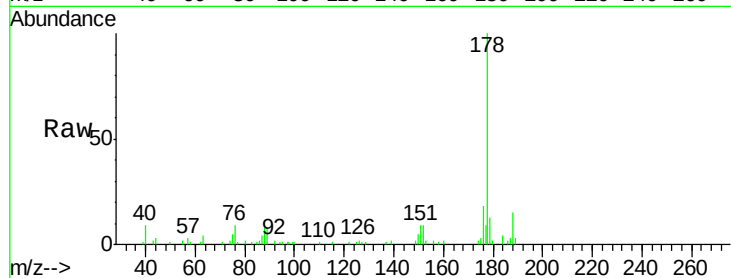
#70  
Phenanthrene  
Concen: 2.58 ng  
RT: 17.47 min Scan# 2490  
Delta R.T. -0.04 min  
Lab File: BG022433.D  
Acq: 18 Jun 2016 21:18

Instrument :  
BNA\_G  
ClientSampleId :  
STA-1045-(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 16.2  | 24.4  |
| 179     | 13.0  | 12.0  | 18.0  |

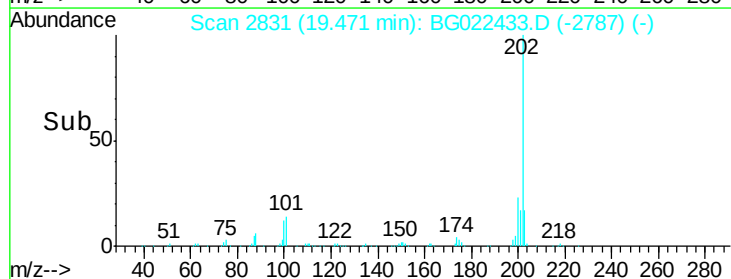
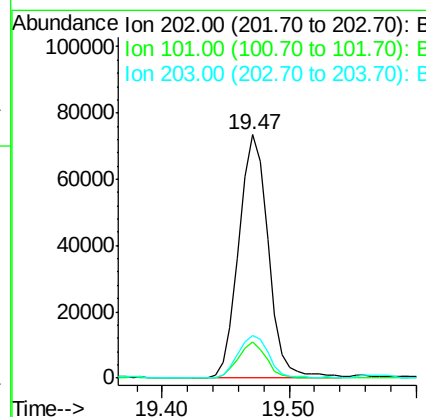
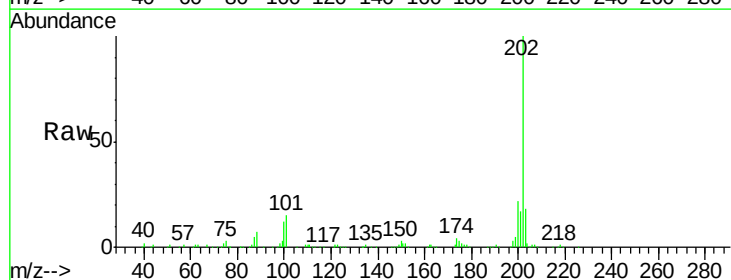
Manual Integrations  
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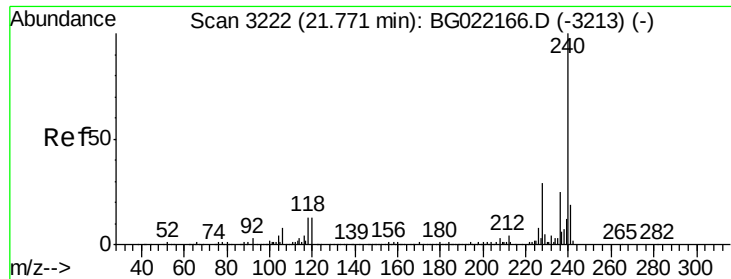


#74  
Fluoranthene  
Concen: 9.52 ng  
RT: 19.47 min Scan# 2831  
Delta R.T. -0.04 min  
Lab File: BG022433.D  
Acq: 18 Jun 2016 21:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.9  | 0.0   | 31.0  |
| 203     | 17.5  | 0.0   | 37.9  |







#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.69 min Scan# 3208

Delta R.T. -0.05 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

Instrument :

