

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061217\  
 Data File : BM010545.D  
 Acq On : 12 Jun 2017 21:09  
 Operator : SJ/MA  
 Sample : I3521-09DL 20X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 F5C57DL

Manual Integrations  
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 6/13/2017 3:54:28 PM

Quant Time: Jun 13 03:52:17 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM052717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 13 03:33:28 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.89  | 152  | 121336   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.69 | 136  | 460439   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.53 | 164  | 346522   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.27 | 188  | 946203   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.44 | 240  | 1151512  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.77 | 264  | 1091751  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0d     | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 7.08  | 99  | 8515   | 0.93 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.23  | 67  | 5775   | 1.12 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.43  | 132 | 7968   | 1.09 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.62  | 113 | 7305   | 0.98 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.09  | 128 | 3246m  | 0.96 | ng/ul | 0.01 |
| 22) 2-Nitrophenol-d4           | 9.80  | 143 | 5690m  | 1.46 | ng/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.33 | 165 | 7465   | 0.93 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.87 | 131 | 10232m | 1.32 | ng/ul | 0.02 |
| 43) Dimethylphthalate-d6       | 13.94 | 166 | 38105  | 1.32 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.22 | 160 | 34789  | 1.04 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0d     | 0.00 | ng/ul |      |
| 57) Fluorene-d10               | 15.52 | 176 | 35806  | 1.41 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.65 | 200 | 5076   | 0.76 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.37 | 188 | 58039  | 1.26 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.66 | 212 | 71599  | 1.50 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.62 | 264 | 65448  | 1.29 | ng/ul | 0.00 |

## Target Compounds

|                          |       |     |         |        | Qvalue |    |
|--------------------------|-------|-----|---------|--------|--------|----|
| 28) Naphthalene          | 10.74 | 128 | 475352  | 20.583 | ng/ul  | 97 |
| 34) 2-Methylnaphthalene  | 12.35 | 142 | 166650  | 9.518  | ng/ul  | 96 |
| 40) 1,1'-Biphenyl        | 13.36 | 154 | 57911   | 2.060  | ng/ul  | 92 |
| 44) Dimethylphthalate    | 13.99 | 163 | 36693   | 1.296  | ng/ul# | 95 |
| 49) Acenaphthene         | 14.59 | 153 | 191667  | 8.327  | ng/ul  | 92 |
| 53) Dibenzofuran         | 14.92 | 168 | 277340  | 8.148  | ng/ul  | 89 |
| 58) Fluorene             | 15.57 | 166 | 305833  | 10.954 | ng/ul  | 97 |
| 69) Phenanthrene         | 17.32 | 178 | 1380637 | 27.332 | ng/ul  | 99 |
| 71) Anthracene           | 17.41 | 178 | 196482  | 3.726  | ng/ul  | 98 |
| 72) Carbazole            | 17.69 | 167 | 71975   | 1.613  | ng/ul# | 93 |
| 74) Fluoranthene         | 19.32 | 202 | 774073  | 12.462 | ng/ul# | 96 |
| 77) Pyrene               | 19.69 | 202 | 491964  | 8.291  | ng/ul# | 93 |
| 80) Benzo(a)anthracene   | 21.42 | 228 | 144096  | 2.219  | ng/ul  | 94 |
| 82) Chrysene             | 21.48 | 228 | 119776m | 2.040  | ng/ul  |    |
| 85) Benzo(b)fluoranthene | 23.06 | 252 | 72810   | 1.146  | ng/ul# | 94 |

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

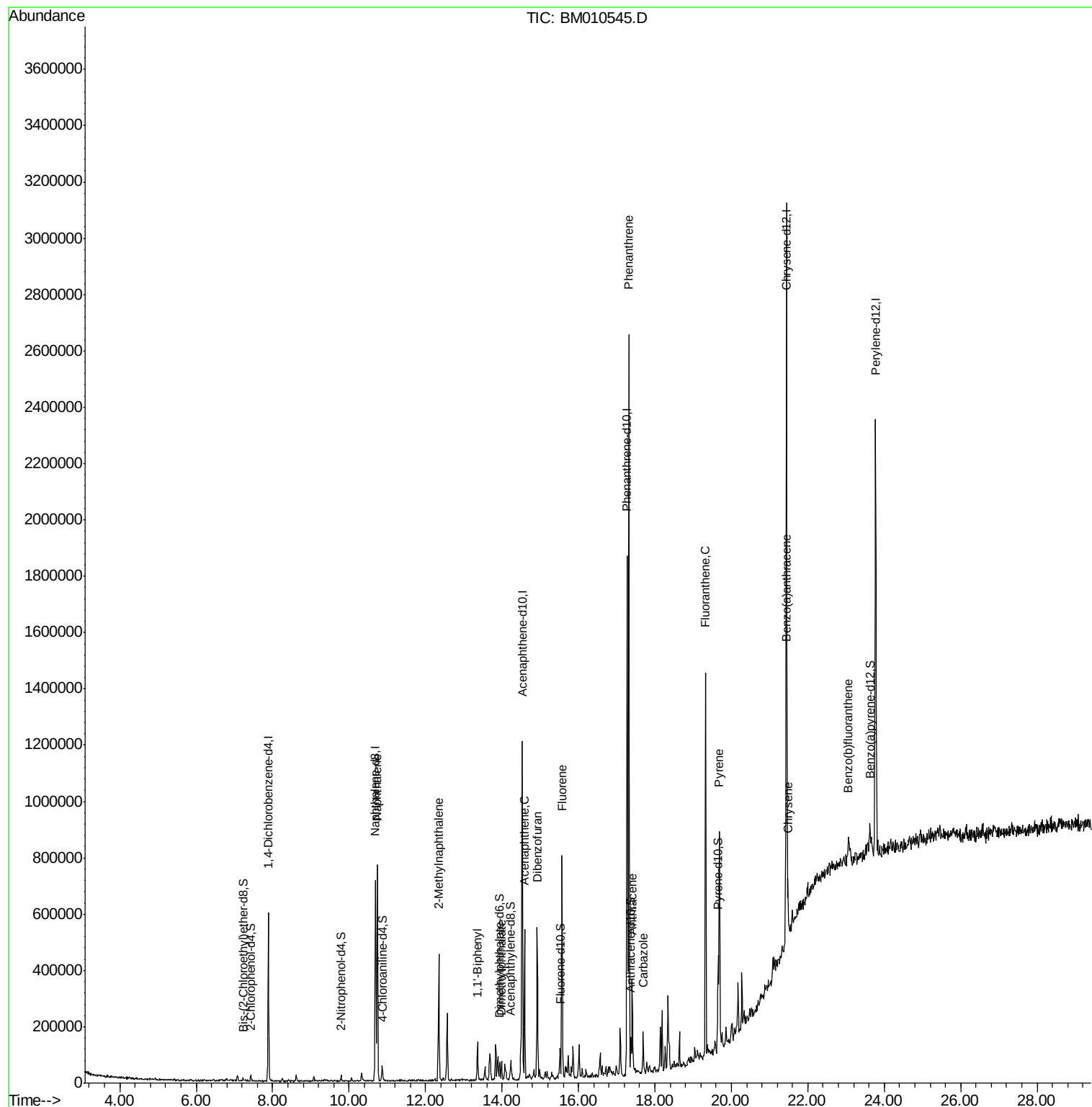
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061217\  
Data File : BM010545.D  
Acq On : 12 Jun 2017 21:09  
Operator : SJ/MA  
Sample : I3521-09DL 20X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

