

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061017\  
 Data File : BM010507.D  
 Acq On : 11 Jun 2017 04:10  
 Operator : SJ/MA  
 Sample : I3558-14  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C87

Manual Integrations  
 APPROVED

mohammad  
 6/12/2017 3:41:02 PM

Quant Time: Jun 12 08:45:27 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM052717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jun 12 07:08:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.89  | 152  | 191281   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.70 | 136  | 708742   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.53 | 164  | 501365   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.28 | 188  | 1280356  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.44 | 240  | 1618694  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.78 | 264  | 1592087  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.36  | 96  | 22418   | 4.81  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.07  | 99  | 390802  | 26.96 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.23  | 67  | 218577  | 26.83 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.43  | 132 | 336027  | 29.09 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.62  | 113 | 345398  | 29.53 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.08  | 128 | 155268  | 29.91 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.79  | 143 | 203981  | 33.92 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.32 | 165 | 436958  | 35.37 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.86 | 131 | 386667  | 32.44 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.95 | 166 | 1441020 | 34.59 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.23 | 160 | 1586064 | 32.64 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.77 | 143 | 178170  | 28.59 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.52 | 176 | 1244355 | 33.98 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.65 | 200 | 244650  | 26.98 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.37 | 188 | 2058906 | 33.05 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.67 | 212 | 2443612 | 36.51 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.63 | 264 | 2458425 | 33.17 | ng/ul | 0.00 |

## Target Compounds

|                          |       |     |         |        | Qvalue |     |
|--------------------------|-------|-----|---------|--------|--------|-----|
| 6) Phenol                | 7.10  | 94  | 136660  | 9.196  | ng/ul  | 90  |
| 11) 2-Methylphenol       | 8.35  | 108 | 60946   | 5.619  | ng/ul# | 73  |
| 16) 4-Methylphenol       | 8.68  | 108 | 159977  | 13.446 | ng/ul  | 99  |
| 24) 2,4-Dimethylphenol   | 9.87  | 107 | 124473  | 8.396  | ng/ul  | 99  |
| 28) Naphthalene          | 10.75 | 128 | 3319334 | 93.375 | ng/ul  | 99  |
| 34) 2-Methylnaphthalene  | 12.35 | 142 | 409442  | 15.191 | ng/ul  | 93  |
| 40) 1,1'-Biphenyl        | 13.36 | 154 | 122687  | 3.016  | ng/ul  | 93  |
| 44) Dimethylphthalate    | 13.99 | 163 | 598342  | 14.606 | ng/ul  | 99  |
| 49) Acenaphthene         | 14.59 | 153 | 361576  | 10.857 | ng/ul  | 98  |
| 53) Dibenzofuran         | 14.93 | 168 | 505281  | 10.260 | ng/ul  | 97  |
| 58) Fluorene             | 15.57 | 166 | 479692  | 11.875 | ng/ul  | 96  |
| 69) Phenanthrene         | 17.32 | 178 | 2536936 | 37.116 | ng/ul  | 99  |
| 71) Anthracene           | 17.41 | 178 | 749185  | 10.499 | ng/ul  | 98  |
| 72) Carbazole            | 17.70 | 167 | 481895  | 7.979  | ng/ul  | 100 |
| 74) Fluoranthene         | 19.33 | 202 | 1577579 | 18.769 | ng/ul# | 95  |
| 77) Pyrene               | 19.70 | 202 | 1073342 | 12.868 | ng/ul# | 94  |
| 80) Benzo(a)anthracene   | 21.43 | 228 | 345072  | 3.780  | ng/ul  | 92  |
| 82) Chrysene             | 21.48 | 228 | 253824  | 3.076  | ng/ul  | 99  |
| 85) Benzo(b)fluoranthene | 23.06 | 252 | 184764m | 1.994  | ng/ul  |     |
| 88) Benzo(a)pyrene       | 23.67 | 252 | 120763  | 1.315  | ng/ul# | 92  |

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

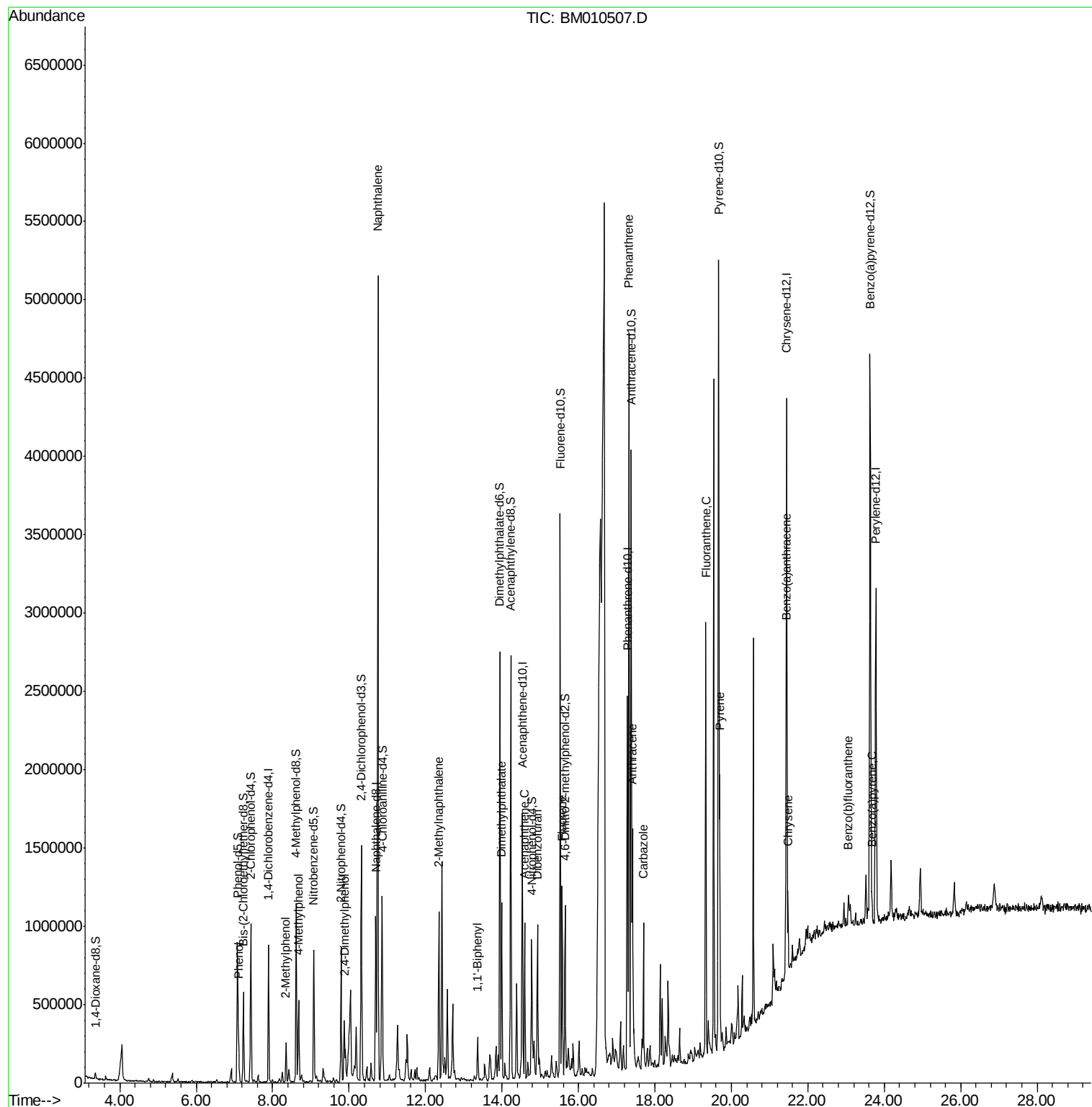
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061017\  
Data File : BM010507.D  
Acq On : 11 Jun 2017 04:10  
Operator : SJ/MA  
Sample : I3558-14  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

