

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060615\  
 Data File : BG017533.D  
 Acq On : 7 Jun 2015 13:59  
 Operator : TP/IZ  
 Sample : G2457-13 2X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-7

Manual Integrations  
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Quant Time: Jun 08 08:15:59 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 04 01:31:15 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 26424    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.42 | 136  | 103665   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.29 | 164  | 61033    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.04 | 188  | 121482   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 21.24 | 240  | 139273   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 23.48 | 264  | 139271   | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.22  | 112  | 106892   | 71.27 | ng    | 0.00     |
| 7) Phenol-d6                | 6.84  | 99   | 140443   | 68.73 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.79  | 82   | 102426   | 49.32 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 15.80 | 330  | 52935    | 62.44 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 12.90 | 172  | 197493   | 48.81 | ng    | 0.00     |
| 78) Terphenyl-d14           | 19.68 | 244  | 242103   | 35.93 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 13.75 | 163  | 25681    | 4.83  | ng    | 99       |
| 57) Fluorene                | 15.34 | 166  | 11737    | 2.27  | ng    | # 90     |
| 70) Phenanthrene            | 17.09 | 178  | 143521   | 21.19 | ng    | 97       |
| 71) Anthracene              | 17.18 | 178  | 35538    | 5.25  | ng    | 95       |
| 74) Fluoranthene            | 19.11 | 202  | 189043   | 21.34 | ng    | 99       |
| 77) Pyrene                  | 19.47 | 202  | 169349   | 19.74 | ng    | 98       |
| 80) Benzo(a)anthracene      | 21.22 | 228  | 90646    | 10.58 | ng    | 97       |
| 82) Chrysene                | 21.27 | 228  | 76952    | 9.92  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 25.75 | 276  | 35479    | 3.64  | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 22.81 | 252  | 96916    | 10.98 | ng    | # 97     |
| 88) Benzo(k)fluoranthene    | 22.84 | 252  | 31571m   | 3.74  | ng    |          |
| 89) Benzo(a)pyrene          | 23.38 | 252  | 74465    | 9.20  | ng    | 96       |
| 91) Benzo(g,h,i)perylene    | 26.46 | 276  | 32322    | 4.04  | ng    | 96       |

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

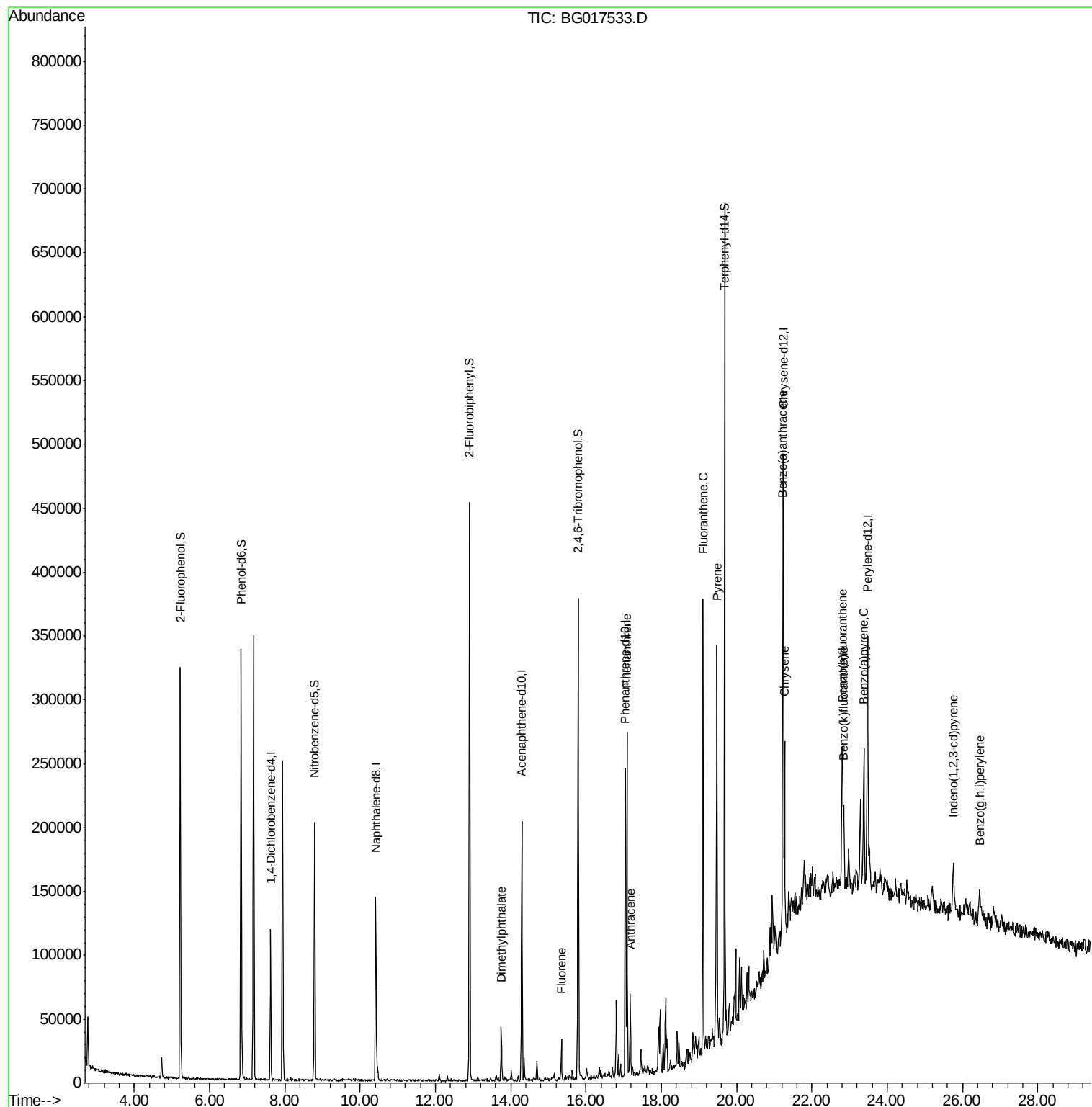
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060615\  
Data File : BG017533.D  
Acq On : 7 Jun 2015 13:59  
Operator : TP/IZ  
Sample : G2457-13 2X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

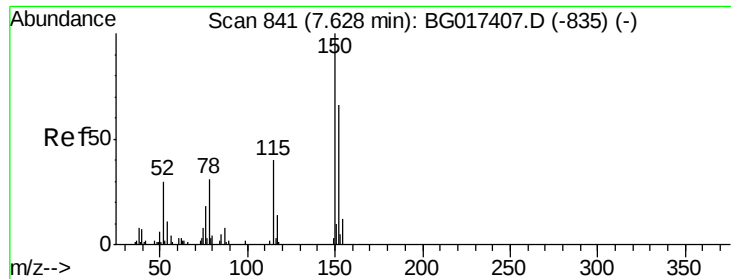
Instrument :  
BNA\_G  
ClientSampleId :  
SP-7

Manual Integrations  
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Quant Time: Jun 08 08:15:59 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 04 01:31:15 2015  
Response via : Initial Calibration





#1

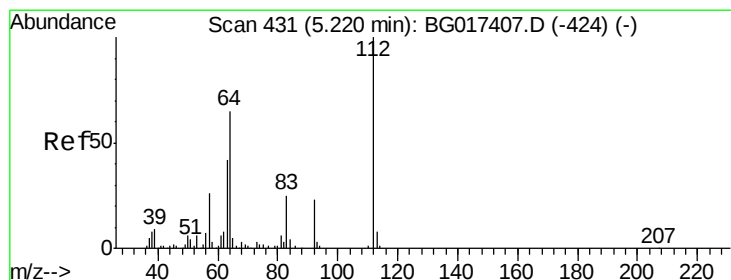
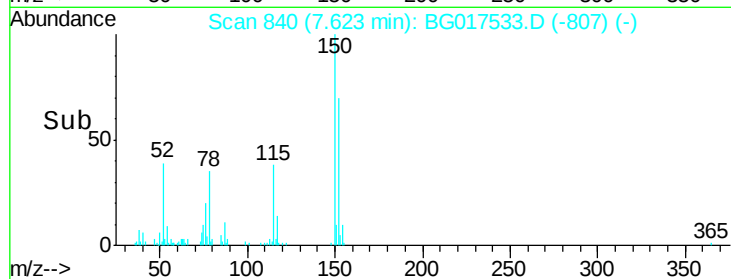
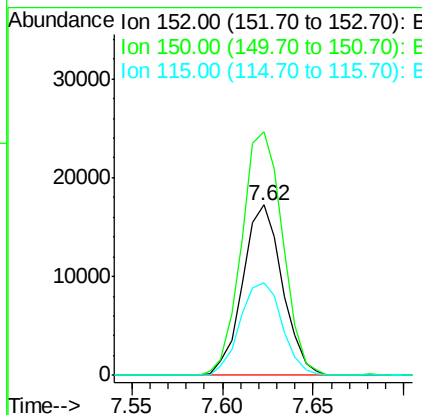
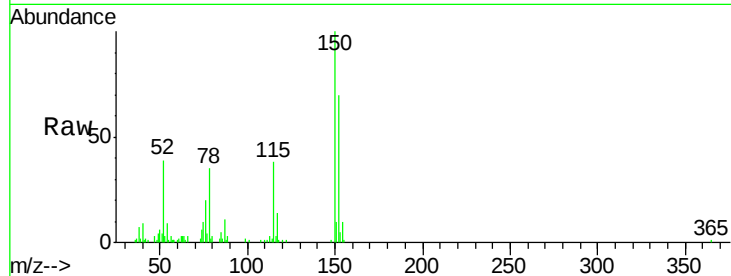
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.62 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 143.1 | 121.7 | 182.5 |
| 115     | 54.6  | 48.6  | 73.0  |