BNA\_G

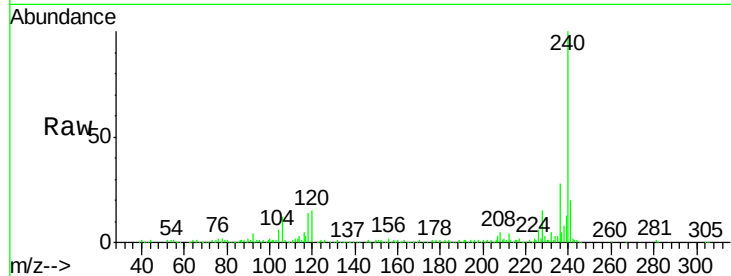
ClientSampleId :

STA-1045-(0-4)

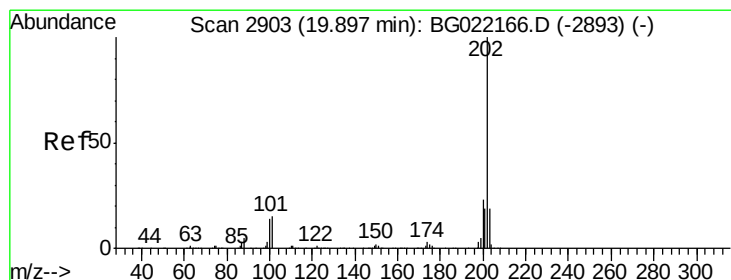
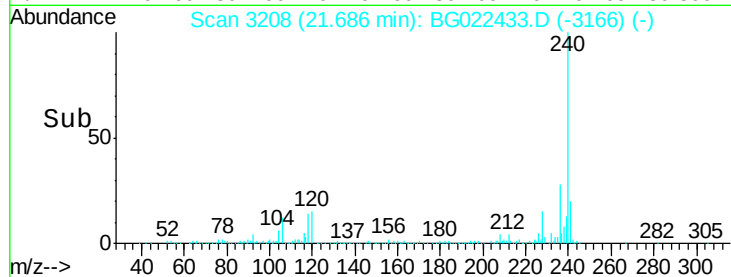
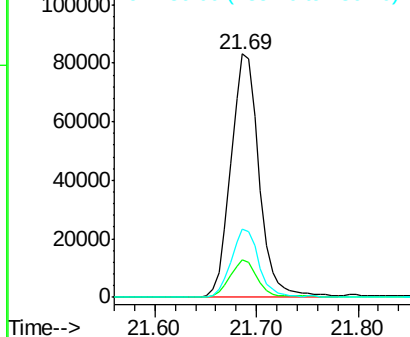
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 161480 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 15.4  | 8.4   | 12.6#  |
| 236       | 27.8  | 19.6  | 29.4   |

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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



#77

Pyrene

Concen: 11.75 ng

RT: 19.83 min Scan# 2892

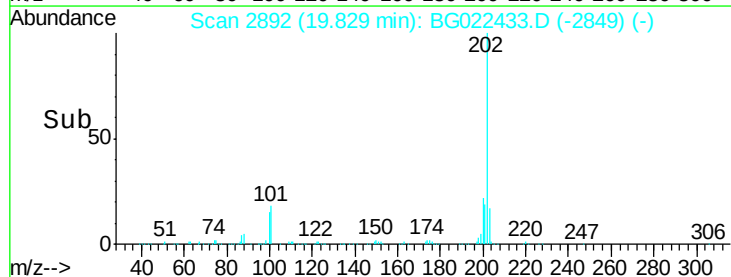
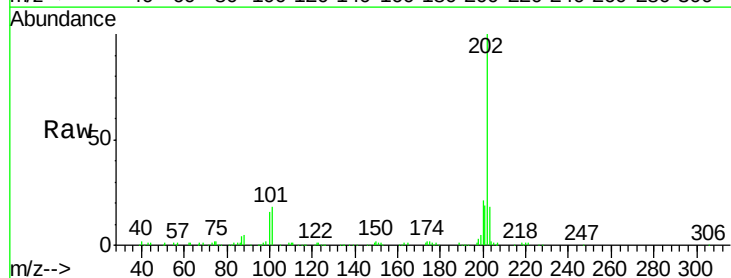
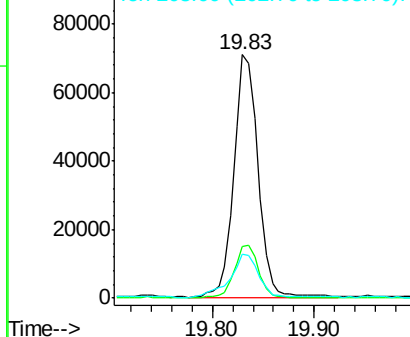
Delta R.T. -0.05 min

