Spekwin32, Guidance for:

Paste Data from Clipboard

Paste Data from Clipboard does:

Instantly create a spectral plot from copy&pasted data columns. Auto-detect axis types and spectrum names.

Sequence of steps:

1. Open your spectral data in text editor, Excel, or whatever
2. Add axis types and/ or spectrum texts to data columns
3. Select data for spectrum plot creation
4. Paste into Spekwin32
5. Finished!

Following:
Examples for data insertion
(spectral data from „Test Spectra“ collection,
subfolder: *csv files**csv_sample.csv*)

- First open the *csv_sample.csv* file in Excel (german users with german settings take the *csv_sample_de.csv*)
- looking like this:

H5

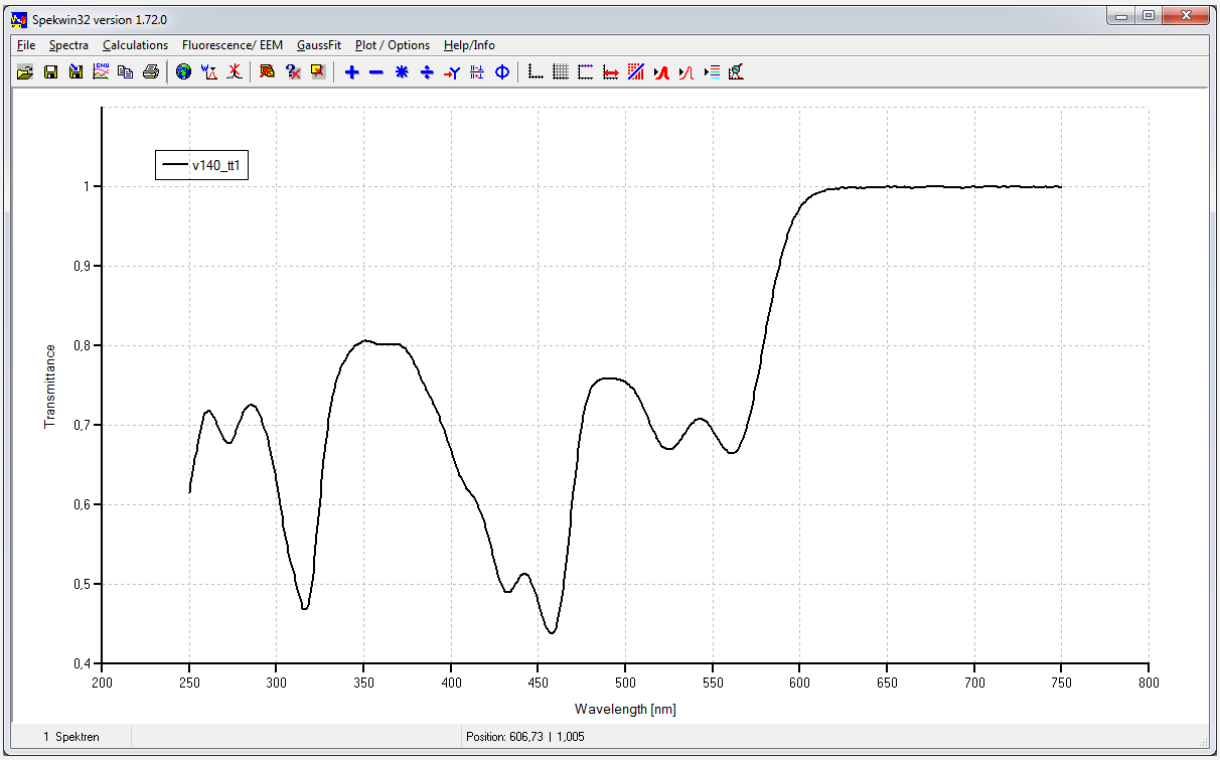
	A	B	C	D	E	F	G
1		v140_tt1		DW1-1A,DX		DW42A,DX	
2	Wavelength	Transmittance	Wavelength [nm]	Absorbance	Wavelength [nm]	Intensity	
3	249,993	0,61576	190	1,0586	350	8,40E-05	
4	250,993	0,62798	191	1,1154	350,5	-6,00E-05	
5	251,993	0,64205	192	1,0163	351	-3,20E-05	
6	252,993	0,65836	193	0,90529	351,5	0,00015596	
7	253,993	0,66593	194	0,82813	352	0,000324	
8	254,993	0,67582	195	0,76499	352,5	0,000336	
9	255,993	0,68848	196	0,72121	353	0,000264	
10	256,994	0,70061	197	0,69713	353,5	0,000264	
11	257,994	0,7109	198	0,68705	354	0,00035996	
12	258,994	0,71492	199	0,69268	354,5	0,000396	
13	259,994	0,71696	200	0,71057	355	0,00030796	
14	260,994	0,71924	201	0,7417	355,5	0,000232	

- Just three pairs of x/y columns… With axis type and spectrum names on top…
- Now select the first two columns data range:
- Use Excel shortcut **CTRL+SHIFT+↓** or **CTRL+SHIFT+→** (working really great, just repeat pressing the arrow key until you reach the end of the data column)
- This gets you here:

