

Reflection Measurement: Using a Low Reflectivity Standard

When performing a reflection measurement using a low reflectivity standard, such as the STAN-SSL you will need to use the Non-unity Correction function in SpectraSuite, shown in *Figure 1*.

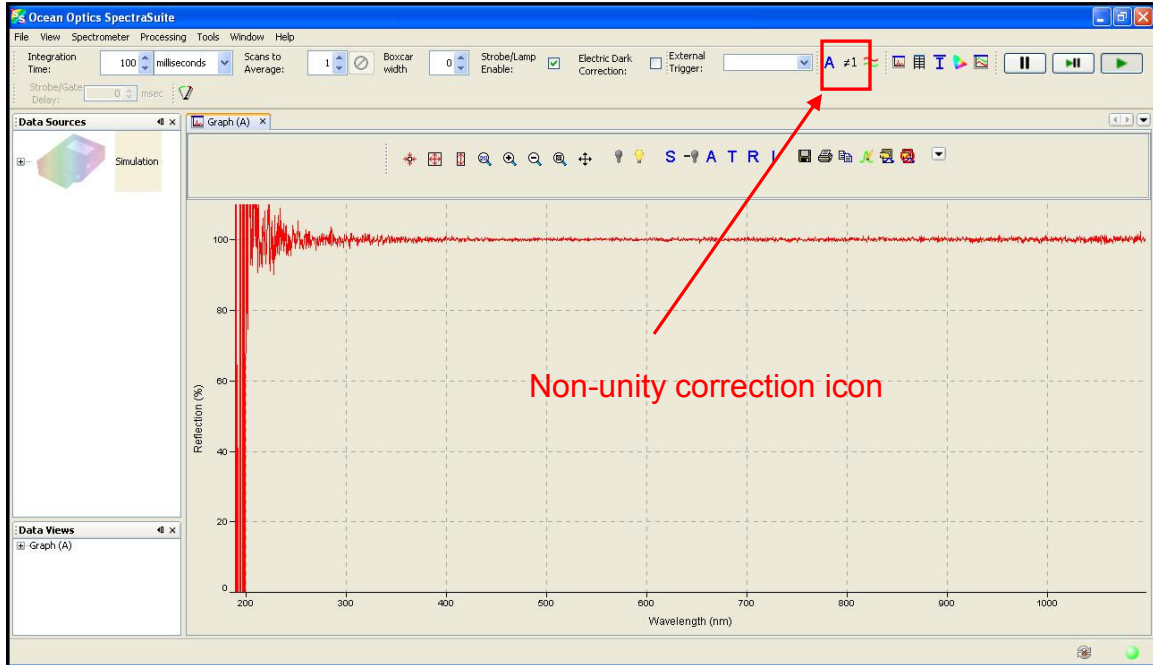


Figure 1. Non-unity correction function in SpectraSuite

Clicking on the Non-unity Correction icon brings up the Select Reference File dialog box, as shown in *Figure 2*. Click on browse and select the reference file that contains the percent reflection vs. wavelength data for the standard and click OK. After you have selected the reference file you should see a preview of the reference spectrum in the Preview window of the Select Reference File dialog box, as shown in *Figure 3*. Also you will see the reference file information in the Reference Information window as illustrated in *Figure 3*.

Before you loaded the reference file the percent reflection values in the spectrum graph were relative to the reference, that is, it treated the reference reflection response as 100% reflection at all wavelengths. Once you have loaded the reference file for the Non-unity correction all the percent reflection values for the reference spectrum set to the known reflectivities from the reference file. Subsequent measurement of a sample will show the absolute reflectivity of the sample.

