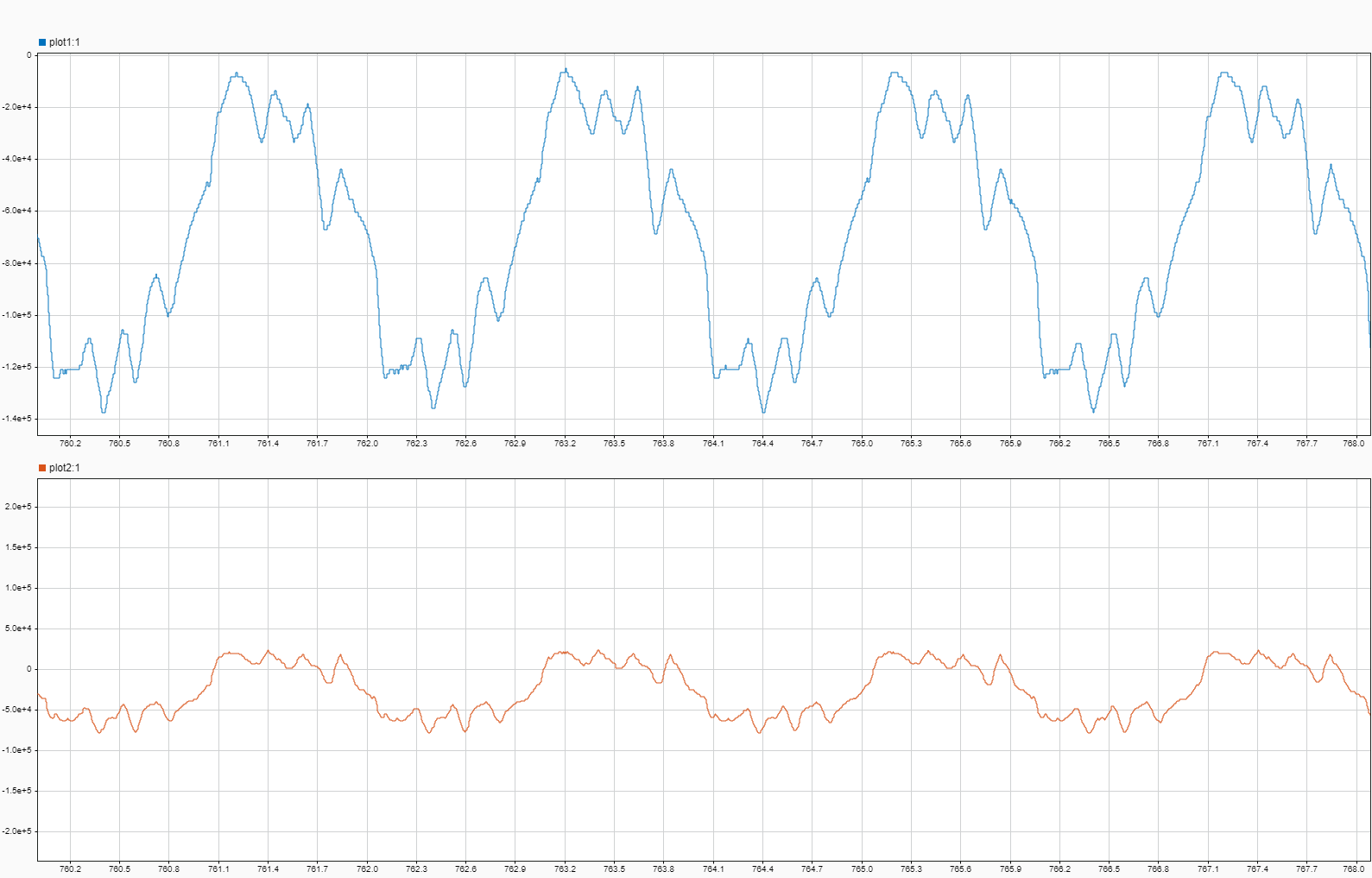
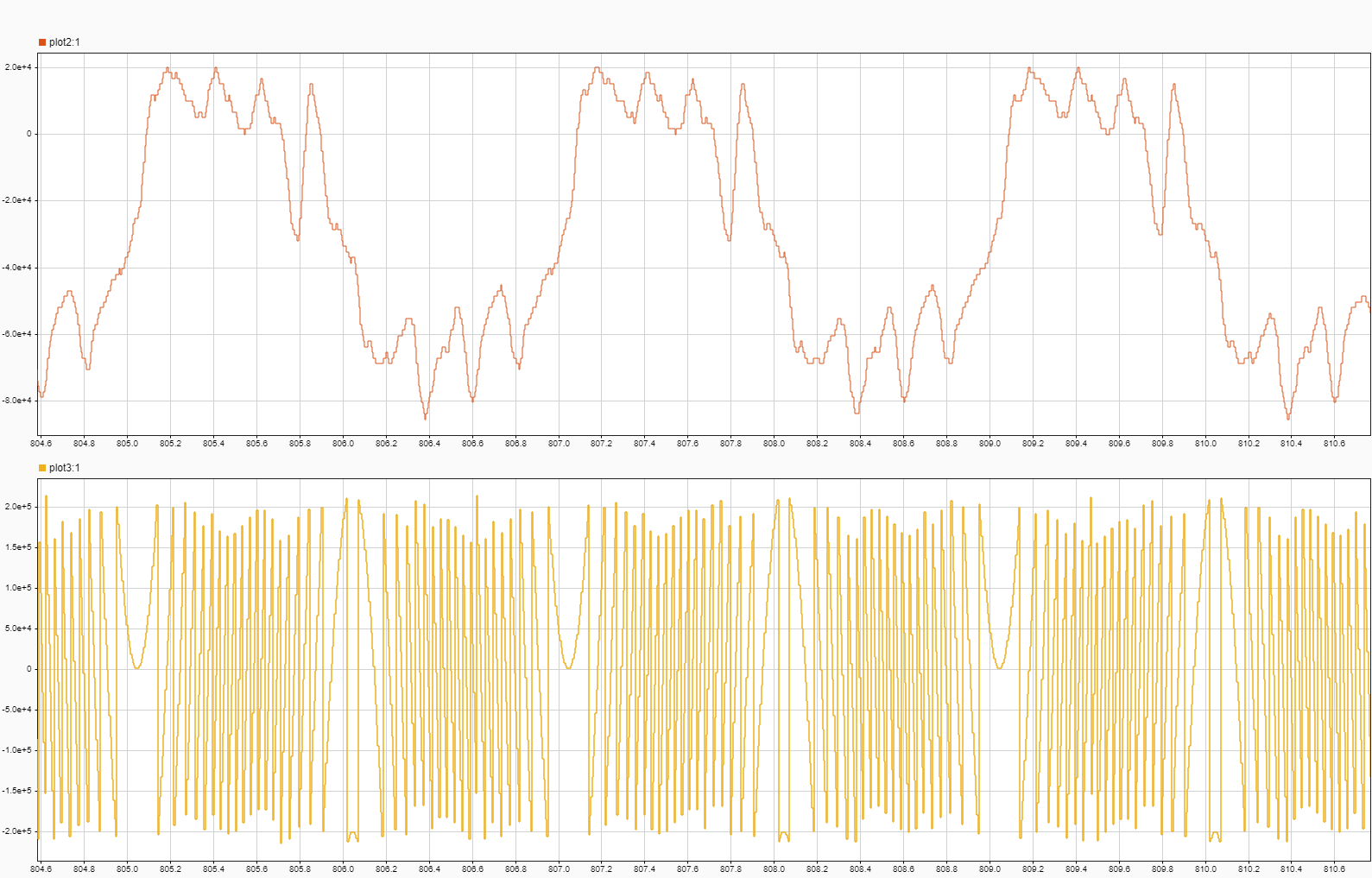
Part1

