TutorialData.xlsx - Microsoft Excel

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Draw Shapes

Draw - Picture

A3

	A	B
1	AUTOMATED SPECTRA EVALUATION REPORT	
2	================================	
3		
4	Filename	S1S1.tdc
5	==========	==========
6	# 15.036	4716
7	# 26.994	18578
8	# 41.029	27553
9	# 27.976	7693
10	# 42.968	12902
11	# 73.077	13771
12	#104.048	9725
13	#148.968	5158
14	#104.040	9901
15	#199.714	594128
16		
17		
18		
19		
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21		
22		
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35		

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.

JobWizardDump

Ready

100%

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A3

AUTOMATED SPECTRA EVALUATION REPORT

==========

Filename	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
# 15.036	4716	5682	1767	1851	5896	6284	2085
# 26.994	18578	22656	4101	4367	26879	24447	1118
# 41.029	27553	30807	1924				
# 27.976	7693	9782	34842				
# 42.968	12902	8940	12346				
# 73.077	13771	8484	23301				
#104.048	9725	3599	1541				
#148.968	5158	2082	2306				
#104.040	9901	3900	1581				
#199.714	594128	606798	294589				

This tutorial will cover how to get data exported from the PHI Job Wizard into the spectragui.

This tutorial assumes you know how to use the PHI software to choose a set of peaks and then export the peak area data using the Job Wizard.

Since I am not a current PHI user, I cannot answer questions about how to use the PHI software.

JobWizardDump

Ready

100%

phitesttable7.txt - OpenOffice.org Calc

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A3

	A	B	C	D	E	F	G	H
1	AUTOMATED SPECTRA EVALUATION REPORT							
2	================================							
3								
4	Filename	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
5	==========	==========	==========	==========	==========	==========	==========	==========
6	# 15.036	4716	5682	1767	1851	5896	6284	2085
7	# 26.994	18578	22656	4101	4367	26879	24447	1118
8	# 41.029	27553	30807	1924	1996	37265	26520	457
9	# 27.976	7693	9782	34842	40051	6283	12190	81974
10	# 42.968	12902	8940	12346	13311	7582	10060	441
11	# 73.077	13771	8484	23301	24755	11119	31378	967
12	#104.048	9725	3599	1541	1578	6565	10444	15
13	#148.968	5158	2082	2306	2326	3727	6265	367
14	#104.040	9901	3900	1581	1610	6600	10555	25
15	#199.714	594128	606798	294589	310284	645783	589882	519708

The short version of this tutorial is that you need to make this table exported from the Job Wizard ...

JobWizardDump

Ready

100%

phitesttable7.txt - OpenOffice.org Calc

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F19

	A	B	C	D	E	F	G	H	I
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	15.04	15	4716	5682	1767	1851	5896	6284	2085
3	26.99	27	18578	22656	4101	4367	26879	24447	1118
4	41.03	41	27553	30807	1924	1996	37265	26520	457
5	27.98	28	7693	9782	34842	40051	6283	12190	81974
6	42.97	43	12902	8940	12346	13311	7582	10060	441
7	73.08	73	13771	8484	23301	24755	11119	31378	967
8	104.05	104	9725	3599	1541	1578	6565	10444	15
9	148.97	149	5158	2082	2306	2326	3727	6265	367
10	104.04	104	9901	3900	1581	1610	6600	10555	25
11	Spectrum	Total	594128	606798	294589	310284	645783	589882	519708

Look like this.

If you can do this on your own, you can skip ahead in the tutorial. Here ->

If not, continue on...

Sheet1

Sheet 1 / 1 | Default | STD | * | Sum=0 | 98%

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First select the top three rows.