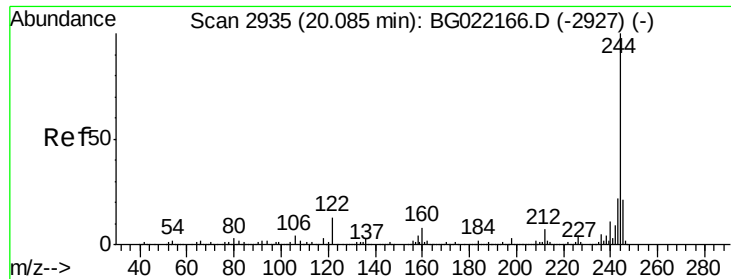
Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 117924 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.4  | 18.2  | 27.2   |
| 203       | 18.0  | 15.0  | 22.4   |

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





#78

Terphenyl-d14

Concen: 87.38 ng

RT: 20.02 min Scan# 2925

Delta R.T. -0.04 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

Instrument :

BNA\_G

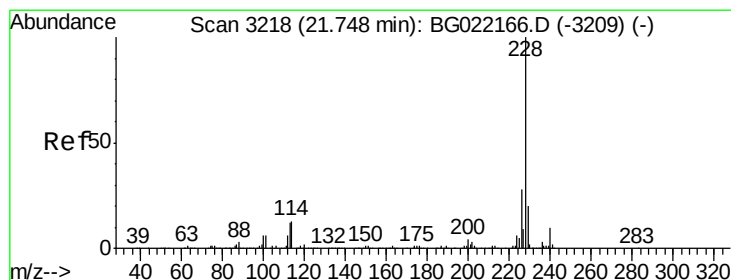
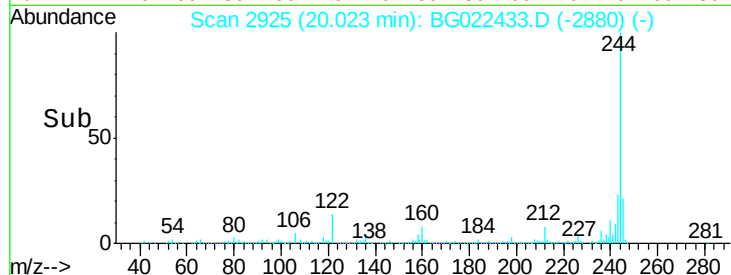
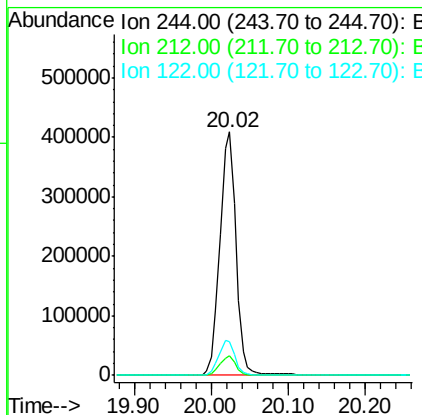
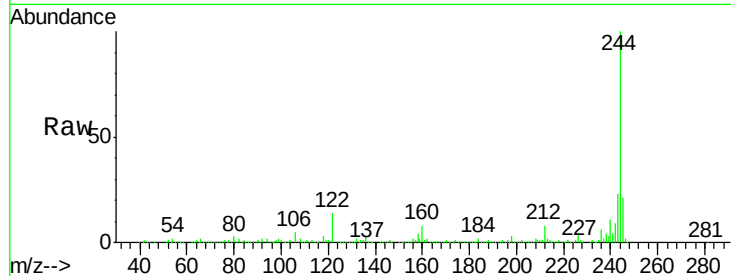
ClientSampled :

STA-1045-(0-4)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 594312 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.9   | 6.5   | 9.7    |
| 122       | 13.7  | 8.6   | 12.8#  |