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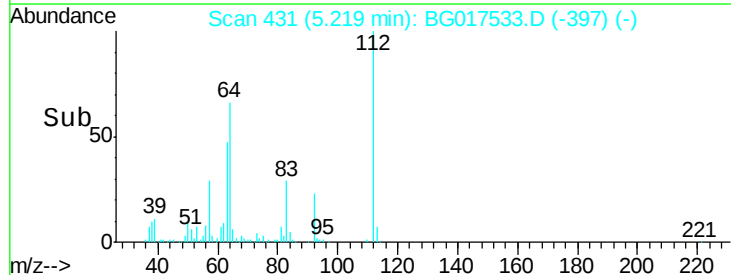
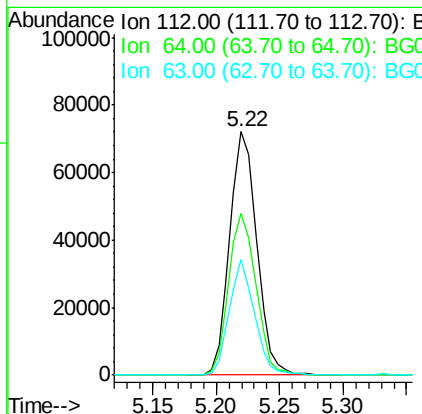
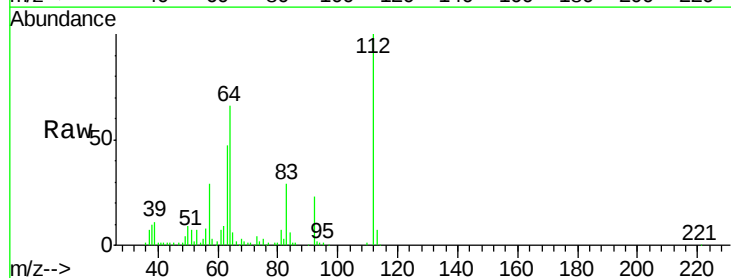
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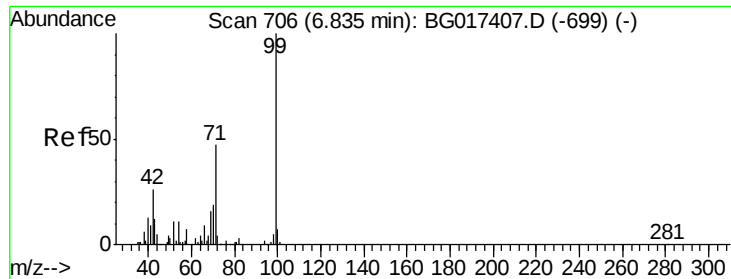


#5

2-Fluorophenol  
Concen: 71.27 ng  
RT: 5.22 min Scan# 431  
Delta R.T. -0.00 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.5  | 51.6  | 77.4  |
| 63      | 47.4  | 33.3  | 49.9  |





#7

Phenol-d6

Concen: 68.73 ng

RT: 6.84 min Scan# 706

Delta R.T. -0.00 min

Lab File: BG017533.D

Acq: 7 Jun 2015 13:59

Instrument :

BNA\_G

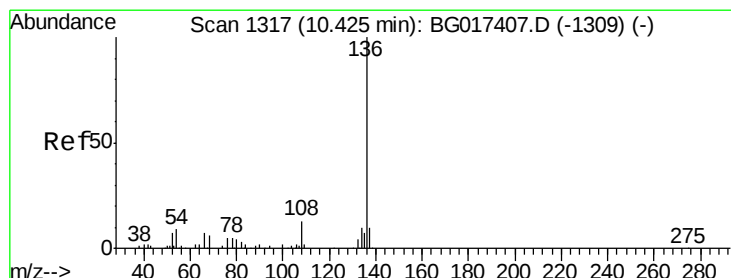
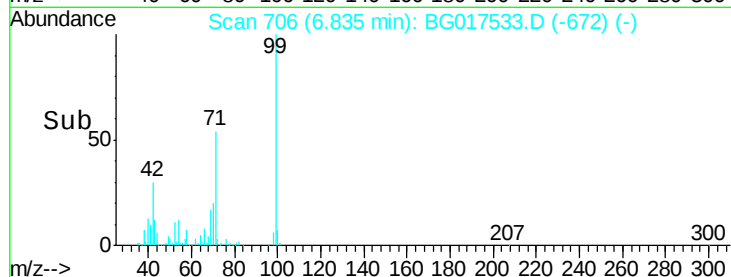
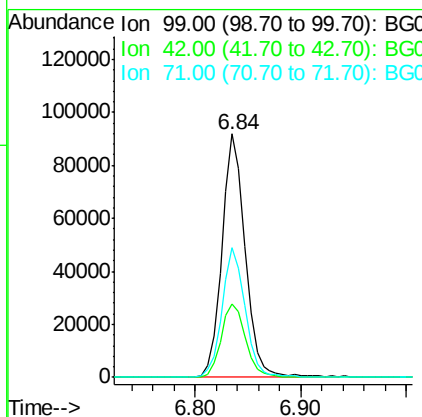
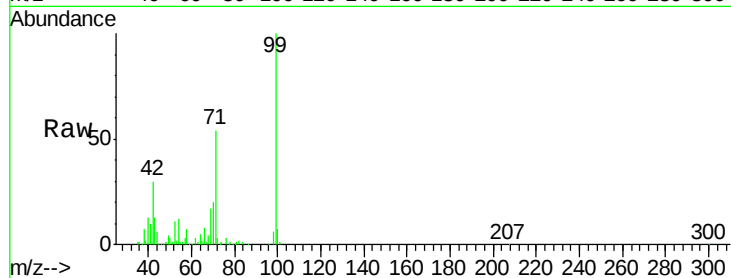
ClientSampleId :

SP-7

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 140443 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 30.0  | 21.0  | 31.6   |
| 71        | 53.5  | 37.2  | 55.8   |

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#21

Naphthalene-d8

Concen: 20.00 ng

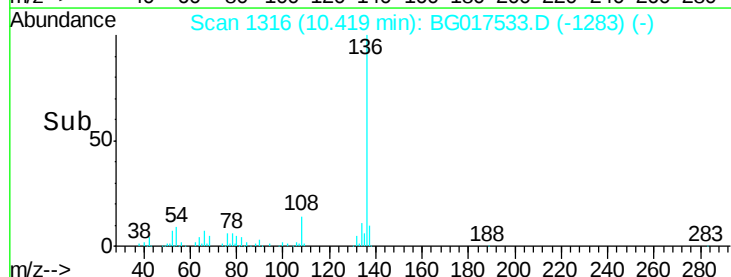
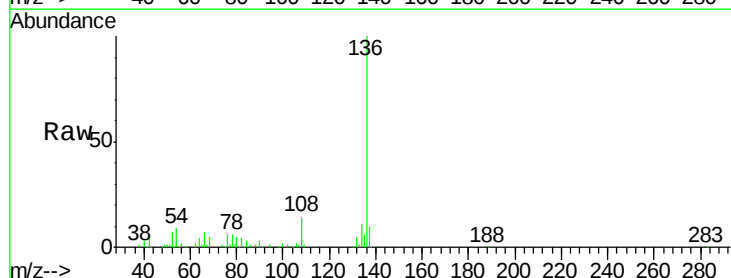
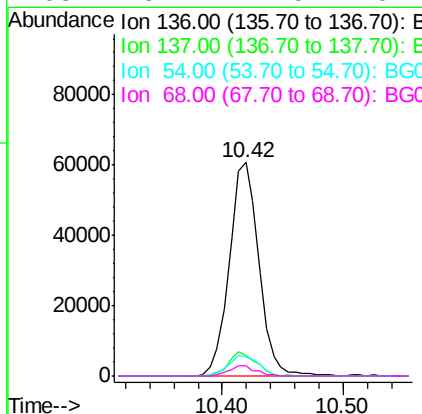
RT: 10.42 min Scan# 1316

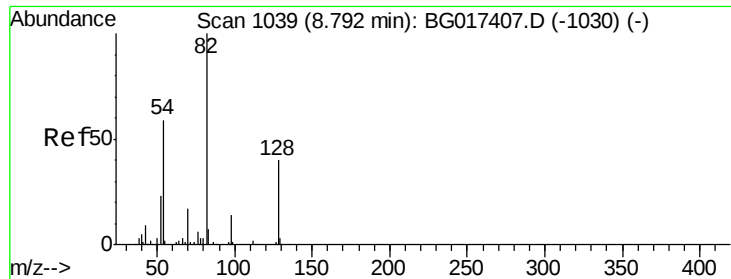
Delta R.T. -0.01 min

Lab File: BG017533.D

Acq: 7 Jun 2015 13:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 103665 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 9.7   | 7.9   | 11.9   |
| 54        | 8.8   | 7.2   | 10.8   |
| 68        | 5.1   | 4.5   | 6.7    |





