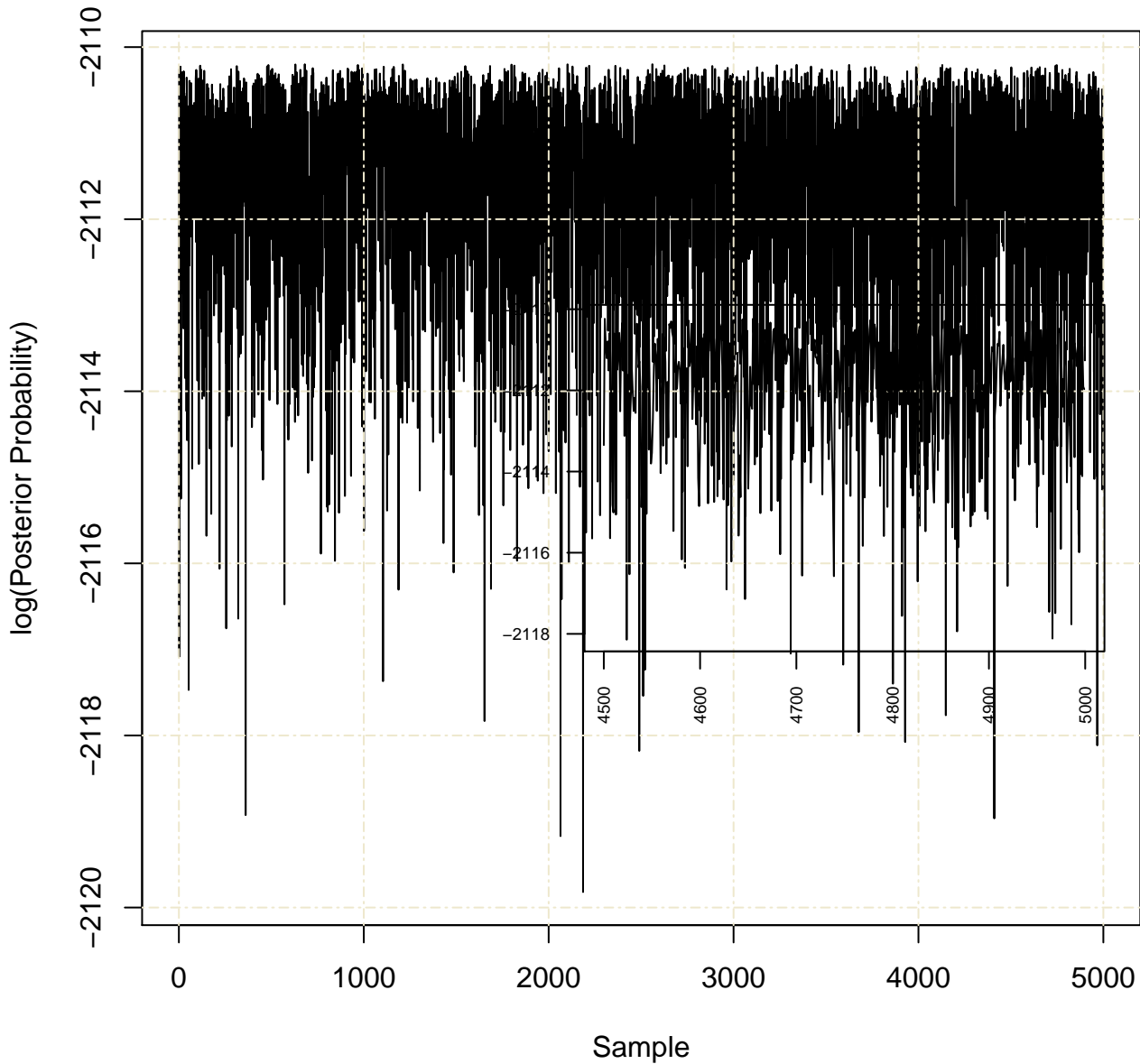**log(Posterior Probability): −2111.76528530625**

Trace of the Expected value of ϕ