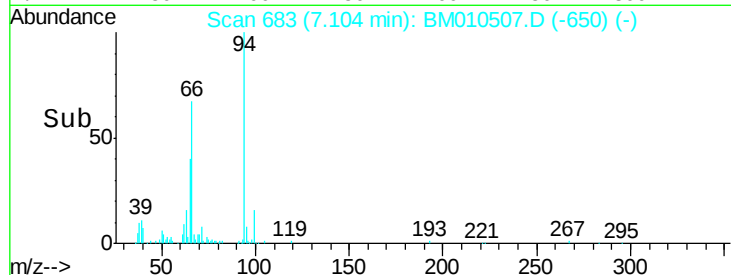
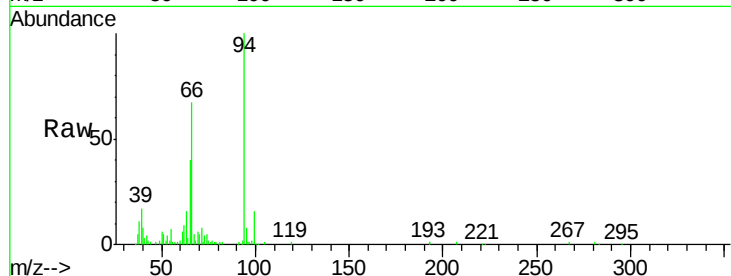
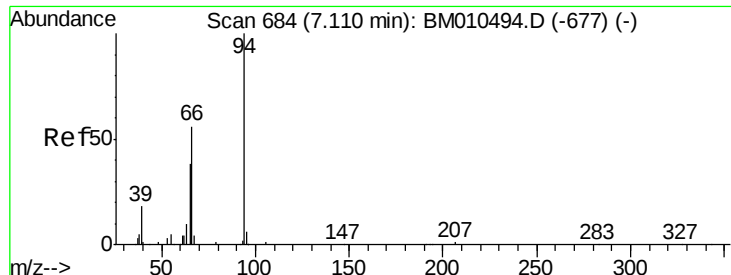
Instrument :  
BNA\_M  
ClientSampleId :  
F5C87

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Quant Time: Jun 12 08:45:27 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM052717.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jun 12 07:08:51 2017  
Response via : Initial Calibration





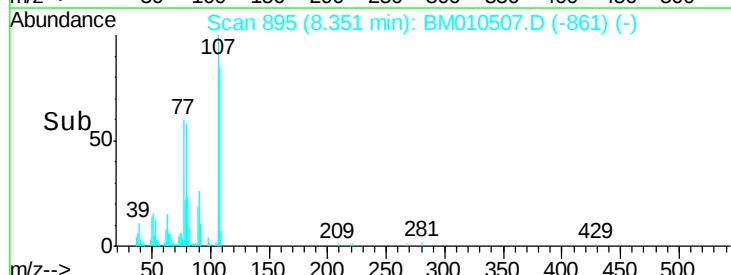
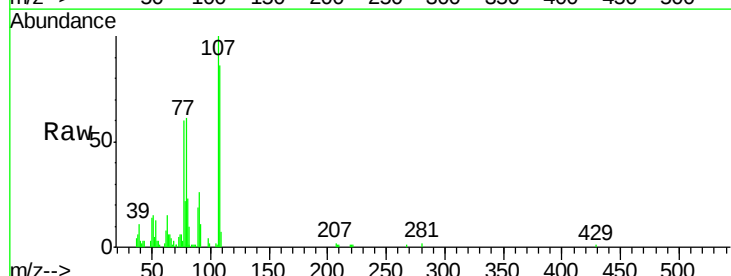
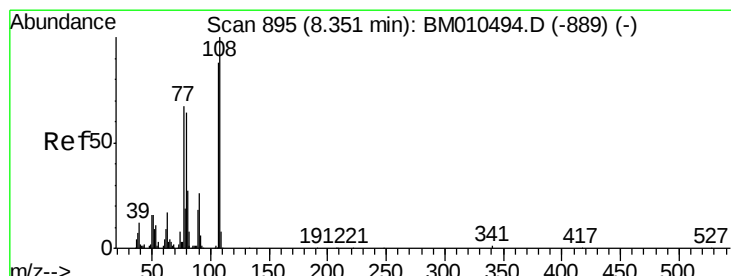
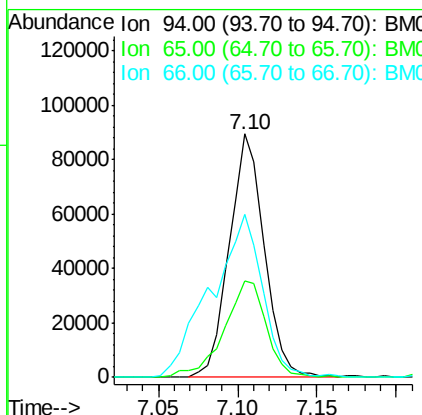
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Phenol  
Concen: 9.196 ng/ul  
RT: 7.10 min Scan# 683  
Delta R.T. -0.01 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 94      | 100   | 136660 |       |       |
| 65      | 39.8  | 28.2   | 42.4  |       |
| 66      | 66.9  | 47.2   | 70.8  |       |

Instrument :  
BNA\_M  
ClientSampleId :  
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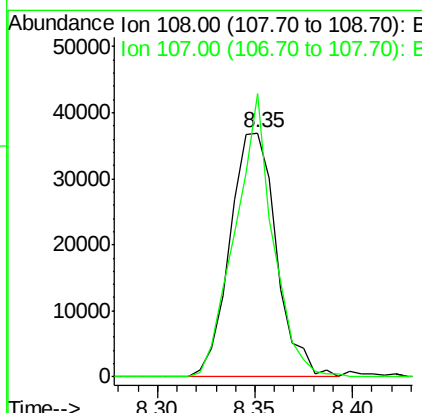
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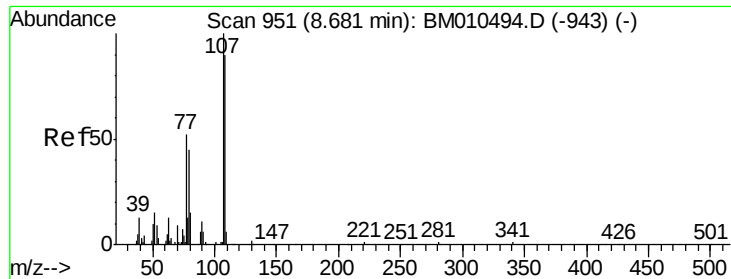
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#11  
2-Methylphenol  
Concen: 5.619 ng/ul  
RT: 8.35 min Scan# 895  
Delta R.T. 0.00 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 108     | 100   | 60946 |       |       |
| 107     | 116.1 | 72.6  | 108.8 |       |





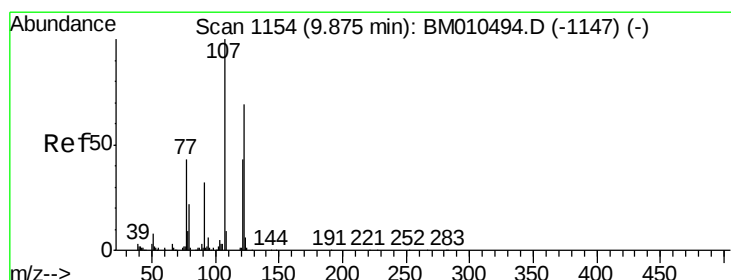
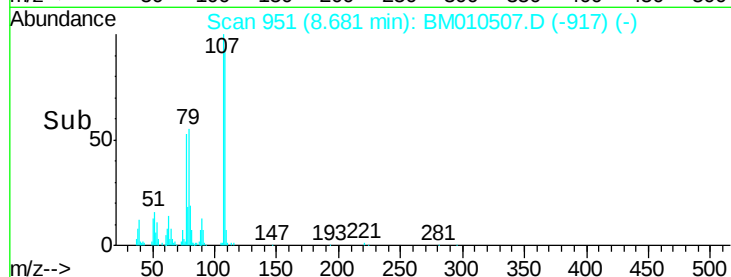
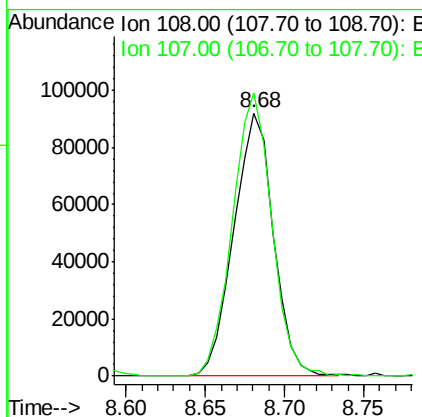
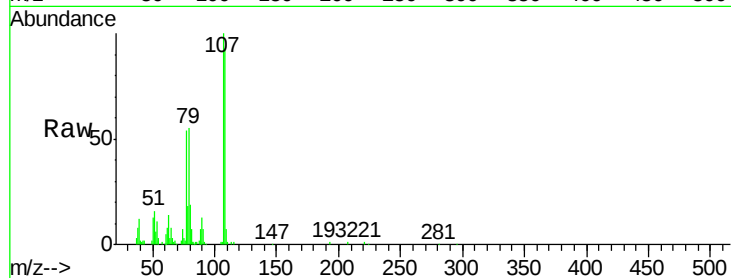
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4-Methylphenol  
Concen: 13.446 ng/ul  
RT: 8.68 min Scan# 951  
Delta R.T. 0.00 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

