

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122415\  
 Data File : BM003759.D  
 Acq On : 24 Dec 2015 02:13  
 Operator : UM/SJ  
 Sample : PB87313BSD  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87313BSD

Manual Integrations  
 APPROVED

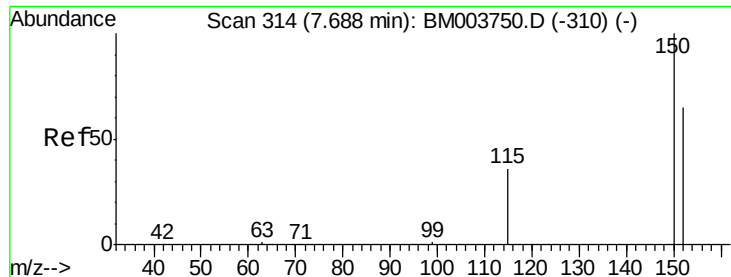
Sohil  
 12/24/2015 5:30:16 PM

Quant Time: Dec 24 10:52:40 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM122415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 24 10:08:49 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.69  | 152  | 51498    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.48 | 136  | 220373   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.32 | 164  | 120600   | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.08 | 188  | 233535   | 5.00 | ng    | 0.02     |
| 26) Chrysene-d12               | 21.28 | 240  | 215809   | 5.00 | ng    | -0.01    |
| 35) Perylene-d12               | 23.52 | 264  | 140071   | 5.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |      |       |          |
| 4) 2-Fluorophenol              | 5.27  | 112  | 77379    | 6.36 | ng    | 0.00     |
| 5) Phenol-d6                   | 6.87  | 99   | 100904   | 6.77 | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.84  | 82   | 44729    | 3.83 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol       | 15.83 | 330  | 28747    | 7.58 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 12.95 | 172  | 148663   | 4.03 | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.73 | 244  | 135088   | 3.95 | ng    | 0.00     |
| Target Compounds               |       |      |          |      |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.18  | 88   | 15975    | 3.38 | ng    | 97       |
| 3) n-Nitrosodimethylamine      | 3.49  | 42   | 18583    | 3.39 | ng    | 97       |
| 6) bis(2-Chloroethyl)ether     | 7.11  | 93   | 45220    | 3.41 | ng    | 99       |
| 9) Nitrobenzene                | 8.88  | 77   | 46319    | 3.49 | ng    | 98       |
| 10) Naphthalene                | 10.51 | 128  | 170008   | 3.38 | ng    | 100      |
| 11) Hexachlorobutadiene        | 10.80 | 225  | 25581    | 3.29 | ng    | 99       |
| 12) 2-Methylnaphthalene        | 12.14 | 142  | 122492   | 3.65 | ng    | 98       |
| 16) Acenaphthylene             | 14.04 | 152  | 197504   | 3.60 | ng    | 100      |
| 17) Acenaphthene               | 14.39 | 154  | 134932   | 3.95 | ng    | 99       |
| 18) Fluorene                   | 15.39 | 166  | 161185   | 4.00 | ng    | 98       |
| 20) 4-Bromophenyl-phenylether  | 16.27 | 248  | 47158    | 4.53 | ng    | 88       |
| 21) Hexachlorobenzene          | 16.39 | 284  | 49383    | 4.94 | ng    | # 96     |
| 22) Pentachlorophenol          | 16.75 | 266  | 27192    | 5.58 | ng    | 97       |
| 23) Phenanthrene               | 17.11 | 178  | 282277   | 4.50 | ng    | 98       |
| 24) Anthracene                 | 17.21 | 178  | 233675   | 4.05 | ng    | 99       |
| 25) Fluoranthene               | 19.14 | 202  | 274666   | 3.69 | ng    | 99       |
| 27) Benzidine                  | 19.33 | 184  | 198793   | 6.92 | ng    | 96       |
| 28) Pyrene                     | 19.50 | 202  | 285996   | 3.99 | ng    | 99       |
| 30) Benzo(a)anthracene         | 21.26 | 228  | 238641m  | 3.69 | ng    |          |
| 31) 3,3'-Dichlorobenzidine     | 21.19 | 252  | 59358    | 2.81 | ng    | # 72     |
| 32) Chrysene                   | 21.32 | 228  | 217679m  | 3.67 | ng    |          |
| 33) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 105367   | 2.34 | ng    | # 92     |
| 34) Indeno(1,2,3-cd)pyrene     | 25.77 | 276  | 156399   | 3.43 | ng    | 100      |
| 36) Benzo(b)fluoranthene       | 22.85 | 252  | 189091   | 4.13 | ng    | 98       |
| 37) Benzo(k)fluoranthene       | 22.89 | 252  | 164895   | 3.91 | ng    | 98       |
| 38) Benzo(a)pyrene             | 23.42 | 252  | 158134   | 4.03 | ng    | 98       |
| 39) Dibenzo(a,h)anthracene     | 25.79 | 278  | 127250   | 4.14 | ng    | 98       |
| 40) Benzo(g,h,i)perylene       | 26.46 | 276  | 131815   | 4.10 | ng    | 98       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.69 min Scan# 314

Delta R.T. 0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

Instrument :

BNA\_M

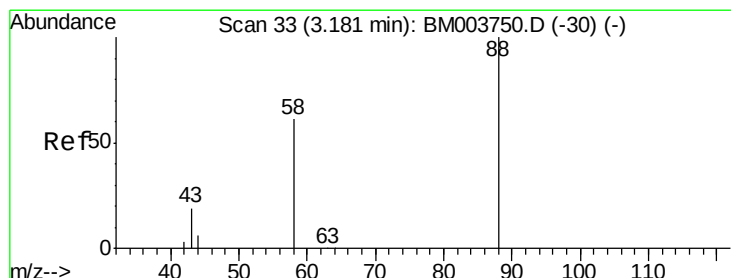
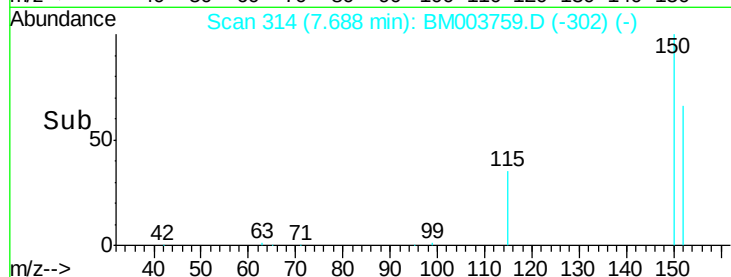
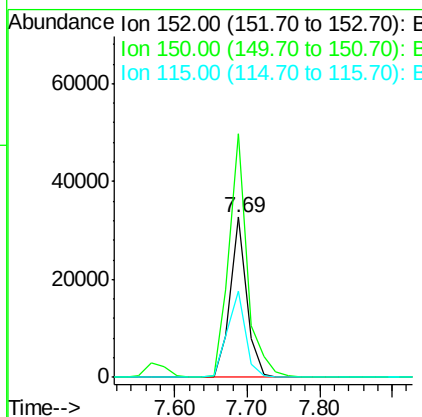
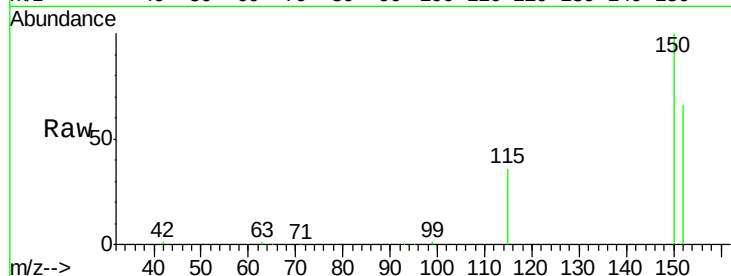
ClientSampleId :

PB87313BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 51498 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 152.3 | 122.9 | 184.3 |
| 115       | 54.2  | 44.4  | 66.6  |

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#2

1,4-Dioxane

Concen: 3.38 ng

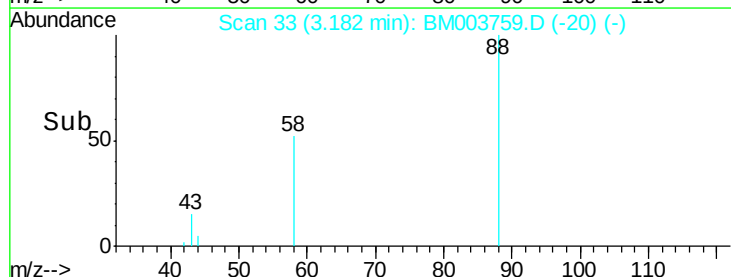
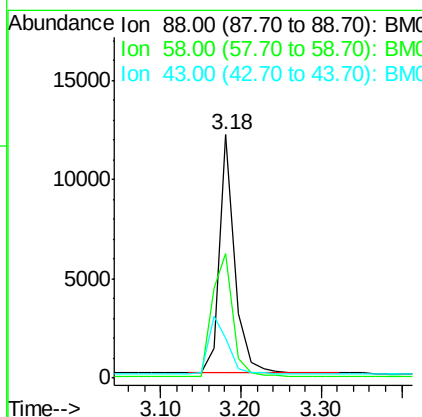
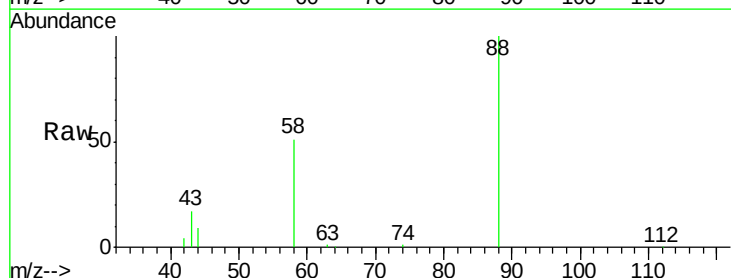
RT: 3.18 min Scan# 33

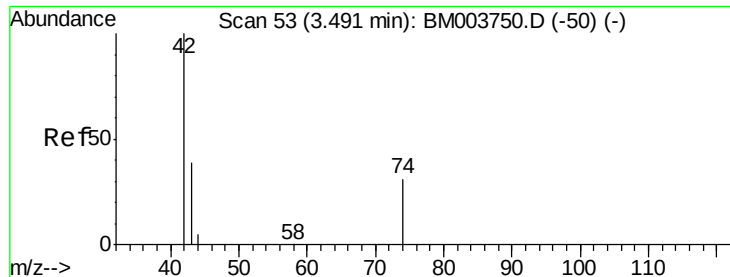
Delta R.T. 0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 88    | Resp: | 15975 |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 58        | 69.9  | 53.8  | 80.6  |
| 43        | 30.4  | 23.8  | 35.6  |





#3

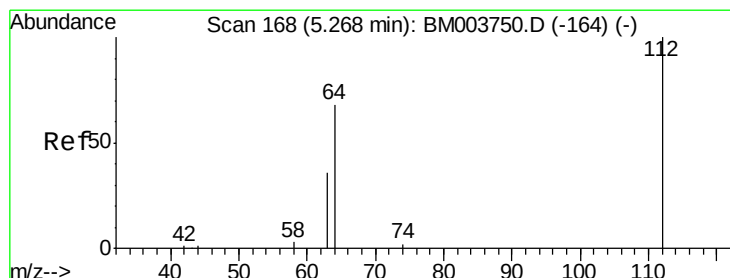
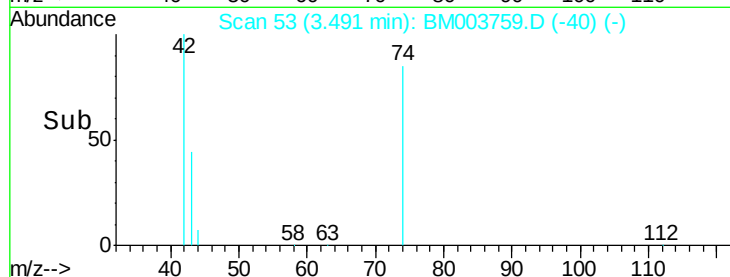
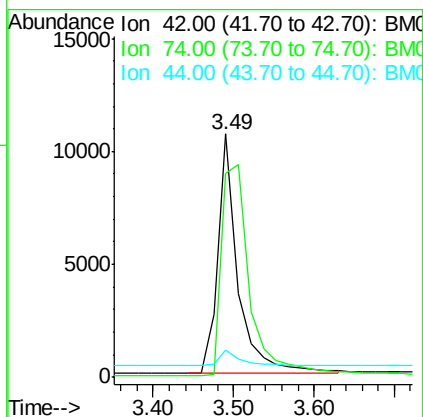
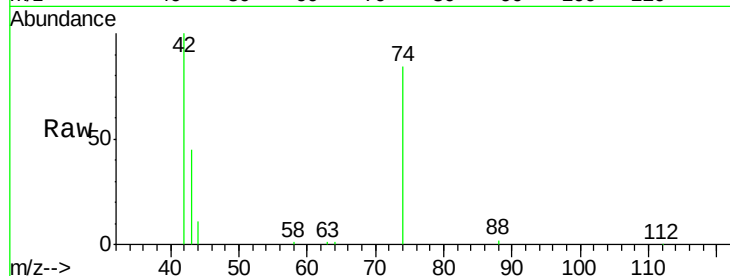
n-Nitrosodimethylamine  
Concen: 3.39 ng  
RT: 3.49 min Scan# 53  
Delta R.T. 0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

Instrument :  
BNA\_M  
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|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 18583 |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 122.7 | 95.0  | 142.4 |
| 44       | 6.3   | 5.1   | 7.7   |

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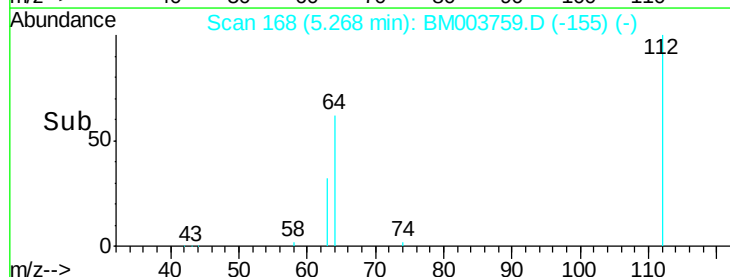
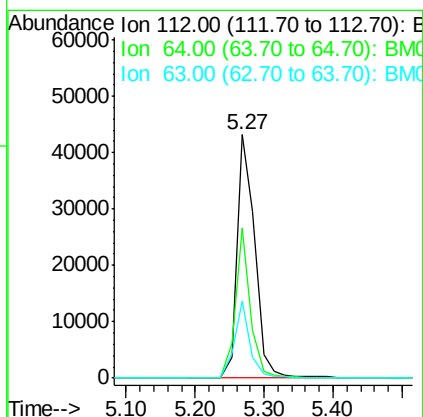
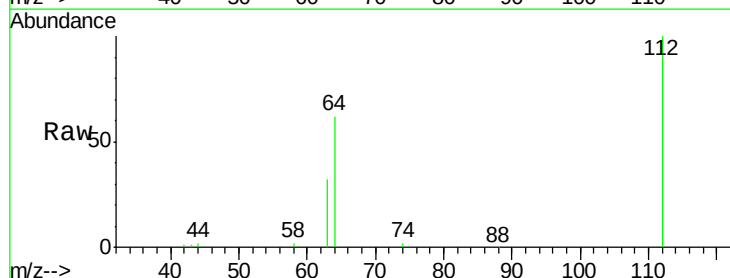
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12/24/2015 5:30:16 PM