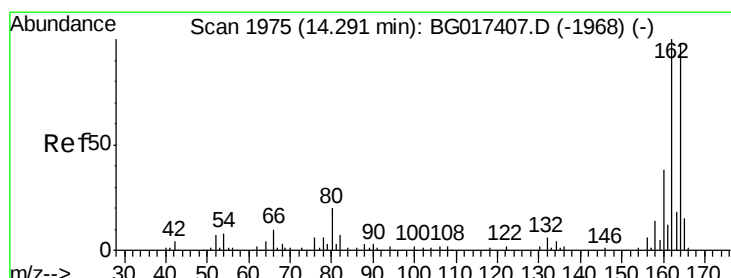
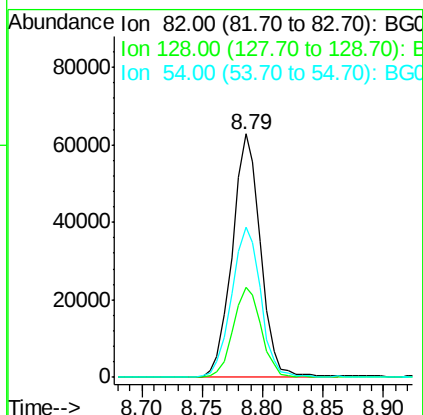
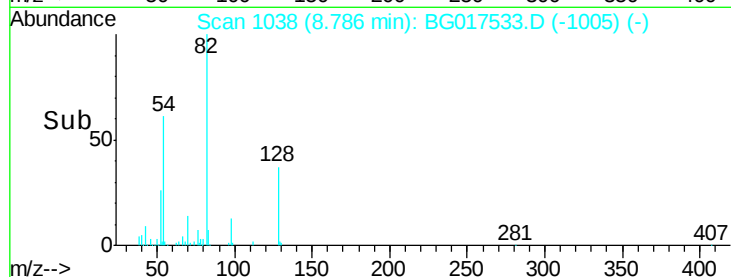
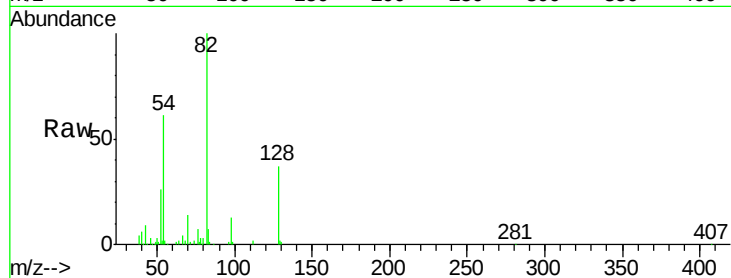
#23  
Nitrobenzene-d5  
Concen: 49.32 ng  
RT: 8.79 min Scan# 1038  
Delta R.T. -0.01 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.1  | 32.2  | 48.4  |
| 54      | 61.5  | 47.4  | 71.2  |

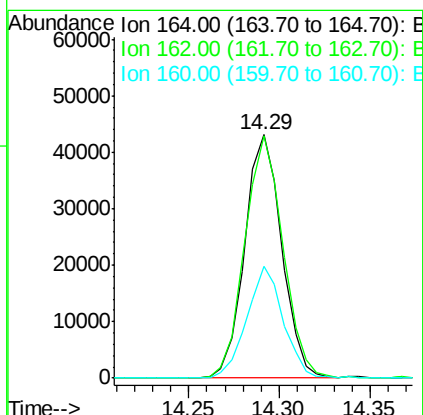
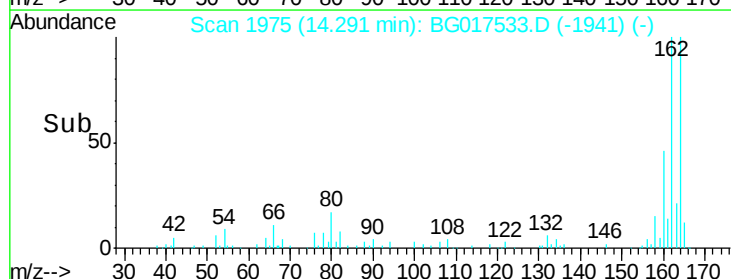
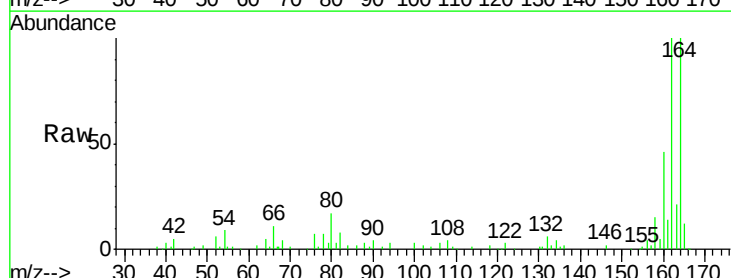
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.29 min Scan# 1975  
Delta R.T. -0.00 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.5  | 81.8  | 122.6 |
| 160     | 45.7  | 31.0  | 46.4  |





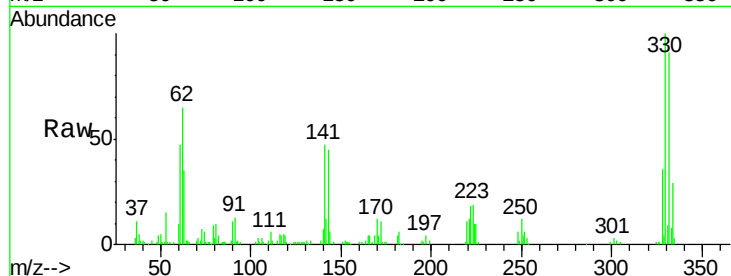
#41  
 2,4,6-Tribromophenol  
 Concen: 62.44 ng  
 RT: 15.80 min Scan# 2231  
 Delta R.T. -0.00 min  
 Lab File: BG017533.D  
 Acq: 7 Jun 2015 13:59

Instrument :  
 BNA\_G  
 ClientSampled :  
 SP-7

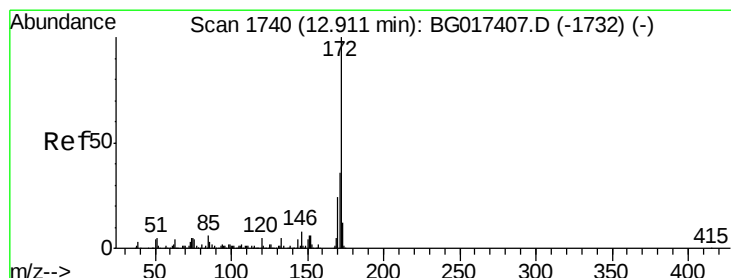
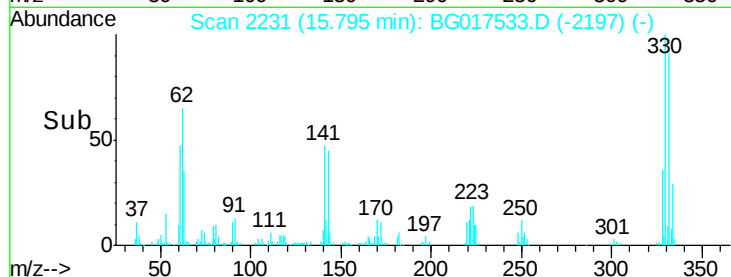
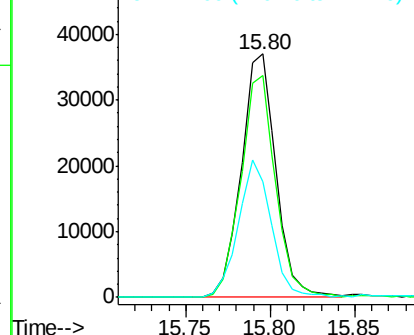
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 52935 |       |       |
| 332     | 91.2  | 75.9  | 113.9 |       |
| 141     | 53.6  | 40.2  | 60.4  |       |

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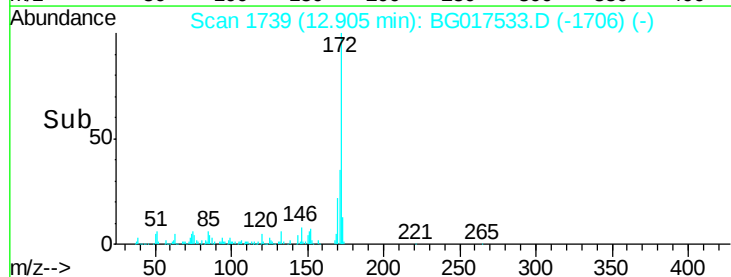
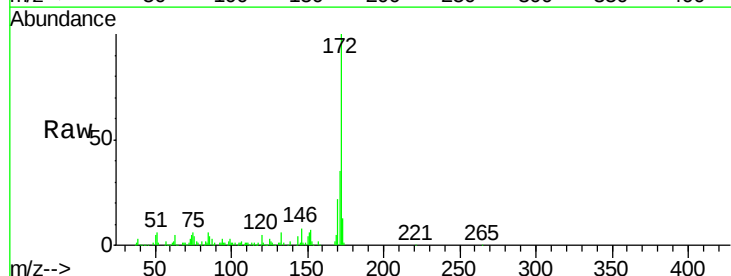
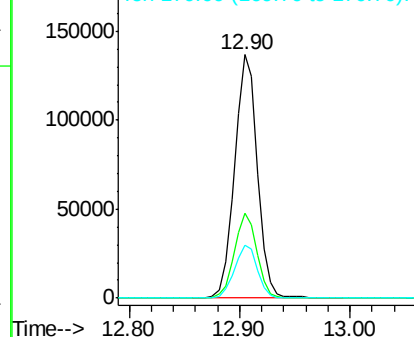
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 48.81 ng  
 RT: 12.90 min Scan# 1739  
 Delta R.T. -0.01 min  
 Lab File: BG017533.D  
 Acq: 7 Jun 2015 13:59

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 197493 |       |       |
| 171     | 35.0  | 29.0   | 43.6  |       |
| 170     | 21.9  | 18.9   | 28.3  |       |

