

methanol, ammonia, water.xlsx

Q "Viscosity"

Home Layout Tables Charts SmartArt Formulas Data Review

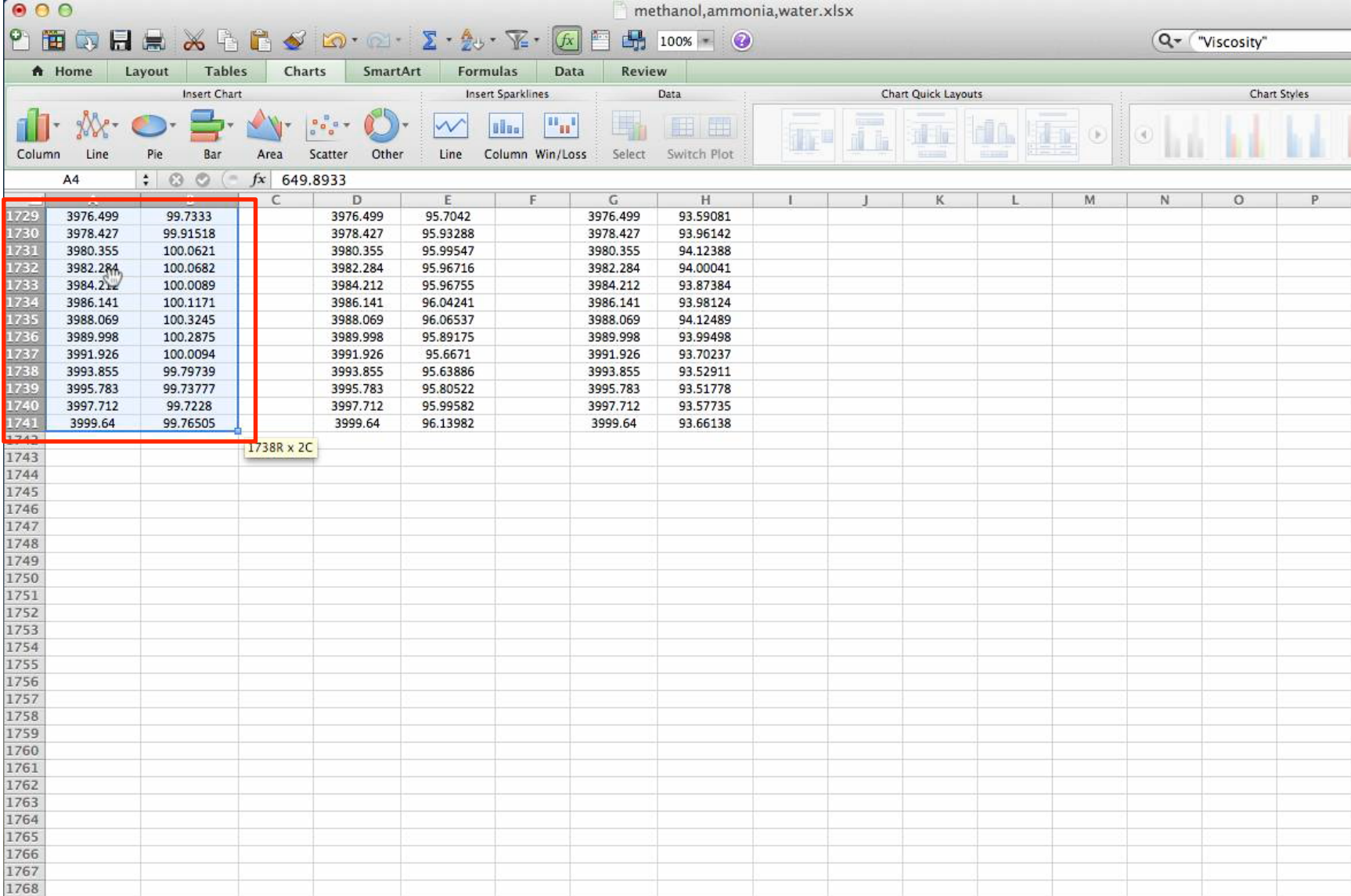
Insert Chart Insert Sparklines Data Chart Quick Layouts Chart Styles