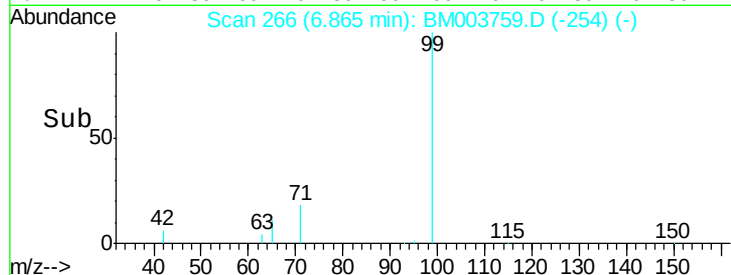
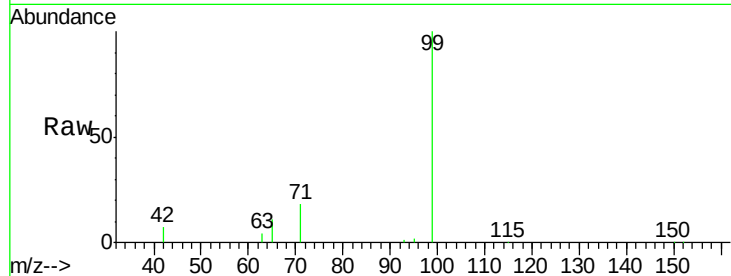
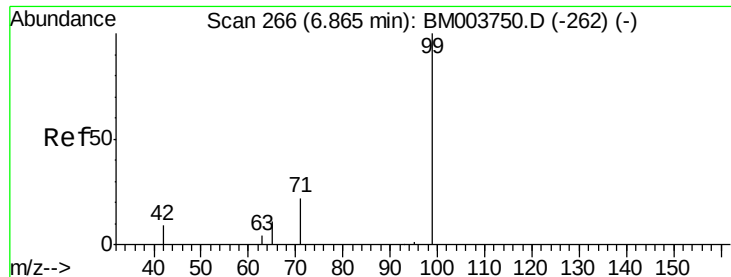


#4

2-Fluorophenol  
Concen: 6.36 ng  
RT: 5.27 min Scan# 168  
Delta R.T. 0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 77379 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 52.5  | 41.8  | 62.8  |
| 63       | 27.6  | 22.1  | 33.1  |





#5

Phenol-d6

Concen: 6.77 ng

RT: 6.87 min Scan# 266

Delta R.T. 0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 100904 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.3  | 16.2  | 24.2   |
| 71        | 30.8  | 24.4  | 36.6   |

Instrument :

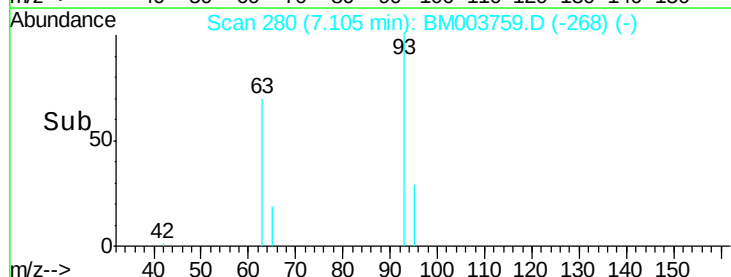
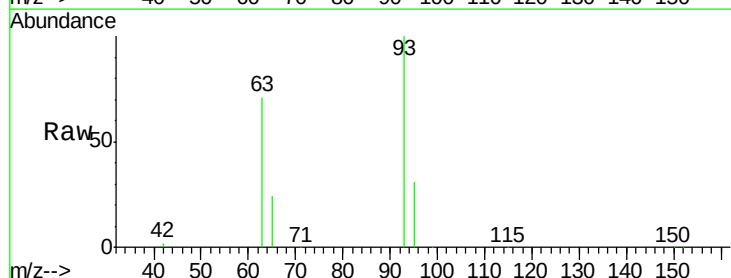
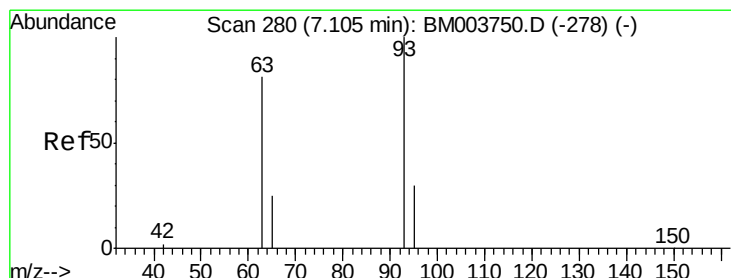
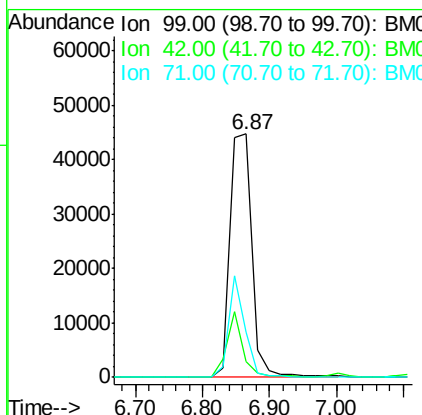
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ClientSampleId :

PB87313BSD

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#6

bis(2-Chloroethyl)ether

Concen: 3.41 ng

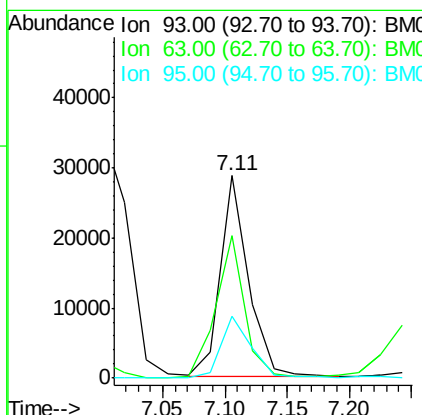
RT: 7.11 min Scan# 280

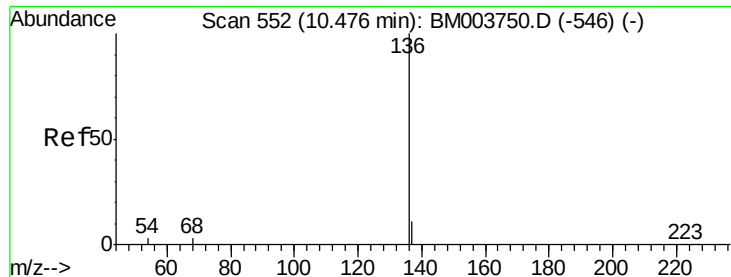
Delta R.T. 0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 45220 |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 72.3  | 58.3  | 87.5  |
| 95        | 32.8  | 25.8  | 38.8  |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.48 min Scan# 552

Delta R.T. 0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

Instrument :

BNA\_M

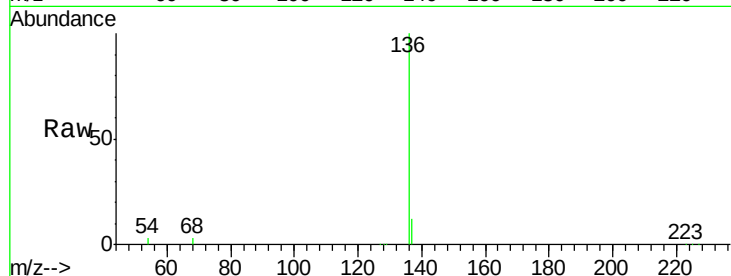
ClientSampleId :

PB87313BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.7  | 9.2   | 13.8  |
| 54      | 3.4   | 2.8   | 4.2   |
| 68      | 3.0   | 2.5   | 3.7   |

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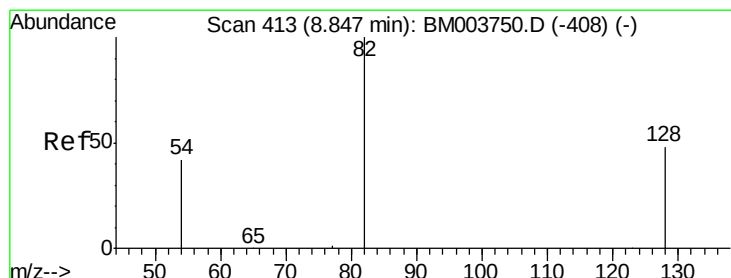
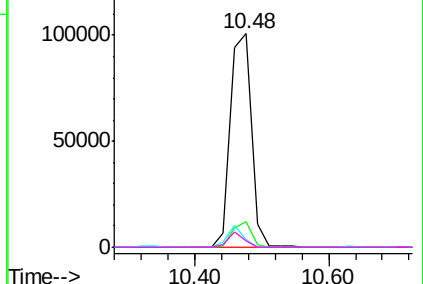
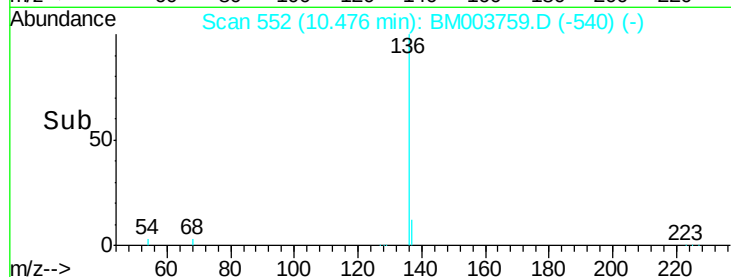


Abundance Ion 136.00 (135.70 to 136.70): B

Ion 137.00 (136.70 to 137.70): B

Ion 54.00 (53.70 to 54.70): B

Ion 68.00 (67.70 to 68.70): B



#8

Nitrobenzene-d5

Concen: 3.83 ng

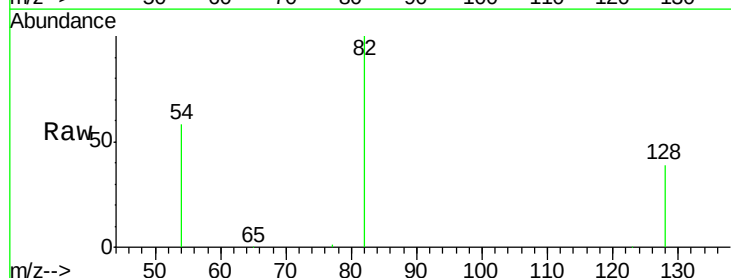
RT: 8.84 min Scan# 412

Delta R.T. -0.01 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

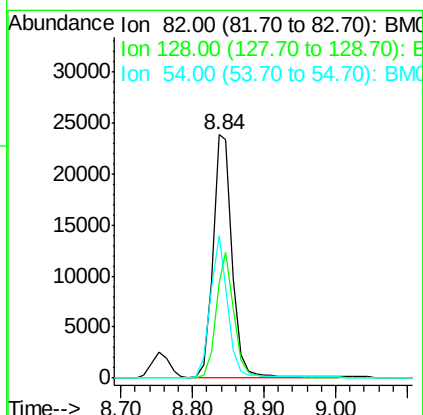
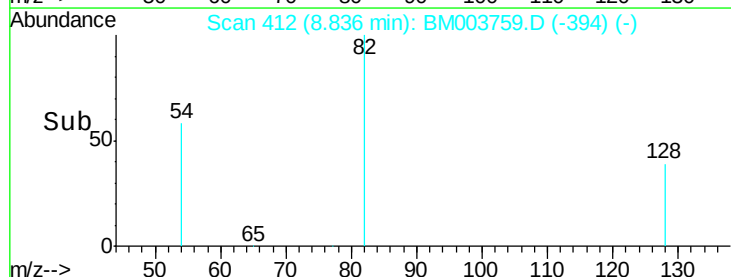
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 38.8  | 39.1  | 58.7# |
| 54      | 58.4  | 34.8  | 52.2# |

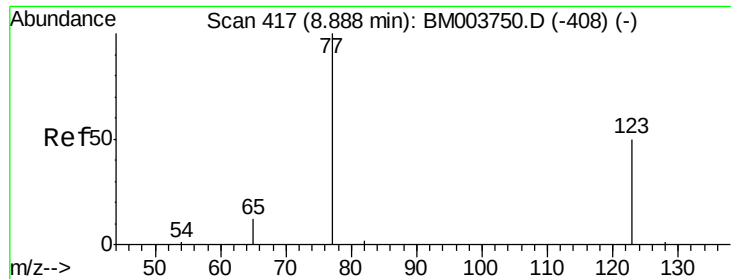


Abundance Ion 82.00 (81.70 to 82.70): B

Ion 128.00 (127.70 to 128.70): B

Ion 54.00 (53.70 to 54.70): B





#9

Nitrobenzene

Concen: 3.49 ng

RT: 8.88 min Scan# 416

Delta R.T. -0.01 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

Instrument :