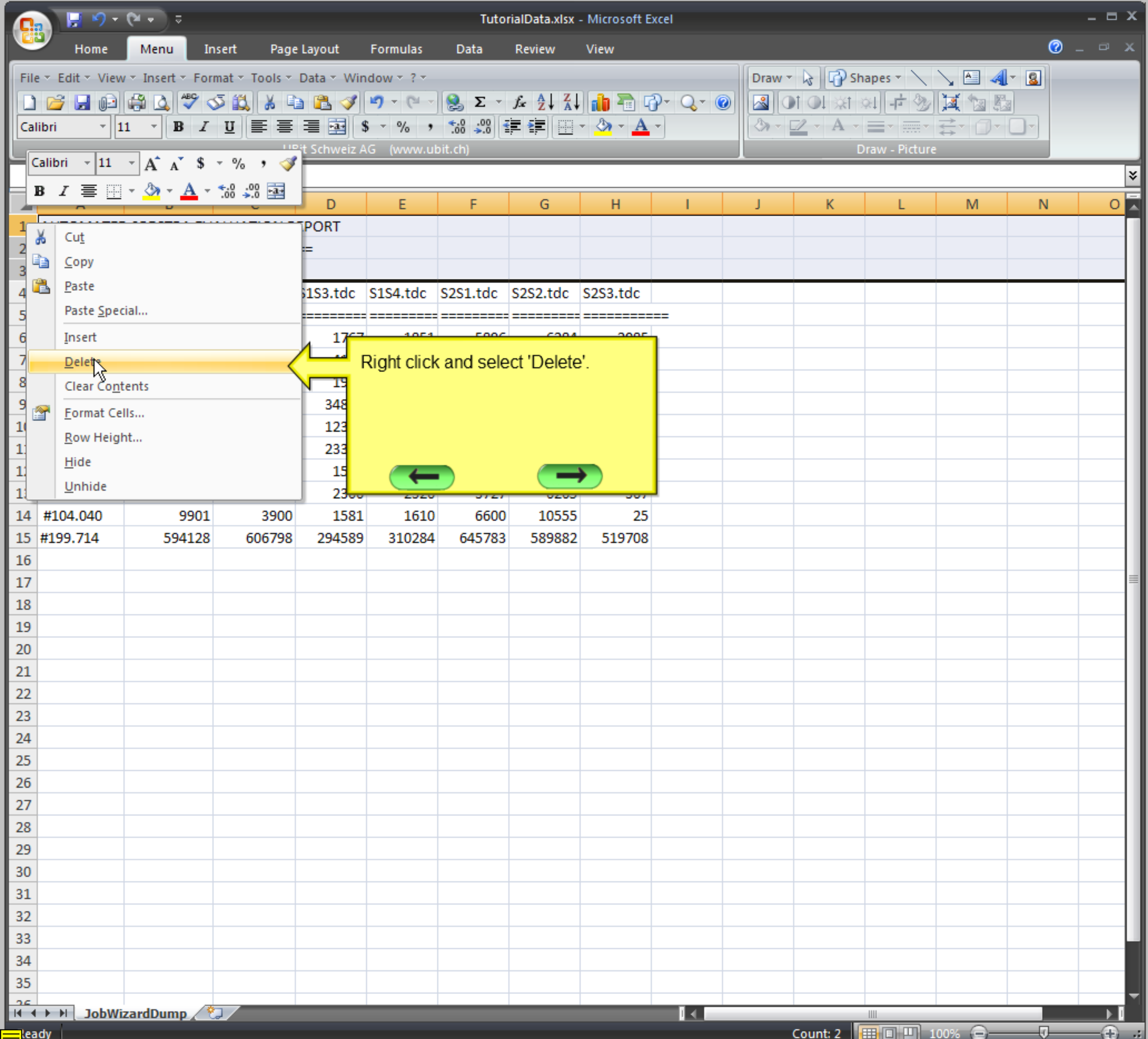
	A	B	C	D	E	F	G	H
1	AUTOMATED SP							
2	=======							
3								
4	Filename	S1S				S1.tdc	S2S2.tdc	S2S3.tdc
5	==========	===				=======	========	==========
6	# 15.036					5896	6284	2085
7	# 26.994					26879	24447	1118
8	# 41.029	27553	30807	1924	1996	37265	26520	457
9	# 27.976	7693	9782	34842	40051	6283	12190	81974
10	# 42.968	12902	8940	12346	13311	7582	10060	441
11	# 73.077	13771	8484	23301	24755	11119	31378	967
12	#104.048	9725	3599	1541	1578	6565	10444	15
13	#148.968	5158	2082	2306	2326	3727	6265	367
14	#104.040	9901	3900	1581	1610	6600	10555	25
15	#199.714	594128	606798	294589	310284	645783	589882	519708