Instrument :  
BNA\_M  
ClientSampleId :  
F5C87

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 108     | 100   | 159977 |       |       |
| 107     | 107.5 | 84.9   | 127.3 |       |

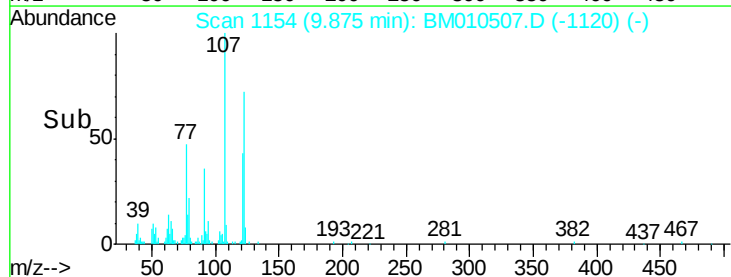
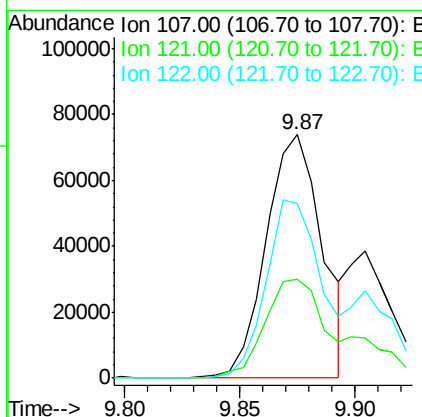
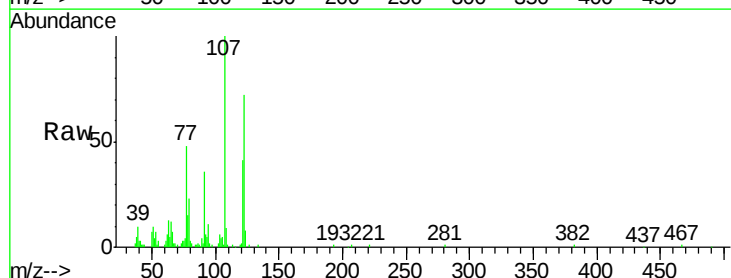
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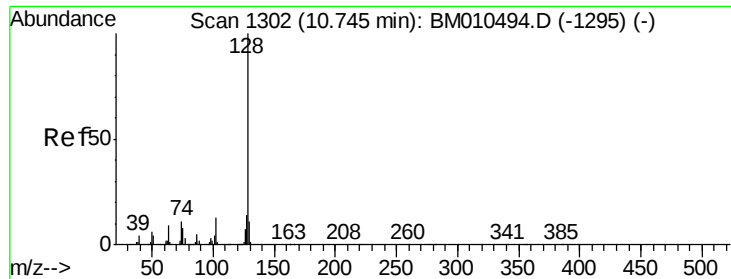
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#24  
2,4-Dimethylphenol  
Concen: 8.396 ng/ul  
RT: 9.87 min Scan# 1154  
Delta R.T. 0.00 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 124473 |       |       |
| 121     | 40.8  | 31.9   | 47.9  |       |
| 122     | 71.6  | 57.8   | 86.6  |       |





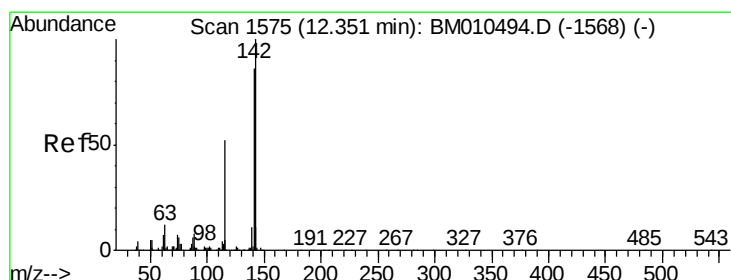
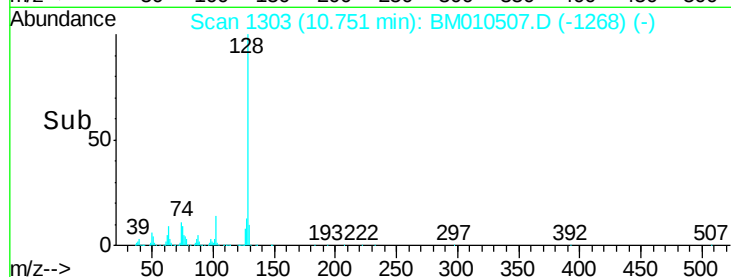
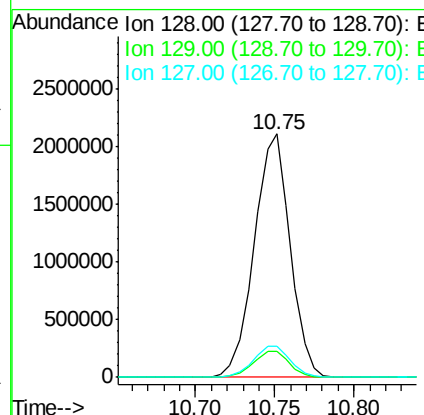
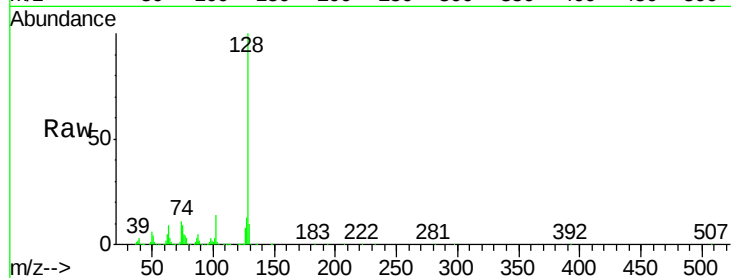
#28  
Naphthalene  
Concen: 93.375 ng/ul  
RT: 10.75 min Scan# 1303  
Delta R.T. 0.01 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

Instrument :  
BNA\_M  
ClientSampleId :  
F5C87

Tgt Ion:128 Resp: 3319334  
Ion Ratio Lower Upper  
128 100  
129 10.5 8.8 13.2  
127 12.9 10.6 16.0