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





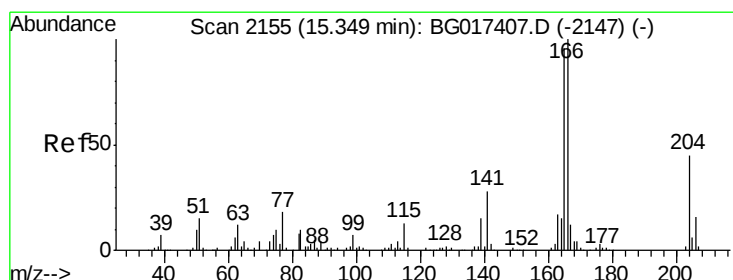
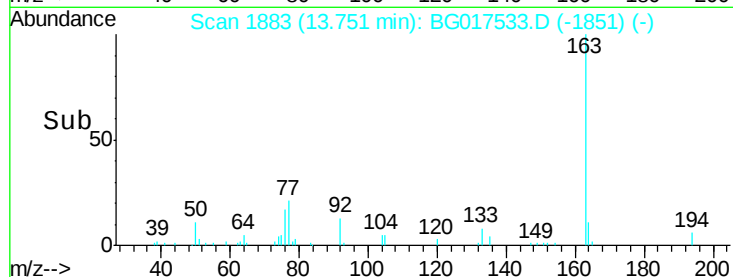
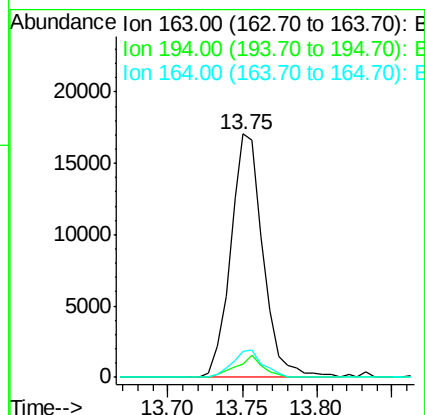
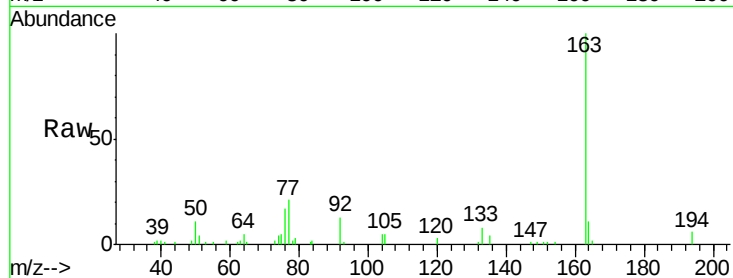
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Dimethylphthalate  
Concen: 4.83 ng  
RT: 13.75 min Scan# 1883  
Delta R.T. -0.01 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 25681 |       |       |
| 194     | 5.5   |       | 4.9   | 7.3   |
| 164     | 10.5  |       | 8.2   | 12.2  |

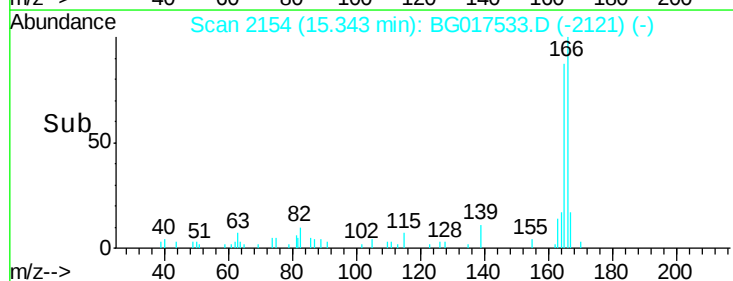
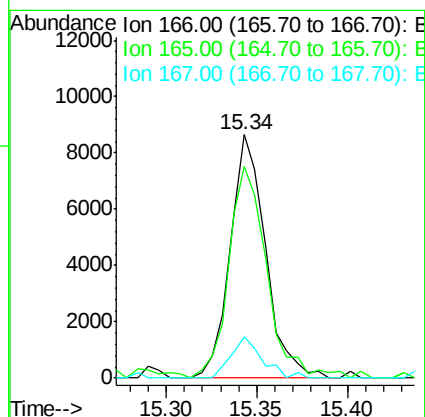
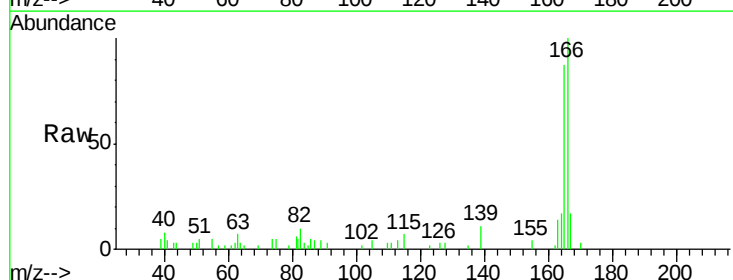
Manual Integrations  
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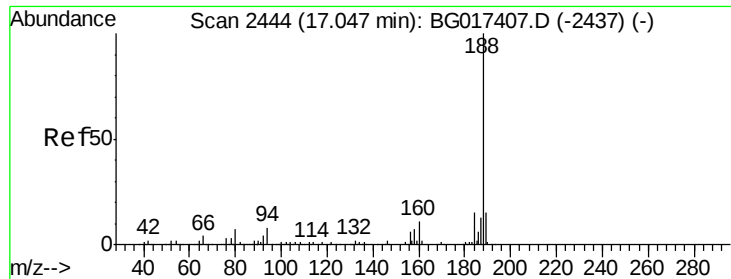
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#57  
Fluorene  
Concen: 2.27 ng  
RT: 15.34 min Scan# 2154  
Delta R.T. -0.01 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 11737 |       |       |
| 165     | 86.7  |       | 76.8  | 115.2 |
| 167     | 16.8  |       | 9.9   | 14.9# |





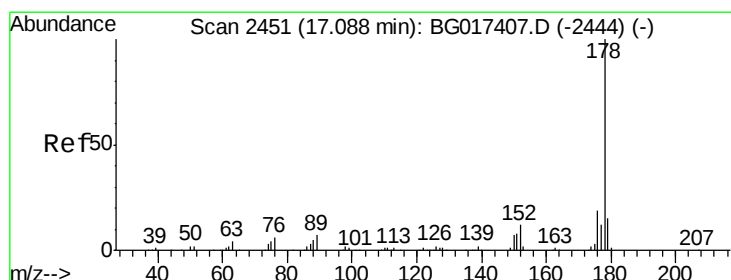
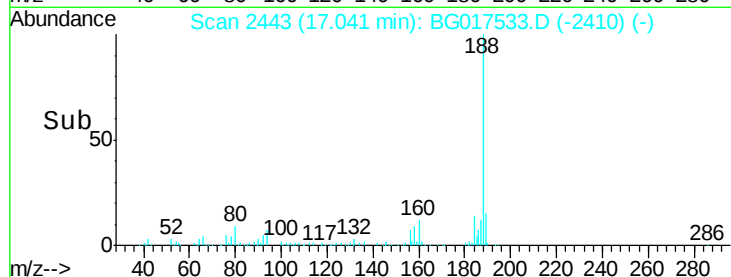
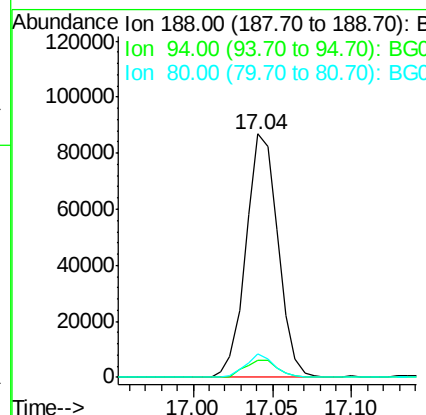
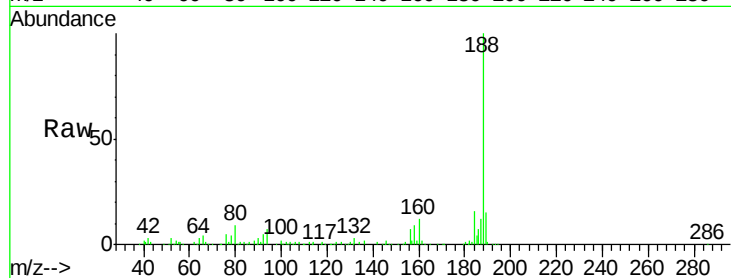
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.04 min Scan# 2443  
Delta R.T. -0.01 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

Instrument :  
BNA\_G  
ClientSampled :  
SP-7

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 6.8   | 6.3        | 9.5        |
| 80      | 9.5   | 5.2        | 7.8        |

