

Data Path : Z:\HPCHEM1\BNA M\DATA\BM110515\  
 Data File : BM003059.D  
 Acq On : 05 Nov 2015 11:21  
 Operator : UM/IZ  
 Sample : SSTDICV001  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ICVBM110415

Manual Integrations  
 APPROVED

Mmdadoda  
 11/6/2015 3:45:59 PM

Quant Time: Nov 16 18:53:40 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM110415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 16 18:52:15 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 114002   | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.54 | 136  | 465746   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.39 | 164  | 242113   | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.14 | 188  | 529148   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.33 | 240  | 390858   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.60 | 264  | 341100   | 5.00 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.35  | 112 | 23403 | 0.97 | ng | 0.00 |
| 5) Phenol-d6                | 6.92  | 99  | 28296 | 1.01 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.91  | 82  | 21200 | 0.99 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.88 | 330 | 6296  | 1.00 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.03 | 172 | 72181 | 0.95 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.77 | 244 | 54195 | 0.96 | ng | 0.00 |

|                                |       |     |        |      |        |       |
|--------------------------------|-------|-----|--------|------|--------|-------|
| Target Compounds               |       |     |        |      | Qvalue |       |
| 2) 1,4-Dioxane                 | 3.26  | 88  | 10407  | 0.99 | ng     | 97    |
| 3) n-Nitrosodimethylamine      | 3.57  | 42  | 10139  | 0.95 | ng     | 95    |
| 6) bis(2-Chloroethyl)ether     | 7.17  | 93  | 26290  | 0.97 | ng     | 100   |
| 9) Nitrobenzene                | 8.95  | 77  | 22972  | 0.99 | ng     | 99    |
| 10) Naphthalene                | 10.60 | 128 | 97581  | 0.97 | ng     | 98    |
| 11) Hexachlorobutadiene        | 10.89 | 225 | 14902  | 0.96 | ng     | 99    |
| 12) 2-Methylnaphthalene        | 12.22 | 142 | 64207  | 0.99 | ng     | 94    |
| 16) Acenaphthylene             | 14.11 | 152 | 92331  | 0.98 | ng     | 99    |
| 17) Acenaphthene               | 14.46 | 154 | 62912  | 0.97 | ng     | # 100 |
| 18) Fluorene                   | 15.46 | 166 | 65848  | 0.95 | ng     | # 11  |
| 20) 4-Bromophenyl-phenylether  | 16.32 | 248 | 15379  | 0.93 | ng     | # 40  |
| 21) Hexachlorobenzene          | 16.45 | 284 | 22544  | 0.96 | ng     | # 79  |
| 22) Pentachlorophenol          | 16.81 | 266 | 6732   | 0.97 | ng     | # 73  |
| 23) Phenanthrene               | 17.16 | 178 | 94562  | 0.87 | ng     | 99    |
| 24) Anthracene                 | 17.27 | 178 | 106830 | 0.95 | ng     | 98    |
| 25) Fluoranthene               | 19.21 | 202 | 103003 | 0.92 | ng     | 100   |
| 27) Benzidine                  | 19.38 | 184 | 29775  | 0.99 | ng     | 96    |
| 28) Pyrene                     | 19.57 | 202 | 111220 | 0.98 | ng     | 100   |
| 30) Benzo(a)anthracene         | 21.31 | 228 | 95885m | 0.97 | ng     |       |
| 31) 3,3'-Dichlorobenzidine     | 21.25 | 252 | 24354  | 0.98 | ng     | # 75  |
| 32) Chrysene                   | 21.37 | 228 | 86061  | 0.80 | ng     | 90    |
| 33) Bis(2-ethylhexyl)phthalate | 21.25 | 149 | 45864  | 1.08 | ng     | # 93  |
| 34) Indeno(1,2,3-cd)pyrene     | 25.89 | 276 | 103473 | 1.07 | ng     | 94    |
| 36) Benzo(b)fluoranthene       | 22.91 | 252 | 95724  | 0.92 | ng     | 99    |
| 37) Benzo(k)fluoranthene       | 22.96 | 252 | 91303  | 0.98 | ng     | 99    |
| 38) Benzo(a)pyrene             | 23.50 | 252 | 80808  | 0.92 | ng     | 99    |
| 39) Dibenzo(a,h)anthracene     | 25.91 | 278 | 83392  | 0.98 | ng     | 96    |
| 40) Benzo(g,h,i)perylene       | 26.58 | 276 | 86285  | 0.94 | ng     | 99    |

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

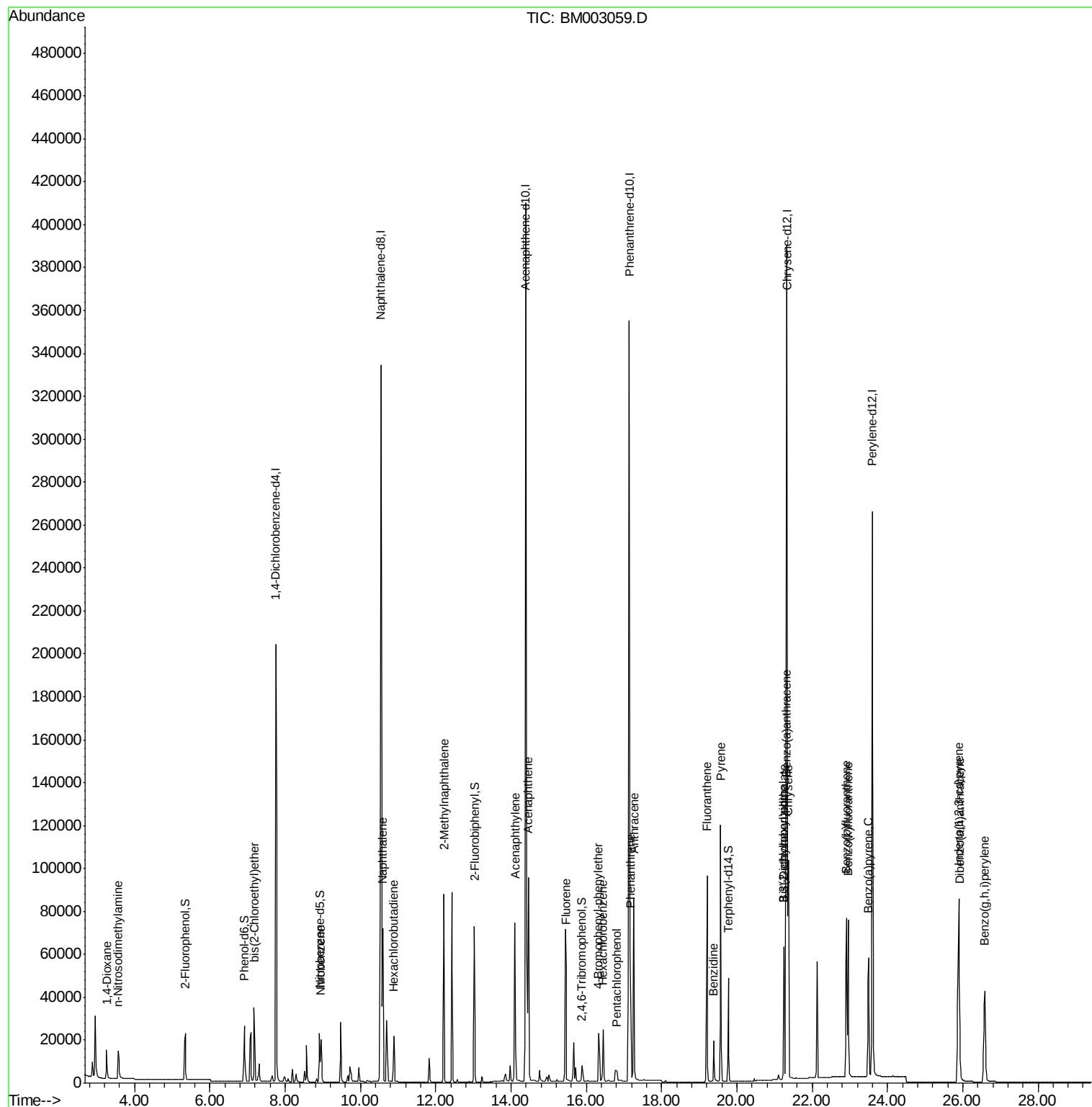
Data Path : Z:\HPCHEM1\BNA M\DATA\BM110515\  
Data File : BM003059.D  
Acq On : 05 Nov 2015 11:21  
Operator : UM/IZ  
Sample : SSTDICV001  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

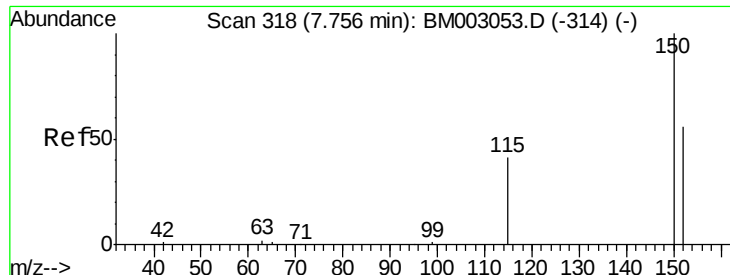
Instrument :  
BNA\_M  
ClientSampleId :  
ICVBM110415

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Quant Time: Nov 16 18:53:40 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM110415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 16 18:52:15 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.76 min Scan# 318

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

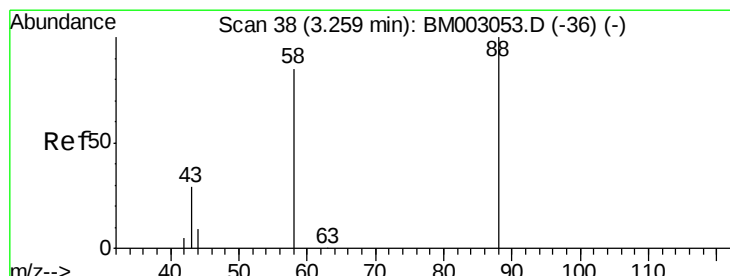
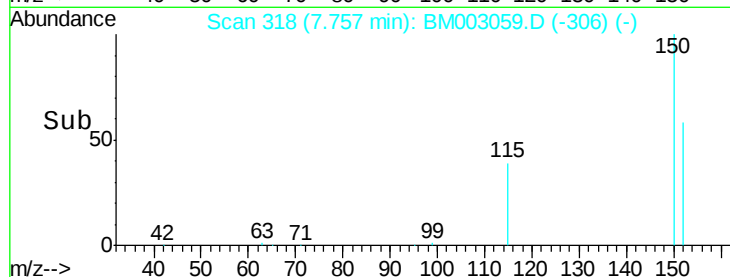
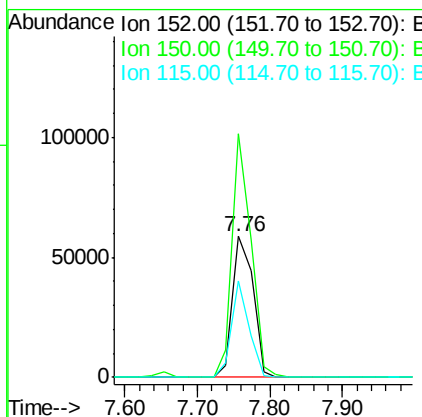
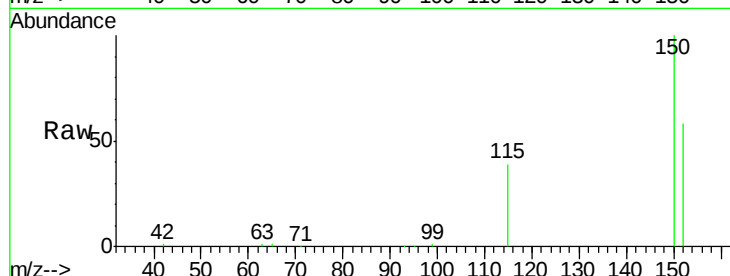
ClientSampleId :

ICVBM110415

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 114002 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 172.7 | 143.6 | 215.4  |
| 115       | 68.1  | 58.5  | 87.7   |

Manual Integrations  
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#2

1,4-Dioxane

Concen: 0.99 ng

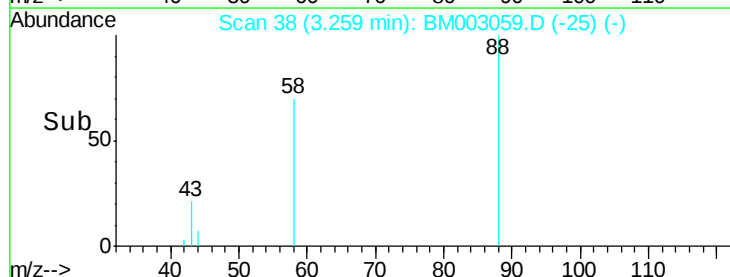
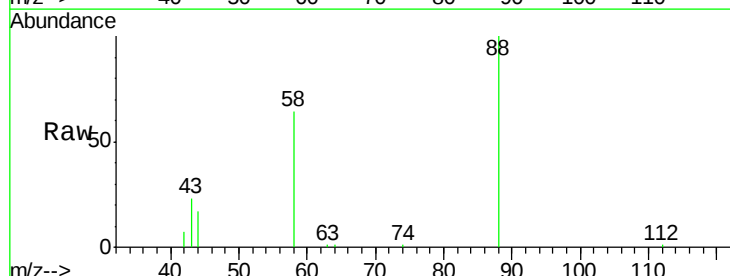
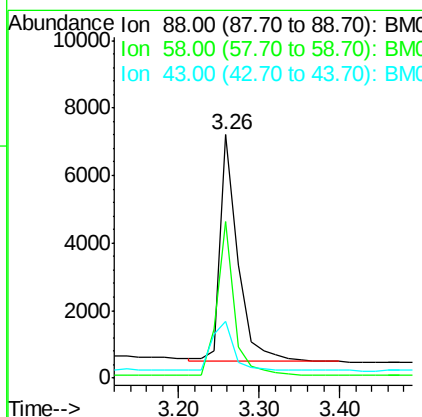
RT: 3.26 min Scan# 38

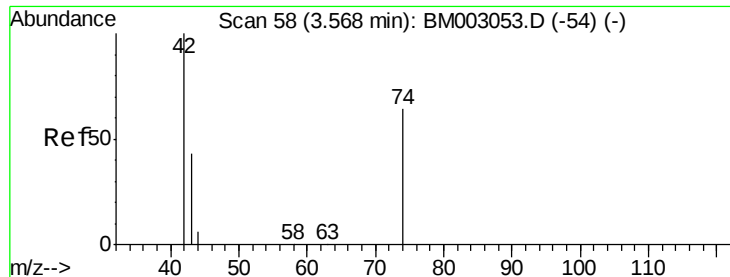
Delta R.T. 0.00 min

Lab File: BM003059.D

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 88    | Resp: | 10407 |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 58        | 66.0  | 55.2  | 82.8  |
| 43        | 26.7  | 21.8  | 32.6  |





