

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM060615\  
 Data File : BM001588.D  
 Acq On : 06 Jun 2015 11:04  
 Operator : TP/IZ  
 Sample : G2491-03  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SS043MW010-150601

Manual Integrations  
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 6/8/2015 2:48:29 PM

Quant Time: Jun 08 06:17:44 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SIM-BM060615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 08 05:27:25 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.69  | 152  | 23511    | 5.00  | ng    | 0.00     |
| 6) Naphthalene-d8              | 10.47 | 136  | 85405    | 5.00  | ng    | 0.00     |
| 12) Acenaphthene-d10           | 14.35 | 164  | 41758    | 5.00  | ng    | 0.00     |
| 18) Phenanthrene-d10           | 17.09 | 188  | 60873    | 5.00  | ng    | 0.00     |
| 25) Chrysene-d12               | 21.28 | 240  | 71791    | 5.00  | ng    | 0.00     |
| 32) Perylene-d12               | 23.52 | 264  | 65611    | 5.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.28  | 112  | 10698    | 2.06  | ng    | 0.02     |
| 5) Phenol-d6                   | 6.86  | 99   | 9760     | 1.53  | ng    | 0.02     |
| 7) Nitrobenzene-d5             | 8.85  | 82   | 29404    | 5.05  | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol       | 15.83 | 330  | 26050    | 13.03 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl           | 12.96 | 172  | 72119    | 5.60  | ng    | 0.00     |
| 27) Terphenyl-d14              | 19.72 | 244  | 73856    | 7.97  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 2) 1,4-Dioxane                 | 3.21  | 88   | 1040     | 0.33  | ng    | # 93     |
| 9) Naphthalene                 | 10.52 | 128  | 1103     | 0.06  | ng    | # 71     |
| 16) Acenaphthene               | 14.41 | 154  | 77484    | 6.83  | ng    | 99       |
| 17) Fluorene                   | 15.36 | 166  | 47331    | 6.48  | ng    | # 97     |
| 22) Phenanthrene               | 17.12 | 178  | 77898    | 3.67  | ng    | 98       |
| 23) Anthracene                 | 17.19 | 178  | 14735m   | 1.65  | ng    |          |
| 24) Fluoranthene               | 19.15 | 202  | 18205    | 1.10  | ng    | 98       |
| 26) Pyrene                     | 19.52 | 202  | 11061    | 0.48  | ng    | # 92     |
| 30) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 9750     | 0.82  | ng    | 95       |
| 31) Indeno(1,2,3-cd)pyrene     | 25.77 | 276  | 700      | 0.03  | ng    | 92       |

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

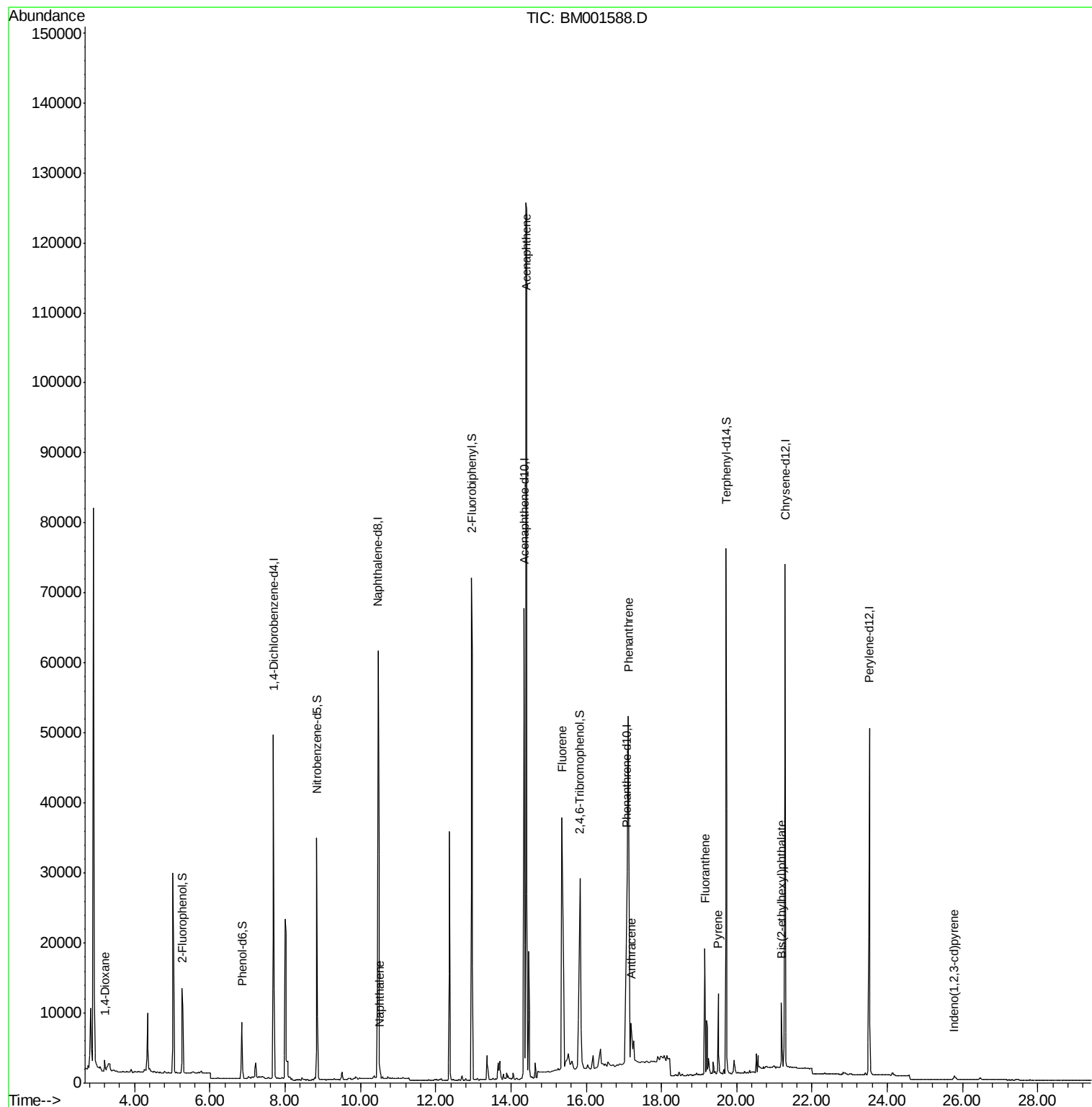
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM060615\  
Data File : BM001588.D  
Acq On : 06 Jun 2015 11:04  
Operator : TP/IZ  
Sample : G2491-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

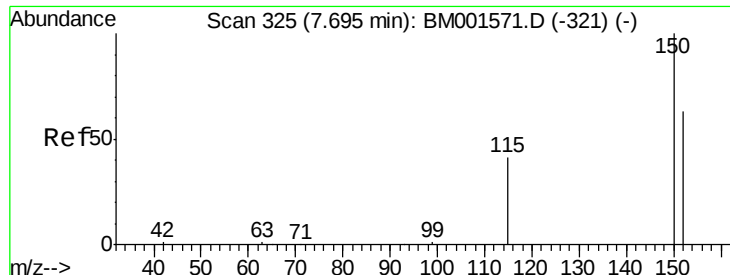
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: Jun 08 06:17:44 2015  
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Response via : Initial Calibration

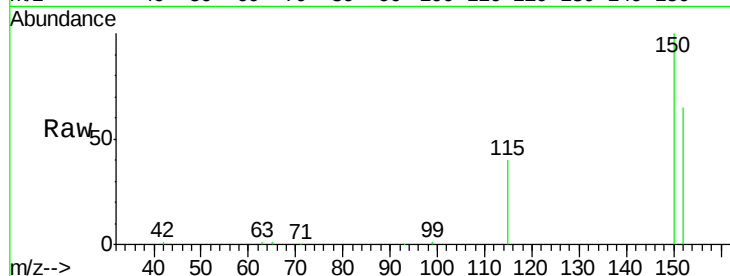




#1

1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 7.69 min Scan# 325  
Delta R.T. -0.00 min  
Lab File: BM001588.D  
Acq: 06 Jun 2015 11:04