JobWizardDump

Ready

Count: 2

100%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Cut
Copy
Paste
Paste Special...
Insert
Delete
Clear Contents
Format Cells...
Row Height...
Hide
Unhide
Right click and select 'Delete'.
S1S3.tdc
S1S4.tdc
S2S1.tdc
S2S2.tdc
S2S3.tdc
#104.040 9901 3900 1581 1610 6600 10555 25
#199.714 594128 606798 294589 310284 645783 589882 519708
JobWizardDump
Ready
Count: 2
100%

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A2 ==========

	A	B	C	D	E	F	G	H
1	Filename	S1S1				1.tdc	S2S2.tdc	S2S3.tdc
2	========					======	========	==========
3	# 15.036					5896	6284	2085
4	# 26.994					26879	24447	1118
5	# 41.029					37265	26520	457
6	# 27.976					6283	12190	81974
7	# 42.968					7582	10060	441
8	# 73.077	13771	8484	23301	24755	11119	31378	967
9	#104.048	9725	3599	1541	1578	6565	10444	15
10	#148.968	5158	2082	2306	2326	3727	6265	367
11	#104.040	9901	3900	1581	1610	6600	10555	25
12	#199.714	594128	606798	294589	310284	645783	589882	519708
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Now do the same with this row (now #2).

JobWizardDump

Ready

Count: 8

100%

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10R x 1C

fx # 15.036

	A	B	C	D	E	F	G	H
1	Filename	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	# 15.036	4716	5682	1767	1851	5896	6284	2085
3	# 26.994	18578	22656	4101	4367	26879	24447	1118
4	# 41.029	27553					26520	457
5	# 27.976						12190	81974
6	# 42.968	12902					10060	441
7	# 73.077	13771					31378	967
8	#104.048	9725					10444	15
9	#148.968	5158					6265	367
10	#104.040	9901					10555	25
11	#199.7	594128	606798	294589	310284	645783	589882	519708
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Now select all of the peak masses and do a find and replace to get rid of the '#' symbols.

JobWizardDump

Ready

Count: 10

100%

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Find and Replace

Find | Replace

Find what: #

Replace with:

Replace All | Replace | Find All | Find Next

To do this bring up the 'Find and Replace' dialog and enter # in the 'Find what' field. Leave the 'Replace with' field blank and press the 'Replace All' button.

	G	H	I	J	K	L	M	N	O
8	#104.048	9725	3599	1541					
9	#148.968	5158	2082	2306	2326	3727	6265	367	
10	#104.040	9901	3900	1581	1610	6600	10555	25	
11	#199.714	594128	606798	294589	310284	645783	589882	519708	
12									
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JobWizardDump

Ready

Count: 10

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Draw Shapes

Draw - Picture

A1 m/z

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	m/z	S1 tdc					S2S2.tdc	S2S3.tdc							
2	15.036	4				5	6284	2085							
3	26.994	18				9	24447	1118							
4	41.029	27				5	26520	457							
5	27.976	7				3	12190	81974							
6	42.968	12				2	10060	441							
7	73.077	13				9	31378	967							
8	104.048	9725	3599	1541	1578	6565	10444	15							
9	148.968	5158	2082	2306	2326	3727	6265	367							
10	104.04	9901	3900	1581	1610	6600	10555	25							
11	199.714	594128	606798	294589	310284	645783	589882	519708							
12															
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Now replace the text of the first cell with 'm/z'.

JobWizardDump

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100%

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B1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	m/z		1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc					
2	15.036		4716	5682	1767	1851	5896	6284	2085					
3	26.994						879	24447	1118					
4	41.029						265	26520	457					
5	27.976						283	12190	81974					
6	42.968						582	10060	441					
7	73.077						119	31378	967					
8	104.048						565	10444	15					
9	148.968						727	6265	367					
10	104.04						600	10555	25					
11	199.714		594128	606798	294589	310284	645783	589882	519708					
12														
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Insert a new column here.

JobWizardDump

Ready

100%

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B1 m/z(nom)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	m/z	m/z(nom)	S1					S2S2.tdc	S2S3.tdc					
2	15.036		4				5	6284	2085					
3	26.994		185				9	24447	1118					
4	41.029		275				5	26520	457					
5	27.976		76				3	12190	81974					
6	42.968		12962	8940	12340	13511	7582	10060	441					
7	73.077		13771	8484	23301	24755	11119	31378	967					
8	104.048		9725	3599	1541	1578	6565	10444	15					
9	148.968		5158	2082	2306	2326	3727	6265	367					
10	104.04		9901	3900	1581	1610	6600	10555	25					
11	199.714		594128	606798	294589	310284	645783	589882	519708					
12														
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Put 'm/z(nom)' in as the column title.

