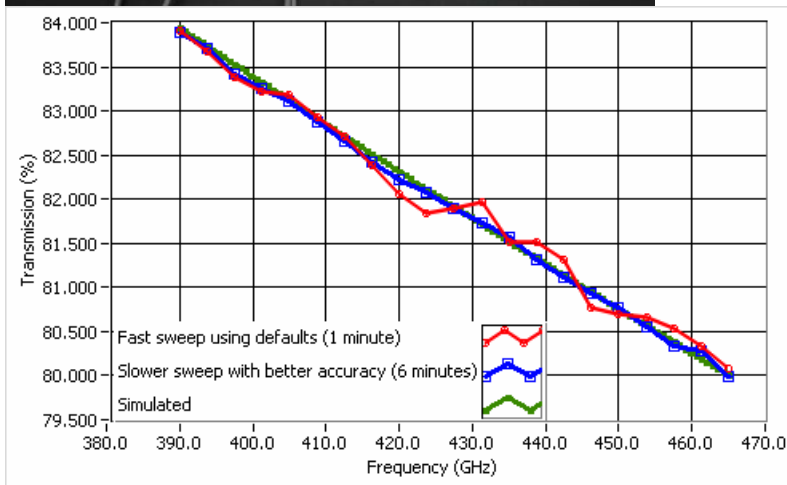
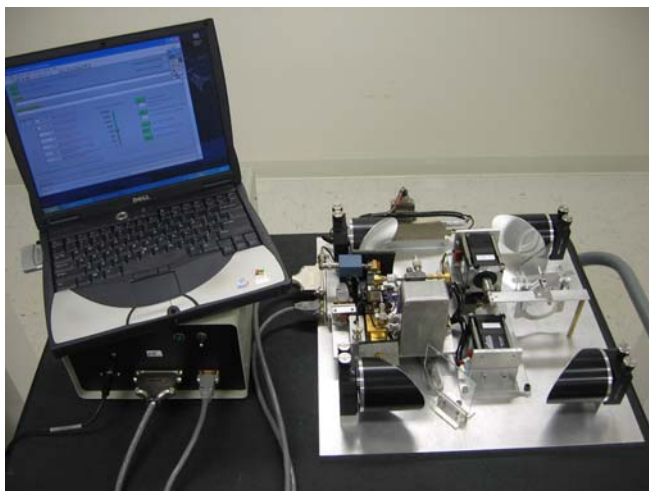


## *New Compact Portable Submillimeter-Wave Spectrometer*

*November 2006*

VDI developed a compact, lightweight, portable frequency domain Submillimeter-Wave Spectrometer. The system shown below operates from 390-465 GHz and is fully automated with complete control provided by a laptop computer through a USB connection. A user friendly program allows tradeoffs between measurement time, resolution, and accuracy. Thin, nearly transparent samples can be measured with  $\pm 0.3\%$  accuracy in roughly 1 second per point. The figure below shows the etalon effect of a 2 mil thick sample of mylar measured with the spectrometer in 1 minute and 6 minutes, both compared to theory.



***Please contact VDI today for additional details (434) 297-3257***