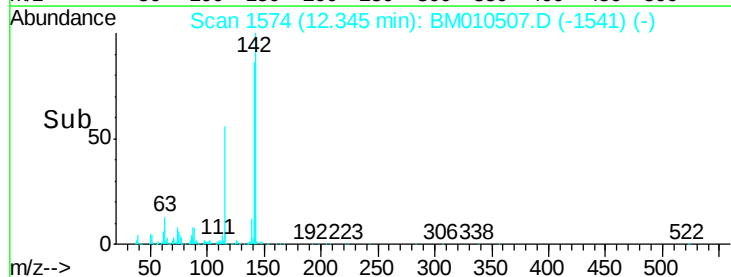
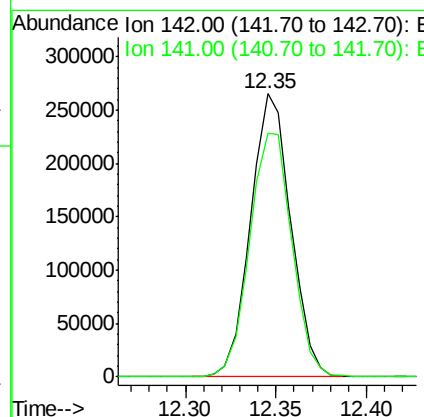
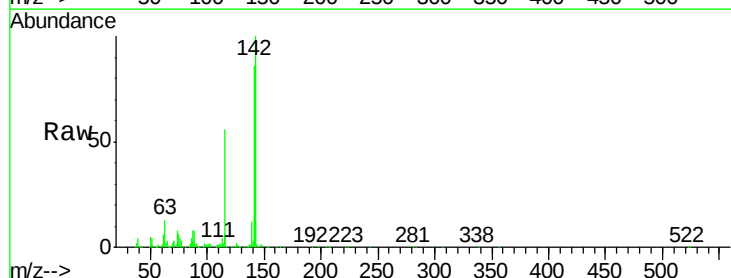
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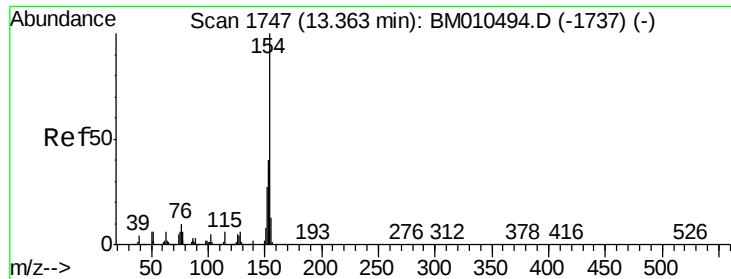
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#34  
2-Methylnaphthalene  
Concen: 15.191 ng/ul  
RT: 12.35 min Scan# 1574  
Delta R.T. -0.01 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

Tgt Ion:142 Resp: 409442  
Ion Ratio Lower Upper  
142 100  
141 86.1 74.1 111.1





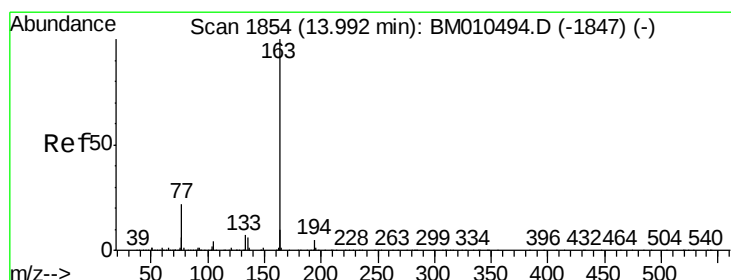
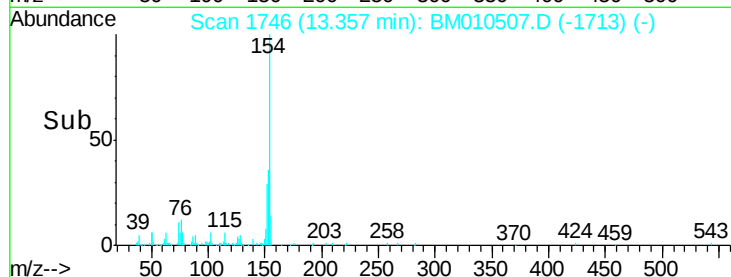
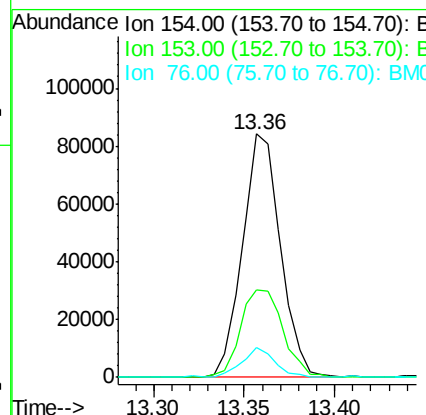
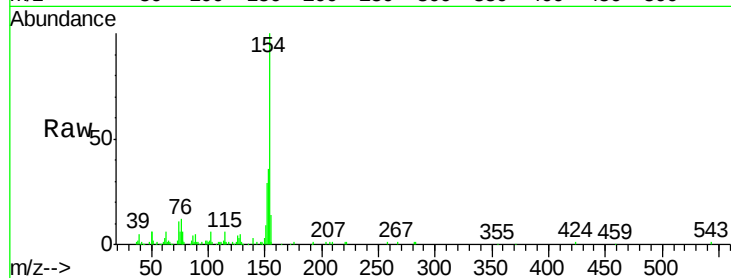
#40  
1,1'-Biphenyl  
Concen: 3.016 ng/ul  
RT: 13.36 min Scan# 1746  
Delta R.T. -0.01 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

Instrument :  
BNA\_M  
ClientSampleId :  
F5C87

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 122687 |       |       |
| 153     | 36.0  | 32.6   | 48.8  |       |
| 76      | 12.1  | 8.5    | 12.7  |       |

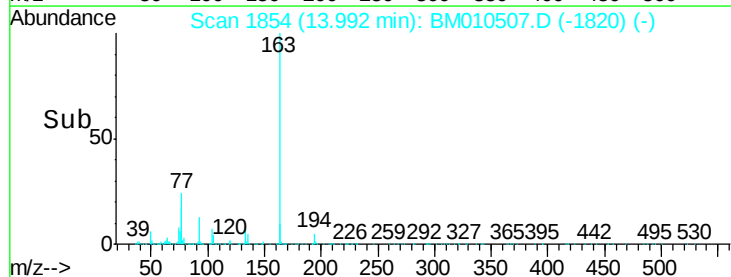
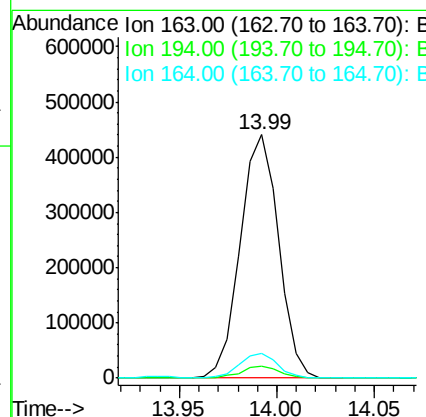
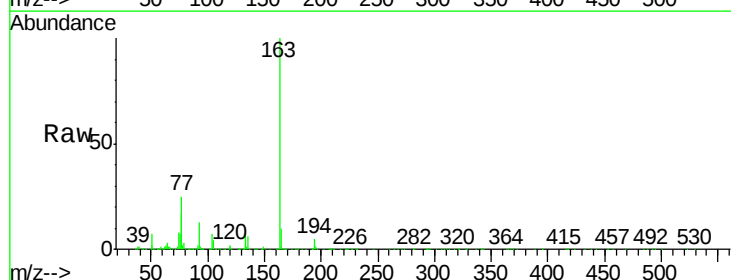
Manual Integrations  
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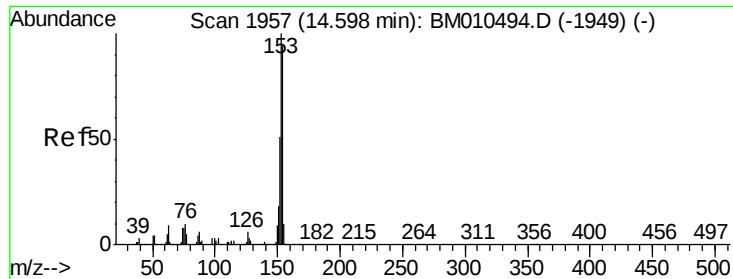
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#44  
Dimethylphthalate  
Concen: 14.606 ng/ul  
RT: 13.99 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 598342 |       |       |
| 194     | 4.7   | 3.5    | 5.3   |       |
| 164     | 10.0  | 8.2    | 12.4  |       |





#49

Acenaphthene

Concen: 10.857 ng/ul

RT: 14.59 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BM010507.D

Acq: 11 Jun 2017 04:10

Instrument :

