

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090216\  
 Data File : BM007365.D  
 Acq On : 02 Sep 2016 12:41  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTDCCC0.4

Manual Integrations  
 APPROVED

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 9/2/2016 5:20:31 PM

Quant Time: Sep 02 14:26:34 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM090116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 02 12:51:17 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.81  | 152  | 2475     | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.58 | 136  | 11737    | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.42 | 164  | 8434     | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.16 | 188  | 22358    | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12               | 21.35 | 240  | 26734    | 5.00 | ng    | 0.00     |
| 35) Perylene-d12               | 23.62 | 264  | 22171    | 5.00 | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |      |       |          |
| 4) 2-Fluorophenol              | 5.39  | 112  | 197      | 0.39 | ng    | 0.00     |
| 5) Phenol-d6                   | 6.97  | 99   | 253      | 0.45 | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.95  | 82   | 248      | 0.48 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol       | 15.93 | 330  | 128m     | 0.39 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 13.05 | 172  | 1100     | 0.42 | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.79 | 244  | 1373     | 0.38 | ng    | 0.00     |
| Target Compounds               |       |      |          |      |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.35  | 88   | 91       | 0.40 | ng    | 96       |
| 3) n-Nitrosodimethylamine      | 3.66  | 42   | 101      | 0.49 | ng    | # 86     |
| 6) bis(2-Chloroethyl)ether     | 7.23  | 93   | 212      | 0.39 | ng    | 98       |
| 9) Nitrobenzene                | 8.99  | 77   | 242      | 0.38 | ng    | 94       |
| 10) Naphthalene                | 10.63 | 128  | 1111     | 0.41 | ng    | 100      |
| 11) Hexachlorobutadiene        | 10.91 | 225  | 199m     | 0.41 | ng    |          |
| 12) 2-Methylnaphthalene        | 12.25 | 142  | 803      | 0.42 | ng    | 97       |
| 16) Acenaphthylene             | 14.13 | 152  | 1474     | 0.40 | ng    | 100      |
| 17) Acenaphthene               | 14.48 | 154  | 1040     | 0.41 | ng    | 99       |
| 18) Fluorene                   | 15.48 | 166  | 1244     | 0.42 | ng    | # 13     |
| 20) 4-Bromophenyl-phenylether  | 16.35 | 248  | 362      | 0.40 | ng    | # 99     |
| 21) Hexachlorobenzene          | 16.47 | 284  | 494      | 0.43 | ng    | # 98     |
| 22) Pentachlorophenol          | 16.83 | 266  | 149      | 0.42 | ng    | 97       |
| 23) Phenanthrene               | 17.19 | 178  | 2417     | 0.42 | ng    | 99       |
| 24) Anthracene                 | 17.29 | 178  | 2382     | 0.42 | ng    | 100      |
| 25) Fluoranthene               | 19.23 | 202  | 2779     | 0.41 | ng    | 99       |
| 27) Benzidine                  | 19.41 | 184  | 543      | 0.31 | ng    | 90       |
| 28) Pyrene                     | 19.59 | 202  | 2972     | 0.39 | ng    | 100      |
| 30) Benzo(a)anthracene         | 21.33 | 228  | 3124m    | 0.40 | ng    |          |
| 31) 3,3'-Dichlorobenzidine     | 21.27 | 252  | 724      | 0.34 | ng    | # 95     |
| 32) Chrysene                   | 21.37 | 228  | 2963m    | 0.39 | ng    |          |
| 33) Bis(2-ethylhexyl)phthalate | 21.25 | 149  | 1360     | 0.34 | ng    | # 98     |
| 34) Indeno(1,2,3-cd)pyrene     | 25.90 | 276  | 2459     | 0.37 | ng    | 100      |
| 36) Benzo(b)fluoranthene       | 22.93 | 252  | 2726     | 0.39 | ng    | 96       |
| 37) Benzo(k)fluoranthene       | 22.97 | 252  | 2667     | 0.42 | ng    | 98       |
| 38) Benzo(a)pyrene             | 23.52 | 252  | 2434     | 0.40 | ng    | 98       |
| 39) Dibenzo(a,h)anthracene     | 25.92 | 278  | 1975     | 0.40 | ng    | 96       |
| 40) Benzo(g,h,i)perylene       | 26.60 | 276  | 2096     | 0.41 | ng    | 99       |

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

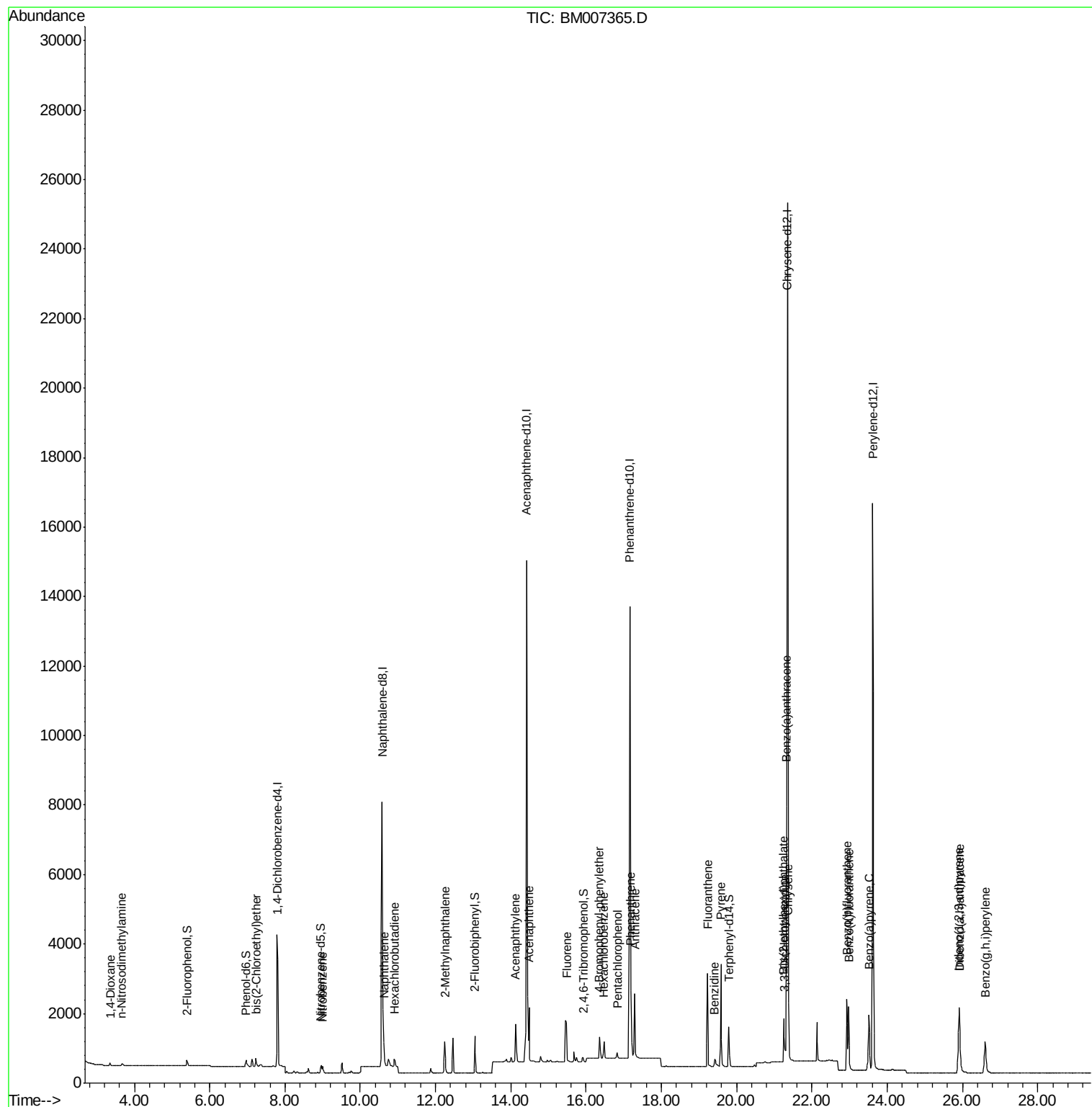
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090216\  
Data File : BM007365.D  
Acq On : 02 Sep 2016 12:41  
Operator : UM/SJ  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

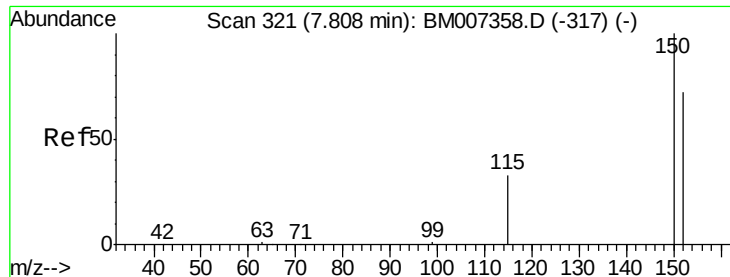
Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC0.4

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Quant Time: Sep 02 14:26:34 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM090116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 02 12:51:17 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.81 min Scan# 321

Delta R.T. 0.00 min

Lab File: BM007365.D

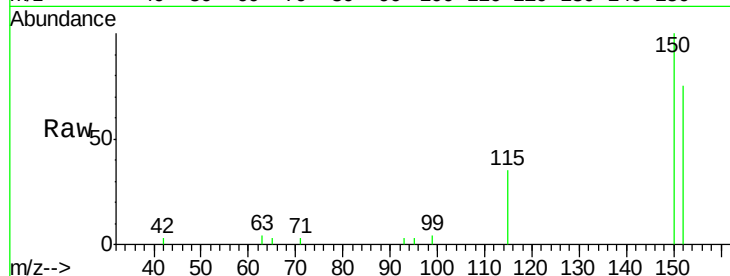
Acq: 02 Sep 2016 12:41

Instrument :

BNA\_M

ClientSampleId :

SSTDCCC0.4



Tgt Ion: 152 Resp: 2475

Ion Ratio Lower Upper

152 100

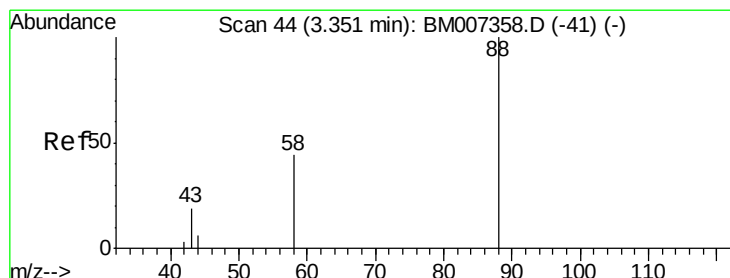
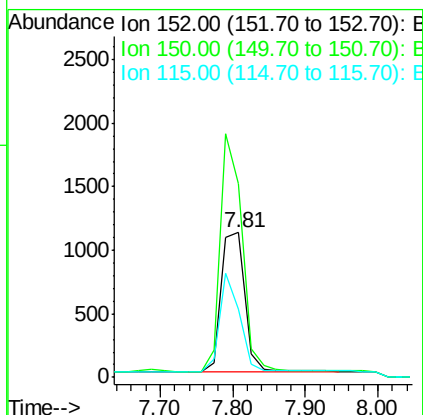
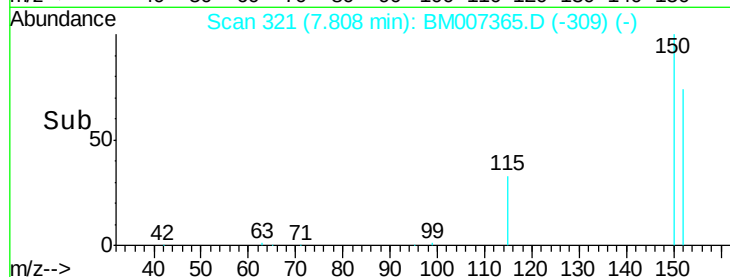
150 134.1 109.8 164.8

115 47.1 39.0 58.4

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#2

1,4-Dioxane

Concen: 0.40 ng

RT: 3.35 min Scan# 44

Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

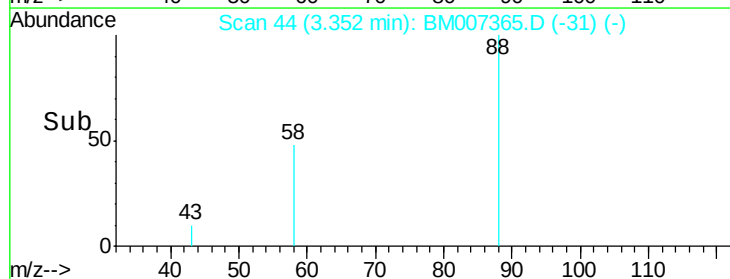
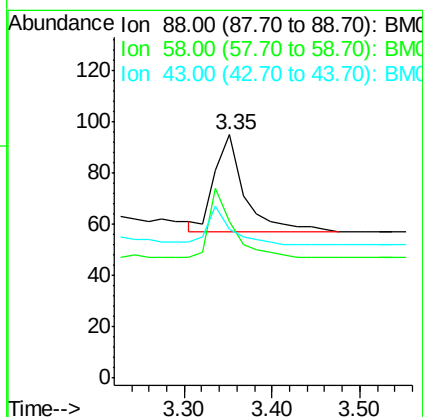
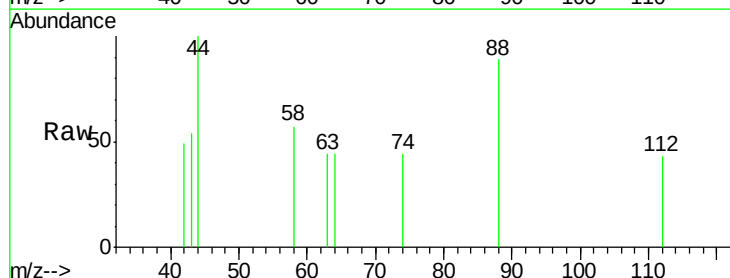
Tgt Ion: 88 Resp: 91

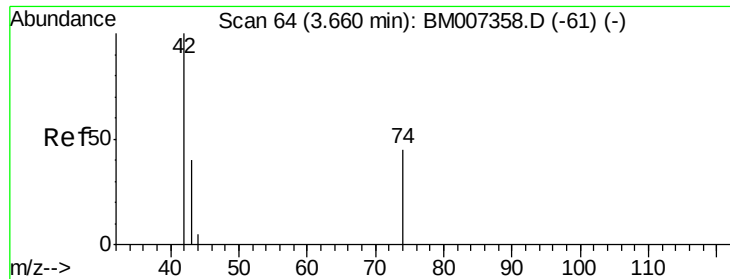
Ion Ratio Lower Upper

88 100

58 54.9 41.0 61.4

43 30.8 24.2 36.2





#3

n-Nitrosodimethylamine

Concen: 0.49 ng

RT: 3.66 min Scan# 64

Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

Instrument :

