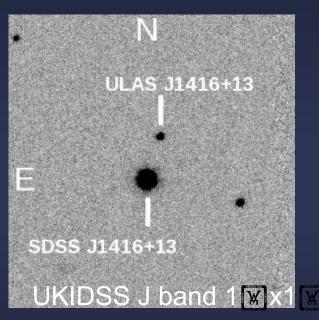
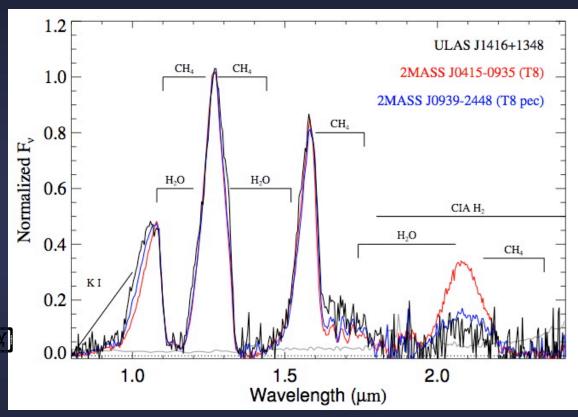
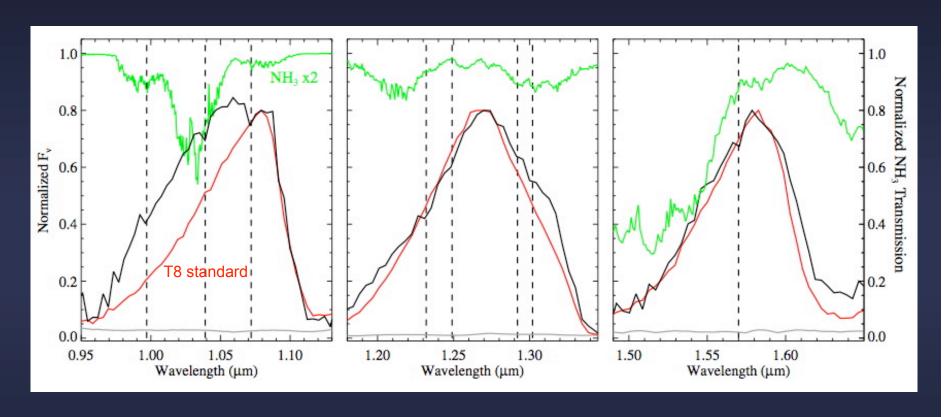
- Burgasser et al. ApJ 2010 (accepted Feb 22)
- Very low temperature brown dwarf candidate found as companion to L6 dwarf in UKIDSS data (Scholz 2010, Burningham *et al.* 2010, Bowler *et al.* 2010)
- Possible Y dwarf? (*J*=17.4, *H*=17.6, *K*=18.9)
 - Spectrum (R~100) obtained with SpeX (Jan 23)



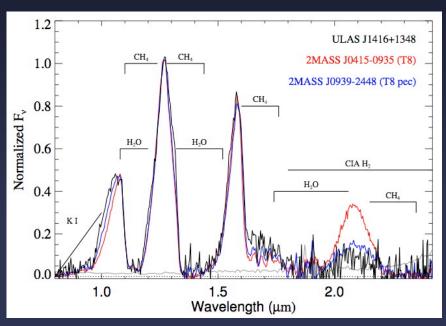


Unusual broadened Y band and suppressed K band peaks Best fit: T7.5, high surface gravity, subsolar metal, T_{eff} 600 K



Signs of NH₃ absorption? 1.072, 1.232, and 1.057 m also seen in Jupiter (IRTF Spectral Library)

IRTF: 6000 s R ~ 90-210 (Burgasser *et al*. 2010)



Subaru: 2x 3000 s R ~ 100 (Burningham *et al*. 2010)