BNA\_M

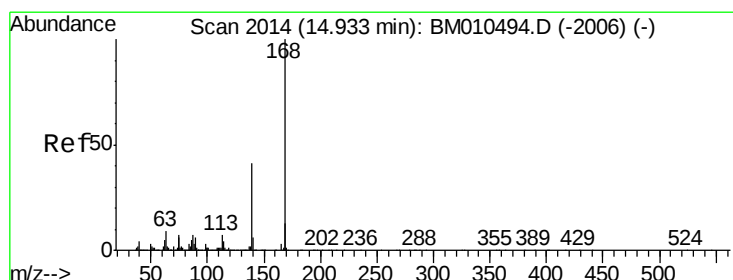
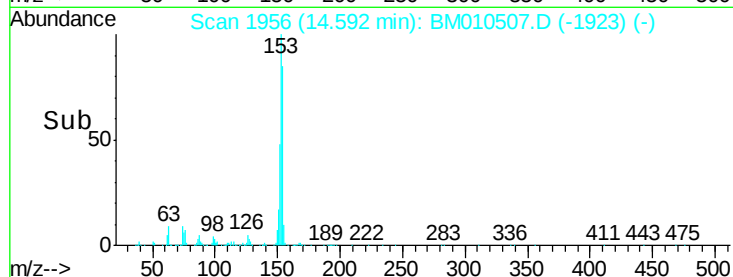
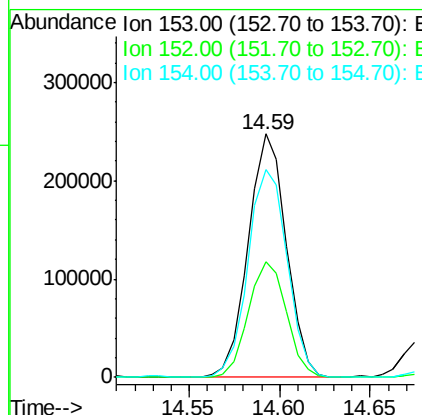
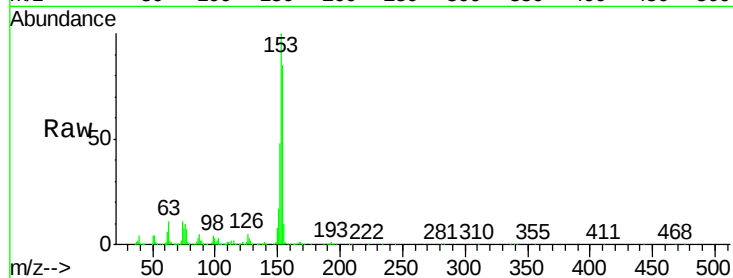
ClientSampleId :

F5C87

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 361576 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 47.7  | 37.6  | 56.4   |
| 154       | 85.4  | 70.4  | 105.6  |

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#53

Dibenzofuran

Concen: 10.260 ng/ul

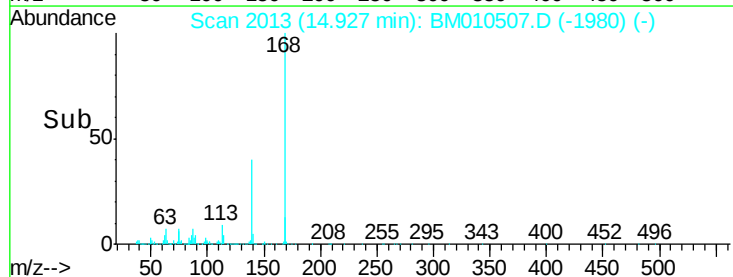
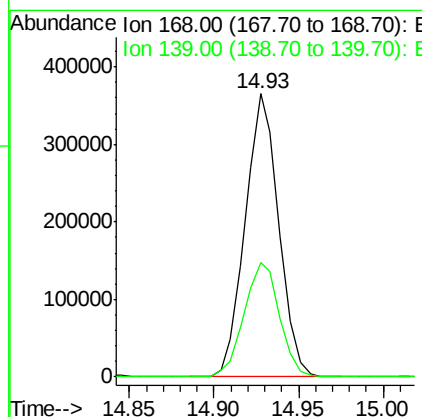
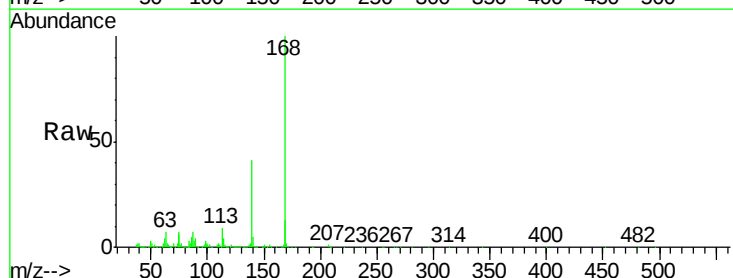
RT: 14.93 min Scan# 2013

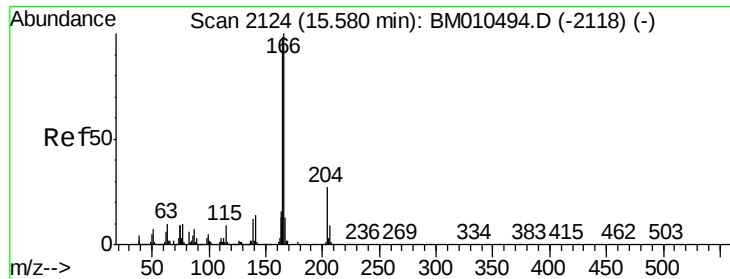
Delta R.T. -0.01 min

Lab File: BM010507.D

Acq: 11 Jun 2017 04:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 505281 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 40.6  | 30.8  | 46.2   |





#58

Fluorene

Concen: 11.875 ng/ul

RT: 15.57 min Scan# 2123

Delta R.T. -0.01 min

Lab File: BM010507.D

Acq: 11 Jun 2017 04:10

Instrument :

BNA\_M

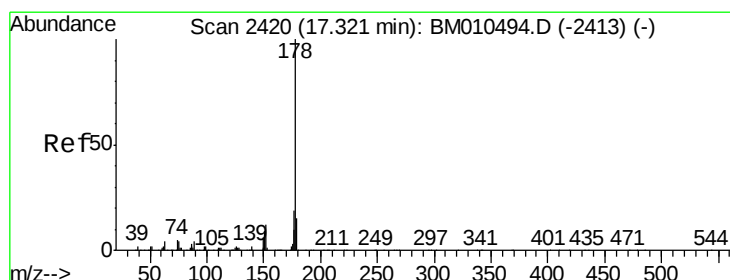
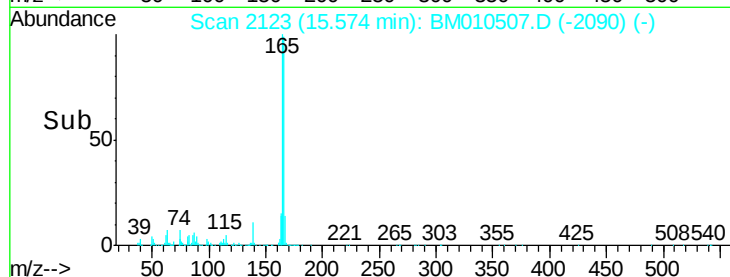
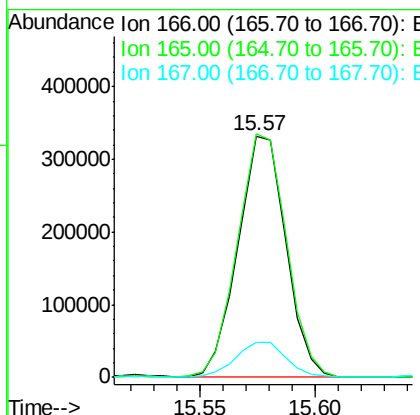
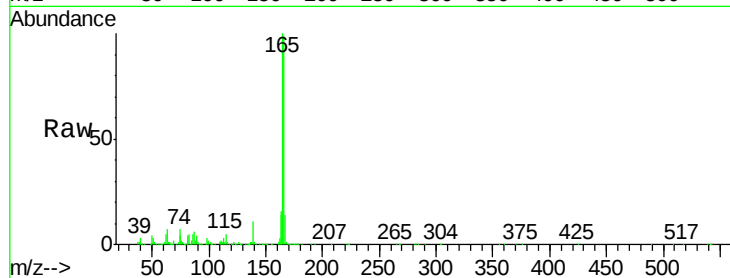
ClientSampleId :

