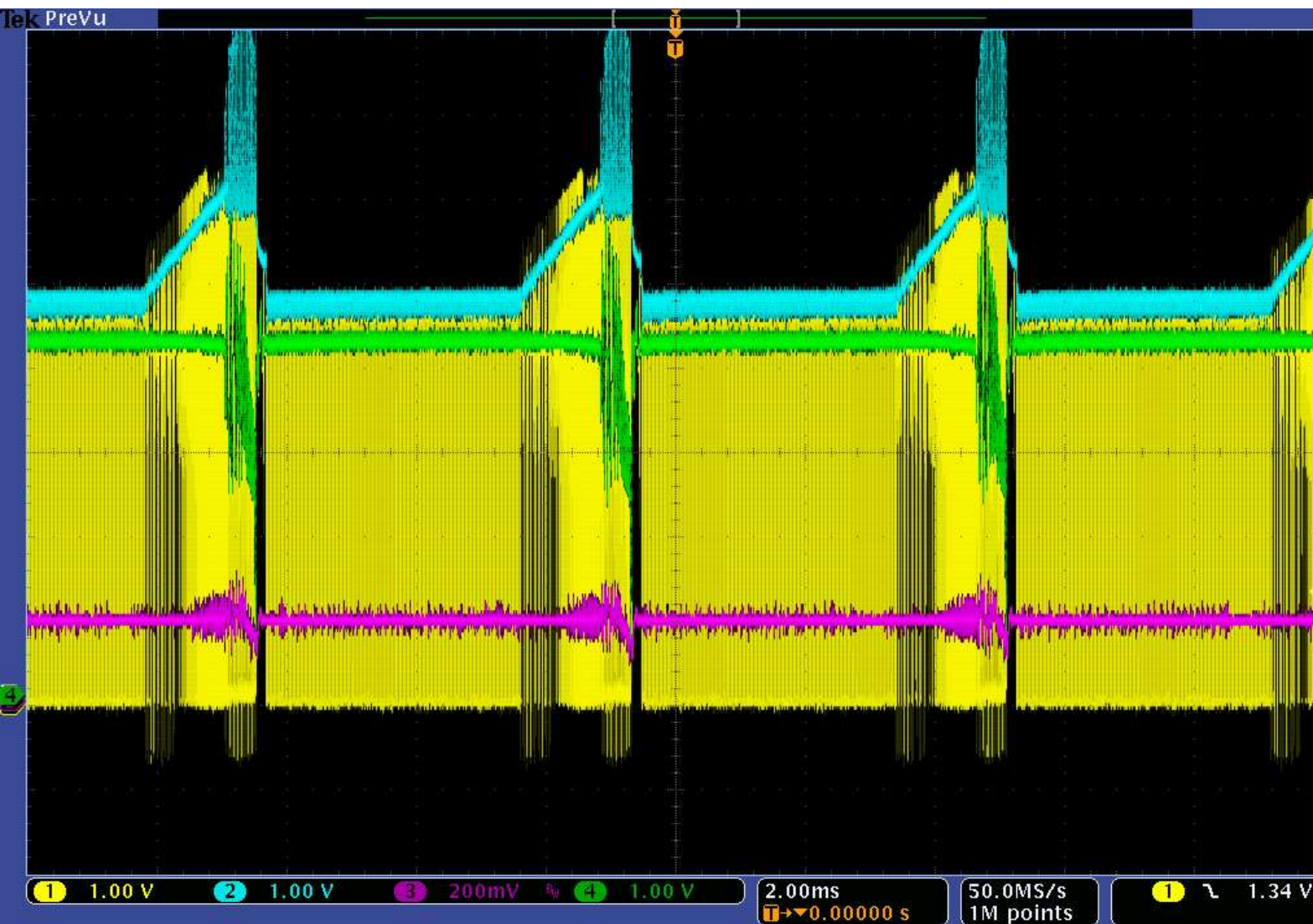


Boost Driver Debugging

Using Schoki's (v1) driver assembled by TA

22 Mar 2018



Previously,

*Modified with extra 44uF
of input capacitance*

Probe colours