#3

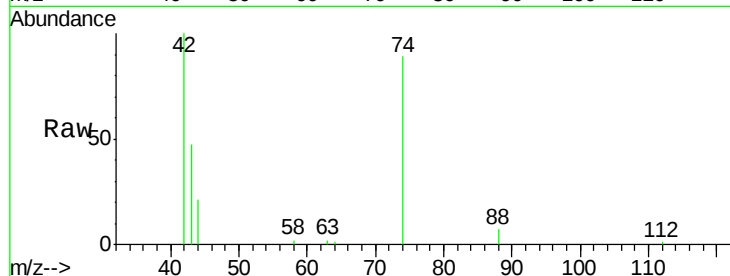
n-Nitrosodimethylamine  
Concen: 0.95 ng  
RT: 3.57 min Scan# 58  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

Instrument :  
BNA\_M  
ClientSampleId :  
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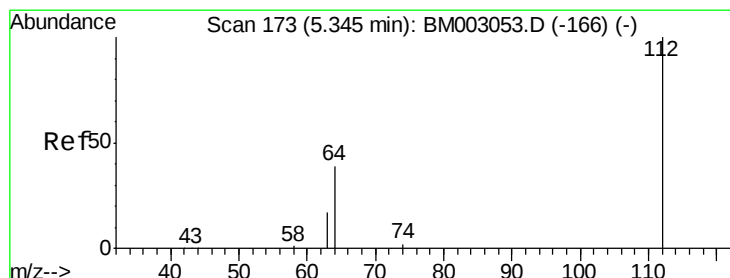
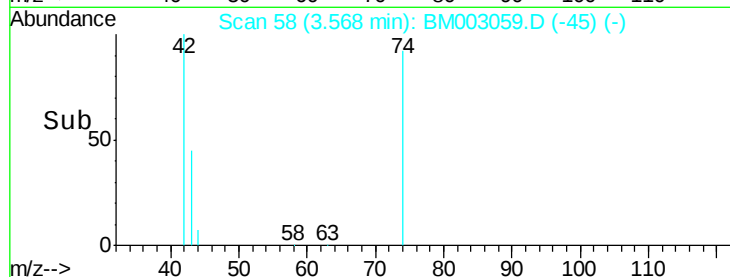
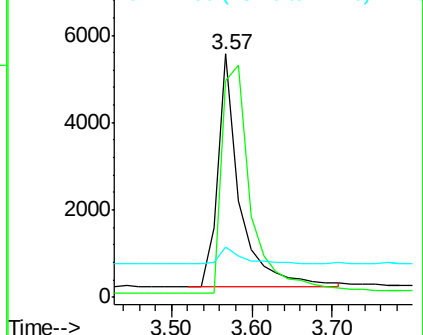
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 132.1 | 101.0 | 151.4 |
| 44      | 7.5   | 6.3   | 9.5   |

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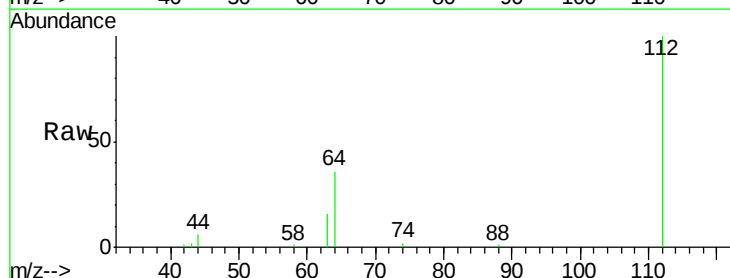
Abundance Ion 42.00 (41.70 to 42.70): BM003053.D (-54) (-)



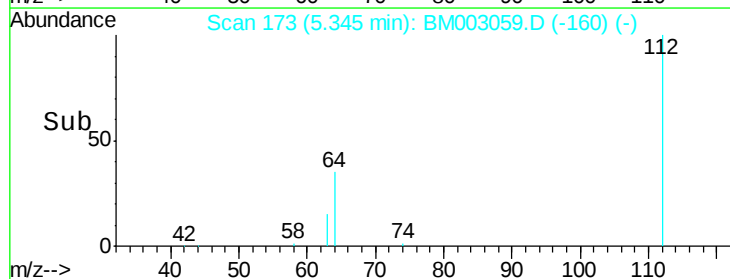
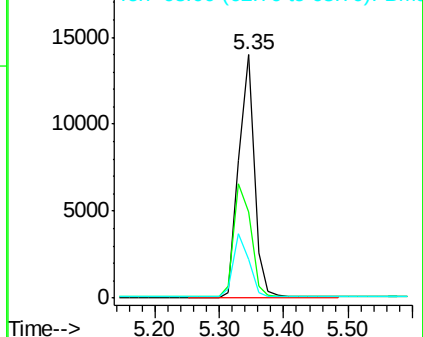
#4

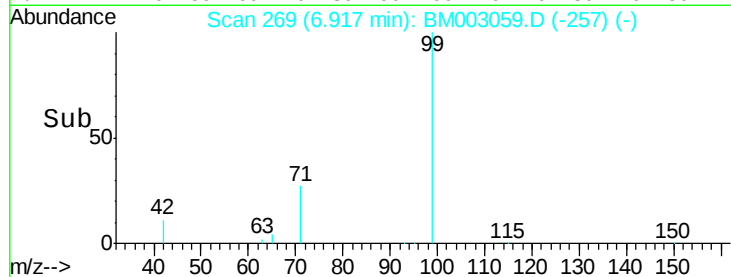
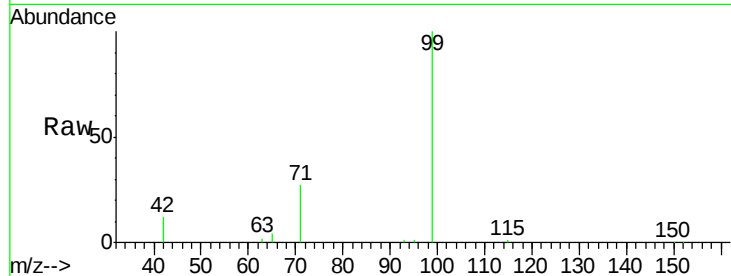
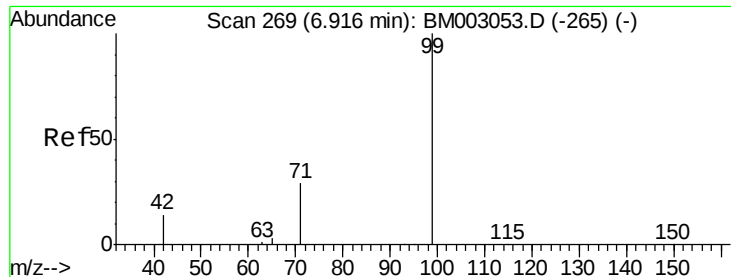
2-Fluorophenol  
Concen: 0.97 ng  
RT: 5.35 min Scan# 173  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.0  | 41.2  | 61.8  |
| 63      | 26.5  | 21.2  | 31.8  |



Abundance Ion 112.00 (111.70 to 112.70): BM003053.D (-166) (-)





#5

Phenol-d6

Concen: 1.01 ng

RT: 6.92 min Scan# 269

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 28296 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 17.9  | 14.6  | 22.0  |
| 71       | 29.2  | 23.3  | 34.9  |

Instrument :

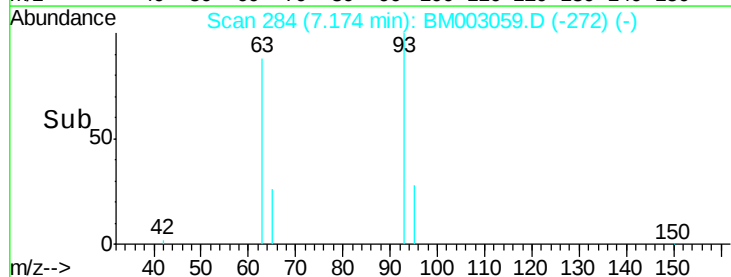
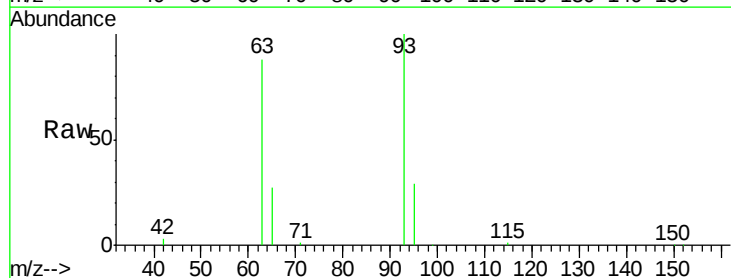
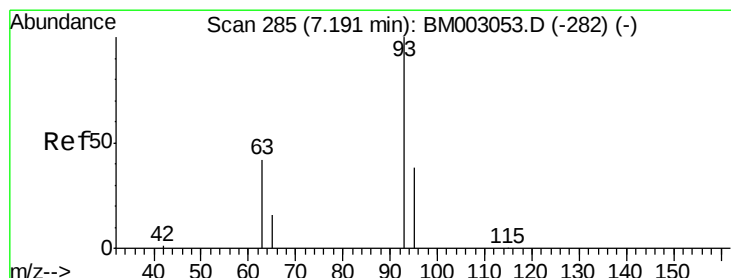
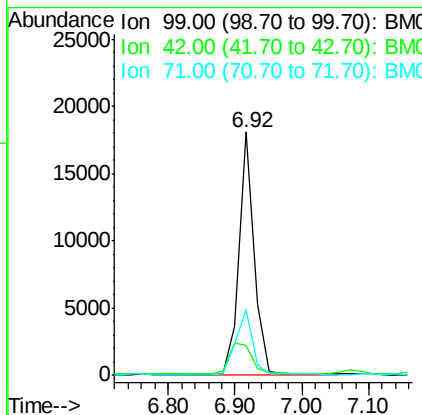
BNA\_M

ClientSampleId :

ICVBM110415

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#6

bis(2-Chloroethyl)ether

Concen: 0.97 ng

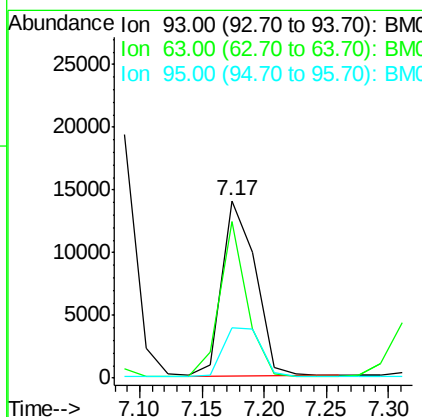
RT: 7.17 min Scan# 284

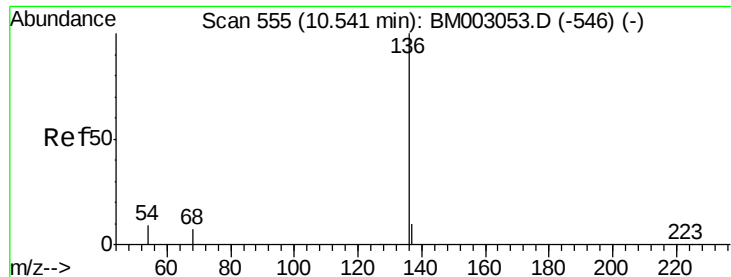
Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 26290 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 72.6  | 58.2  | 87.4  |
| 95       | 32.6  | 26.2  | 39.4  |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.54 min Scan# 556

Delta R.T. 0.00 min

Lab File: BM003059.D

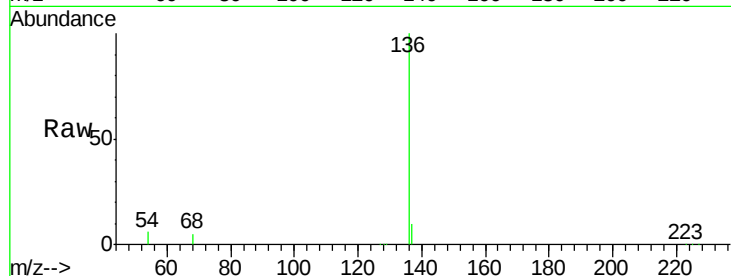
Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

ClientSampleId :

ICVBM110415



Tot Ion: 136 Resp: 465746

Ion Ratio Lower Upper

136 100

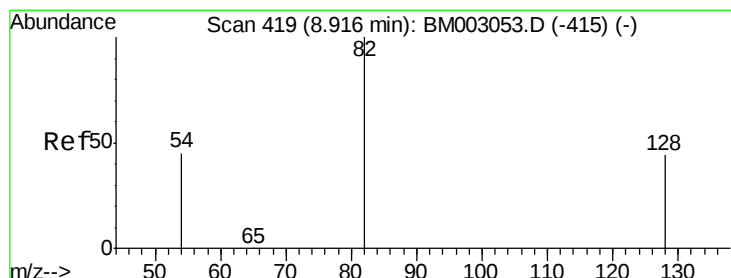
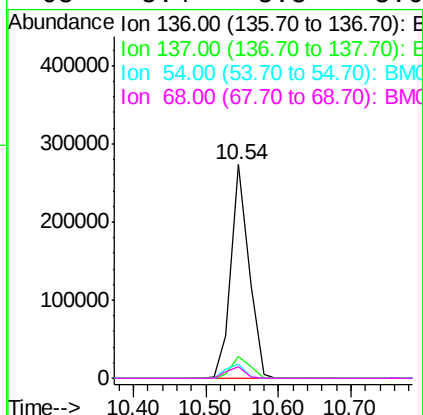
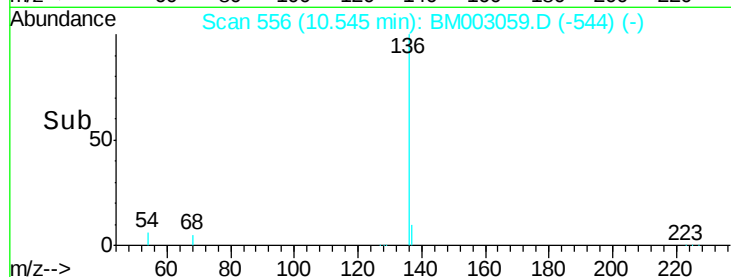
137 10.5 8.0 12.0

54 6.4 7.4 11.0#

68 5.4 5.8 8.6#

Manual Integrations  
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11/6/2015 3:45:59 PM