BNA\_M

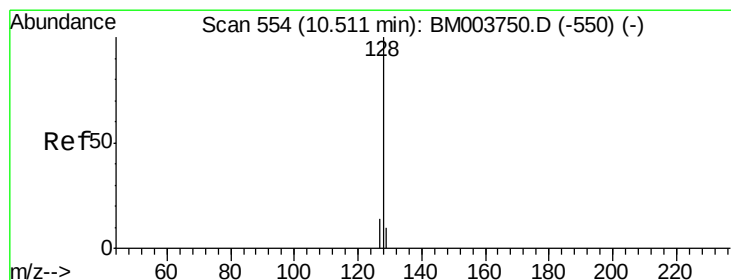
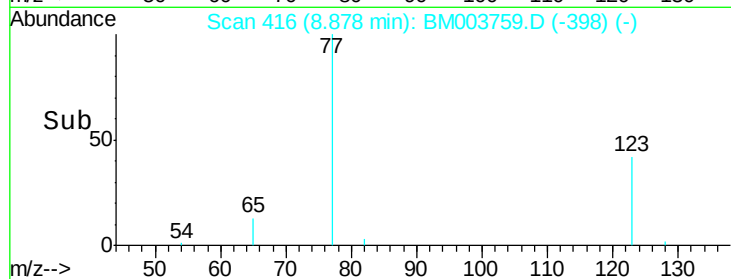
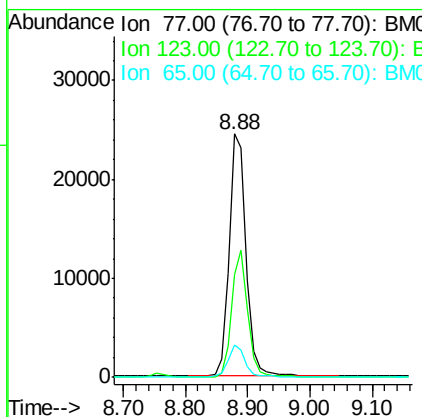
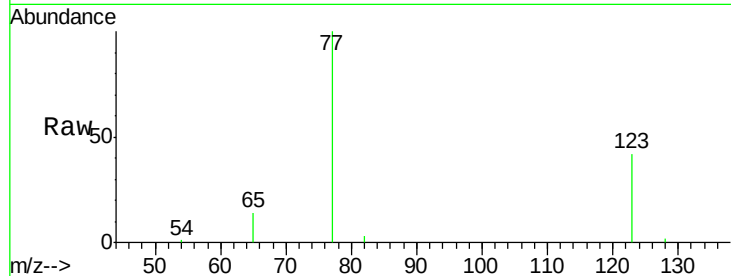
ClientSampleId :

PB87313BSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 77    | Resp: | 46319 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 49.9  | 38.6  | 57.8  |
| 65       | 12.8  | 9.9   | 14.9  |

Manual Integrations  
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#10

Naphthalene

Concen: 3.38 ng

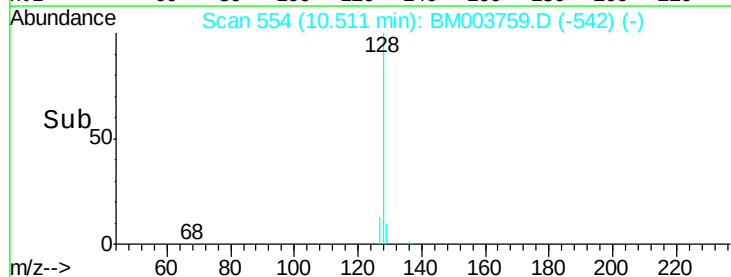
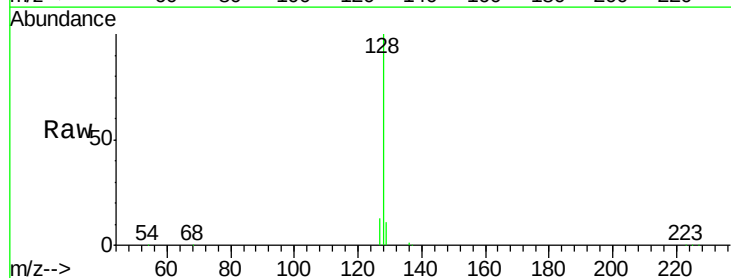
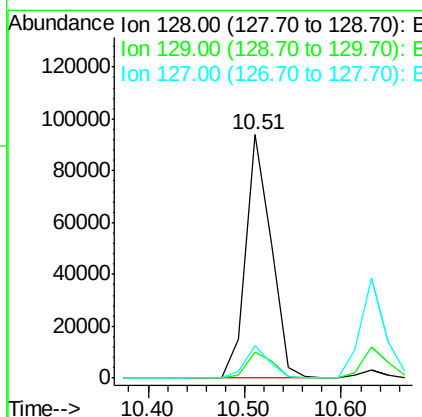
RT: 10.51 min Scan# 554

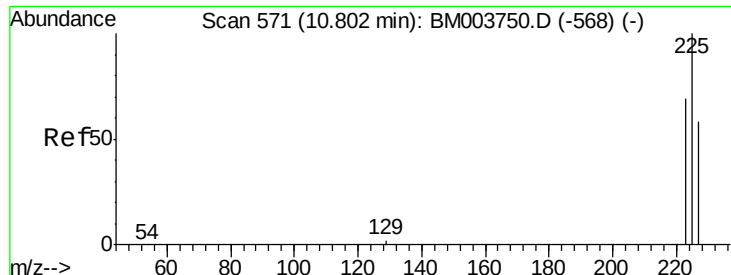
Delta R.T. 0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 170008 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 10.6  | 8.5   | 12.7   |
| 127      | 13.4  | 11.0  | 16.4   |





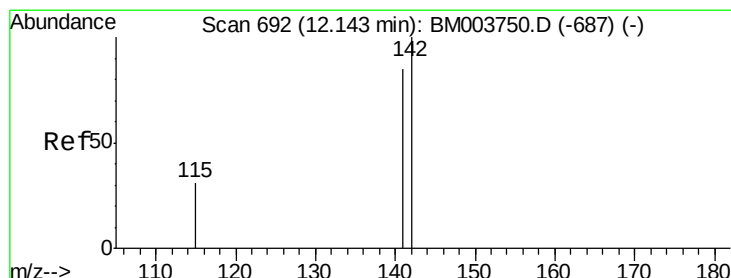
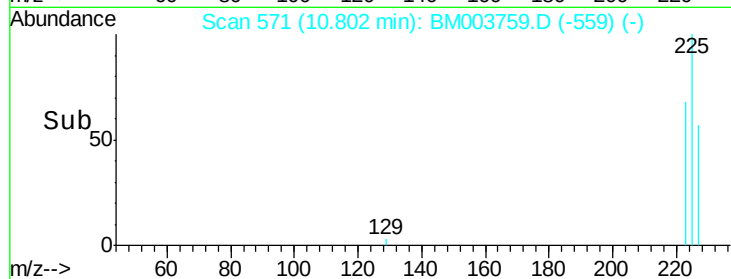
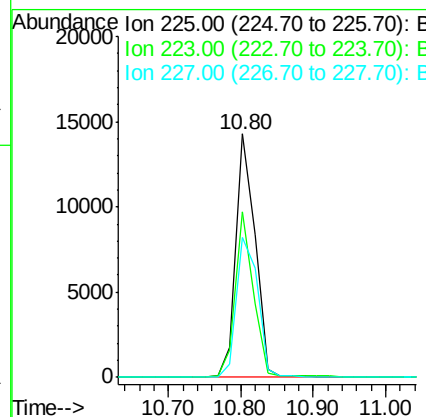
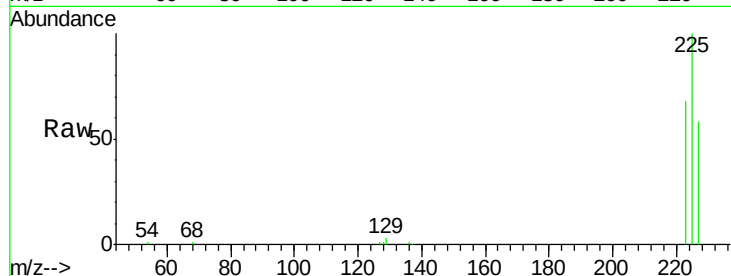
#11  
Hexachlorobutadiene  
Concen: 3.29 ng  
RT: 10.80 min Scan# 571  
Delta R.T. 0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

Instrument :  
BNA\_M  
ClientSampleId :  
PB87313BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.2  | 50.9  | 76.3  |
| 227     | 63.5  | 51.2  | 76.8  |

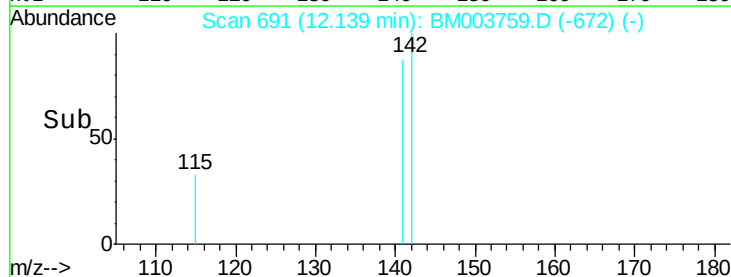
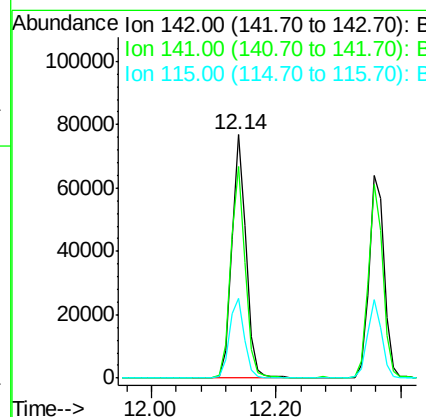
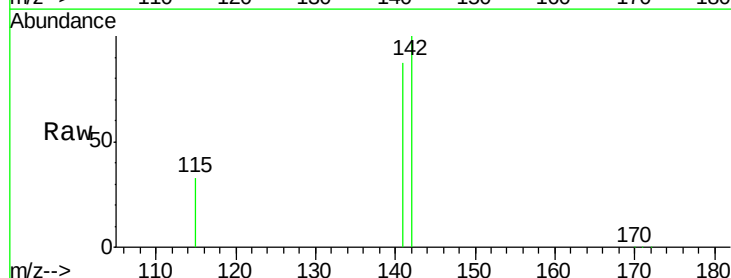
Manual Integrations  
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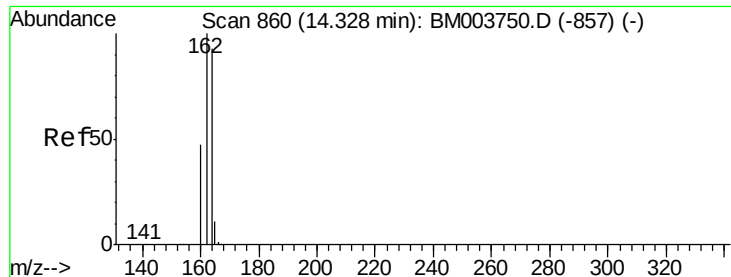


#12  
2-Methylnaphthalene  
Concen: 3.65 ng  
RT: 12.14 min Scan# 691  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.2  | 67.8  | 101.8 |
| 115     | 32.8  | 25.3  | 37.9  |







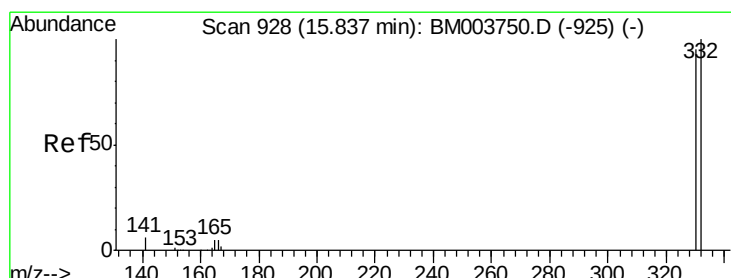
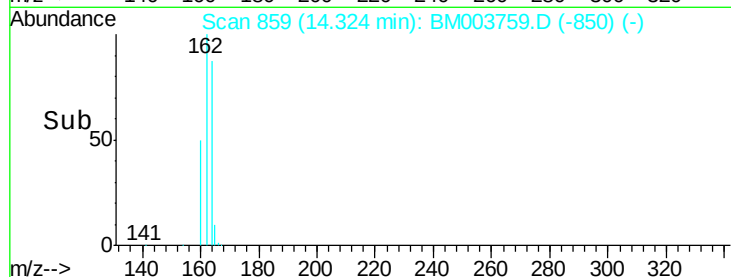
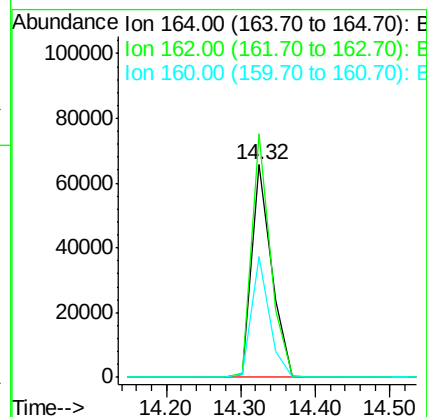
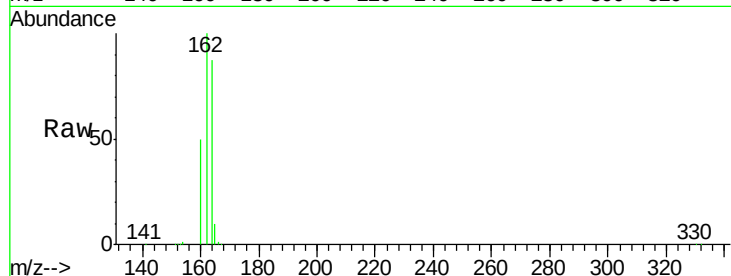
#13  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.32 min Scan# 859  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

Instrument :  
BNA\_M  
ClientSampleId :  
PB87313BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 114.6 | 86.0  | 129.0 |
| 160     | 56.9  | 40.3  | 60.5  |

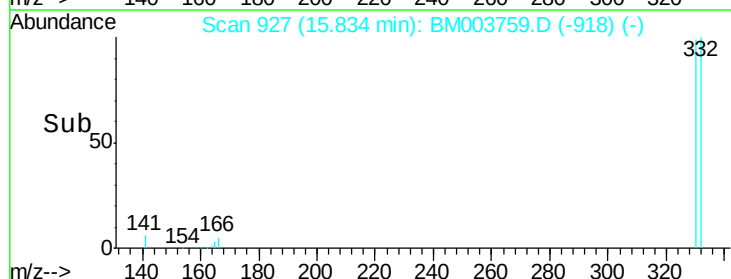
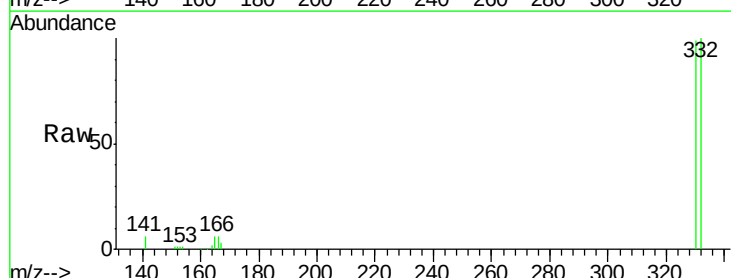
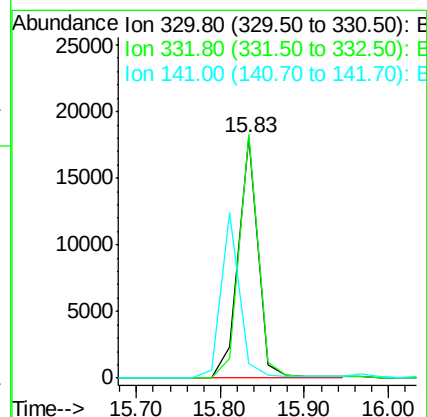
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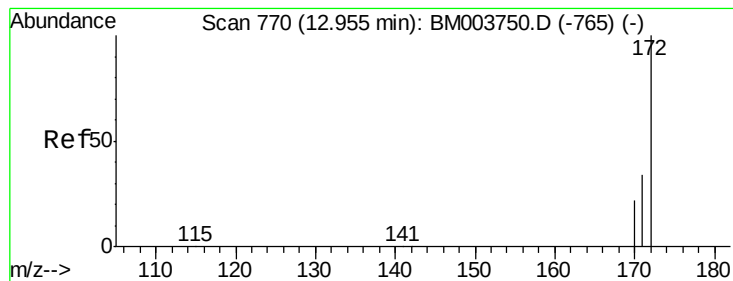
Sohil  
12/24/2015 5:30:16 PM



