

Figure S1:  $\ln(^{206}\text{Pb}/^{238}\text{U})$  vs.  $\ln(^{238}\text{U}^{16}\text{O}_2/^{238}\text{U})$  for both the M6 monazite and the reference monazite USGS 44069 in SIMS U-Th-Pb sessions 1.