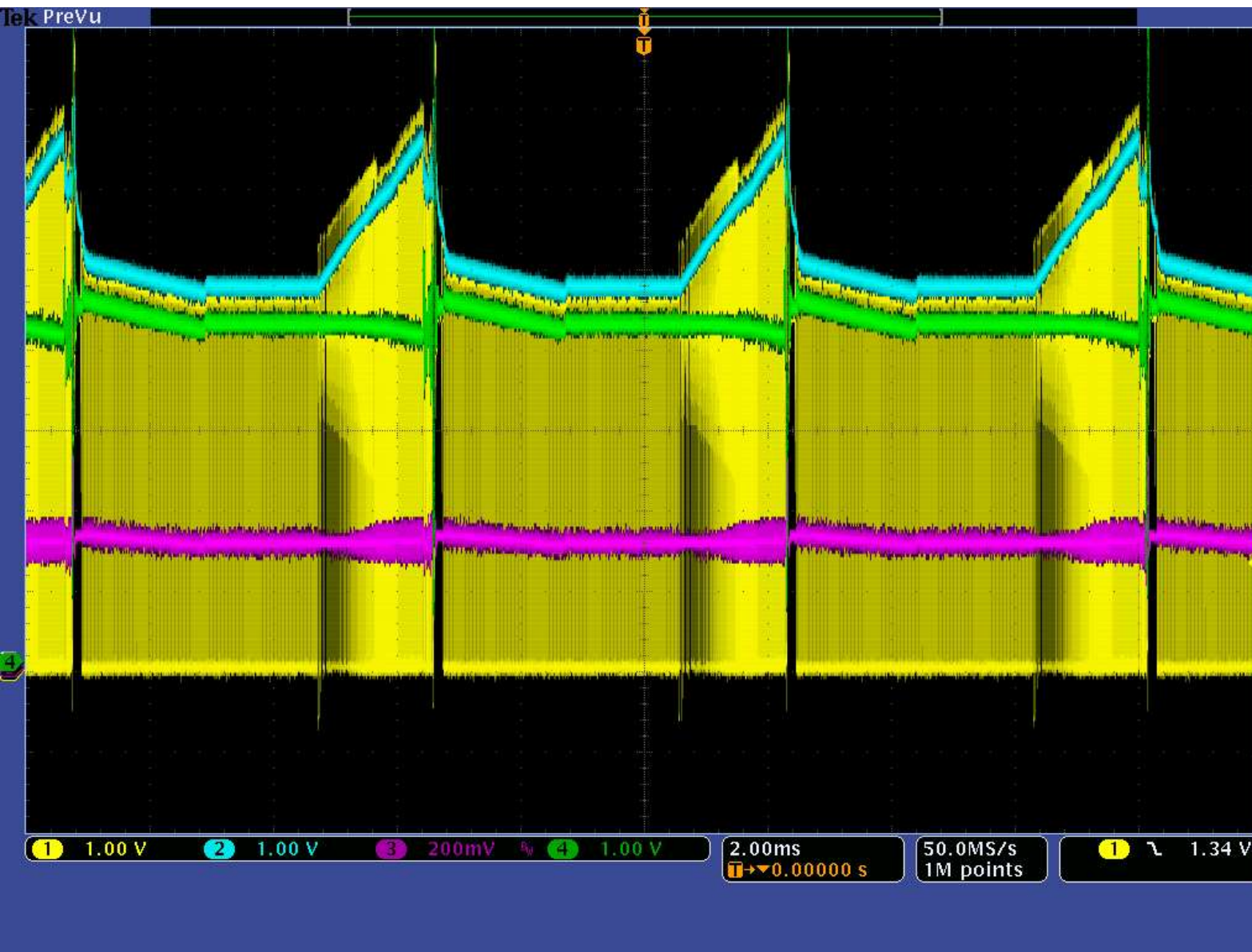
V_SW

V_Out_LED

V_pot

V_Input_4.2

LED begins to strobe as
current is slowly increased



Now

*Modified with extra 44uF
of input capacitance
+ 100uF output capacitance
(all good quality MLCC)*