#14  
2,4,6-Tribromophenol  
Concen: 7.58 ng  
RT: 15.83 min Scan# 927  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.9  | 79.0  | 118.4 |
| 141     | 0.0   | 0.0   | 0.0   |





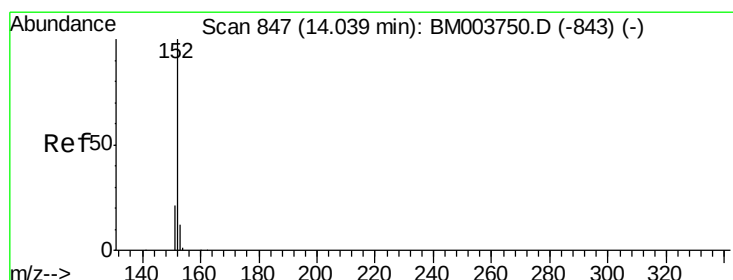
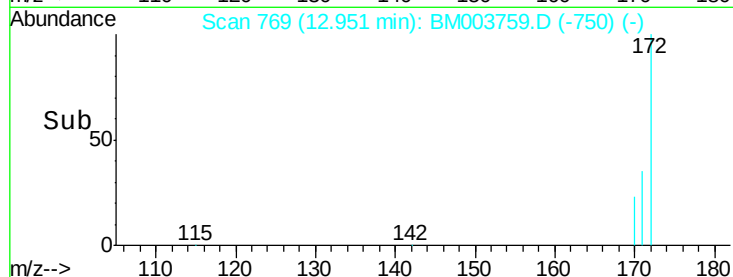
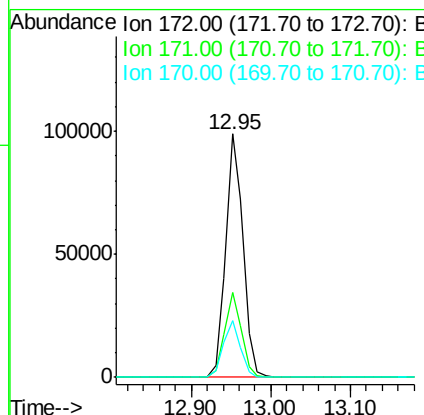
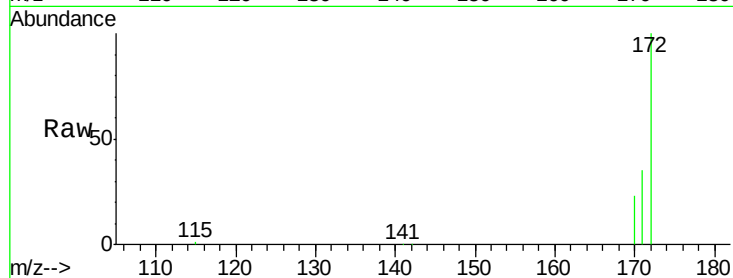
#15  
2-Fluorobiphenyl  
Concen: 4.03 ng  
RT: 12.95 min Scan# 769  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

Instrument :  
BNA\_M  
ClientSampleId :  
PB87313BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.0  | 27.0  | 40.6  |
| 170     | 23.5  | 17.9  | 26.9  |

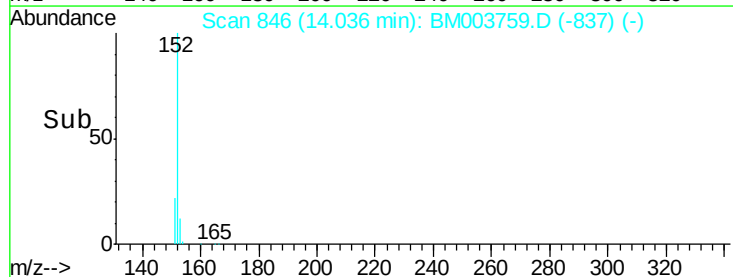
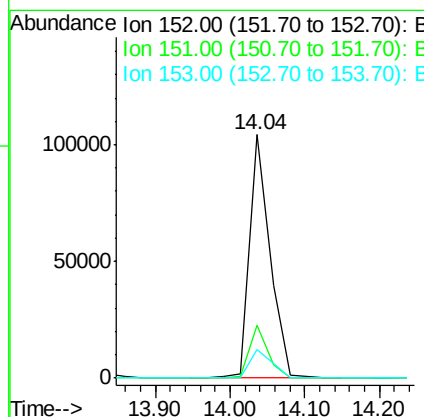
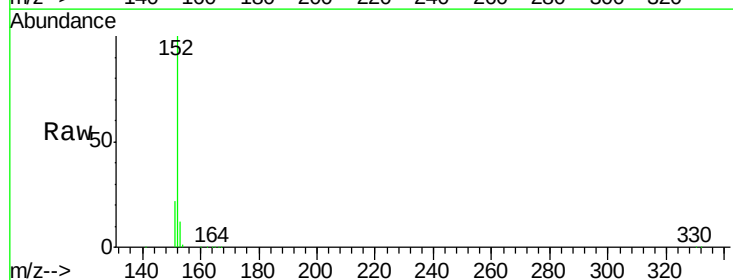
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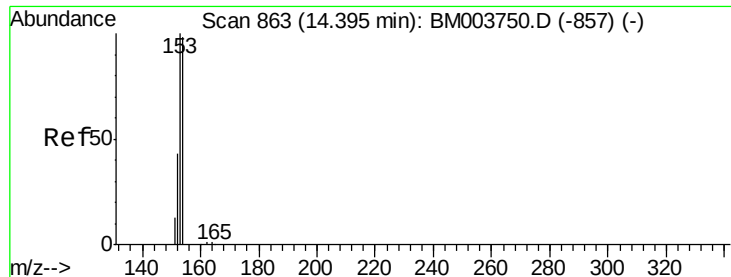
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#16  
Acenaphthylene  
Concen: 3.60 ng  
RT: 14.04 min Scan# 846  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.8  | 15.8  | 23.8  |
| 153     | 12.8  | 10.2  | 15.4  |





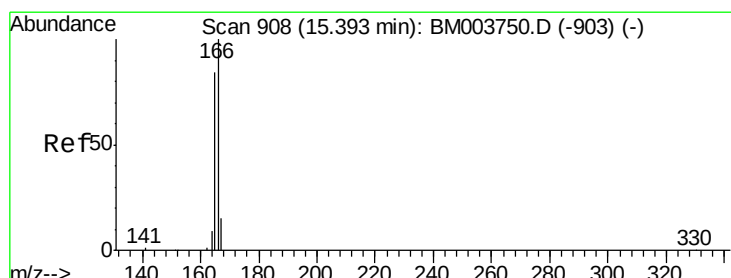
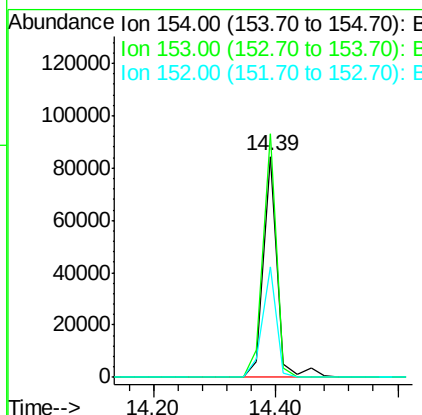
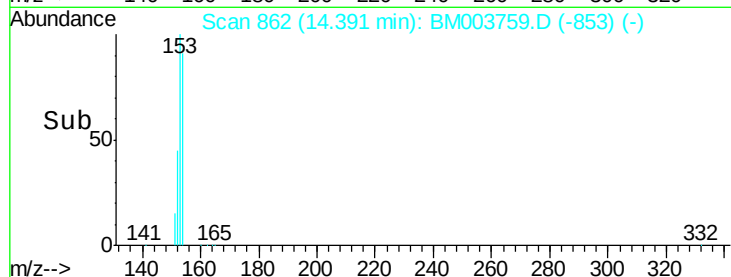
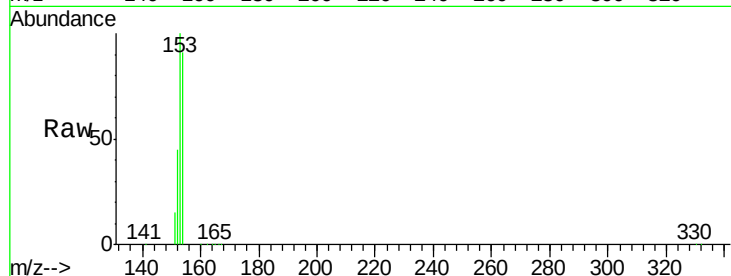
#17  
Acenaphthene  
Concen: 3.95 ng  
RT: 14.39 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

Instrument :  
BNA\_M  
ClientSampleId :  
PB87313BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 105.8 | 85.4  | 128.2 |
| 152     | 49.9  | 40.6  | 60.8  |

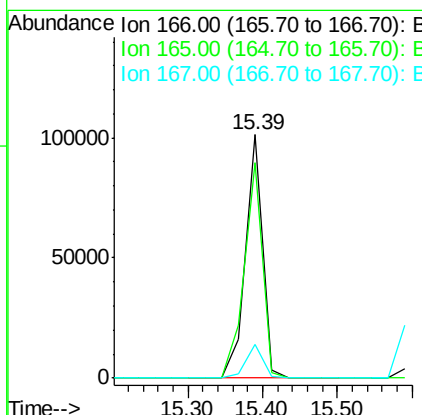
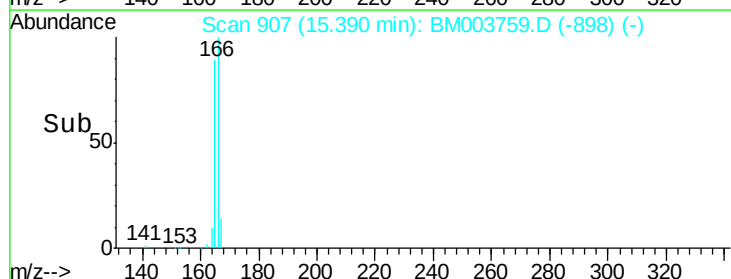
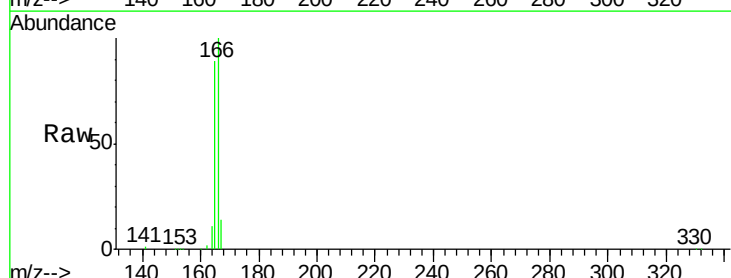
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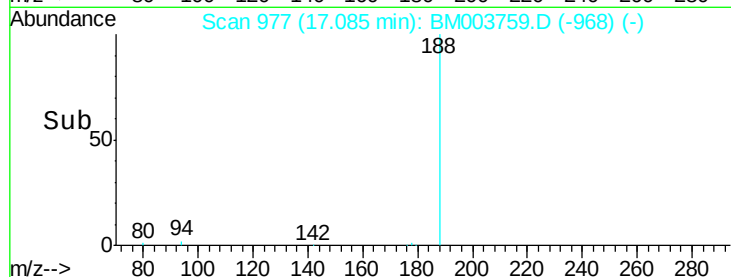
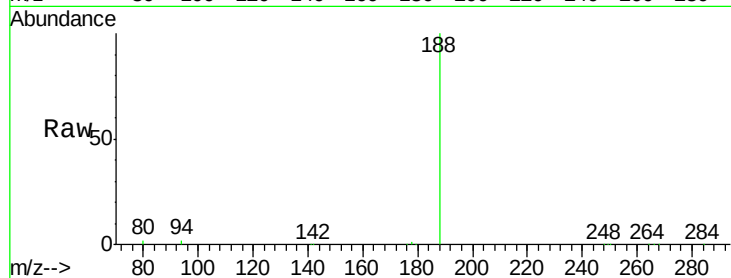
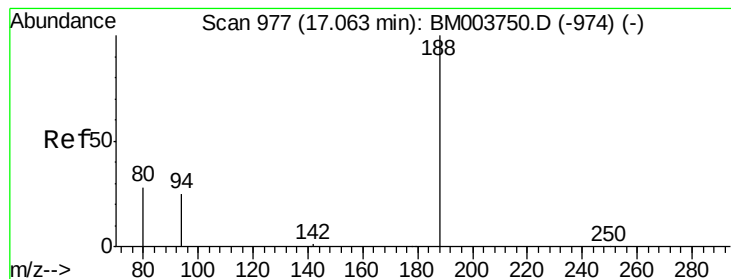
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#18  
Fluorene  
Concen: 4.00 ng  
RT: 15.39 min Scan# 907  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 94.6  | 77.2  | 115.8 |
| 167     | 13.6  | 11.0  | 16.6  |





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.08 min Scan# 977

Delta R.T. 0.02 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 233535 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 2.0   | 20.3  | 30.5#  |
| 80        | 1.5   | 22.2  | 33.4#  |

Instrument :