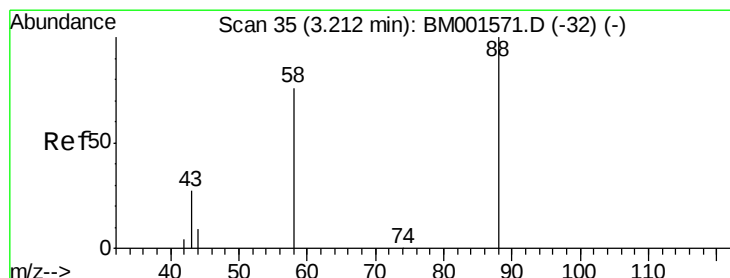
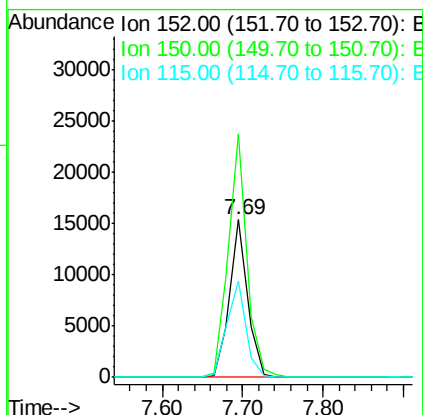
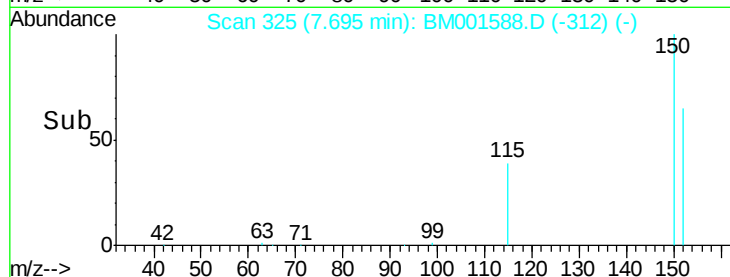
Instrument :  
BNA\_M  
ClientSampleId :  
SS043MW010-150601



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.7 | 126.6 | 190.0 |
| 115     | 61.3  | 51.6  | 77.4  |

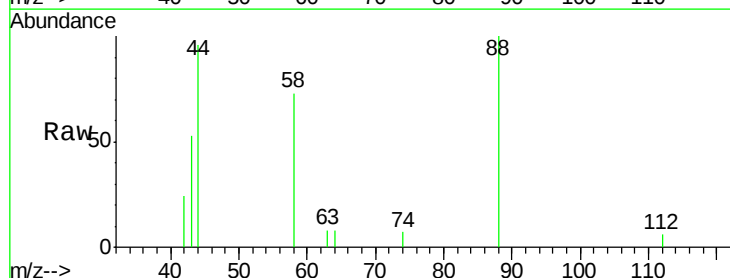
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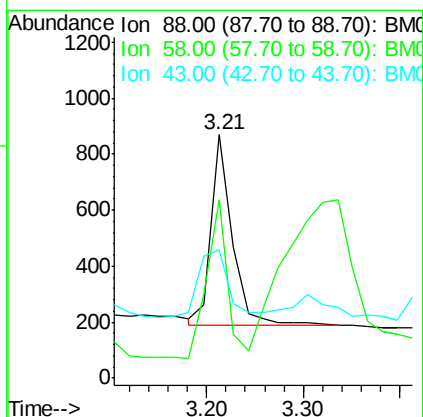
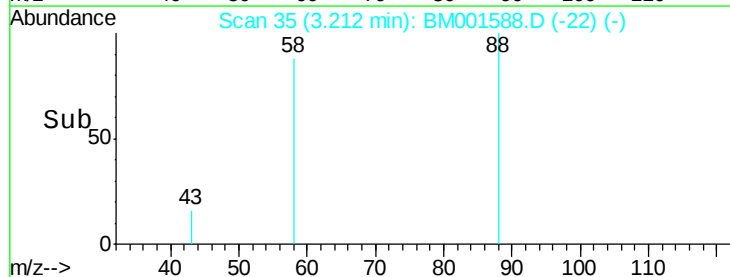


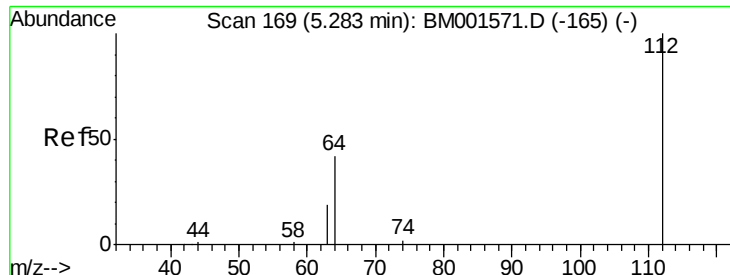
#2

1,4-Dioxane  
Concen: 0.33 ng  
RT: 3.21 min Scan# 35  
Delta R.T. -0.00 min  
Lab File: BM001588.D  
Acq: 06 Jun 2015 11:04



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 80.0  | 66.1  | 99.1  |
| 43      | 50.9  | 32.3  | 48.5  |





#4

2-Fluorophenol

Concen: 2.06 ng

RT: 5.28 min Scan# 169

Delta R.T. 0.02 min

Lab File: BM001588.D

Acq: 06 Jun 2015 11:04

Instrument :

BNA\_M

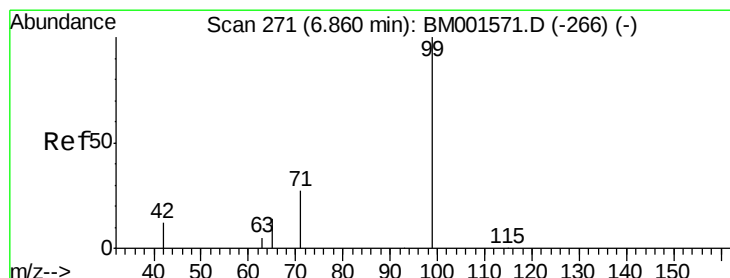
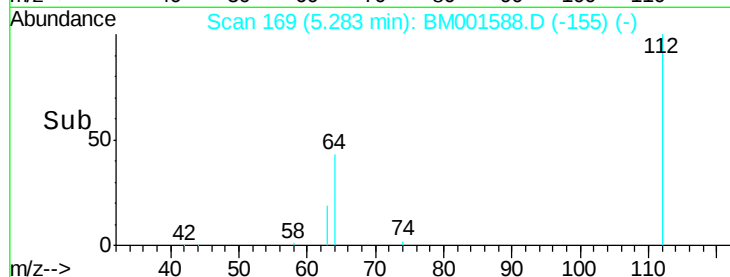
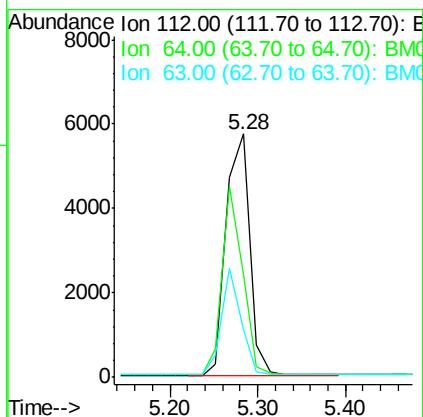
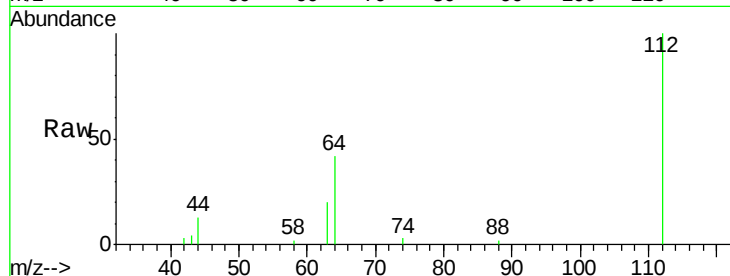
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 10698 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 67.4  | 53.3  | 79.9  |
| 63        | 36.8  | 29.7  | 44.5  |



#5

Phenol-d6

Concen: 1.53 ng

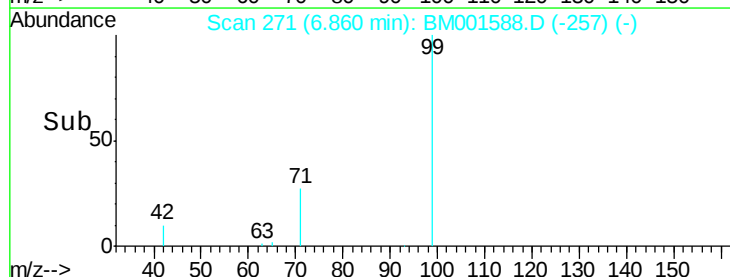
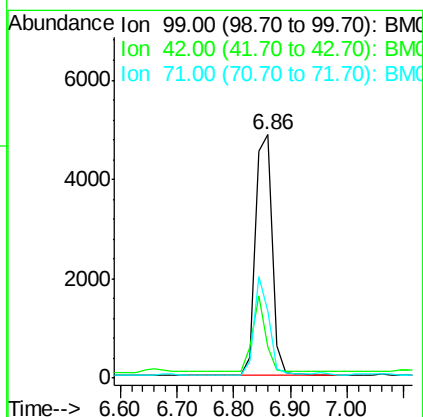
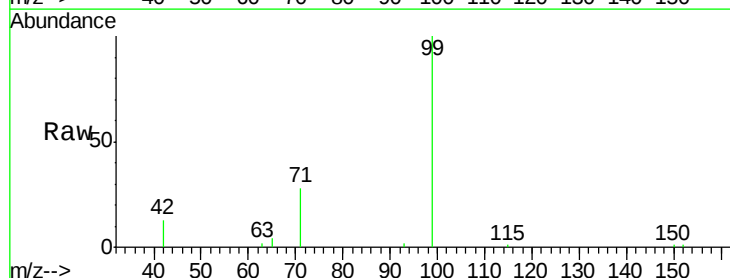
RT: 6.86 min Scan# 271