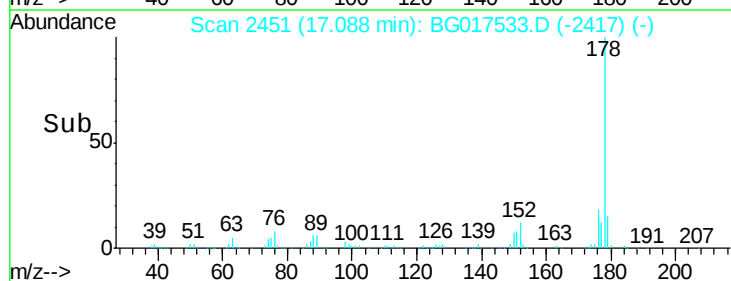
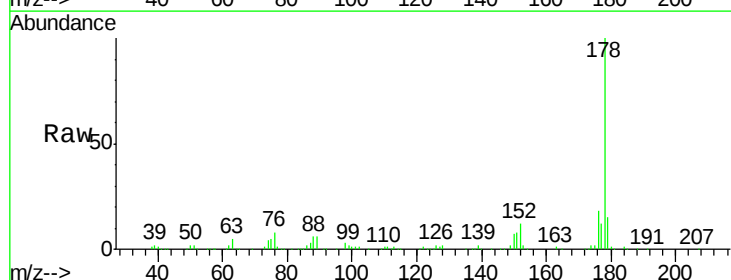
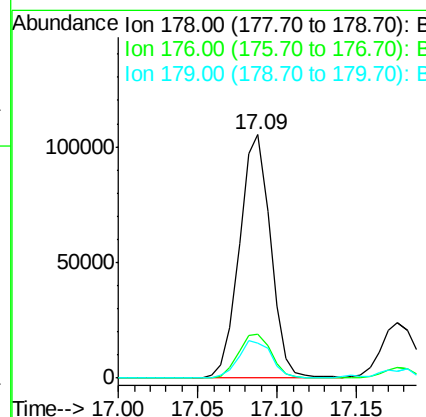
Manual Integrations  
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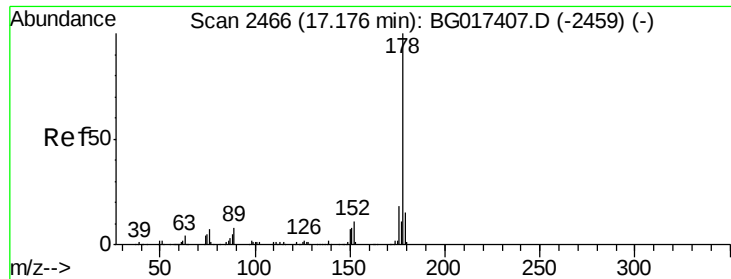
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#70  
Phenanthrene  
Concen: 21.19 ng  
RT: 17.09 min Scan# 2451  
Delta R.T. -0.00 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 176     | 17.8  | 15.6       | 23.4       |
| 179     | 14.6  | 12.2       | 18.2       |





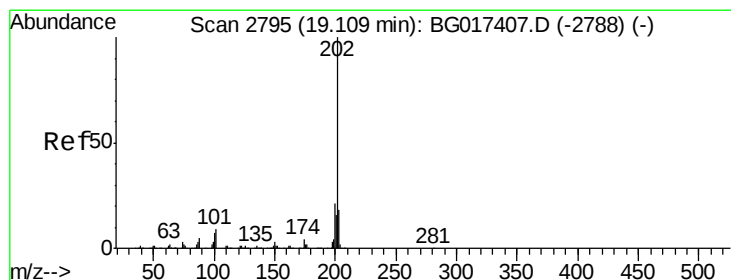
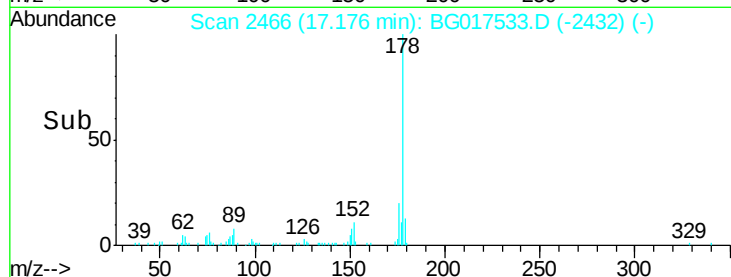
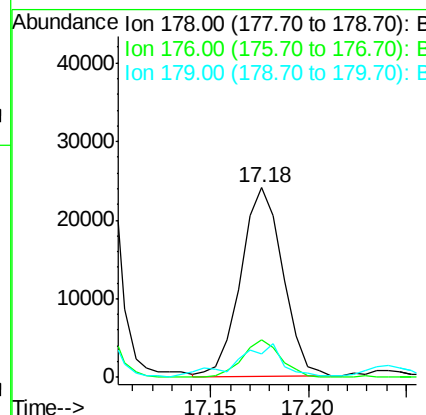
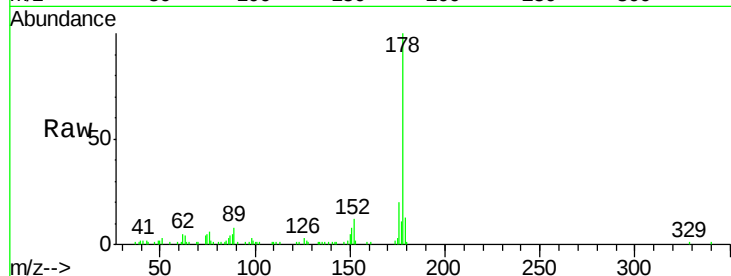
#71  
 Anthracene  
 Concen: 5.25 ng  
 RT: 17.18 min Scan# 2466  
 Delta R.T. -0.00 min  
 Lab File: BG017533.D  
 Acq: 7 Jun 2015 13:59

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 14.2  | 21.2  |
| 179     | 12.5  | 12.2  | 18.4  |

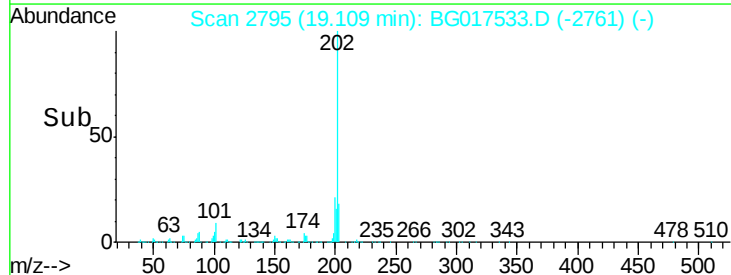
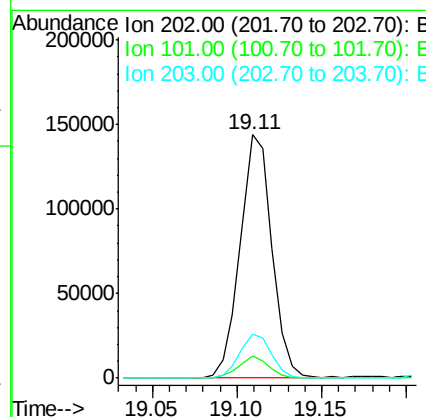
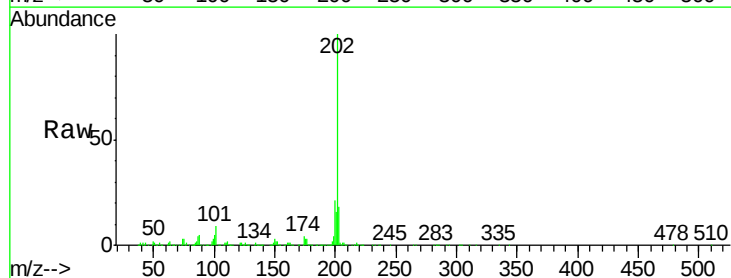
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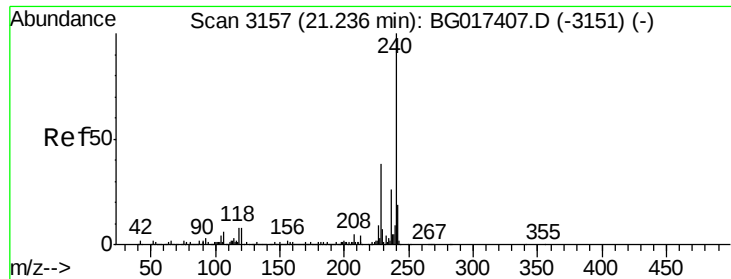
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#74  
 Fluoranthene  
 Concen: 21.34 ng  
 RT: 19.11 min Scan# 2795  
 Delta R.T. -0.00 min  
 Lab File: BG017533.D  
 Acq: 7 Jun 2015 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.1   | 0.0   | 28.8  |
| 203     | 18.3  | 0.0   | 37.6  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.24 min Scan# 3158

Delta R.T. 0.01 min

Lab File: BG017533.D

Acq: 7 Jun 2015 13:59

Instrument :

BNA\_G

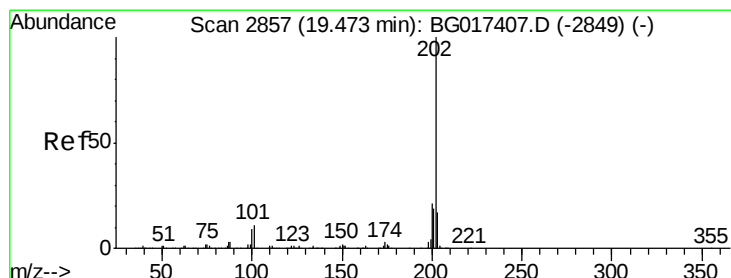
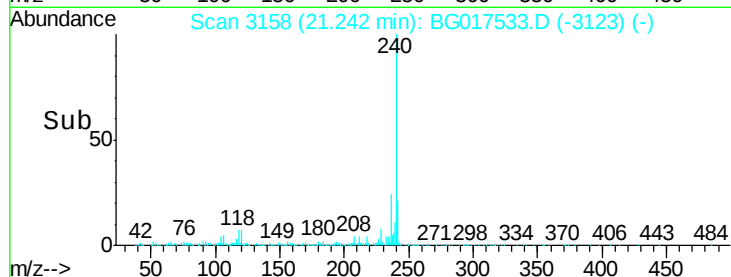
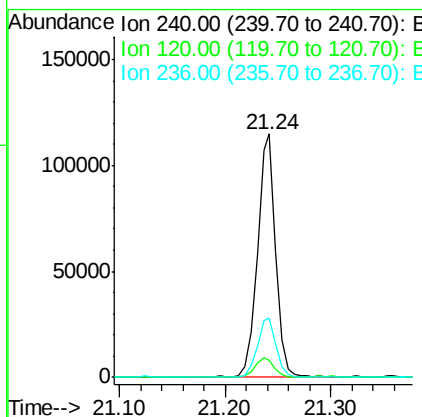
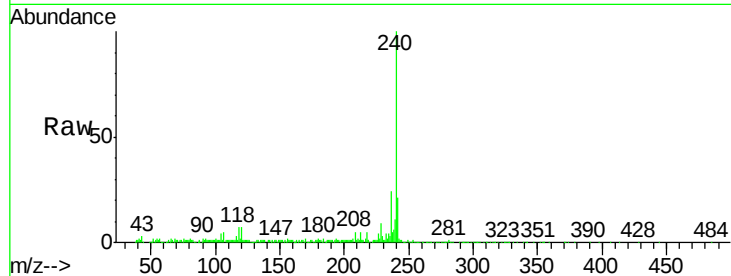
ClientSampleId :

