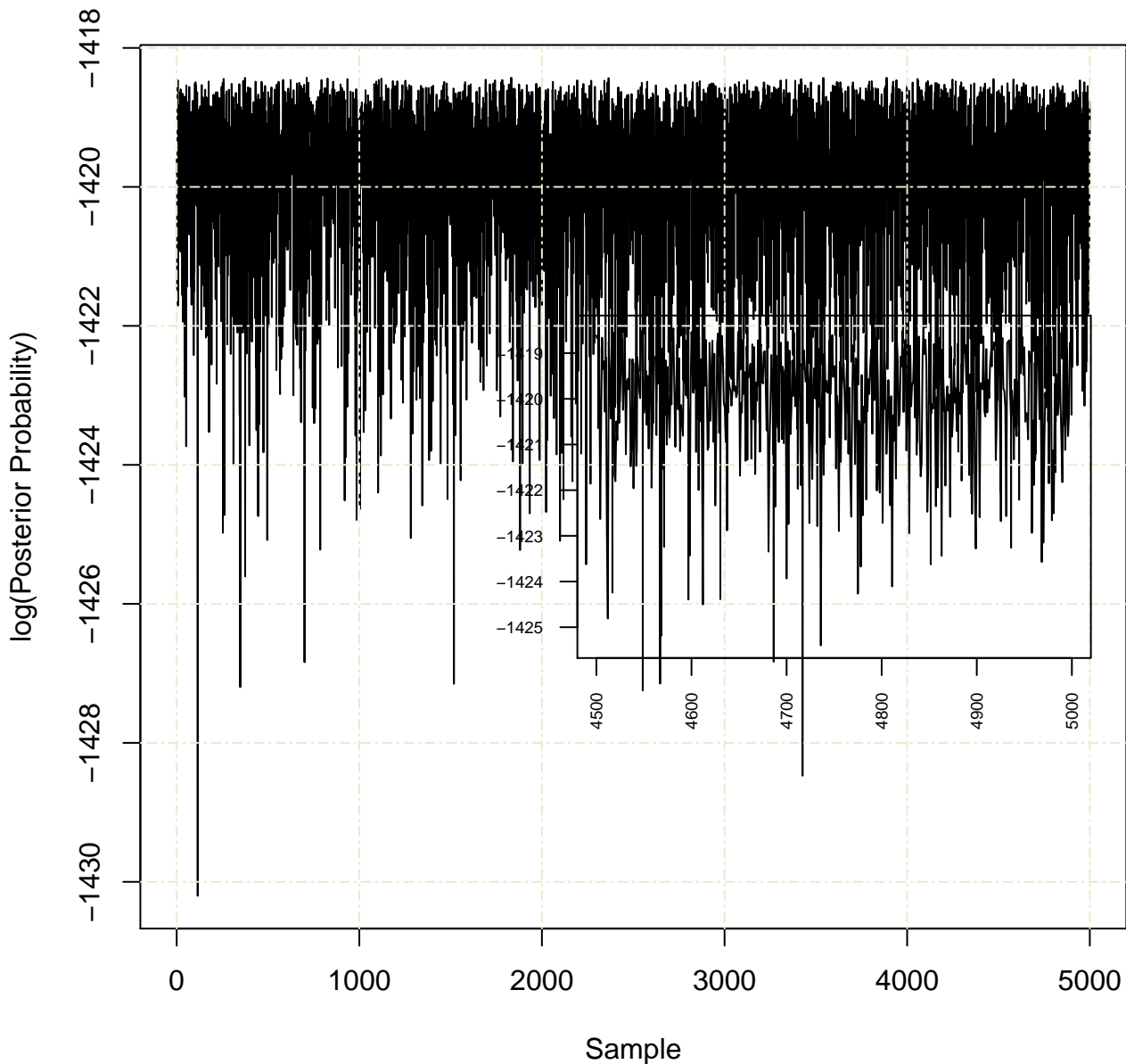**log(Posterior Probability): −1419.99145770212**

Trace of the Expected value of ϕ