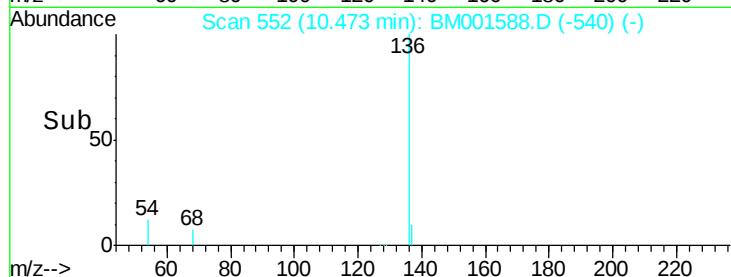
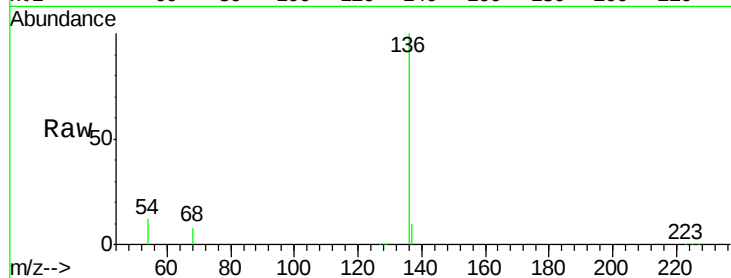
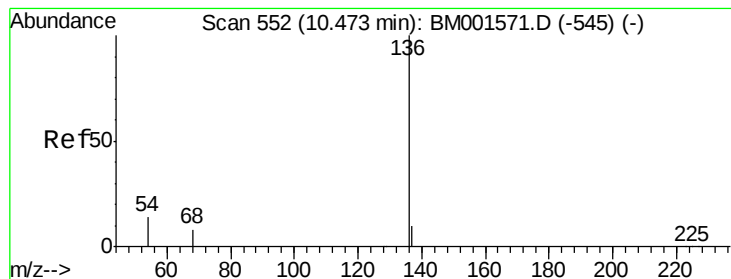
Delta R.T. 0.02 min

Lab File: BM001588.D

Acq: 06 Jun 2015 11:04

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 99    | Resp: | 9760 |
| Ion Ratio | Lower | Upper |      |
| 99        | 100   |       |      |
| 42        | 25.1  | 21.4  | 32.2 |
| 71        | 35.7  | 29.0  | 43.4 |





#6

Naphthalene-d8

Concen: 5.00 ng

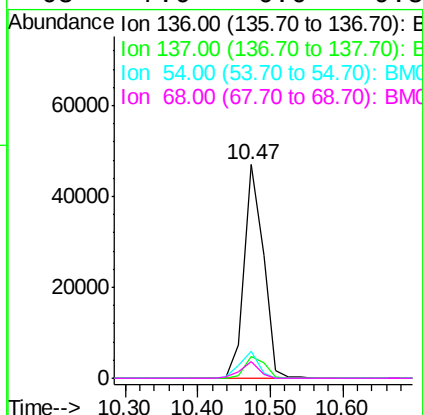
RT: 10.47 min Scan# 552

Delta R.T. -0.00 min

Lab File: BM001588.D

Acq: 06 Jun 2015 11:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 85405 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 10.3  | 8.1   | 12.1  |
| 54        | 12.5  | 11.7  | 17.5  |
| 68        | 7.6   | 6.6   | 9.8   |



Instrument :

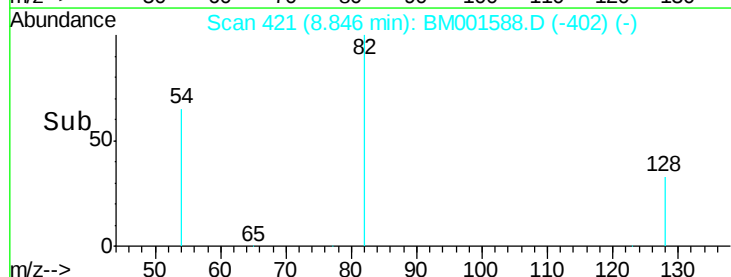
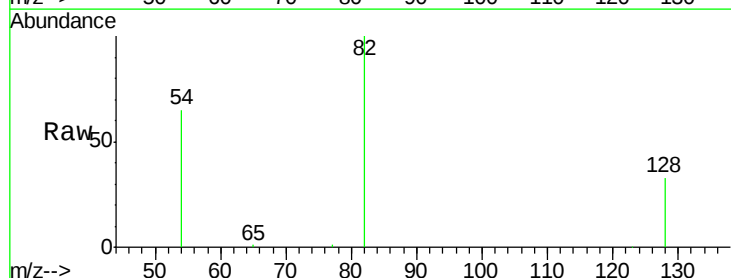
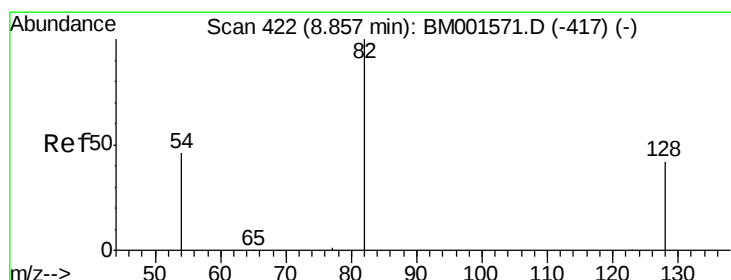
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SS043MW010-150601

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#7

Nitrobenzene-d5

Concen: 5.05 ng

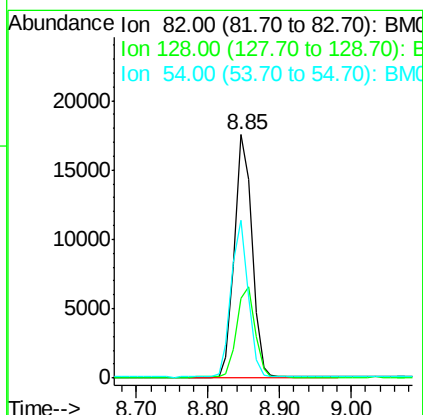
RT: 8.85 min Scan# 421

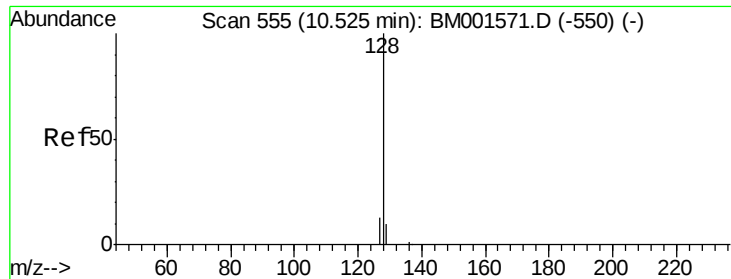
Delta R.T. -0.00 min

Lab File: BM001588.D

Acq: 06 Jun 2015 11:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 29404 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 32.7  | 34.1  | 51.1# |
| 54        | 64.8  | 37.8  | 56.6# |





#9

Naphthalene

Concen: 0.06 ng

RT: 10.52 min Scan# 555

Delta R.T. -0.00 min

Lab File: BM001588.D

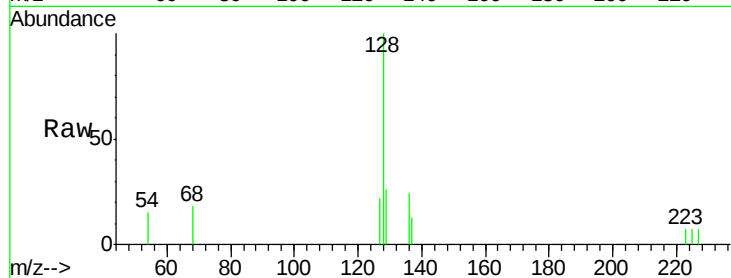
Acq: 06 Jun 2015 11:04

Instrument :

