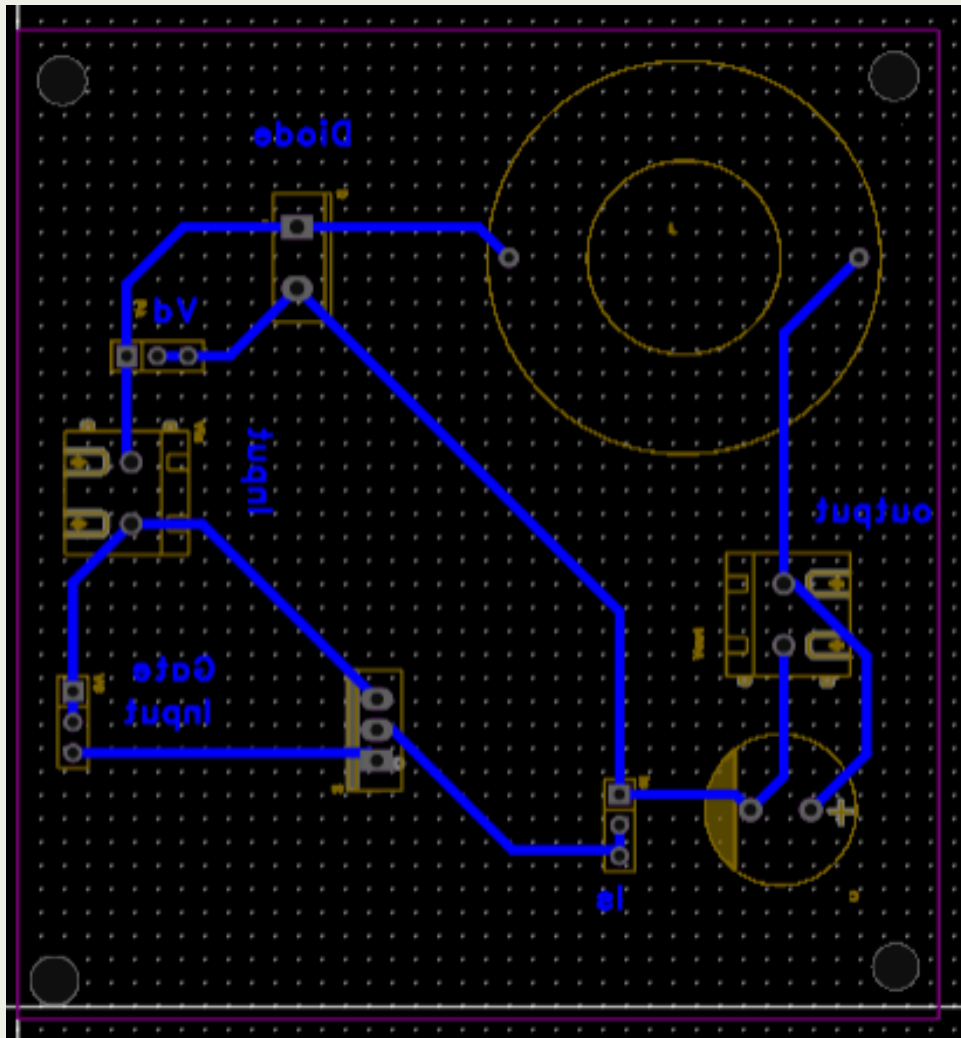# DC-DC BUCK CONVERTER REPORT

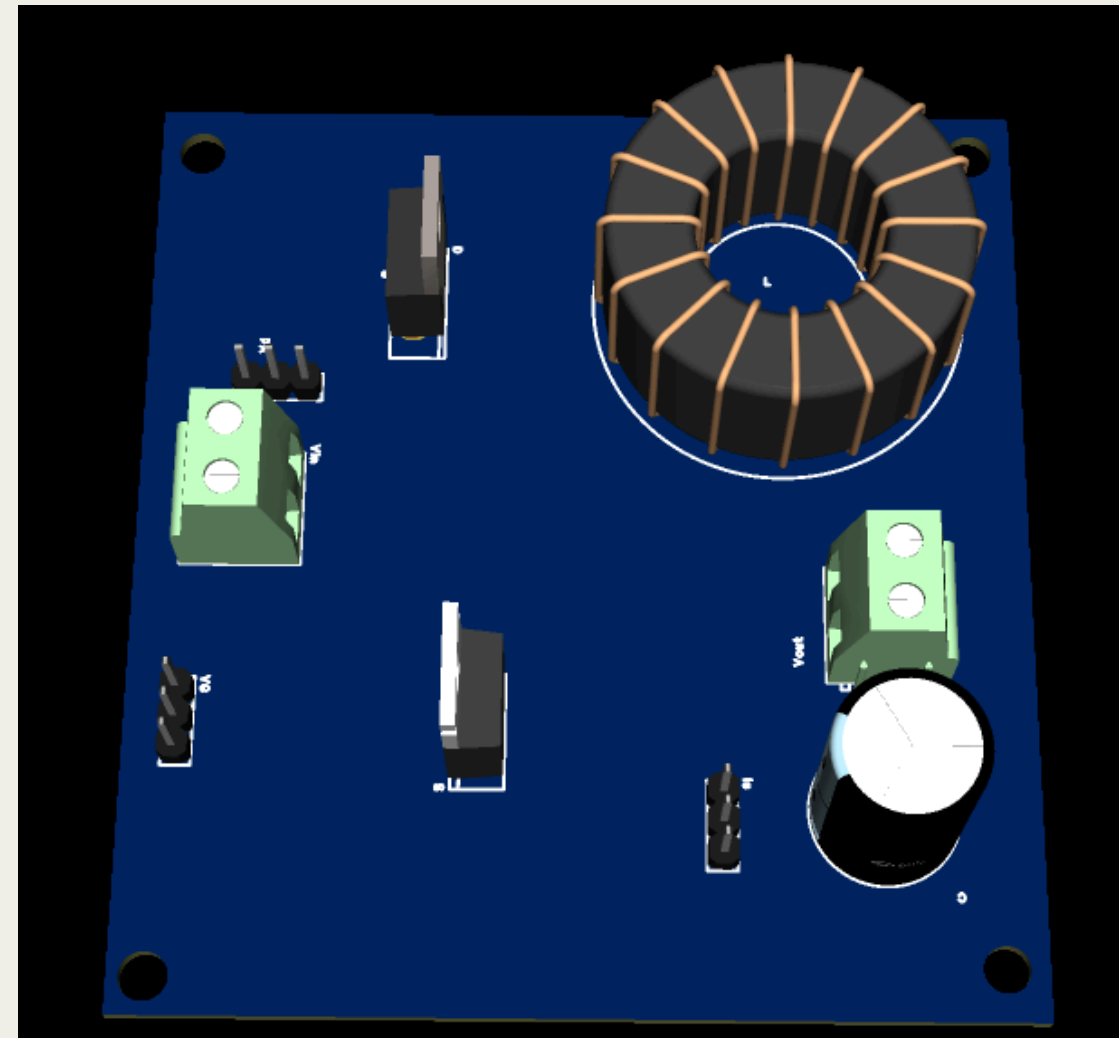Problem Statement:
Buck Converter.

Specifications:
  Input 12.5 V, Output 7.5V, Switching frequency 12.5 kHz, Output current 1 A.
  Waveforms of Switch current and diode voltage in CCM.
  Reduce the switching frequency to Demonstrate DCM.