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#80

Benzo(a)anthracene

Concen: 6.49 ng

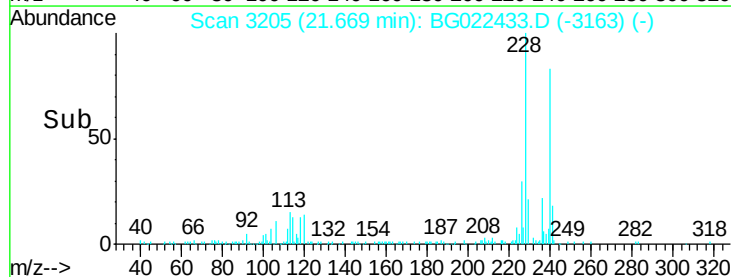
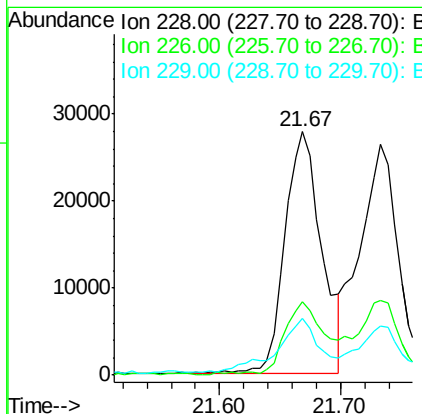
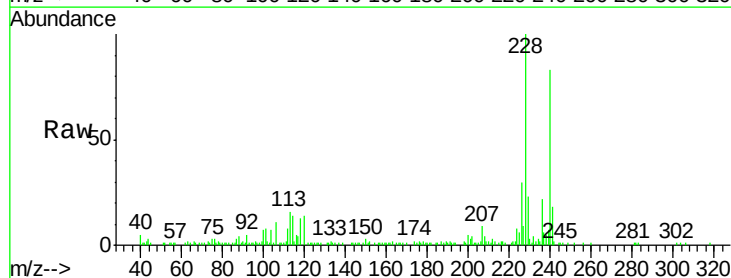
RT: 21.67 min Scan# 3205

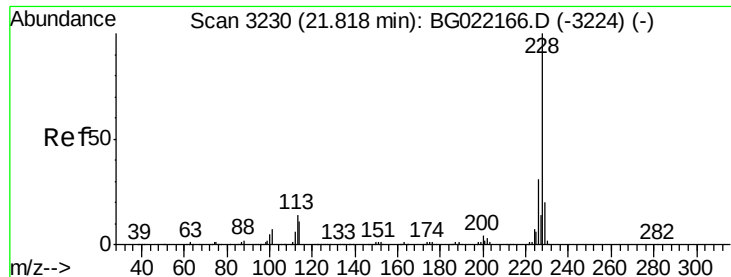
Delta R.T. -0.05 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 58756 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.3  | 22.6  | 34.0  |
| 229       | 23.3  | 16.1  | 24.1  |





#82

Chrysene

Concen: 6.78 ng

RT: 21.73 min Scan# 3216

Delta R.T. -0.05 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

Instrument :

BNA\_G

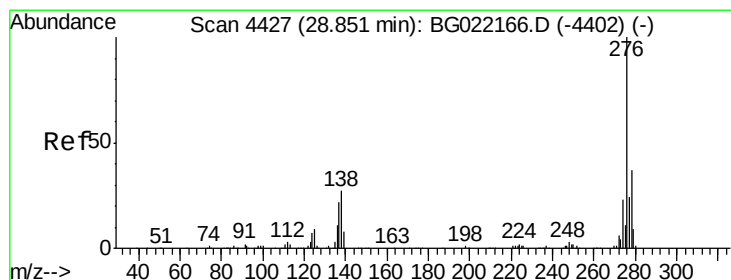
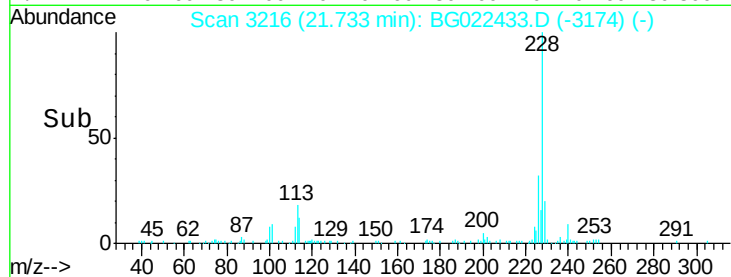
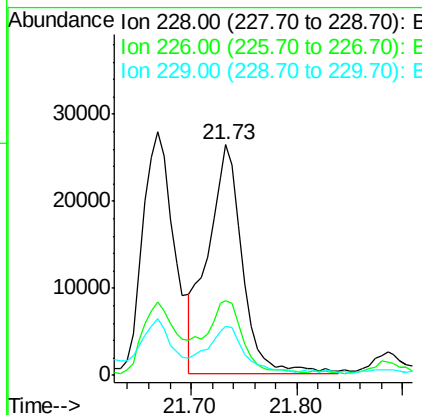
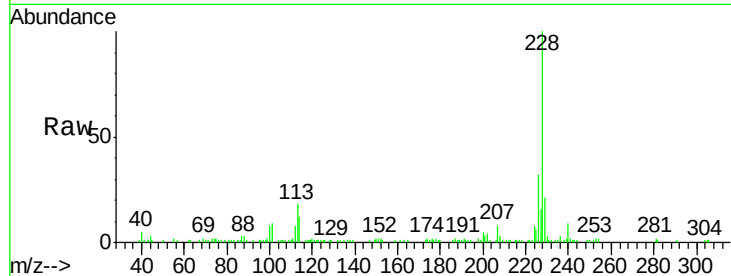
ClientSampleId :