BNA\_M

ClientSampleId :

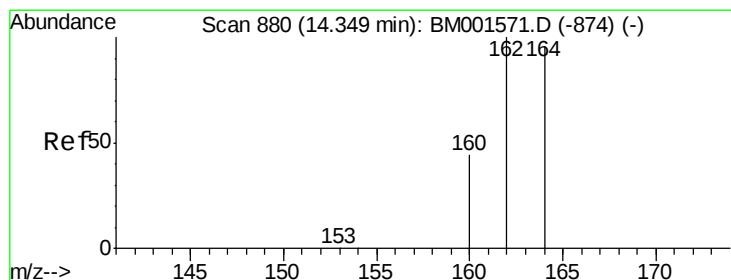
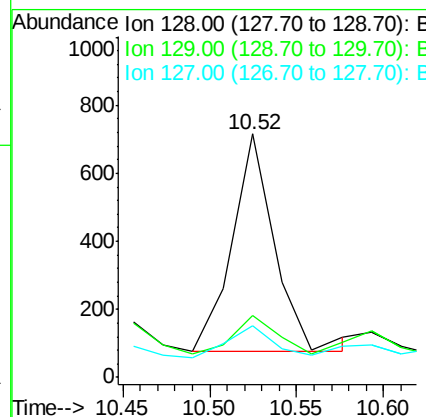
SS043MW010-150601



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 1103  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 25.7  | 8.7   | 13.1# |
| 127       | 21.5  | 10.7  | 16.1# |

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#12

Acenaphthene-d10

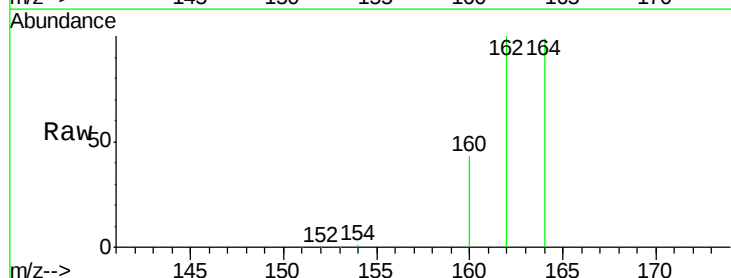
Concen: 5.00 ng

RT: 14.35 min Scan# 880

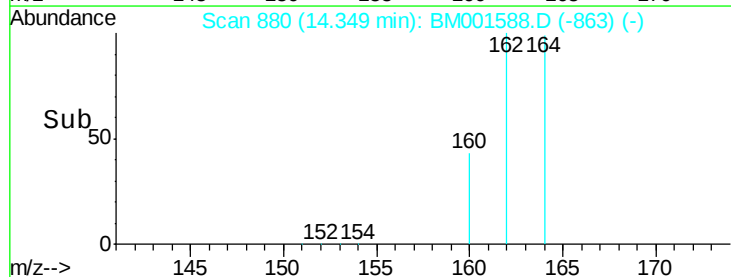
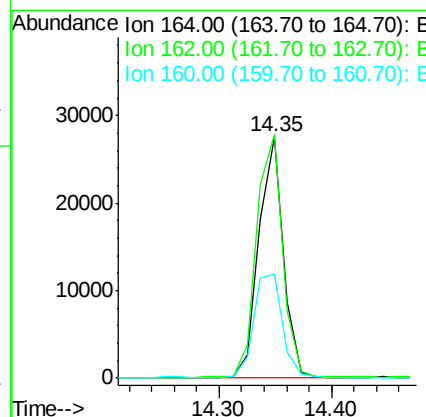
Delta R.T. -0.00 min

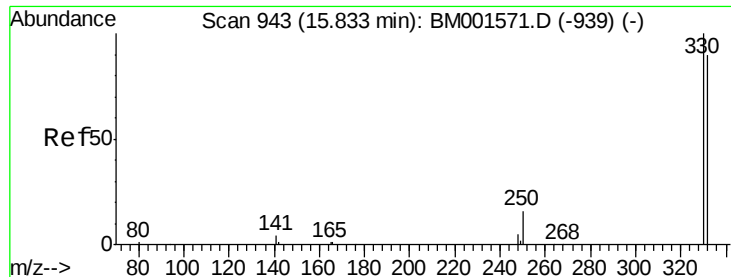
Lab File: BM001588.D

Acq: 06 Jun 2015 11:04



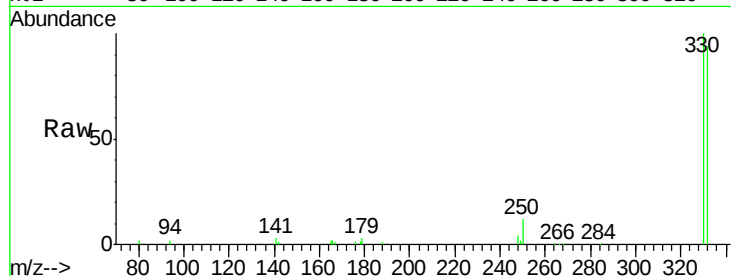
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 41758 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 101.0 | 83.8  | 125.6 |
| 160       | 43.4  | 37.1  | 55.7  |





#13  
 2,4,6-Tribromophenol  
 Concen: 13.03 ng  
 RT: 15.83 min Scan# 943  
 Delta R.T. -0.00 min  
 Lab File: BM001588.D  
 Acq: 06 Jun 2015 11:04

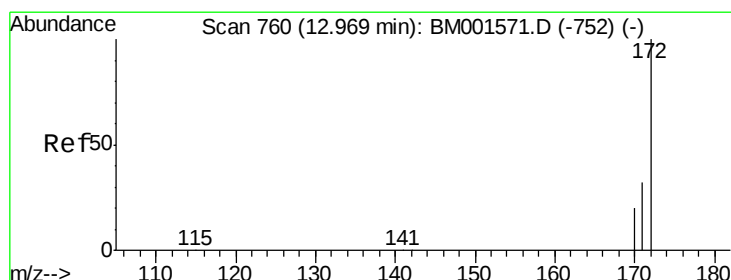
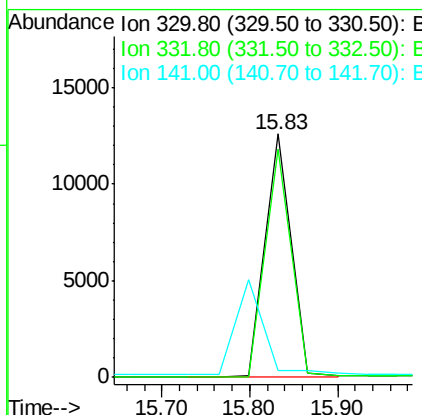
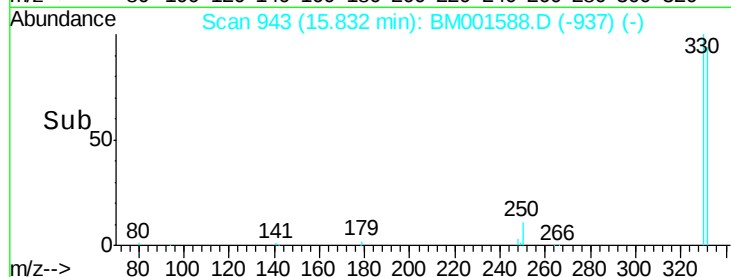
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SS043MW010-150601



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.1  | 72.0  | 108.0 |
| 141     | 0.0   | 0.0   | 0.0   |