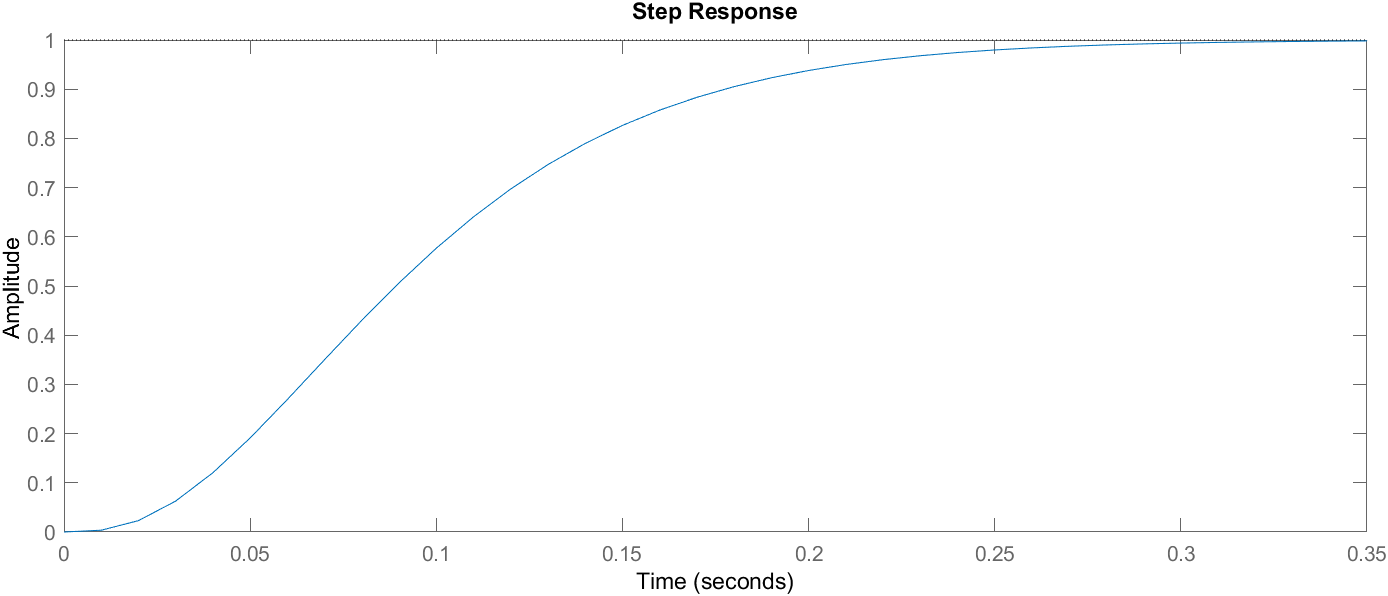
Error1, error2



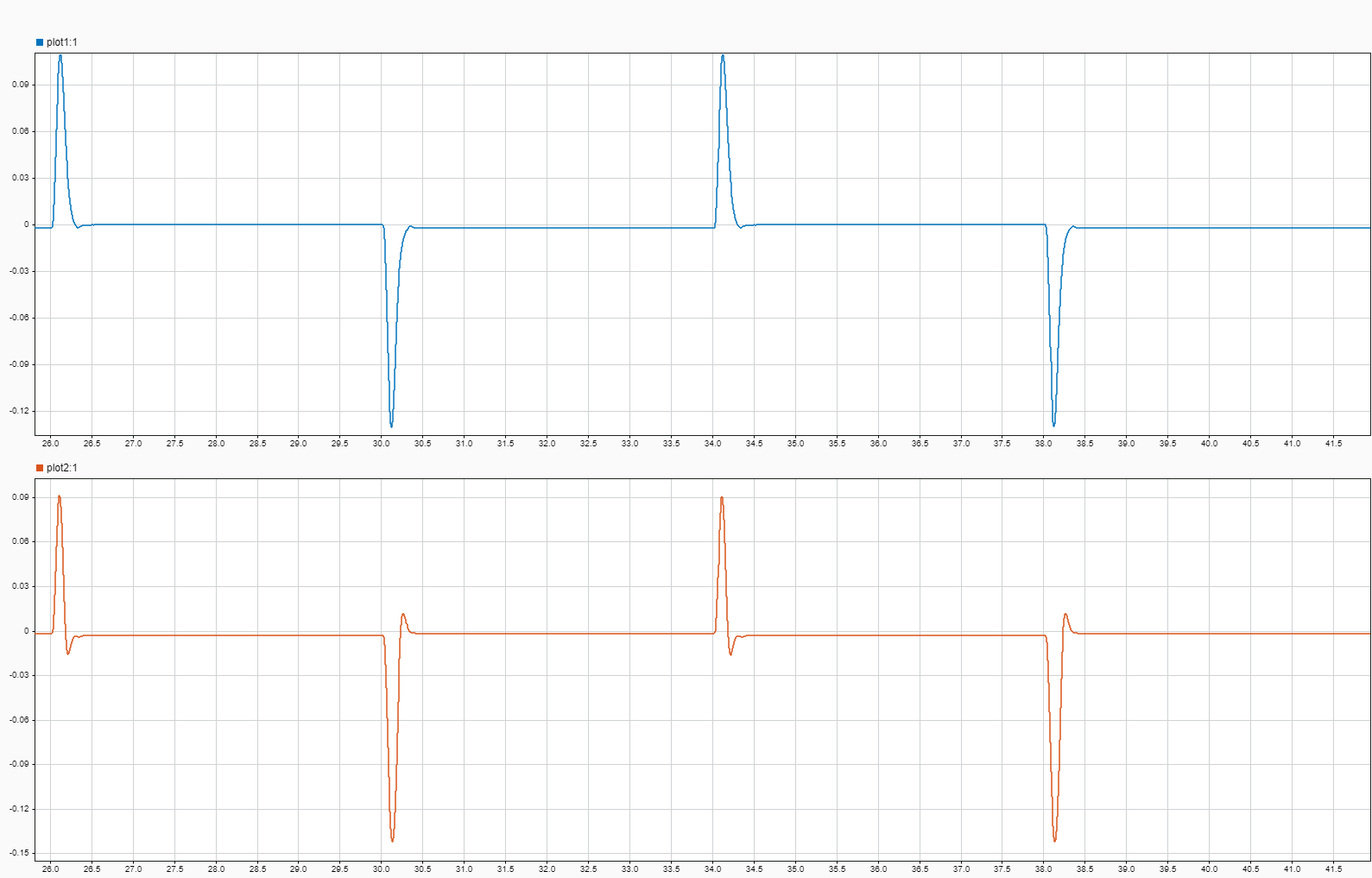
Errro2, error3