F5C87

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 479692 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 100.9 | 77.9  | 116.9  |
| 167       | 14.6  | 10.6  | 16.0   |

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#69

Phenanthrene

Concen: 37.116 ng/ul

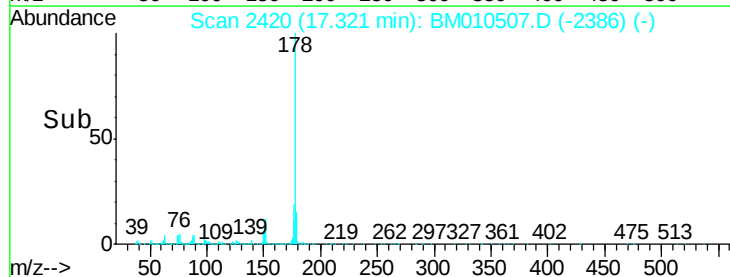
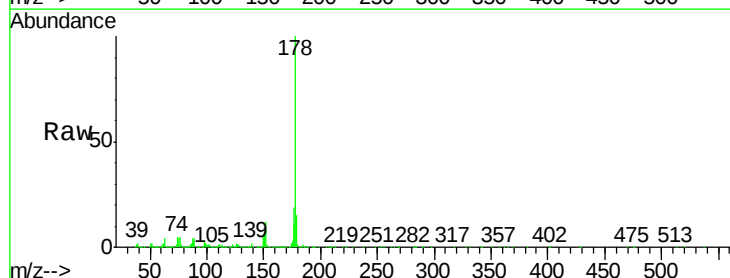
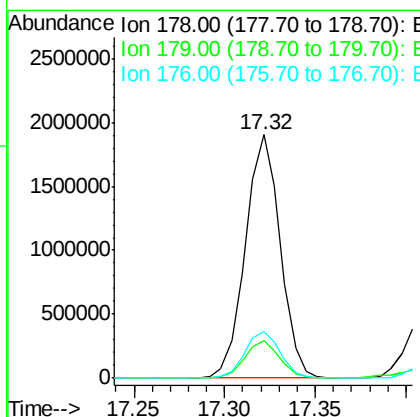
RT: 17.32 min Scan# 2420

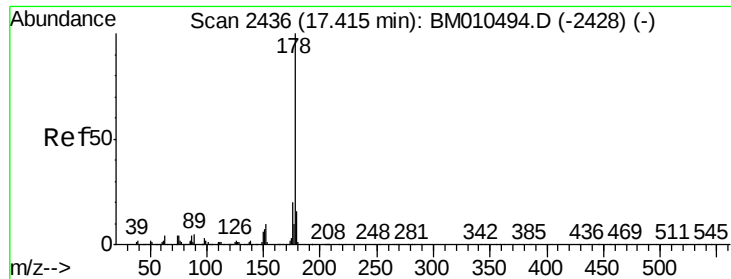
Delta R.T. 0.00 min

Lab File: BM010507.D

Acq: 11 Jun 2017 04:10

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 2536936 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 179       | 15.2  | 12.6  | 19.0    |
| 176       | 18.8  | 14.9  | 22.3    |





#71

Anthracene

Concen: 10.499 ng/ul

RT: 17.41 min Scan# 2435

Delta R.T. -0.01 min

Lab File: BM010507.D

Acq: 11 Jun 2017 04:10

Instrument :

BNA\_M

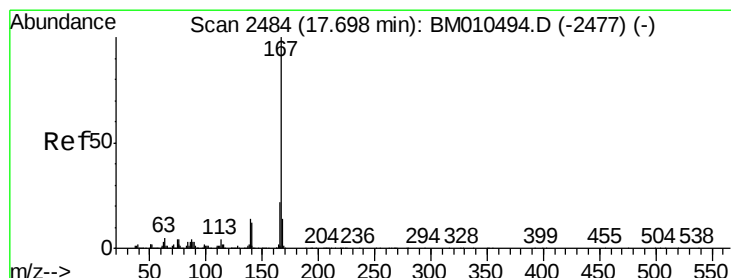
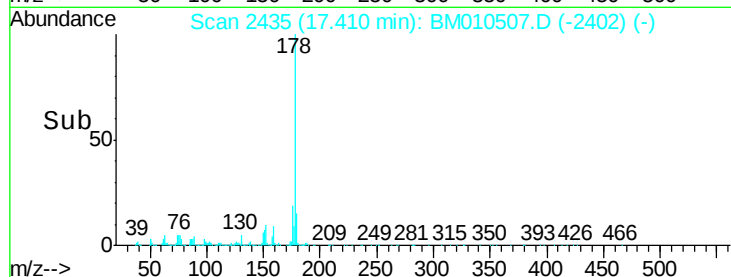
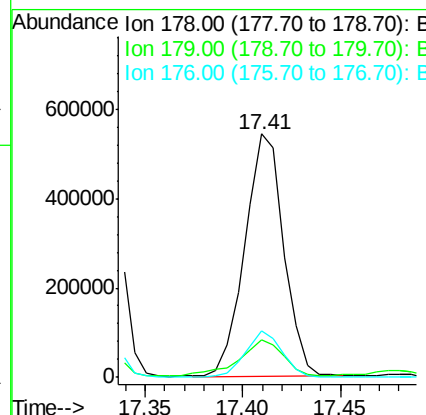
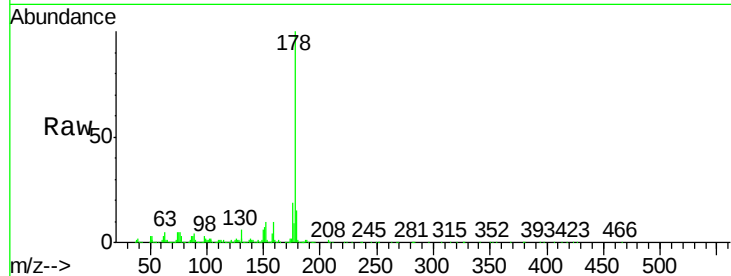
ClientSampleId :

F5C87

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 749185 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.4  | 11.7  | 17.5   |
| 176       | 19.0  | 14.6  | 21.8   |

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6/12/2017 3:41:02 PM



#72

Carbazole

Concen: 7.979 ng/ul

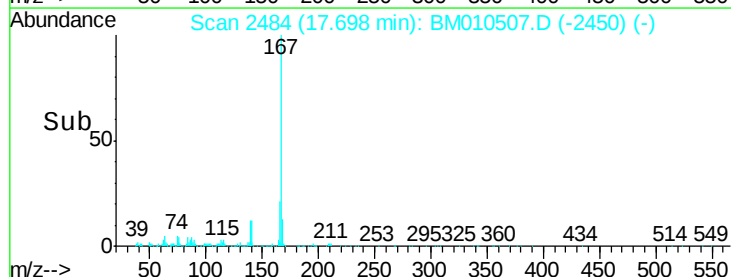
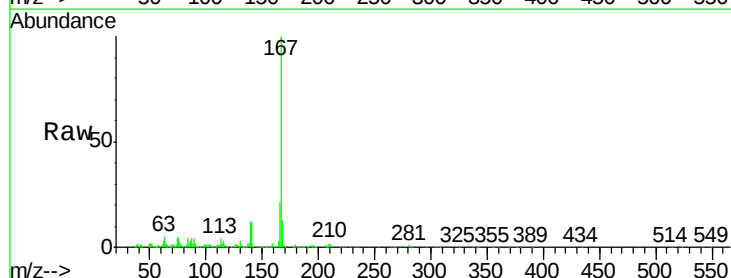
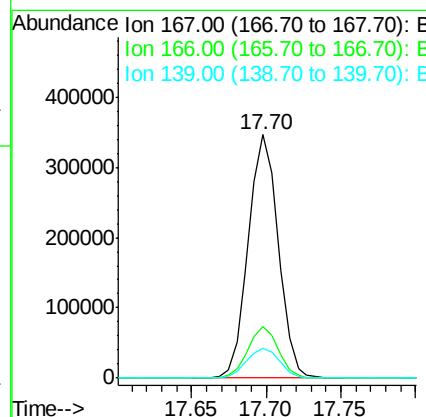
RT: 17.70 min Scan# 2484