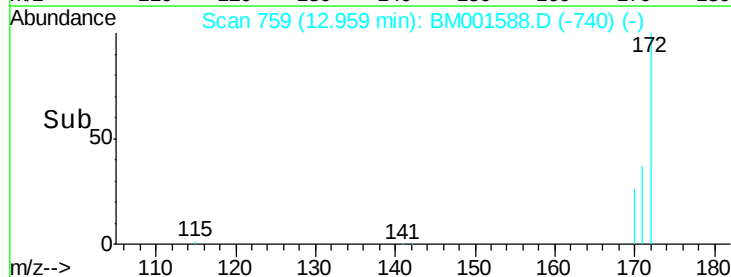
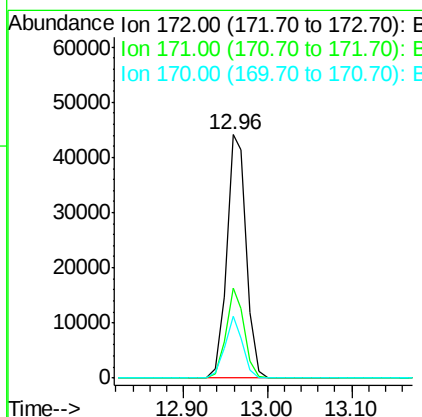
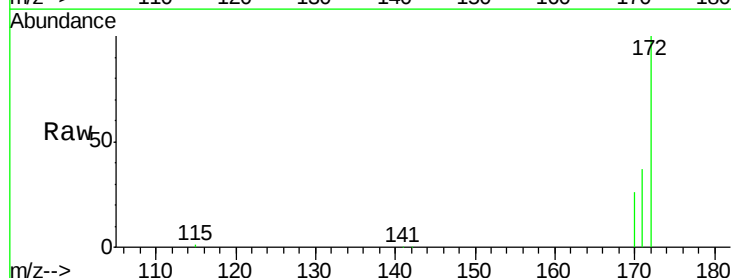
Manual Integrations  
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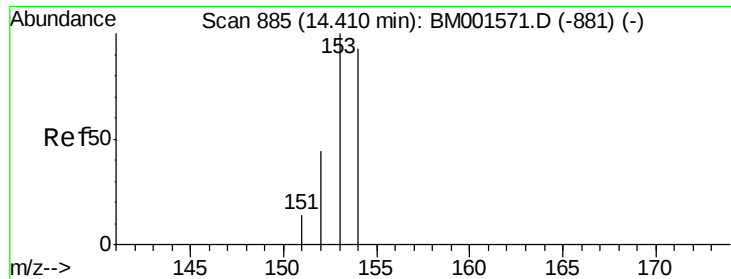
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#14  
 2-Fluorobiphenyl  
 Concen: 5.60 ng  
 RT: 12.96 min Scan# 759  
 Delta R.T. -0.00 min  
 Lab File: BM001588.D  
 Acq: 06 Jun 2015 11:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 26.2  | 39.2  |
| 170     | 25.6  | 16.1  | 24.1  |





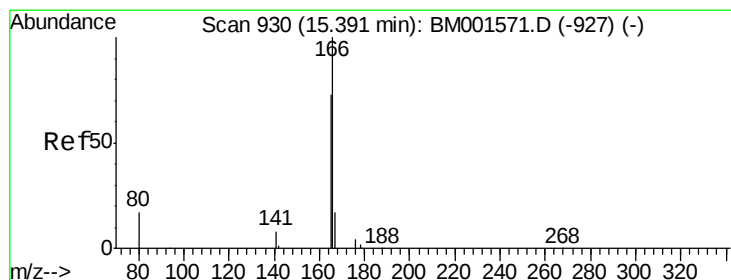
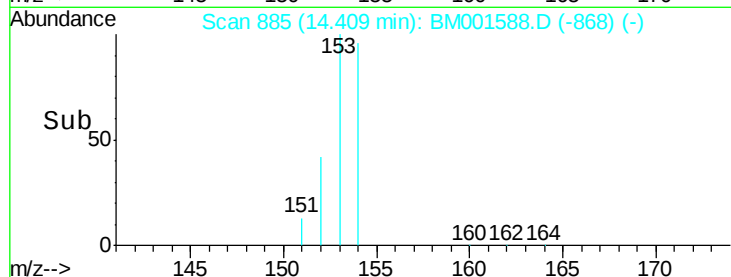
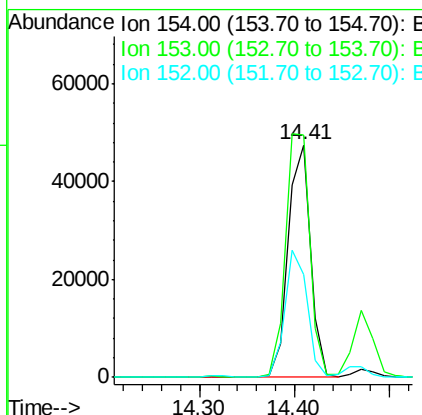
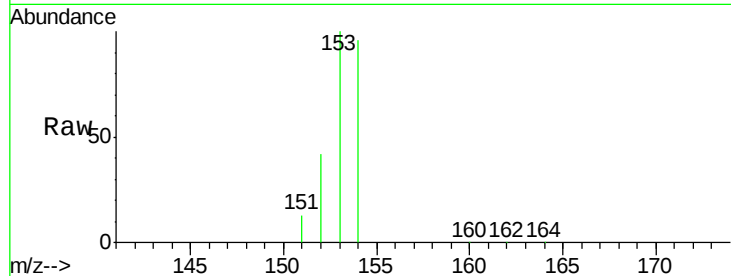
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Acenaphthene  
Concen: 6.83 ng  
RT: 14.41 min Scan# 885  
Delta R.T. -0.00 min  
Lab File: BM001588.D  
Acq: 06 Jun 2015 11:04

Instrument :  
BNA\_M  
ClientSampleId :  
SS043MW010-150601

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.5 | 89.1  | 133.7 |
| 152     | 54.3  | 43.2  | 64.8  |

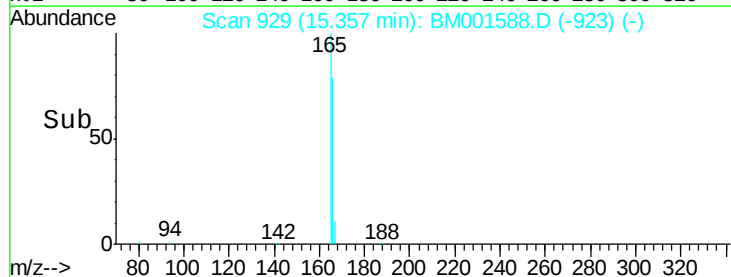
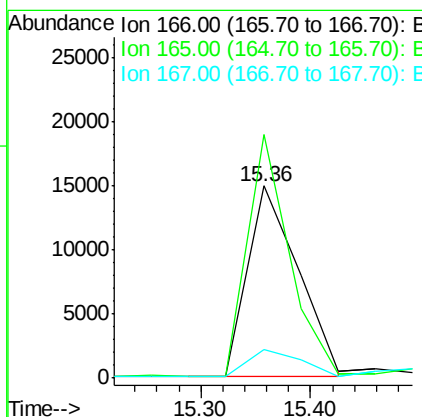
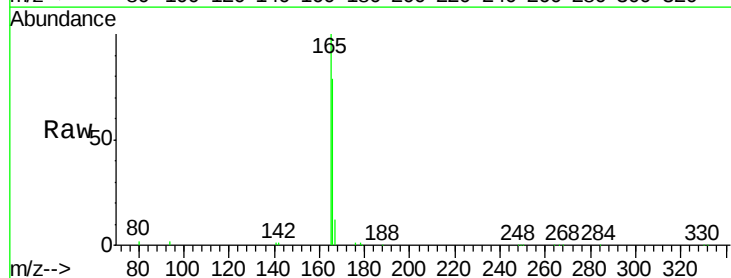
Manual Integrations  
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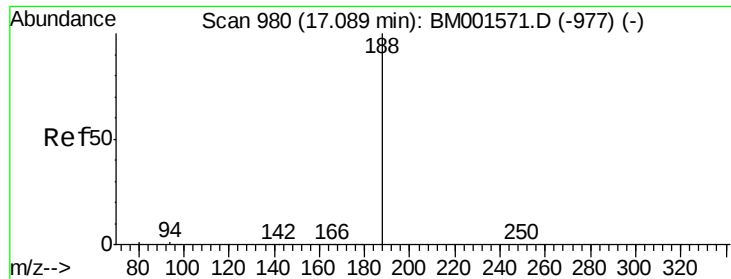
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6/8/2015 2:48:29 PM



#17  
Fluorene  
Concen: 6.48 ng  
RT: 15.36 min Scan# 929  
Delta R.T. -0.00 min  
Lab File: BM001588.D  
Acq: 06 Jun 2015 11:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 105.7 | 0.0   | 0.0#  |
| 167     | 15.2  | 11.3  | 16.9  |





