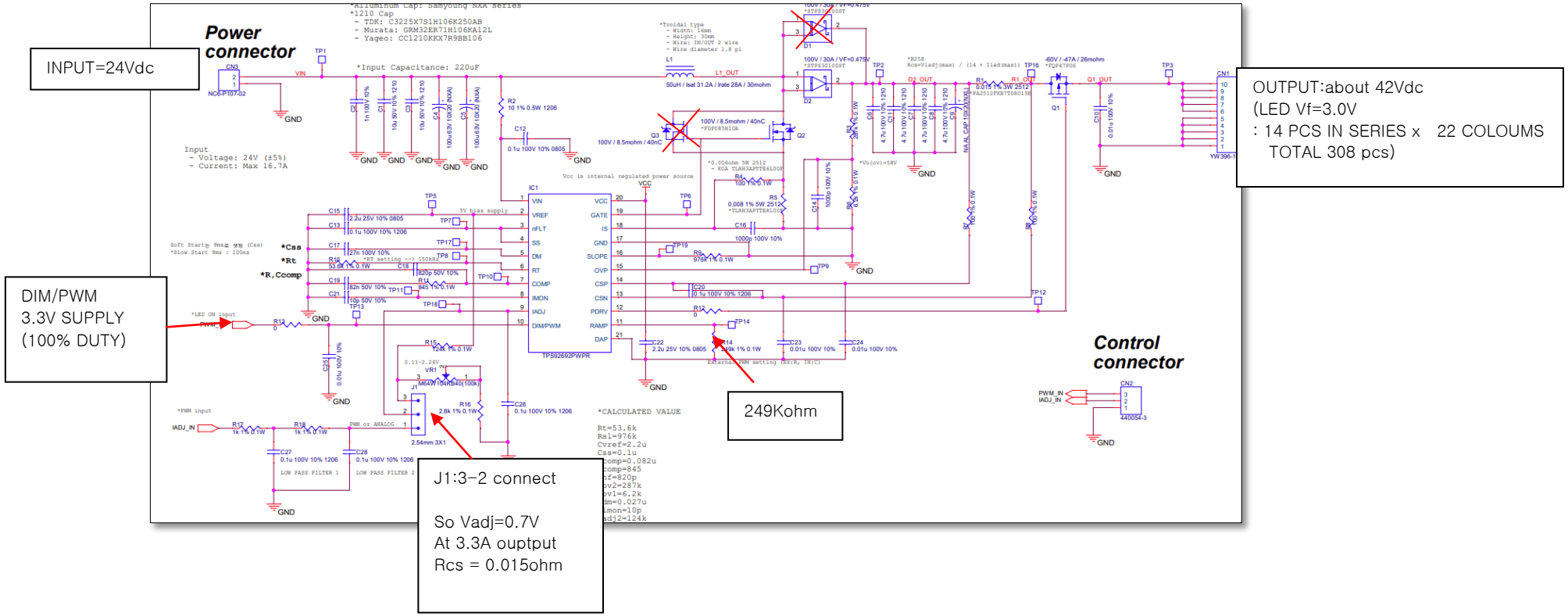
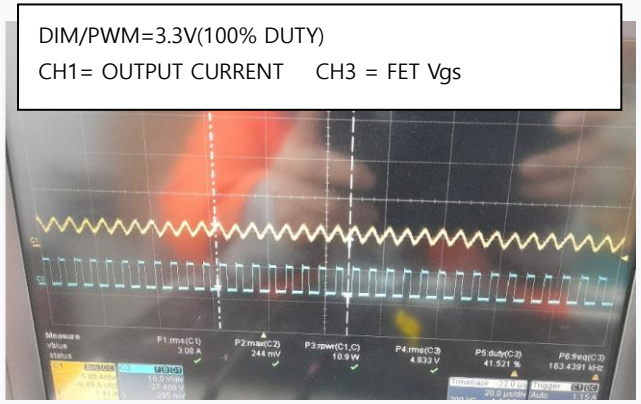
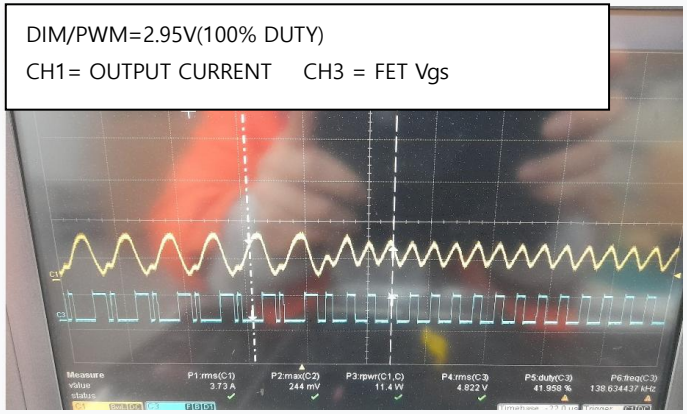


Q1) When the DIM/PWM input is regulated from 3.3V to 3.0V, Output current and switching waveform become unstable
By design, isn't the output current getting smaller?

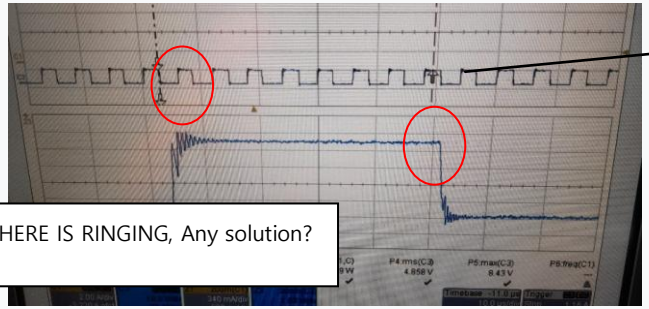
DIM/PWM=3.3V(100% DUTY)
CH1= OUTPUT CURRENT CH3 = FET Vgs



DIM/PWM=2.95V(100% DUTY)
CH1= OUTPUT CURRENT CH3 = FET Vgs



Q2) DIM/PWM=3.3V, The switching waveform and frequency are not fixed. Is there a reason?

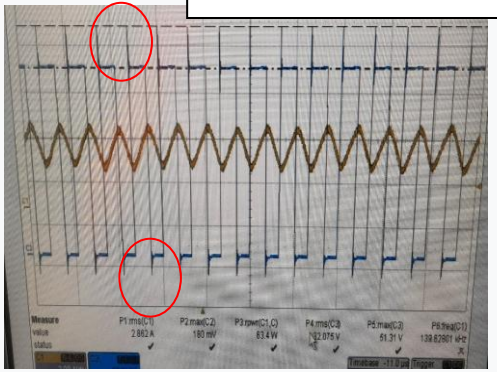


It is 150KHZ by design, but it keeps changing to 120~170KHZ.

THERE IS RINGING, Any solution?

<- FET(Q2) Vgs

THERE IS ALSO RINGING, Any solution?



<- FET(Q2) Vds