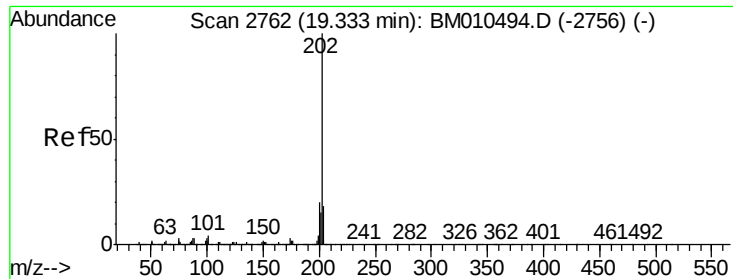
Delta R.T. 0.00 min

Lab File: BM010507.D

Acq: 11 Jun 2017 04:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 481895 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 21.2  | 17.1  | 25.7   |
| 139       | 12.4  | 10.0  | 15.0   |





#74

Fluoranthene

Concen: 18.769 ng/ul

RT: 19.33 min Scan# 2761

Delta R.T. -0.01 min

Lab File: BM010507.D

Acq: 11 Jun 2017 04:10

Instrument :

BNA\_M

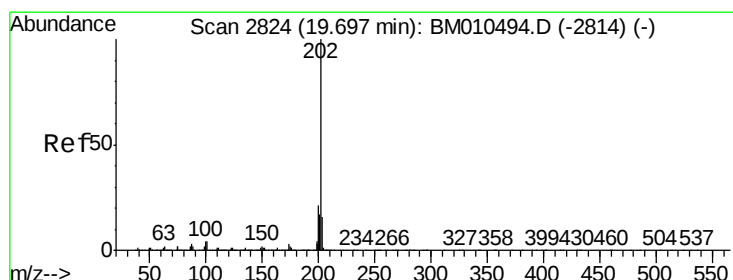
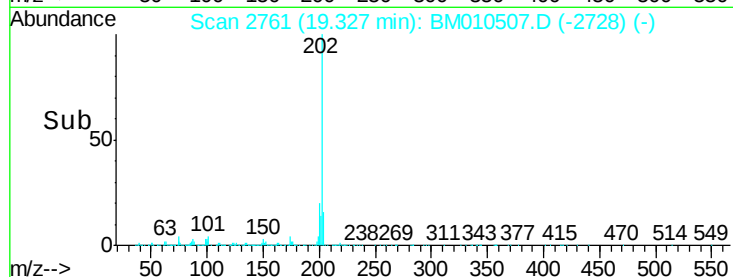
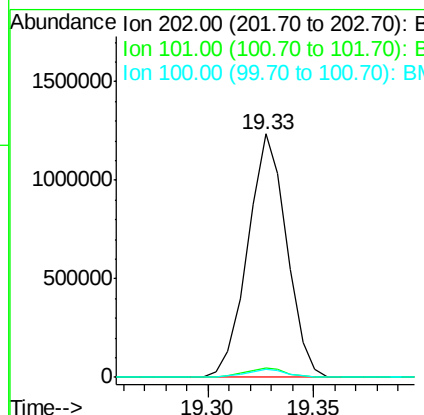
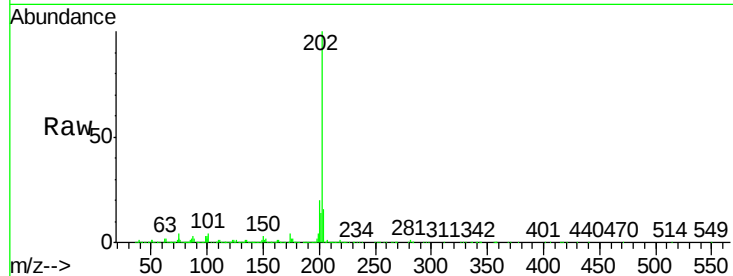
ClientSampleId :

F5C87

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1577579 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 4.0   | 4.6   | 7.0#    |
| 100       | 3.1   | 3.4   | 5.2#    |

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#77

Pyrene

Concen: 12.868 ng/ul

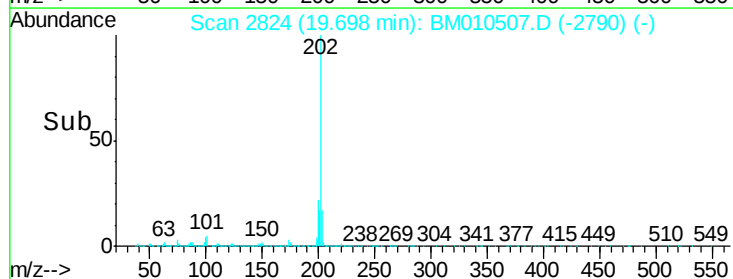
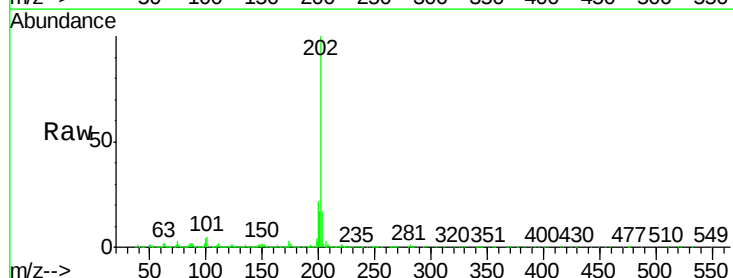
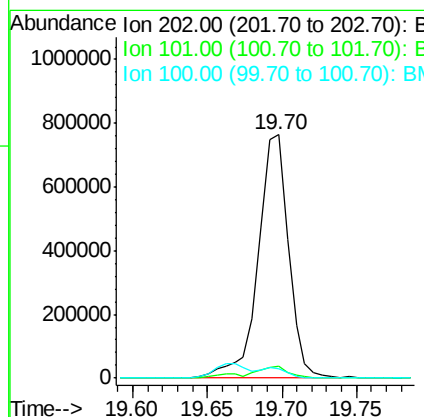
RT: 19.70 min Scan# 2824

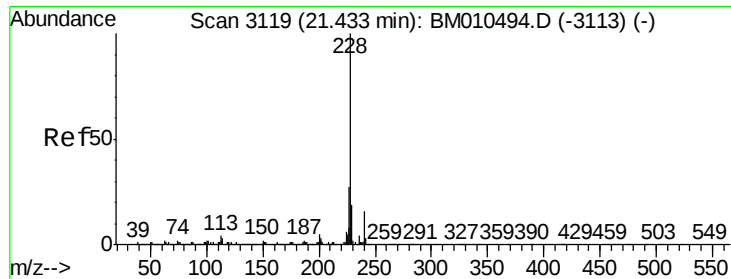
Delta R.T. 0.00 min

Lab File: BM010507.D

Acq: 11 Jun 2017 04:10

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1073342 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 5.0   | 5.1   | 7.7#    |
| 100       | 3.6   | 4.9   | 7.3#    |