SP-7

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 240   | Resp: | 139273 |
| Ion | Ratio | Lower | Upper |        |
| 240 | 100   |       |       |        |
| 120 | 7.2   | 6.5   | 9.7   |        |
| 236 | 24.4  | 20.8  | 31.2  |        |

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#77

Pyrene

Concen: 19.74 ng

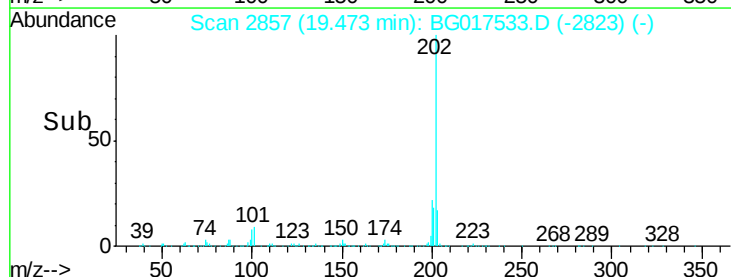
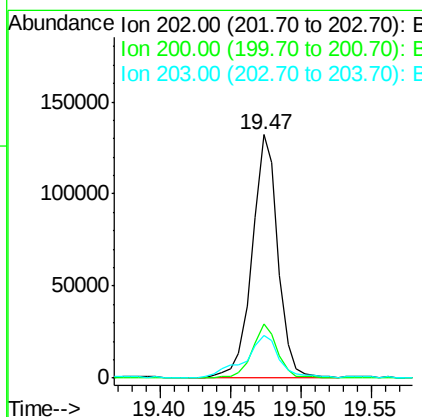
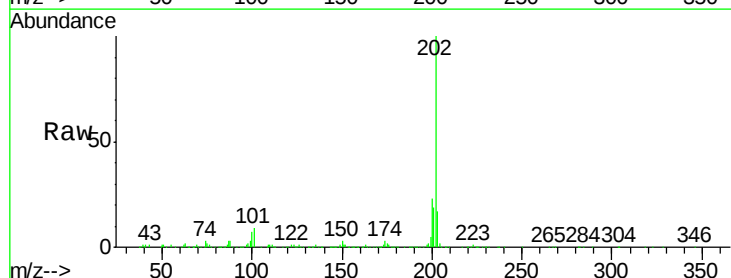
RT: 19.47 min Scan# 2857

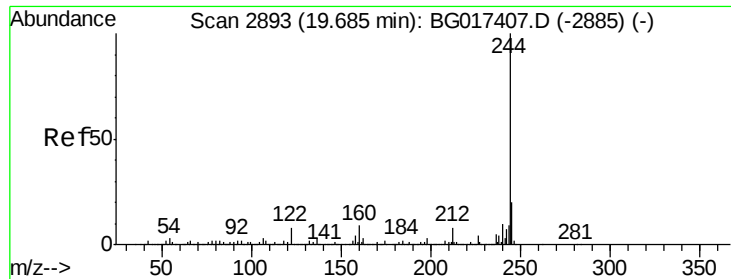
Delta R.T. -0.00 min

Lab File: BG017533.D

Acq: 7 Jun 2015 13:59

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 202   | Resp: | 169349 |
| Ion | Ratio | Lower | Upper |        |
| 202 | 100   |       |       |        |
| 200 | 22.5  | 17.0  | 25.4  |        |
| 203 | 17.3  | 13.9  | 20.9  |        |





#78

Terphenyl-d14

Concen: 35.93 ng

RT: 19.68 min Scan# 2893

Delta R.T. -0.00 min

Lab File: BG017533.D

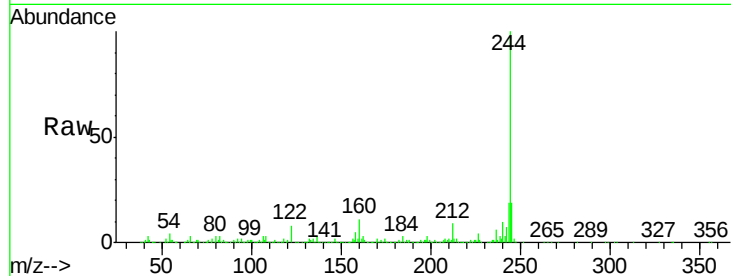
Acq: 7 Jun 2015 13:59

Instrument :

BNA\_G

ClientSampled :

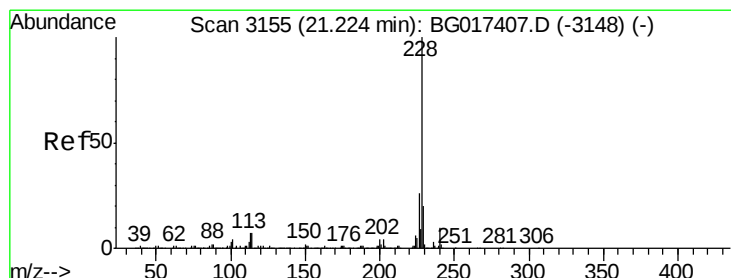
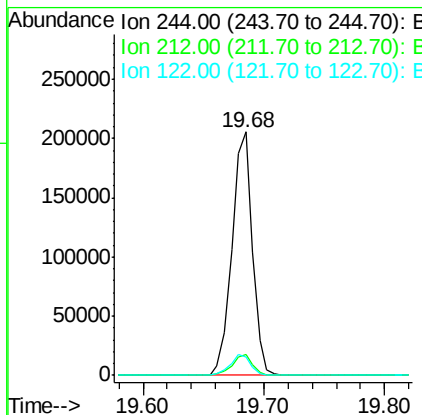
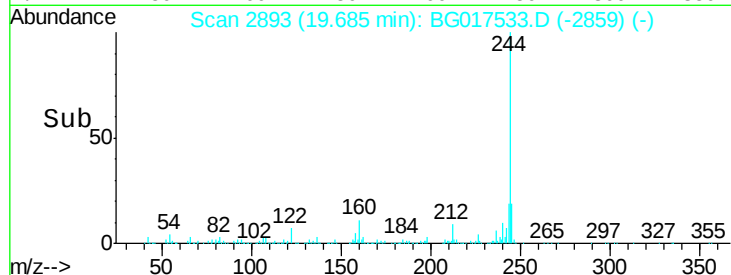
SP-7



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 242103 |       |       |
| 212     | 8.7   | 6.4    | 9.6   |       |
| 122     | 7.5   | 6.6    | 10.0  |       |

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#80

Benzo(a)anthracene

Concen: 10.58 ng

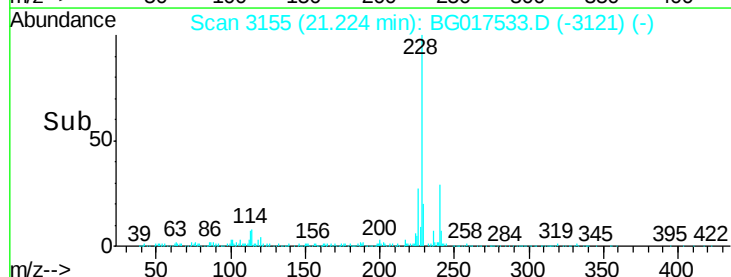
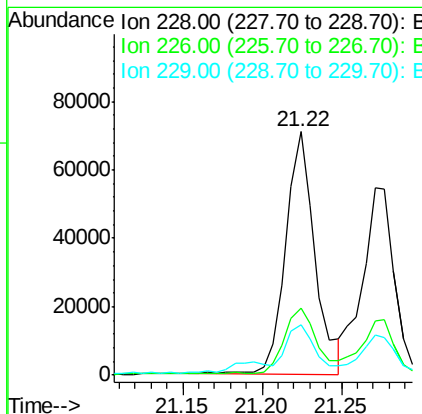
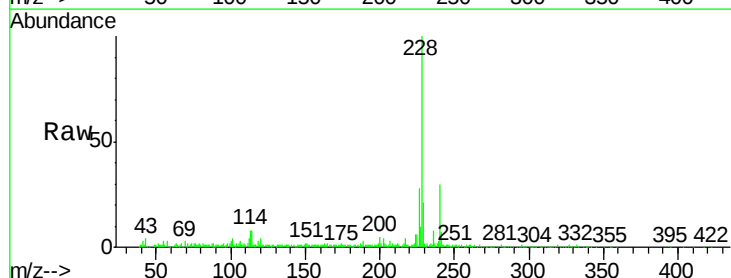
RT: 21.22 min Scan# 3155

