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We investigated intensity and temperature oscillations using an extracted slice of a selected loop taken from data on four extreme ultraviolet (EUV) channels recorded by SDO's AIA instrument. We applied data of AR11092. In this research we used different methods to analyze the data. We estimated the physical parameters like period, damping time, and damping quality factor for the intensity oscillation in this slice. We calculated the Cross-correlation coefficients of the intensity ratios of two separate wavelengths, mean temperature, temperature uncertainty, mean dominant period of the loop's temperature, phase speed and sound speed and phase differences values between the intensity and the temperature oscillations. Observations and data analysis showed standing slow-mode waves in this loop.