JobWizardDump

Enter

100%

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SUM =round(A2,0)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S				c					
2	15.996	=round(A2,0)		5					85					
3	26.994	ROUND(number, num_digits)		22636					18					
4	41.029		27553	30807					57					
5	27.976		7693	9782					74					
6	42.968		12902	8940					41					
7	73.077		13771	8484					67					
8	104.048		9725	3599					15					
9	148.968		5158	2082	2306	2326	3727	6265	367					
10	104.04		9901	3900	1581	1610	6600	10555	25					
11	199.714		594128	606798	294589	310284	645783	589882	519708					
12														
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35														

Use the 'Round' function to round the masses in this column to unit mass.
=round(A2,0)

JobWizardDump

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B2 =ROUND(A2,0)

	A	B	C	D	E	F	G	H	I
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	15.036	15	4716	5682	1767	1851	5896	6284	2085
3	26.994	27	18578	22656	4101	4367	26879	24447	1118
4	41.029	41	27553	30807	1924	1996	37265	26520	457
5	27.976	28	769					12190	81974
6	42.968	43						10060	441
7	73.077	73	1377					31378	967
8	104.048	104	972					10444	15
9	148.968	149	515					6265	367
10	104.04	104	990					10555	25
11	199.714	200	59412					589882	519708
12									
13									
14									
15									
16									
17									
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23									
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28									
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33									
34									
35									

Copy this formula down for all masses.

JobWizardDump

Ready Average: 78.4 Count: 10 Sum: 784 100%

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A11 spectrum

	A	B	C	D	E	F	G	H	I
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	15.036	15	4716	5682	1767	1851	5896	6284	2085
3	26.994	27	18578	22656	4101	4367	26879	24447	1118
4	41.029	41	27553	30807	1924	1996	37265	26520	457
5	27.976	28	7693	9782	34842	40051	6283	12190	81974
6	42.968	43	12902	8940	12346	13311	7582	10060	441
7	73.077	73	13771	8484	23301	24755	11119	31378	967
8	104.048	104	9725	3599	1541	1578	6565	10444	15
9	148.968	149	5158	2082	2306	2326	3727	6265	367
10	104.04	104					6600	10555	25
11	spectrum						645783	589882	519708
12									
13									
14									
15									
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35									

Type 'Spectrum' in this cell. The mass originally shown here is not a real peak. It is a place holder for the total counts for each spectrum.

JobWizardDump

nter

100%

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Draw Shapes

Draw - Picture

B12

	A	B	C	D	E	F	G	H	I
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	15.036	15	4716	5682	1767	1851	5896	6284	2085
3	26.994	27	18578	22656	4101	4367	26879	24447	1118
4	41.029	41	27553	30807	1924	1996	37265	26520	457
5	27.976	28	7693	9782	34842	40051	6283	12190	81974
6	42.968	43	12902	8940	12346	13311	7582	10060	441
7	73.077	73	13771	8484	23301	24755	11119	31378	967
8	104.048	104	9725	3599	1541	1578	6565	10444	15
9	148.968	149	5158	2082	2306	2326	3727	6265	367
10	104.04	104					00	10555	25
11	spectrum	total					83	589882	519708
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
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33									
34									
35									

Put the word 'total' in this cell.

JobWizardDump

Ready

100%

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- Save as Web Page...
- Save Workspace...
- Web Page Preview
- Page Setup
- Print Area
- Print Preview
- Print
- Prepare
- Send
- View Document Properties...
- Exit Excel

Save the file using 'Save As'

Excel Binary Workbook
Save the workbook in a binary file format optimized for fast loading and saving.

Excel 97-2003 Workbook
Save a copy of the workbook that is fully compatible with Excel 97-2003.

OpenDocument Spreadsheet
Save the workbook in the Open Document Format.

PDF or XPS
Publish a copy of the workbook as a PDF or XPS file.