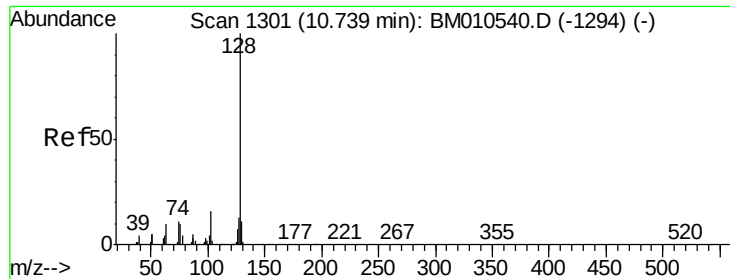
Instrument :  
BNA\_M  
ClientSampleId :  
F5C57DL

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Quant Time: Jun 13 03:52:17 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM052717.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jun 13 03:33:28 2017  
Response via : Initial Calibration





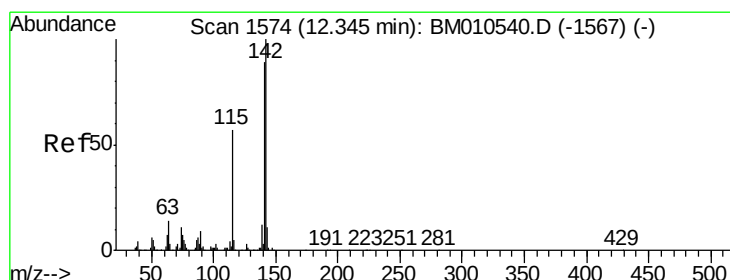
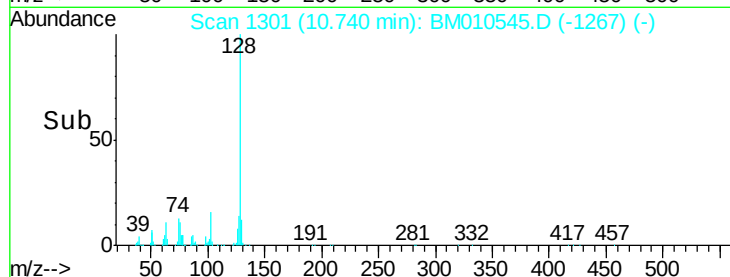
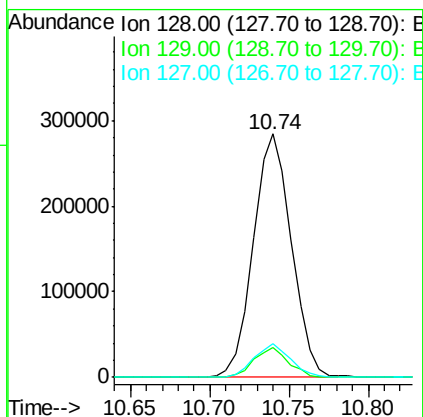
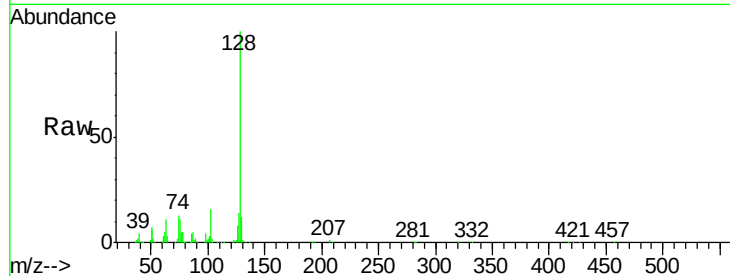
#28  
Naphthalene  
Concen: 20.583 ng/ul  
RT: 10.74 min Scan# 1301  
Delta R.T. 0.00 min  
Lab File: BM010545.D  
Acq: 12 Jun 2017 21:09

Instrument :  
BNA\_M  
ClientSampleId :  
F5C57DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 475352 |       |       |
| 129     | 12.4  |        | 8.8   | 13.2  |
| 127     | 14.1  |        | 10.6  | 16.0  |

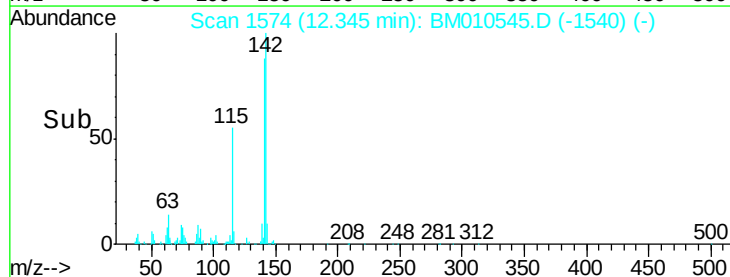
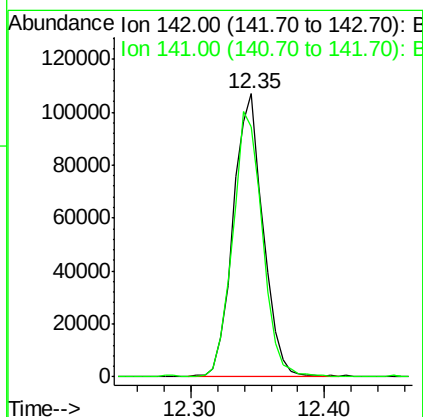
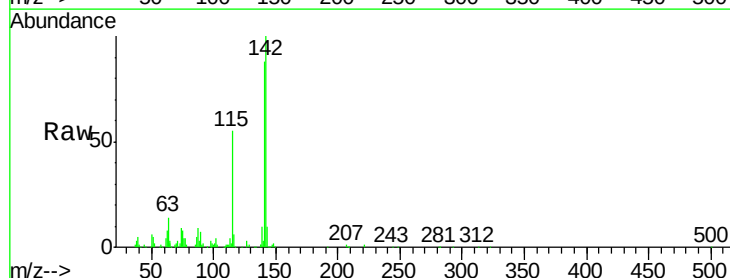
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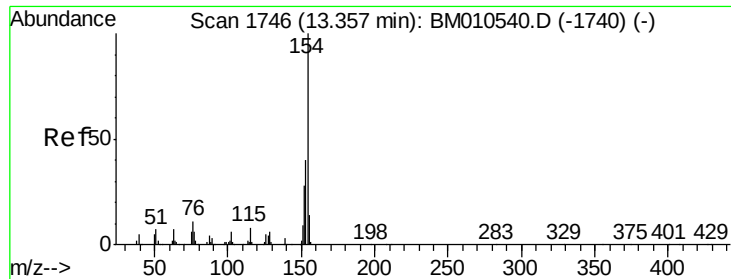
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#34  
2-Methylnaphthalene  
Concen: 9.518 ng/ul  
RT: 12.35 min Scan# 1574  
Delta R.T. 0.00 min  
Lab File: BM010545.D  
Acq: 12 Jun 2017 21:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 166650 |       |       |
| 141     | 88.3  |        | 74.1  | 111.1 |





