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7ᵗʰ International Conference and Exhibition on

Analytical & Bioanalytical Techniques

September 28-30, 2016   Orlando, USA

Analysis of Raman scattering signals for chemicals by using deep UV laser

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A Raman spectroscopy is a spectroscopic technique based on in elastically scattered light and is widely used for the analysis of materials. The Raman spectrometer is very effective in detecting liquid chemicals on surfaces on the move. Due to advanced ultraviolet light source technology, the Raman spectrometer based on ultraviolet laser has been actively developed, recently. In case of using below 250 nm wavelength as a deep UV light source, it is easy to measure the Raman spectra by spectrally separating the Raman and the fluorescence area. In this research, we describe about analysis of Raman spectra for chemicals on various deep UV wavelengths and compared with Raman spectra according to laser wavelengths.

Biography

Young Jin Koh has completed her graduation from Department of Chemistry, Duksung Women's University and Master's degree from Department of Analytical Chemistry, Seoul National University in South Korea. Presently, she is a Researcher at Agency for Defense Development in South Korea.

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J Anal Bioanal Tech 2016
ISSN: 2155-9872 JABT, an open access journal

Analytica 2016
September 28-30, 2016

Volume 7, Issue 5(Suppl)

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