HCN, core, $T_{rot} = 50.0 \text{ K}$, $N_{tot} = 5.1 \text{e} + 12 \text{ cm}^{-2}$, $V_{cen} = 40.0 \text{ km s}^{-1}$, $V_{disp} = 1.5 \text{ km s}^{-1}$ 2.5 2.5 $E_U = 4.25 \text{ K}$ $E_U = 25.52 \text{ K}$ $\log_{10}(A_{i,j}) = -4.62$ $\log_{10}(A_{i,j}) = -3.08$ 2.0 2.0 1.5 1.5