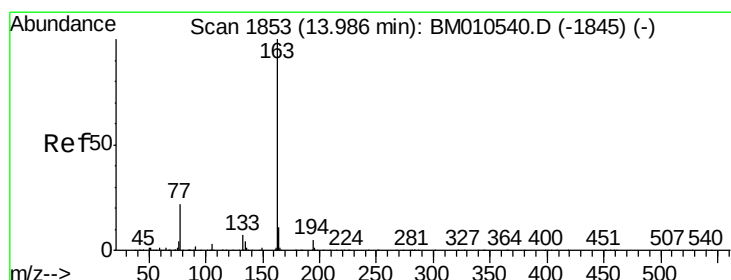
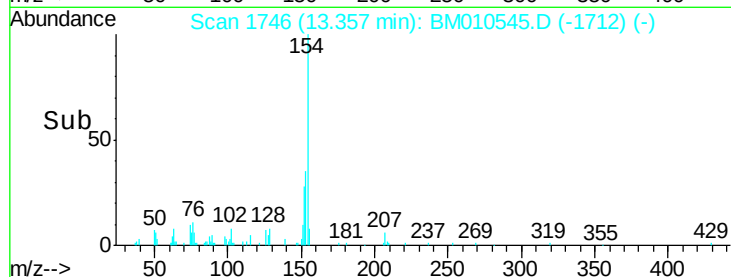
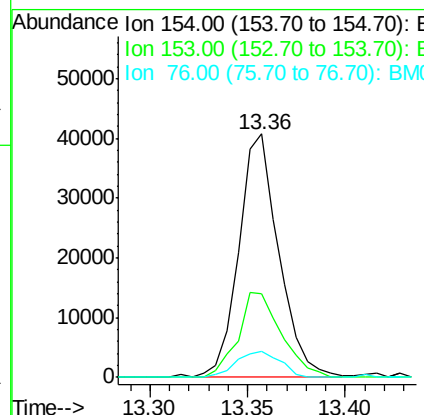
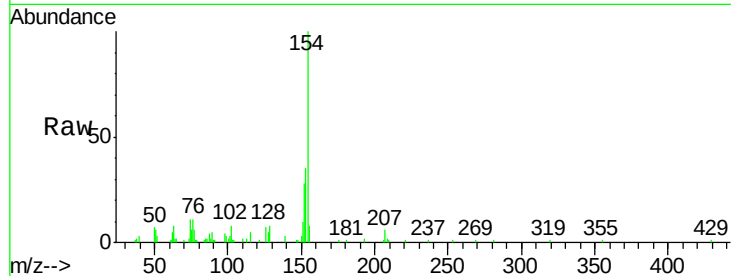
#40  
 1,1'-Biphenyl  
 Concen: 2.060 ng/ul  
 RT: 13.36 min Scan# 1746  
 Delta R.T. 0.00 min  
 Lab File: BM010545.D  
 Acq: 12 Jun 2017 21:09

Instrument :  
 BNA\_M  
 ClientSampled :  
 F5C57DL

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 57911 |       |       |
| 153     | 34.6  |       | 32.6  | 48.8  |
| 76      | 10.7  |       | 8.5   | 12.7  |

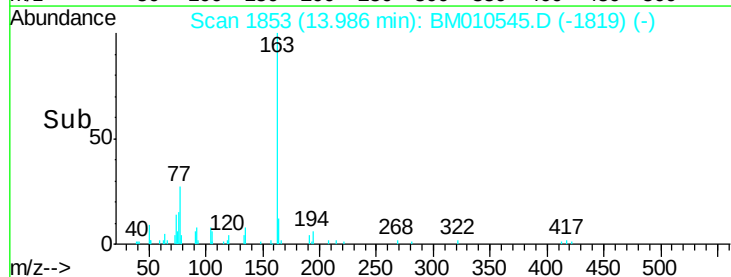
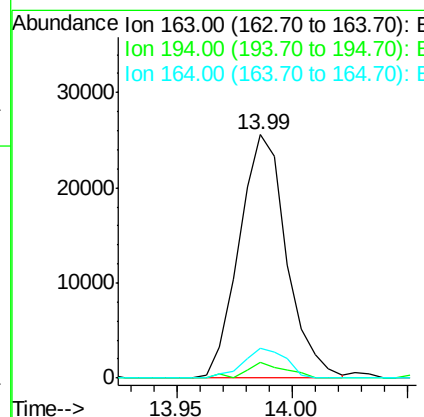
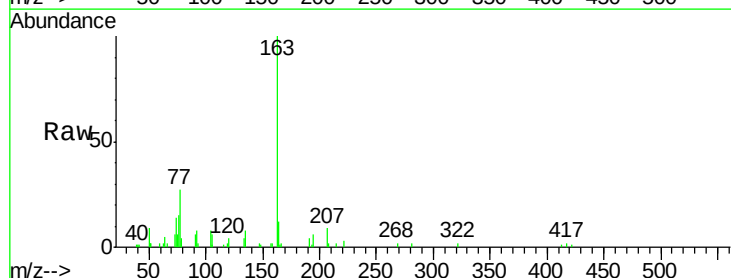
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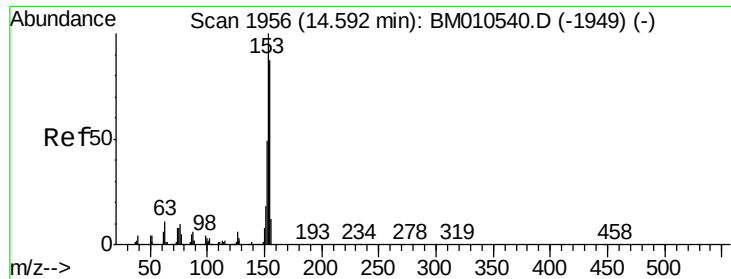
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#44  
 Dimethylphthalate  
 Concen: 1.296 ng/ul  
 RT: 13.99 min Scan# 1853  
 Delta R.T. 0.00 min  
 Lab File: BM010545.D  
 Acq: 12 Jun 2017 21:09

