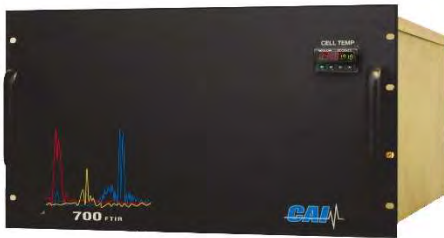


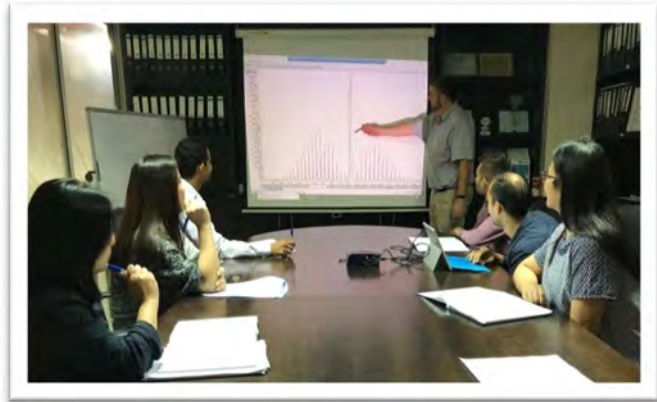
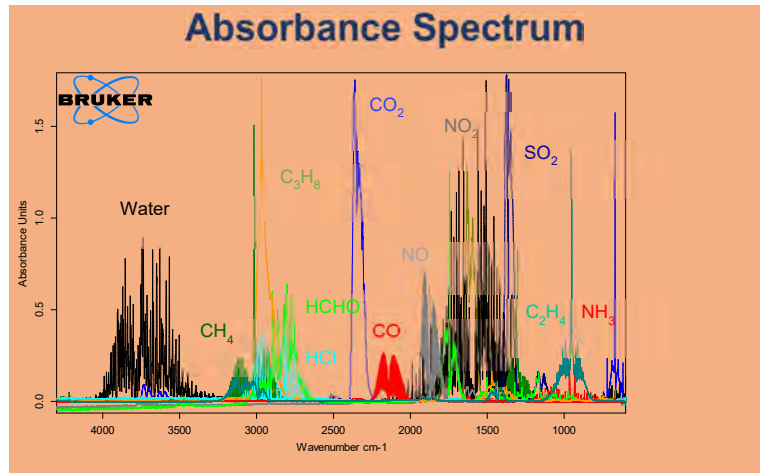
Advancing Technique in Gas Analysis

BSTG invested in the FTIR gas analyzer from California Analytical Instrument, CAI USA. This serves as an improvement on the laboratory analysis of EPA-Protocol Gases (Stack Emission Monitoring Gases). With this new analysis technique, the highest accuracy and minimal uncertainties of calibration mixture measurement are achieved. This new analyzer measures precise value on each gas from a multicomponent mixture without interference using the unique gas spectra.



FTIR - Fourier Transform Infrared Spectroscopy Gas Analysis

Gases are measured using each unique infrared spectra of each gas. Each spectrum is collected by a prism or IR filter. It allows the measurement of a single wavelength band at a given time. An optical modulator, called interferometer allows the absorbance information to be measured. The concentration of the gas is calculated using the measured spectrum.



During the commissioning of the new analyzer, a four-day training program was conducted. The training covers the introduction to FTIR, the CAI 700 FTIR hardware functions and software familiarization, Identifying spectrum and absorbance, Quantification of the Spectra and the Actual Method Development in CAI 700 FTIR.

It was conducted by Dr. Kevin Ramazan from CAI USA and participated by BSTG personnel.