#8

Nitrobenzene-d5

Concen: 0.99 ng

RT: 8.91 min Scan# 419

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

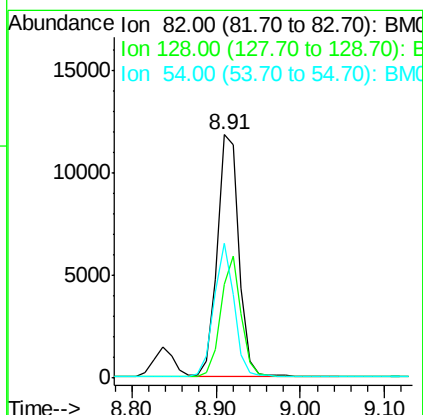
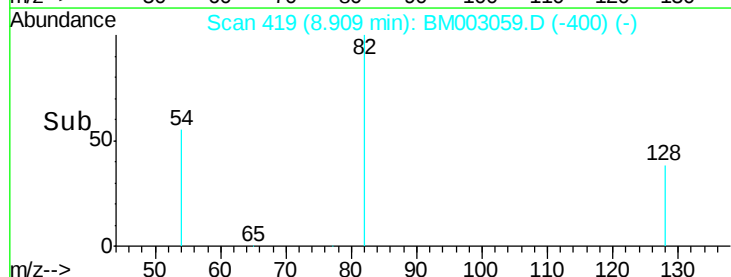
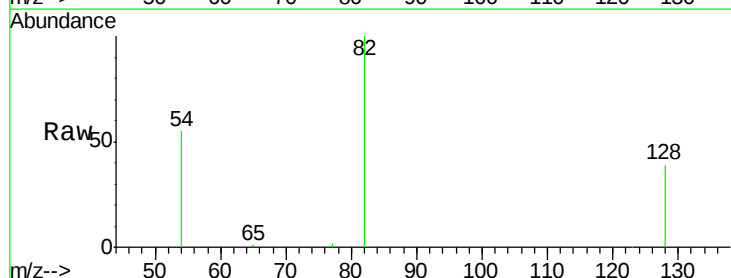
Tgt Ion: 82 Resp: 21200

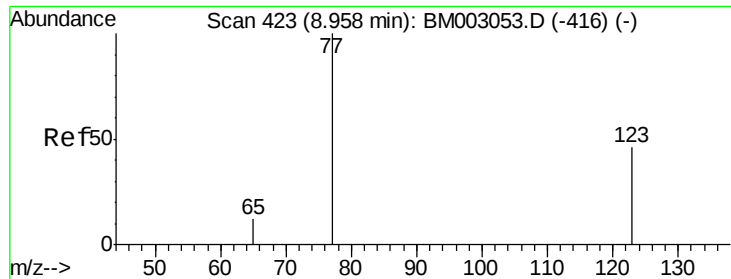
Ion Ratio Lower Upper

82 100

128 38.5 35.2 52.8

54 55.4 36.4 54.6#





#9

Nitrobenzene

Concen: 0.99 ng

RT: 8.95 min Scan# 423

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

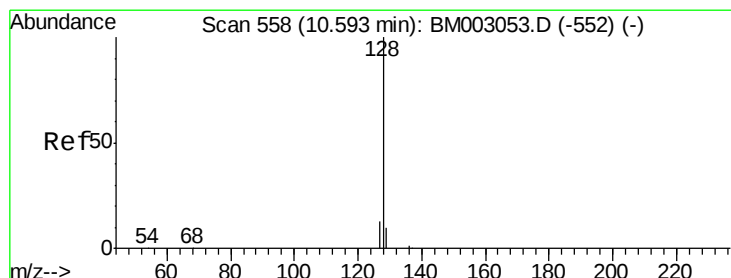
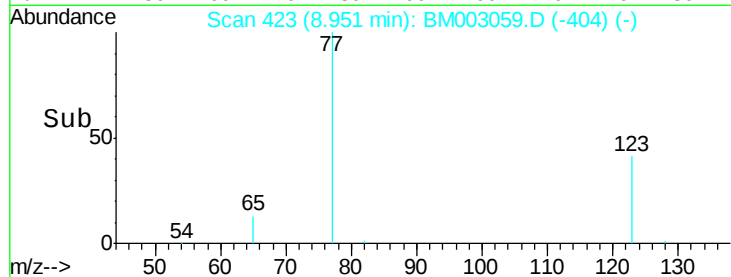
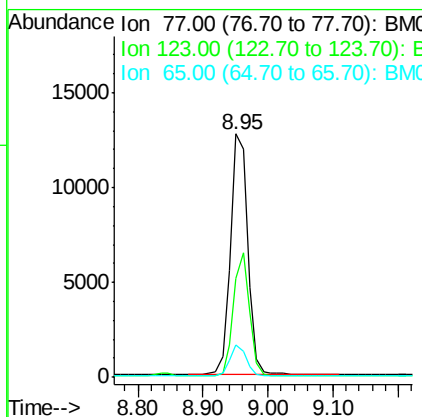
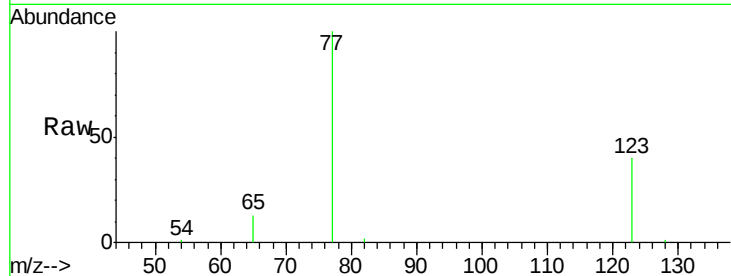
ClientSampleId :

ICVBM110415

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 77    | Resp: | 22972 |
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 123       | 48.1  | 37.7  | 56.5  |
| 65        | 12.3  | 9.8   | 14.6  |

Manual Integrations  
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#10

Naphthalene

Concen: 0.97 ng

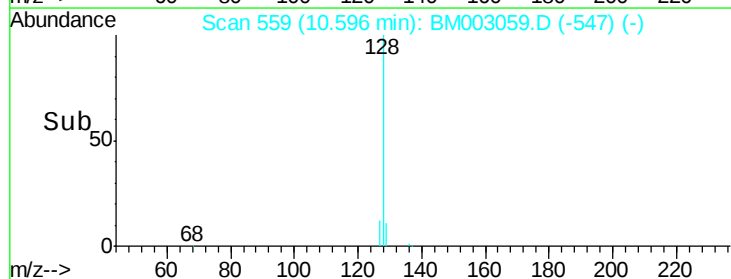
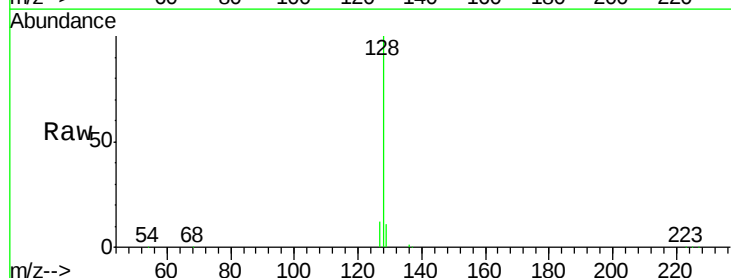
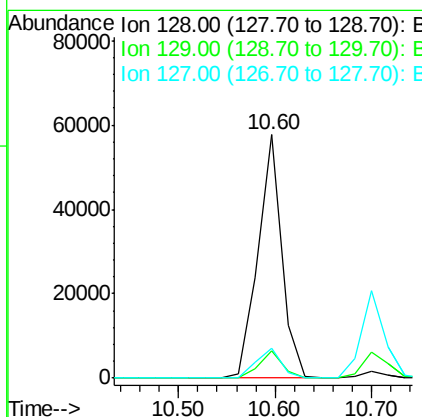
RT: 10.60 min Scan# 559

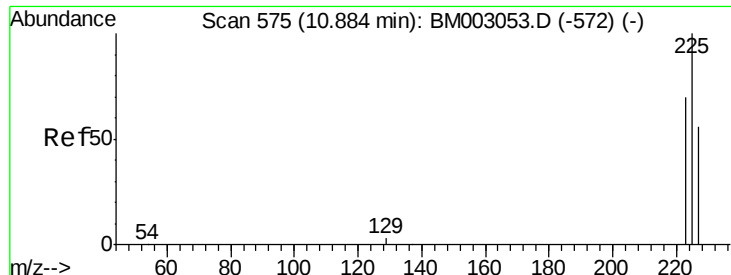
Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 97581 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.1  | 8.5   | 12.7  |
| 127       | 12.3  | 10.6  | 16.0  |





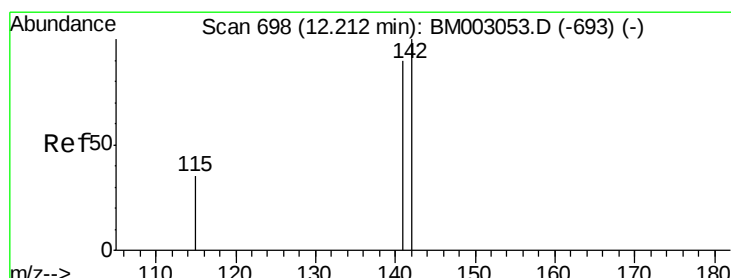
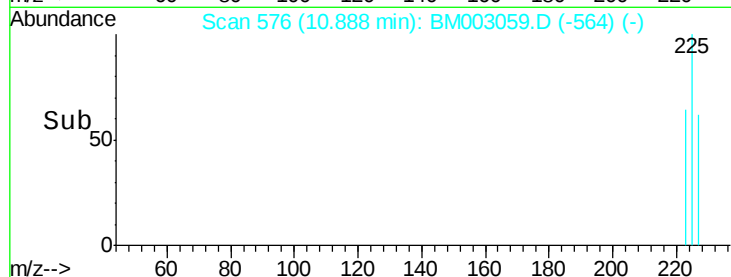
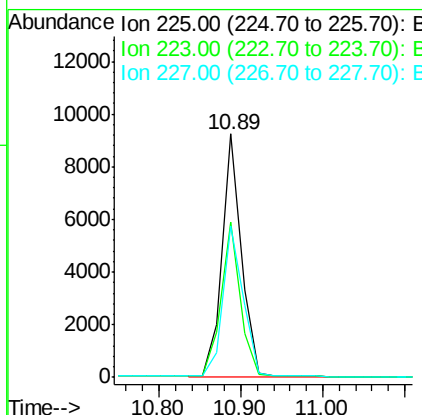
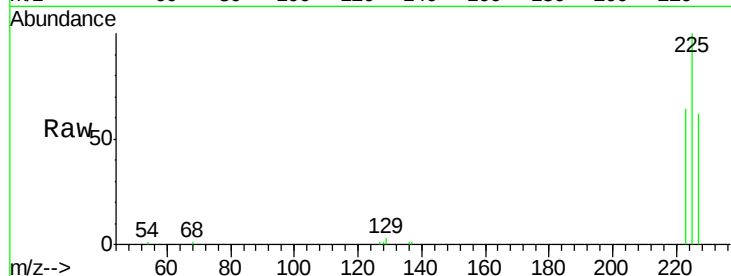
#11  
Hexachlorobutadiene  
Concen: 0.96 ng  
RT: 10.89 min Scan# 576  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

Instrument :  
BNA\_M  
ClientSampleId :  
ICVBM110415

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.5  | 53.0  | 79.4  |
| 227     | 65.6  | 52.2  | 78.4  |

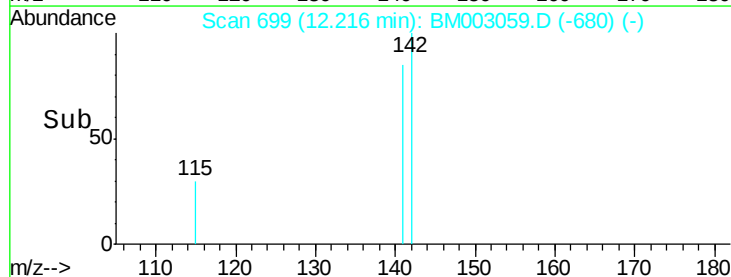
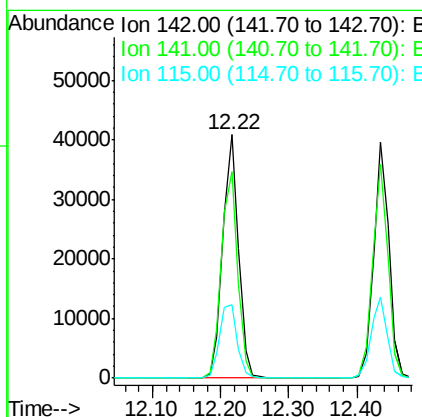
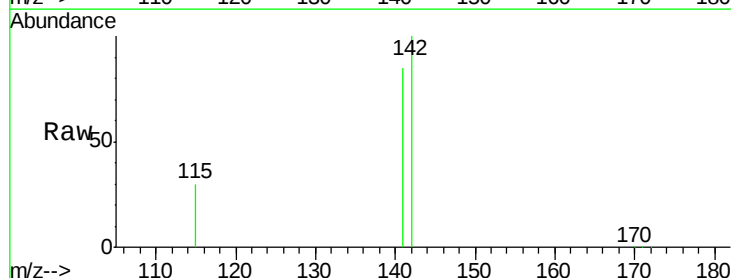
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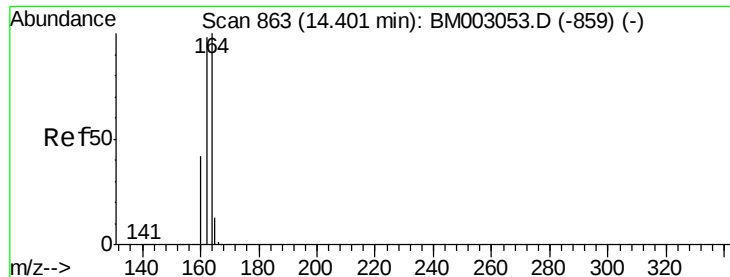
Mmdadoda  
11/6/2015 3:45:59 PM



#12  
2-Methylnaphthalene  
Concen: 0.99 ng  
RT: 12.22 min Scan# 699  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 84.8  | 72.2  | 108.2 |
| 115     | 30.4  | 28.0  | 42.0  |





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.39 min Scan# 863

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

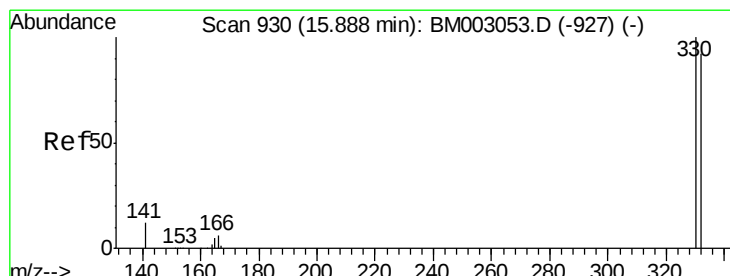
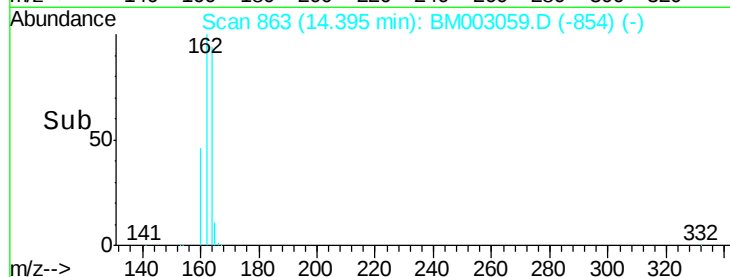
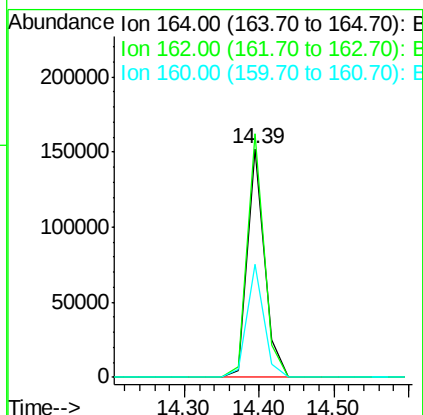
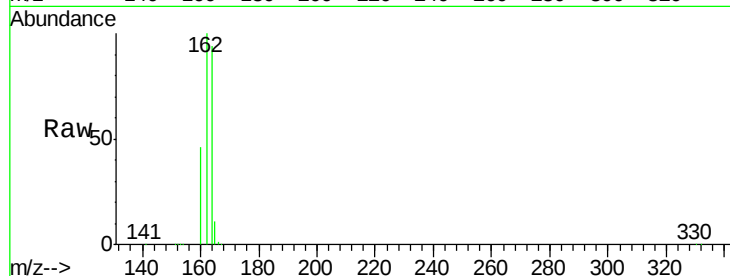
ClientSampleId :