Other Formats
Open the Save As dialog box to select from all possible file types.

G	H	I	J	K	L	M	N
.tdc	S2S2.tdc	S2S3.tdc					
5896	6284	2085					
6879	24447	1118					
7265	26520	457					
6283	12190	81974					
7582	10060	441					
1119	31378	967					
6565	10444	15					
3727	6265	367					
6600	10555	25					
45783	589882	519708					

JobWizardDump

Ready

100%

TutorialData.xlsx - Microsoft Excel

Home | Menu | Insert | Page Layout | Formulas | Data | Review | View

File Edit View Insert Format Tools Data Window ?

Calibri 11

UBit Schweiz AG (www.ubit.ch)

Draw Shapes

Draw - Picture

B12

	A	B	C	D	E	F	G	H	I
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	15.036	15	4716	5682	1767	1851	5896	6284	2085
3	26.994	27	18578	22656	4101	4367	26879	24447	1118
4	41.029								
5	27.976								
6	42.968								
7	73.077								
8	104.048								
9	148.968								
10	104.04								
11	spectrum	total							
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35									

Save As

Save in: PHIData

- watsonfiles
- ~$TutorialData.xlsx
- Spectra_PeakAreaTable.xlsx
- TutorialData.xlsx

My Recent Documents

Desktop

My Documents

My Computer

My Network Places

File name: TutorialData.xlsx

Save as type: Excel Workbook (*.xlsx)

- Excel Macro-Enabled Template (*.xltm)
- Excel 97-2003 Template (*.xlt)
- Text (Tab delimited) (*.txt)
- Unicode Text (*.txt)
- XML Spreadsheet 2003 (*.xml)
- Microsoft Excel 5.0/95 Workbook (*.xls)

Tools

Cancel

Make the 'Save as Type' be 'Text (Tab delimited)(*.txt)

JobWizardDump

Ready

100%

TutorialData.xlsx - Microsoft Excel

Home | Menu | Insert | Page Layout | Formulas | Data | Review | View

File Edit View Insert Format Tools Data Window ?

Calibri 11

UBit Schweiz AG (www.ubit.ch)

Draw Shapes

Draw - Picture

B12

	A	B	C	D	E	F	G	H	I
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	15.036	15	4716	5682	1767	1851	5896	6284	2085
3	26.994	27	18578	22656	4101	4367	26879	24447	1118
4	41.029								
5	27.976								
6	42.968								
7	73.077								
8	104.048								
9	148.968								
10	104.04								
11	spectrum	total							
12									

Save As

Save in: PHIData

watsonfiles
phitesttable.txt

My Recent Documents
Desktop
My Documents
My Computer
My Network Places

File name: TutorialData.txt

Save as type: Text (Tab delimited) (*.txt)

Tools

Cancel

Give the file a name.

JobWizardDump

Ready

100%

TutorialData.xlsx - Microsoft Excel

Home | Menu | Insert | Page Layout | Formulas | Data | Review | View

File Edit View Insert Format Tools Data Window ?

Calibri 11

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Draw Shapes

Draw - Picture

B12

	A	B	C	D	E	F	G	H	I
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	15.036	15	4716	5682	1767	1851	5896	6284	2085
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4	41.029								
5	27.976								
6	42.968								
7	73.077								
8	104.048								
9	148.968								
10	104.04								
11	spectrum	total							
12									

Because it is required for the import script it is a good idea to note the number of spectra in the file in the filename. Here there are 7 files.

Save As

Save in: PHIData

watsonfiles
phitesttable.txt

My Recent Documents
Desktop
My Documents
My Computer
My Network Places

File name: TutorialData.txt

Save as type: Text (Tab delimited) (*.txt)

Tools | Save | Cancel

JobWizardDump

Ready

100%

TutorialData.xlsx - Microsoft Excel

Home | Menu | Insert | Page Layout | Formulas | Data | Review | View

File Edit View Insert Format Tools Data Window ?