Column Line Pie Bar Area Scatter Other Line Column Win/Loss Select Switch Plot

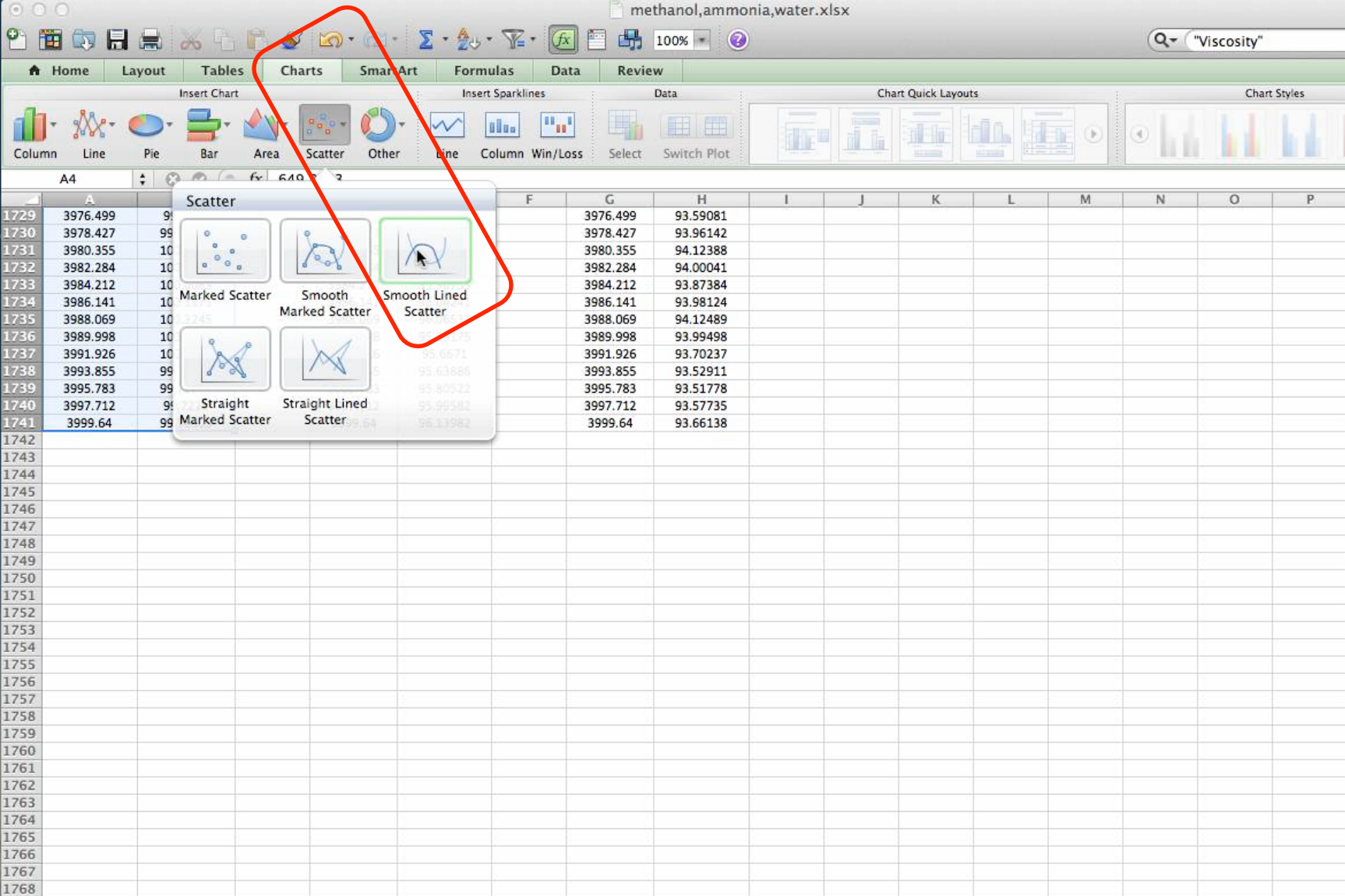
1R x 2C 649.8933

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	IR spectra of Methanol			IR spectra of NH3			IR spectra of H2O									
2	Wave Number	%Transmittance		Wave Number	%Transmittance		Wave Number	%Transmittance								
3	(cm ⁻¹)			(cm ⁻¹)			(cm ⁻¹)									
4	649.8933	67.01316		649.8933	36.14643		649.8933	33.30706								
5	651.8218	67.26133		651.8218	35.68167		651.8218	32.91391								
6	653.7502	67.07855		653.7502	35.0081		653.7502	32.95427								
7	655.6787	67.00452		655.6787	34.87323		655.6787	33.43892								
8	657.6072	67.44474		657.6072	35.5428		657.6072	33.79055								
9	659.5356	68.46865		659.5356	36.46855		659.5356	34.16638								
10	661.4641	69.66104		661.4641	37.2854		661.4641	35.02722								
11	663.3926	70.20745		663.3926	37.96226		663.3926	35.9567								
12	665.321	69.54869		665.321	38.05239		665.321	36.28067								
13	667.2495	68.29515		667.2495	37.12171		667.2495	35.95652								
14	669.178	68.37101		669.178	36.49408		669.178	35.51315								
15	671.1064	69.65686		671.1064	37.40126		671.1064	35.45639								
16	673.0349	70.58659		673.0349	38.66124		673.0349	35.92218								
17	674.9634	70.87532		674.9634	39.29173		674.9634	36.86336								
18	676.8918	70.84436		676.8918	39.20654		676.8918	37.78823								
19	678.8203	70.871		678.8203	38.76209		678.8203	38.32168								