ICVBM110415

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 242113 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 106.6 | 78.3  | 117.5  |
| 160       | 49.4  | 33.8  | 50.6   |

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#14

2,4,6-Tribromophenol

Concen: 1.00 ng

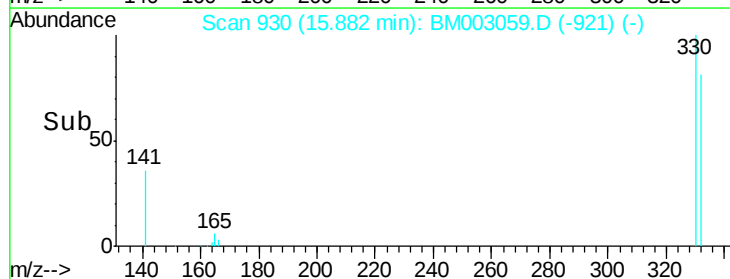
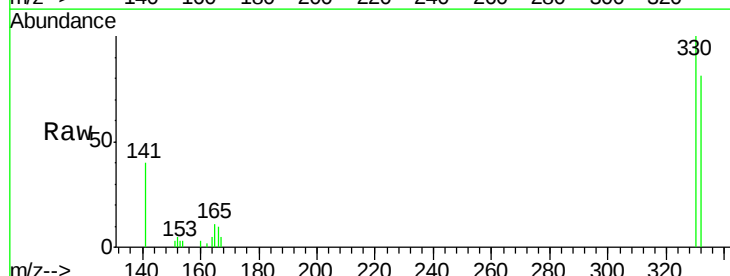
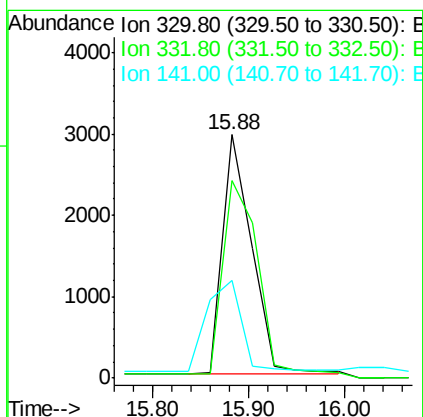
RT: 15.88 min Scan# 930

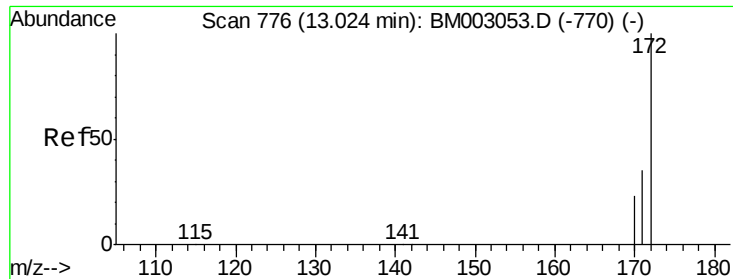
Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 6296  |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 94.8  | 76.0  | 114.0 |
| 141       | 44.4  | 0.0   | 0.0#  |





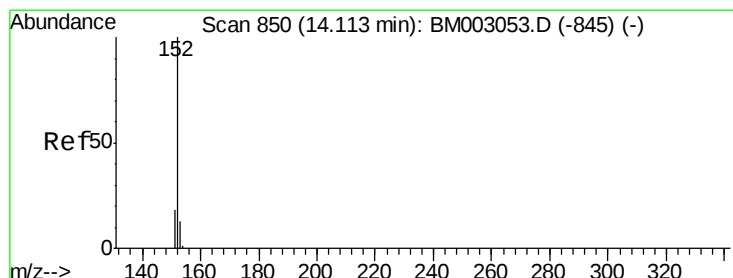
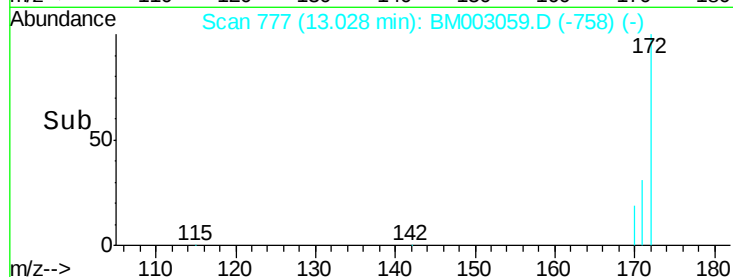
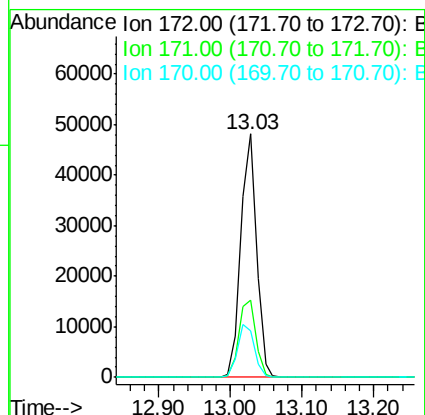
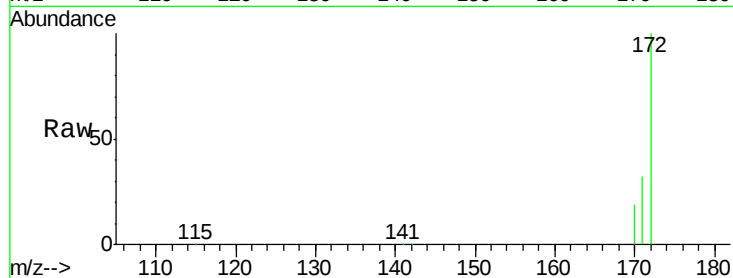
#15  
2-Fluorobiphenyl  
Concen: 0.95 ng  
RT: 13.03 min Scan# 777  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

Instrument :  
BNA\_M  
ClientSampleId :  
ICVBM110415

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 31.7  | 28.0  | 42.0  |
| 170     | 19.3  | 18.9  | 28.3  |

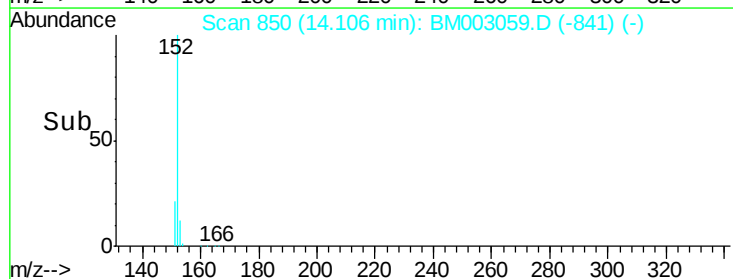
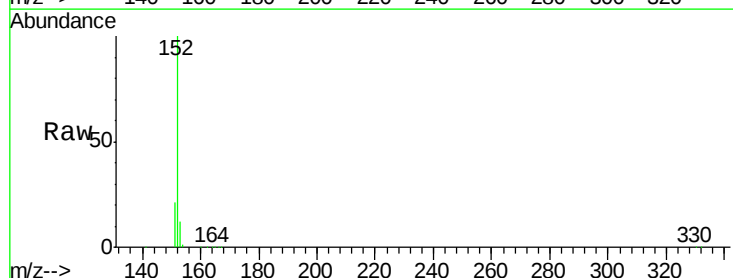
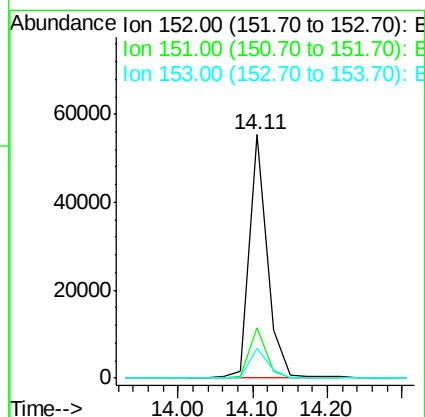
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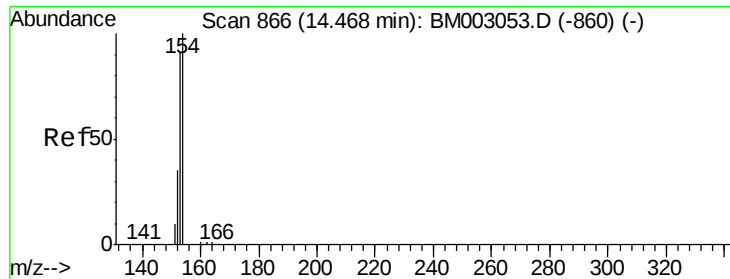
Mmdadoda  
11/6/2015 3:45:59 PM



#16  
Acenaphthylene  
Concen: 0.98 ng  
RT: 14.11 min Scan# 850  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 15.2  | 22.8  |
| 153     | 12.8  | 10.4  | 15.6  |





#17

Acenaphthene

Concen: 0.97 ng

RT: 14.46 min Scan# 866

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

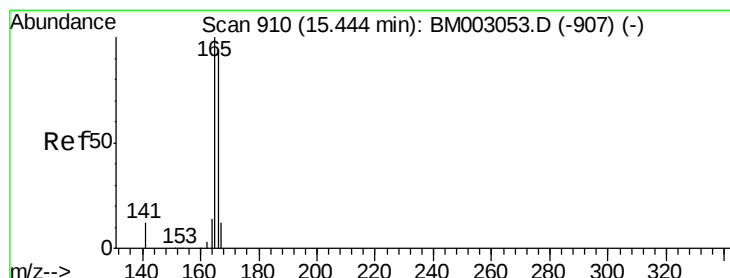
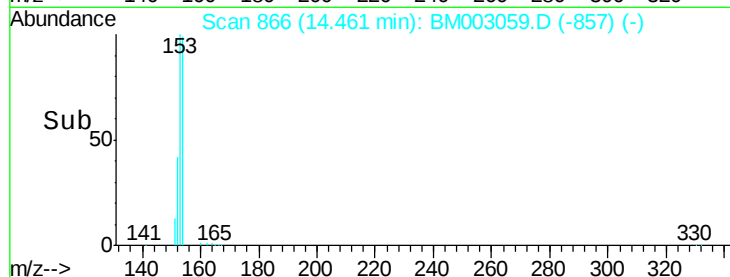
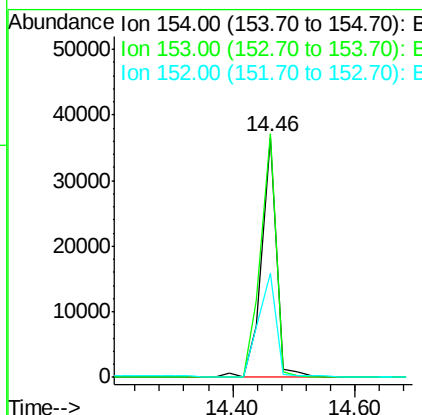
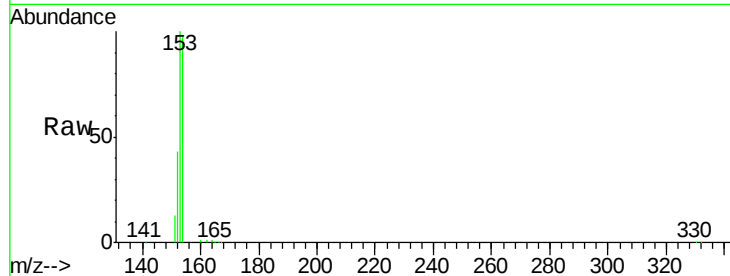
ClientSampleId :

ICVBM110415

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 62912 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 105.3 | 0.0   | 0.0#  |
| 152       | 50.1  | 0.0   | 0.0#  |

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#18

Fluorene

Concen: 0.95 ng

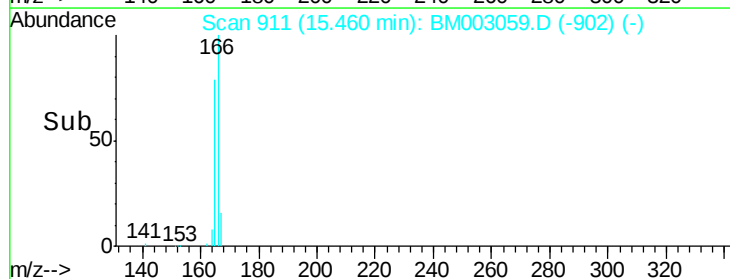
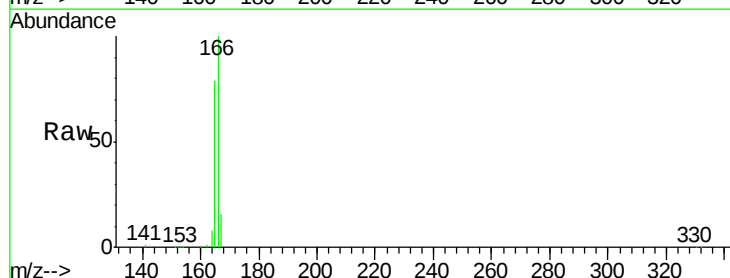
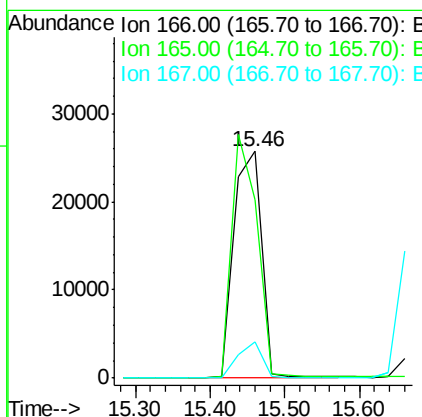
RT: 15.46 min Scan# 911

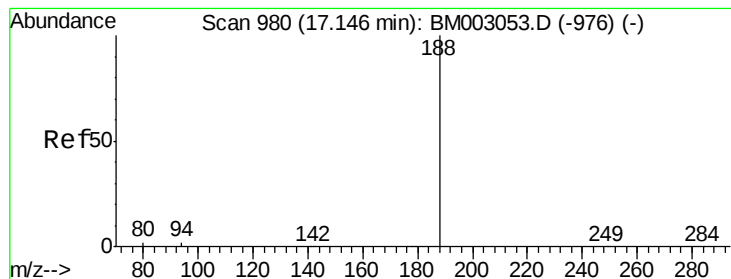
Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 65848  |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 0.0   | 80.8  | 121.2# |
| 167       | 13.5  | 10.5  | 15.7   |