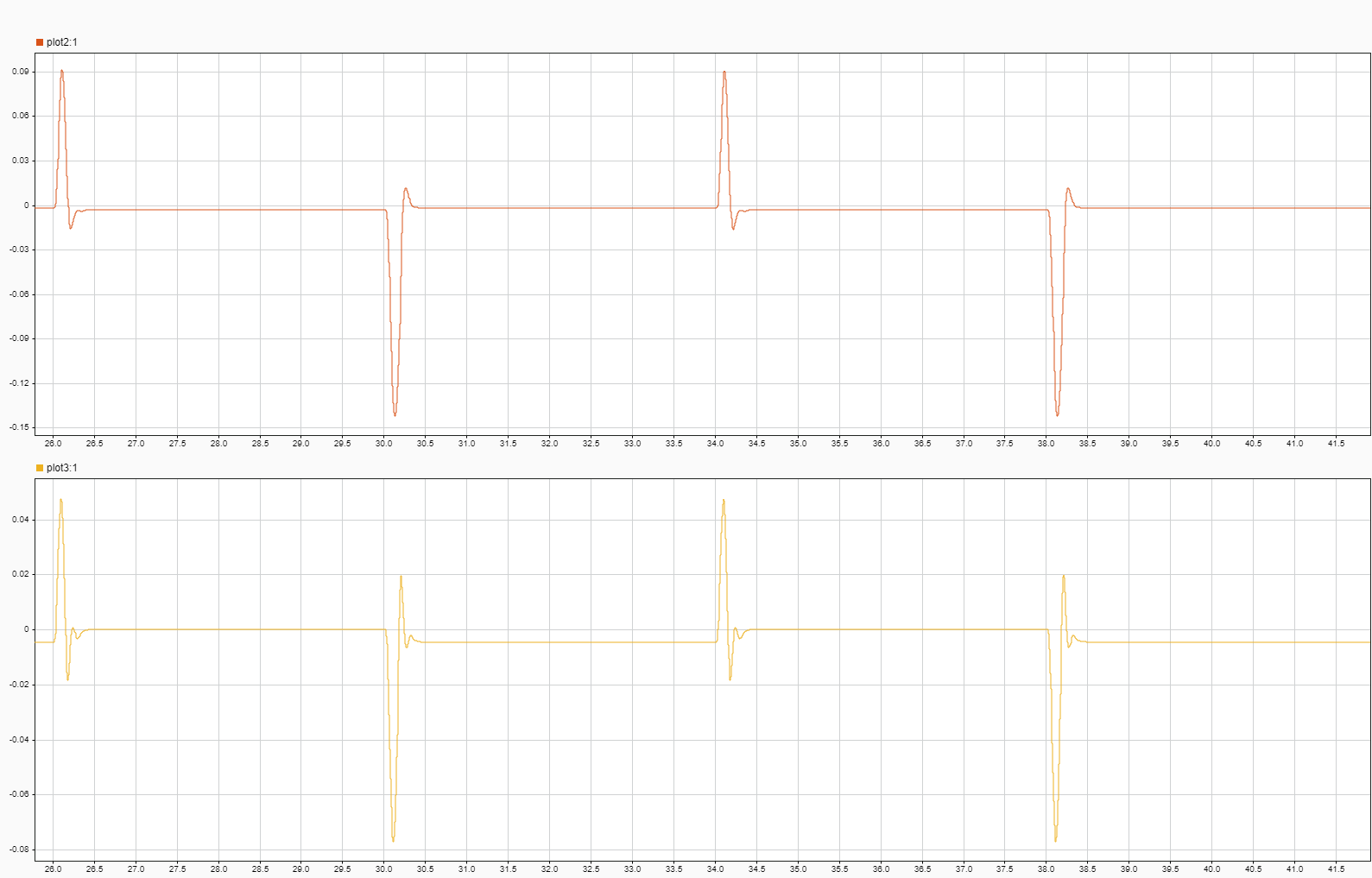
Part2 step



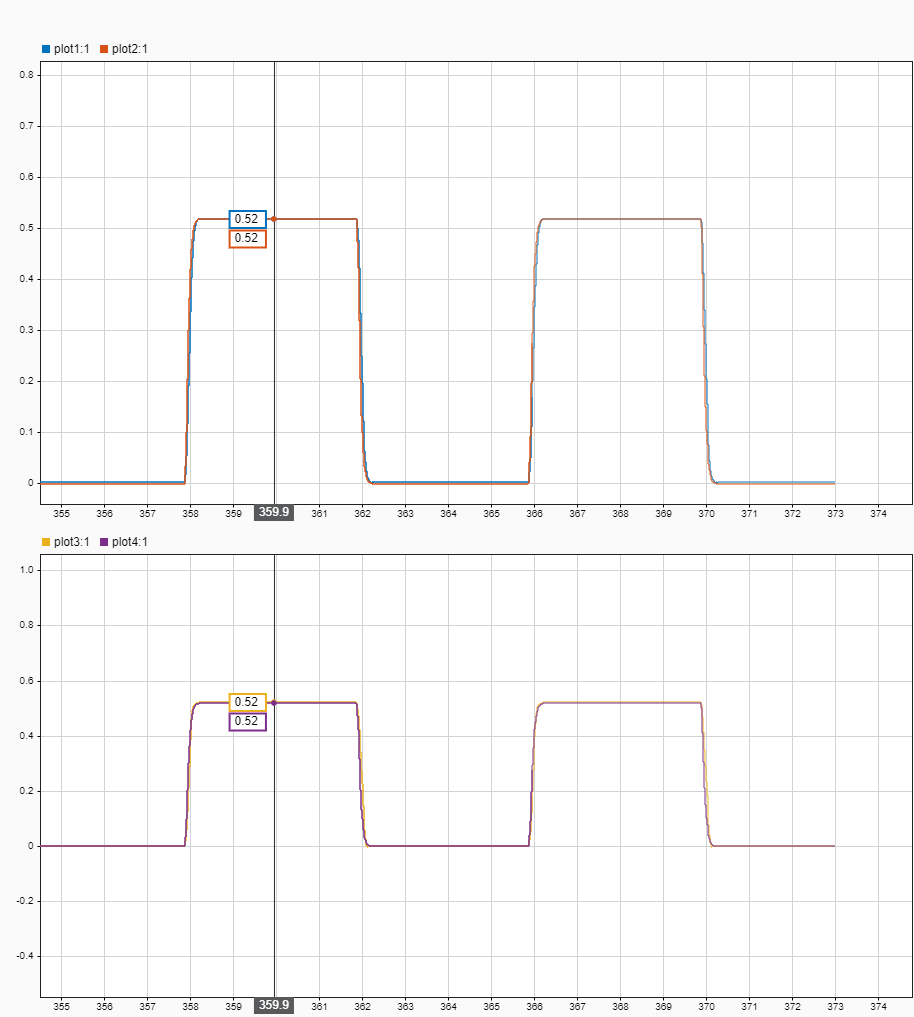
Error1, error2



Error2, error3

