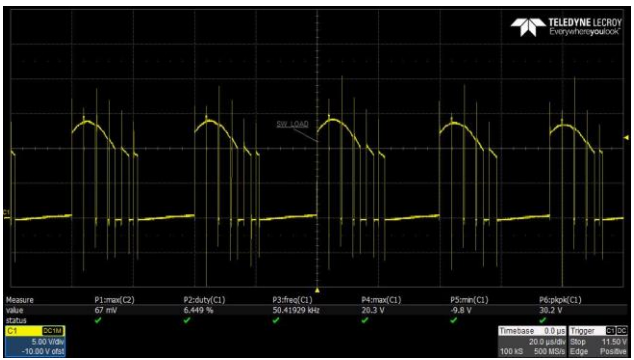
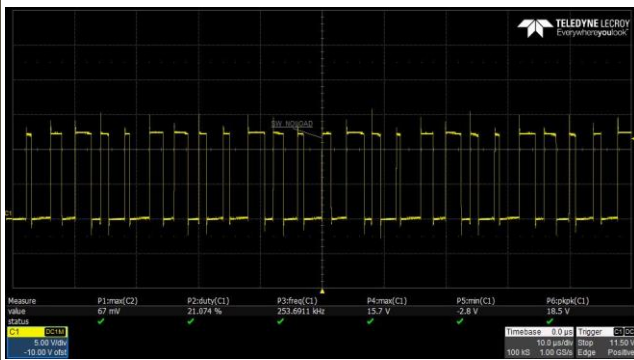


LM5116 Waveform

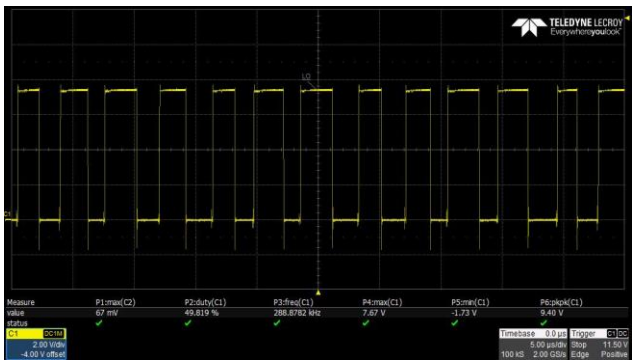
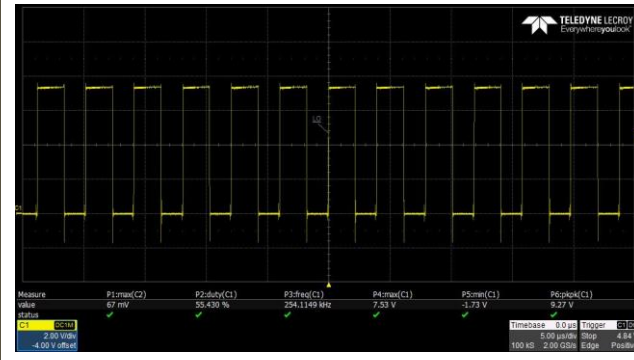
NO LOAD

MEDIUM LOAD(1.67A)

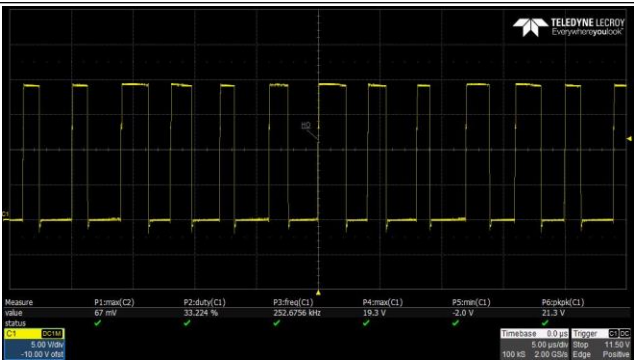
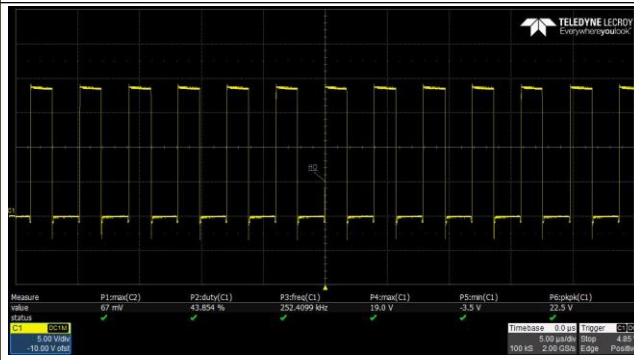
Switching



