Exercise No. 2 – Vibration

- 1. Find the fundamental band of CO and plot its spectrum.
 - Determine the band center frequency \hat{v} from your plot.
 - There is some "pollution" in the P-branch that comes from lines of ¹³CO. Recalculate the spectrum for only the main isotopologue.
- 2. Explore the spectrum of either H₂O or CO₂. Can you find the different vibration bands?