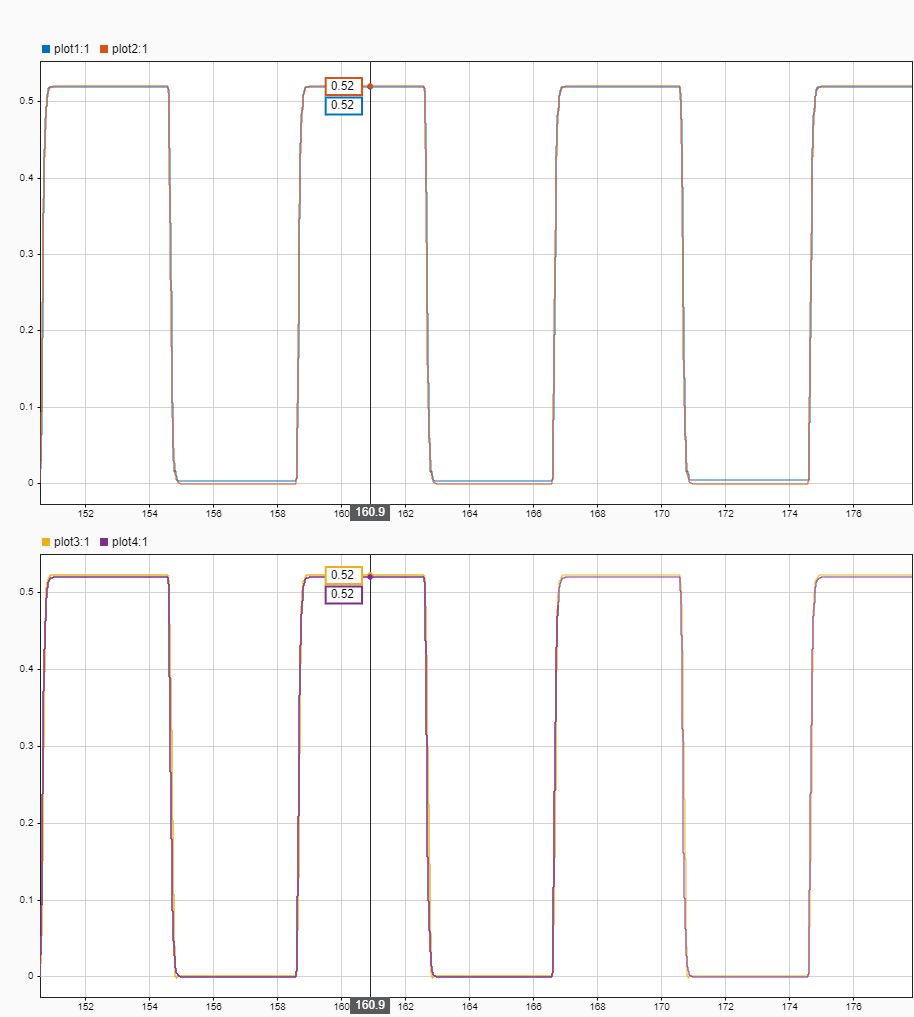


Part2 theta1 theta2

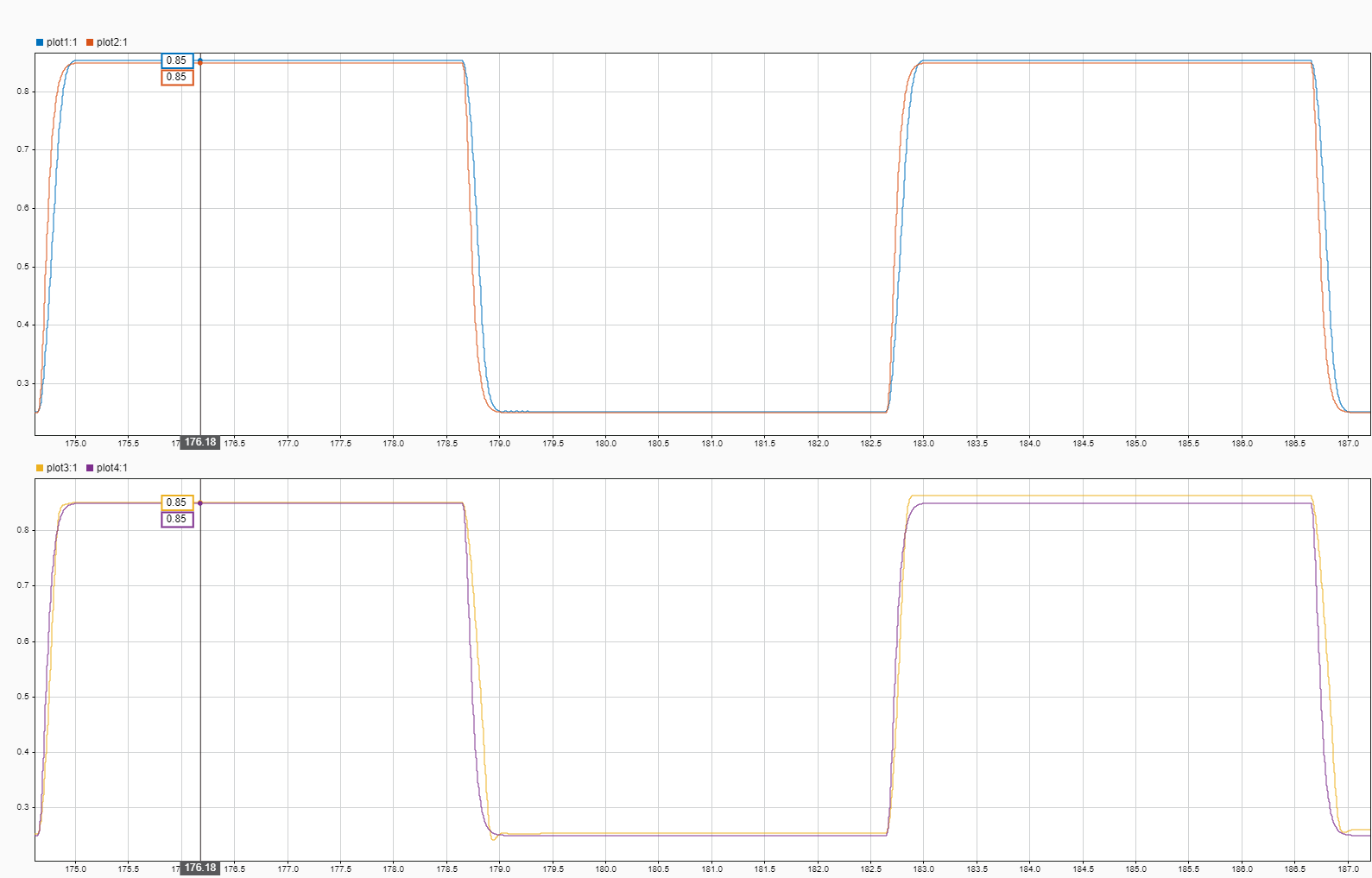


\

Theta3 theta2