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.14 min Scan# 980

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

ClientSampleId :

ICVBM110415

Tot Ion:188 Resp: 529148

Ion Ratio Lower Upper

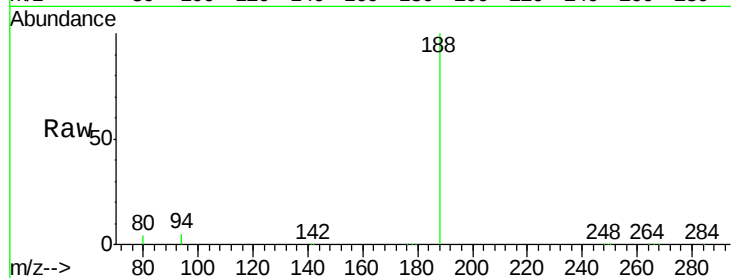
188 100

94 4.9 1.8 2.6#

80 4.1 1.4 2.0#

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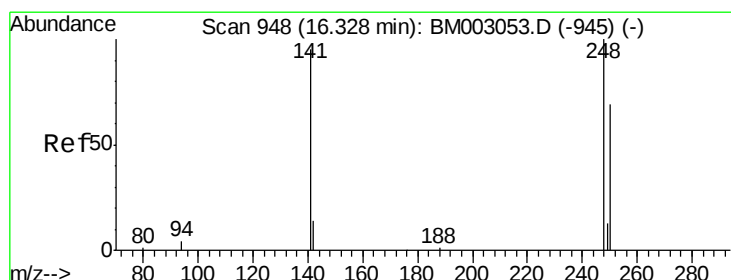
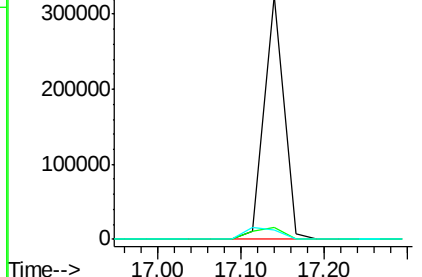
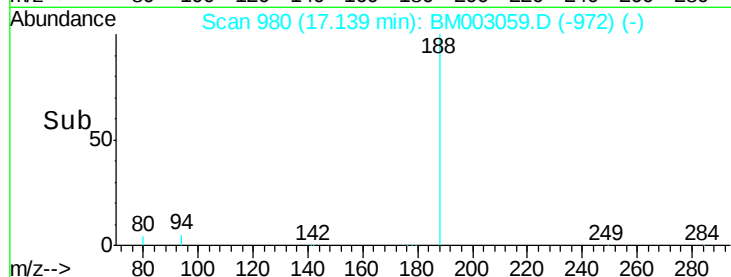
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



#20

4-Bromophenyl-phenylether

Concen: 0.93 ng

RT: 16.32 min Scan# 948

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

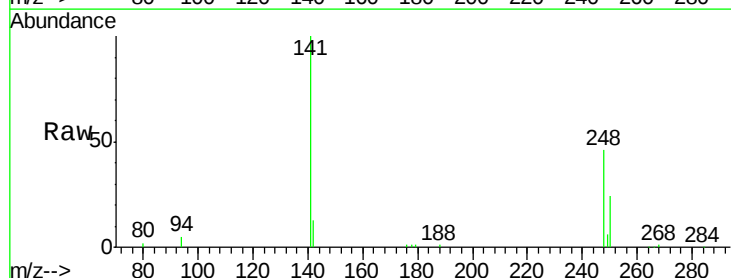
Tgt Ion:248 Resp: 15379

Ion Ratio Lower Upper

248 100

250 0.0 65.4 98.0#

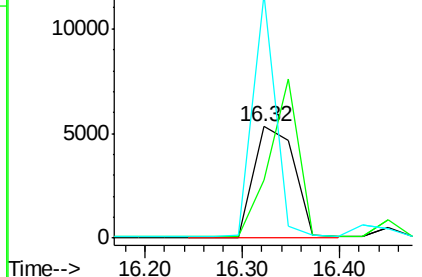
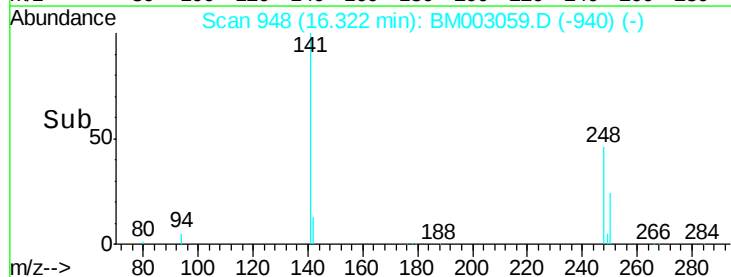
141 121.5 72.8 109.2#

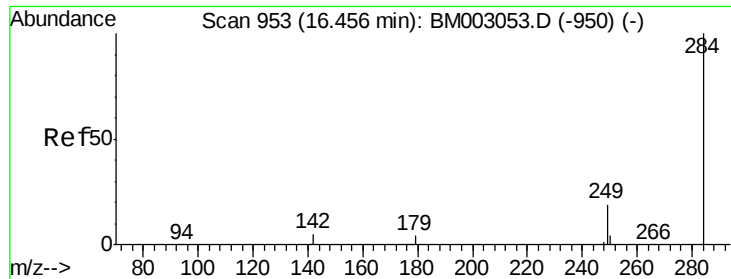


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





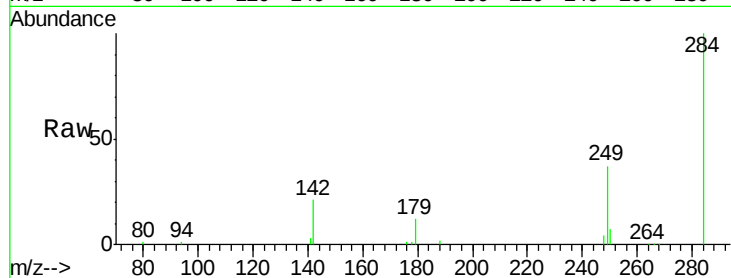
#21  
Hexachlorobenzene  
Concen: 0.96 ng  
RT: 16.45 min Scan# 953  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

Instrument :  
BNA\_M  
ClientSampleId :  
ICVBM110415

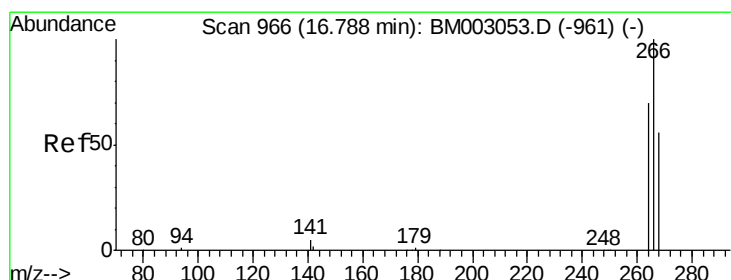
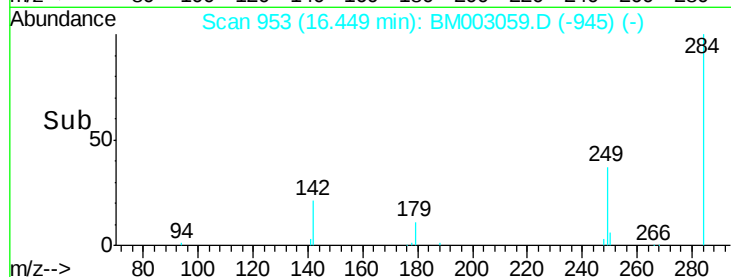
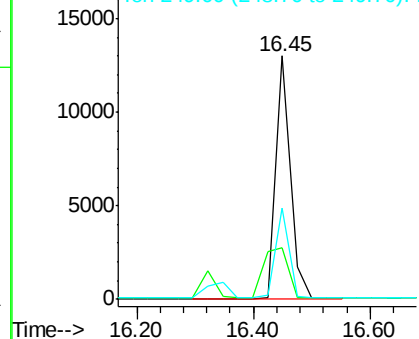
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 35.2  | 0.0   | 0.0#  |
| 249     | 34.5  | 19.4  | 29.2# |

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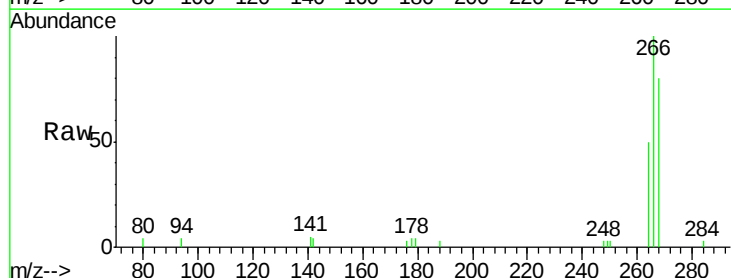


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

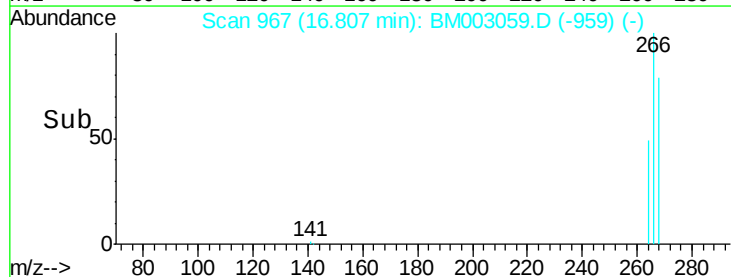
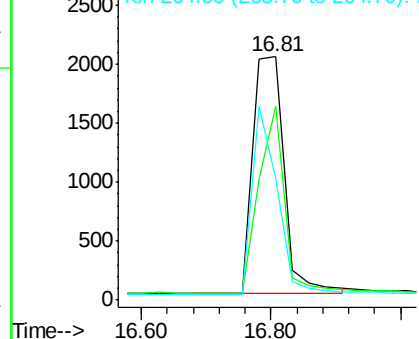


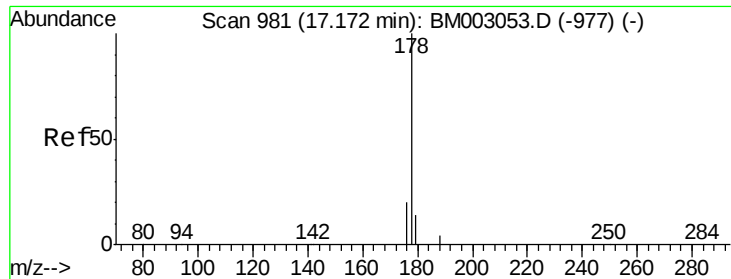
#22  
Pentachlorophenol  
Concen: 0.97 ng  
RT: 16.81 min Scan# 967  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 79.7  | 45.8  | 68.8# |
| 264     | 50.3  | 56.7  | 85.1# |



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E





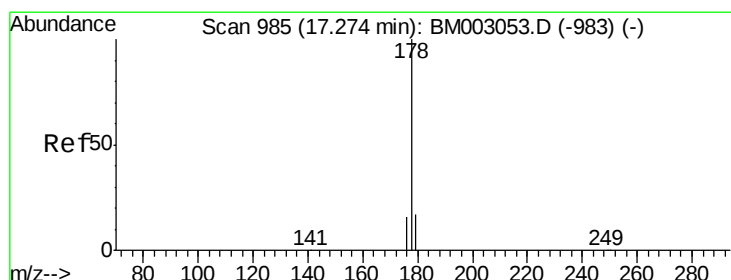
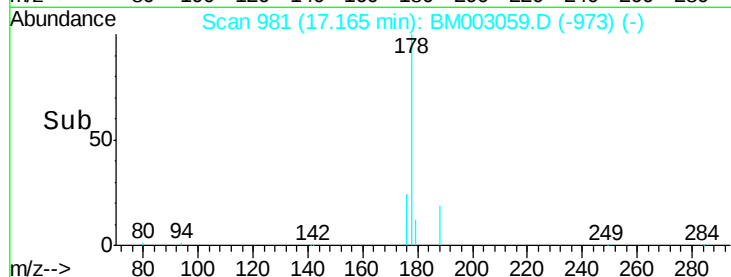
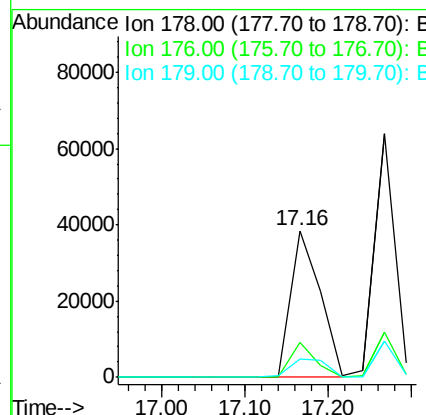
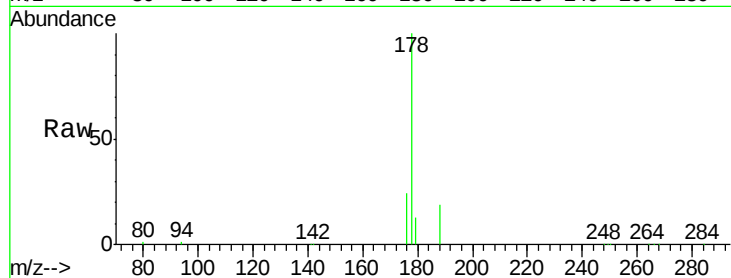
#23  
Phenanthrene  
Concen: 0.87 ng  
RT: 17.16 min Scan# 981  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

Instrument :  
BNA\_M  
ClientSampleId :  
ICVBM110415

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.2  | 15.9  | 23.9  |
| 179     | 15.3  | 11.7  | 17.5  |

