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.
This tutorial will cover creating scores plots with 95% confidence limits.

Choose 'Plot Scores with Confidence Limits' from the 'Data Display' Menu.
Press the 'Load Selected Data' button.
Raw 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>dataset</td>
<td>exactmass</td>
<td>filenames</td>
<td>totalcounts</td>
<td>samplenames</td>
</tr>
</tbody>
</table>

MVA Data Selection Panel

<table>
<thead>
<tr>
<th>Name of Scores Matrix</th>
<th>Name of Loadings Matrix</th>
<th>Name of % Variance Matrix</th>
<th>Name of Model Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>scores</td>
<td>loads</td>
<td>variance</td>
<td>model</td>
</tr>
</tbody>
</table>

Plot Scores

Load Selected Data

Scores: scores
Samples: samplenames
Variance: variance

The data is loaded and is highlighted in red.

X-Axis
1
2
3
4
5

Y-Axis
1
2
3
4
5

Confidence Limit
%

Plot Scores
Save Scores Plot

Close Panel
Choose the 95% value from the drop down menu.

For now this is the only option since I'm not sure if other confidence limits are of interest.
Press the 'Plot Scores' button.
The plot is created.
The legend can be moved by clicking on it and dragging it to a new location.
### Raw 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 Total counts Matrix</th>
<th>Name of Sample names Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>ndataset</td>
<td>exactmass</td>
<td>filenames</td>
<td>totalcounts</td>
<td>samplenames</td>
</tr>
</tbody>
</table>

### MVA Data Selection Panel

<table>
<thead>
<tr>
<th>Name of Scores Matrix</th>
<th>Name of Loadings Matrix</th>
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<th>Name of Model Matrix</th>
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<tr>
<td>scores</td>
<td>loads</td>
<td>variance</td>
<td>model</td>
</tr>
</tbody>
</table>

### Plot Scores

- **Load Selected Data**
- **Scores:** `scores`
- **Samples:** `samplenames`
- **Variance:** `variance`

### Export CL data from Scores Plot

This will export the confidence limits from plots of PCs vs sample number. The files will be saved into the chosen folder.

- `topscorelimit = mean-confidence limit`
- `bottomscorelimit = mean-confidence limit`

You can save this scores plot to a file of your choosing. For this press the 'Save Scores Plot' button and a save dialog appears.
You can choose where to save the file and give it whatever name you want.

You can choose from several graphic formats from the 'Save as type' drop down menu.
Raw 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: ndataset
Name of Variable Matrix: exactmass
Name of Filename Matrix: filenames
Name of Totalcounts Matrix: totalcounts
Name of Samplenames Matrix: samplenames

MVA Data Selection Panel

Name of Scores Matrix: scores
Name of Loadings Matrix: loads
Name of % Variance Matrix: variance
Name of Model Matrix: model

Plot Scores

Load Selected Data

Scores: scores
Samples: samplenames
Variance: variance

Export CL data from Scores Plot

This will export the confidence limits from plots of PCx vs sample number. The files will be saved into the chosen folder.

topscorelimit = mean+confidence limit
bottomscorelimit = mean-confidence limit

You can also save the confidence limit data to a text file so you can plot it in your favorite data plotting program.

For this press the 'Export X,Y Data' button and choose where you want to save the data.

Close Panel
The data is saved in the directory you specified.

NOTE: this is the confidence limit data. The scores data is exported using the 'Export MVA Data' option from the 'MVA' menu.
You can also create cross plots of scores with the 95% confidence limits.
Simply select 2 PCs and press the 'Plot Scores' button.
The plot is updated here as before.
The plot can be saved as shown before.
In the case of a cross plot of 2 pcs, the x,y scores data and x,y confidence limit data are saved to files when you press the ‘Export X,Y Data’ button.
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.

MVA Data Selection Panel

Plot Scores

Load Selected Data

Scores: scores
Samples: samplenames
Variance: var

X-Axis

Y-Axis

Confidence Limit

Export X,Y data from Scores Plot

This will export the X,Y data for the data points and confidence limits into 4 files within the chosen directory.

You can also create an external figure for any scores plot on this panel. Simply press the 'Make Ext' button.
The figure will open in a new window and you can edit it and save it as desired.
Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

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<th>Name of Filename Matrix</th>
<th>Name of Totalcounts Matrix</th>
<th>Name of Samplenames Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Data</td>
<td>Select Variables</td>
<td>Select Filenames</td>
<td>Select Totalcounts</td>
<td>Select Samples</td>
</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.