BNA\_M

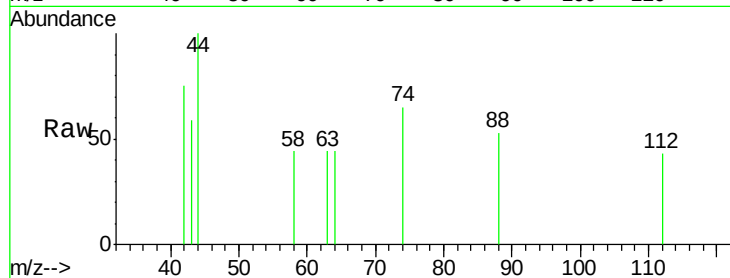
ClientSampled :

SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 101   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 93.1  | 78.9  | 118.3 |
| 44       | 0.0   | 19.1  | 28.7# |

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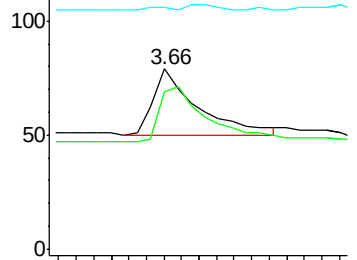
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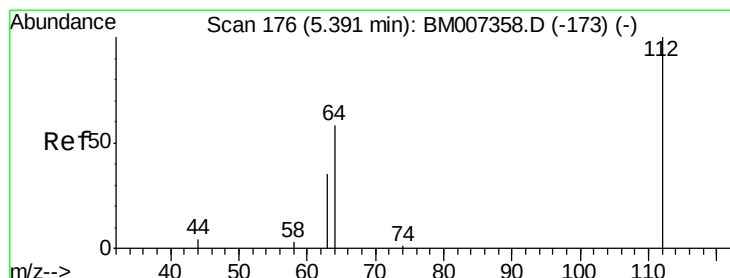
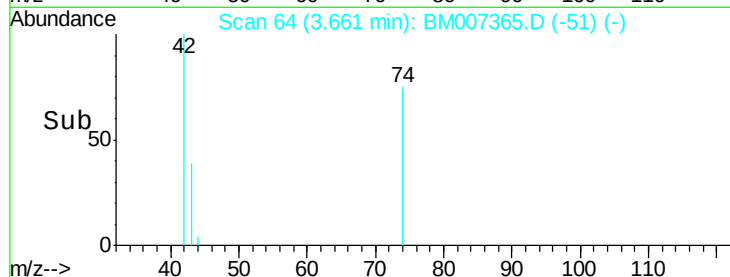
Abundance Ion 42.00 (41.70 to 42.70): BM007358.D (-61) (-)

Ion 74.00 (73.70 to 74.70): BM007358.D (-61) (-)

Ion 44.00 (43.70 to 44.70): BM007358.D (-61) (-)



Time-->



#4

2-Fluorophenol

Concen: 0.39 ng

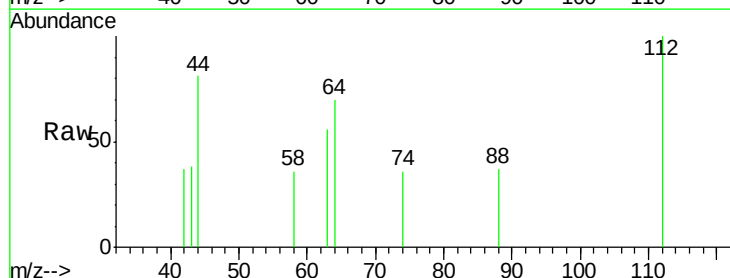
RT: 5.39 min Scan# 176

Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

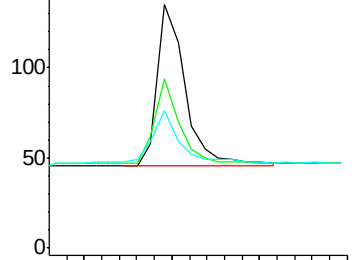
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 197   |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 46.7  | 36.9  | 55.3  |
| 63       | 33.5  | 22.6  | 34.0  |



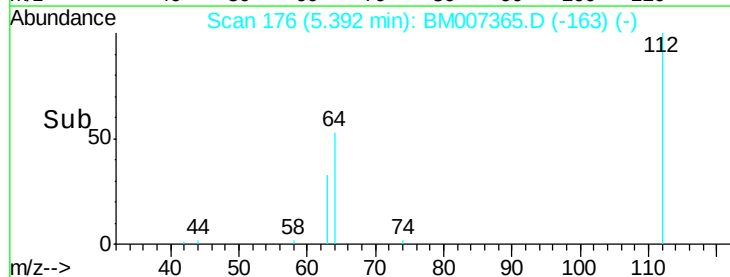
Abundance Ion 112.00 (111.70 to 112.70): BM007358.D (-173) (-)

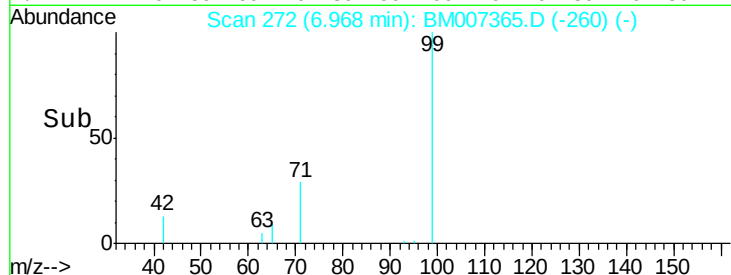
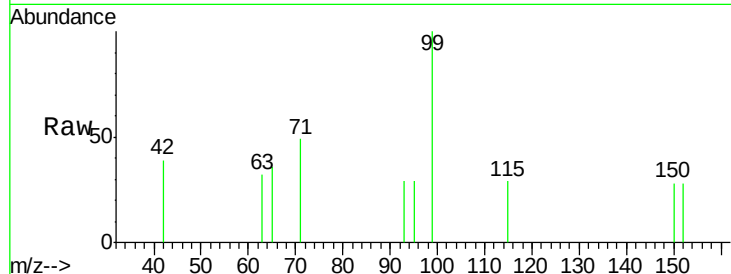
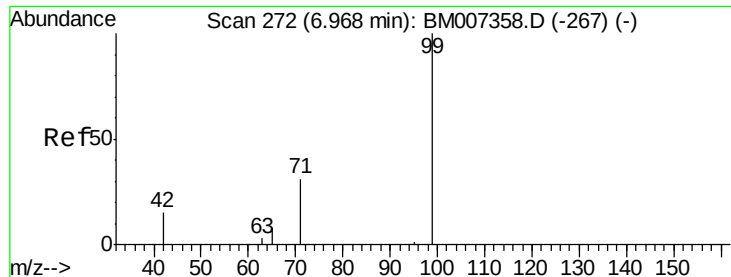
Ion 64.00 (63.70 to 64.70): BM007358.D (-173) (-)

Ion 63.00 (62.70 to 63.70): BM007358.D (-173) (-)



Time-->





#5

Phenol-d6

Concen: 0.45 ng

RT: 6.97 min Scan# 272

Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 253   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.9  | 19.8  | 29.8  |
| 71       | 35.2  | 28.1  | 42.1  |

Instrument :

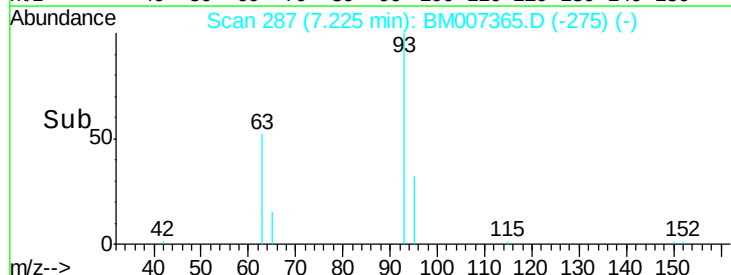
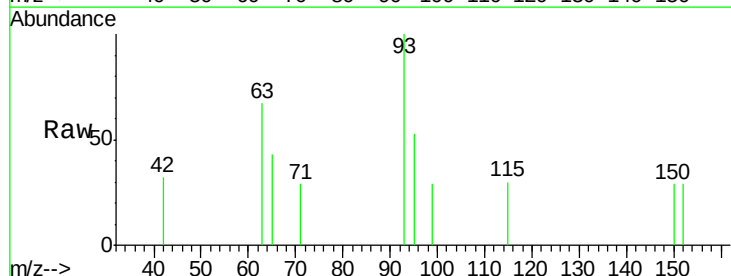
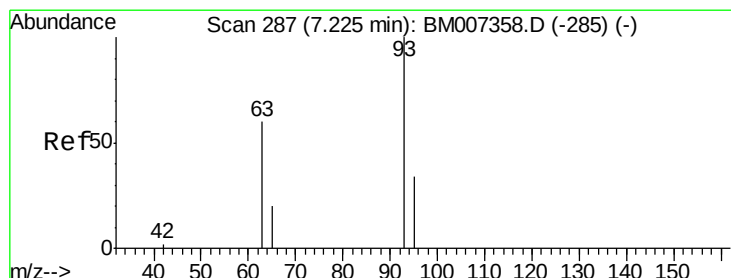
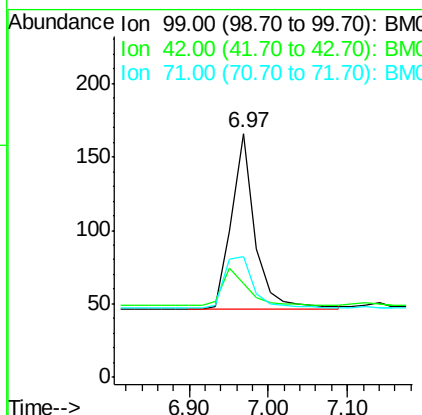
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ClientSampleId :

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#6

bis(2-Chloroethyl)ether

Concen: 0.39 ng

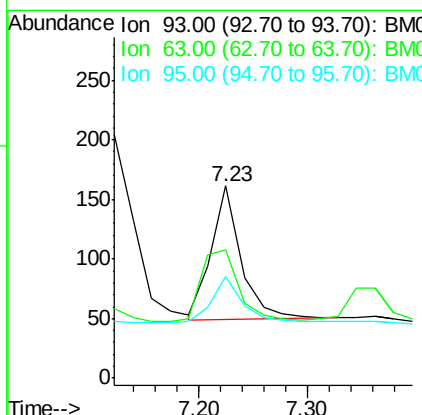
RT: 7.23 min Scan# 287

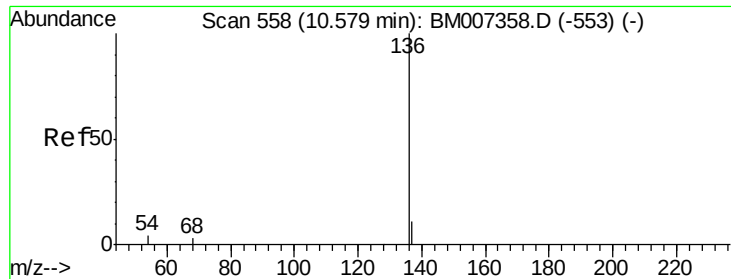
Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 212   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 68.4  | 54.3  | 81.5  |
| 95       | 35.4  | 25.7  | 38.5  |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.58 min Scan# 558

Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

Instrument :

BNA\_M

ClientSampleId :

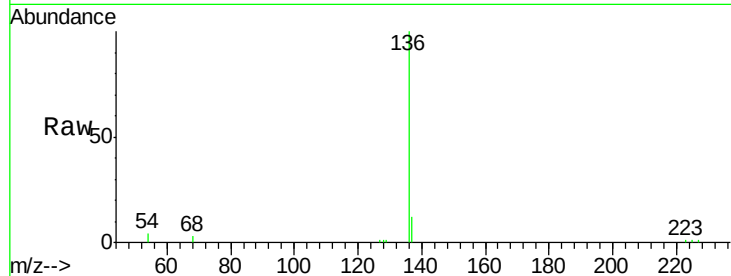
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.6  | 9.4   | 14.0  |
| 54      | 4.4   | 4.0   | 6.0   |
| 68      | 3.2   | 2.7   | 4.1   |

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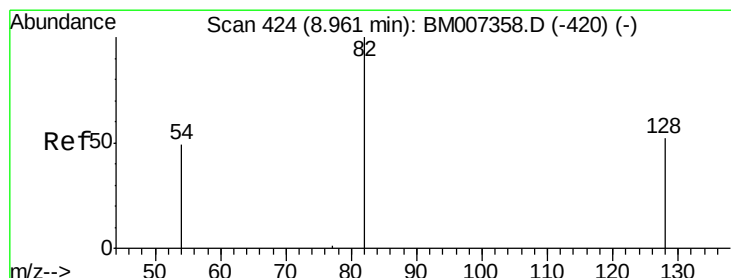
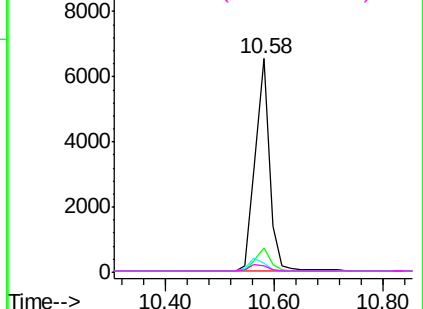
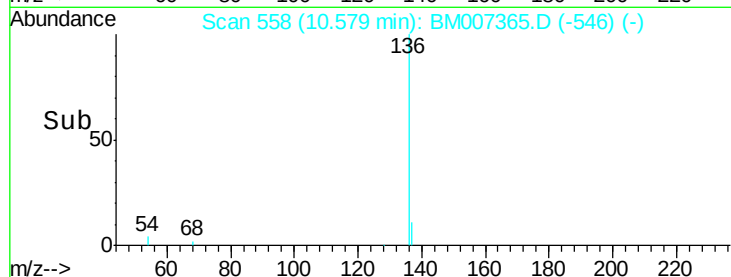


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#8

Nitrobenzene-d5

Concen: 0.48 ng

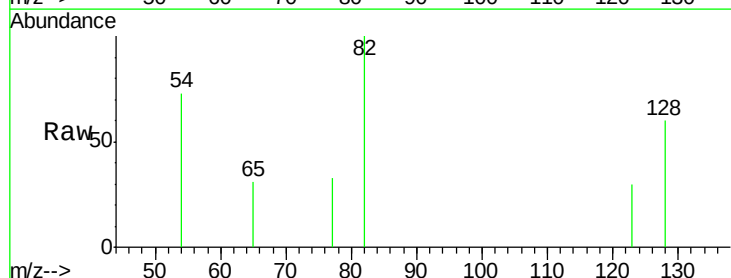
RT: 8.95 min Scan# 423

Delta R.T. -0.01 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

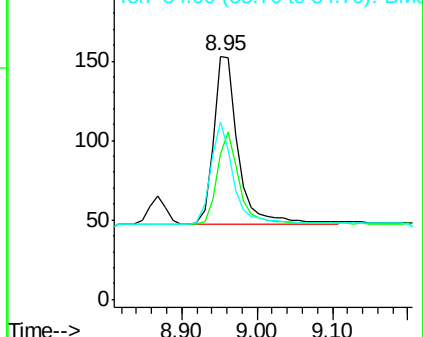
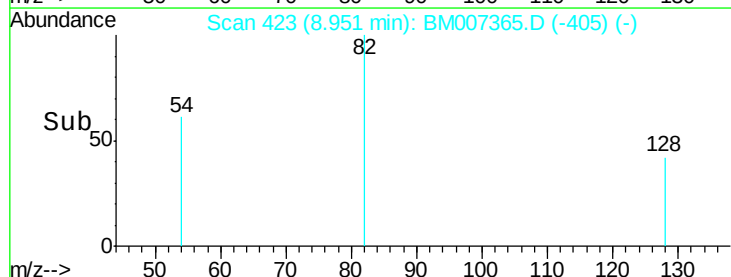
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 60.1  | 54.9  | 82.3  |
| 54      | 73.2  | 53.8  | 80.6  |