20	680.7488	71.27828		680.7488	38.41033		680.7488	38.58323								
21	682.6772	71.77254		682.6772	38.43829		682.6772	38.49179								
22	684.6057	71.6698		684.6057	38.65821		684.6057	37.97049								
23	686.5342	71.12164		686.5342	38.71103		686.5342	37.59151								
24	688.4626	70.94073		688.4626	38.66319		688.4626	37.75473								
25	690.3911	71.1296		690.3911	38.856		690.3911	38.01763								
26	692.3196	71.26601		692.3196	39.5373		692.3196	38.08606								
27	694.248	71.71612		694.248	40.58514		694.248	38.3717								
28	696.1765	72.8077		696.1765	41.43882		696.1765	39.08917								
29	698.105	73.81134		698.105	41.67833		698.105	39.92738								
30	700.0334	73.88645		700.0334	41.57518		700.0334	40.52301								
31	701.9619	73.24559		701.9619	41.24701		701.9619	40.7065								
32	703.8904	72.75173		703.8904	40.32998		703.8904	40.54541								
33	705.8188	72.94682		705.8188	39.23542		705.8188	40.33952								
34	707.7473	73.69662		707.7473	39.08671		707.7473	40.30997								
35	709.6758	74.46078		709.6758	39.95293		709.6758	40.51417								
36	711.6042	74.99014		711.6042	40.77699		711.6042	40.98202								
37	713.5327	75.40279		713.5327	41.20399		713.5327	41.58019								
38	715.4612	75.69688		715.4612	41.62602		715.4612	41.9772								
39	717.3896	75.81773		717.3896	42.06058		717.3896	42.13819								
40	719.3181	75.96279		719.3181	42.22618		719.3181	42.31057								