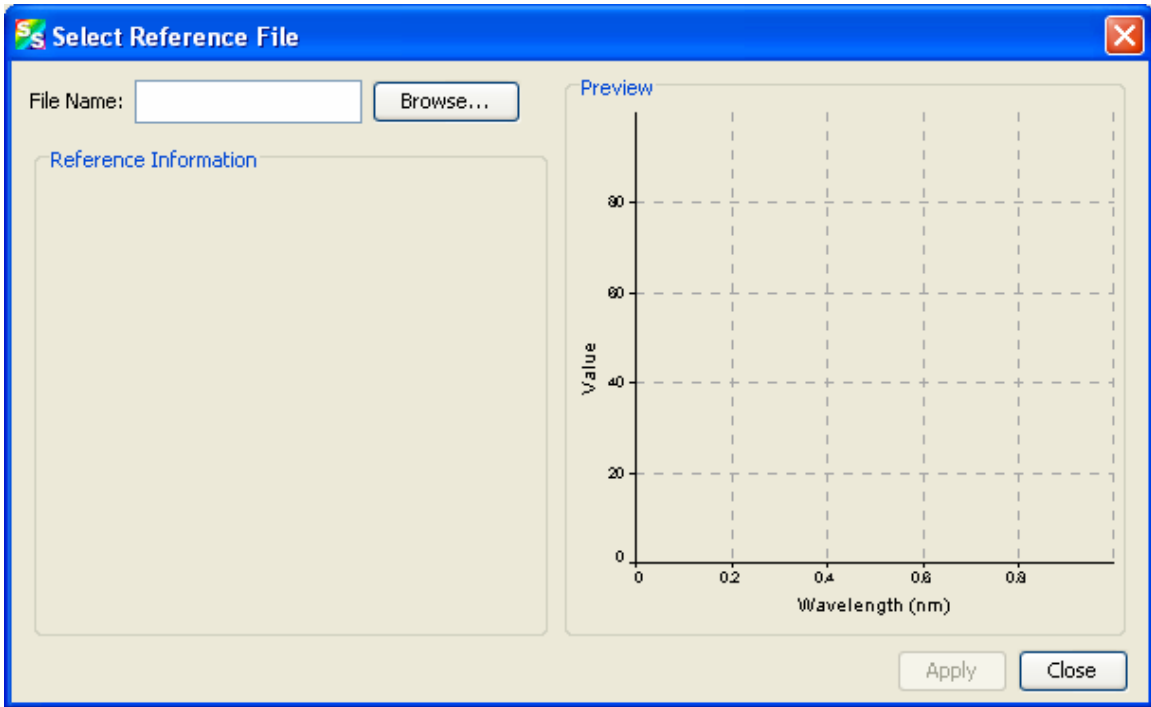


Figure 2. Select Reference File dialog box where you browse to the file that contains the reflection vs. wavelength data

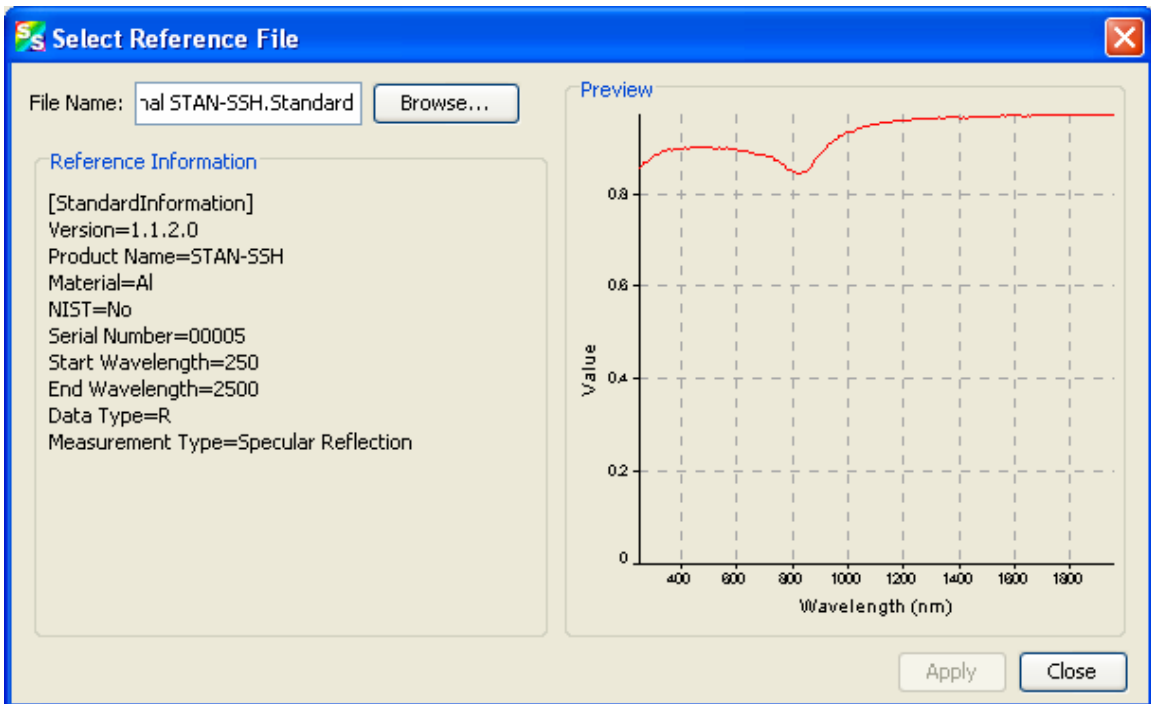


Figure 3. Select Reference File dialog box after loading a reference file (showing the reference file in the preview window)