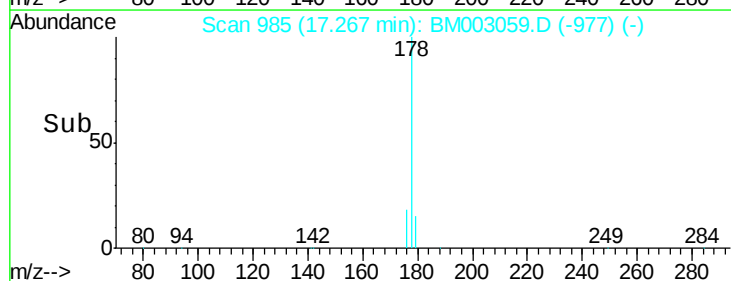
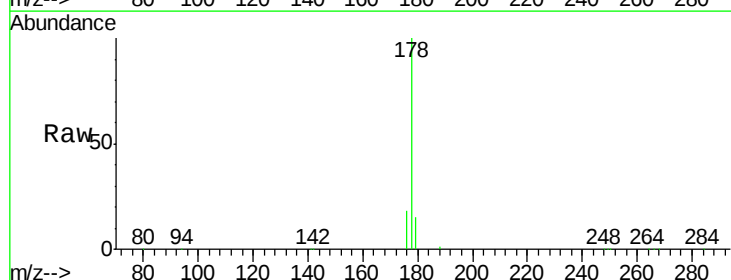
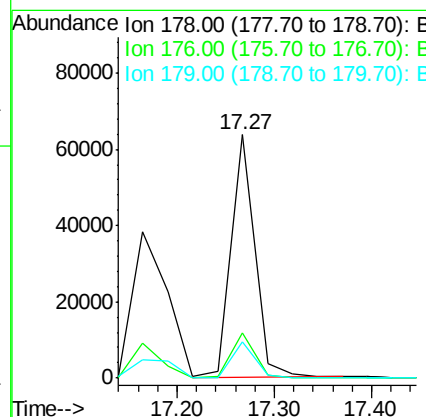
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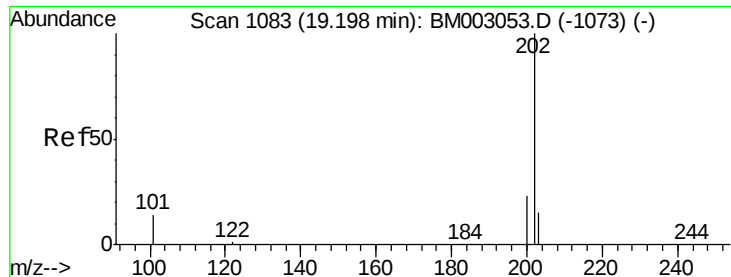
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11/6/2015 3:45:59 PM



#24  
Anthracene  
Concen: 0.95 ng  
RT: 17.27 min Scan# 985  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 14.1  | 21.1  |
| 179     | 15.0  | 12.8  | 19.2  |





#25

Fluoranthene

Concen: 0.92 ng

RT: 19.21 min Scan# 1084

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

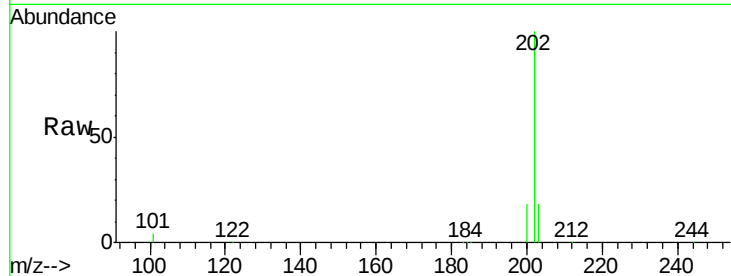
ClientSampleId :

ICVBM110415

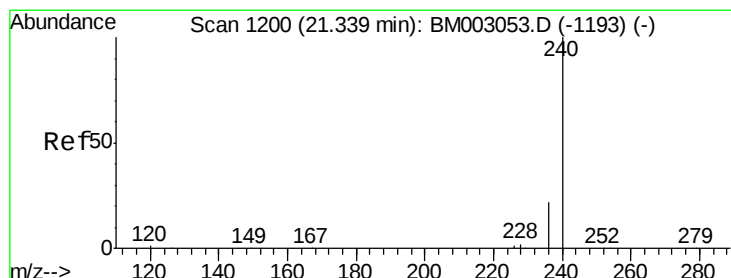
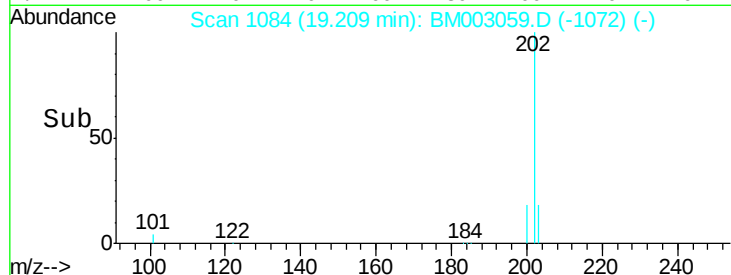
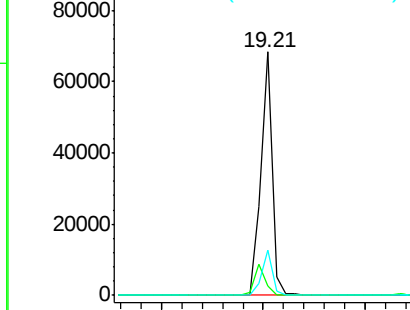
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 103003 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.2  | 9.9   | 14.9   |
| 203       | 17.4  | 13.9  | 20.9   |

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11/6/2015 3:45:59 PM



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#26

Chrysene-d12

Concen: 5.00 ng

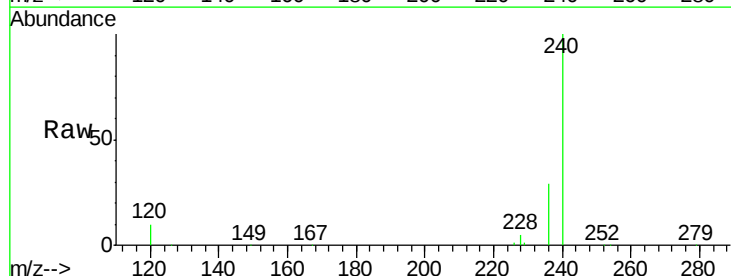
RT: 21.33 min Scan# 1200

Delta R.T. 0.00 min

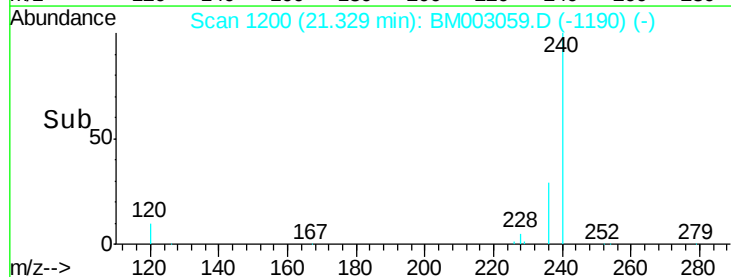
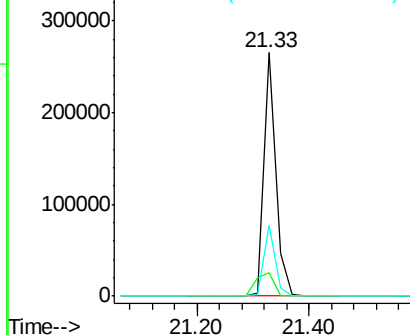
Lab File: BM003059.D

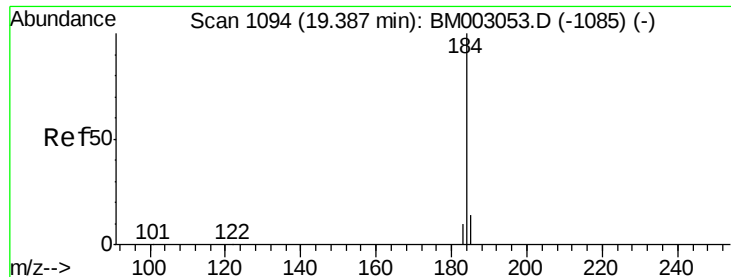
Acq: 05 Nov 2015 11:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 390858 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 9.7   | 1.0   | 1.4#   |
| 236       | 29.3  | 17.9  | 26.9#  |



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 0.99 ng

RT: 19.38 min Scan# 1094

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

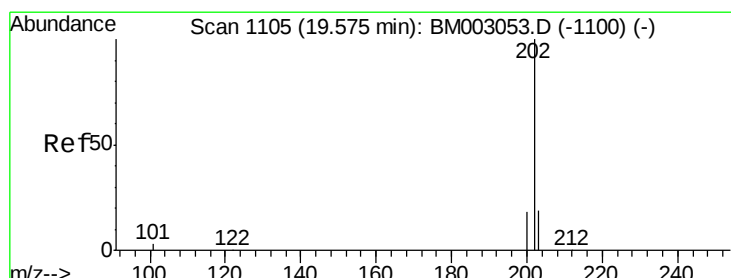
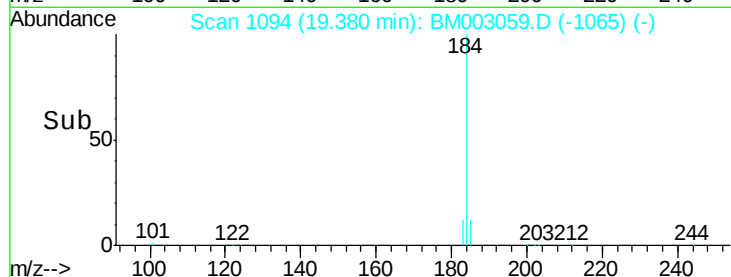
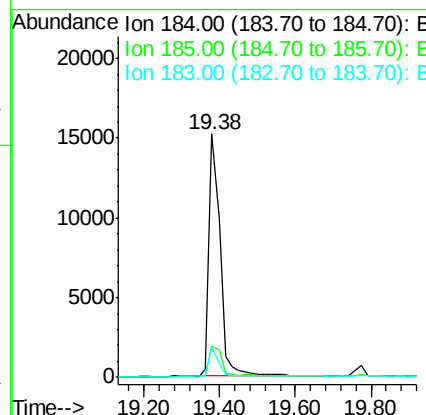
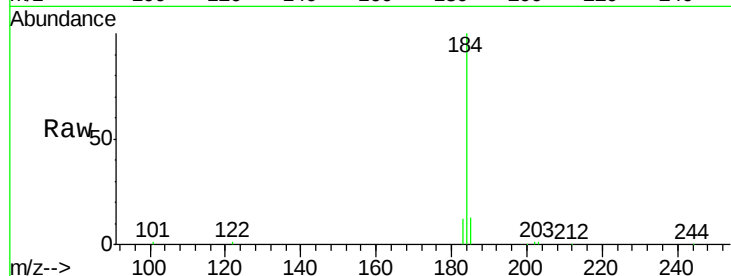
ClientSampleId :

ICVBM110415

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 184   | Resp: | 29775 |
| Ion Ratio | Lower | Upper |       |
| 184       | 100   |       |       |
| 185       | 12.6  | 11.6  | 17.4  |
| 183       | 12.4  | 8.6   | 13.0  |

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#28

Pyrene

Concen: 0.98 ng

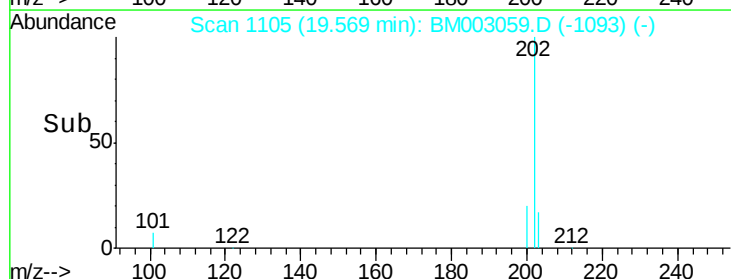
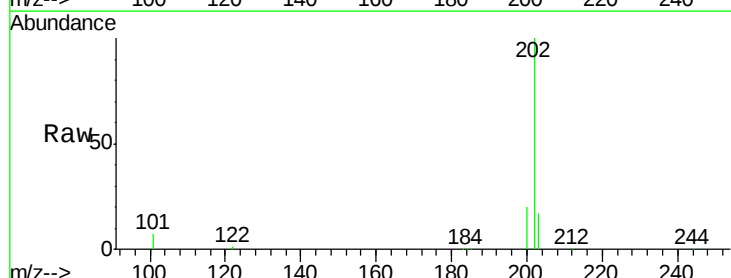
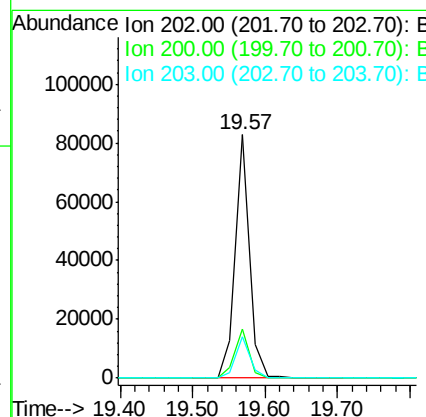
RT: 19.57 min Scan# 1105

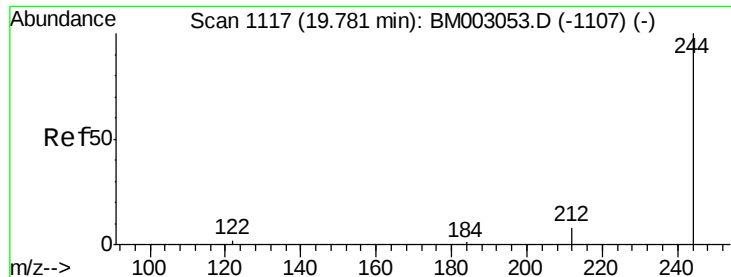
Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 111220 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.6  | 16.7  | 25.1   |
| 203       | 17.3  | 13.8  | 20.6   |





#29

Terphenyl-d14

Concen: 0.96 ng

RT: 19.77 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

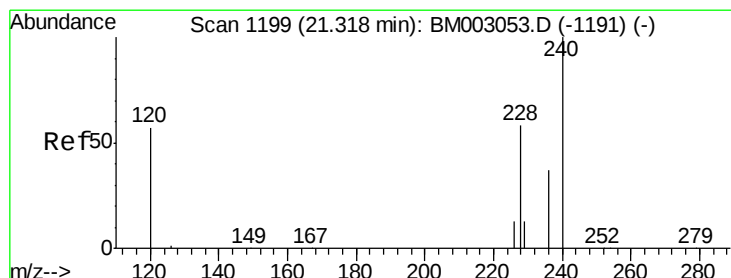
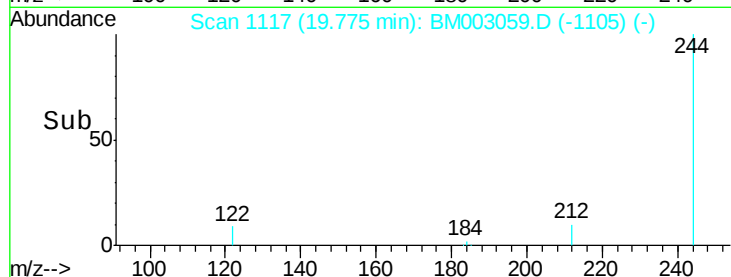
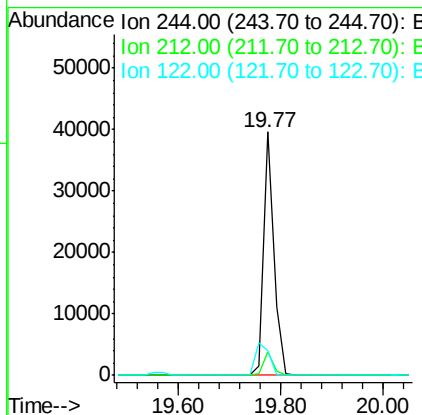
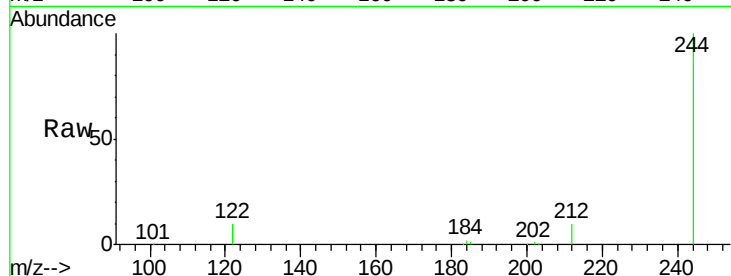
ClientSampleId :