Calibri 11

UBit Schweiz AG (www.ubit.ch)

Draw Shapes

Draw - Picture

B12

	A	B	C	D	E	F	G	H	I
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	15.036	15	4716	5682	1767	1851	5896	6284	2085
3	26.994	27	18578	22656	4101	4367	26879	24447	1118
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10	104.04								
11	spectrum	total							
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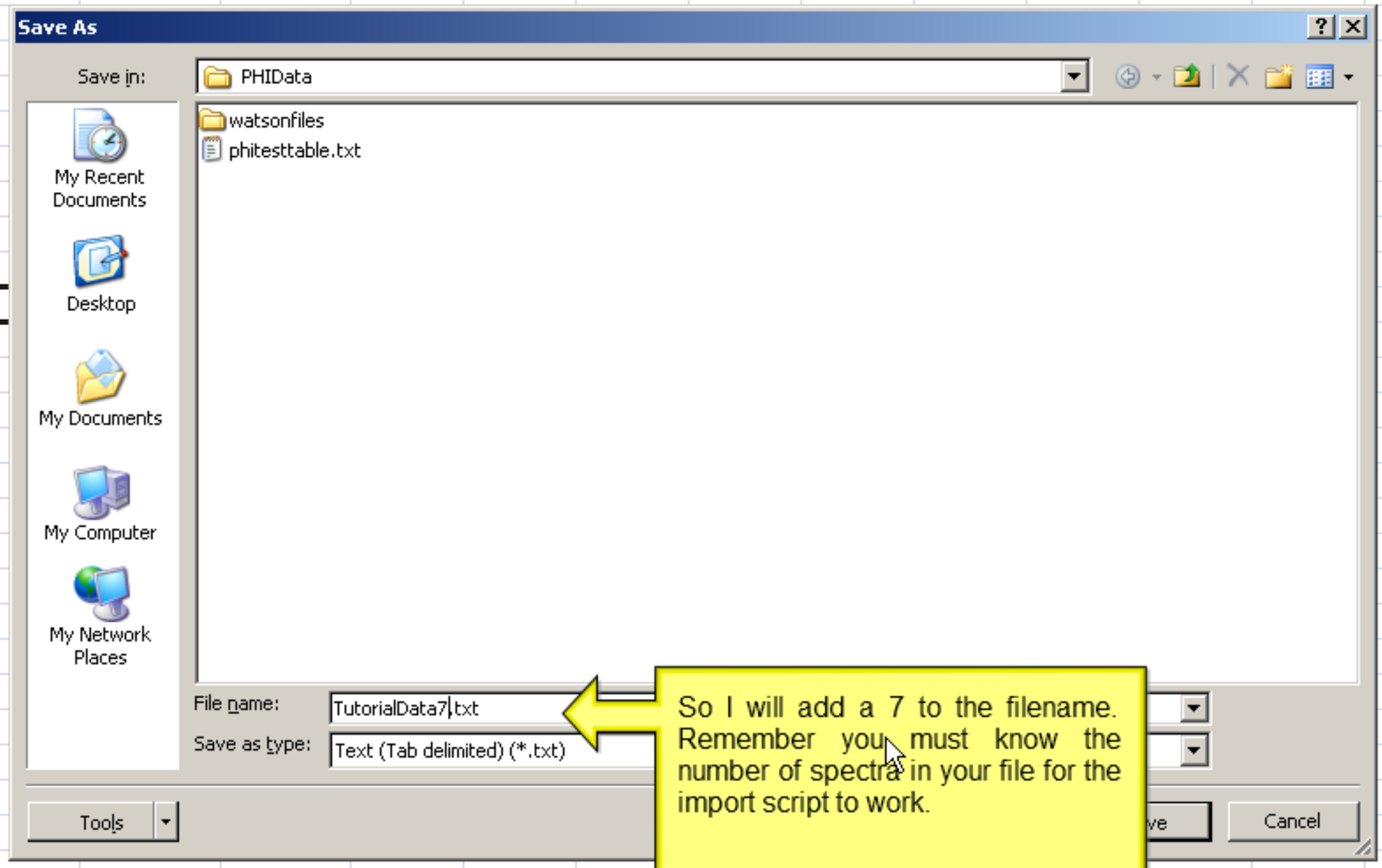
35									



So I will add a 7 to the filename. Remember you must know the number of spectra in your file for the import script to work.

JobWizardDump

Ready

100%

TutorialData.xlsx - Microsoft Excel

Home | Menu | Insert | Page Layout | Formulas | Data | Review | View

File Edit View Insert Format Tools Data Window ?