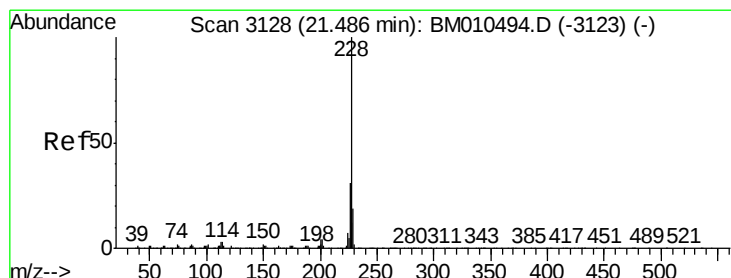
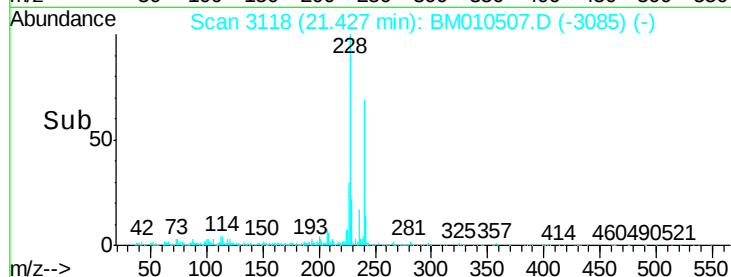
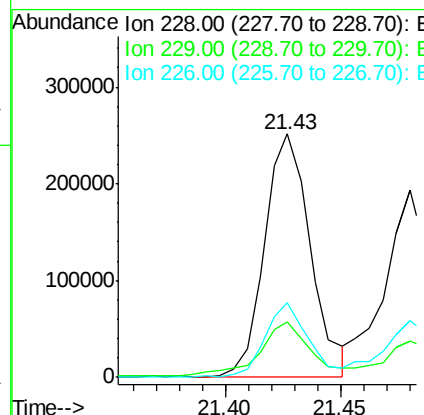
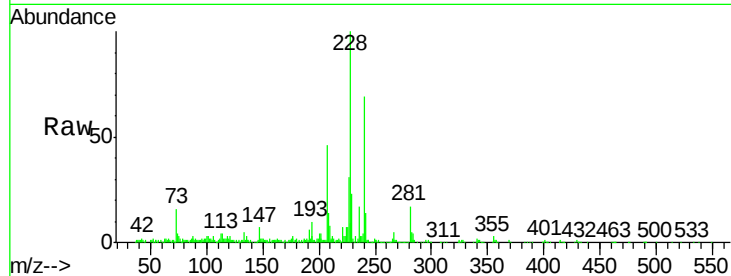
#80  
Benzo(a)anthracene  
Concen: 3.780 ng/ul  
RT: 21.43 min Scan# 3118  
Delta R.T. -0.01 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

Instrument :  
BNA\_M  
ClientSampleId :  
F5C87

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.6  | 15.4  | 23.0  |
| 226     | 30.6  | 21.4  | 32.0  |

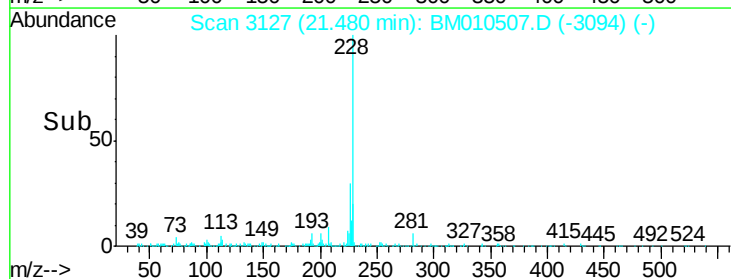
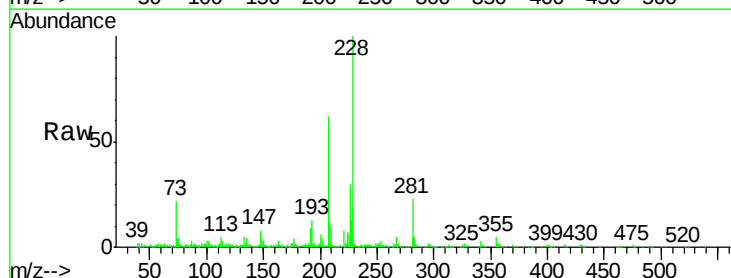
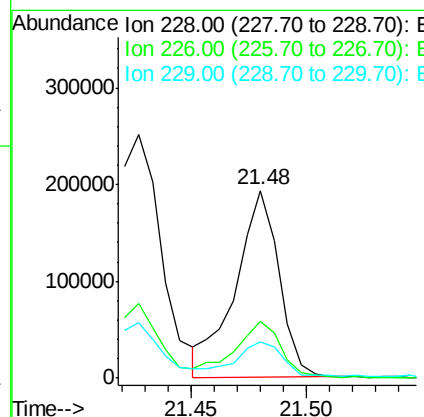
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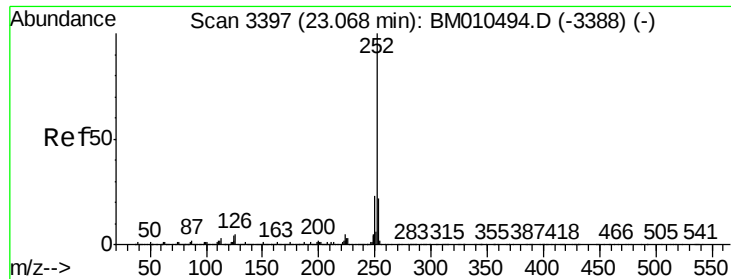
mohammad  
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#82  
Chrysene  
Concen: 3.076 ng/ul  
RT: 21.48 min Scan# 3127  
Delta R.T. -0.01 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 23.4  | 35.2  |
| 229     | 19.5  | 15.5  | 23.3  |





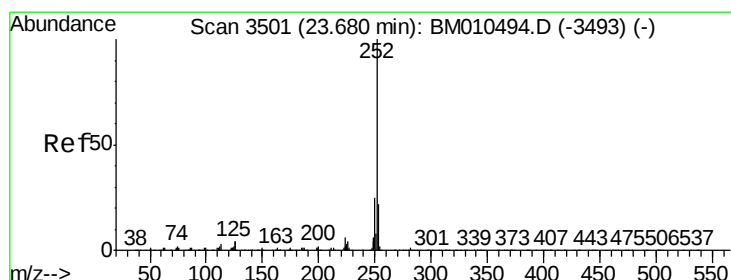
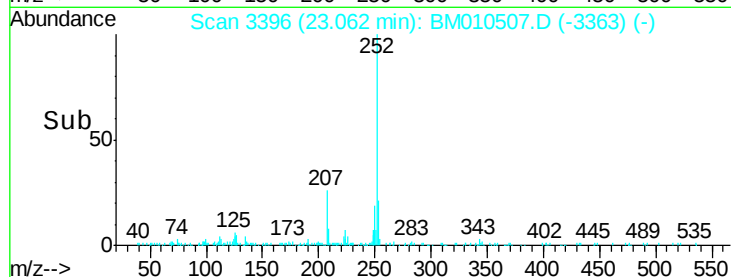
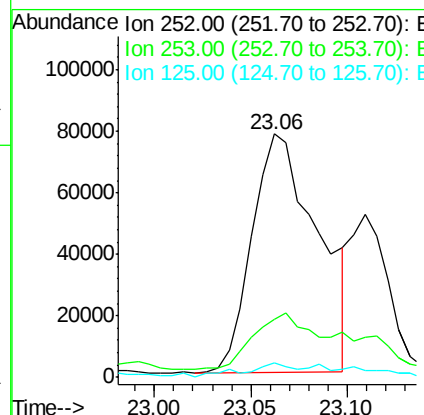
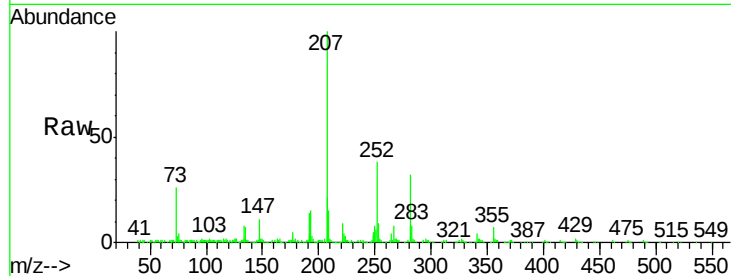
#85  
Benzo(b)fluoranthene  
Concen: 1.994 ng/ul m  
RT: 23.06 min Scan# 3396  
Delta R.T. -0.01 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

Instrument :  
BNA\_M  
ClientSampleId :  
F5C87

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 184764 |       |       |
| 253     | 23.9  | 17.9   | 26.9  |       |
| 125     | 5.9   | 3.6    | 5.4#  |       |

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#88  
Benzo(a)pyrene  
Concen: 1.315 ng/ul  
RT: 23.67 min Scan# 3500  
Delta R.T. -0.01 min  
Lab File: BM010507.D  
Acq: 11 Jun 2017 04:10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 120763 |       |       |
| 253     | 26.7  | 18.2   | 27.2  |       |
| 125     | 3.1   | 4.0    | 6.0#  |       |