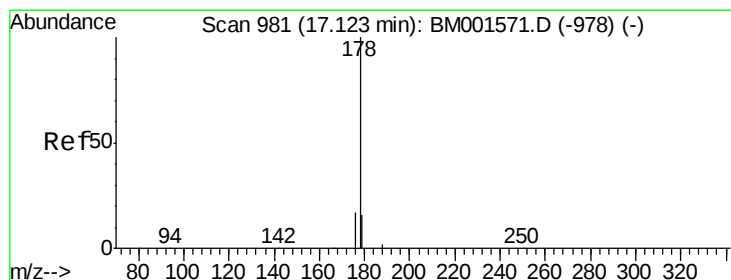
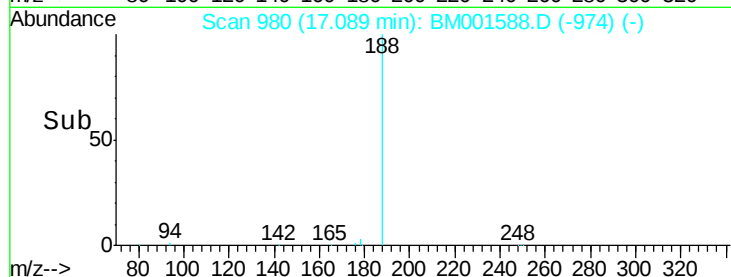
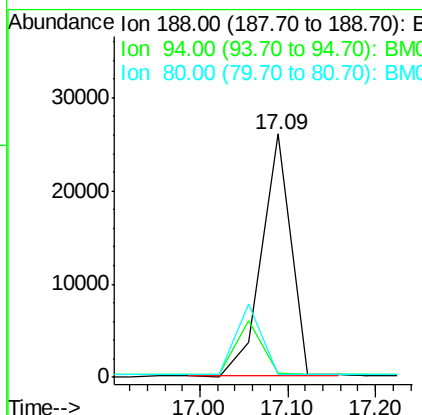
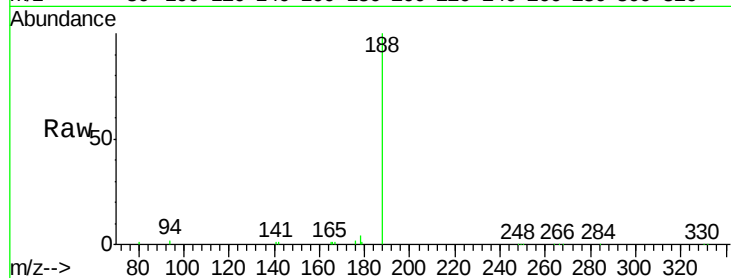
#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.09 min Scan# 980  
Delta R.T. -0.00 min  
Lab File: BM001588.D  
Acq: 06 Jun 2015 11:04

Instrument :  
BNA\_M  
ClientSampleId :  
SS043MW010-150601

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 1.6   | 0.7        | 1.1#  |
| 80      | 1.4   | 0.6        | 1.0#  |

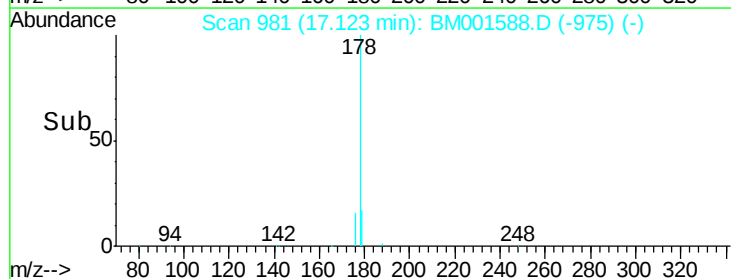
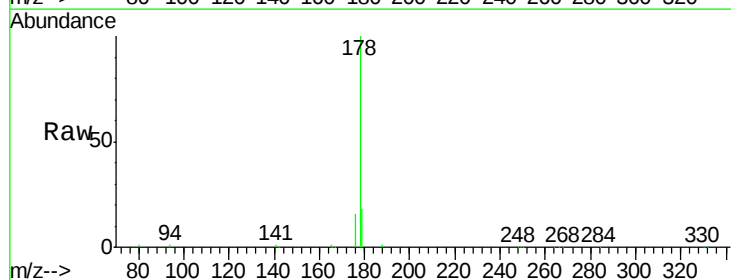
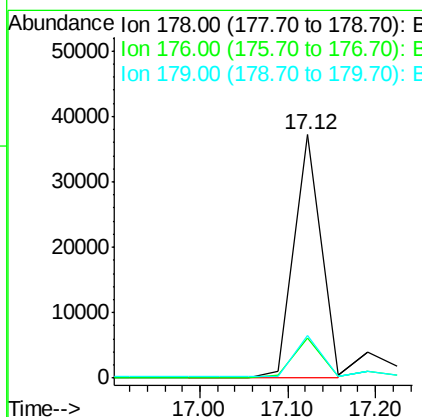
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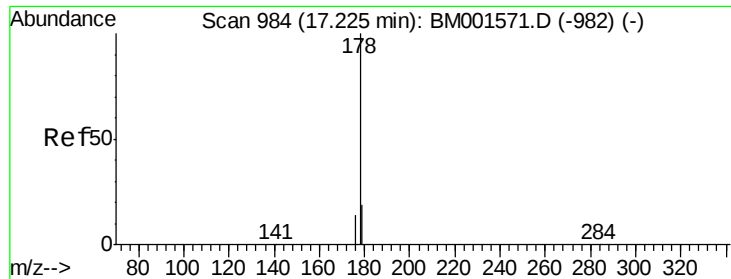
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#22  
Phenanthrene  
Concen: 3.67 ng  
RT: 17.12 min Scan# 981  
Delta R.T. -0.00 min  
Lab File: BM001588.D  
Acq: 06 Jun 2015 11:04

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 16.4  | 13.5       | 20.3  |
| 179     | 17.5  | 13.3       | 19.9  |





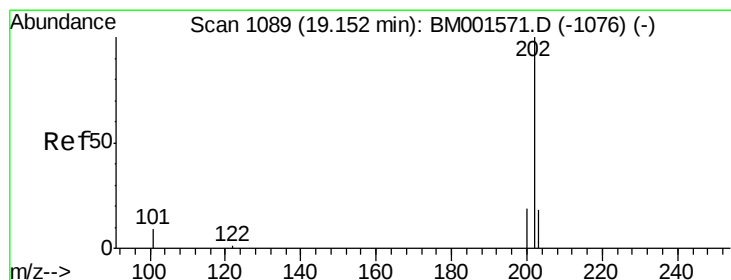
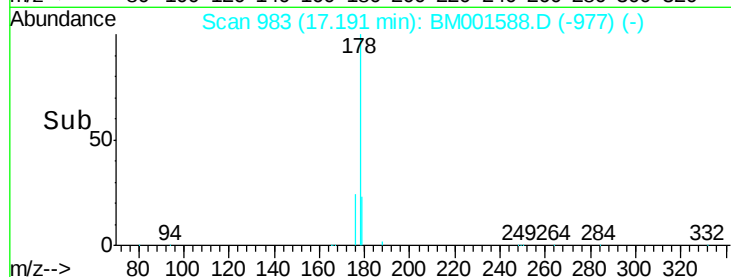
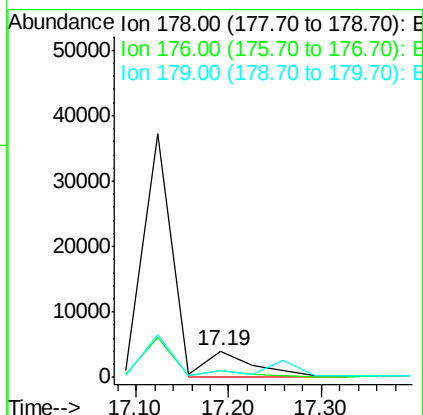
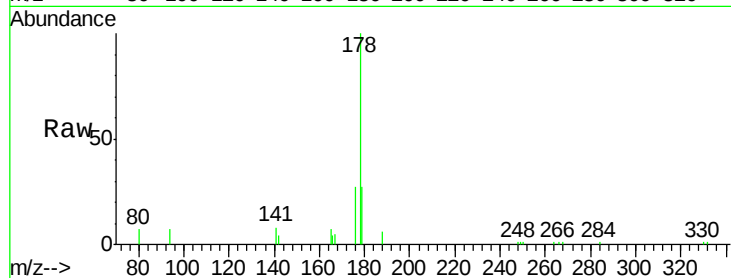
#23  
 Anthracene  
 Concen: 1.65 ng m  
 RT: 17.19 min Scan# 983  
 Delta R.T. -0.00 min  
 Lab File: BM001588.D  
 Acq: 06 Jun 2015 11:04