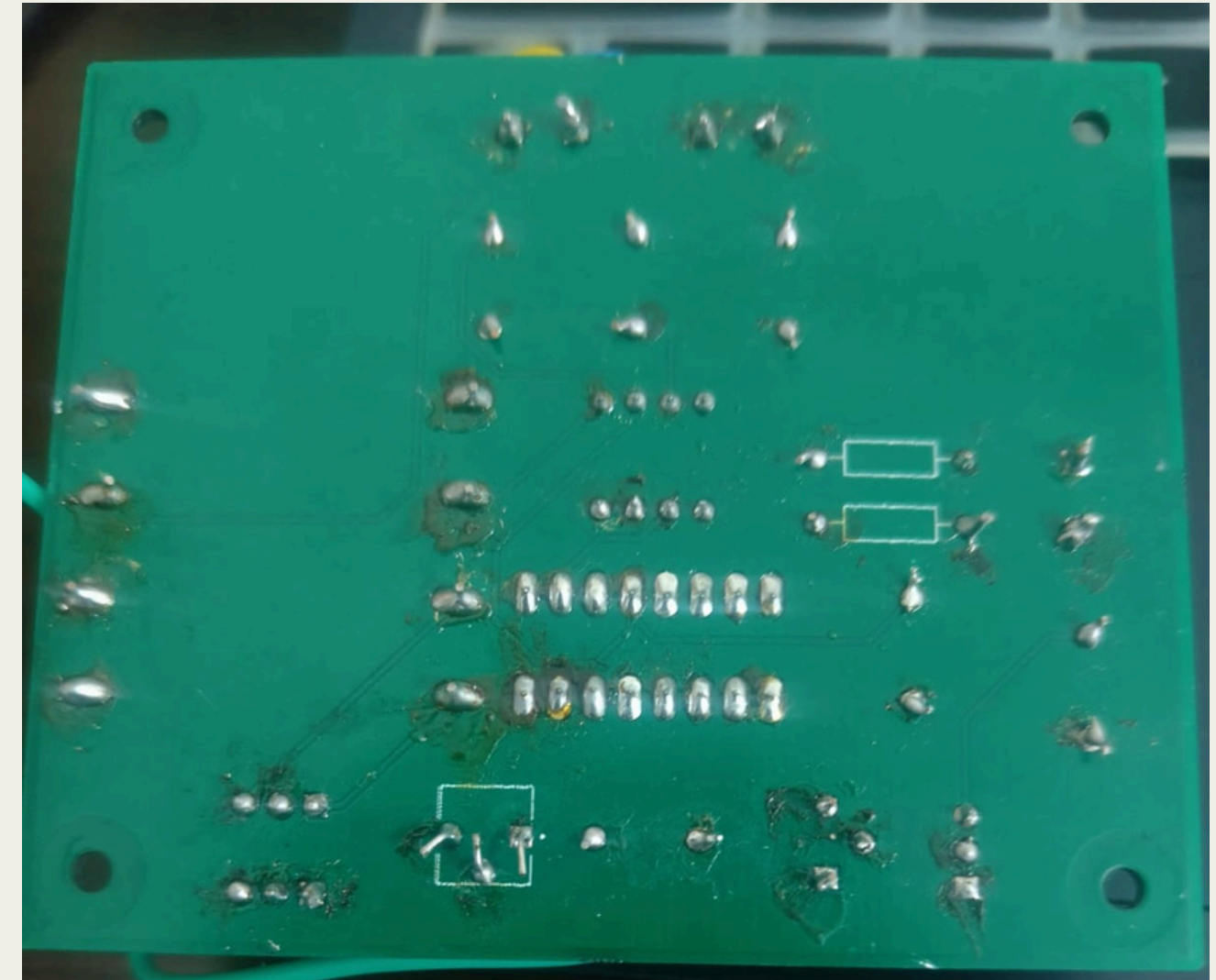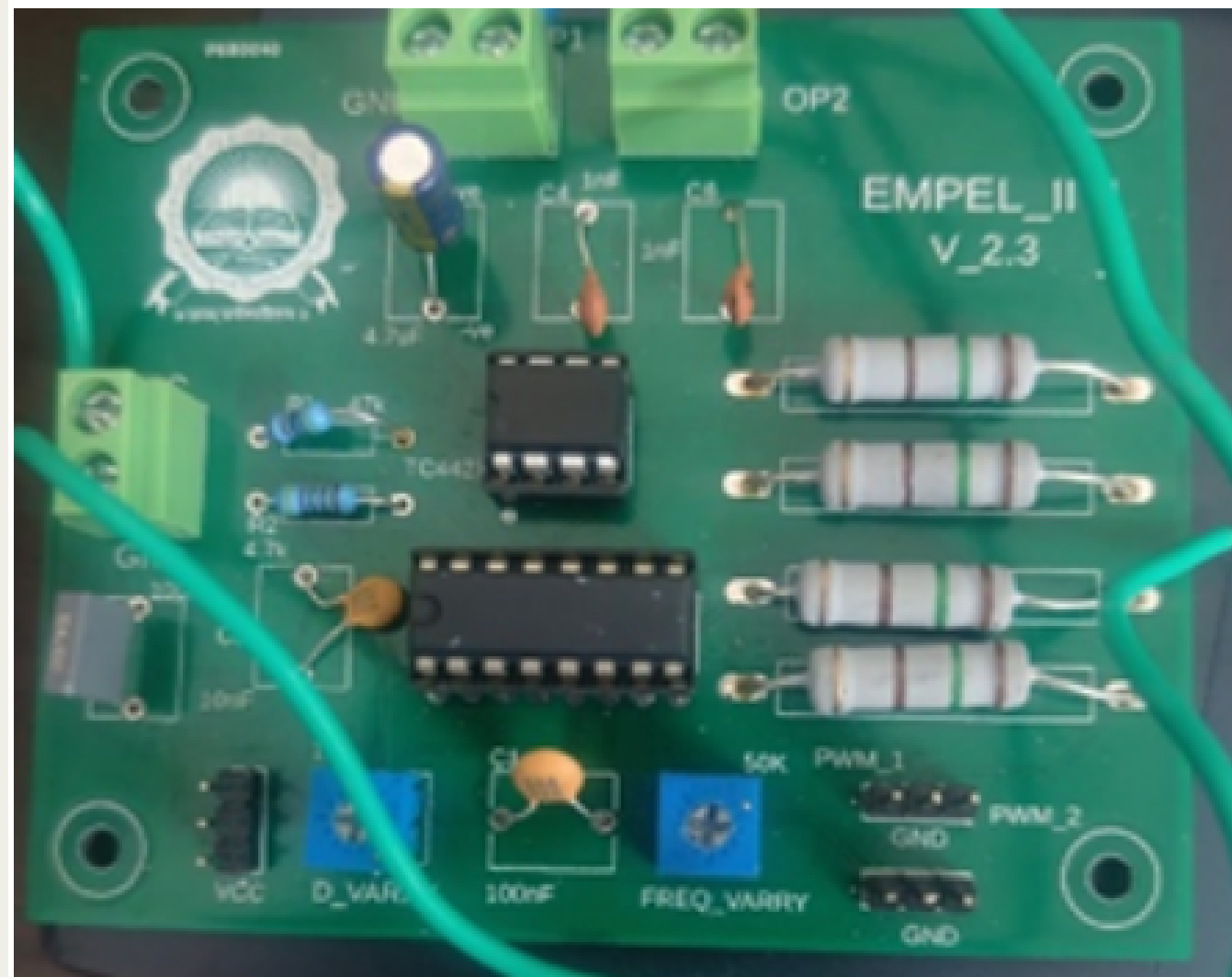