ICVBM110415

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 54195 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 9.7   | 6.5   | 9.7   |
| 122       | 9.9   | 2.0   | 3.0#  |

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#30

Benzo(a)anthracene

Concen: 0.97 ng m

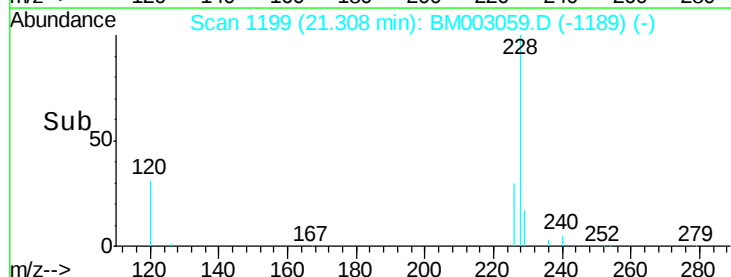
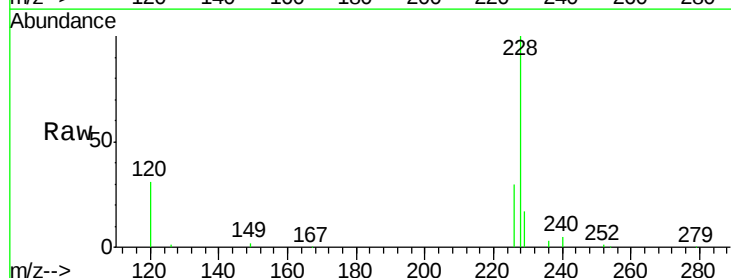
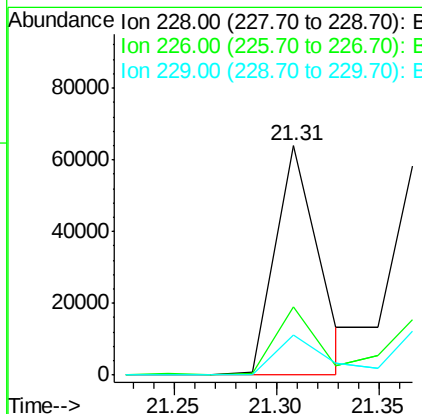
RT: 21.31 min Scan# 1199

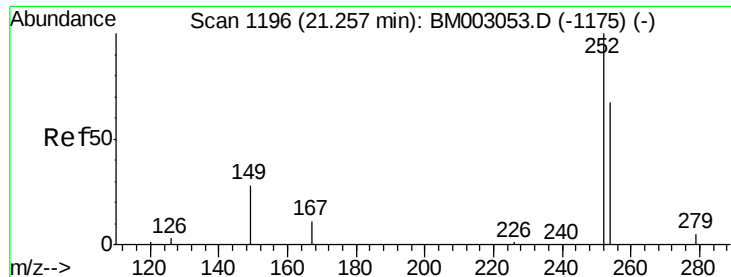
Delta R.T. 0.00 min

Lab File: BM003059.D

Acq: 05 Nov 2015 11:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 95885 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.6  | 17.8  | 26.6# |
| 229       | 17.4  | 18.0  | 27.0# |





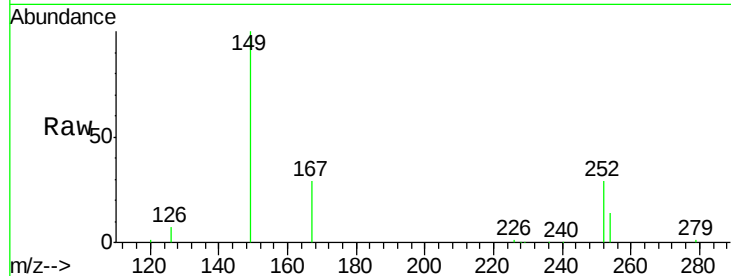
#31  
 3,3'-Dichlorobenzidine  
 Concen: 0.98 ng  
 RT: 21.25 min Scan# 1196  
 Delta R.T. 0.00 min  
 Lab File: BM003059.D  
 Acq: 05 Nov 2015 11:21

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ICVBM110415

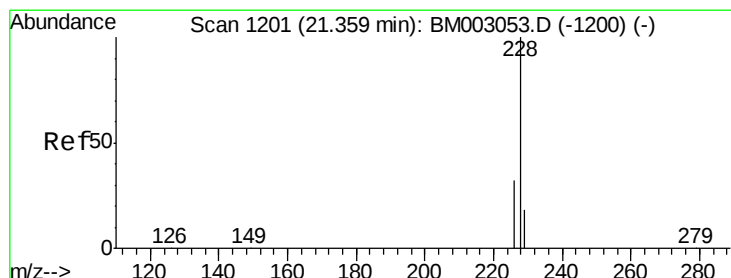
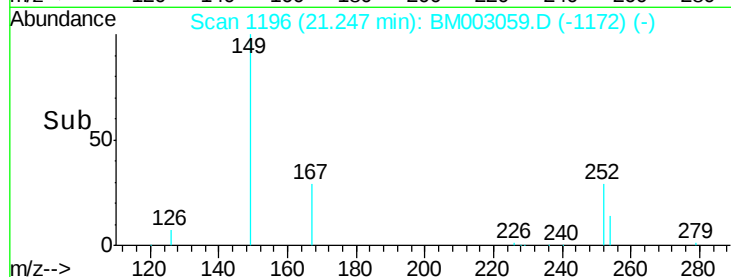
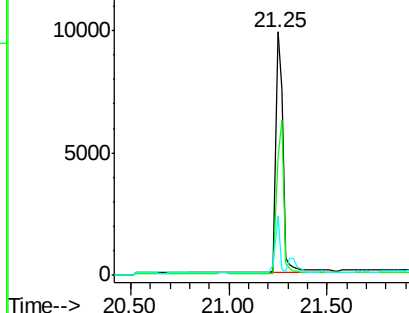
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 48.8  | 53.7  | 80.5# |
| 126     | 24.2  | 2.8   | 4.2#  |

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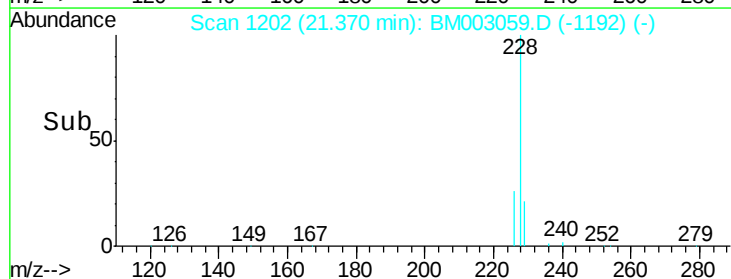
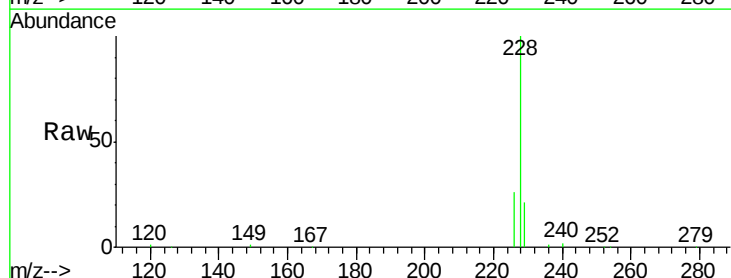
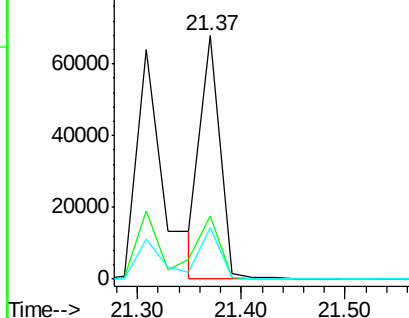
Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

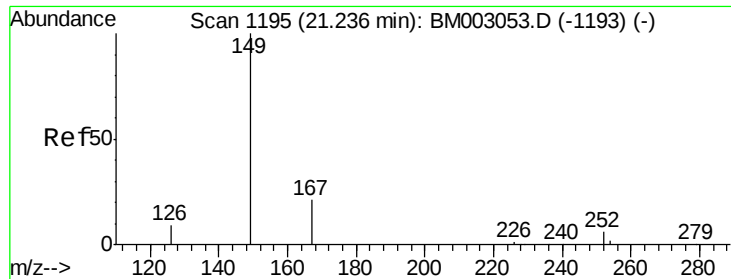


#32  
 Chrysene  
 Concen: 0.80 ng  
 RT: 21.37 min Scan# 1202  
 Delta R.T. 0.00 min  
 Lab File: BM003059.D  
 Acq: 05 Nov 2015 11:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 25.8  | 25.5  | 38.3  |
| 229     | 21.4  | 14.3  | 21.5  |

Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E





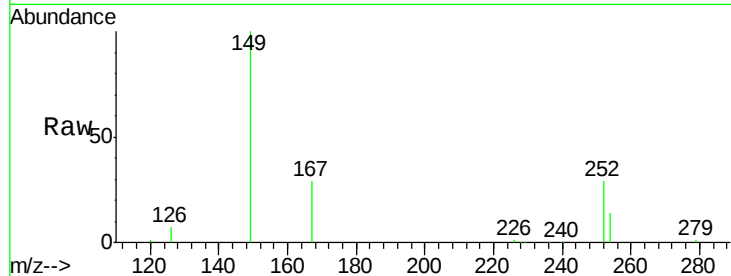
#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 1.08 ng  
 RT: 21.25 min Scan# 1196  
 Delta R.T. 0.00 min  
 Lab File: BM003059.D  
 Acq: 05 Nov 2015 11:21

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ICVBM110415

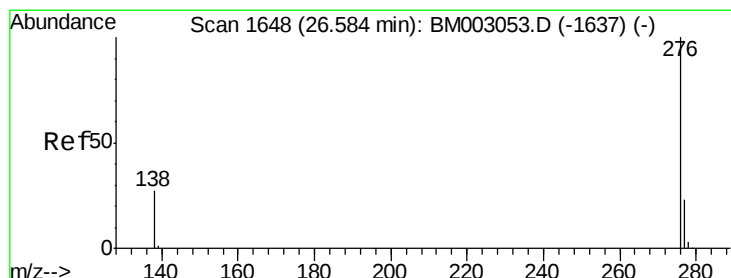
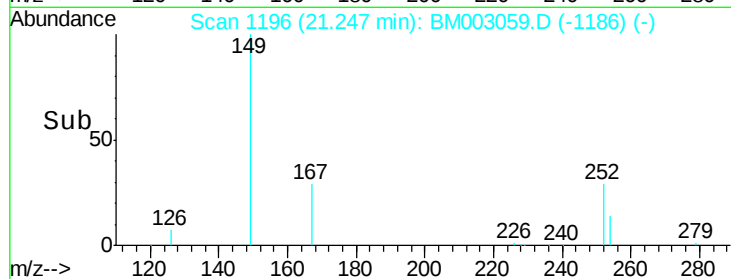
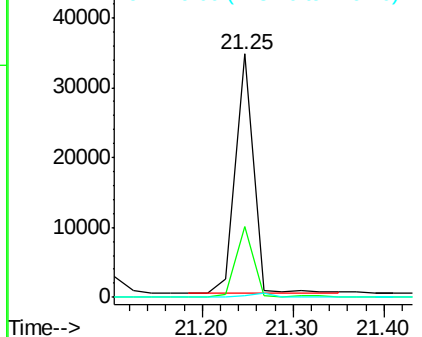
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.1  | 19.6  | 29.4  |
| 279     | 0.0   | 0.0   | 0.0   |

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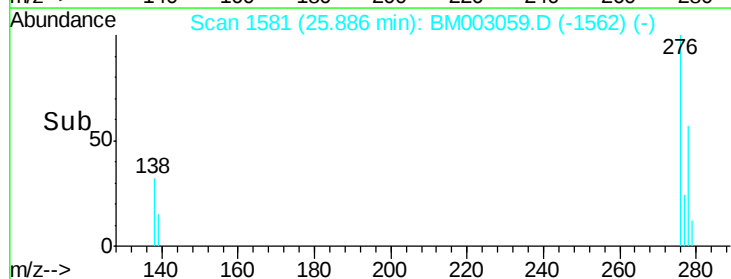
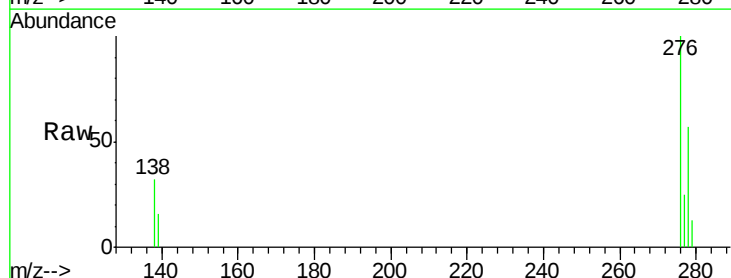
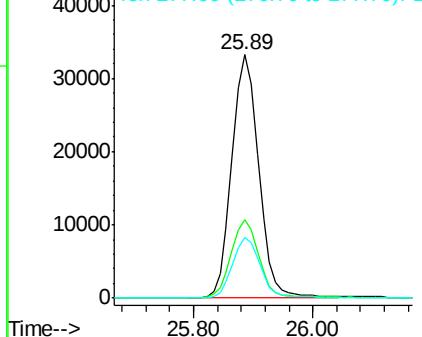
Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

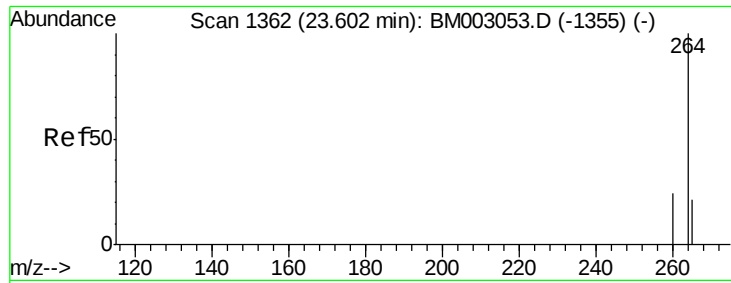


#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.07 ng  
 RT: 25.89 min Scan# 1581  
 Delta R.T. 0.00 min  
 Lab File: BM003059.D  
 Acq: 05 Nov 2015 11:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 32.7  | 22.6  | 33.8  |
| 277     | 24.9  | 18.7  | 28.1  |

Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E





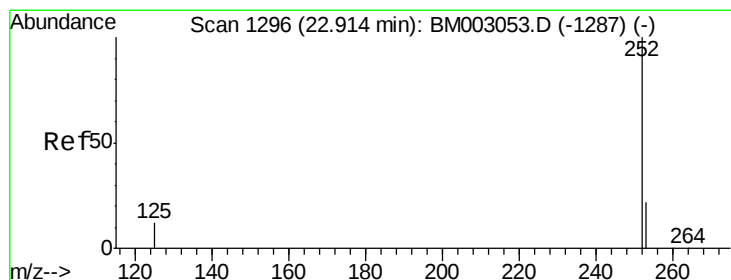
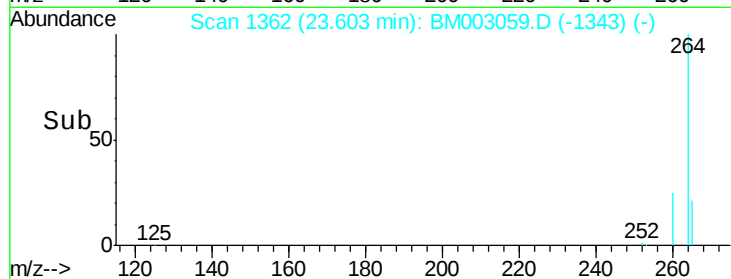
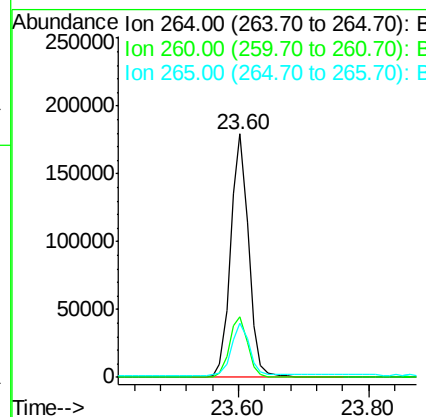
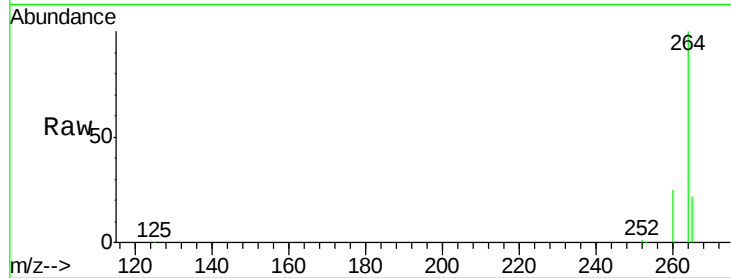
#35  
 Pervlene-d12  
 Concen: 5.00 ng  
 RT: 23.60 min Scan# 1362  
 Delta R.T. 0.00 min  
 Lab File: BM003059.D  
 Acq: 05 Nov 2015 11:21

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ICVBM110415

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 341100 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.7  | 19.6  | 29.4   |
| 265       | 22.3  | 18.4  | 27.6   |

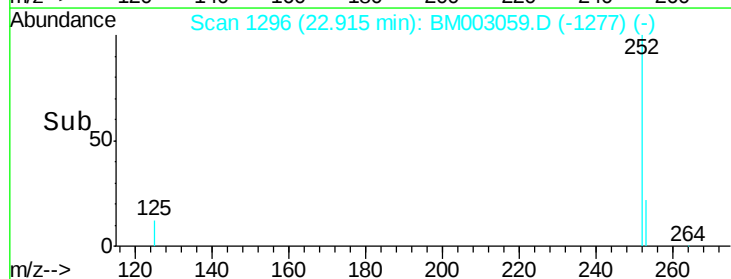
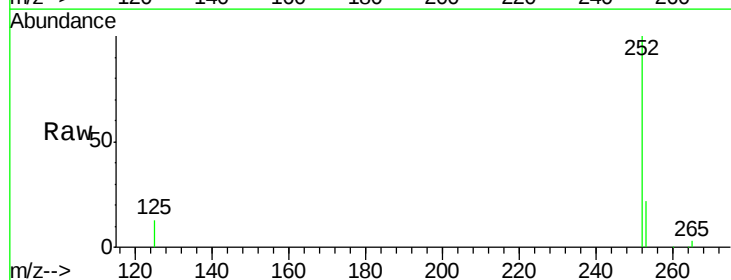
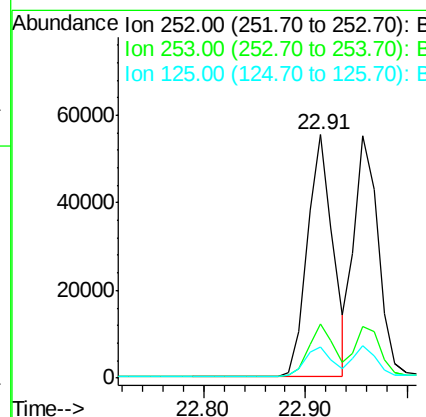
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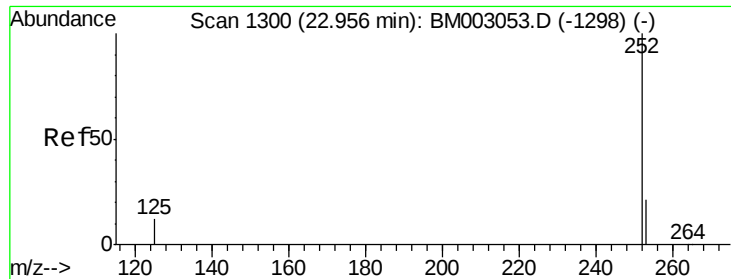
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#36  
 Benzo(b)fluoranthene  
 Concen: 0.92 ng  
 RT: 22.91 min Scan# 1296  
 Delta R.T. 0.00 min  
 Lab File: BM003059.D  
 Acq: 05 Nov 2015 11:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 95724 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.3  | 18.2  | 27.4  |
| 125       | 12.8  | 10.3  | 15.5  |





#37

Benzo(k)fluoranthene

Concen: 0.98 ng

RT: 22.96 min Scan# 1300

Delta R.T. 0.00 min

Lab File: BM003059.D

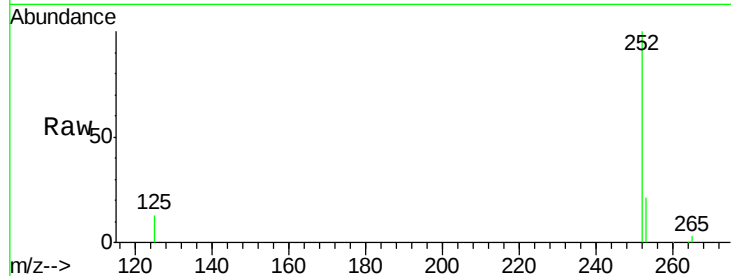
Acq: 05 Nov 2015 11:21

Instrument :

BNA\_M

ClientSampleId :

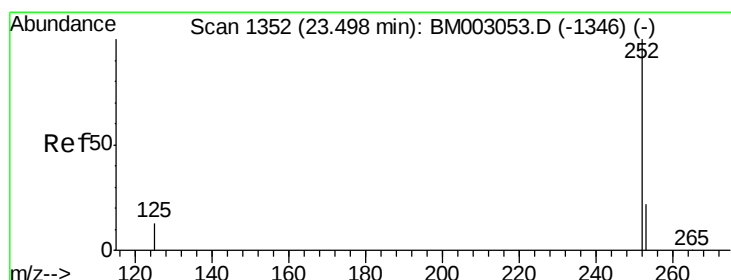
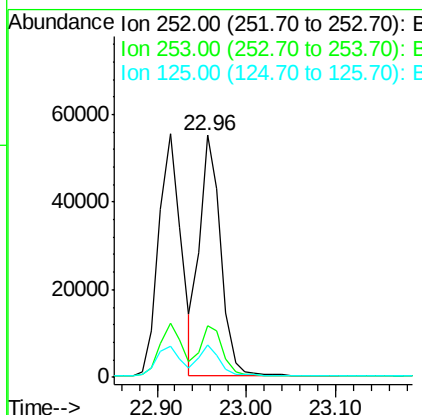
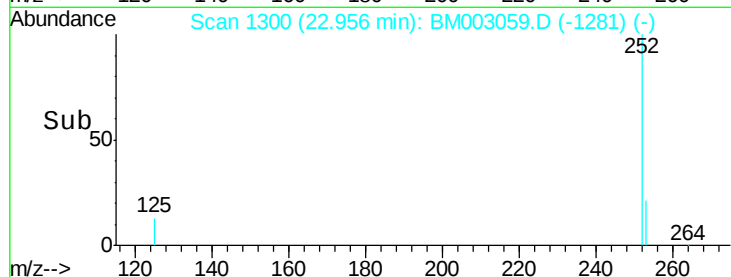
ICVBM110415



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 91303 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.2  | 17.5  | 26.3  |
| 125       | 13.3  | 10.7  | 16.1  |

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#38

Benzo(a)pyrene

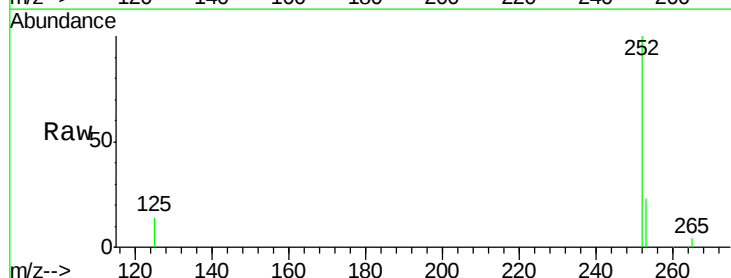
Concen: 0.92 ng

RT: 23.50 min Scan# 1352

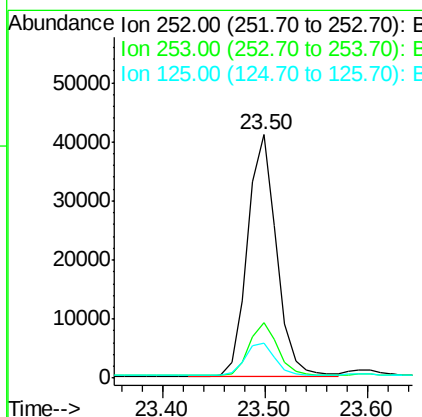
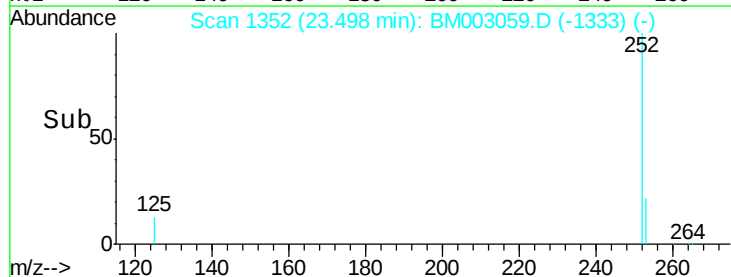
Delta R.T. 0.00 min

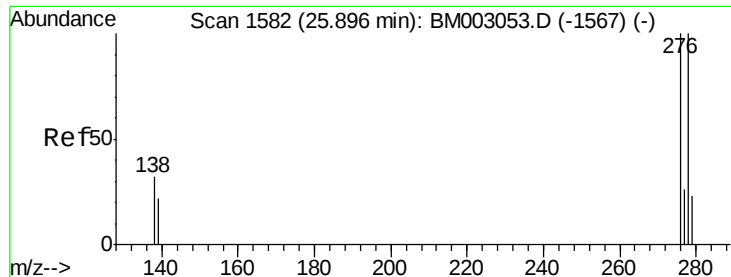
Lab File: BM003059.D

Acq: 05 Nov 2015 11:21



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 80808 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.6  | 18.7  | 28.1  |
| 125       | 14.4  | 11.6  | 17.4  |





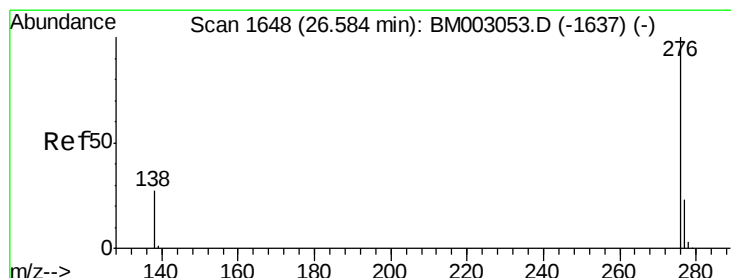
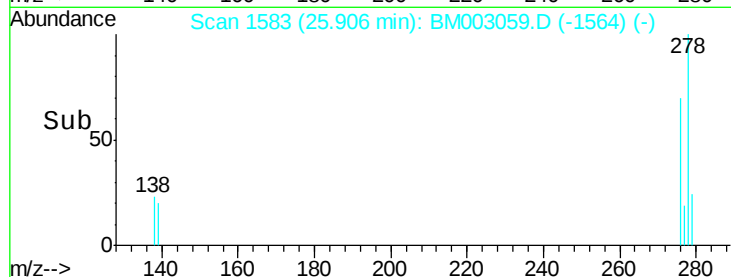
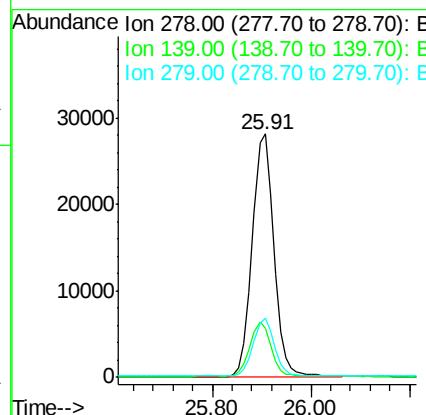
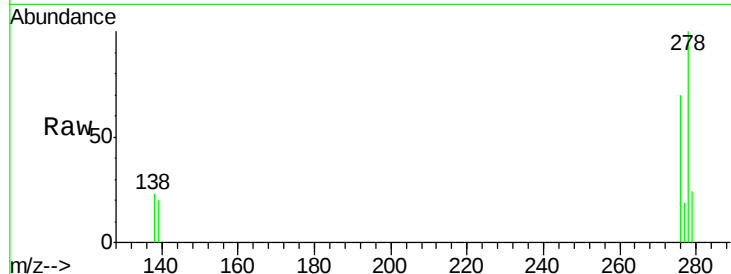
#39  
Dibenzo(a,h)anthracene  
Concen: 0.98 ng  
RT: 25.91 min Scan# 1583  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

Instrument :  
BNA\_M  
ClientSampleId :  
ICVBM110415

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.9  | 18.2  | 27.4  |
| 279     | 24.4  | 18.8  | 28.2  |

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#40  
Benzo(g,h,i)perylene  
Concen: 0.94 ng  
RT: 26.58 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: BM003059.D  
Acq: 05 Nov 2015 11:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.3  | 19.0  | 28.6  |
| 138     | 28.7  | 22.3  | 33.5  |