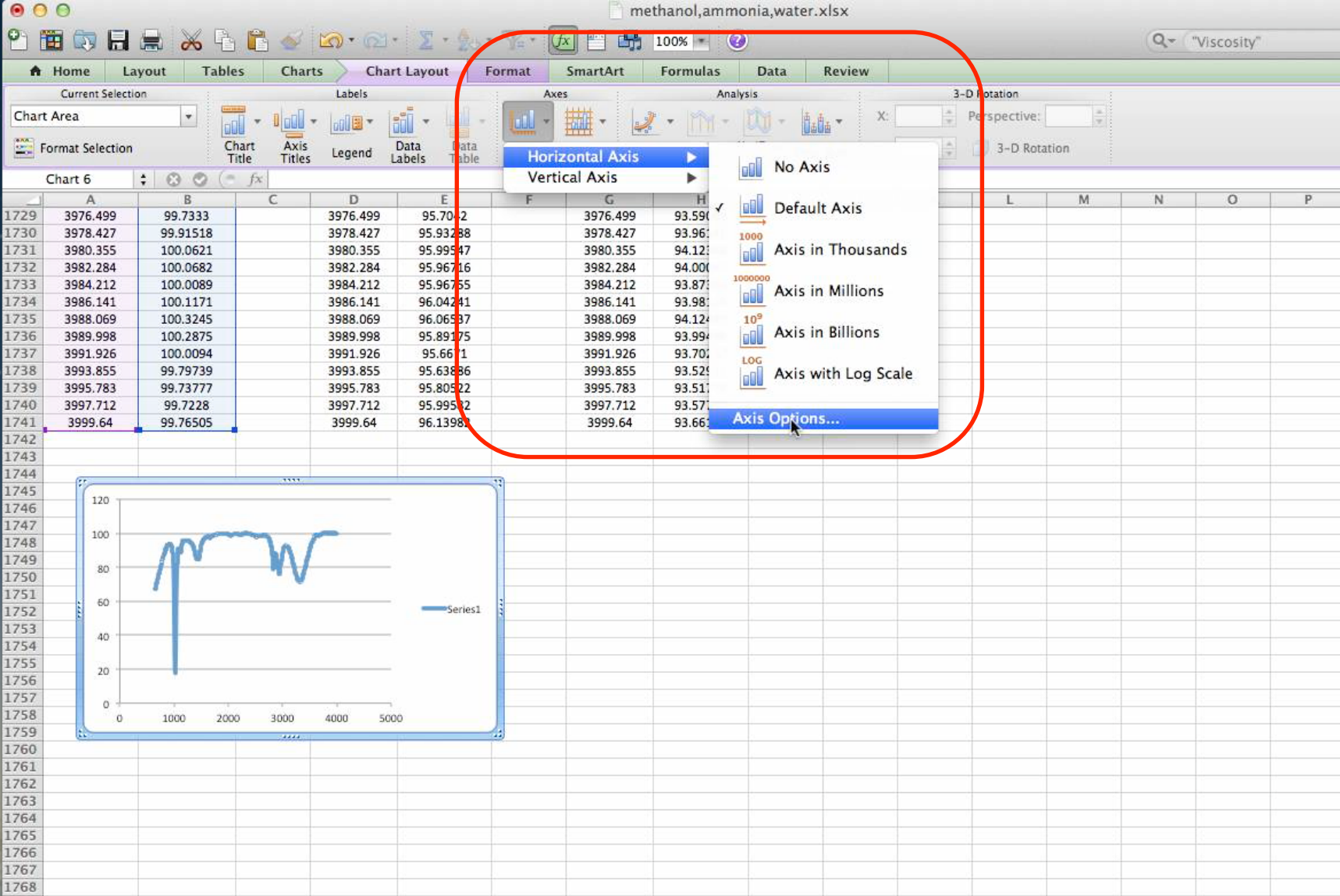
Given that you have over 1700 cells to highlight, let's do this efficiently fast. Start off by highlighting cells A4 and B4. While holding your "shift" key down, start tapping your "page down" key until you come to the very end of your data. You may have to use "arrow up" and "arrow down" keys to get it just right.