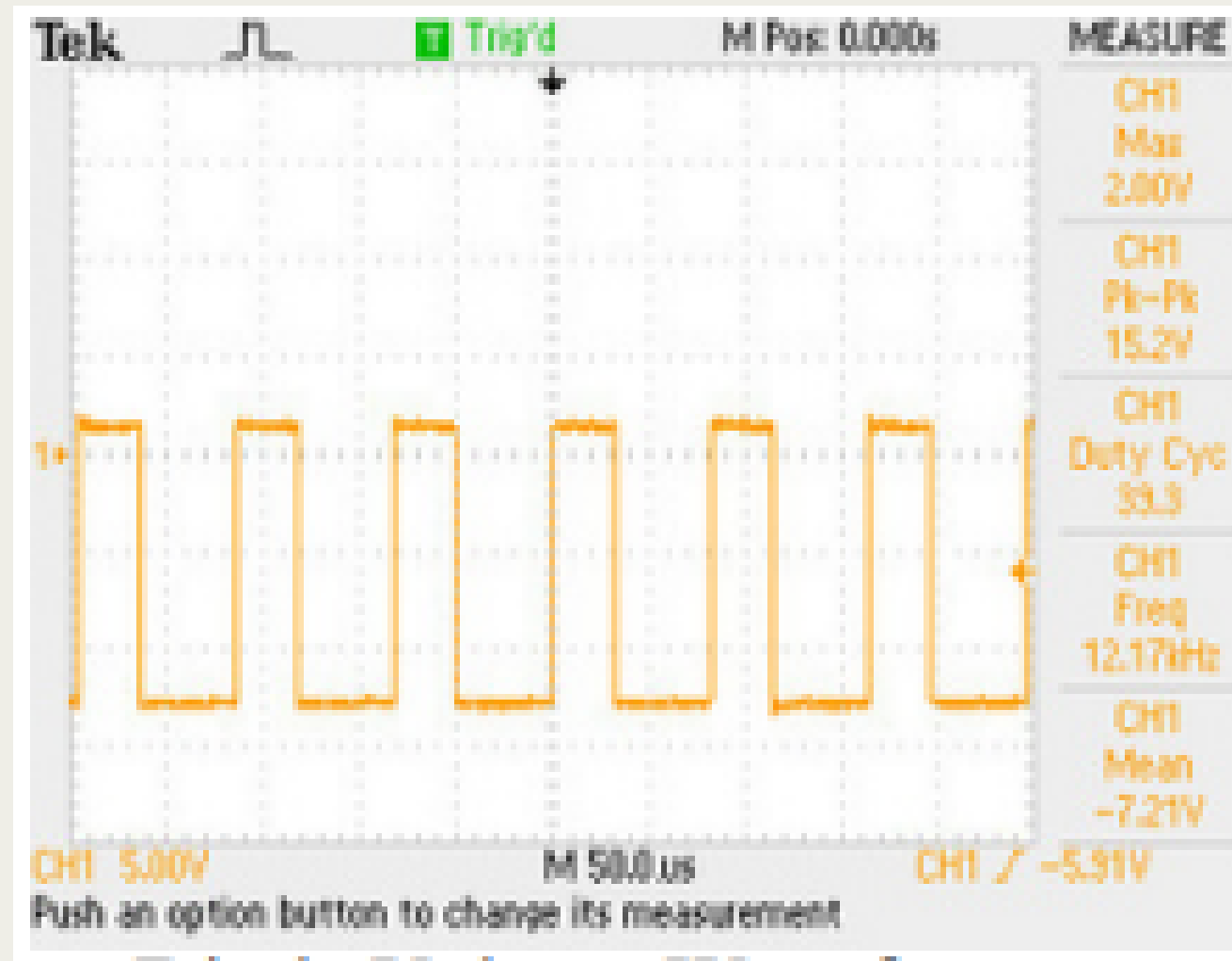
Buck converter PCB design

Design on EasyEDA