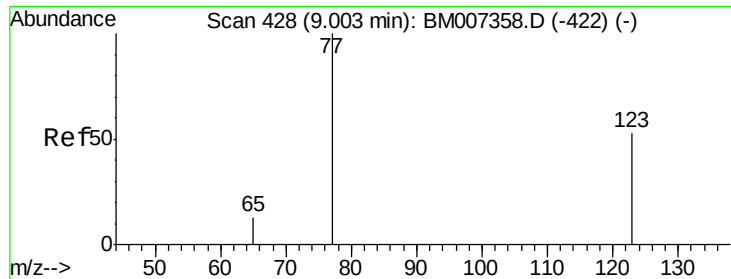


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 0.38 ng

RT: 8.99 min Scan# 427

Delta R.T. -0.01 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

Instrument :

BNA\_M

ClientSampleId :

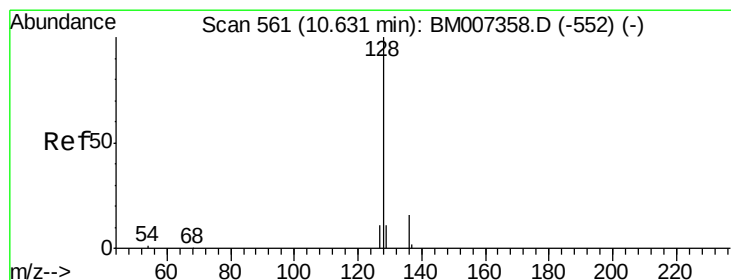
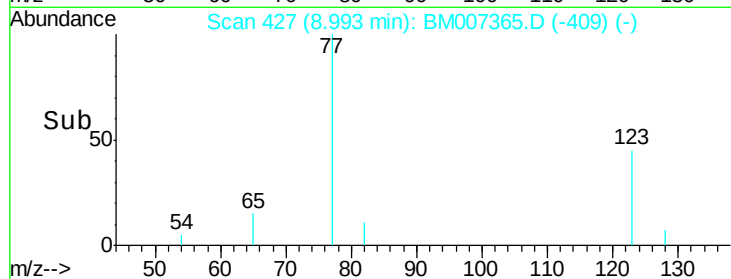
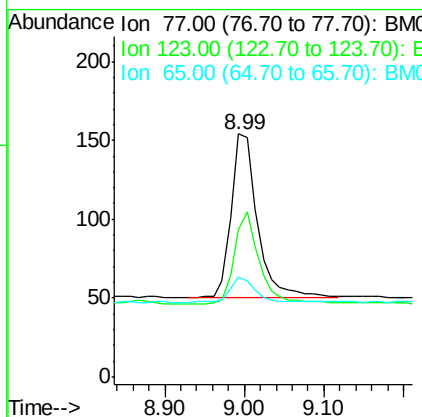
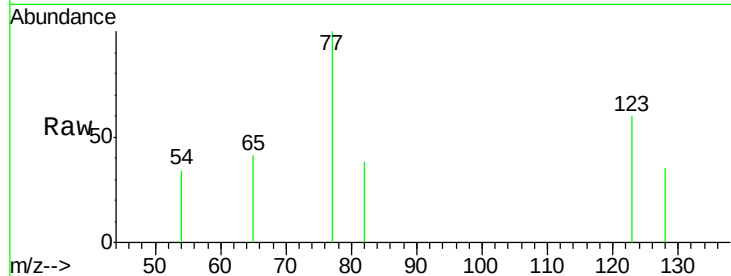
SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 242   |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 54.1  | 40.0  | 60.0  |
| 65       | 15.3  | 10.6  | 15.8  |

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#10

Naphthalene

Concen: 0.41 ng

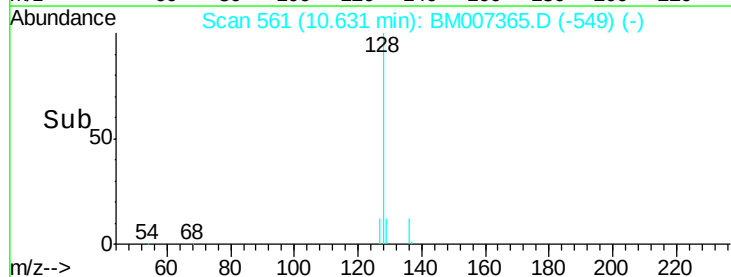
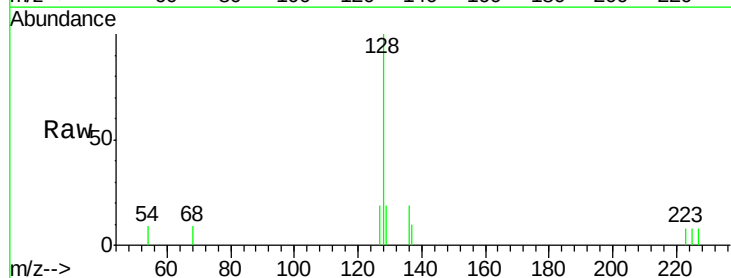
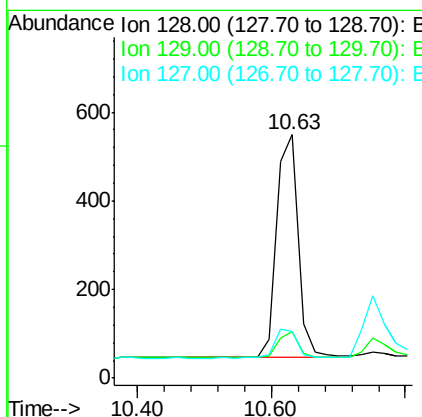
RT: 10.63 min Scan# 561

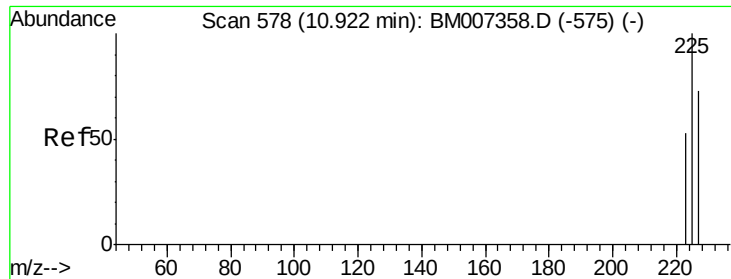
Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1111  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 19.3  | 15.5  | 23.3  |
| 127      | 19.1  | 15.5  | 23.3  |





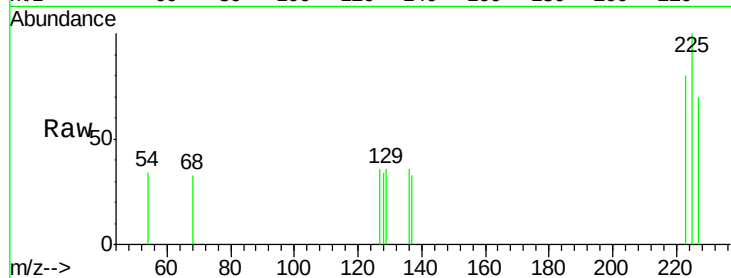
#11  
Hexachlorobutadiene  
Concen: 0.41 ng m  
RT: 10.91 min Scan# 577  
Delta R.T. -0.02 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC0.4

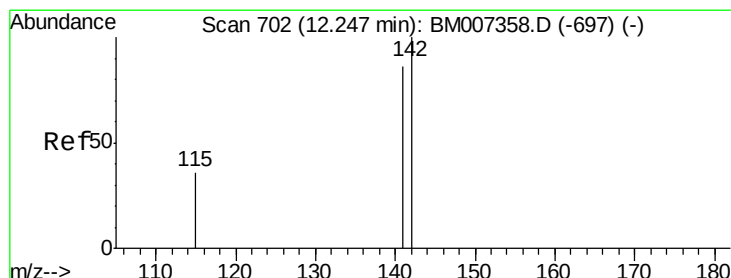
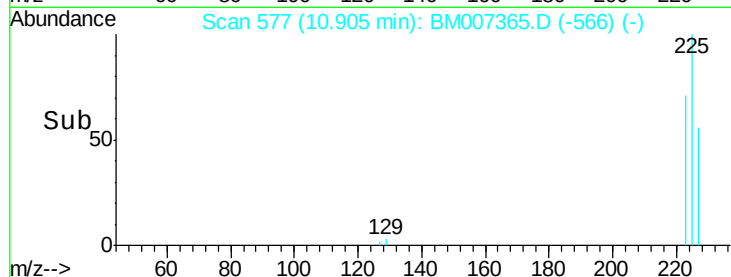
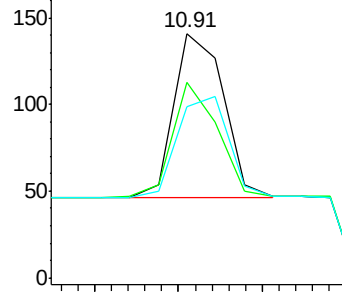
Tgt Ion: 225 Resp: 199  
Ion Ratio Lower Upper  
225 100  
223 245.7 197.7 296.5  
227 221.1 196.2 294.4

Manual Integrations  
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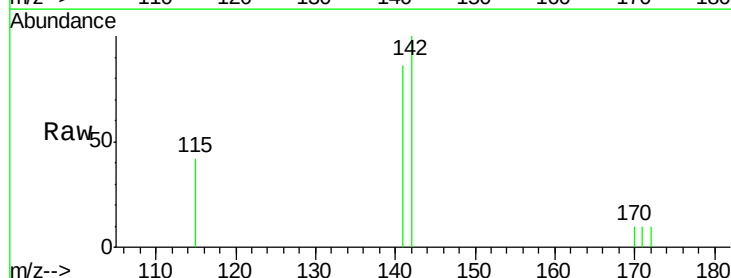


Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E

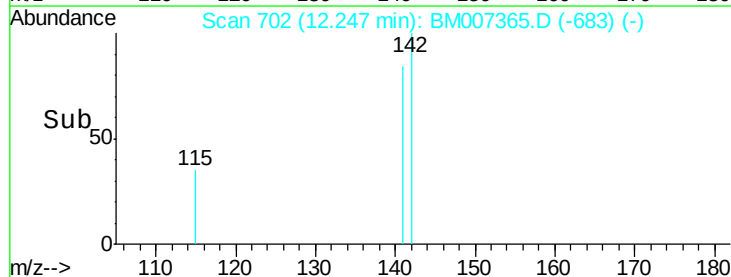
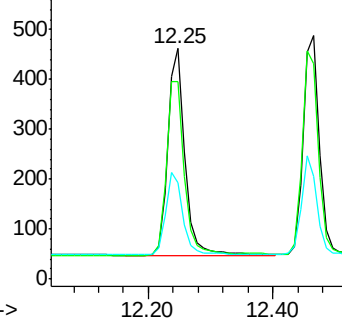


#12  
2-Methylnaphthalene  
Concen: 0.42 ng  
RT: 12.25 min Scan# 702  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

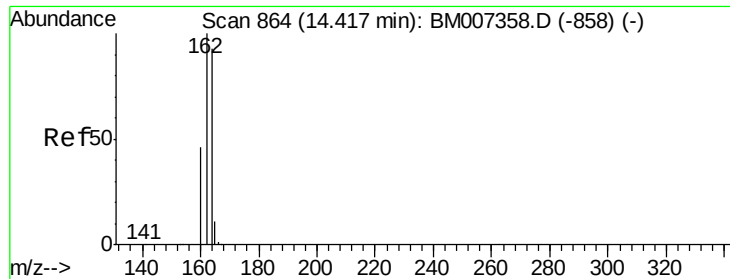
Tgt Ion: 142 Resp: 803  
Ion Ratio Lower Upper  
142 100  
141 85.7 70.2 105.4  
115 41.8 35.7 53.5



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E







#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 864

Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

Instrument :

BNA\_M

ClientSampleId :

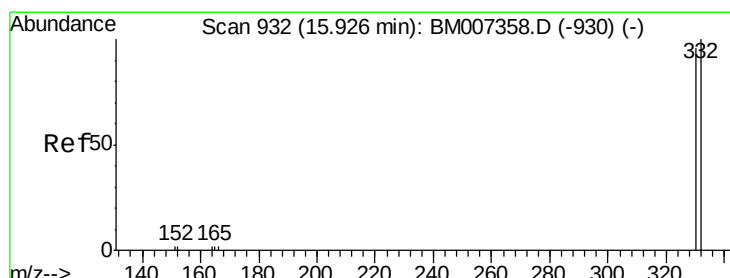
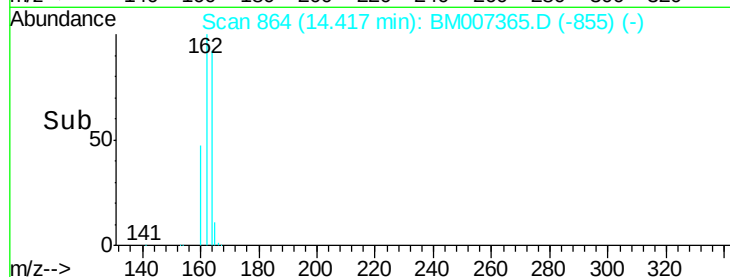
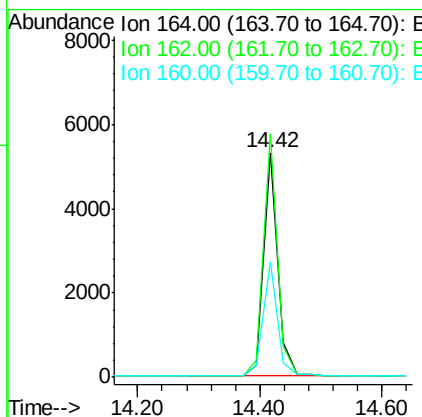
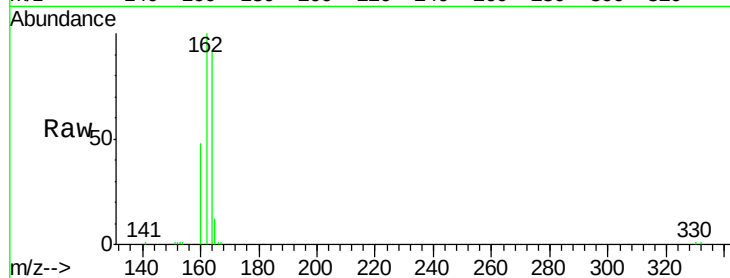
SSTDCCC0.4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 8434  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 108.3 | 86.2  | 129.4 |
| 160       | 51.7  | 40.5  | 60.7  |