STA-1045-(0-4)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 59746 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 32.1  | 25.4  | 38.0  |
| 229       | 21.3  | 15.9  | 23.9  |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 3.05 ng

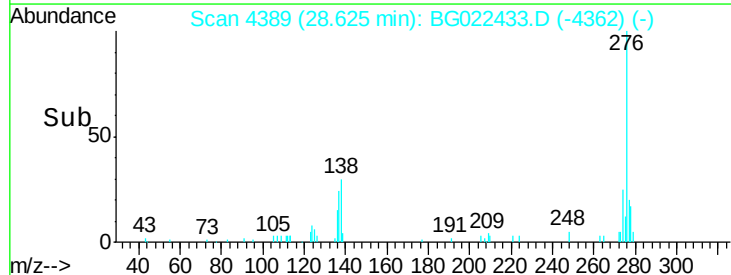
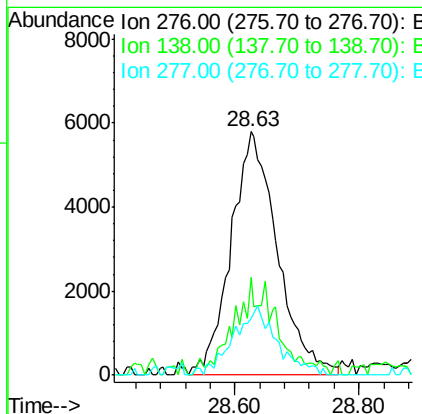
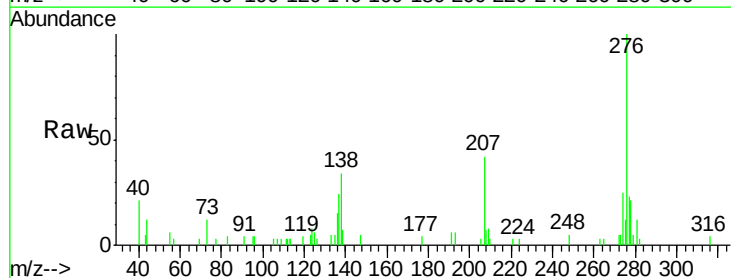
RT: 28.63 min Scan# 4389

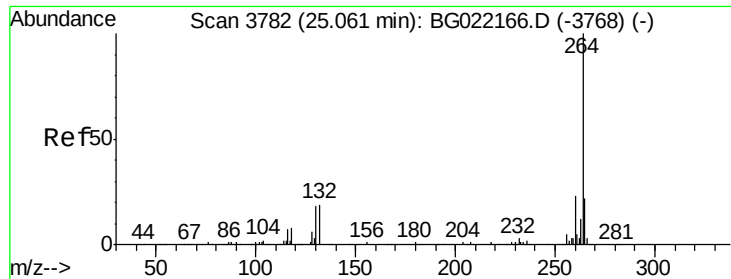
Delta R.T. -0.14 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 30197 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 15.7  | 14.0  | 21.0  |
| 277       | 26.2  | 20.6  | 30.8  |