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 36693 |       |       |
| 194     | 6.4   |       | 3.5   | 5.3#  |
| 164     | 12.2  |       | 8.2   | 12.4  |





#49

Acenaphthene

Concen: 8.327 ng/ul

RT: 14.59 min Scan# 1956

Delta R.T. 0.00 min

Lab File: BM010545.D

Acq: 12 Jun 2017 21:09

Instrument :

BNA\_M

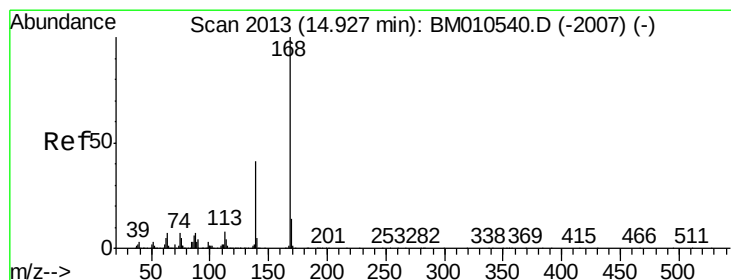
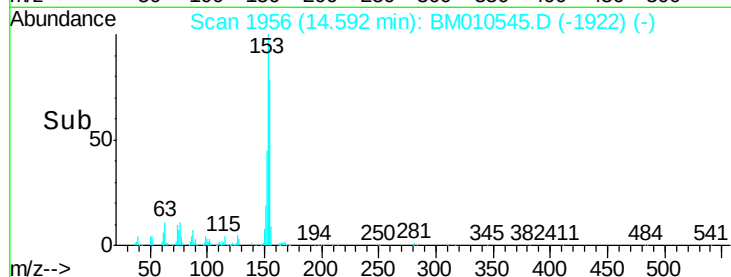
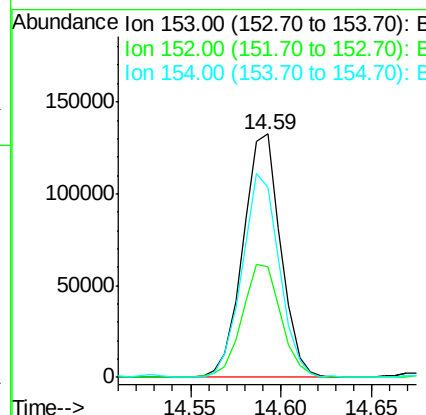
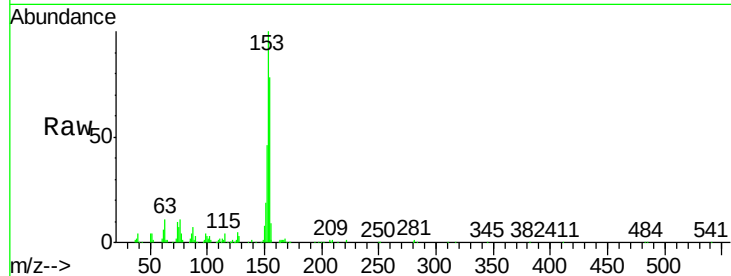
ClientSampleId :

F5C57DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 191667 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 45.6  | 37.6  | 56.4   |
| 154       | 77.9  | 70.4  | 105.6  |

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#53

Dibenzofuran

Concen: 8.148 ng/ul

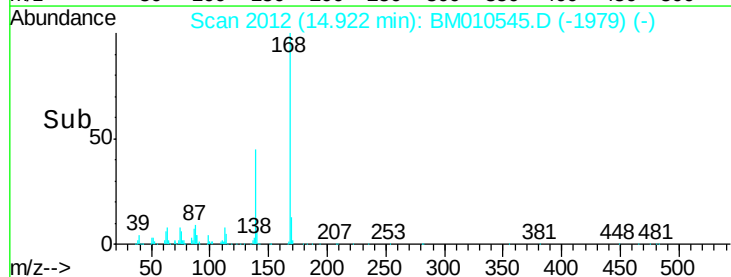
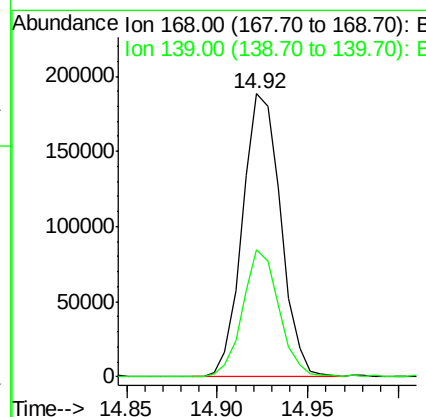
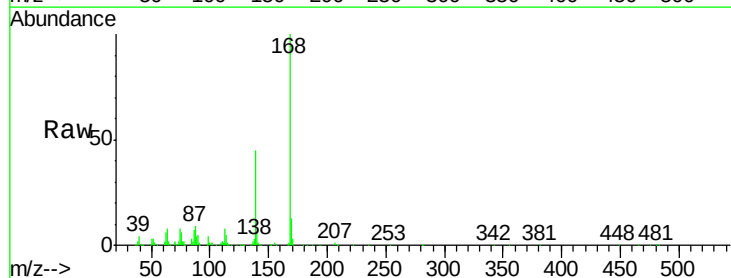
RT: 14.92 min Scan# 2012