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#14

2,4,6-Tribromophenol

Concen: 0.39 ng m

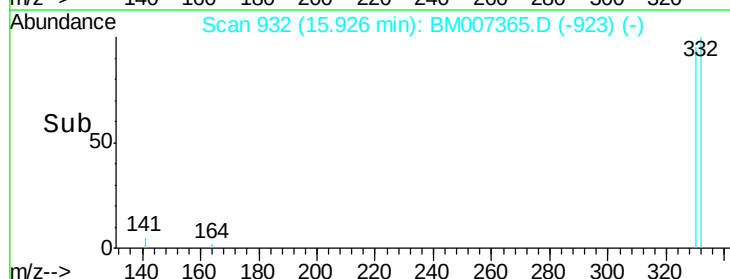
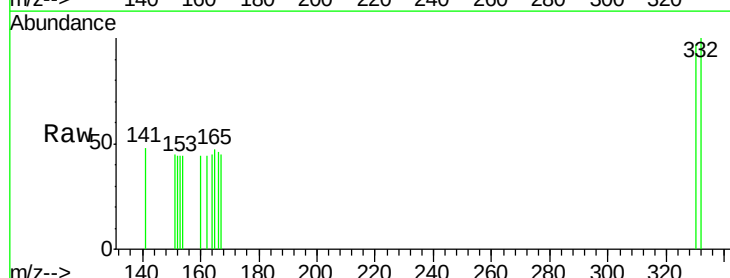
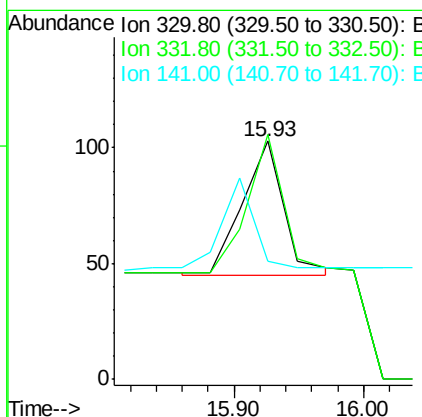
RT: 15.93 min Scan# 932

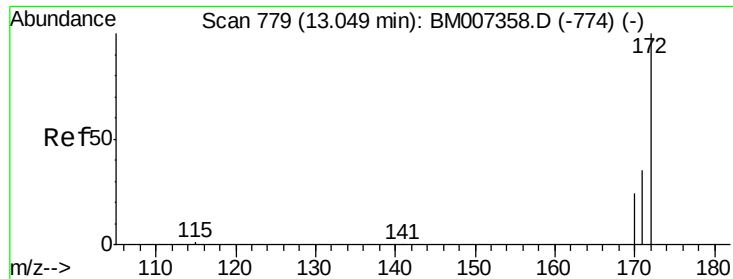
Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 128    |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 330.5 | 79.2  | 118.8# |
| 141       | 0.0   | 0.0   | 0.0    |





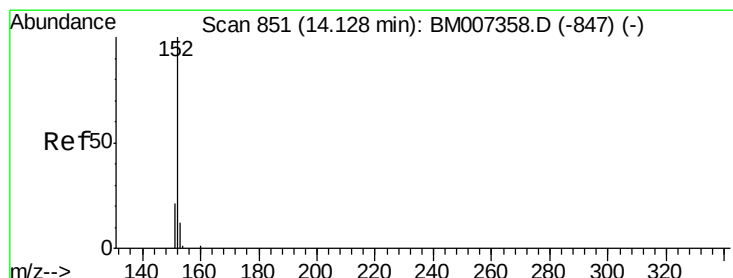
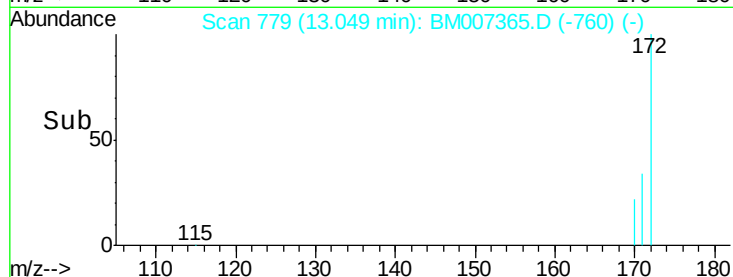
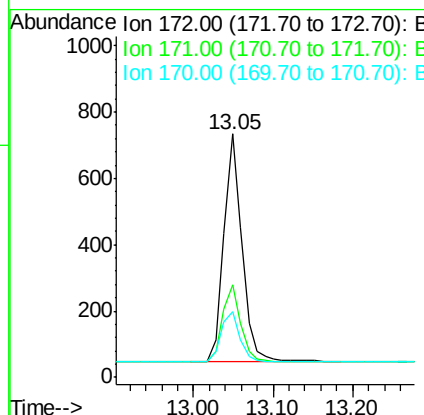
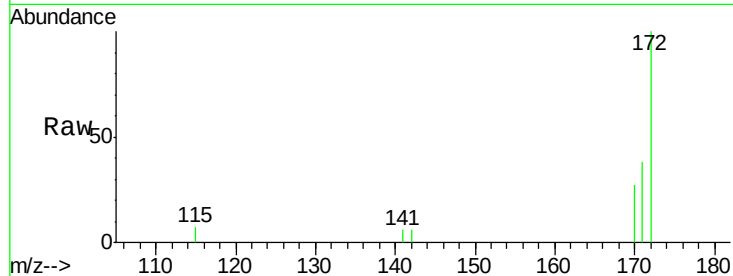
#15  
2-Fluorobiphenyl  
Concen: 0.42 ng  
RT: 13.05 min Scan# 779  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.9  | 32.2  | 48.2  |
| 170     | 26.8  | 23.5  | 35.3  |

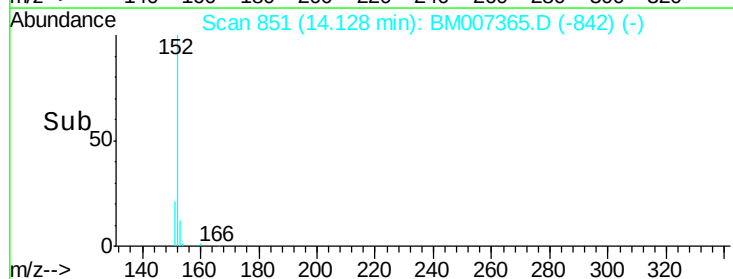
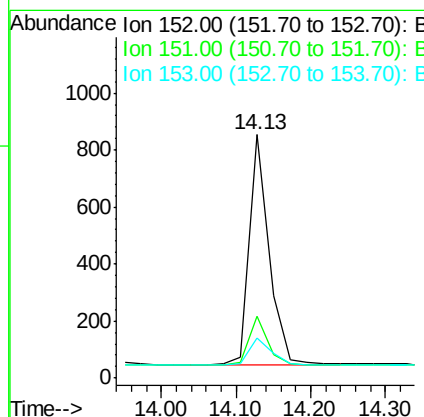
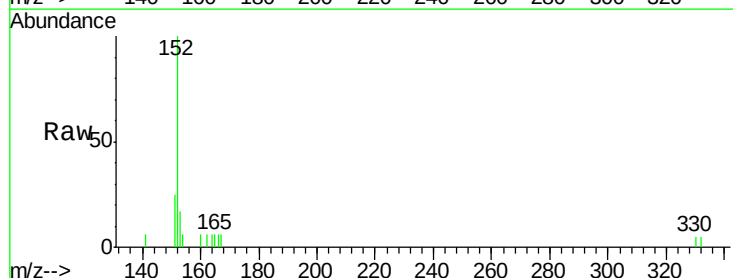
Manual Integrations  
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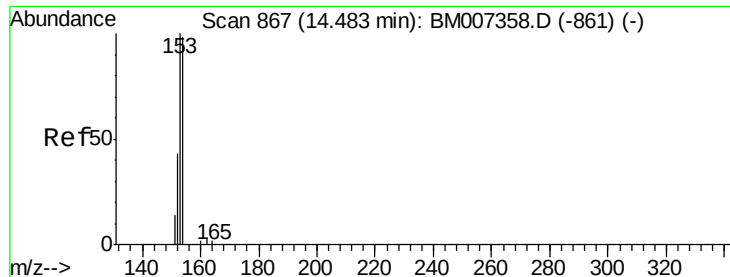
UMANGI  
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#16  
Acenaphthylene  
Concen: 0.40 ng  
RT: 14.13 min Scan# 851  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 15.7  | 23.5  |
| 153     | 12.5  | 10.1  | 15.1  |





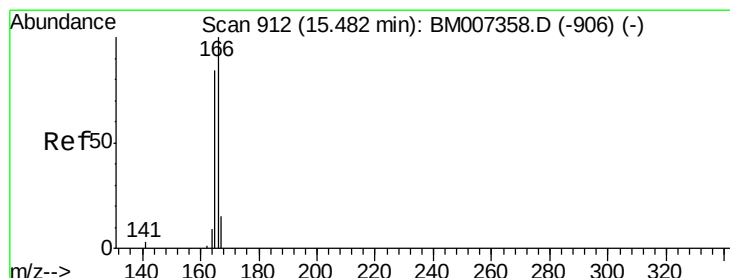
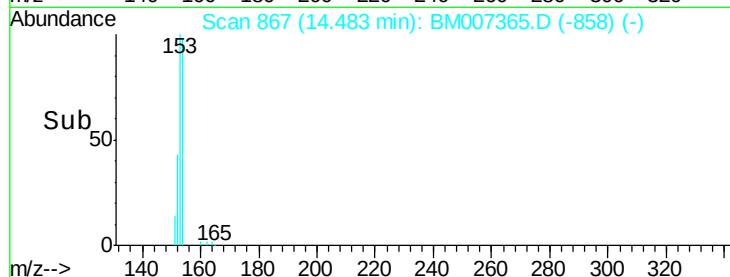
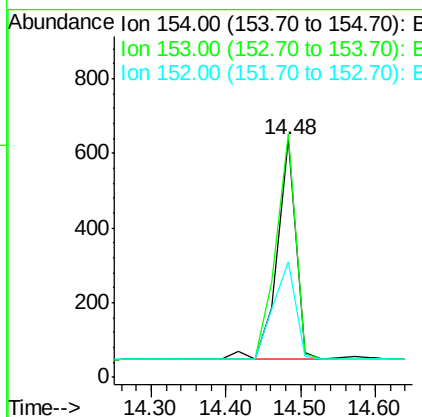
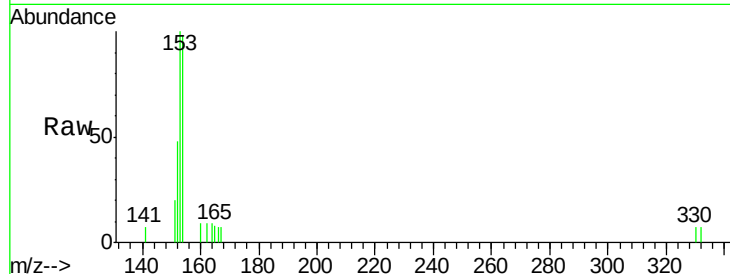
#17  
Acenaphthene  
Concen: 0.41 ng  
RT: 14.48 min Scan# 867  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 106.9 | 85.1  | 127.7 |
| 152     | 52.1  | 40.9  | 61.3  |

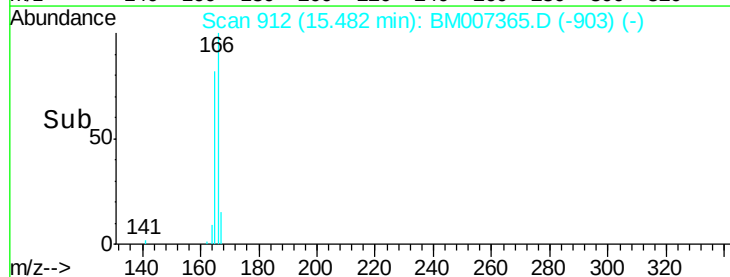
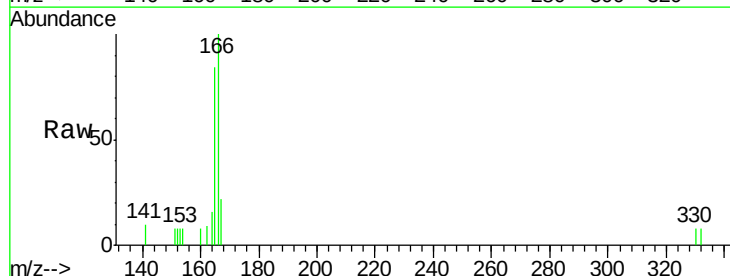
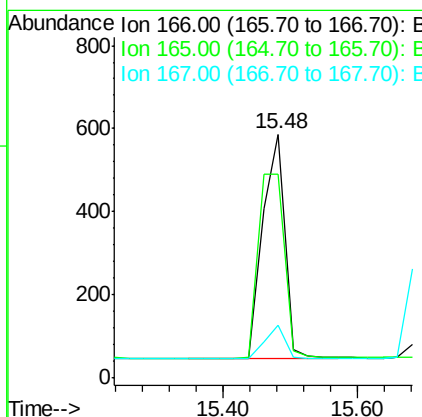
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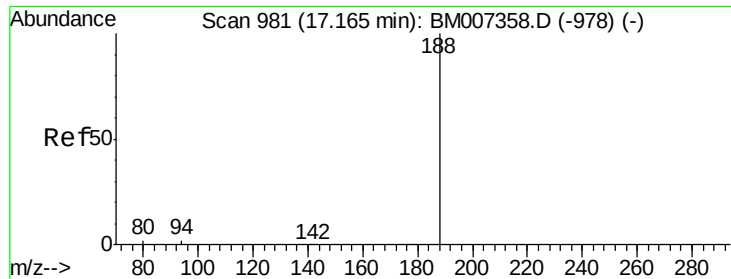
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#18  
Fluorene  
Concen: 0.42 ng  
RT: 15.48 min Scan# 912  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 166     | 100   |       |        |
| 165     | 0.0   | 78.8  | 118.2# |
| 167     | 13.3  | 10.8  | 16.2   |