Probe colours

V_SW

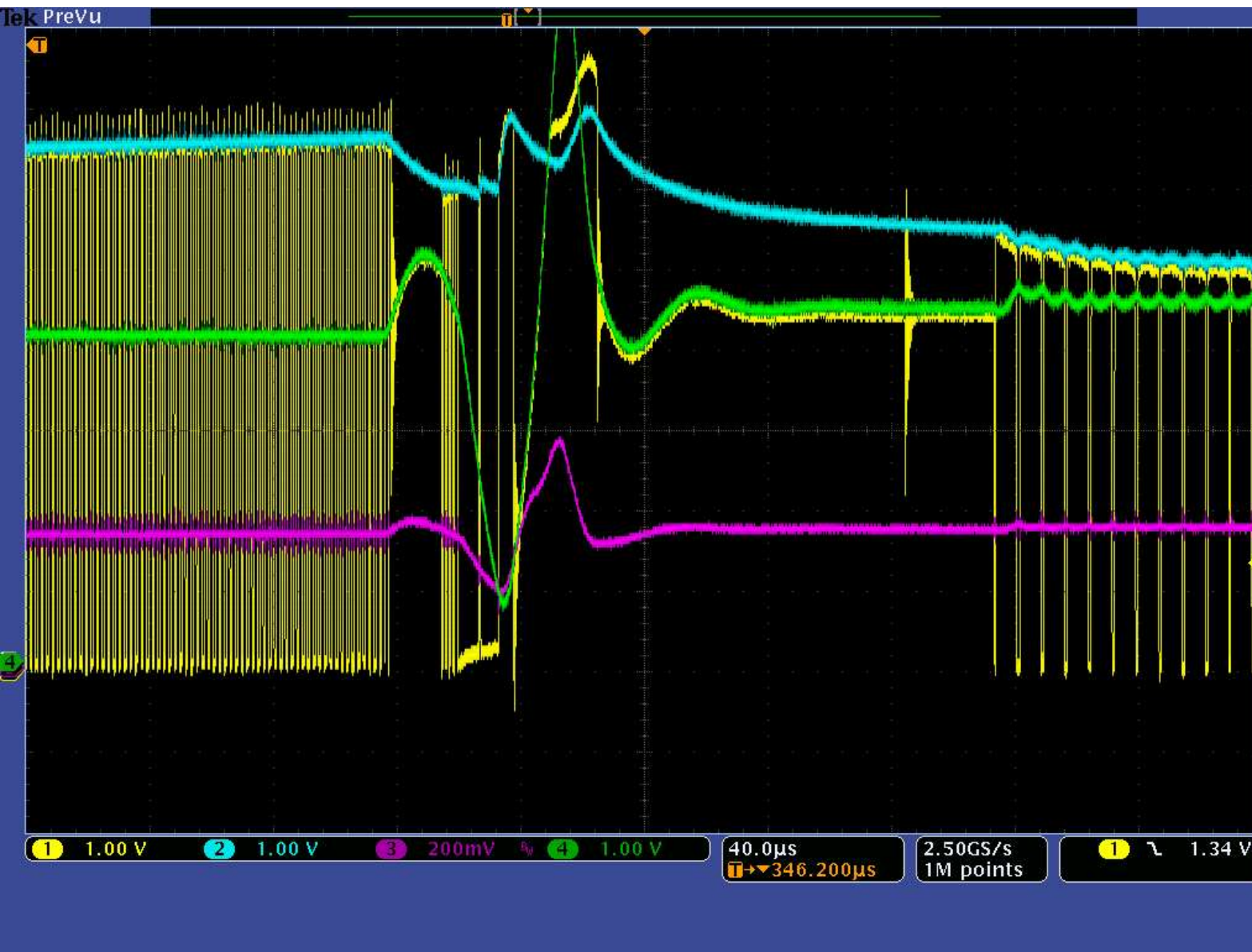
V_Out_LED

V_pot

V_Input_4.2

Similar issue but appears to
have different mode of
failure, but the flashing
frequency of around 170Hz
remains the same!

Good up to about 4.2V 1A



Now

*Modified with extra 44uF
of input capacitance
+ 100uF output capacitance
(all good quality MLCC)*

Probe colours

V_SW

V_Out_LED

V_pot

V_Input_4.2

This time, MP3431 appears
to lock up in a different
mode.