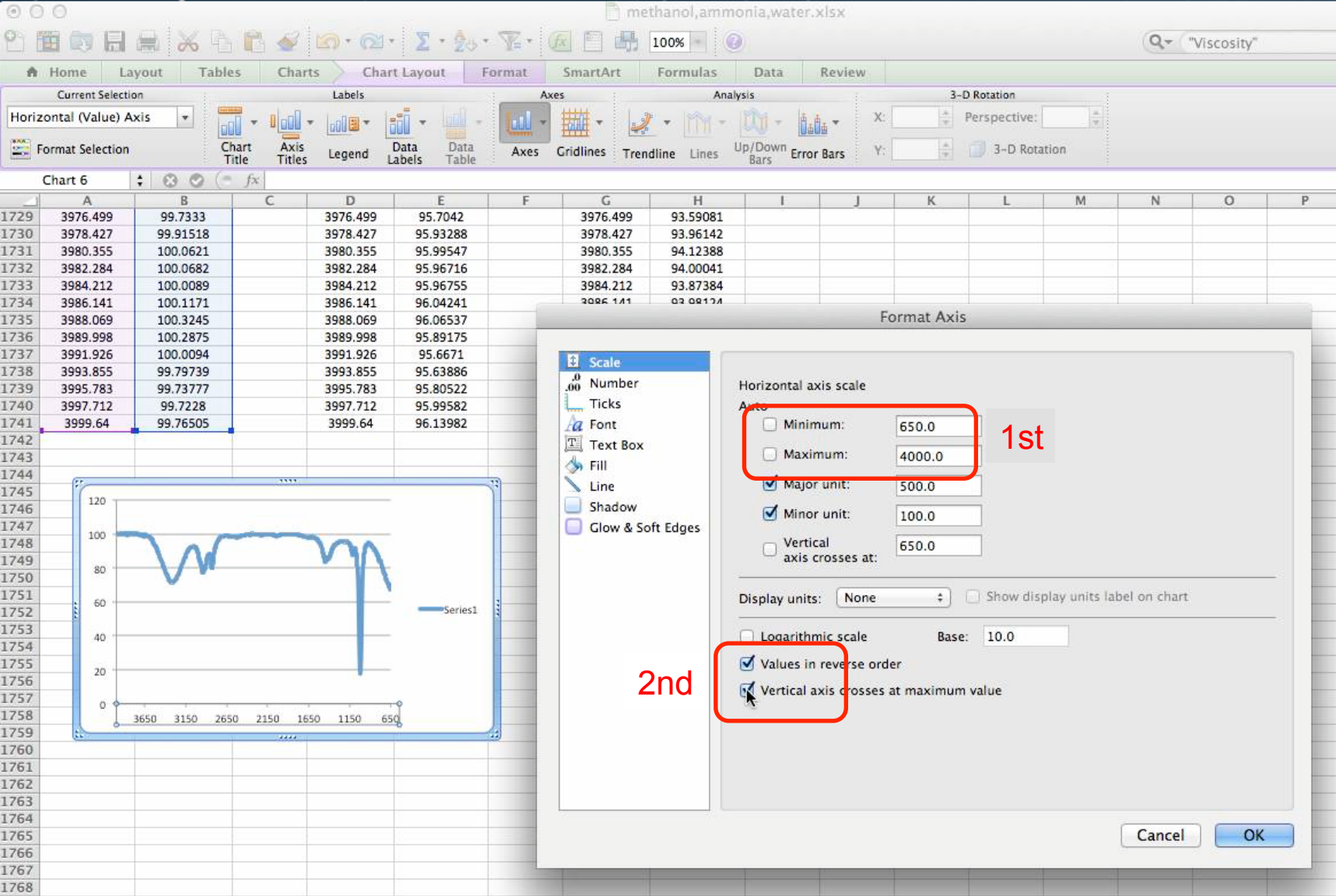
If you've done it correctly you should end up at the bottom of your data columns as shown here. If not, try again.