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SS043MW010-150601

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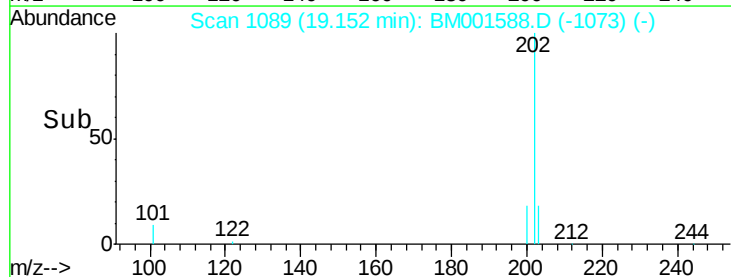
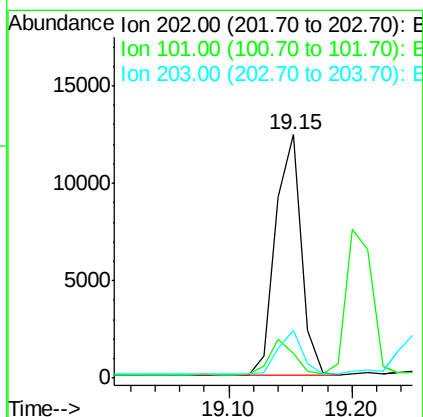
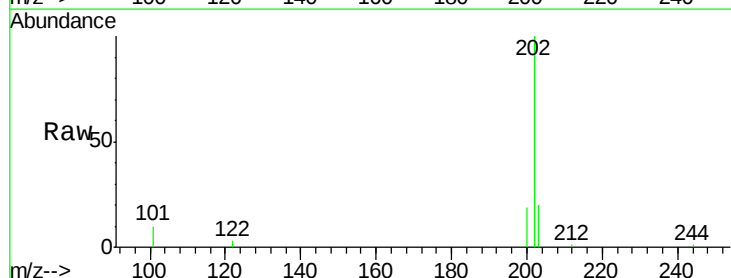
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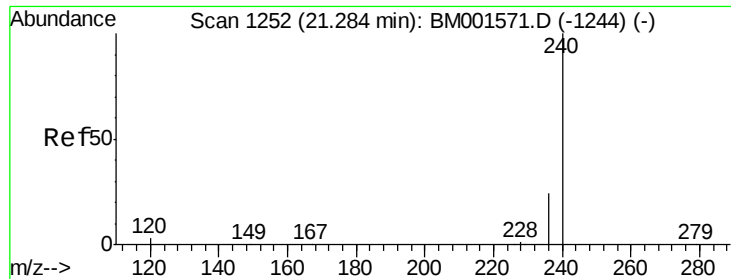
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 103.5 | 45.9  | 68.9# |
| 179     | 109.1 | 33.3  | 49.9# |



#24  
 Fluoranthene  
 Concen: 1.10 ng  
 RT: 19.15 min Scan# 1089  
 Delta R.T. -0.00 min  
 Lab File: BM001588.D  
 Acq: 06 Jun 2015 11:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.5  | 10.0  | 15.0  |
| 203     | 17.4  | 13.9  | 20.9  |





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.28 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BM001588.D

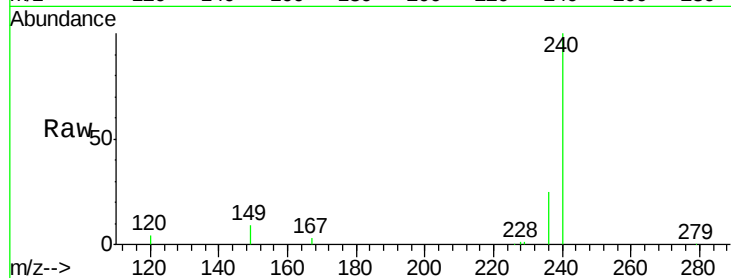
Acq: 06 Jun 2015 11:04

Instrument :

BNA\_M

ClientSampleId :

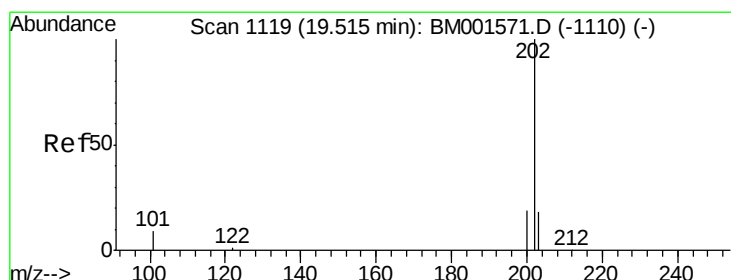
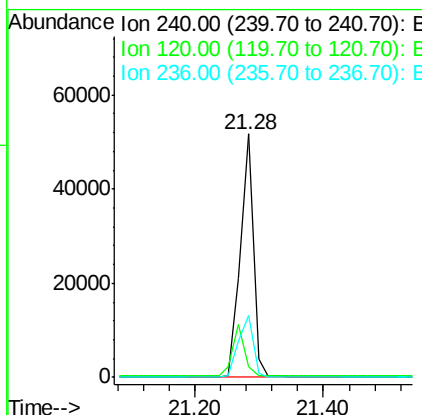
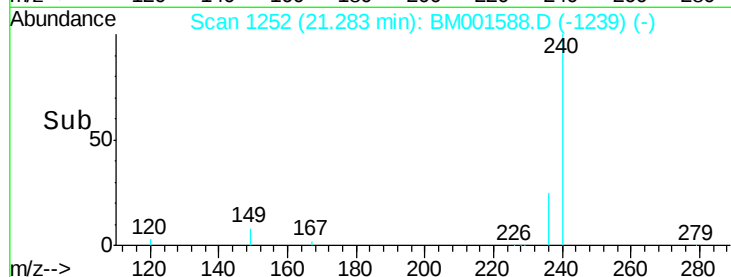
SS043MW010-150601



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 71791 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 4.1   | 2.2   | 3.2#  |
| 236       | 25.4  | 19.5  | 29.3  |

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#26

Pyrene

Concen: 0.48 ng

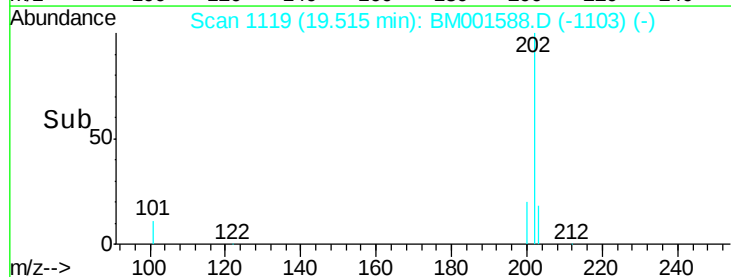
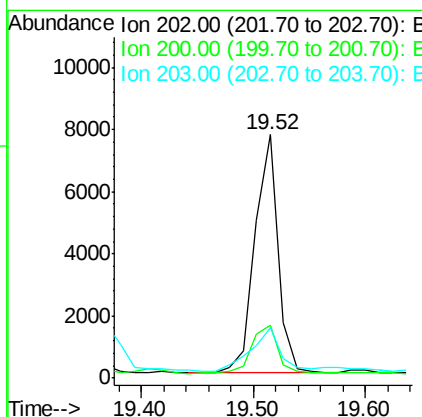
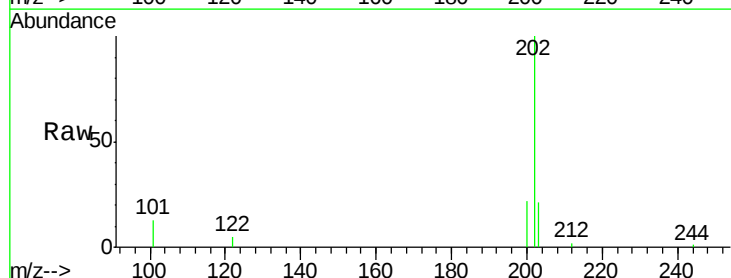
RT: 19.52 min Scan# 1119

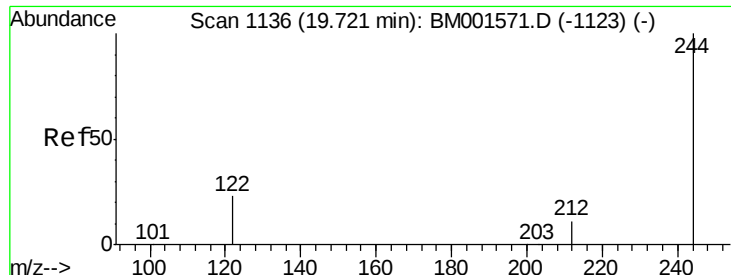
Delta R.T. -0.00 min

Lab File: BM001588.D

Acq: 06 Jun 2015 11:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 11061 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 22.9  | 16.6  | 24.8  |
| 203       | 22.7  | 13.9  | 20.9# |