3D view

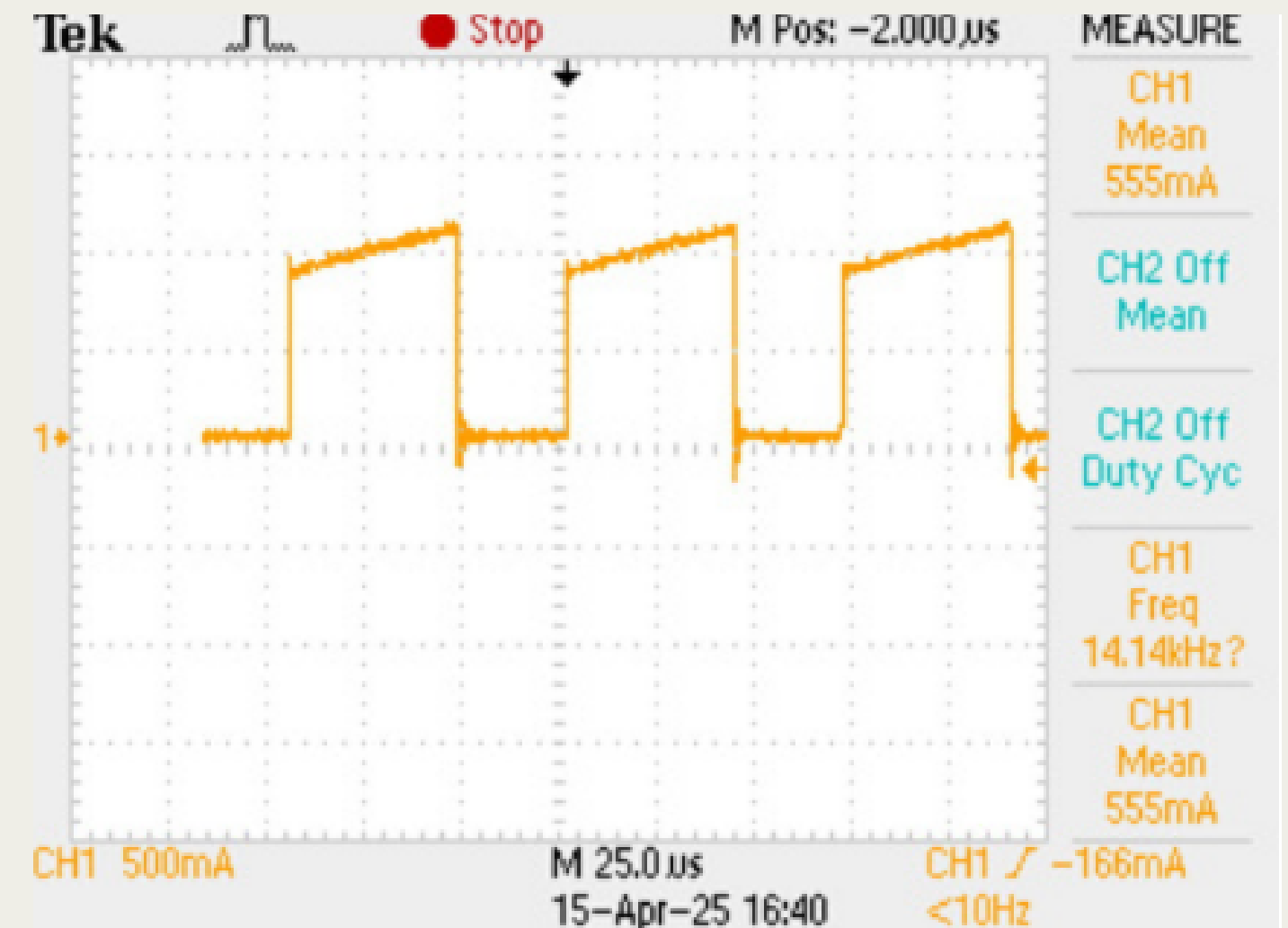Soldered PCB

Gate Driver PCB