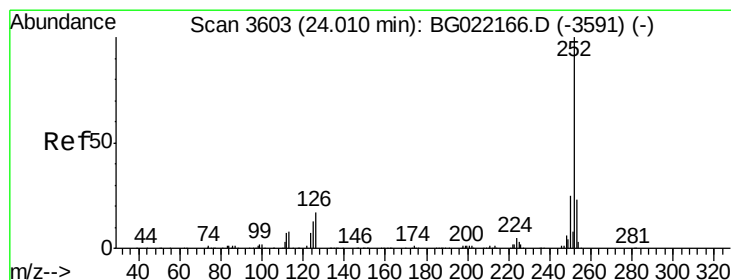
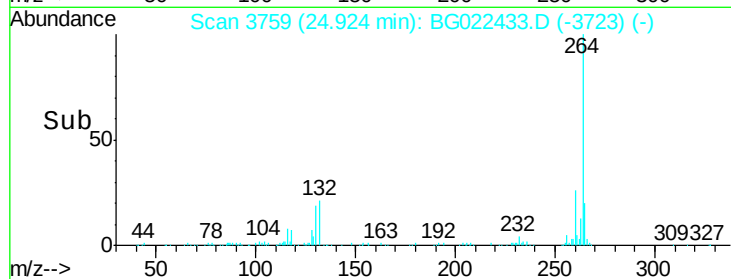
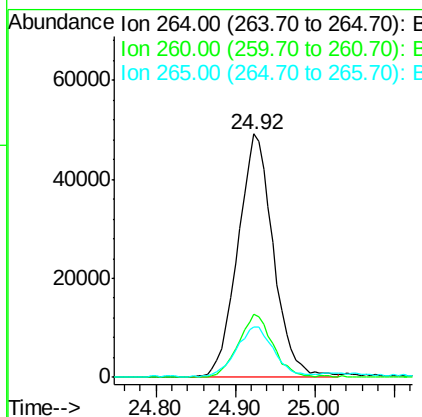
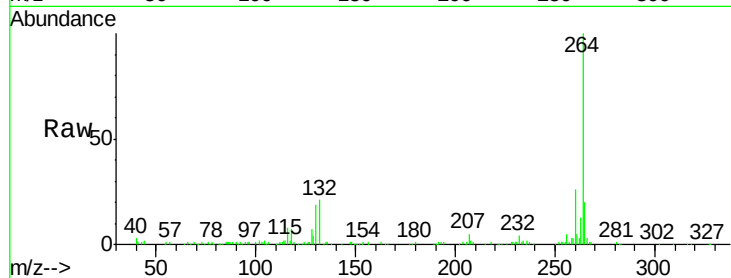
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 24.92 min Scan# 3759  
Delta R.T. -0.09 min  
Lab File: BG022433.D  
Acq: 18 Jun 2016 21:18

Instrument :  
BNA\_G  
ClientSampleId :  
STA-1045-(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.2  | 20.2  | 30.4  |
| 265     | 20.5  | 17.8  | 26.8  |

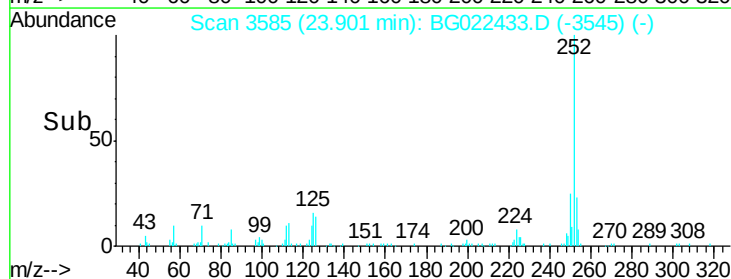
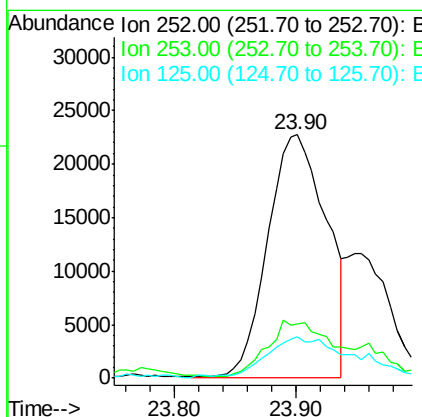
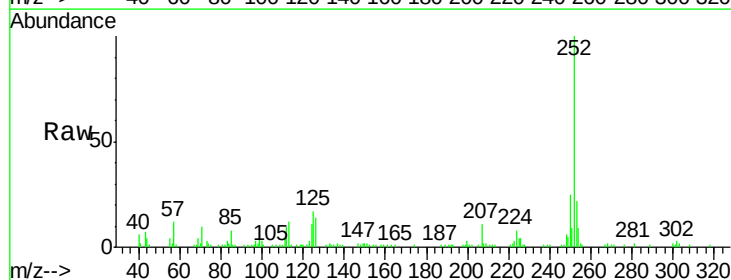
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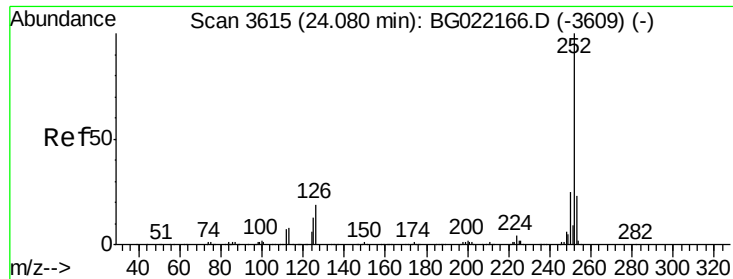
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#87  
Benzo(b)fluoranthene  
Concen: 8.57 ng m  
RT: 23.90 min Scan# 3585  
Delta R.T. -0.06 min  
Lab File: BG022433.D  
Acq: 18 Jun 2016 21:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.5  | 26.3  |
| 125     | 17.0  | 8.6   | 13.0  |