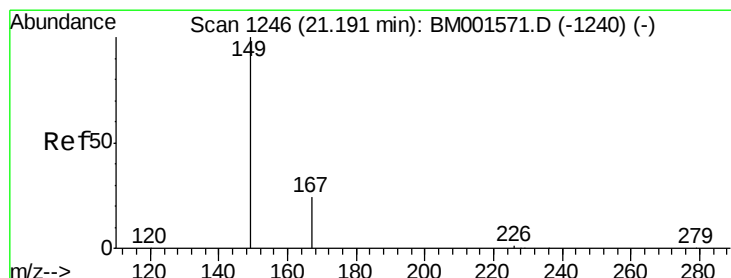
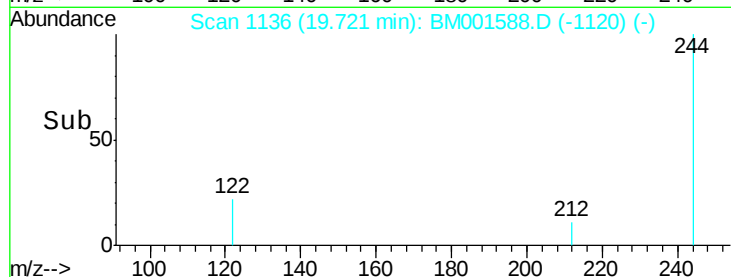
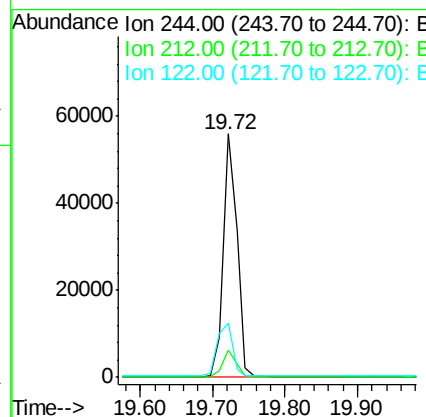
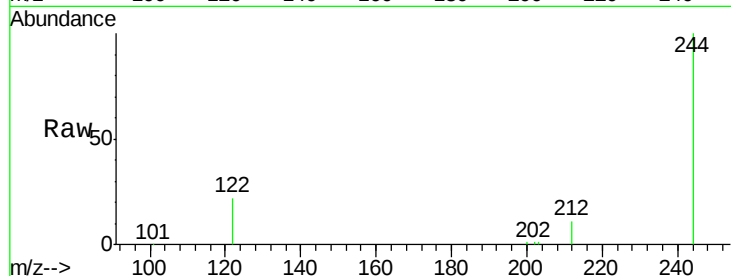
#27  
 Terphenyl-d14  
 Concen: 7.97 ng  
 RT: 19.72 min Scan# 1136  
 Delta R.T. -0.00 min  
 Lab File: BM001588.D  
 Acq: 06 Jun 2015 11:04

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SS043MW010-150601

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 11.5  | 9.6   | 14.4  |
| 122     | 22.4  | 19.0  | 28.4  |

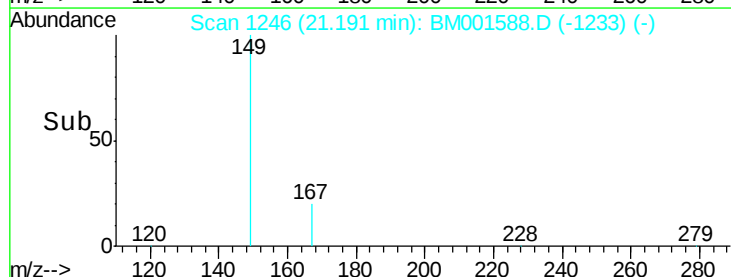
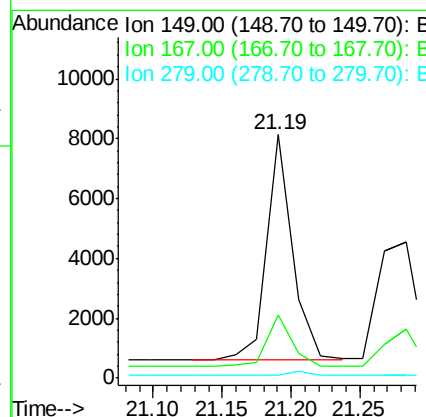
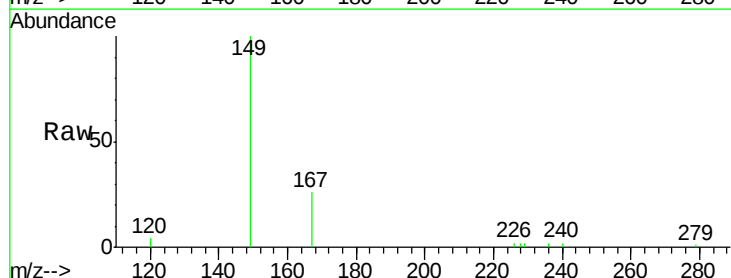
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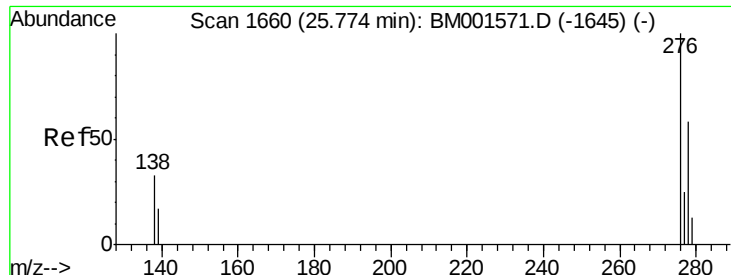
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#30  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.82 ng  
 RT: 21.19 min Scan# 1246  
 Delta R.T. -0.00 min  
 Lab File: BM001588.D  
 Acq: 06 Jun 2015 11:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 22.3  | 20.2  | 30.2  |
| 279     | 2.0   | 1.8   | 2.6   |





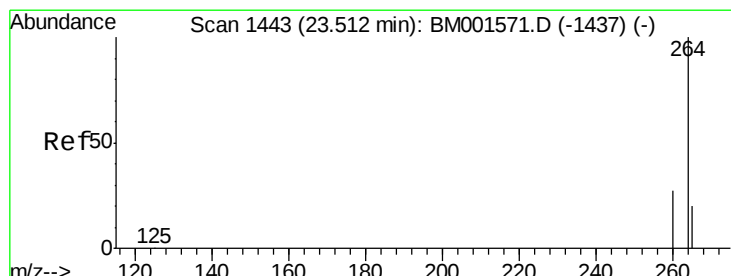
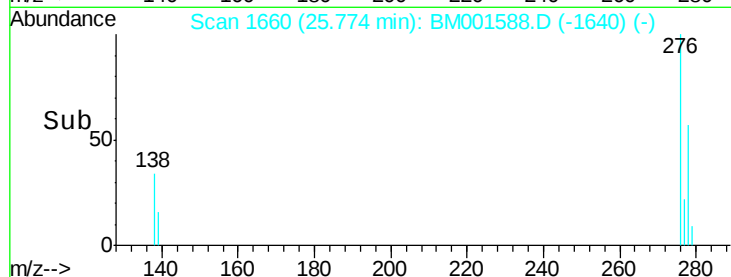
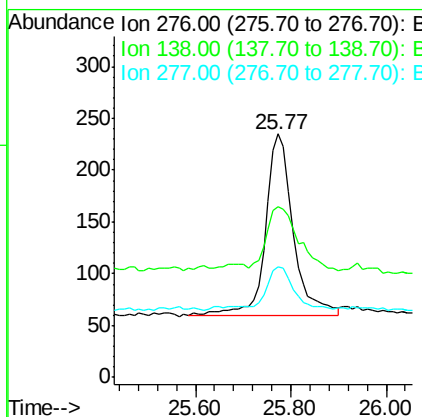
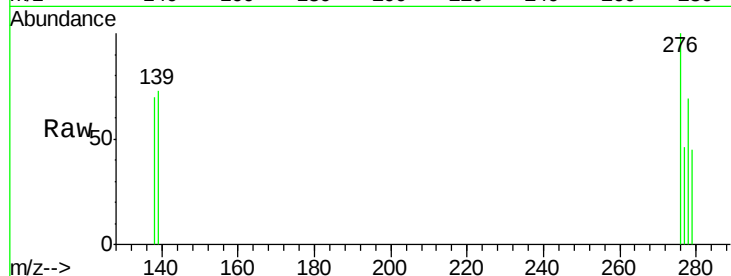
#31  
Indeno(1,2,3-cd)pyrene  
Concen: 0.03 ng  
RT: 25.77 min Scan# 1660  
Delta R.T. 0.01 min  
Lab File: BM001588.D  
Acq: 06 Jun 2015 11:04

Instrument :  
BNA\_M  
ClientSampleId :  
SS043MW010-150601

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 40.9  | 28.0  | 42.0  |
| 277     | 22.6  | 19.7  | 29.5  |

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#32  
Perylene-d12  
Concen: 5.00 ng  
RT: 23.52 min Scan# 1444  
Delta R.T. 0.01 min  
Lab File: BM001588.D  
Acq: 06 Jun 2015 11:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 21.6  | 32.4  |
| 265     | 22.5  | 16.5  | 24.7  |