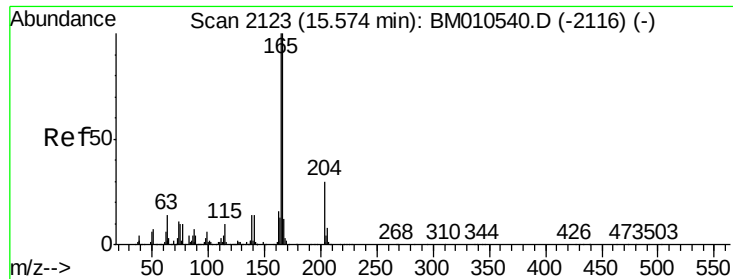
Delta R.T. -0.01 min

Lab File: BM010545.D

Acq: 12 Jun 2017 21:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 277340 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 45.0  | 30.8  | 46.2   |





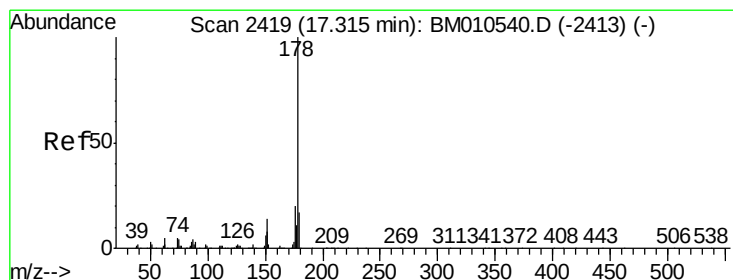
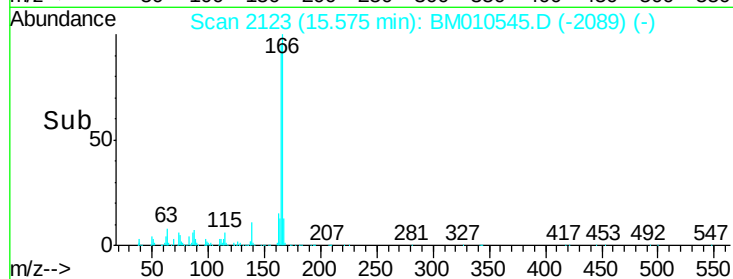
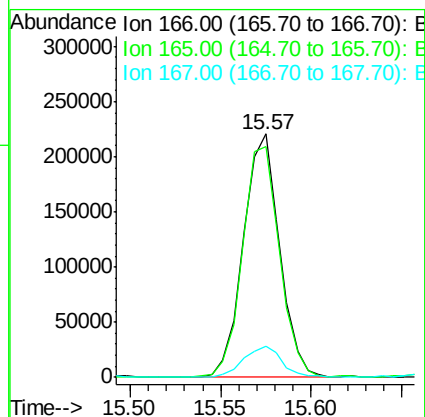
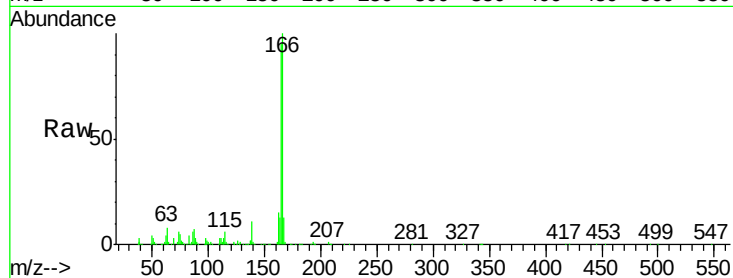
#58  
 Fluorene  
 Concen: 10.954 ng/ul  
 RT: 15.57 min Scan# 2123  
 Delta R.T. 0.00 min  
 Lab File: BM010545.D  
 Acq: 12 Jun 2017 21:09

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C57DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 305833 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 94.8  | 77.9  | 116.9  |
| 167       | 12.8  | 10.6  | 16.0   |

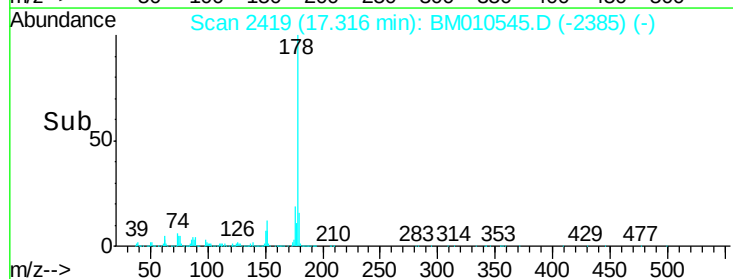
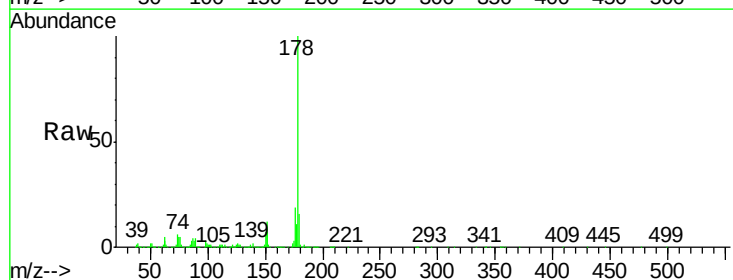
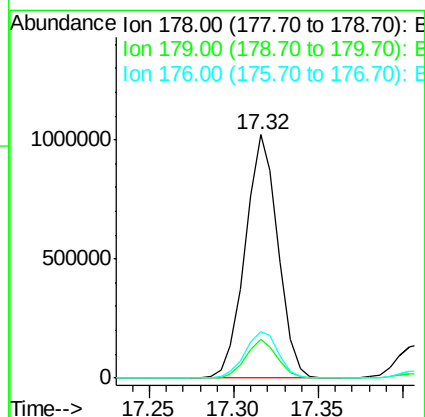
Manual Integrations  
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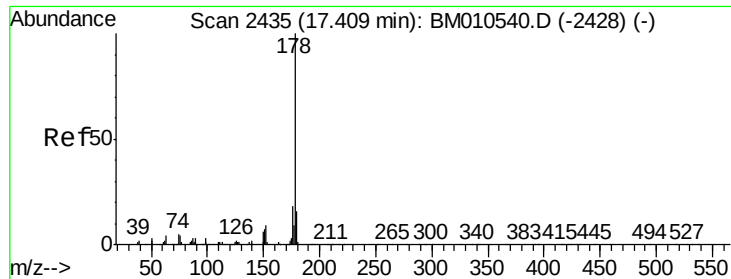
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#69  
 Phenanthrene  
 Concen: 27.332 ng/ul  
 RT: 17.32 min Scan# 2419  
 Delta R.T. 0.00 min  
 Lab File: BM010545.D  
 Acq: 12 Jun 2017 21:09

