

• We compared 22 of our objects to synthetic spectra created from the atmospheric models of Saumon & Marley 2008. We fit both the whole K-band (2.05-2.35 μ m) and the CO band (2.27-2.35 μ m), to obtain estimates of T_{eff}, logg, vsini, and f_{sed} for each of our objects. •K-band fits for five of our objects are shown above. The objects are plotted in black and the best fitting model for each object is shown in cyan, along with the parameters of the best fitting model. • We find our T_{eff} values are high when compared to those calculated using bolometric luminosities by Filippazzo et al 2015 but agree well with those found using the same models at moderate resolution by <u>Cushing et al 2008</u> •We find systematic differences in the values for T_{eff}, logg, vsini, and f_{sed} obtained by our K-band and CO band fits. We are still investigating the cause of this.