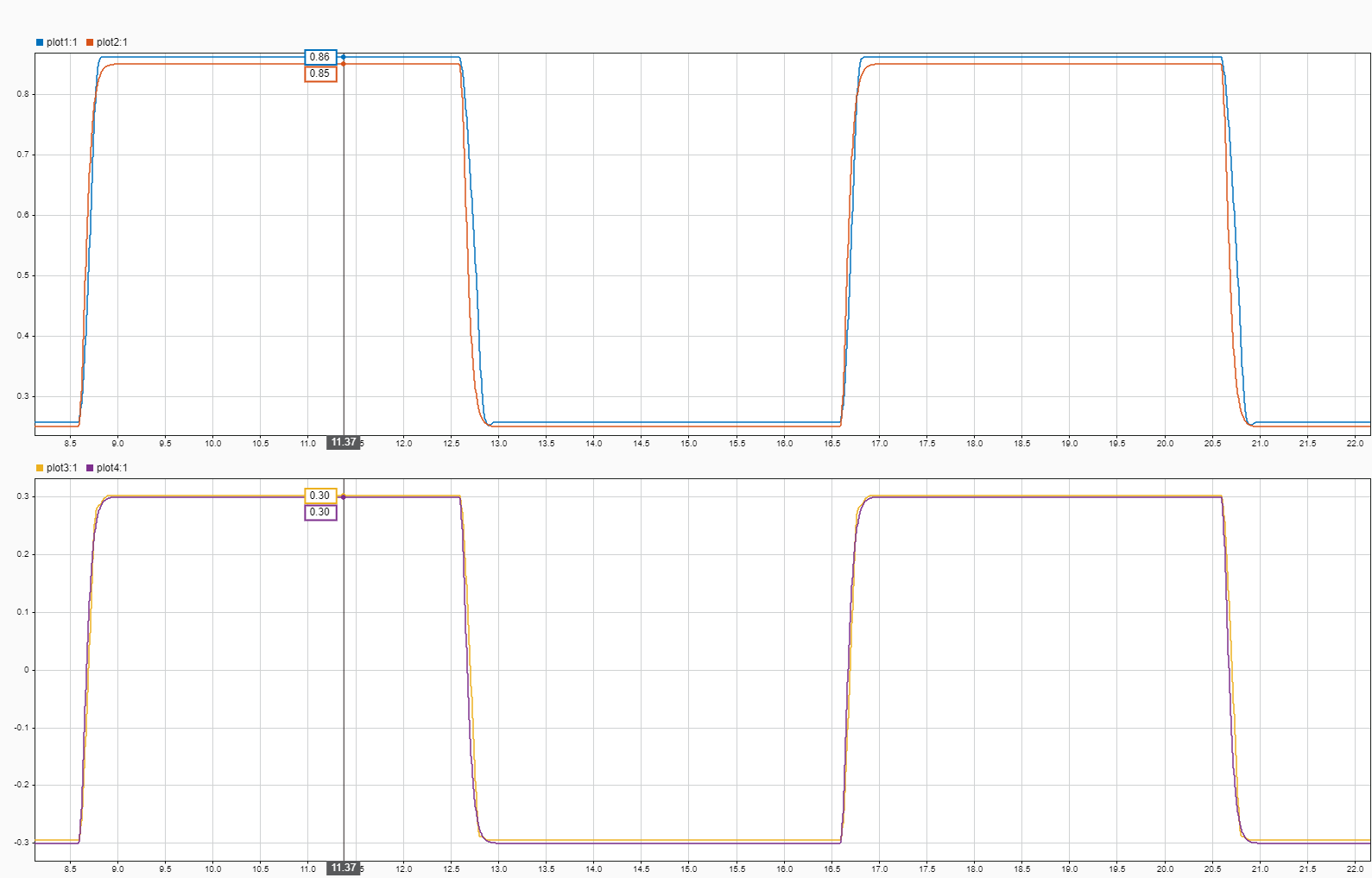


Theta1 theta2



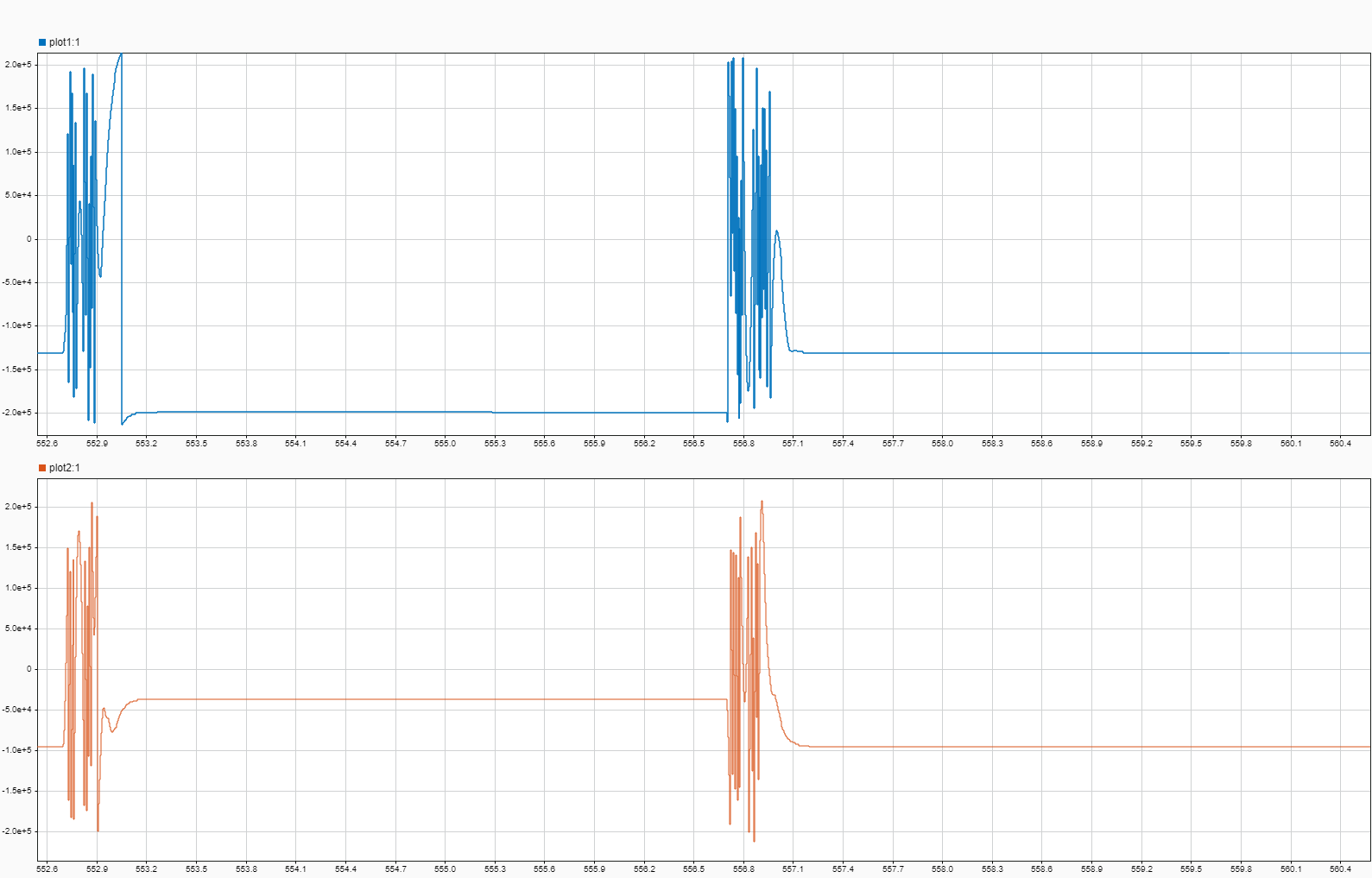
Contoller0 PD + Feedforward

Theta2, theta3