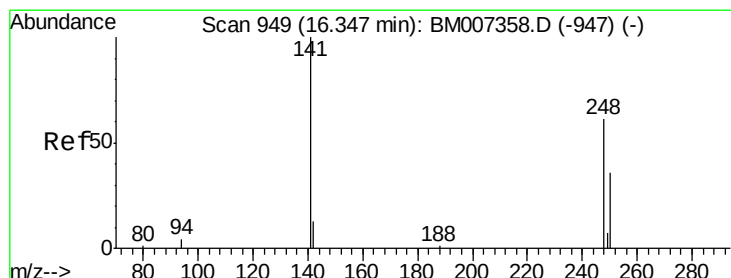
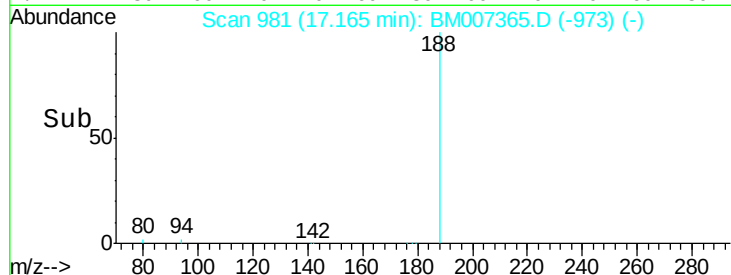
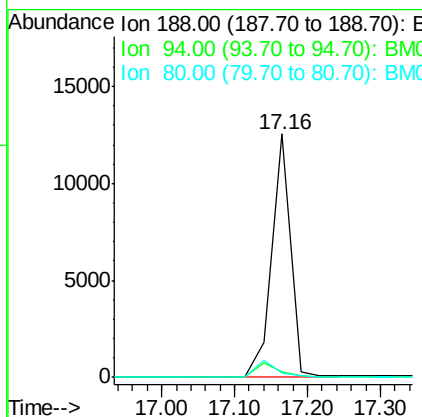
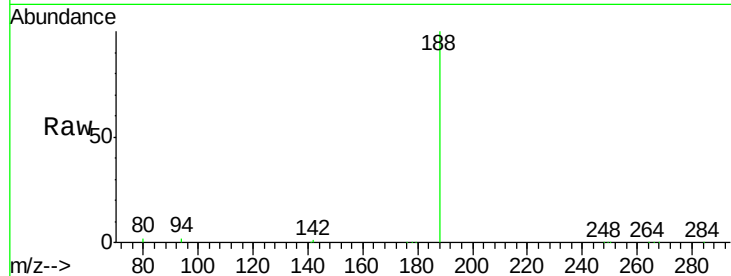
#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.16 min Scan# 981  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC0.4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 22358 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 2.3   | 2.0   | 3.0   |
| 80        | 1.9   | 1.6   | 2.4   |

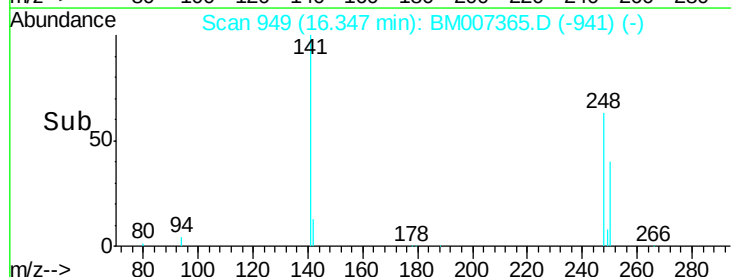
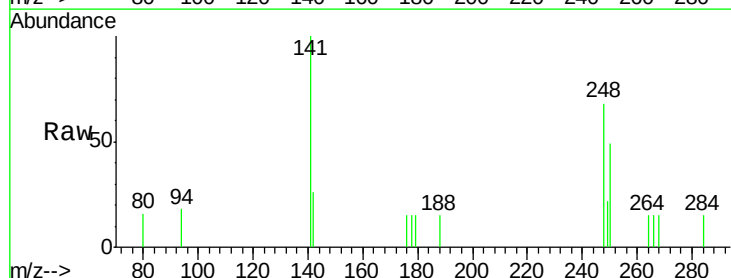
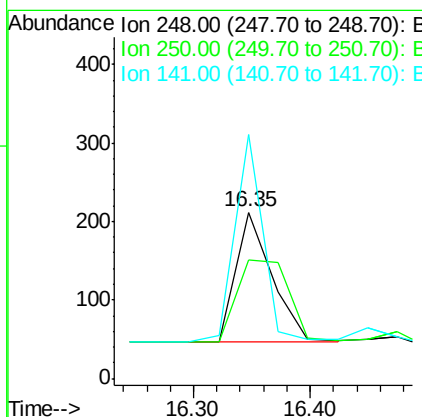
Manual Integrations  
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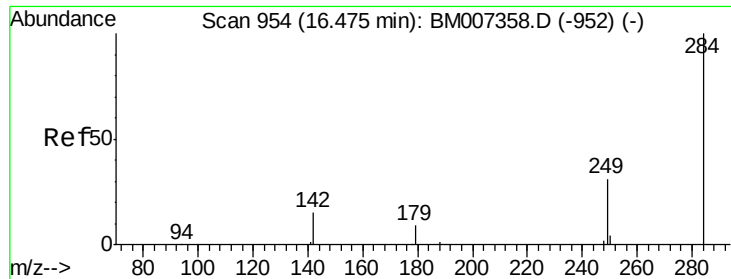
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#20  
4-Bromophenyl-phenylether  
Concen: 0.40 ng  
RT: 16.35 min Scan# 949  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 362   |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 91.2  | 0.0   | 0.0#  |
| 141       | 122.1 | 98.2  | 147.4 |





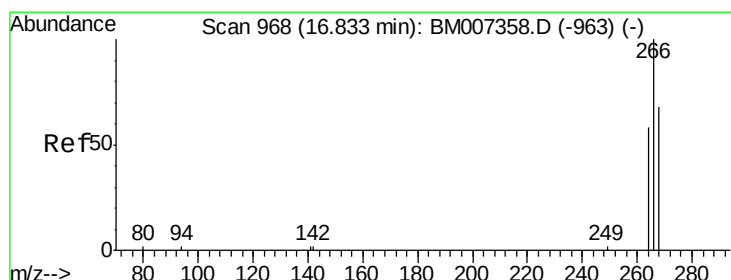
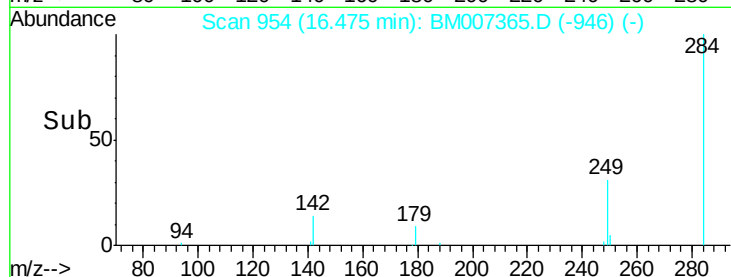
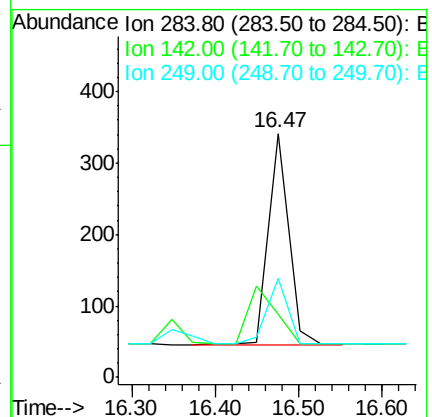
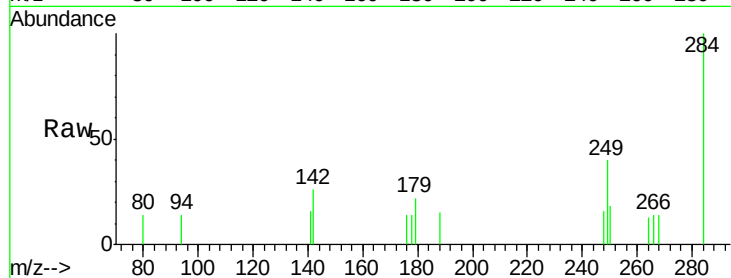
#21  
Hexachlorobenzene  
Concen: 0.43 ng  
RT: 16.47 min Scan# 954  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 0.0   | 0.0   | 0.0   |
| 249     | 32.0  | 26.6  | 40.0  |

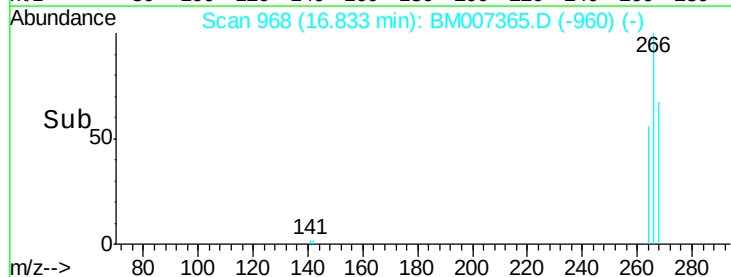
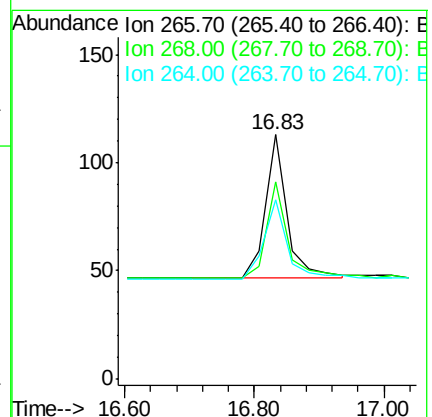
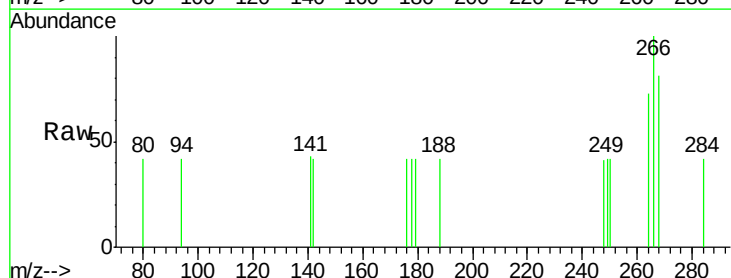
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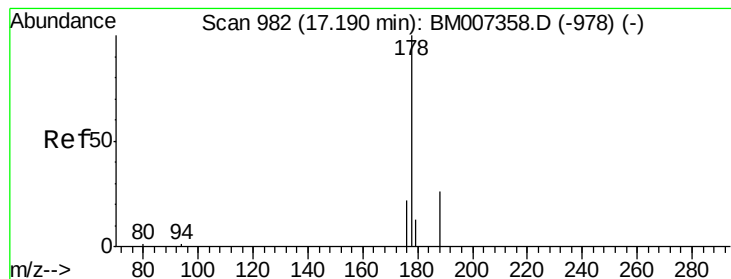
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#22  
Pentachlorophenol  
Concen: 0.42 ng  
RT: 16.83 min Scan# 968  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 80.5  | 66.4  | 99.6  |
| 264     | 73.5  | 61.6  | 92.4  |





#23

Phenanthrene

Concen: 0.42 ng

RT: 17.19 min Scan# 982

Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

Instrument :

BNA\_M

ClientSampleId :

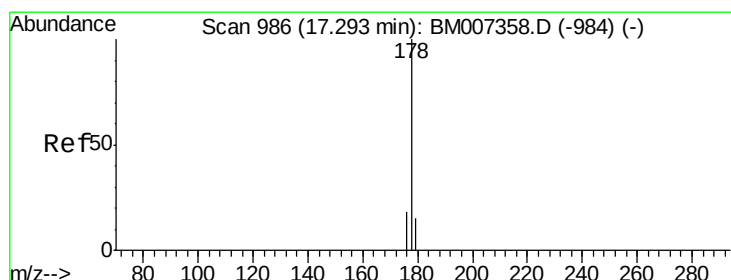
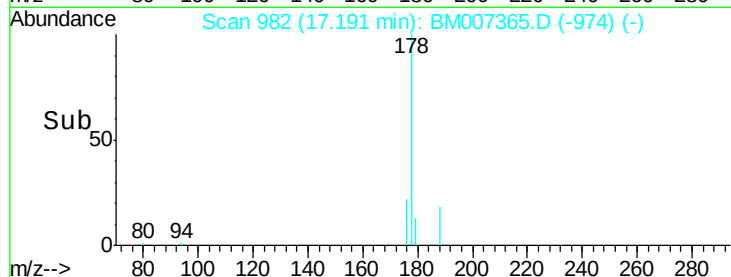
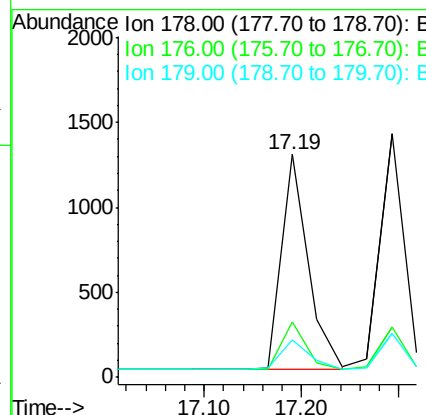
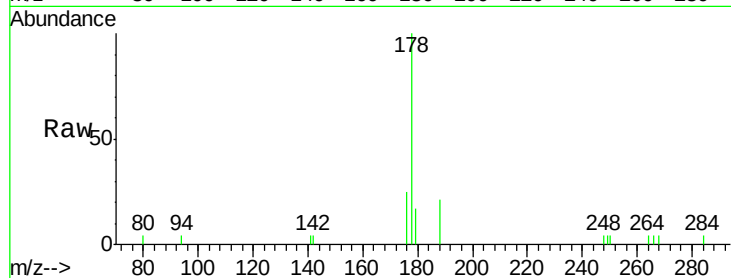
SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 2417  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 20.6  | 16.6  | 24.8  |
| 179      | 15.2  | 12.5  | 18.7  |

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#24

Anthracene

Concen: 0.42 ng

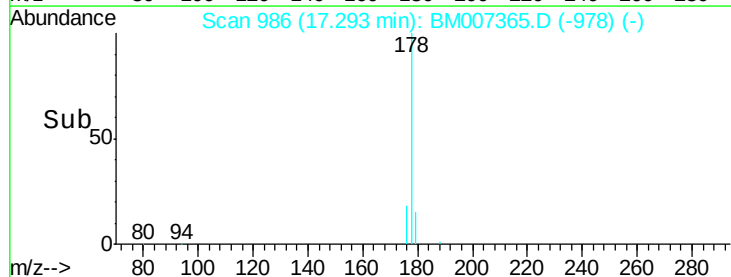
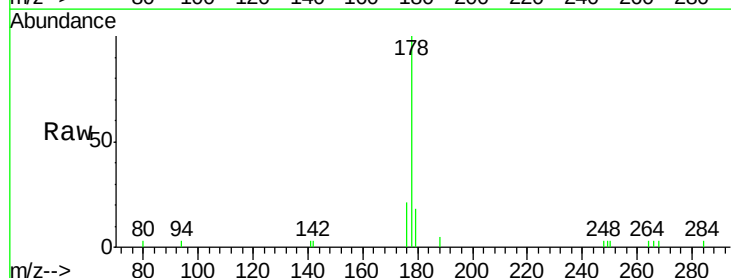
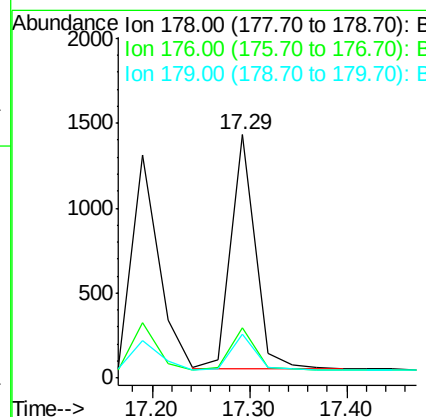
RT: 17.29 min Scan# 986