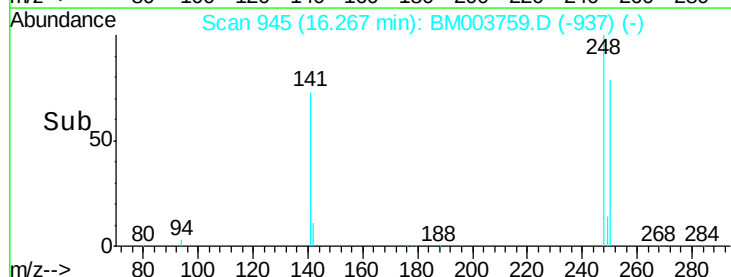
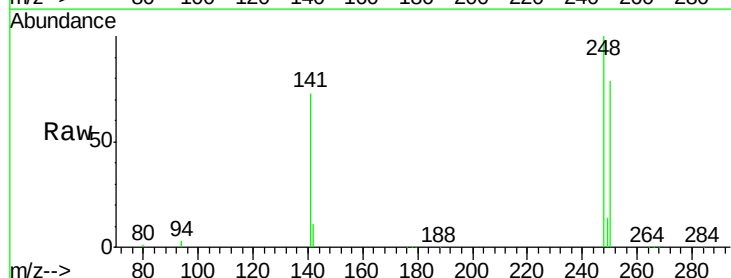
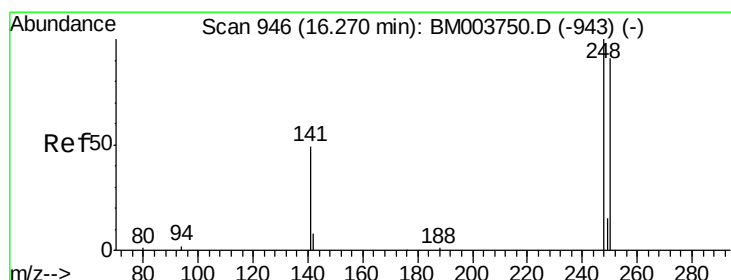
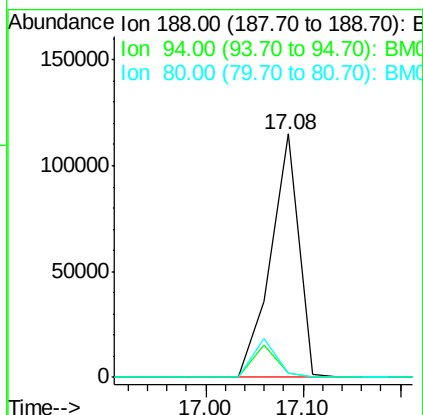
BNA\_M

ClientSampleId :

PB87313BSD

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#20

4-Bromophenyl-phenylether

Concen: 4.53 ng

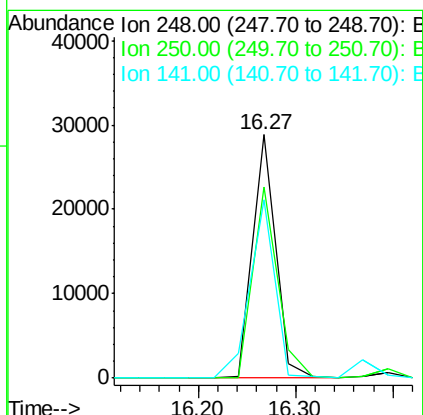
RT: 16.27 min Scan# 945

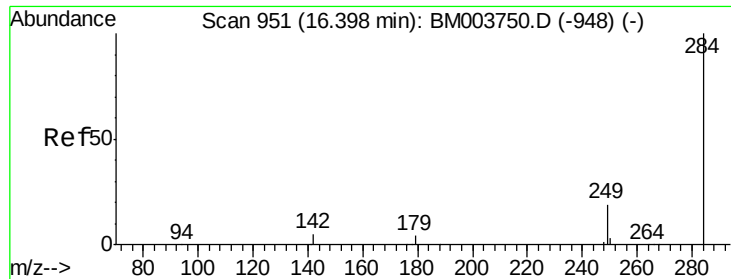
Delta R.T. -0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 47158 |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 85.1  | 75.0  | 112.4 |
| 141       | 79.2  | 53.0  | 79.4  |





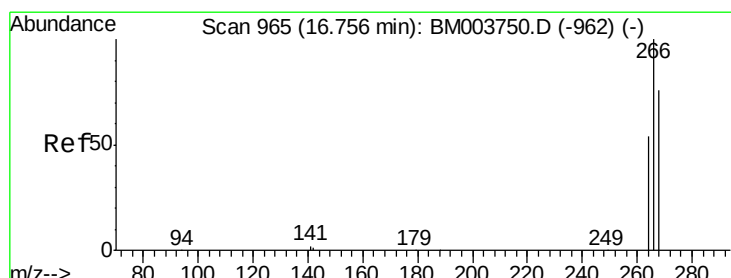
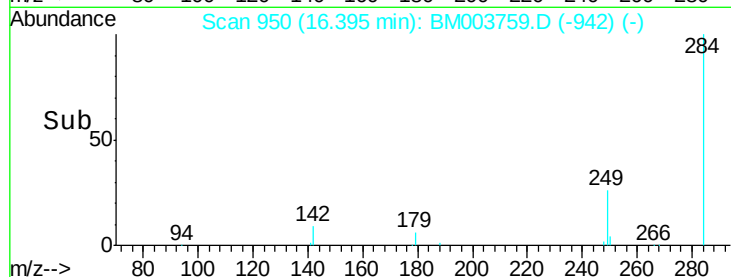
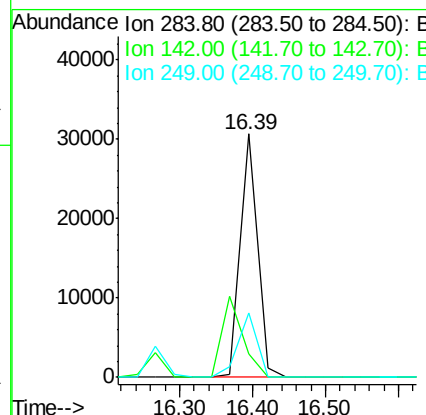
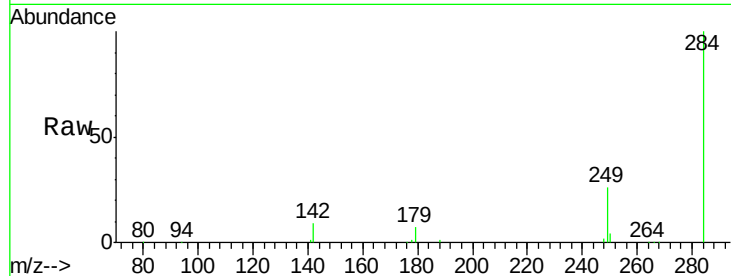
#21  
Hexachlorobenzene  
Concen: 4.94 ng  
RT: 16.39 min Scan# 950  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

Instrument :  
BNA\_M  
ClientSampleId :  
PB87313BSD

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 284     | 100   | 49383 |       |       |
| 142     | 0.0   | 0.0   | 0.0   | 0.0   |
| 249     | 29.2  | 21.5  | 32.3  |       |

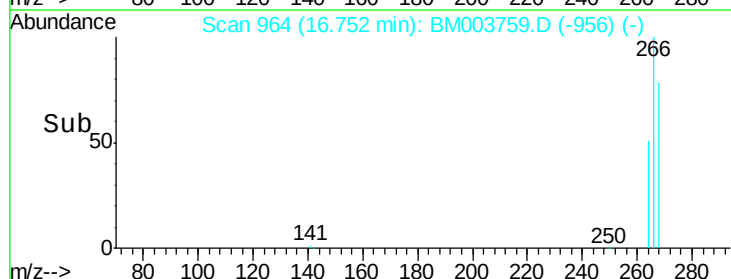
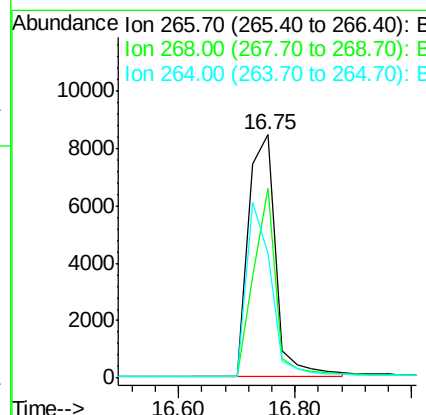
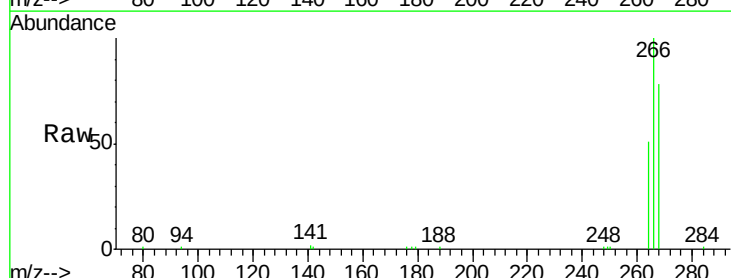
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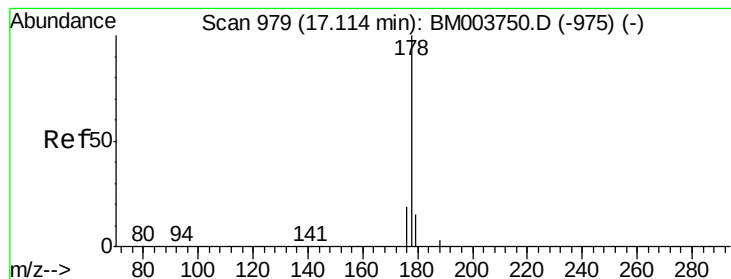
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#22  
Pentachlorophenol  
Concen: 5.58 ng  
RT: 16.75 min Scan# 964  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 266     | 100   | 27192 |       |       |
| 268     | 78.1  | 62.7  | 94.1  |       |
| 264     | 51.4  | 45.7  | 68.5  |       |





#23

Phenanthrene

Concen: 4.50 ng

RT: 17.11 min Scan# 978

Delta R.T. -0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

Instrument :

BNA\_M

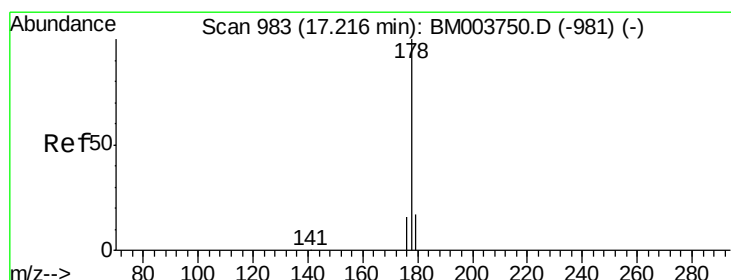
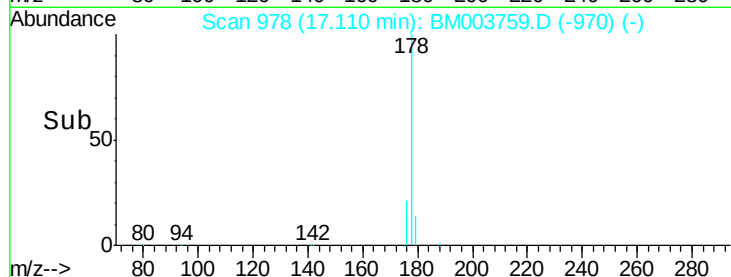
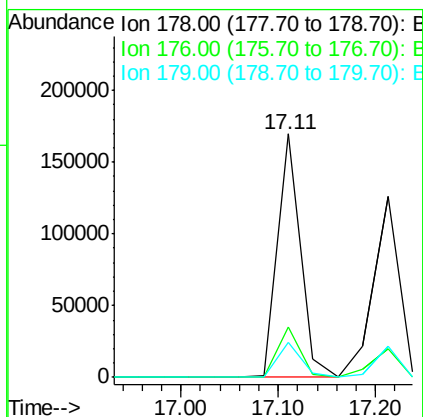
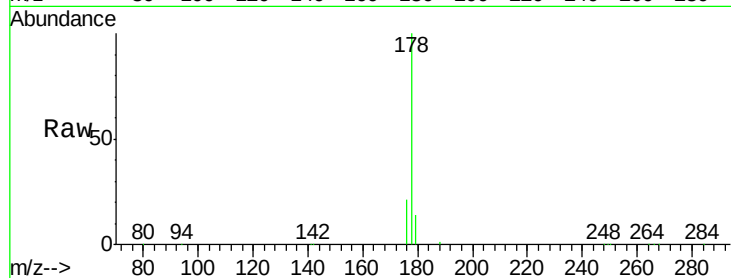
ClientSampleId :

PB87313BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.2  | 15.4  | 23.0  |
| 179     | 14.6  | 12.2  | 18.4  |

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#24

Anthracene

Concen: 4.05 ng

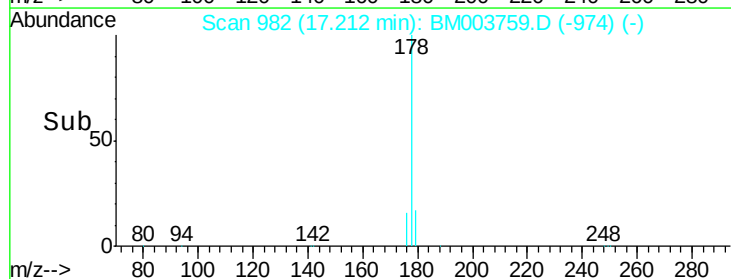
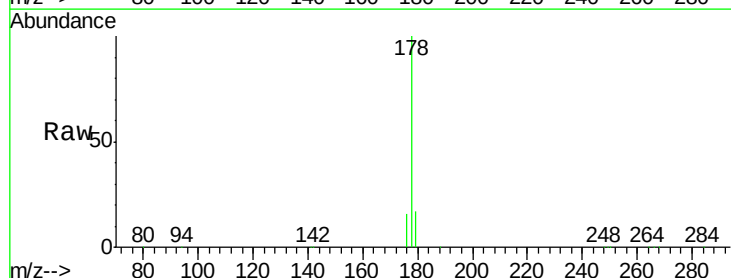
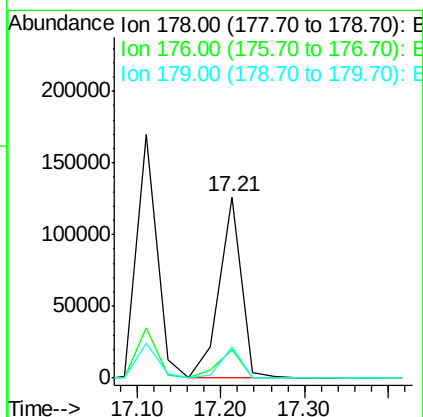
RT: 17.21 min Scan# 982