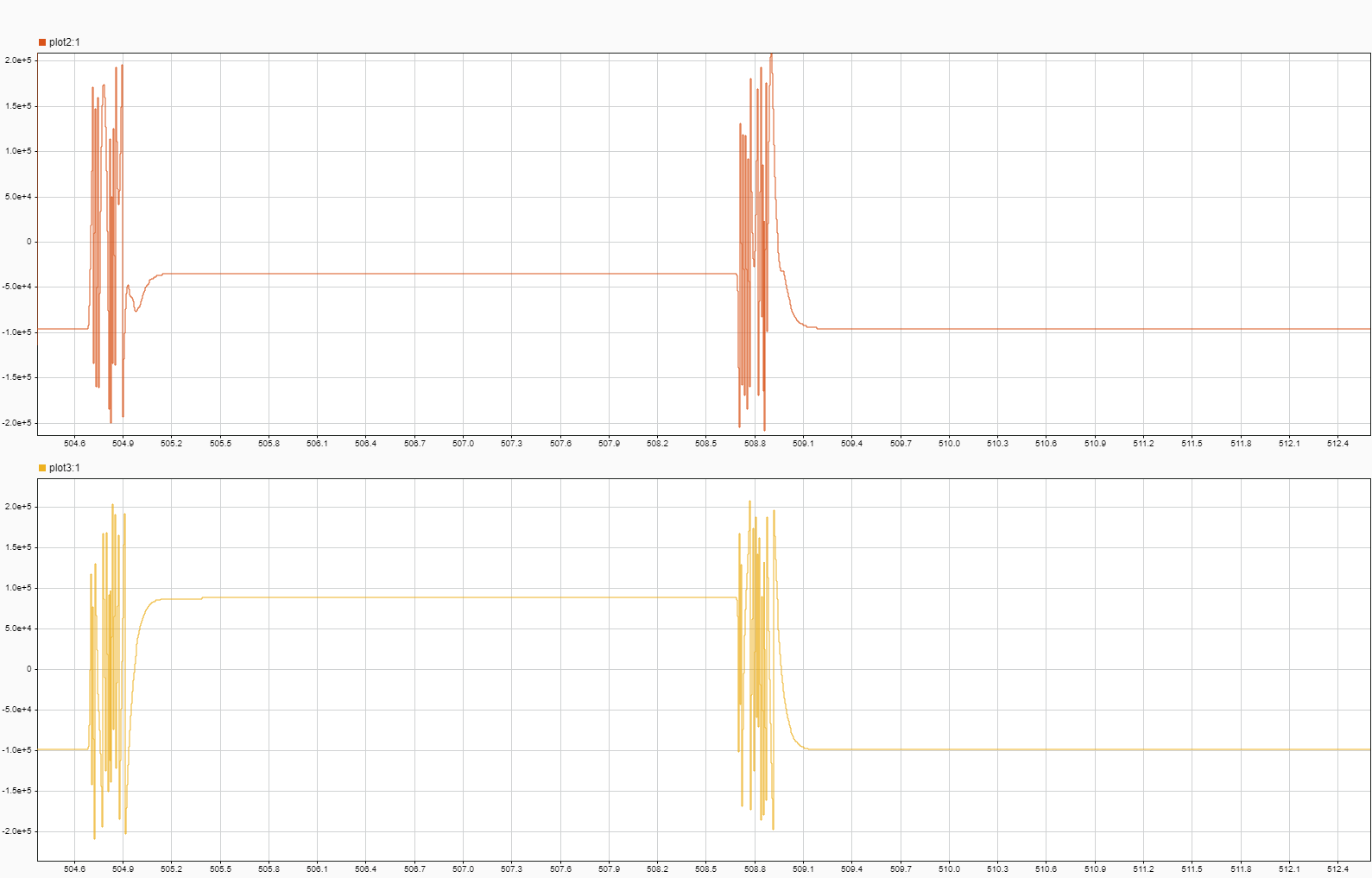


Error

Error1, error2



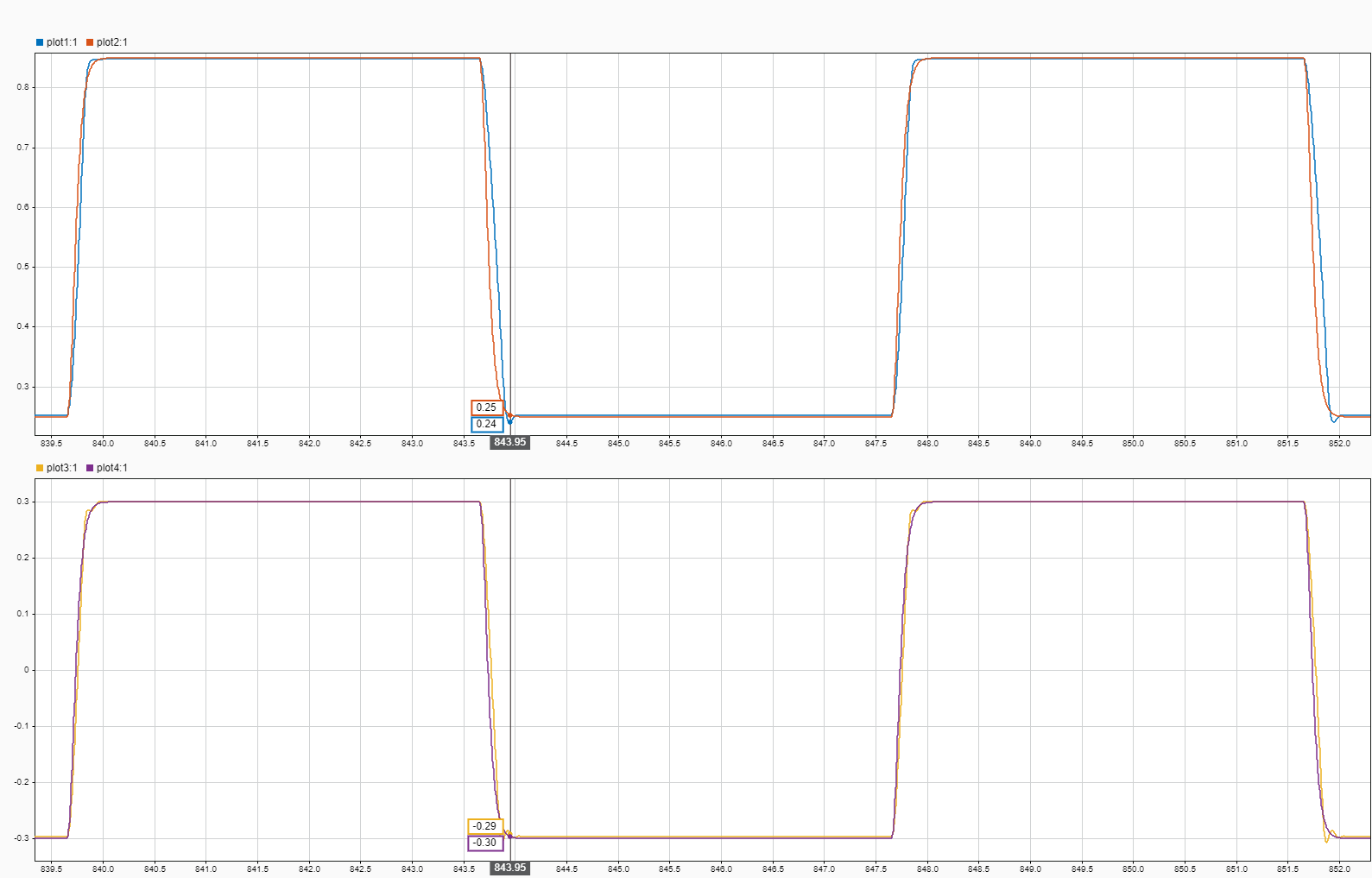
Error2, error3