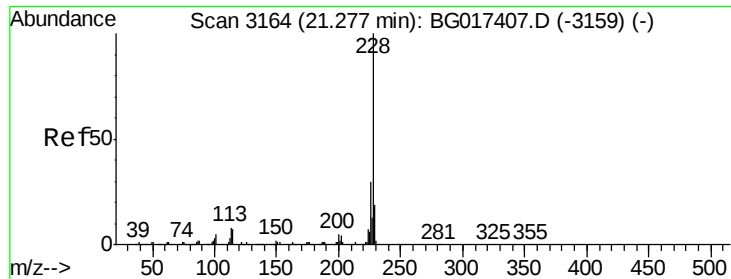
Delta R.T. -0.00 min

Lab File: BG017533.D

Acq: 7 Jun 2015 13:59

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 90646 |       |       |
| 226     | 27.8  | 21.0  | 31.6  |       |
| 229     | 20.7  | 15.7  | 23.5  |       |





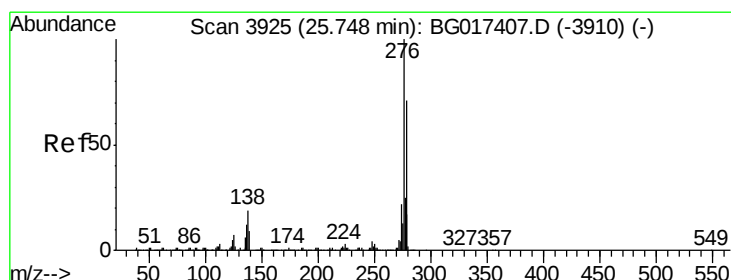
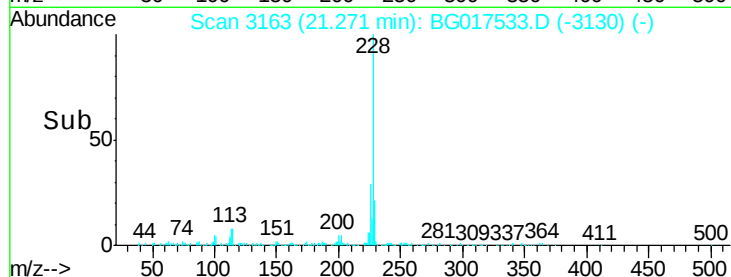
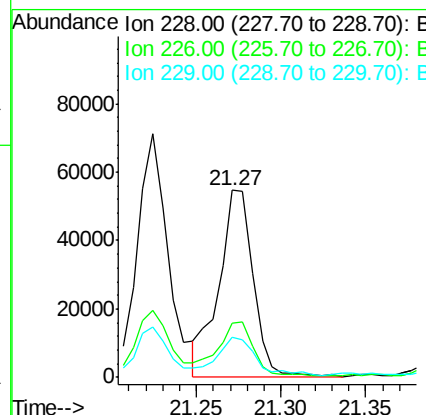
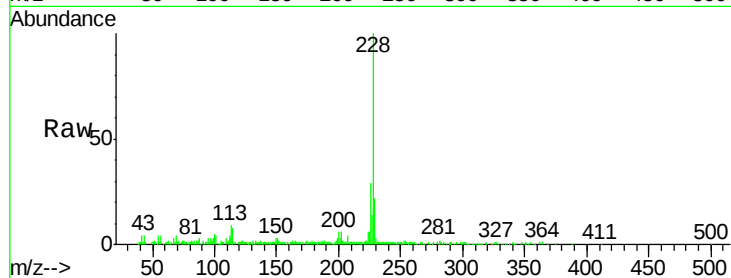
#82  
Chrysene  
Concen: 9.92 ng  
RT: 21.27 min Scan# 3163  
Delta R.T. -0.01 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.1  | 23.7  | 35.5  |
| 229     | 21.7  | 15.2  | 22.8  |

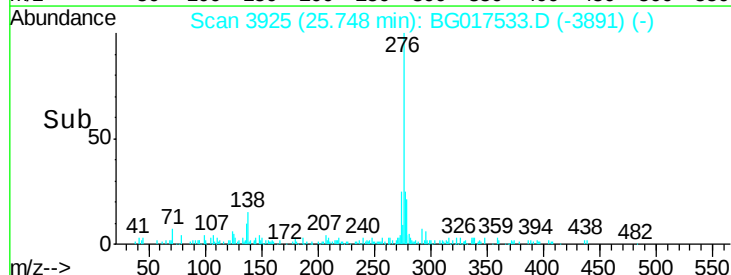
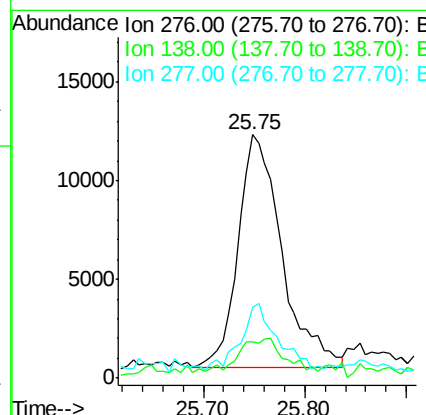
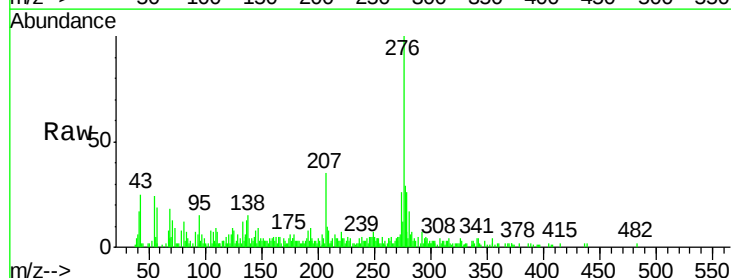
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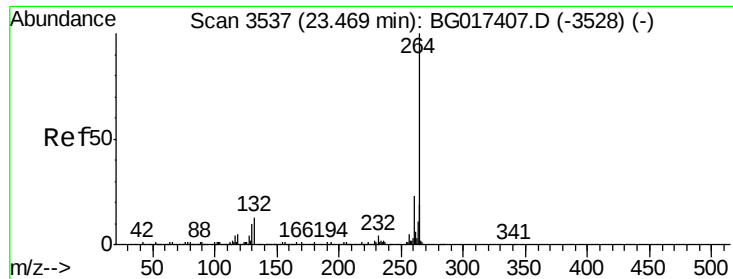
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#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.64 ng  
RT: 25.75 min Scan# 3925  
Delta R.T. -0.00 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.9  | 15.4  | 23.0  |
| 277     | 25.7  | 20.5  | 30.7  |





#86

Perylene-d12

Concen: 20.00 ng

RT: 23.48 min Scan# 3539

Delta R.T. 0.01 min

Lab File: BG017533.D

Acq: 7 Jun 2015 13:59

Instrument :

BNA\_G

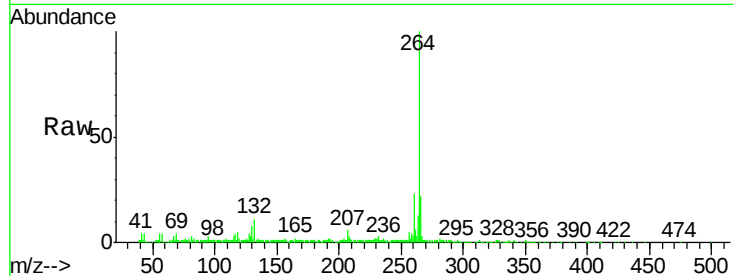
ClientSampled :

SP-7

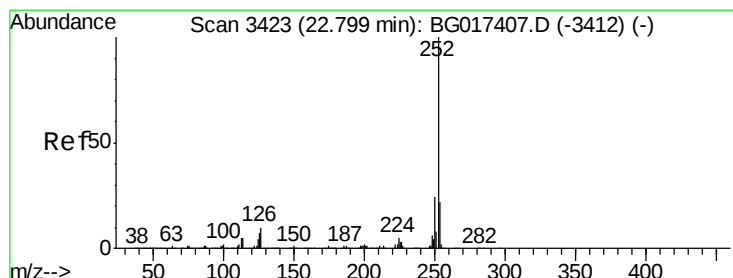
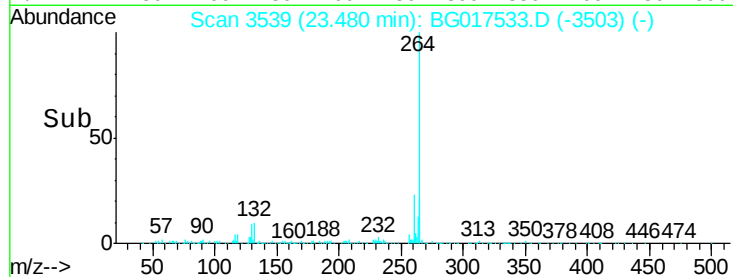
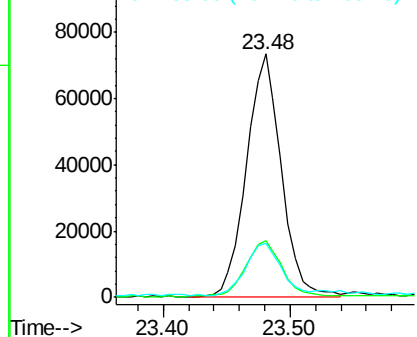
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 264  | Resp: | 139271 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 23.4 | 18.2  | 27.4   |
| 265       | 22.0 | 15.8  | 23.6   |