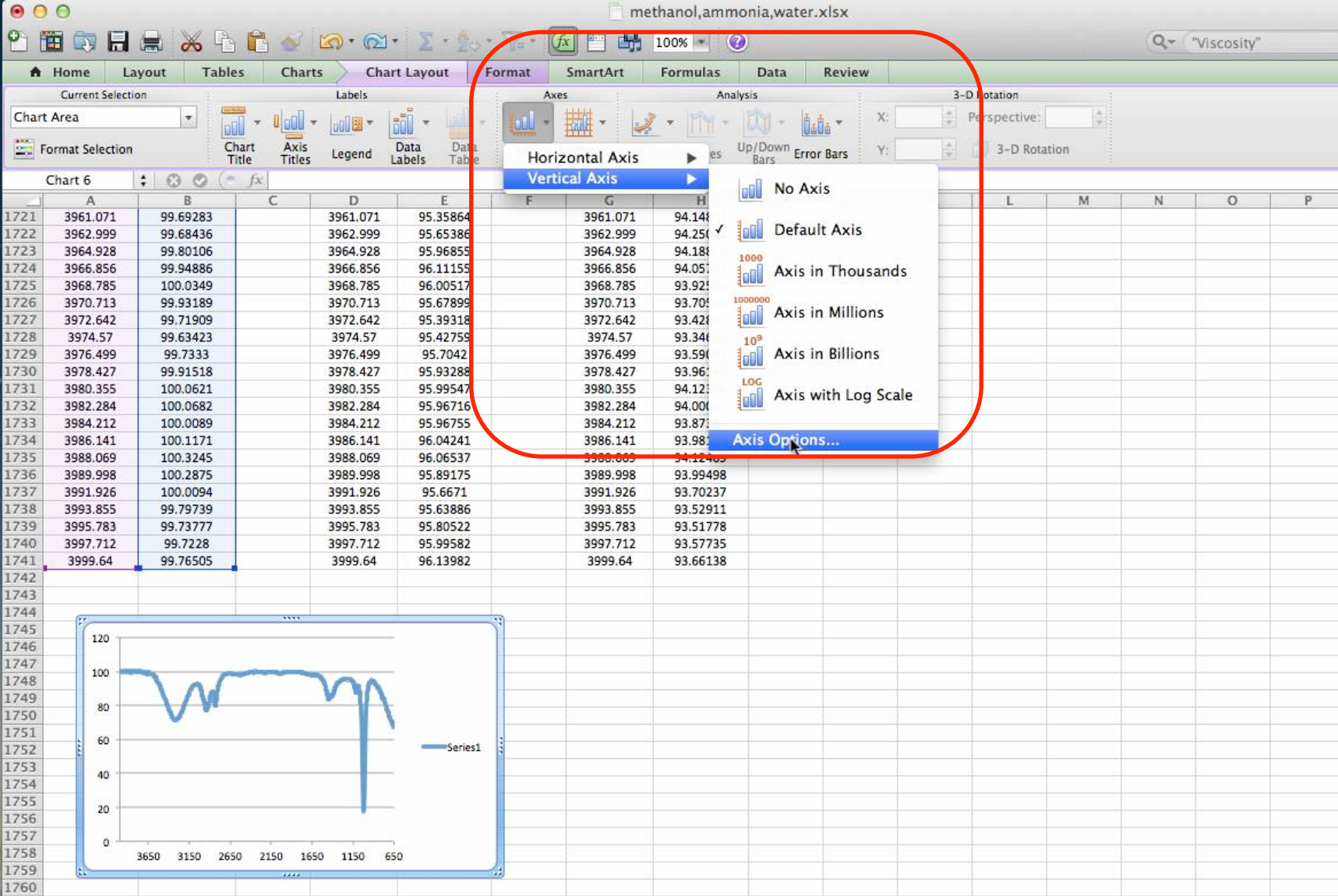
Insert a “Scatter” plot except in this case use the “Smooth Lined Scatter”. The next gallery will show you the wisdom of choosing this style versus “Marked Scatter”.