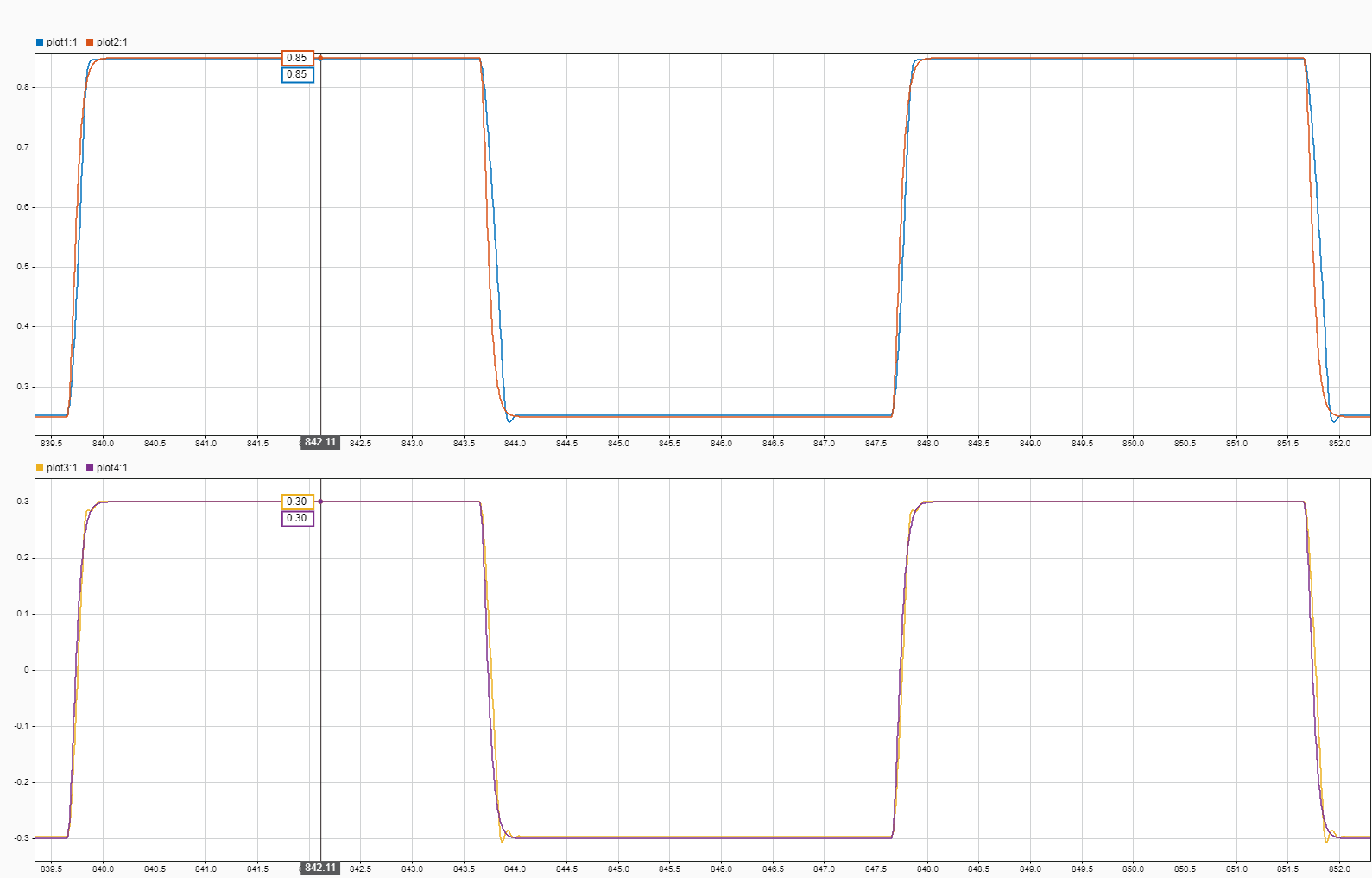
**Contoller1 IK**

Theta2, theta3

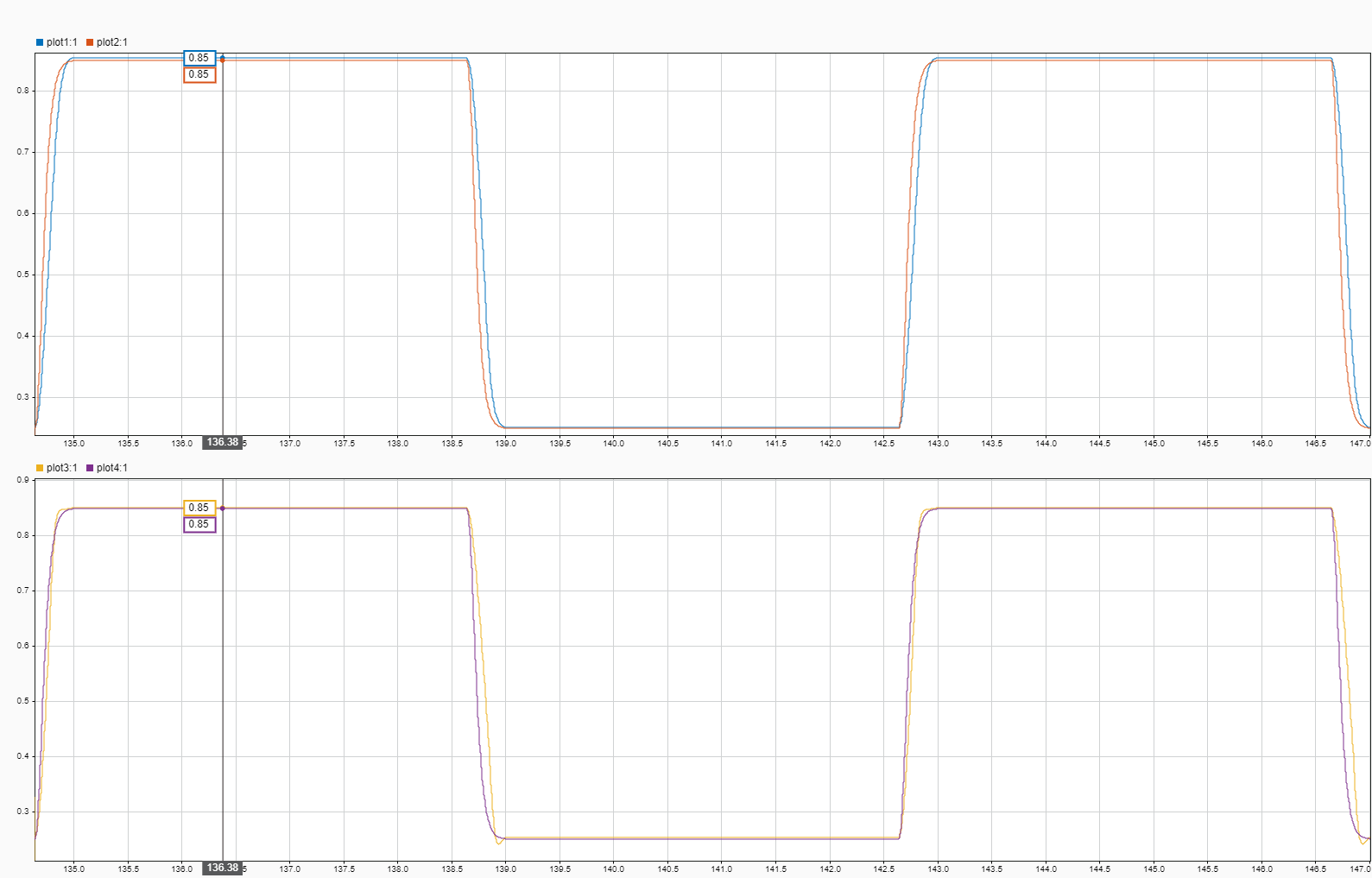
(error peak)