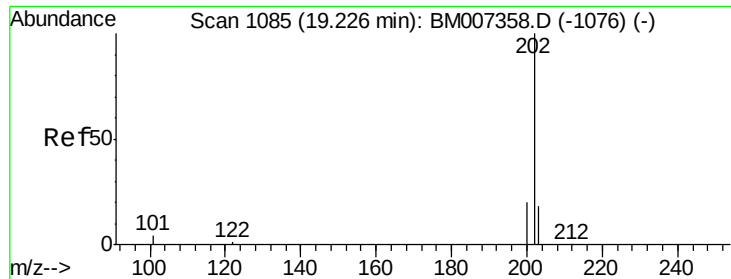
Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 2382  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 18.3  | 14.8  | 22.2  |
| 179      | 15.1  | 12.2  | 18.2  |





#25

Fluoranthene

Concen: 0.41 ng

RT: 19.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

Instrument :

BNA\_M

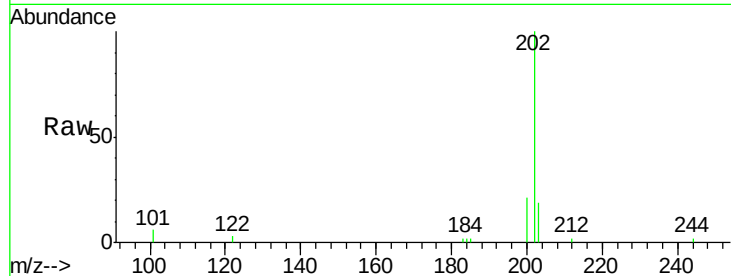
ClientSampleId :

SSTDCCC0.4

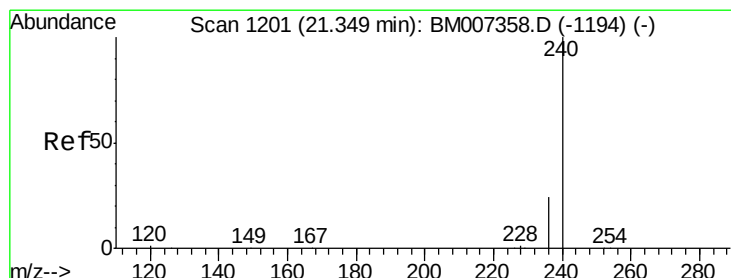
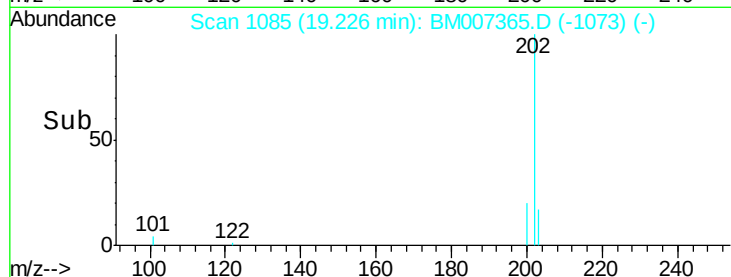
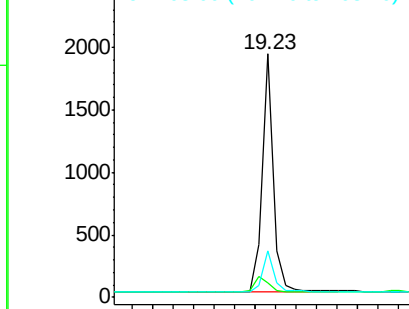
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 2779 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 7.8   | 6.5   | 9.7  |
| 203       | 17.5  | 14.2  | 21.2 |

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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

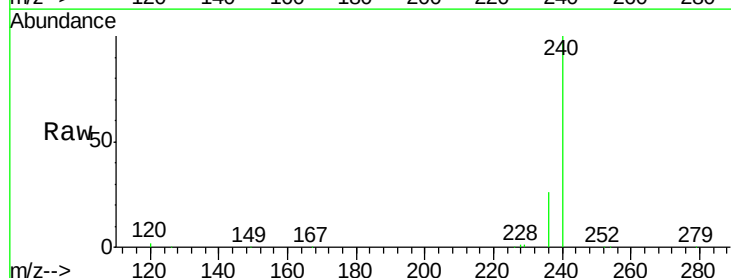
RT: 21.35 min Scan# 1201

Delta R.T. 0.00 min

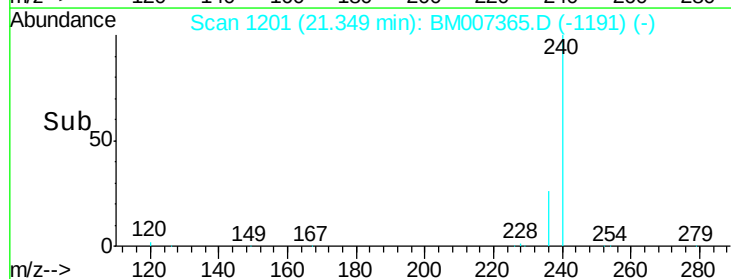
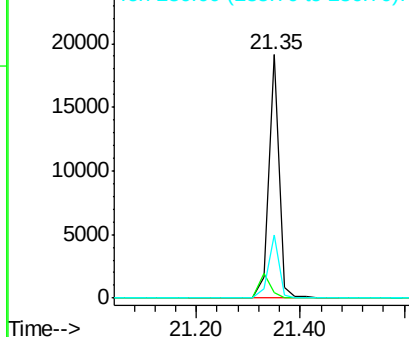
Lab File: BM007365.D

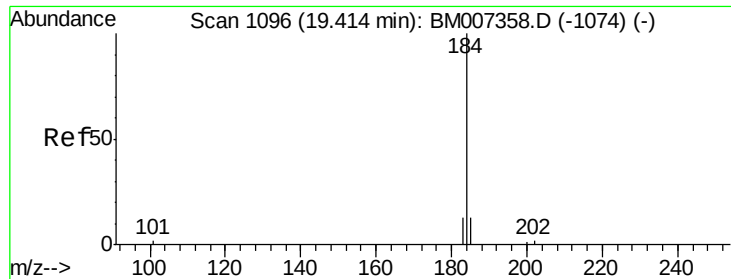
Acq: 02 Sep 2016 12:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 26734 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 2.3   | 1.3   | 1.9#  |
| 236       | 26.0  | 19.1  | 28.7  |



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





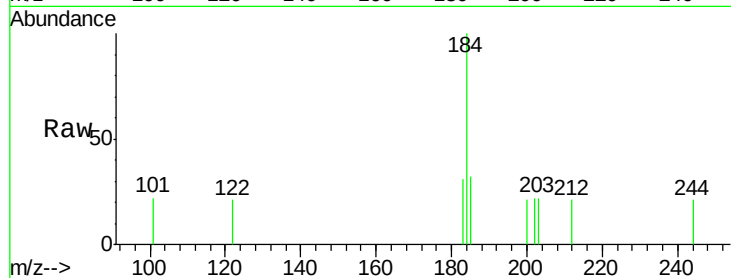
#27  
Benzidine  
Concen: 0.31 ng  
RT: 19.41 min Scan# 1096  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC0.4

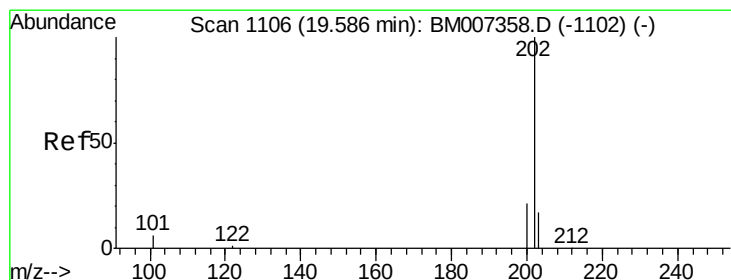
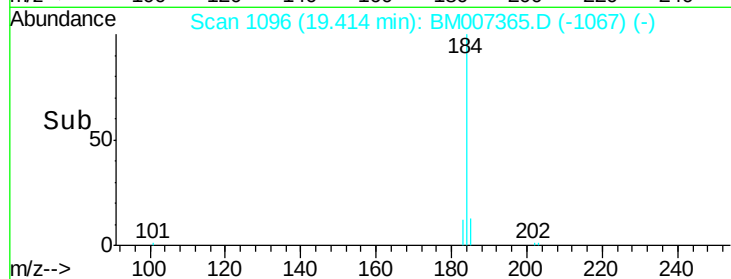
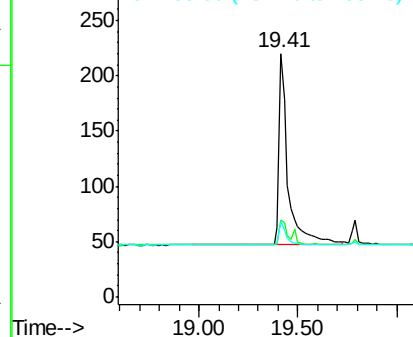
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 31.8  | 29.8  | 44.8  |
| 183     | 30.9  | 29.8  | 44.8  |

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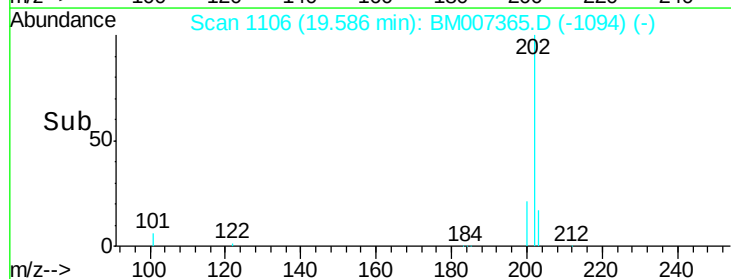
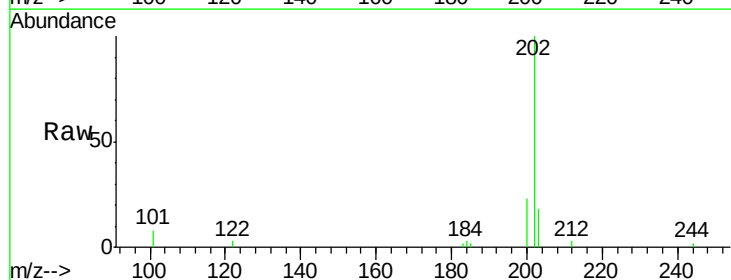
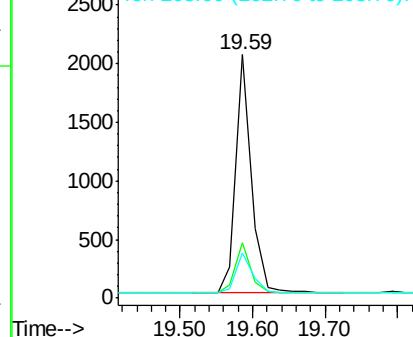
Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E



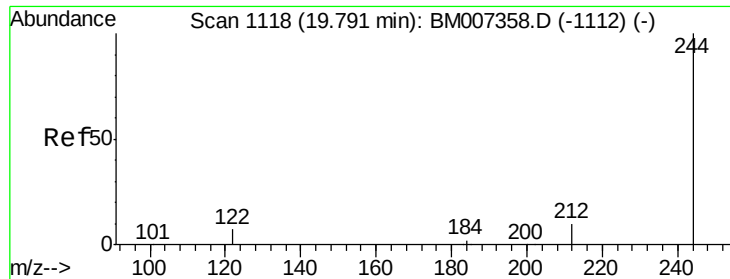
#28  
Pyrene  
Concen: 0.39 ng  
RT: 19.59 min Scan# 1106  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 16.6  | 25.0  |
| 203     | 17.5  | 13.8  | 20.8  |

Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.38 ng

RT: 19.79 min Scan# 1118

Delta R.T. 0.00 min

Lab File: BM007365.D

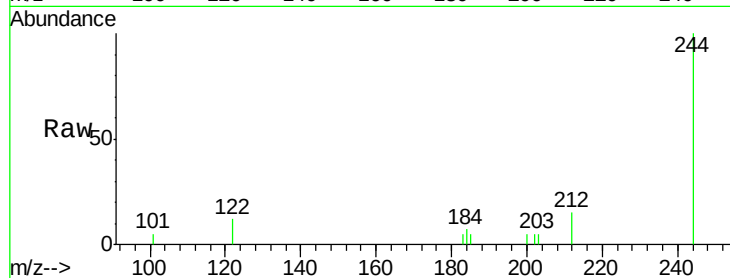
Acq: 02 Sep 2016 12:41

Instrument :

BNA\_M

ClientSampleId :

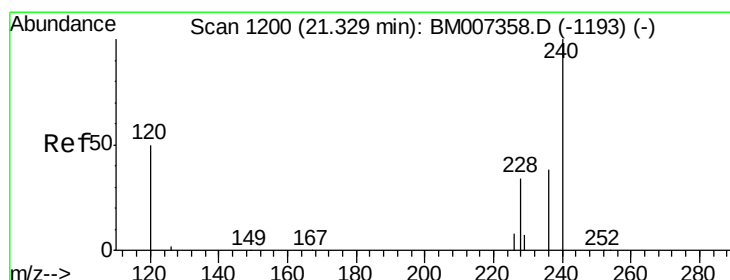
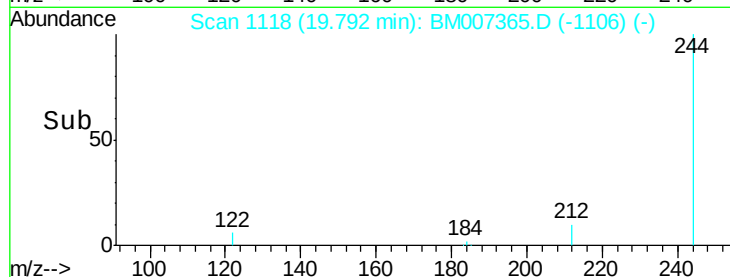
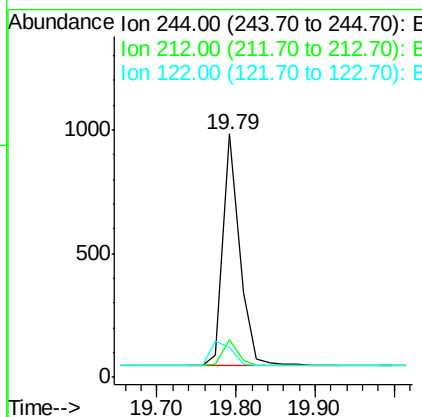
SSTDCCC0.4