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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



#87

Benzo(b)fluoranthene

Concen: 10.98 ng

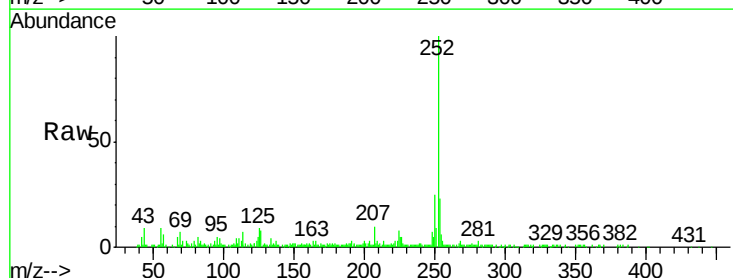
RT: 22.81 min Scan# 3425

Delta R.T. 0.01 min

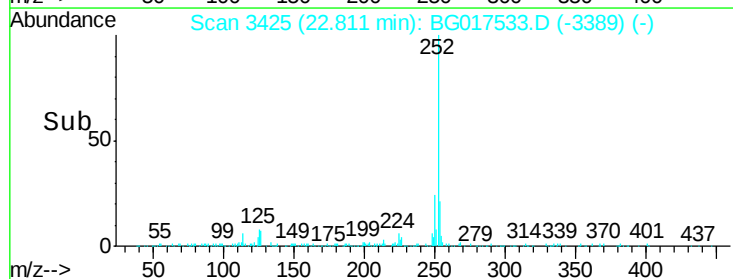
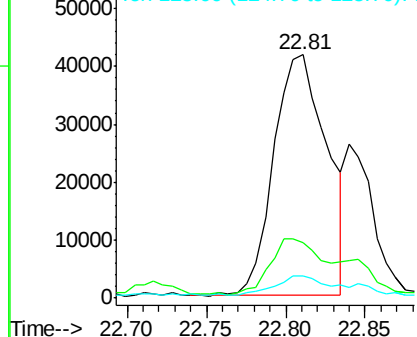
Lab File: BG017533.D

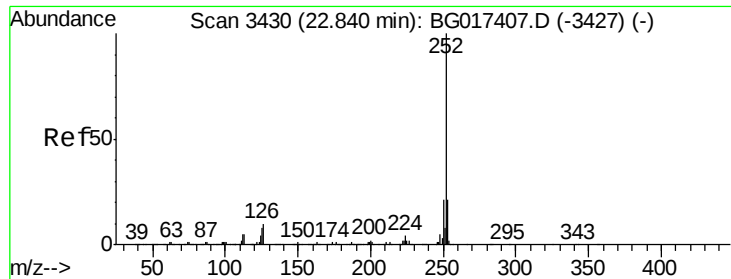
Acq: 7 Jun 2015 13:59

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 252  | Resp: | 96916 |
| Ion Ratio |      | Lower | Upper |
| 252       | 100  |       |       |
| 253       | 22.9 | 17.4  | 26.2  |
| 125       | 9.0  | 5.8   | 8.8#  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





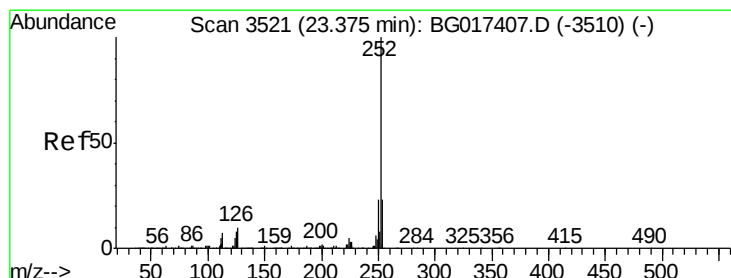
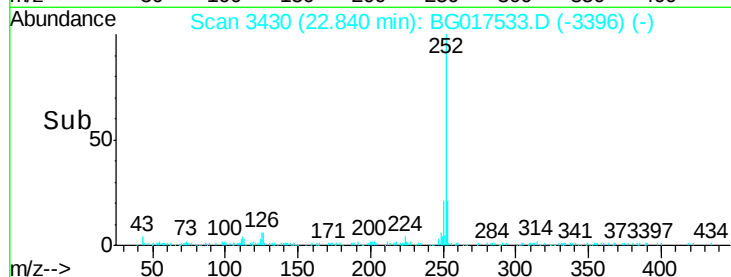
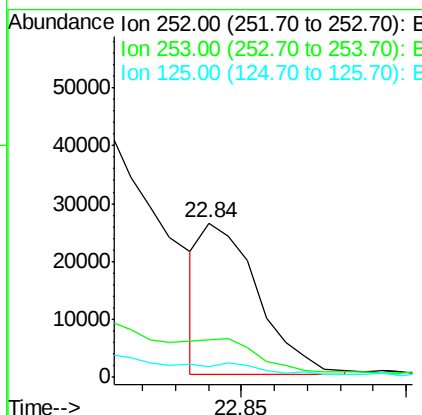
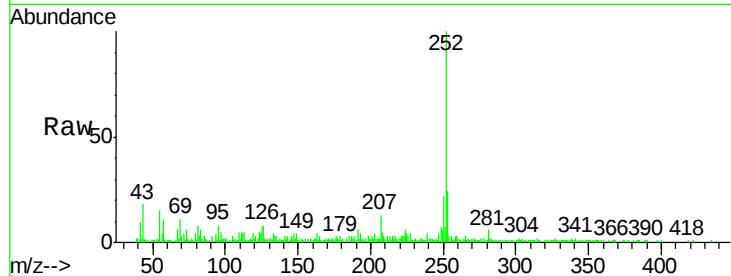
#88  
Benzo(k)fluoranthene  
Concen: 3.74 ng m  
RT: 22.84 min Scan# 3430  
Delta R.T. -0.00 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

Instrument :  
BNA\_G  
ClientSampled :  
SP-7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.7  | 26.5  |
| 125     | 7.3   | 6.5   | 9.7   |

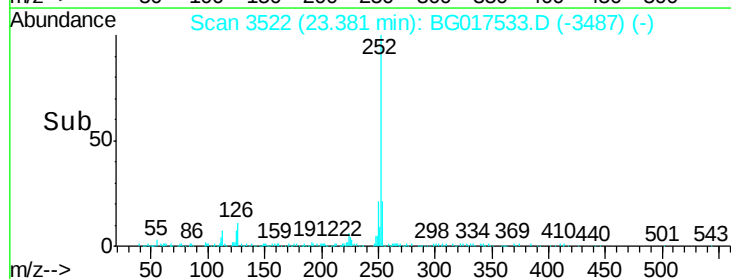
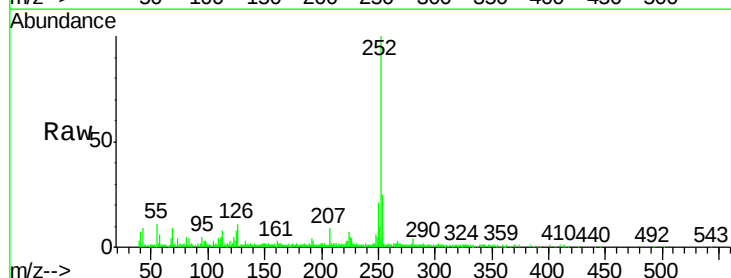
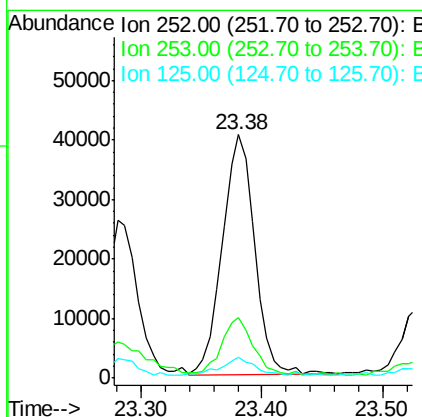
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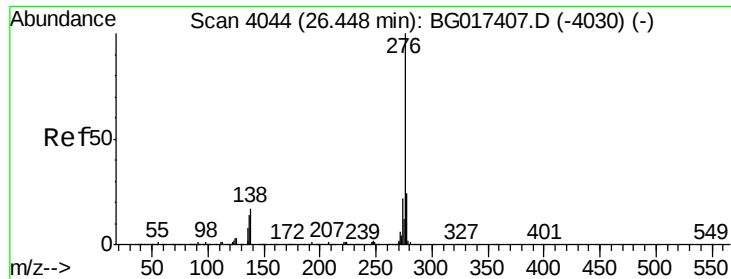
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#89  
Benzo(a)pyrene  
Concen: 9.20 ng  
RT: 23.38 min Scan# 3522  
Delta R.T. 0.01 min  
Lab File: BG017533.D  
Acq: 7 Jun 2015 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 18.1  | 27.1  |
| 125     | 8.4   | 6.5   | 9.7   |





#91  
 Benzo(g,h,i)perylene  
 Concen: 4.04 ng  
 RT: 26.46 min Scan# 4046  
 Delta R.T. 0.01 min  
 Lab File: BG017533.D  
 Acq: 7 Jun 2015 13:59

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-7

|     |       |      |       |       |
|-----|-------|------|-------|-------|
| Tgt | Ion   | 276  | Resp: | 32322 |
|     | Ratio | 100  | Lower | Upper |
|     | 276   | 100  |       |       |
|     | 277   | 27.5 | 19.2  | 28.8  |
|     | 138   | 16.8 | 13.5  | 20.3  |

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