#88

Benzo(k)fluoranthene

Concen: 3.50 ng m

RT: 23.95 min Scan# 3593

Delta R.T. -0.09 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

Instrument :

BNA\_G

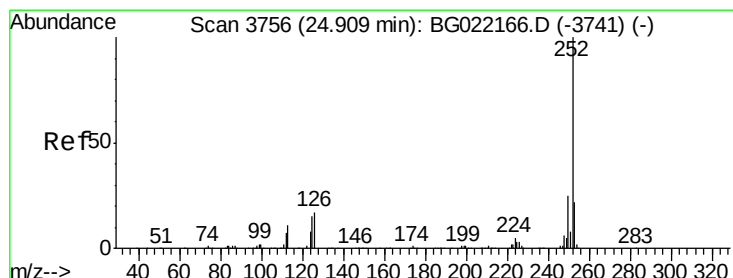
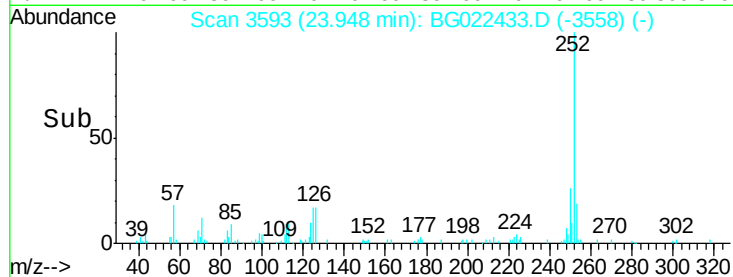
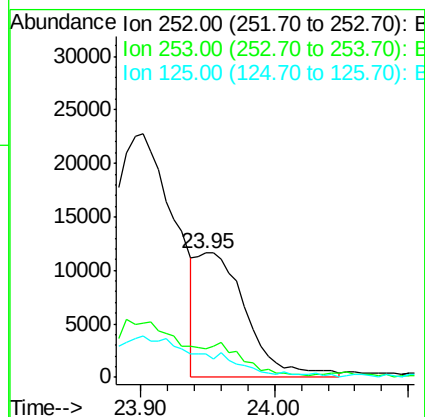
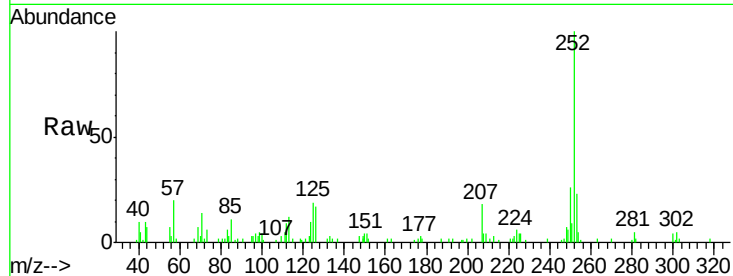
ClientSampleId :

STA-1045-(0-4)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 30788 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.8  | 17.8  | 26.8  |
| 125       | 18.6  | 8.3   | 12.5# |