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 244   | Resp: | 1373 |
| Ion Ratio | Lower | Upper |      |
| 244       | 100   |       |      |
| 212       | 15.1  | 12.2  | 18.4 |
| 122       | 12.2  | 9.6   | 14.4 |

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#30

Benzo(a)anthracene

Concen: 0.40 ng m

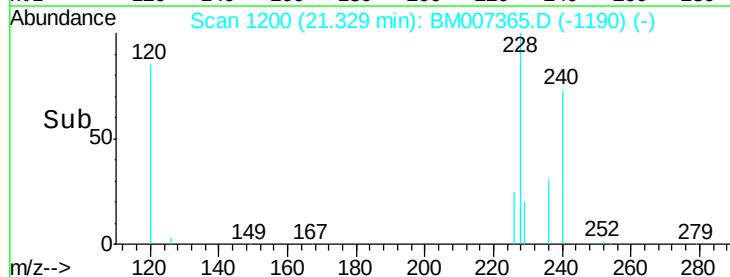
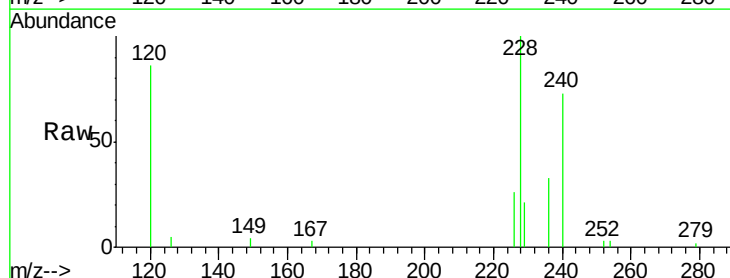
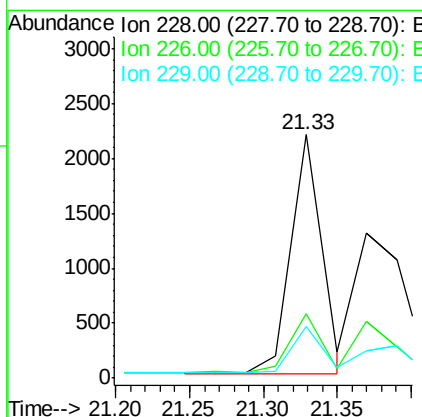
RT: 21.33 min Scan# 1200

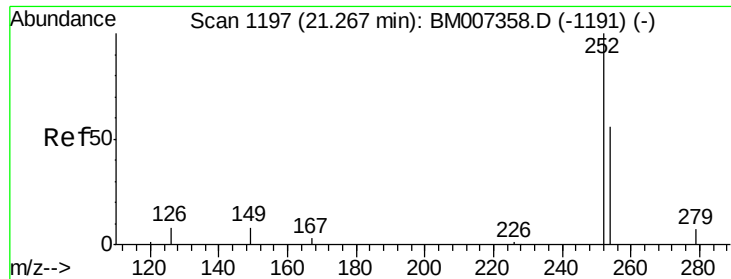
Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 3124 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 26.4  | 20.4  | 30.6 |
| 229       | 21.4  | 19.0  | 28.4 |





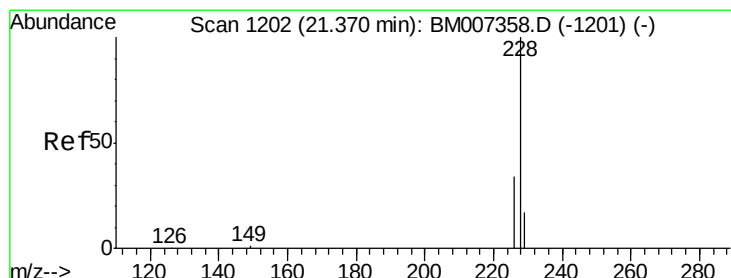
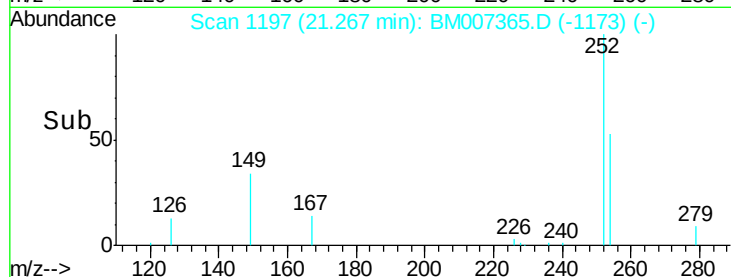
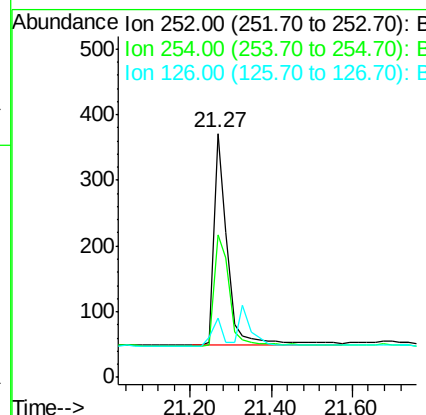
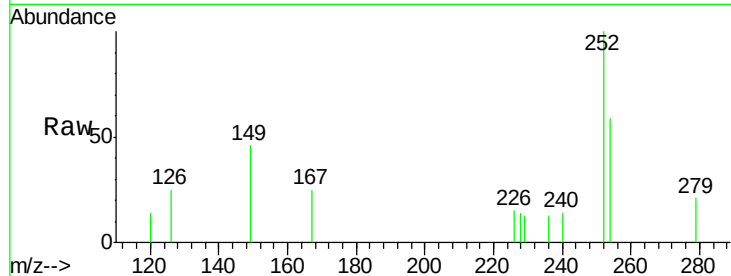
#31  
 3,3'-Dichlorobenzidine  
 Concen: 0.34 ng  
 RT: 21.27 min Scan# 1197  
 Delta R.T. 0.00 min  
 Lab File: BM007365.D  
 Acq: 02 Sep 2016 12:41

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 58.8  | 49.4  | 74.0  |
| 126     | 24.5  | 16.3  | 24.5  |

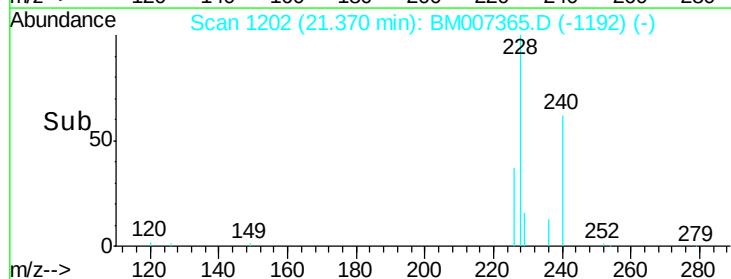
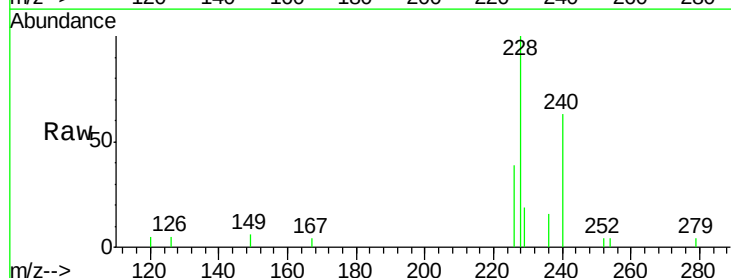
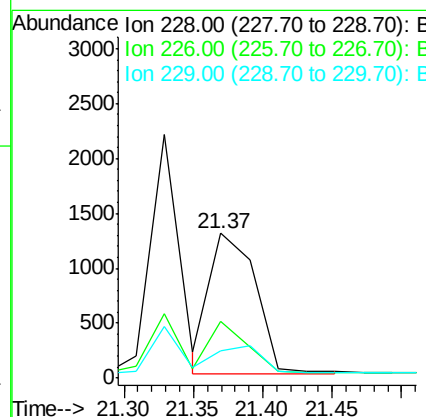
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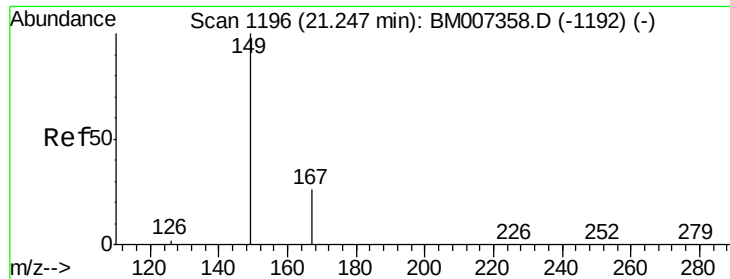
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#32  
 Chrysene  
 Concen: 0.39 ng m  
 RT: 21.37 min Scan# 1202  
 Delta R.T. 0.00 min  
 Lab File: BM007365.D  
 Acq: 02 Sep 2016 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 38.9  | 28.3  | 42.5  |
| 229     | 18.7  | 15.7  | 23.5  |





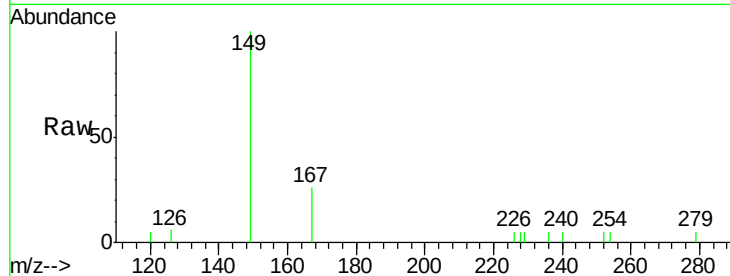
#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.34 ng  
 RT: 21.25 min Scan# 1196  
 Delta R.T. 0.00 min  
 Lab File: BM007365.D  
 Acq: 02 Sep 2016 12:41

Instrument :  
 BNA\_M  
 ClientSampled :  
 SSTDCCC0.4

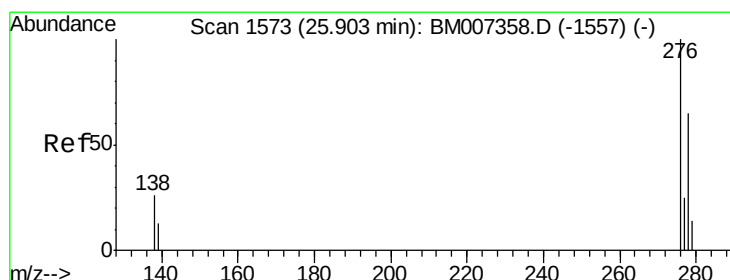
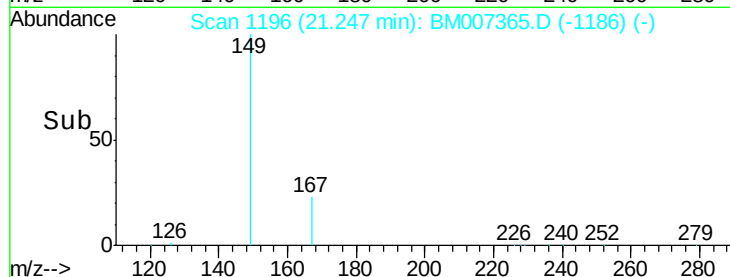
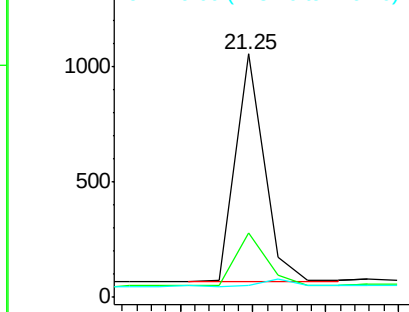
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 25.4  | 21.0  | 31.4  |
| 279     | 0.0   | 0.0   | 0.0   |

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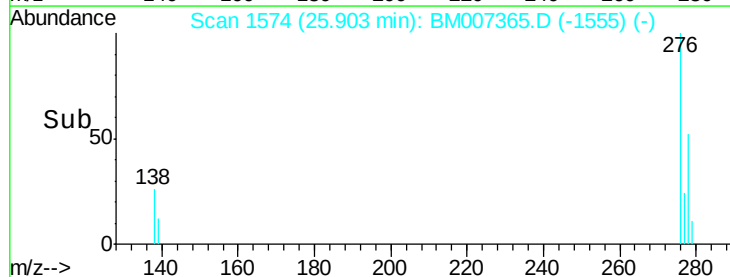
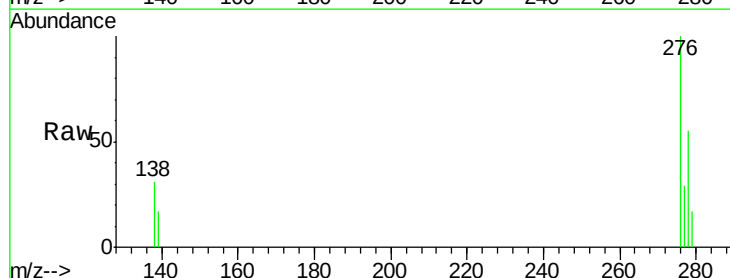
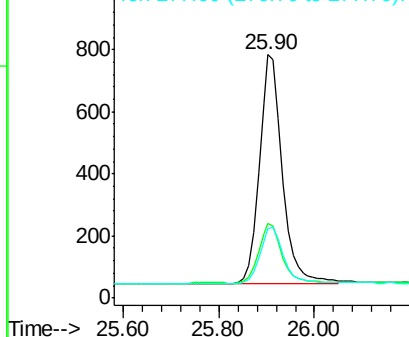
Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

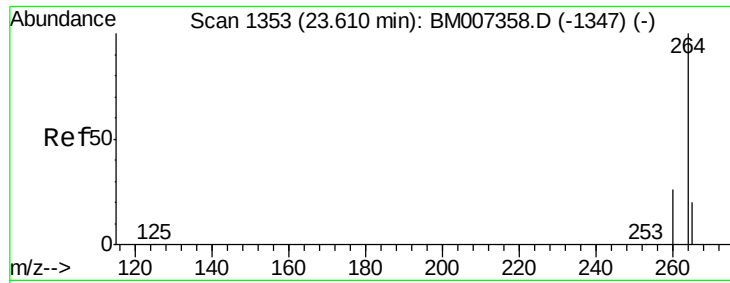


#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.37 ng  
 RT: 25.90 min Scan# 1574  
 Delta R.T. 0.00 min  
 Lab File: BM007365.D  
 Acq: 02 Sep 2016 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.6  | 21.0  | 31.4  |
| 277     | 24.6  | 19.7  | 29.5  |