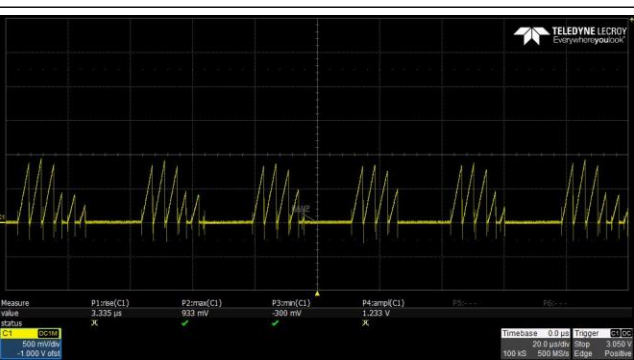
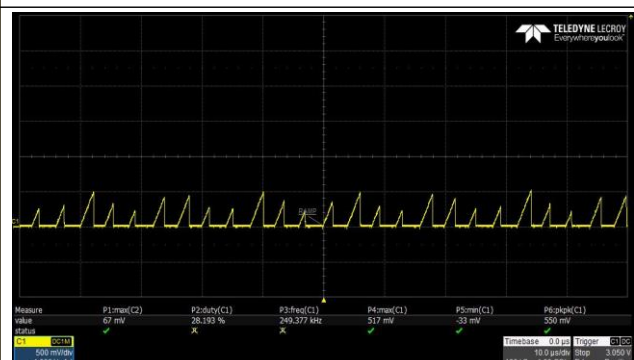
LO

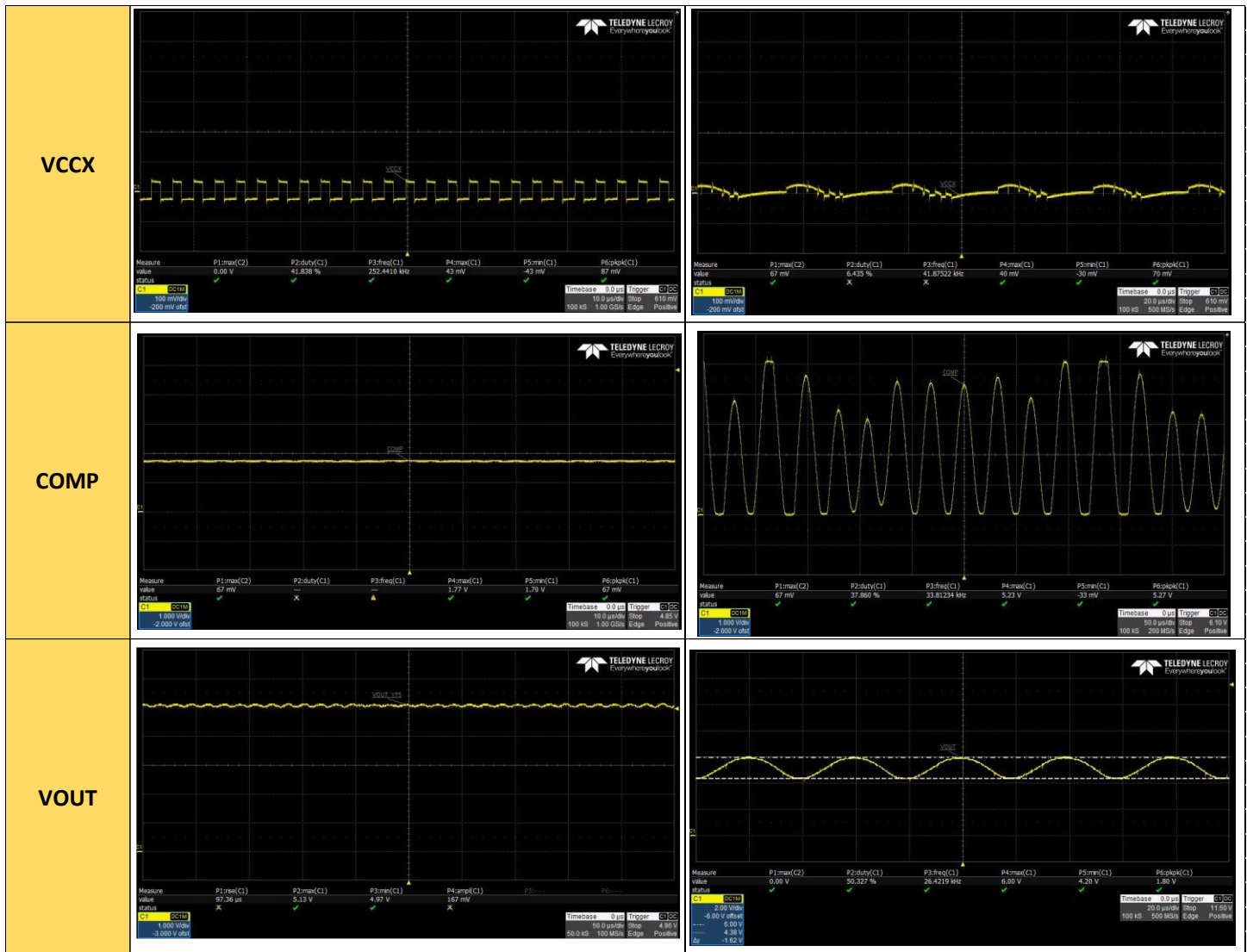


HO



RAMP





- Use the schematic with component values as shown in the datasheet of LM5116 (Reference Design).
- When switching from no load to medium load, LM5116 does not provide 5V output, using multimeter it can measure 5V but the backsystem using 5V source of LM5116 doesn't work.
- $V_{in}=12V$, Input current = 1.1A, $V_{out}=4.9V$, $R_L=30\Omega$, Output current = 1.6A.
- When I removed load (no load), Input current = 0.4A, the inductor was quite hot. And repowering 12V, after a short time, the input current will increase again to 0.4A with no load, the inductor will heat up again. Changed the coil and the condition is still not improving.