

Abstract Submitted
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Raman Response of Acetonitrile and Cyclohexane in the Deep Ultra-Violet CHARLES MANKA, Research Support Instruments, Lanham, MD, ROBERT LUNSFORD, Research Support Instruments, Lanham, MD, SERGEI NIKITIN, NAGAPRATIMA KUNAPAREDDY, Research Support Instruments, Lanham, MD — We present the Raman spectral response of the common solvents Acetonitrile and Cyclohexane. These are transparent liquids that provide excellent Raman spectra useful for calibration both in wavenumber and cross section of particular lines. Spectra were obtained with the NRL SWOrRD system which provided selected excitation wavelengths from 210 to 300 nm with approximately 2 nm separation. Resonant and preresonant response is analyzed with respect to electronic transitions in the vacuum ultra-violet.

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