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





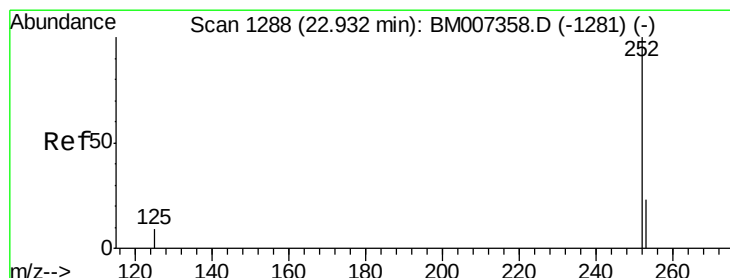
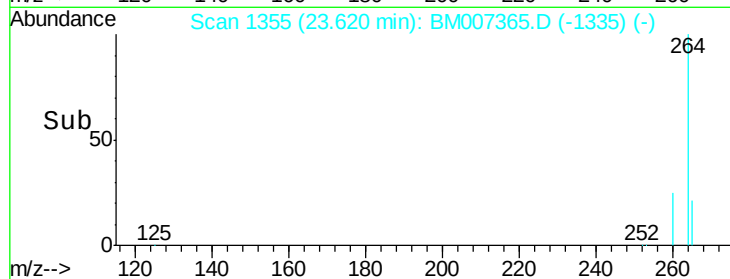
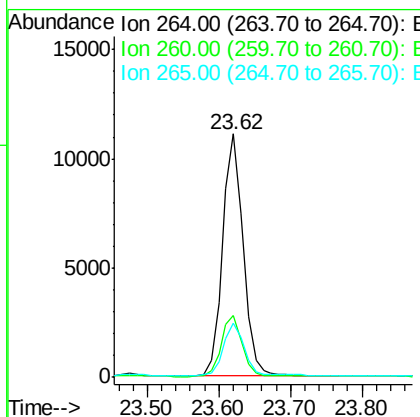
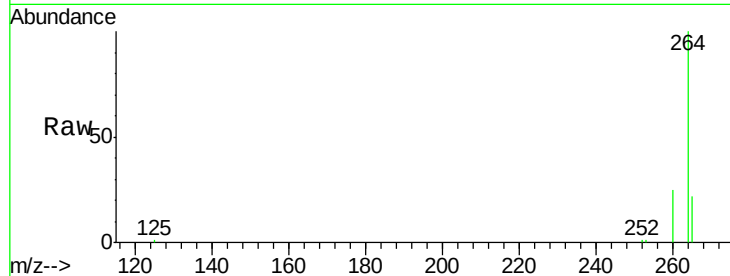
#35  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 23.62 min Scan# 1355  
 Delta R.T. 0.01 min  
 Lab File: BM007365.D  
 Acq: 02 Sep 2016 12:41

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTDCCC0.4

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 264     | 100   | 22171 |       |       |
| 260     | 25.3  | 21.2  | 31.8  |       |
| 265     | 22.0  | 17.1  | 25.7  |       |

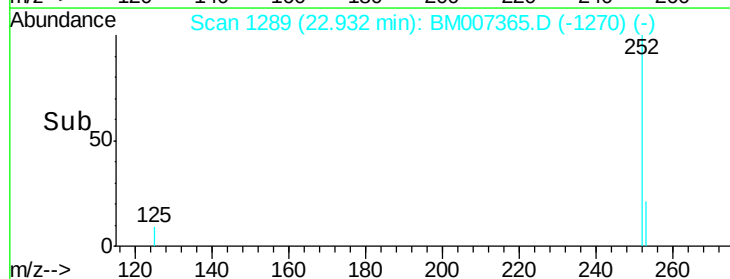
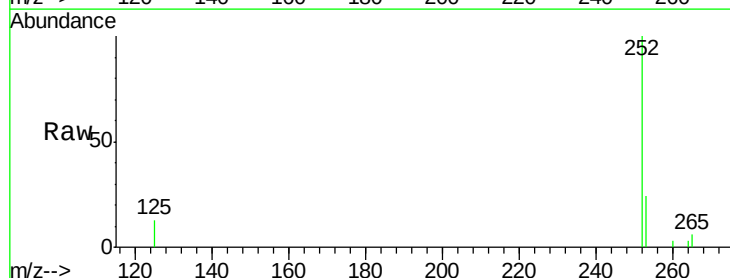
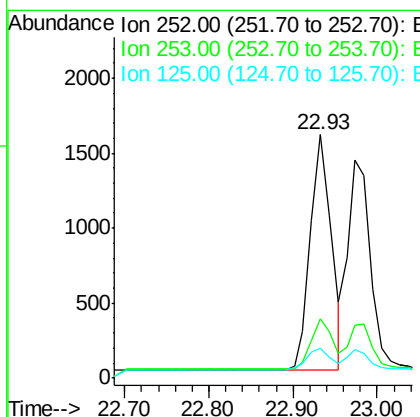
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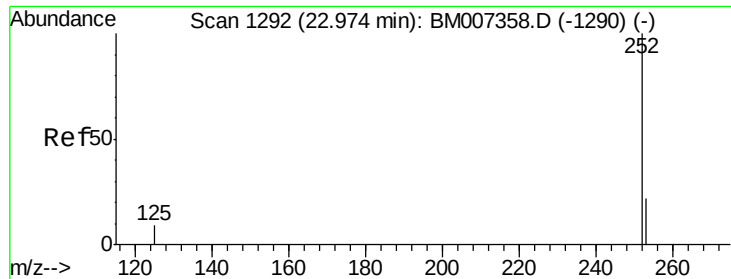
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#36  
**Benzo(b)fluoranthene**  
 Concen: 0.39 ng  
 RT: 22.93 min Scan# 1289  
 Delta R.T. 0.00 min  
 Lab File: BM007365.D  
 Acq: 02 Sep 2016 12:41

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   | 2726 |       |       |
| 253     | 24.2  | 21.4 | 32.2  |       |
| 125     | 12.5  | 10.5 | 15.7  |       |





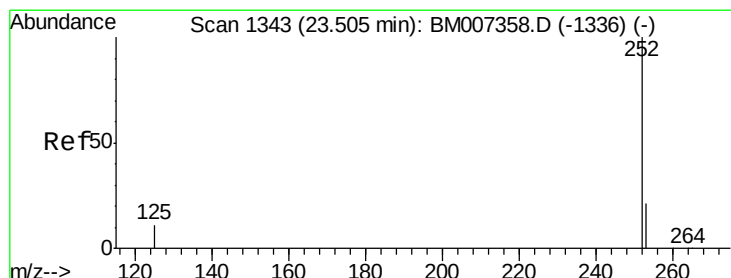
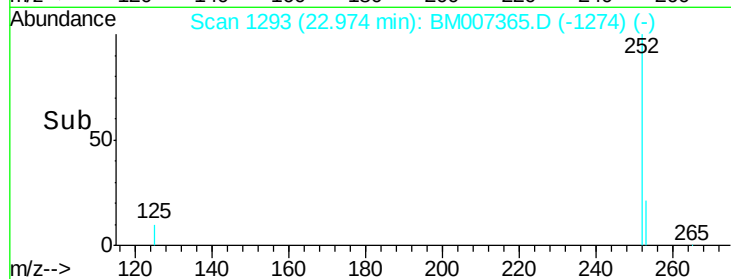
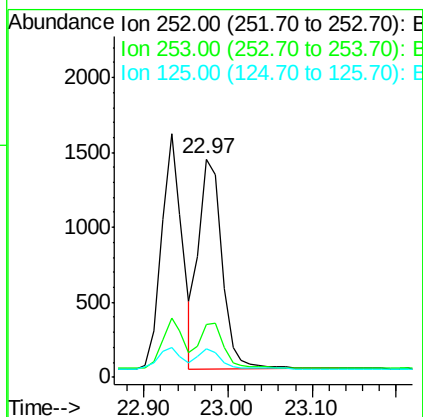
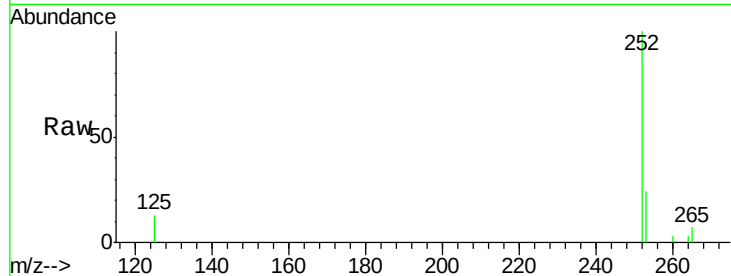
#37  
Benzo(k)fluoranthene  
Concen: 0.42 ng  
RT: 22.97 min Scan# 1293  
Delta R.T. 0.00 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 20.6  | 30.8  |
| 125     | 13.2  | 10.7  | 16.1  |

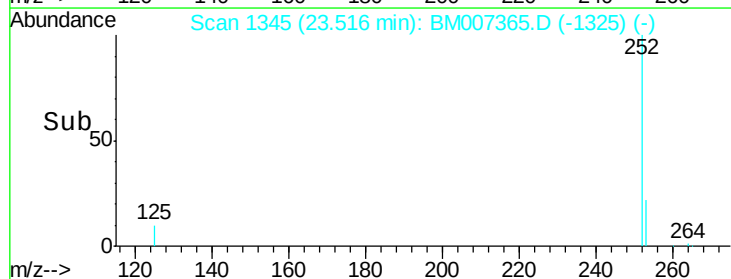
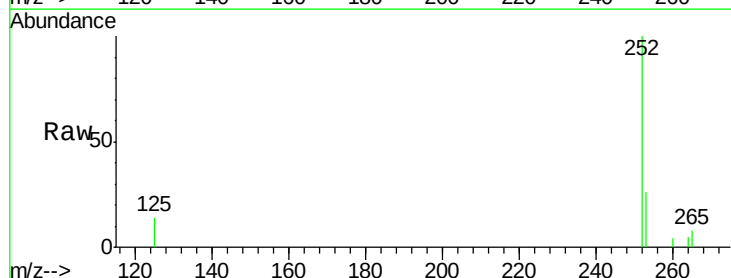
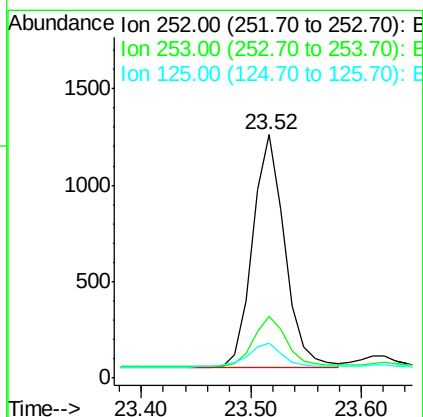
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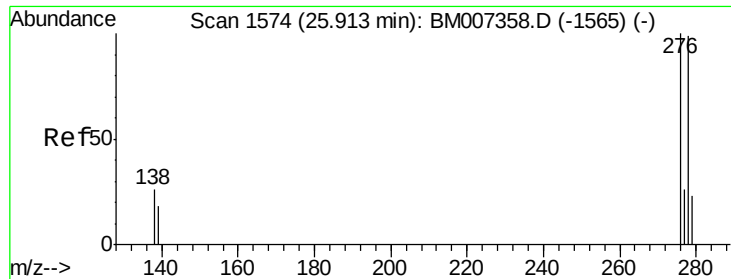
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#38  
Benzo(a)pyrene  
Concen: 0.40 ng  
RT: 23.52 min Scan# 1345  
Delta R.T. 0.01 min  
Lab File: BM007365.D  
Acq: 02 Sep 2016 12:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.6  | 20.6  | 31.0  |
| 125     | 14.2  | 13.0  | 19.4  |





#39

Dibenzo(a,h)anthracene

Concen: 0.40 ng

RT: 25.92 min Scan# 1576

Delta R.T. 0.01 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

Instrument :

BNA\_M

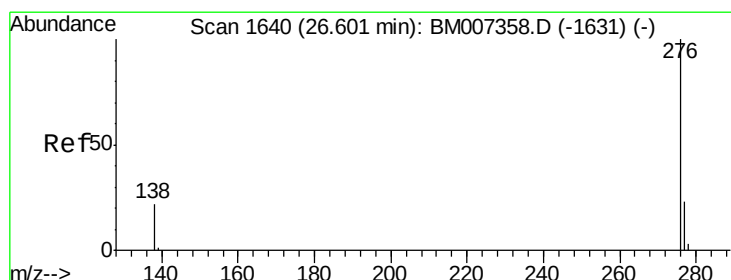
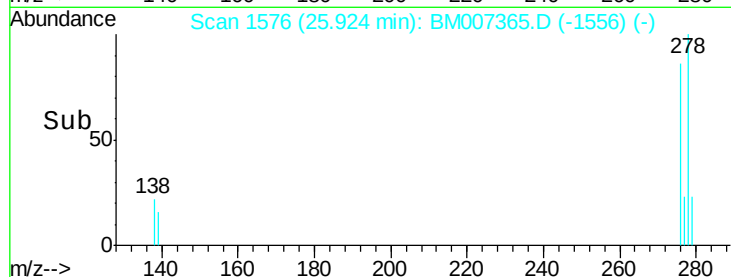
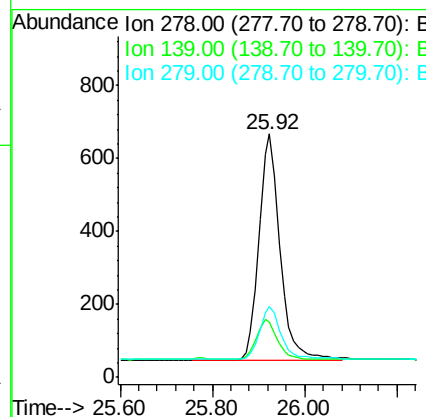
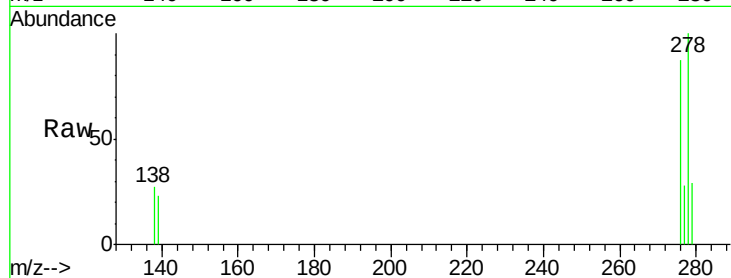
ClientSampleId :

SSTDCCC0.4

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 1975 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 22.6  | 20.4  | 30.6 |
| 279       | 29.2  | 24.2  | 36.4 |

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#40

Benzo(g,h,i)perylene

Concen: 0.41 ng

RT: 26.60 min Scan# 1641

Delta R.T. 0.00 min

Lab File: BM007365.D

Acq: 02 Sep 2016 12:41

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 2096 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 28.9  | 24.2  | 36.2 |
| 138       | 28.7  | 23.1  | 34.7 |