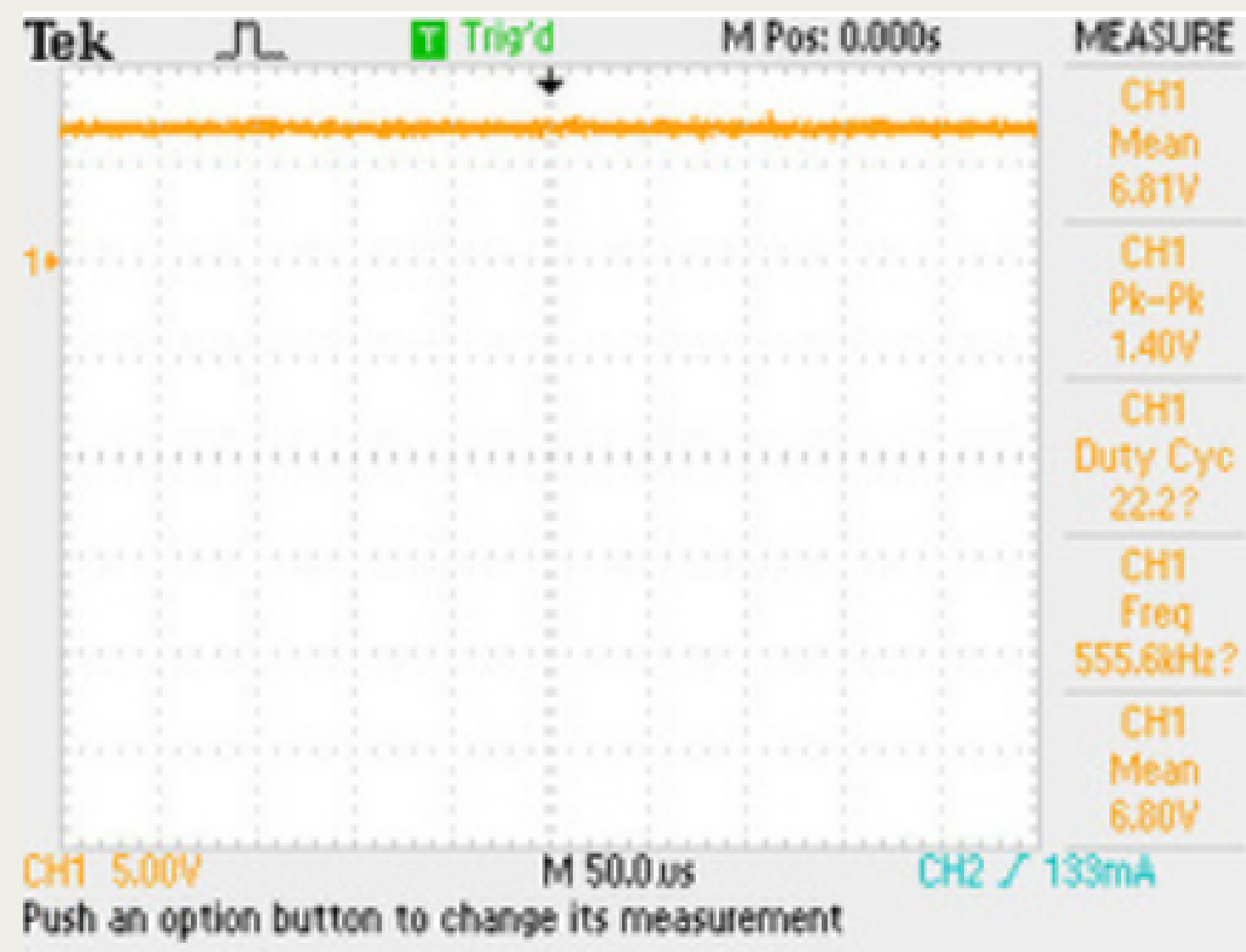

Soldered MOSFET gate driver

Waveforms