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 1380637 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 179       | 15.7  | 12.6  | 19.0    |
| 176       | 19.2  | 14.9  | 22.3    |





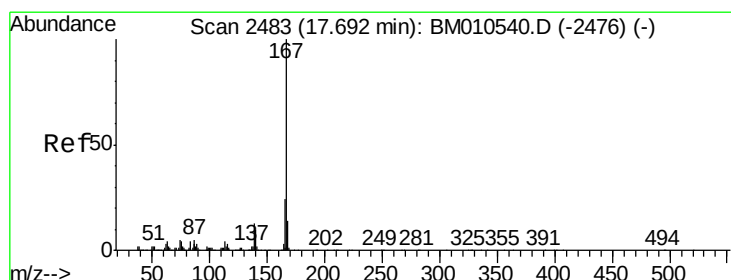
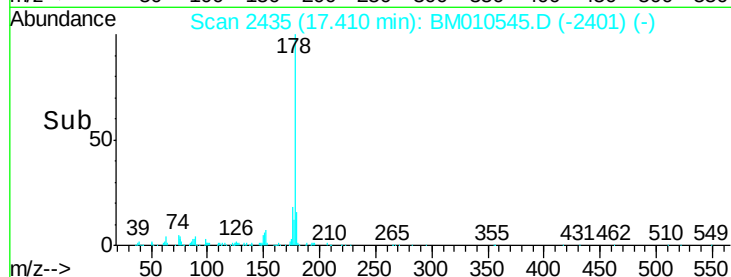
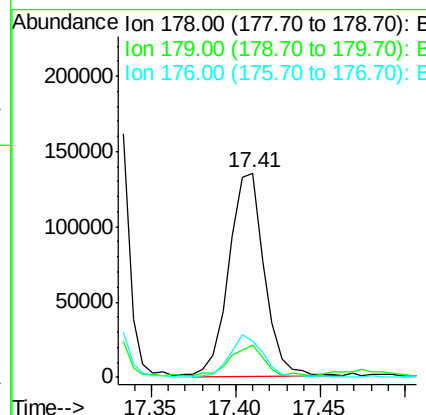
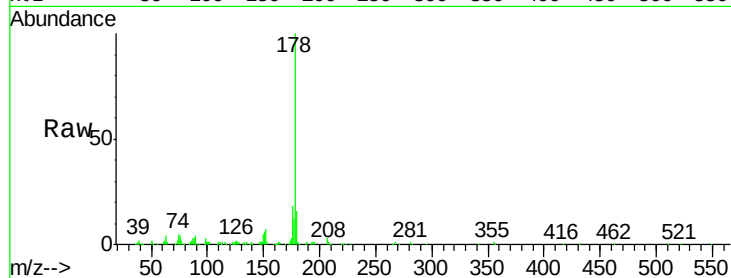
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 Anthracene  
 Concen: 3.726 ng/ul  
 RT: 17.41 min Scan# 2435  
 Delta R.T. 0.00 min  
 Lab File: BM010545.D  
 Acq: 12 Jun 2017 21:09

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C57DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.0  | 11.7  | 17.5  |
| 176     | 18.0  | 14.6  | 21.8  |

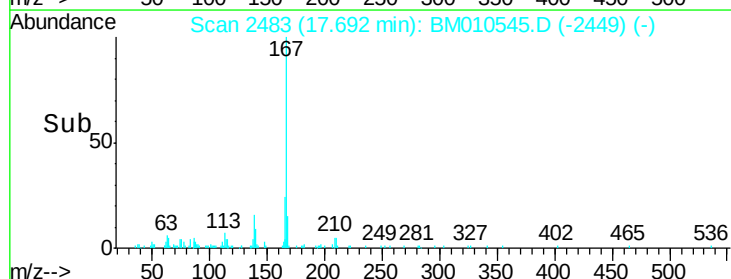
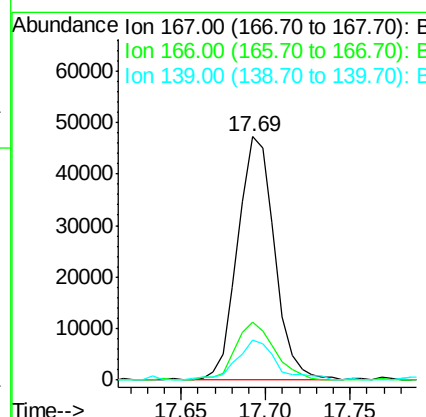
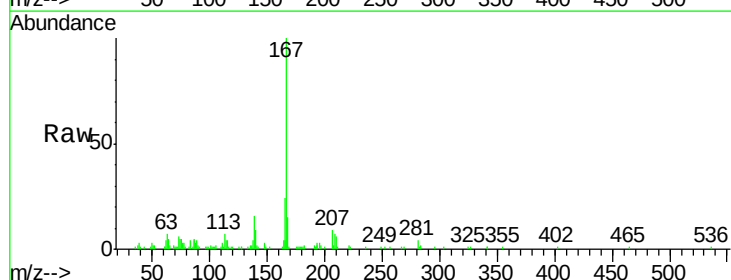
Manual Integrations  
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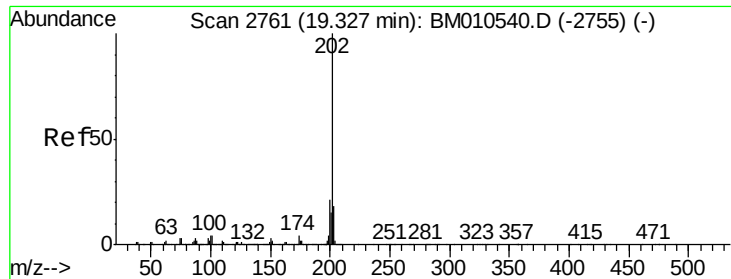
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#72  
 Carbazole  
 Concen: 1.613 ng/ul  
 RT: 17.69 min Scan# 2483  
 Delta R.T. 0.00 min  
 Lab File: BM010545.D  
 Acq: 12 Jun 2017 21:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 23.9  | 17.1  | 25.7  |
| 139     | 16.4  | 10.0  | 15.0  |