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#89

Benzo(a)pyrene

Concen: 4.92 ng

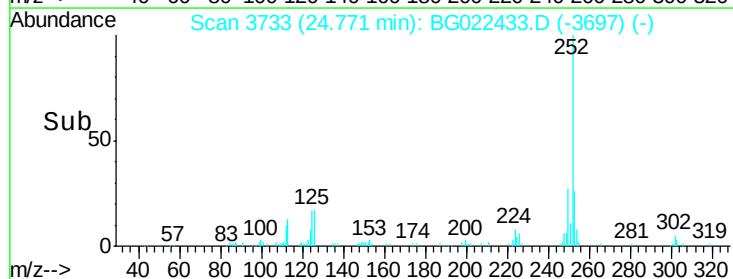
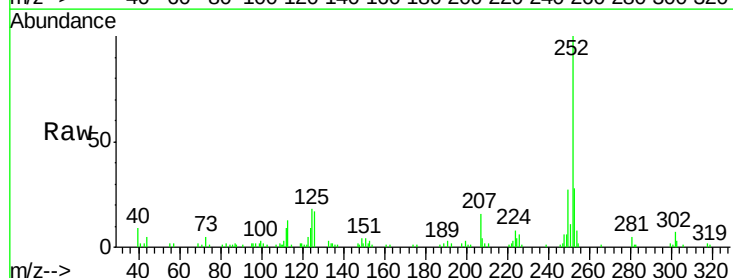
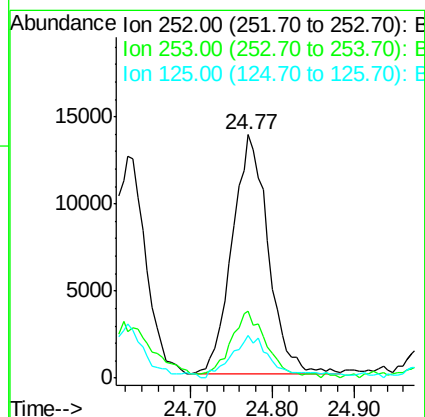
RT: 24.77 min Scan# 3733

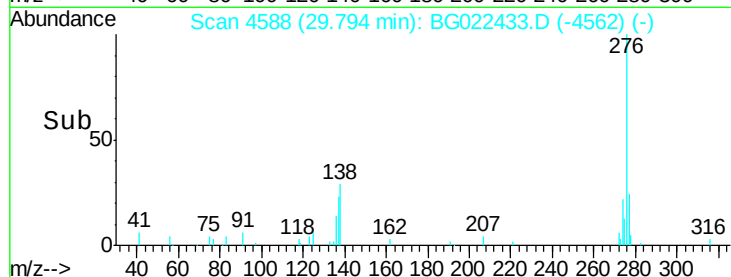
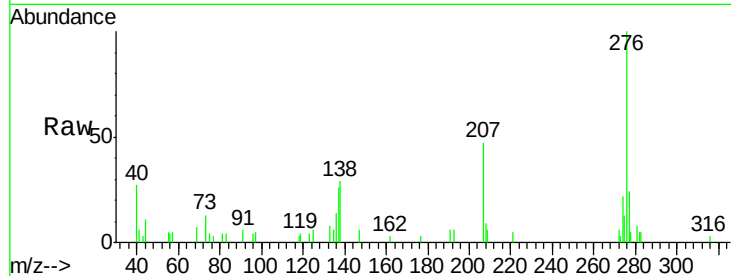
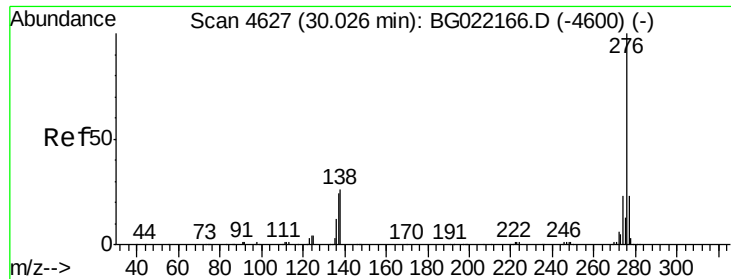
Delta R.T. -0.09 min

Lab File: BG022433.D

Acq: 18 Jun 2016 21:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 42033 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.5  | 17.1  | 25.7# |
| 125       | 17.7  | 9.6   | 14.4# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 3.39 ng  
 RT: 29.79 min Scan# 4588  
 Delta R.T. -0.15 min  
 Lab File: BG022433.D  
 Acq: 18 Jun 2016 21:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 STA-1045-(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.8  | 19.4  | 29.2  |
| 138     | 29.3  | 17.4  | 26.0  |

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