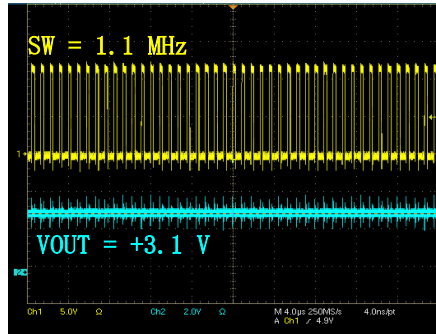
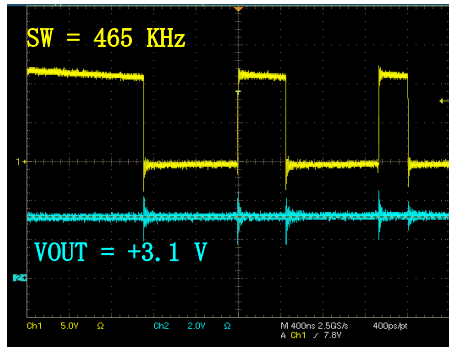


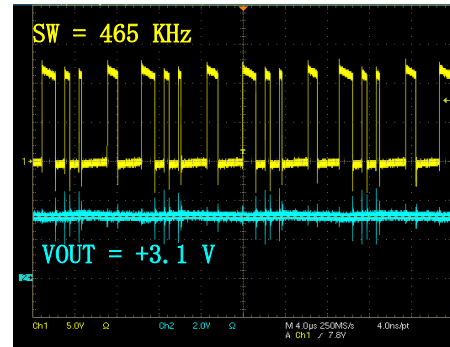
Normal sample 400ns/div



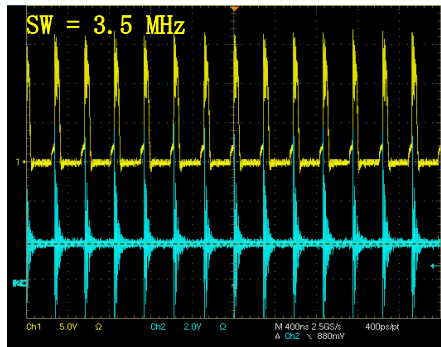
Normal sample 4uS/div



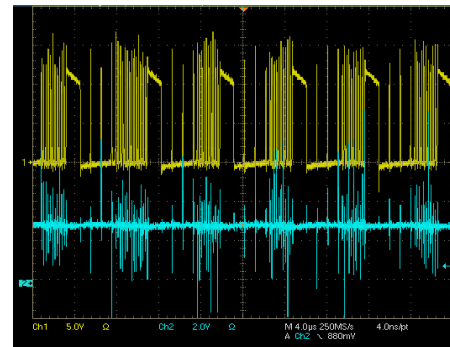
sample #1 400ns/div



sample #1 4uS/div



sample #2 400ns/div



sample #2 4uS/div

Hello.

I have a question about TPS 62175.

We created a board and carried out the evaluation.

As a result, there are two devices with unstable operation,
We confirmed single operation.

For single operation, the IC was placed on the TI EVM (TPS 62175 EVM) and executed,
the waveform on the left became.

Top IC waveform: Normal IC operation waveform

IC waveform in the middle: IC operation waveform of sample 1

IC waveform below: IC operation waveform of sample 2

conditions

Board: TI's EVM (default setting),

VIN = + 12 V,

VOUT = + 3.3 V / 500 mA,

Ta = 25 °C

Looking at the waveform

For IC operation of sample 1, frequency: 465 KHz

For IC operation of sample 2, frequency: 3.5 MHz

Works with.

SW is in an unstable operation.

We carried out kabutracer and confirmed the input impedance, but it was the same as normal.

A question

Q1 What is the reason behind this behavior?

Q2 Is there a high possibility that it is broken?

Thank you.