Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Name of Data Matrix | Name of Variable Matrix | Name of Filename Matrix | Name of Totalcounts Matrix | Name of Samplenames Matrix
---------------------|------------------------|-------------------------|---------------------------|---------------------------
Select Data          | Select Variables       | Select Filenames        | Select Totalcounts        | Select Samples            

This tutorial contains navigation buttons that enable you to move throughout the tutorial.

Please use the navigation buttons and not the page up/page down or arrow keys to navigate through the tutorials.

This is the 'Next' button. It takes you to the next frame or stop point.

This is the 'Previous' button. It takes you to the previous frame or stop point.

This is the 'Go to frame' button. It takes you to a specified frame.

This is the 'Go to URL' button. It takes you to a website link.

Press the 'Next' button below to start this tutorial.
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

<table>
<thead>
<tr>
<th>Name of Data Matrix</th>
<th>Name of Variable Matrix</th>
<th>Name of Filename Matrix</th>
<th>Name of Totalcounts Matrix</th>
<th>Name of Samplenames Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>data</td>
<td>exactmass</td>
<td>filenames</td>
<td>totalcounts</td>
<td>samplenames</td>
</tr>
</tbody>
</table>

This tutorial will cover how to generate multiple raw data figures automatically using the 'Make Multiple Peak Area Figures' function.

This function allows you to quickly make peak area figures from a large number of peaks.
### Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop-down menus to select the data and information you want to use in your analysis.

<table>
<thead>
<tr>
<th>Name of Data Matrix</th>
<th>Name of Variable Matrix</th>
<th>Name of Filename Matrix</th>
<th>Name of TotalCounts Matrix</th>
<th>Name of SampleNames Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>data</td>
<td>exactmass</td>
<td>filenames</td>
<td>totalcounts</td>
<td>samplenames</td>
</tr>
</tbody>
</table>

### Make Multiple Raw Data Figures Panel

Make sure the data you want to plot is selected in the 'Data Selection Panel'.

- **Name of Selected Variables**
- **Name of Peak Labels**

- **List of selected Peaks**
- **Generate Figure names**
- **Output Filename List**
- **Select Plot Type**
  - Choose Plot Type
- **Select Figure Output Format**
  - Choose Output Format
- **Make Figures**
- **Close Panel**
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop-down menus to select the data and information you want to use in your analysis.

Name of Data Matrix

Name of Variable Matrix

Name of Filename Matrix

Name of Totalcounts Matrix

Name of Samplenames Matrix

Make Multiple Raw Data Figures Panel

Choose the data, variables and samplenames you want to work with and press the 'Load Selected' button.

Load Selected

Press the 'Load Selected' Button

Select Plot Type

Choose Plot Type

Select Figure Output Format

Choose Output Format

Generate Figure names

Make Figures

Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Make Multiple Raw Data Figures Panel

Choose the data, variables and samplenames you want to work with and press the 'Load Selected' button.

Currently Loaded
Data: data
Variables: exactmass, samplenames
Samplenames:

The selected data is loaded into the current gui panel.

Generate Figure names

Output Filename List

Select Plot Type
Choose Plot Type

Select Figure Output Format
Choose Output Format

Make Figures

Close Panel
Before we continue, we need to have a variable in our Matlab workspace that has which peaks we want to create figures for and a variable that contains the labels we want to use in the plots.

I created some example variables for this tutorial called 'peakstoplot' and 'peaklabels'.
You must have a label for each peak you want to plot.

Remember that in Matlab, text labels held within a variable must have the same number of characters. You can use spaces to compensate for labels with different numbers of characters.
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the dropdown menus to select the data and information you want to use in your analysis.

Make Multiple Raw Data Figures Panel

Choose the data, variables, and samplenames you want to work with and press the "Load Selected" button.

Now enter the name of the variable that has the peaks you want to plot here.

List of selected Peaks

Output Filename List

Select Plot Type

Choose Plot Type

Select Figure Output Format

Choose Output Format

Generate Figure names

Make Figures

Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Make Multiple Raw Data Figures Panel

Choose the data, variables and samplenames you want to work with and press the 'Load Selected' button.

Currently Loaded

Data: data
Variables: exactmass
Samplenames: samplenames

Name of Selected Variables

Name of Peak Labels

List of selected Peaks

Output Filename List

Select Plot Type

Choose Plot Type

Select Figure Output Format

Choose Output Format

Generate Figure names

Make Figures

Close Panel

The list of selected peaks is automatically populated.
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Make Multiple Raw Data Figures Panel

Choose the data, variables and samenames you want to work with and press the 'Load Selected' button. Now enter the name of the variable that has the peak labels you want to use here.

Select Plot Type

Choose Plot Type

Select Figure Output Format

Choose Output Format

Make Figures

Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Make Multiple Raw Data Figures Panel

Choose the data, variables and samplenames you want to work with and press the 'Load Selected' button.

List of selected Peaks

Output Filename List

Generate Figure names

Then press the 'Generate Figure names' button.

Close Panel
Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

Make Multiple Raw Data Figures Panel

Choose the data, variables and samenames you want to work with and press the 'Load Selected' button.

List of selected Peaks

Output Filename List

The 'Output Filename List' is populated with the names to be used for the files. The names consist of the masses of the peaks and the peak labels. Decimal points are replaced by underscores to avoid issues with filename errors.
Press the 'Make Figures' button.

The figures will be shown rapidly and close as they are saved.

The files are saved to the currently active directory in Matlab (typically the 'work' directory).
The figures will appear and disappear as they are created and saved. When no more figures appear the script is done.
All of the figures are in the active Matlab directory and have the names we created previously.
They look like this.
## Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

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</tr>
</tbody>
</table>

That's it for this tutorial.

Press the green button on the left to go back to the previous step. Press the button the right to go back to the beginning of the tutorial.