Calibri 11

UBit Schweiz AG (www.ubit.ch)

Draw Shapes

Draw - Picture

B12

	A	B	C	D	E	F	G	H	I
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc
2	15.036	15	4716	5682	1767	1851	5896	6284	2085
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5	27.976								
6	42.968								
7	73.077								
8	104.048								
9	148.968								
10	104.04								
11	spectrum	total							
12									

Save As

Save in: PHIData

watsonfiles
phitesttable.txt

My Recent Documents
Desktop
My Documents
My Computer
My Network Places

File name: TutorialData7.txt

Save as type: Text (Tab delimited) (*.txt)

Tools | Save | Cancel

Make sure the file is being saved in your active matlab folder.

Press the 'Save' button to save the file.

JobWizardDump

Ready

100%

TutorialData7.txt - Microsoft Excel

Home | Menu | Insert | Page Layout | Formulas | Data | Review | View

File Edit View Insert Format Tools Data Window ?

Calibri 11

UBit Schweiz AG (www.ubit.ch)

Draw Shapes

Draw - Picture

B12

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	m/z	m/z(nom)	S1S1.tdc	S1S2.tdc	S1S3.tdc	S1S4.tdc	S2S1.tdc	S2S2.tdc	S2S3.tdc					
2	15.036	15	4716	5682	1767	1851	5896	6284	2085					
3	26.994	27	18578	22656	4101	4367	26879	24447	1118					
4	41.029	41	27553	30807	1924	1996	37265	26520	457					
5	27.976	28	7693	9782	34842	40051	6283	12190	81974					
6	42.968	43	12902	8940	12346	13311	7582	10060	441					
7	73.077	73	13771	8484	23301	24755	11119	31378	967					
8	104.048	104	9725	3599	1541	1578	6565	10444	15					
9	148.968	149	5158	2082	2306	2326	3727	6265	367					
10	104.04	104	9901	3900	1581	1610	6600	10555	25					
11	spectrum	total	594128	606798	294589	310284	645783	589882	519708					
12														
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35														

Microsoft Office Excel

TutorialData7.txt may contain features that are not compatible with Text (Tab delimited). Do you want to keep the workbook in this format?

- To keep this format, which leaves out any incompatible features, click Yes.
- To preserve the features, click No. Then save a copy in the latest Excel format.
- To see what might be lost, click Help.

