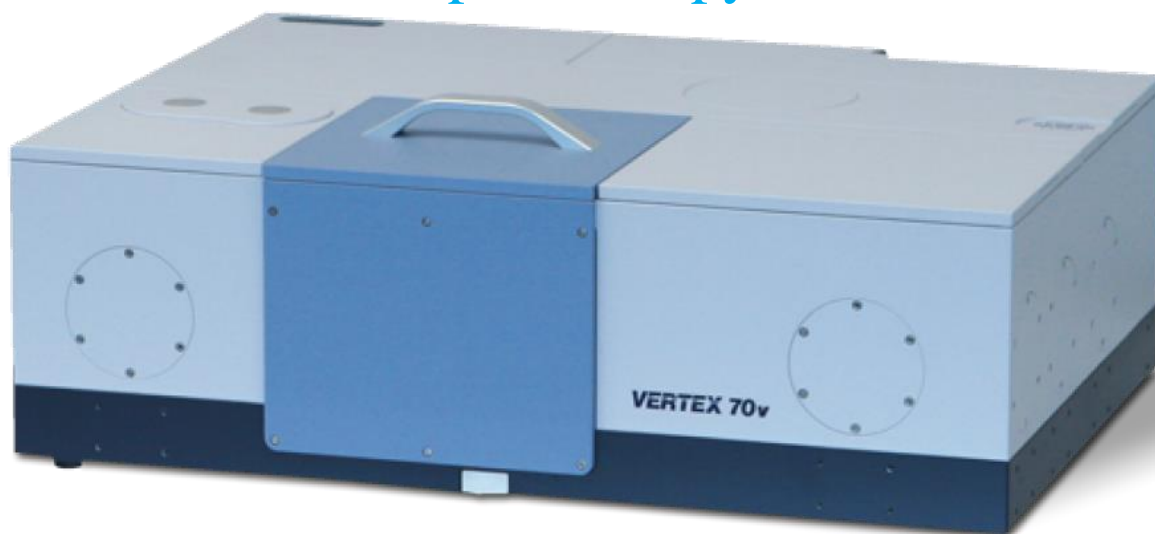


High Resolution Fourier Transform Infra-Red Spectroscopy



High Resolution Fourier Transform Infra-Red Spectroscopy at Center for Nanoscience & Nanotechnology JMI

Fourier Transform Infra-Red Spectroscopy has interferometer which produces a unique type of signal that has all of the infrared frequencies “encoded” into it. The signal can be measured very quickly, usually on the order of one second or so. In infrared spectroscopy, IR radiation is passed through a sample. Some of the infrared radiation is absorbed by the sample and some of it is transmitted. The resulting spectrum represents the molecular absorption and transmission, creating a molecular fingerprint of the sample. This makes infrared spectroscopy useful to identify unknown materials, determine the quality or consistency of a sample and the amount of components in a mixture.

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