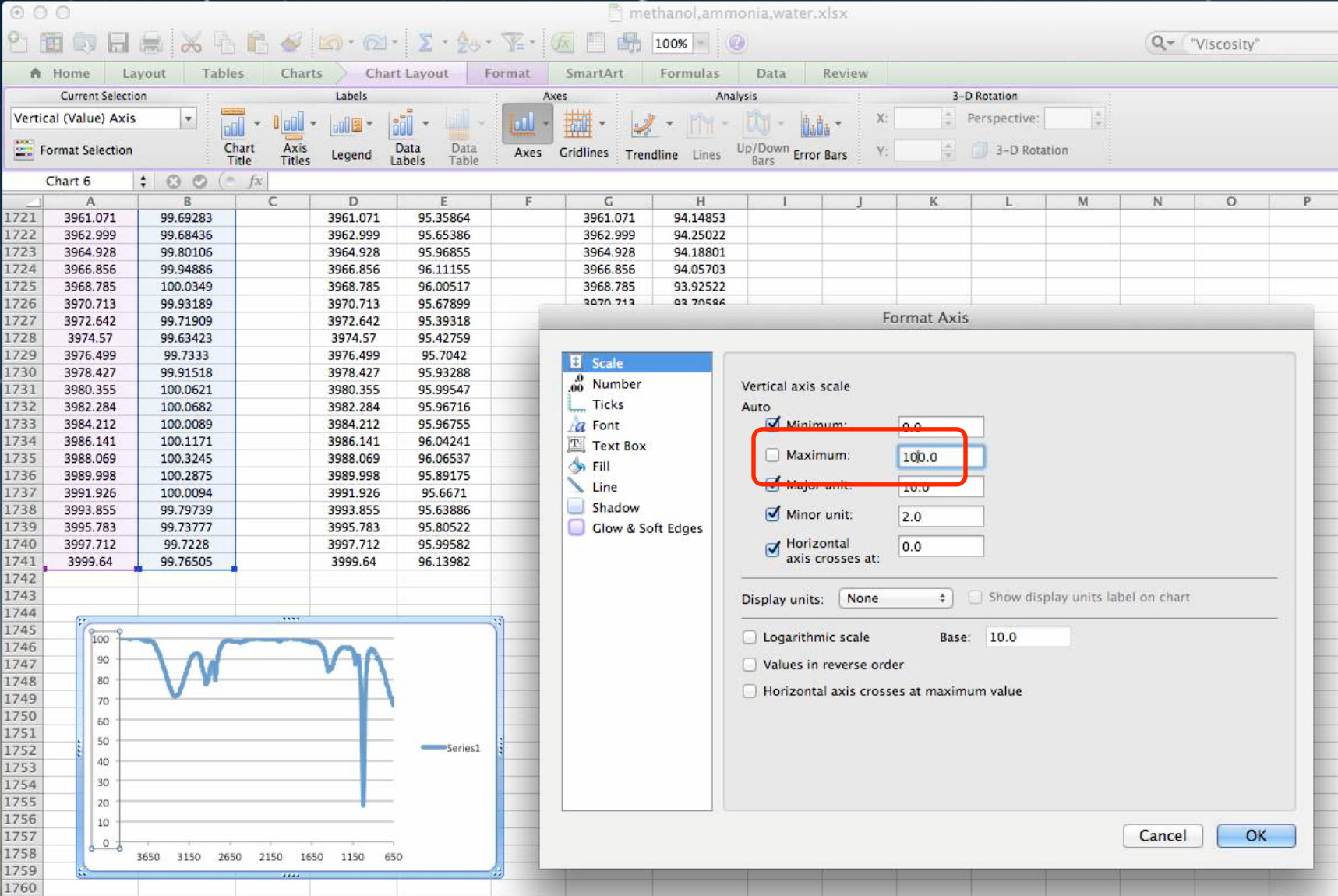
Smooth Line!!! Much better than 1700+ markers. Let's trim and reverse the x-axis. Under the "Chart Layout" thumbnail, find "Axes" drop down menu. Go to "Horizontal Axis" and then to "Axis Options..."



Looking at your x-data, the smallest value is about 650 and your maximum is about 4000. Make sure you have "Scale" highlighted. Type these in. Then put check marks in both the "values in reverse order" and "vertical axis crosses at maximum value". Notice how your plot changes. By tradition, IR Spectra are numbered from biggest wave number to smallest wave number.



Now trim the y-axis by going to the “Chart Layout” thumbnail. Find “Axes” drop down menu, then “Vertical Axis”, then “Axis Options...”.



Looking at our y-data, the maximum is about 100%. Make sure you have "Scale" highlighted, change the maximum to 100.