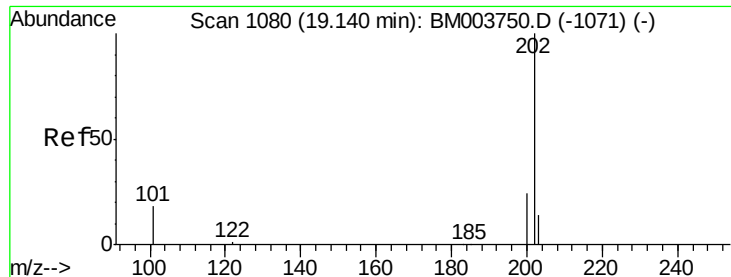
Delta R.T. -0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.5  | 14.6  | 21.8  |
| 179     | 16.1  | 12.6  | 19.0  |





#25

Fluoranthene

Concen: 3.69 ng

RT: 19.14 min Scan# 1079

Delta R.T. 0.01 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

Instrument :

BNA\_M

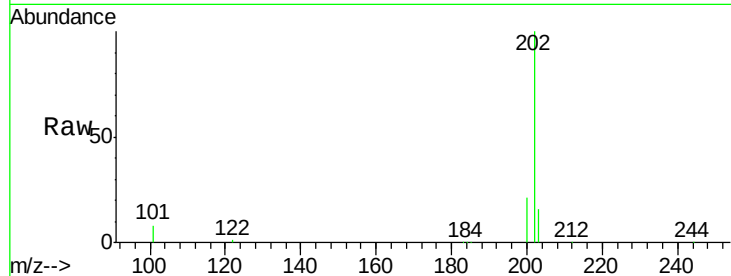
ClientSampleId :

PB87313BSD

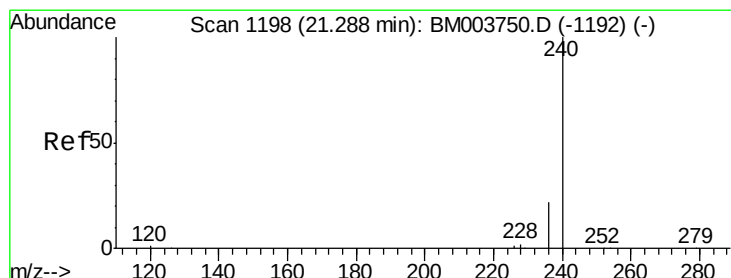
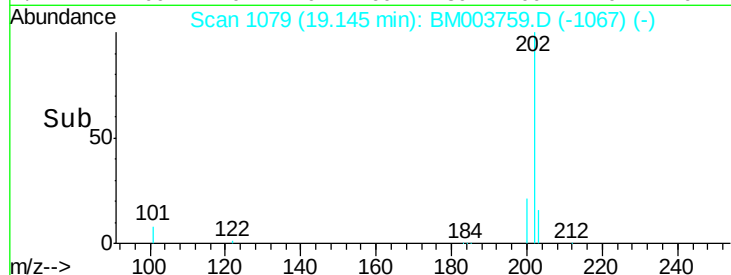
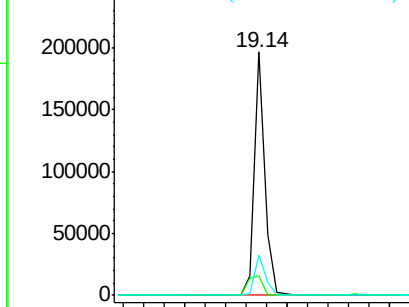
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 274666 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 101       | 11.5 | 9.7   | 14.5   |
| 203       | 17.3 | 13.8  | 20.8   |

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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

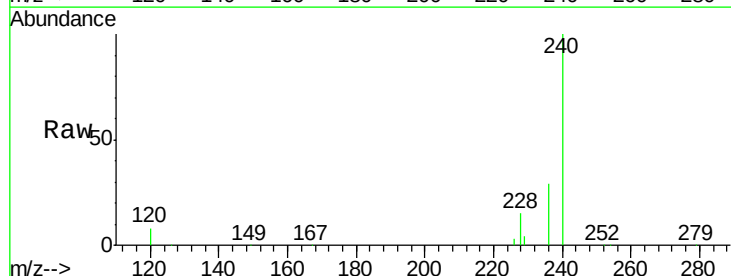
RT: 21.28 min Scan# 1196

Delta R.T. -0.01 min

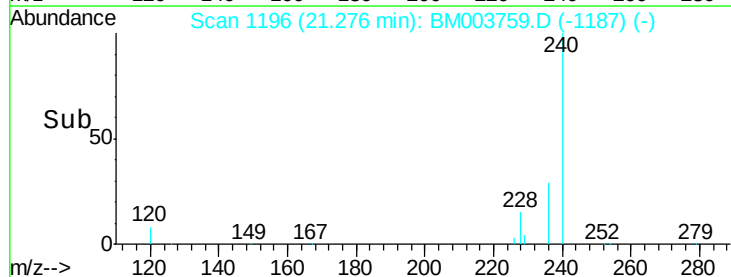
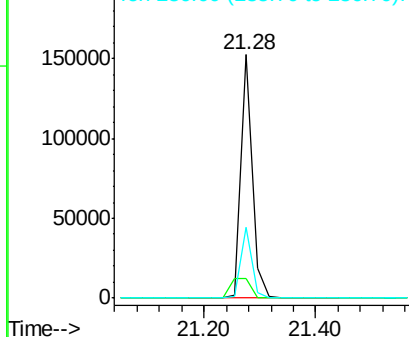
Lab File: BM003759.D

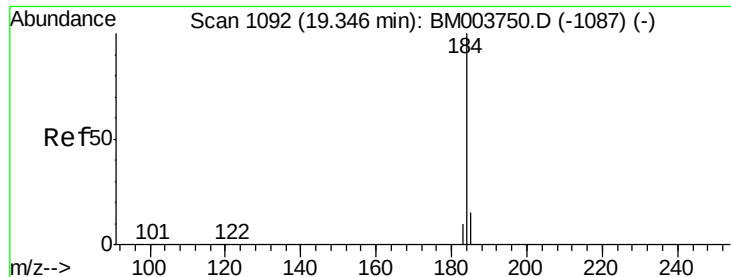
Acq: 24 Dec 2015 02:13

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 240  | Resp: | 215809 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 7.9  | 0.9   | 1.3#   |
| 236       | 29.1 | 17.3  | 25.9#  |



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: 6.92 ng

RT: 19.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

Instrument :

BNA\_M

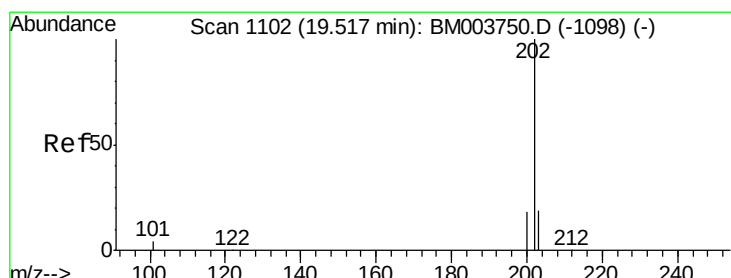
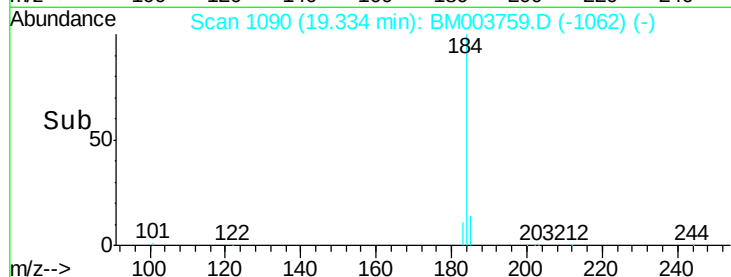
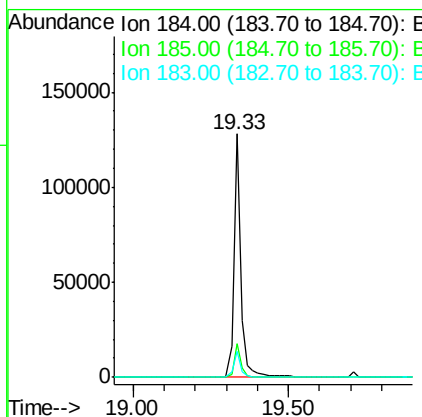
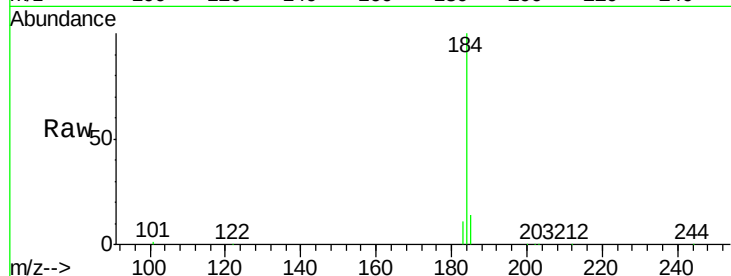
ClientSampleId :

PB87313BSD

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:184 | Resp: | 198793    |
| Ion Ratio   | Lower | Upper     |
| 184         | 100   |           |
| 185         | 13.9  | 13.2 19.8 |
| 183         | 10.8  | 9.0 13.6  |

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#28

Pyrene

Concen: 3.99 ng

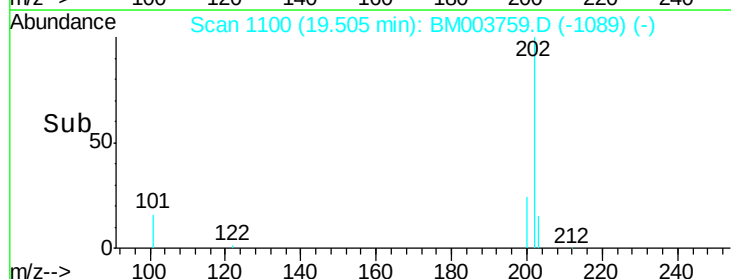
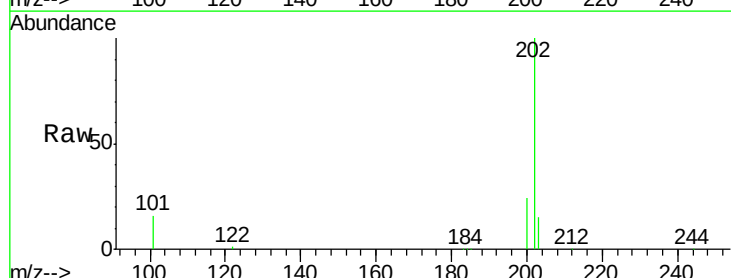
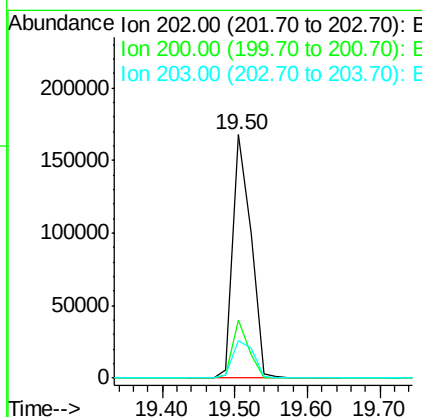
RT: 19.50 min Scan# 1100

Delta R.T. -0.01 min

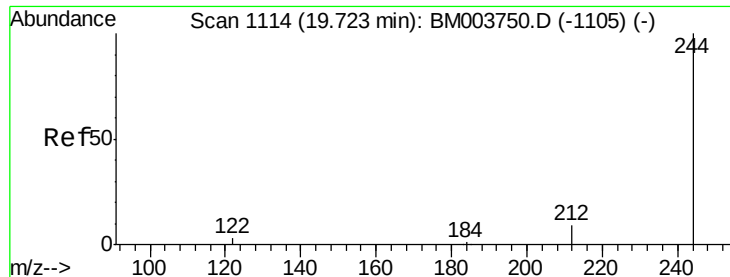
Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 285996    |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 200         | 21.1  | 16.6 24.8 |
| 203         | 17.7  | 14.0 21.0 |







#29

Terphenyl-d14

Concen: 3.95 ng

RT: 19.73 min Scan# 1113

Delta R.T. 0.01 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

Instrument :

BNA\_M

ClientSampleId :

PB87313BSD

Tot Ion:244 Resp: 135088

Ion Ratio Lower Upper

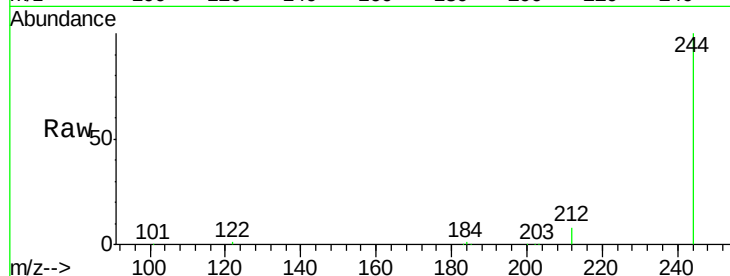
244 100

212 8.0 7.0 10.6

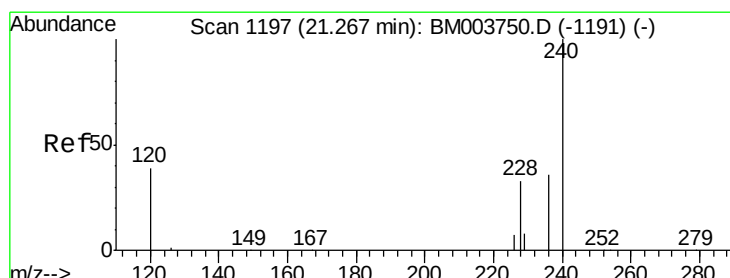
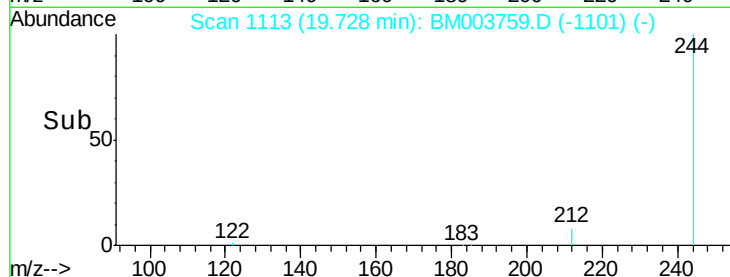
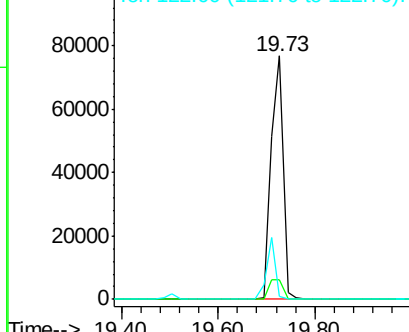
122 1.4 3.0 4.6#