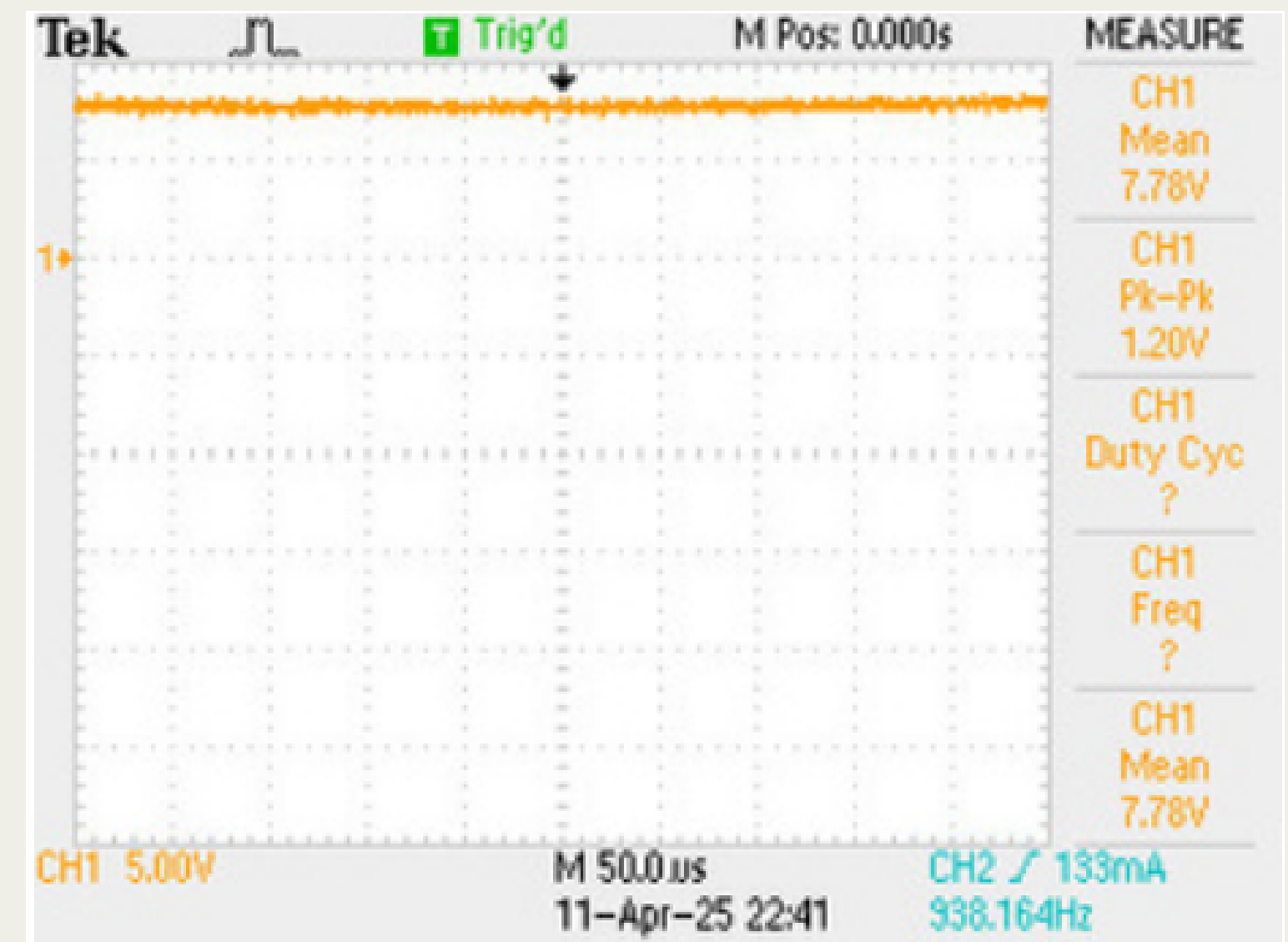Diode Voltage Waveform

Switch Current waveform

Output Voltage in CCM

Output voltage in DCM

Thank you!

by Vansh Sabharwal