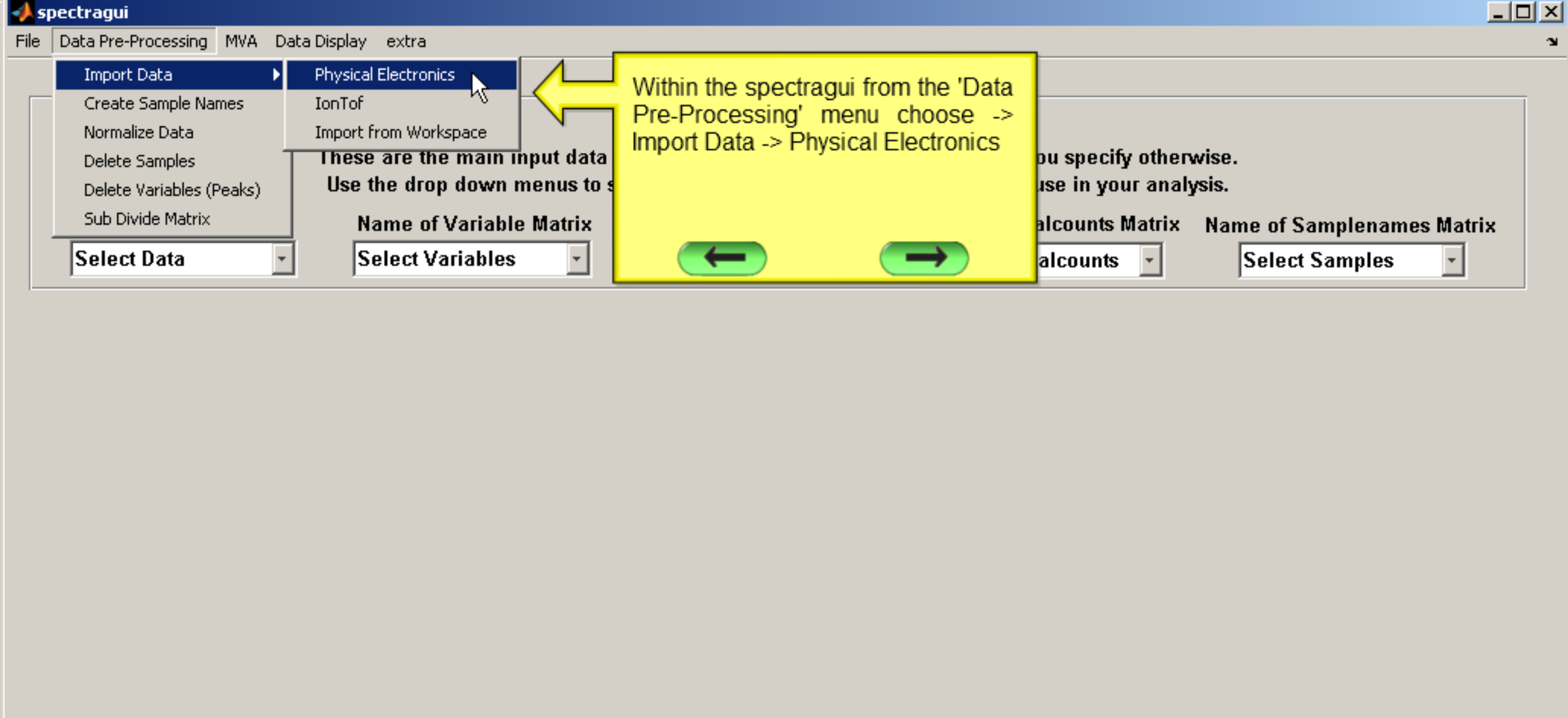
Yes

Press 'Yes' to keep the current format.

TutorialData7

Ready

100%


spectragui
File
Data Pre-Processing
MVA
Data Display
extra
Import Data
Create Sample Names
Normalize Data
Delete Samples
Delete Variables (Peaks)
Sub Divide Matrix
Physical Electronics
IonTof
Import from Workspace
Within the spectragui from the 'Data Pre-Processing' menu choose -> Import Data -> Physical Electronics
Name of Variable Matrix
Select Data
Select Variables
Select Samples
Name of Samplenames Matrix

spectragui

File Data Pre-Processing MVA Data Display extra

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

PHI Data import (Tofpak Output)

Name of .txt. file

tutorialdata7.txt

Number of Files in Data Set

7

Import Data

Close Panel

Enter the full name of the file including the .txt extension.

Enter the number of files(spectra) in the data set and press the 'Import Data' button.

spectragui

File Data Pre-Processing MVA Data Display extra

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

Select Data
data

The data, variable list, filenames and totalcounts are all imported into matlab and into the spectragui.

MATLAB 7.3.0 (R2006b)

File Edit Debug Desktop Window Help

Current Directory: C:\Program Files\MATLAB\R2006b\work

Shortcuts How to Add What's New

Workspace

Name	Value
data	<7x9 double>
exactmass	<9x8 char>
filenames	<7x8 char>
nommass	<9x8 char>
totalcounts	[594128;60679(

Current Directory | Workspace

Command History

Command Window

```
>> spectragui
>> filenames

filenames =

S1S1.tdc
S1S2.tdc
S1S3.tdc
S1S4.tdc
S2S1.tdc
S2S2.tdc
S2S3.tdc

>>
```

Here we show the filenames imported. As expected they match the names in the file we imported.

Start

OVR

MATLAB 7.3.0 (R2006b)

File Edit Debug Desktop Window Help

Current Directory: C:\Program Files\MATLAB\R2006b\work

Shortcuts How to Add What's New

Workspace

Name	Value
data	<7x9 double>
exactmass	<9x8 char>
filenames	<7x8 char>
nommass	<9x8 char>
totalcounts	[594128;60679

Current Directory | Workspace

Command History

Command Window

```
>> spectragui
>> filenames

filenames =

S1S1.tdc
S1S2.tdc
S1S3.tdc
S1S4.tdc
S2S1.tdc
S2S2.tdc
S2S3.tdc

>>
```

That ends this tutorial. Press the button on the left to go back to the previous step. Press the button on the right to start the tutorial over.

Start

OVR