(steady state error )

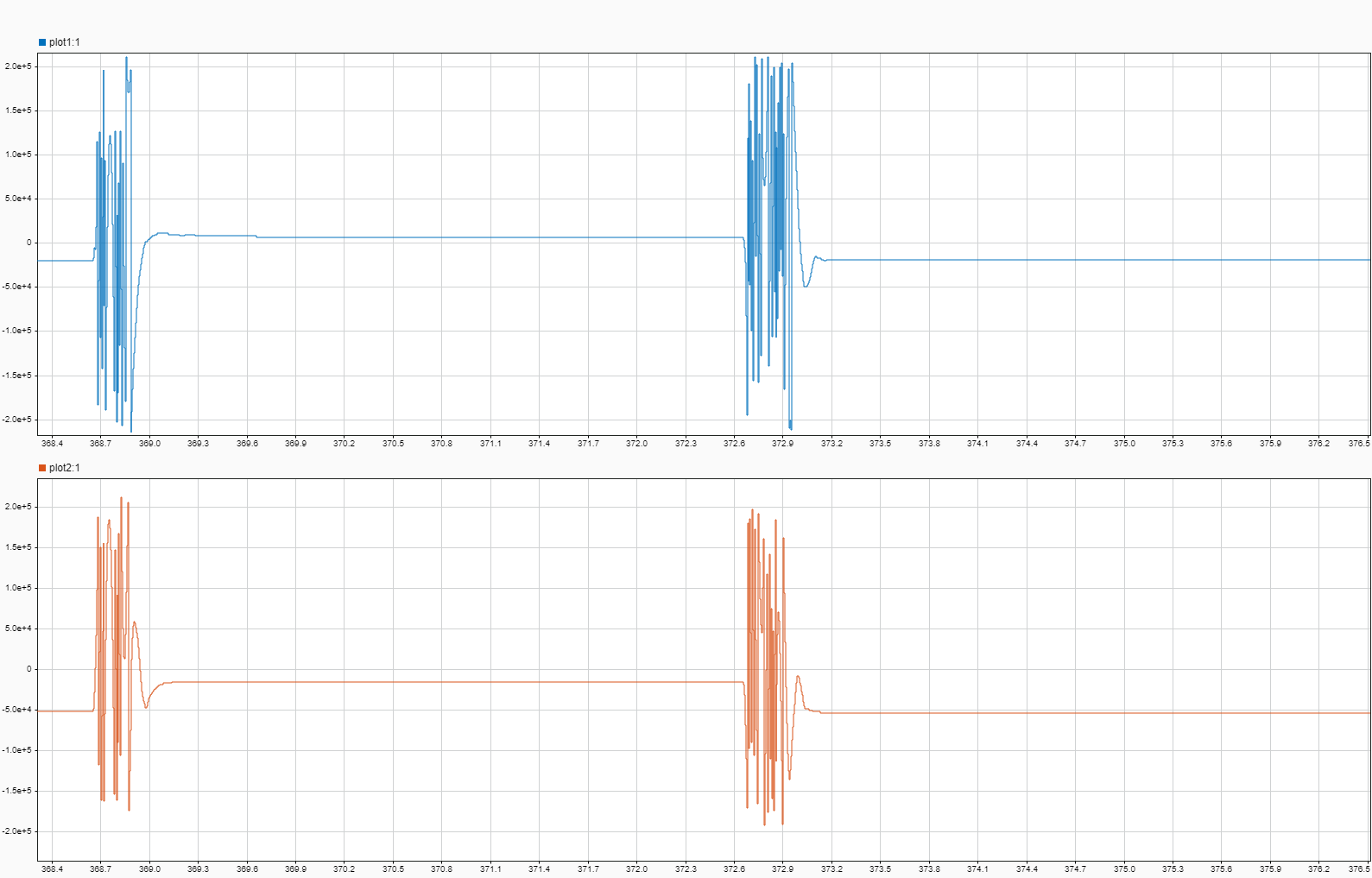


Theta1 theta2



Error

Erro1, error2



Error2, error3