A1

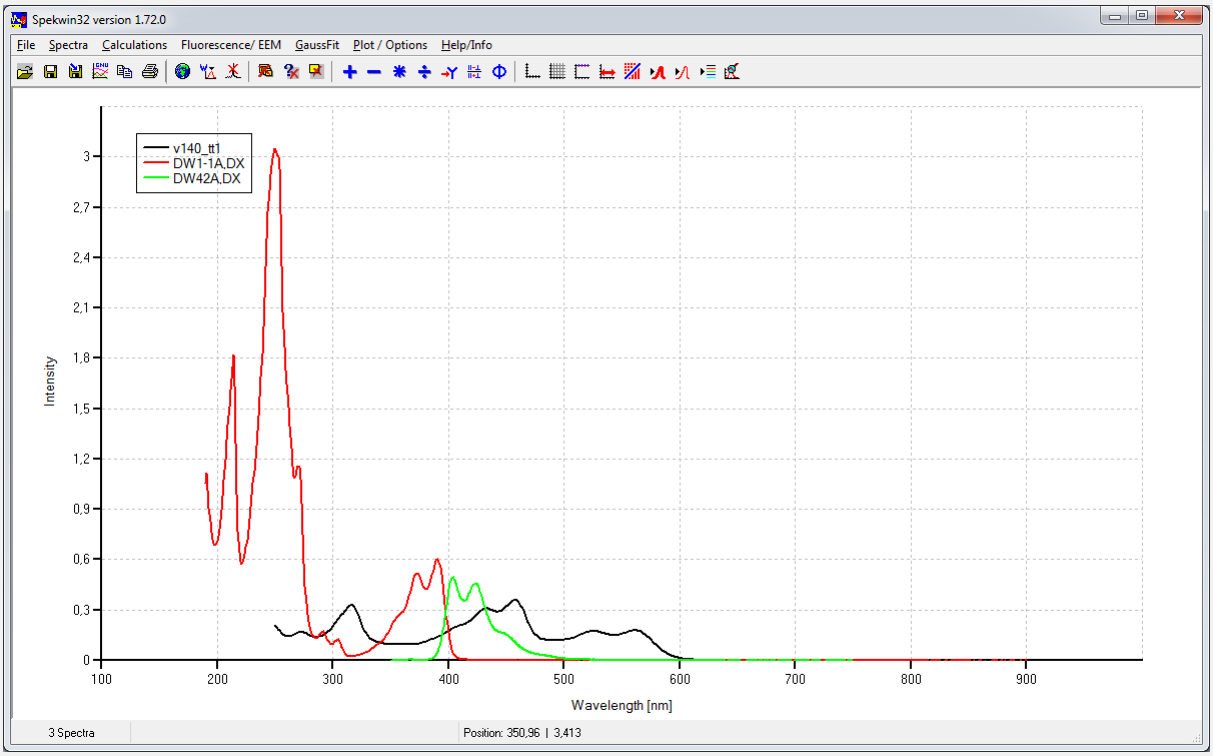
	A	B	C	D	E	F
494	741,062	0,99973	681	0,00021899	595,5	0,000472
495	742,062	0,99868	682	0,00032306	596	0,000564
496	743,062	0,99946	683	0,00025809	596,5	0,000664
497	744,062	0,99907	684	3,10E-05	597	0,00070396
498	745,062	0,99957	685	-5,01E-05	597,5	0,000648
499	746,062	1,0001	686	0,00050402	598	0,000528
500	747,063	0,99982	687	0,00023806	598,5	0,000412
501	748,063	0,9997	688	0,00016701	599	0,00037196
502	749,063	0,9993	689	0,00021207	599,5	0,000416
503	750,063	0,99973	690	0,00035	600	0,000476
504			691	0,00046408	600,5	0,000472
505			692	6,01E-05	601	0,00042396

- Copy the selected data with **CTRL**+**C** keys
- Now, switch to Spekwin32 (with keys **ALT**+T**ab**, if you like)
- And insert the data with **CTRL**+**V**
- That‘s all. Spectrum plot is already there! (in transmittance mode, because that‘s what the data was saying…)



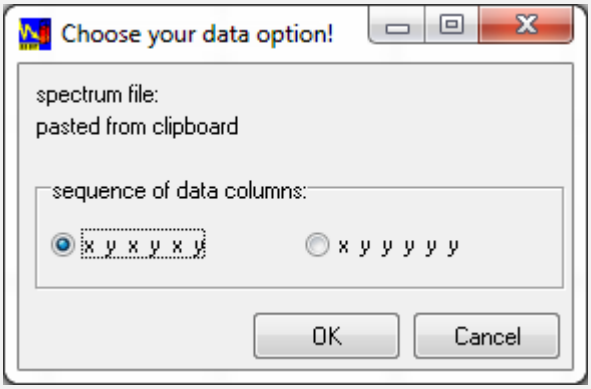
- Now let‘s do something more demanding:
- Select all six columns, make sure to get down enough to include all data of all six columns
- „Problem“ is: three spectra of
  - three different y axis types
  - three different x axis ranges
  - three different x axis spacings
- Did you ever try to create a common plot within EXCEL for such data??
- OK, just let‘s do!

Copy & Paste like explained and this is what you get:



- So, you just created a spectral plot with ease from those three files of different kind, and all necessary conversion were done automatically!
- Did you notice the little window in between?

- You can have individual x,y paired data or else y data columns with one shared x column.
- Spekwin32 works with both options.
- But you have to tell it,
- if at least three columns are present.



Now, go on and play and see what happens:

- Put the spectrum names above the x instead y columns
- Leave away the spectrum names
- Leave away the axis types (both or only one)
- Use other axis types (like Raman shift, Wavenumbers, Reflectance, %T, …)
- Try with x y y y y type data
- Open your data with a text editor, with MS Word, with Originlab Origin, whatever you want and copy&paste data

Got it?

Summary:

The „Paste Data from Clipboard“ function let‘s you create an instant spectral plot for virtually any data organized into x,y columns from any source.

It can be used as Excel enhancement for extremely fast visualization of spectral data.