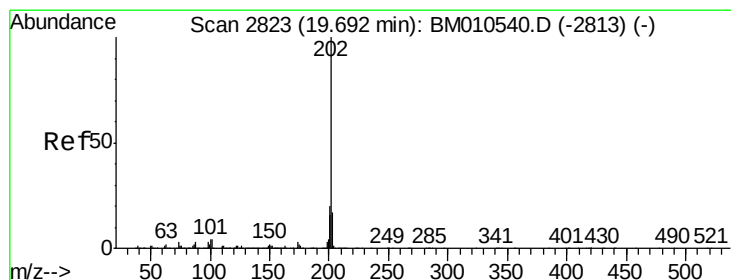
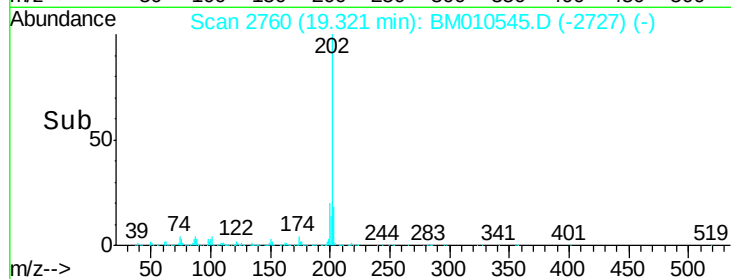
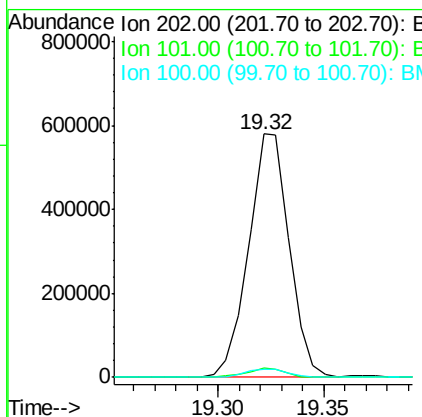
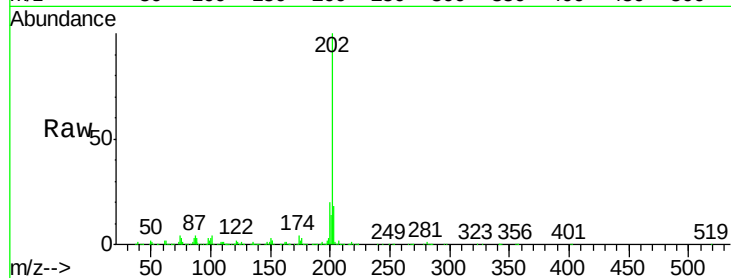
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 Fluoranthene  
 Concen: 12.462 ng/ul  
 RT: 19.32 min Scan# 2760  
 Delta R.T. -0.01 min  
 Lab File: BM010545.D  
 Acq: 12 Jun 2017 21:09

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5C57DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 774073 |       |       |
| 101     | 3.9   | 4.6    | 7.0#  |       |
| 100     | 3.3   | 3.4    | 5.2#  |       |

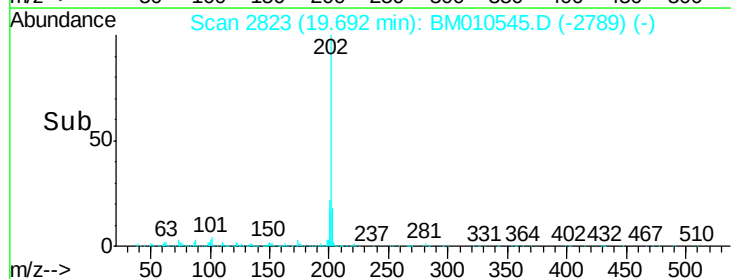
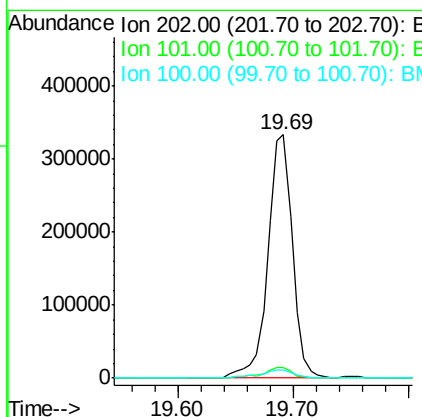
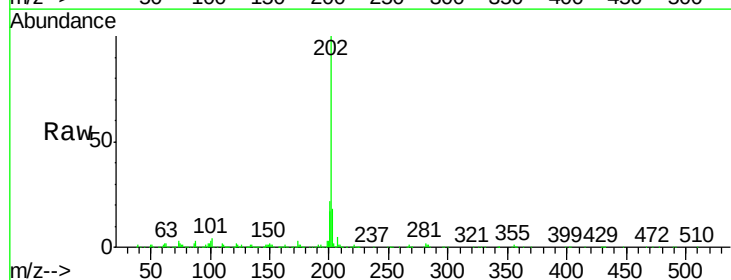
Manual Integrations  
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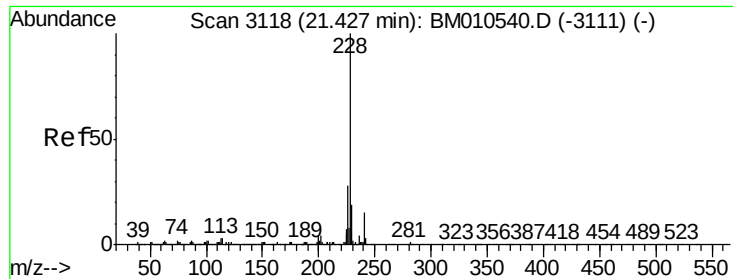


#77  
 Pyrene  
 Concen: 8.291 ng/ul  
 RT: 19.69 min Scan# 2823  
 Delta R.T. 0.00 min  
 Lab File: BM010545.D  
 Acq: 12 Jun 2017 21:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 491964 |       |       |
| 101     | 4.4   | 5.1    | 7.7#  |       |
| 100     | 3.3   | 4.9    | 7.3#  |       |