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Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 3.69 ng m

RT: 21.26 min Scan# 1195

Delta R.T. -0.01 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

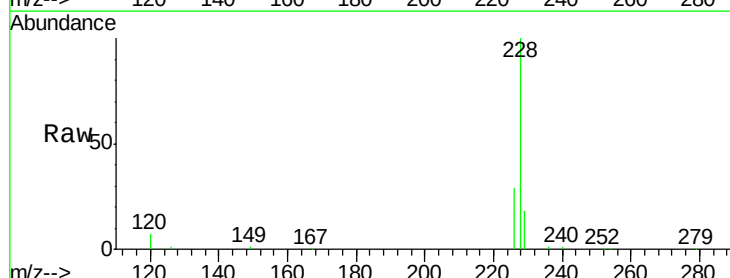
Tgt Ion:228 Resp: 238641

Ion Ratio Lower Upper

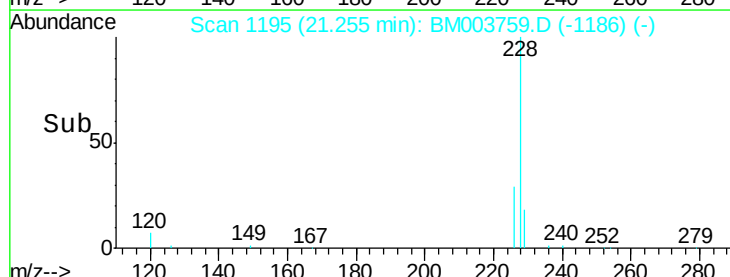
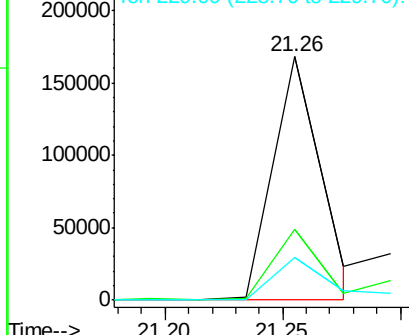
228 100

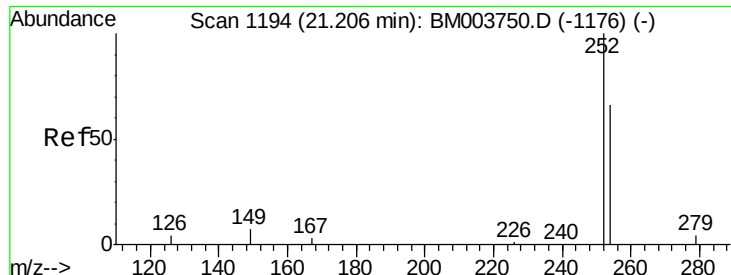
226 29.2 17.2 25.8#

229 17.8 18.7 28.1#



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





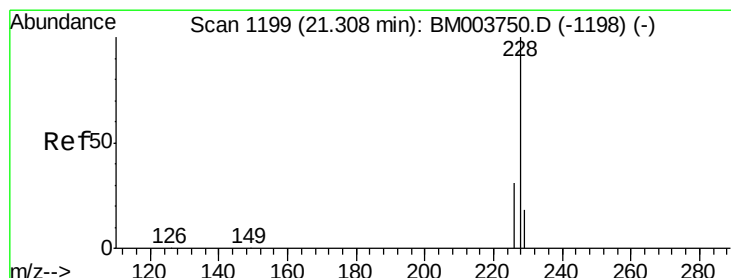
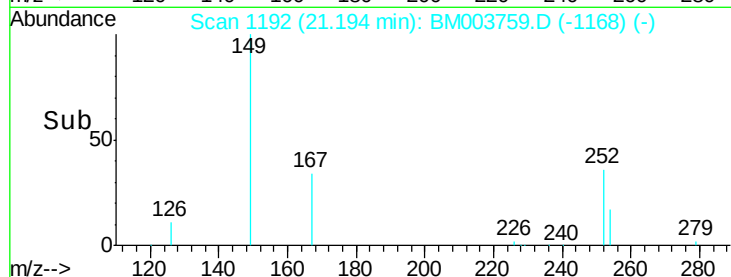
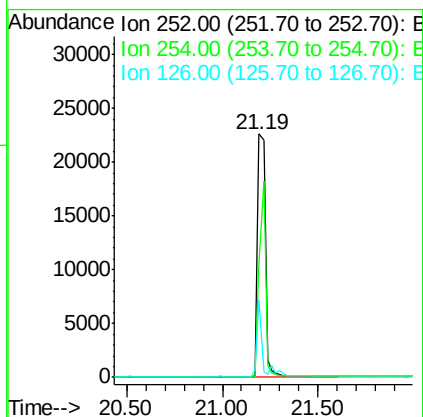
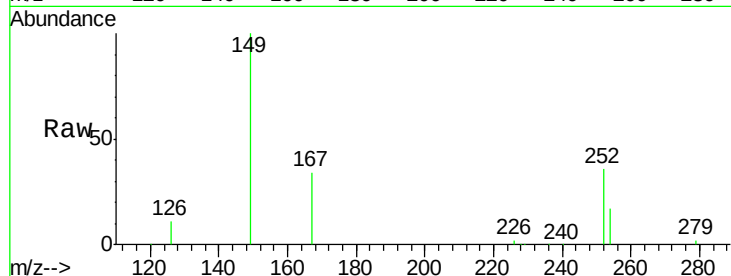
#31  
 3,3'-Dichlorobenzidine  
 Concen: 2.81 ng  
 RT: 21.19 min Scan# 1192  
 Delta R.T. -0.01 min  
 Lab File: BM003759.D  
 Acq: 24 Dec 2015 02:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87313BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 46.7  | 52.6  | 79.0# |
| 126     | 31.7  | 3.7   | 5.5#  |

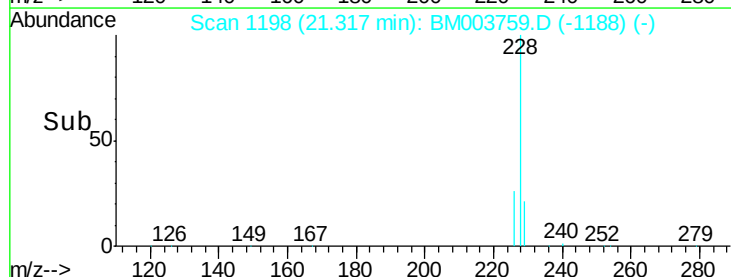
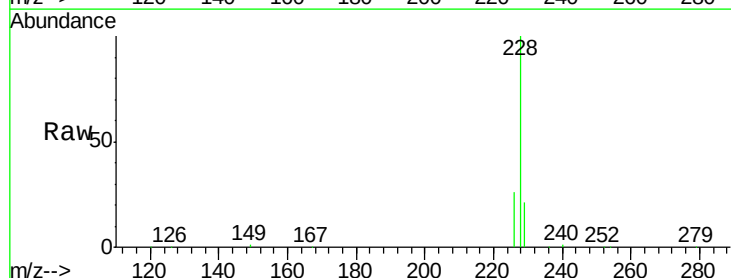
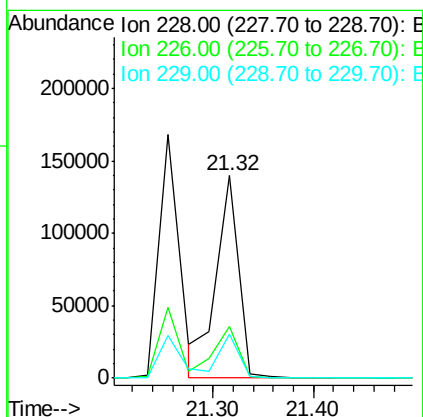
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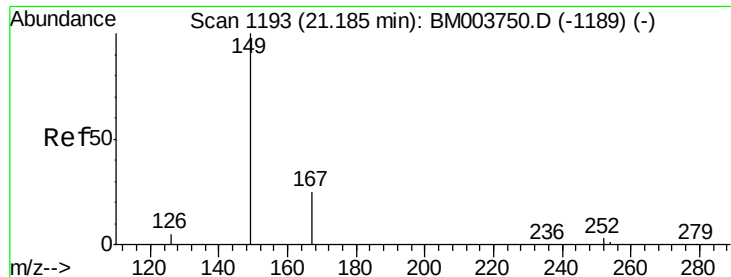
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 12/24/2015 5:30:16 PM



#32  
 Chrysene  
 Concen: 3.67 ng m  
 RT: 21.32 min Scan# 1198  
 Delta R.T. 0.01 min  
 Lab File: BM003759.D  
 Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 25.7  | 25.3  | 37.9  |
| 229     | 21.4  | 14.5  | 21.7  |





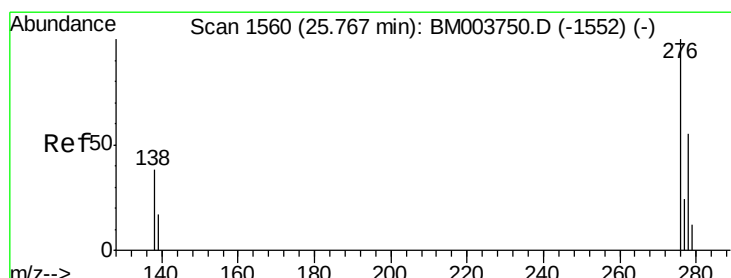
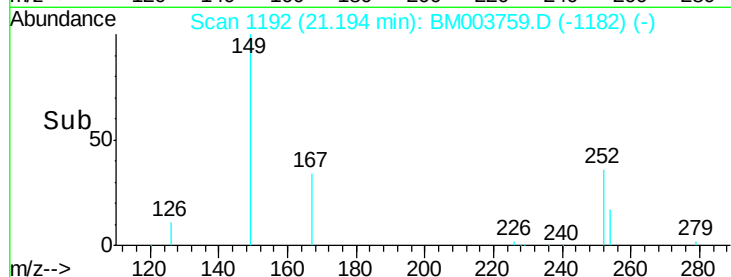
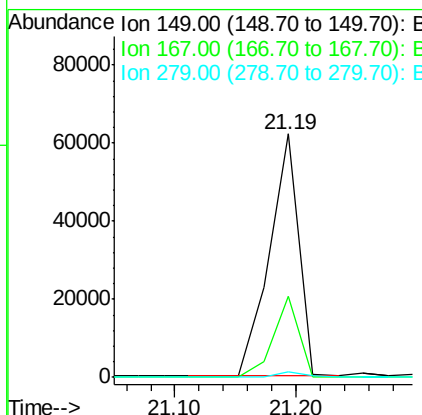
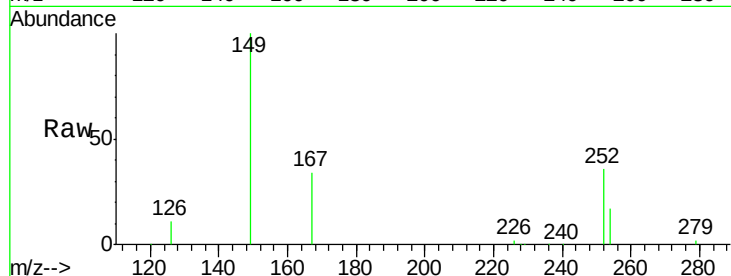
#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 2.34 ng  
 RT: 21.19 min Scan# 1192  
 Delta R.T. 0.01 min  
 Lab File: BM003759.D  
 Acq: 24 Dec 2015 02:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87313BSD

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 149     | 100   |            |            |
| 167     | 29.1  | 20.1       | 30.1       |
| 279     | 2.2   | 0.0        | 0.0        |

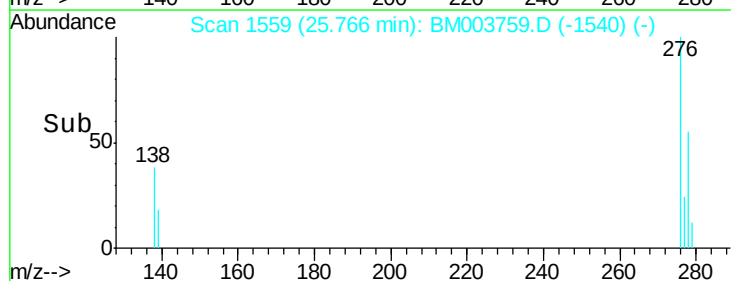
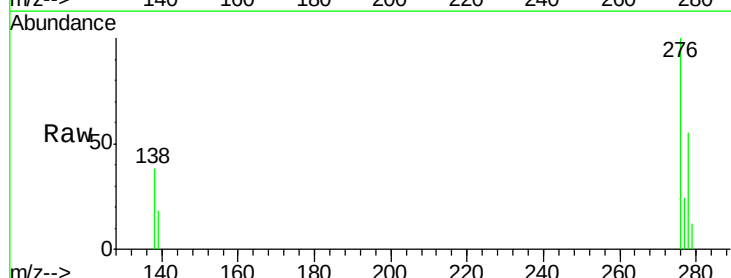
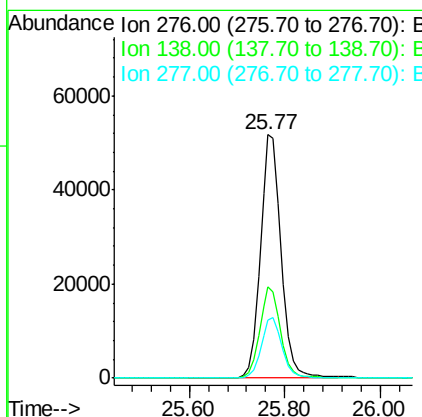
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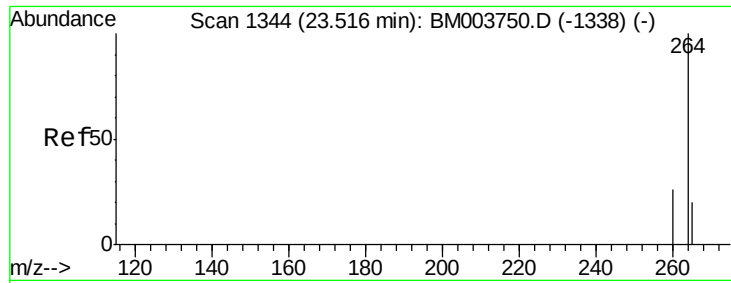
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#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.43 ng  
 RT: 25.77 min Scan# 1559  
 Delta R.T. -0.00 min  
 Lab File: BM003759.D  
 Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 37.3  | 30.2       | 45.2       |
| 277     | 24.8  | 19.8       | 29.8       |