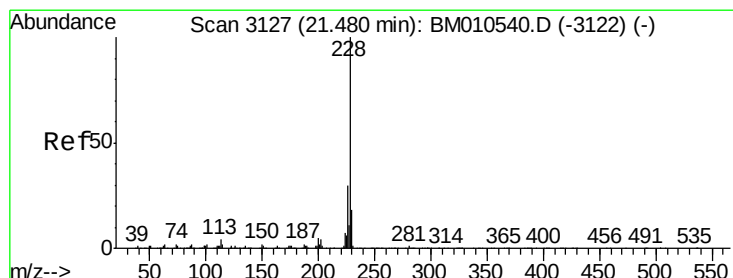
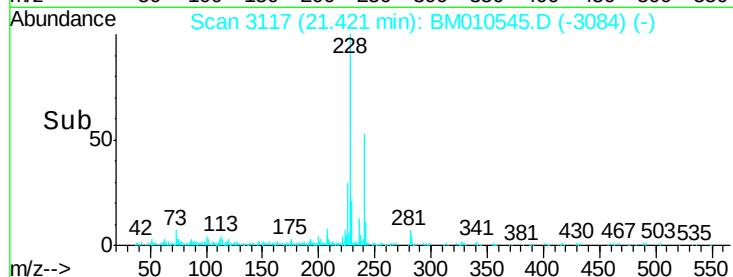
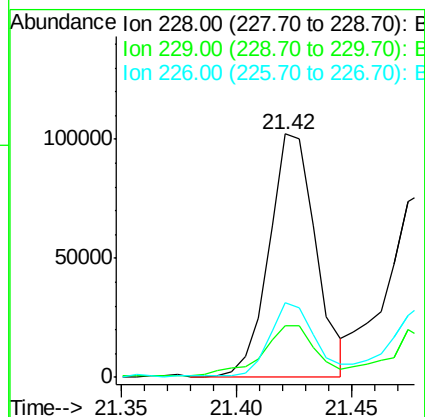
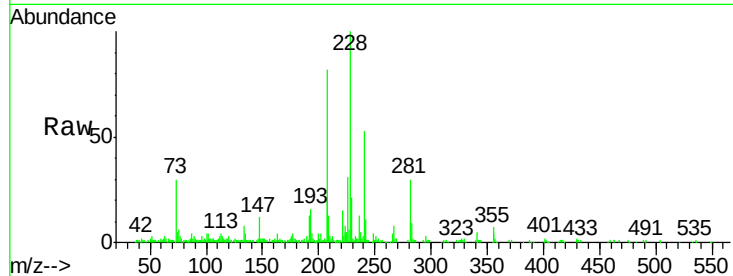
#80  
Benzo(a)anthracene  
Concen: 2.219 ng/ul  
RT: 21.42 min Scan# 3117  
Delta R.T. -0.01 min  
Lab File: BM010545.D  
Acq: 12 Jun 2017 21:09

Instrument :  
BNA\_M  
ClientSampleID :  
F5C57DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.3  | 15.4  | 23.0  |
| 226     | 30.7  | 21.4  | 32.0  |

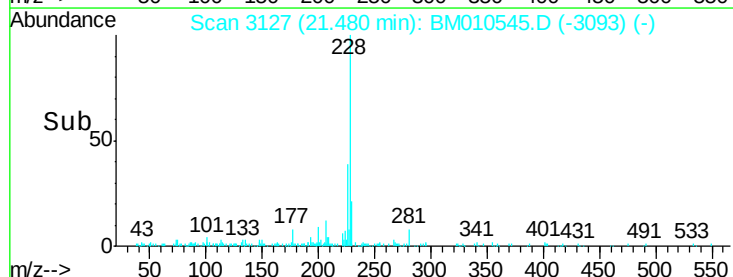
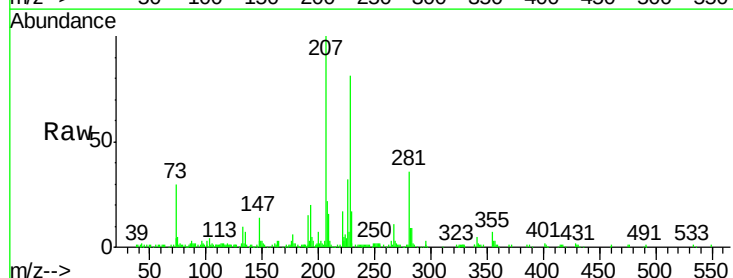
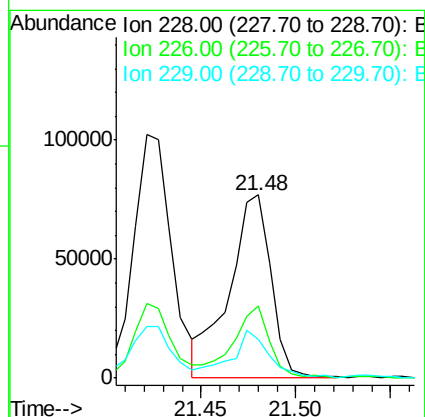
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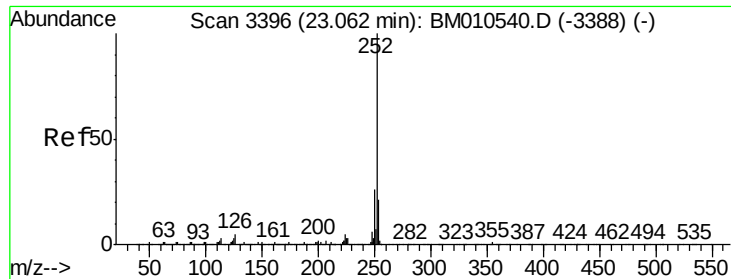
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#82  
Chrysene  
Concen: 2.040 ng/ul m  
RT: 21.48 min Scan# 3127  
Delta R.T. 0.00 min  
Lab File: BM010545.D  
Acq: 12 Jun 2017 21:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 39.5  | 23.4  | 35.2# |
| 229     | 21.5  | 15.5  | 23.3  |





#85

Benzo(b)fluoranthene

Concen: 1.146 ng/ul

RT: 23.06 min Scan# 3395

Delta R.T. -0.01 min

Lab File: BM010545.D

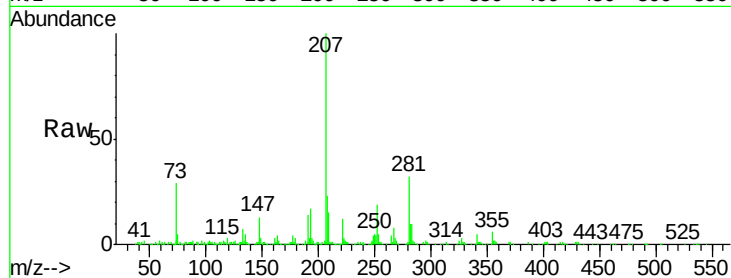
Acq: 12 Jun 2017 21:09

Instrument :

BNA\_M

ClientSampleId :

F5C57DL



| Tgt | Ion  | Ratio | Resp: | Lower | Upper |
|-----|------|-------|-------|-------|-------|
| 252 | 100  |       | 72810 |       |       |
| 253 | 25.2 | 17.9  | 26.9  |       |       |
| 125 | 6.4  | 3.6   | 5.4   |       |       |

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