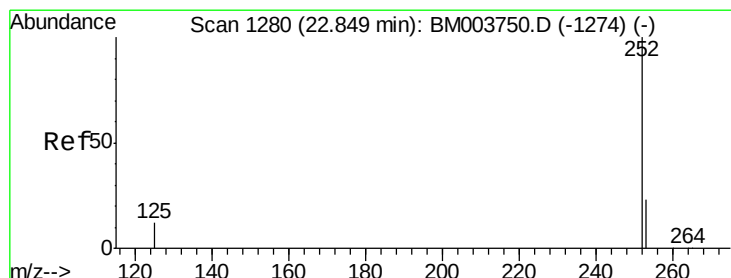
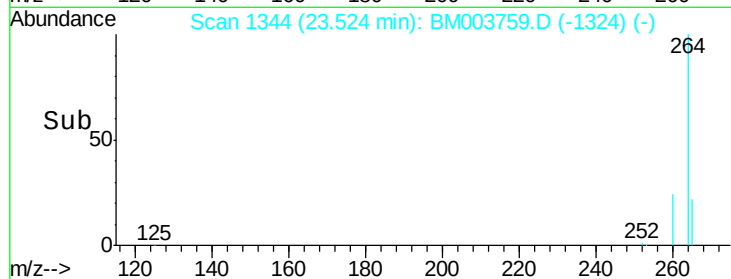
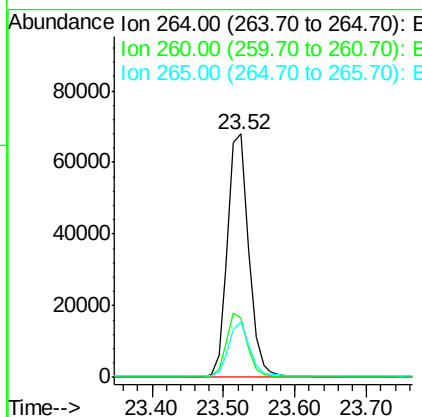
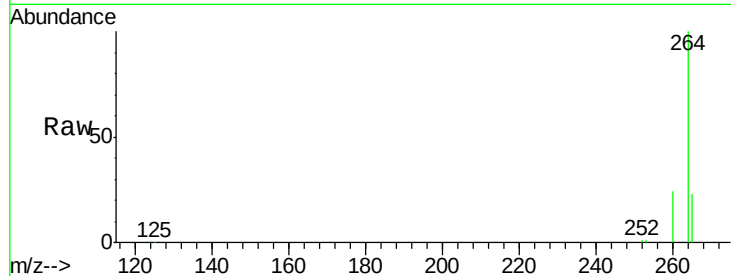
#35  
Pervlene-d12  
Concen: 5.00 ng  
RT: 23.52 min Scan# 1344  
Delta R.T. 0.01 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

Instrument :  
BNA\_M  
ClientSampleId :  
PB87313BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 21.2  | 31.8  |
| 265     | 22.7  | 16.7  | 25.1  |

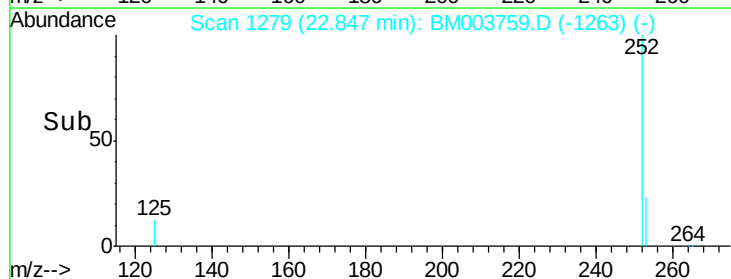
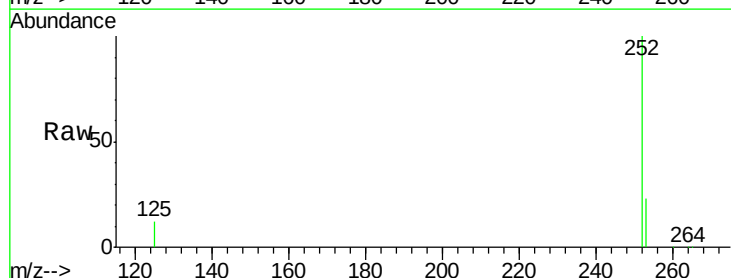
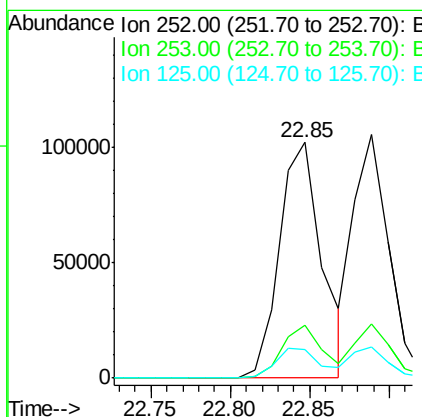
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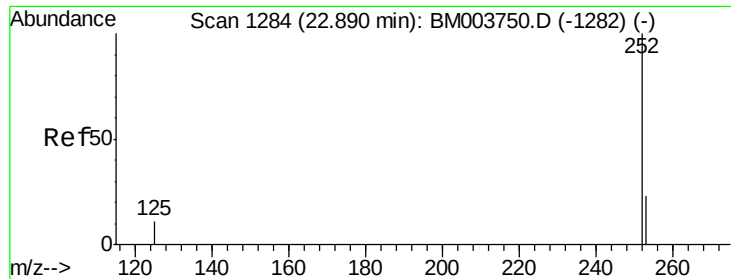
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#36  
Benzo(b)fluoranthene  
Concen: 4.13 ng  
RT: 22.85 min Scan# 1279  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 18.8  | 28.2  |
| 125     | 12.4  | 10.2  | 15.4  |





#37

Benzo(k)fluoranthene

Concen: 3.91 ng

RT: 22.89 min Scan# 1283

Delta R.T. -0.00 min

Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

Instrument :

BNA\_M

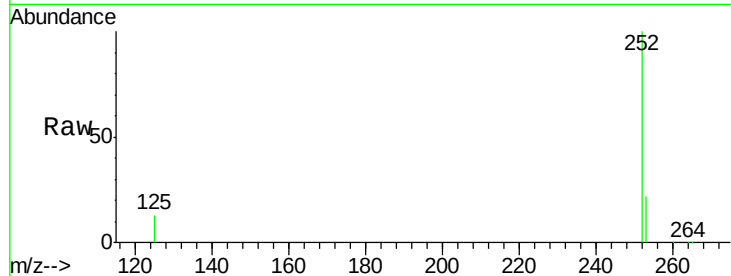
ClientSampleId :

PB87313BSD

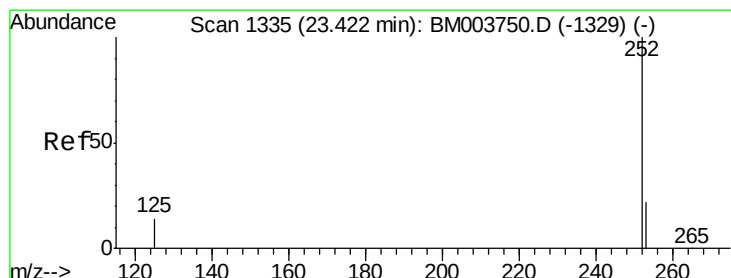
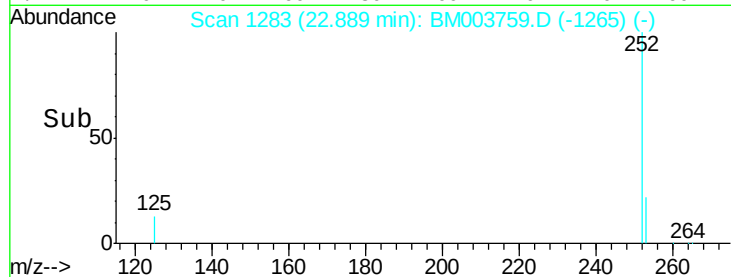
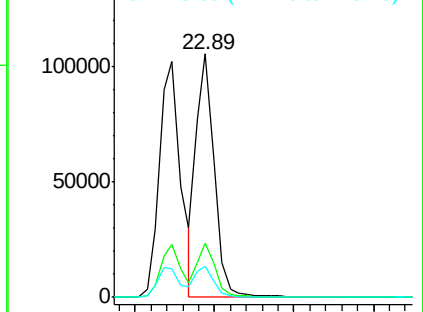
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 164895 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.1  | 18.3  | 27.5   |
| 125       | 12.7  | 10.6  | 15.8   |

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



#38

Benzo(a)pyrene

Concen: 4.03 ng

RT: 23.42 min Scan# 1334

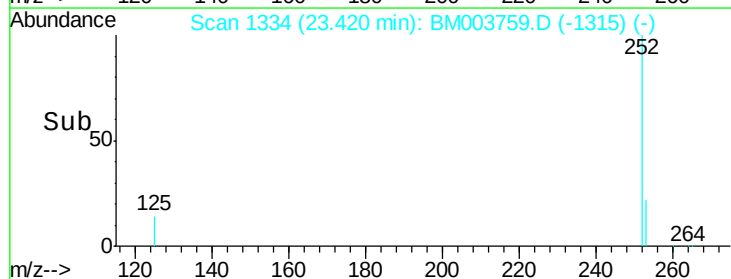
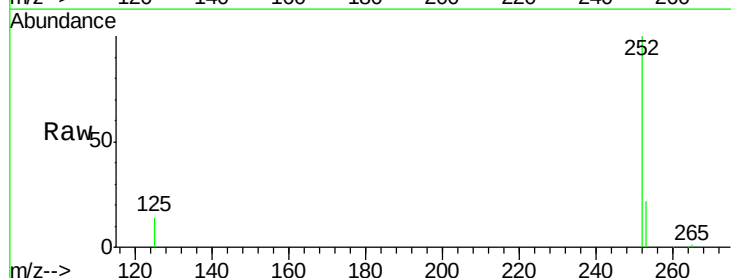
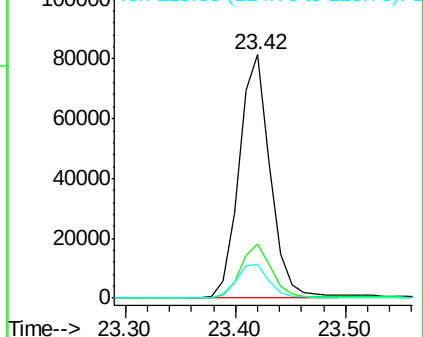
Delta R.T. -0.00 min

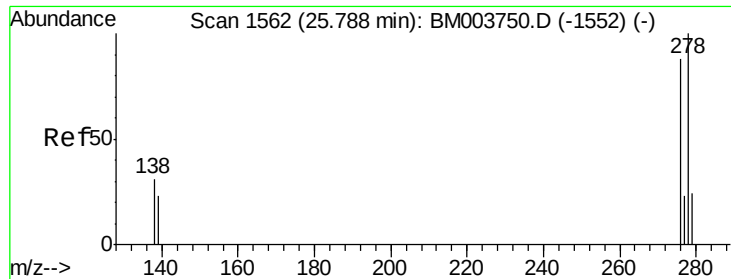
Lab File: BM003759.D

Acq: 24 Dec 2015 02:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 158134 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.2  | 18.7  | 28.1   |
| 125       | 13.9  | 11.8  | 17.8   |

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





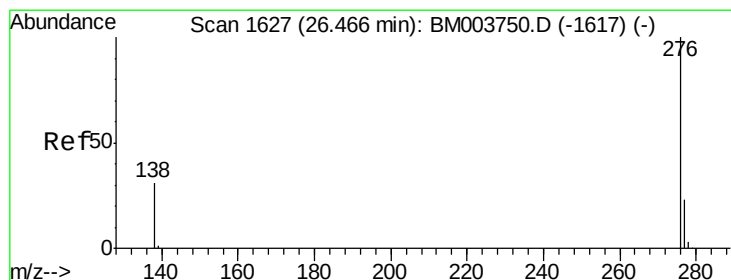
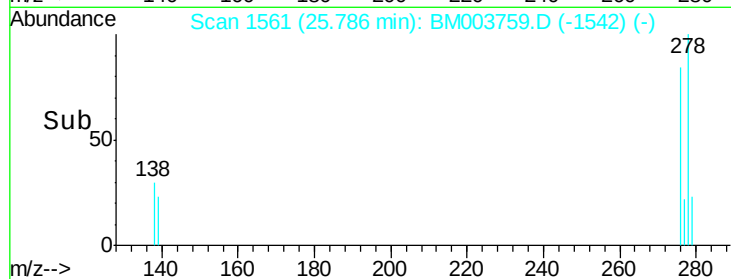
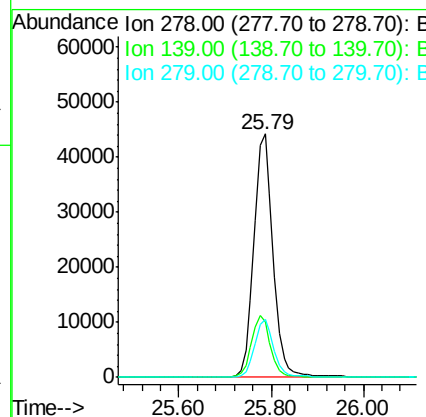
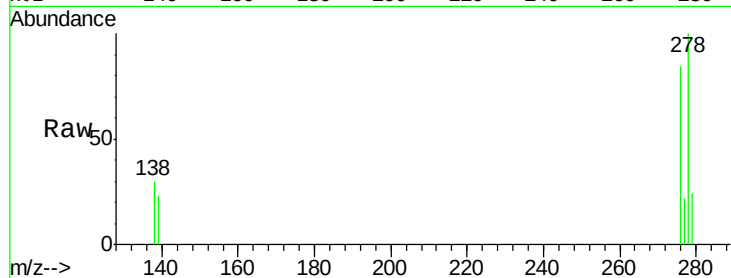
#39  
Dibenzo(a,h)anthracene  
Concen: 4.14 ng  
RT: 25.79 min Scan# 1561  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

Instrument :  
BNA\_M  
ClientSampleId :  
PB87313BSD

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 278     | 100   |            |       |
| 139     | 22.8  | 19.0       | 28.6  |
| 279     | 23.7  | 19.6       | 29.4  |

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#40  
Benzo(g,h,i)perylene  
Concen: 4.10 ng  
RT: 26.46 min Scan# 1626  
Delta R.T. -0.00 min  
Lab File: BM003759.D  
Acq: 24 Dec 2015 02:13

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 23.4  | 19.1       | 28.7  |
| 138     | 30.1  | 25.0       | 37.4  |

