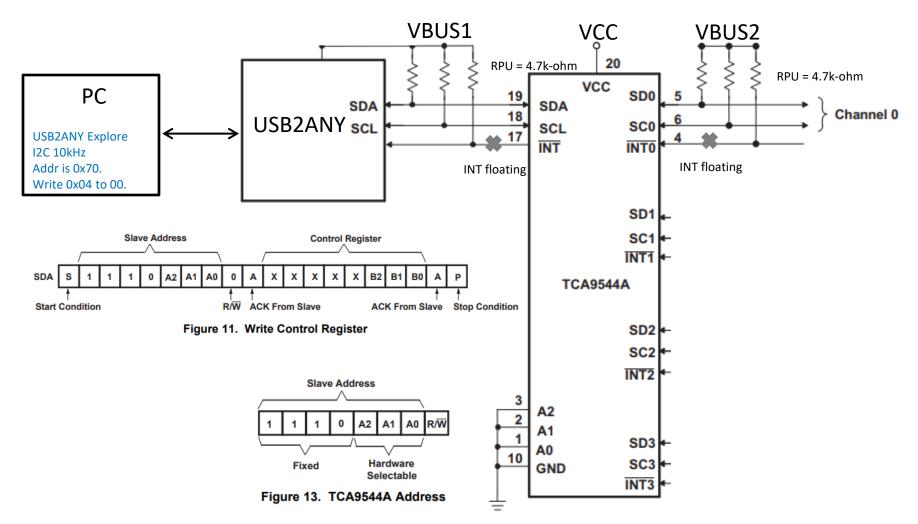
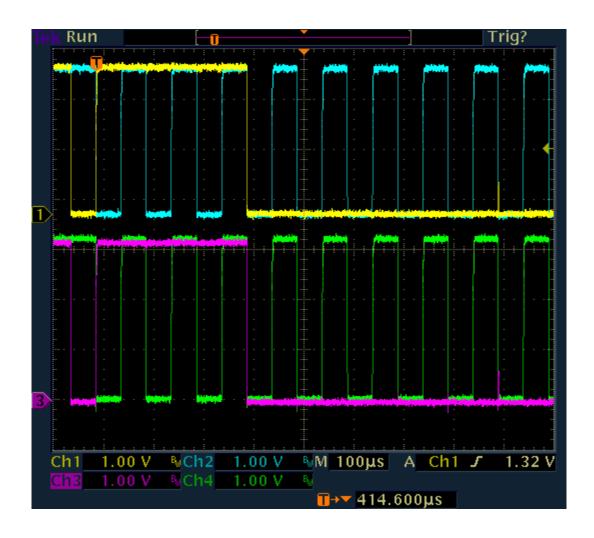
#### TCA9544A VCC and VBUS Test

Ting Ye

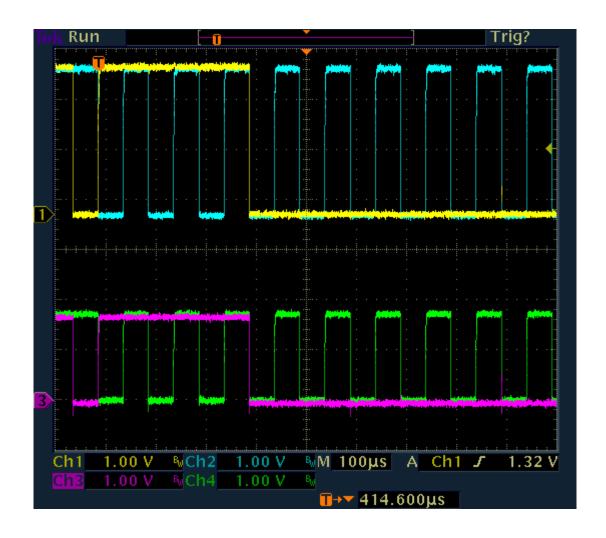
# **Test Setup**



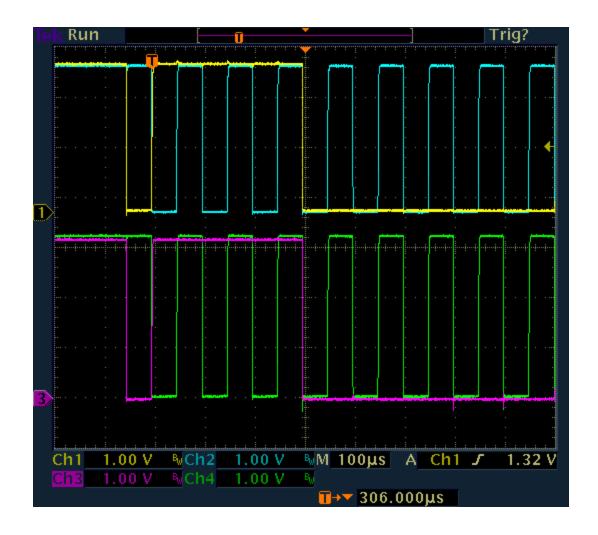
### VCC/VBUS1/VBUS2 = 1.8V/3.3V/3.3V



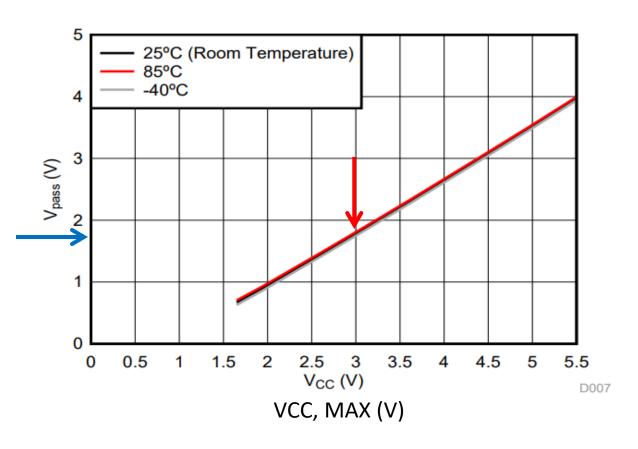
#### VCC/VBUS1/VBUS2 = 1.8V/3.3V/1.8V



## VCC/VBUS1/VBUS2 = 3.3V/3.3V/3.3V



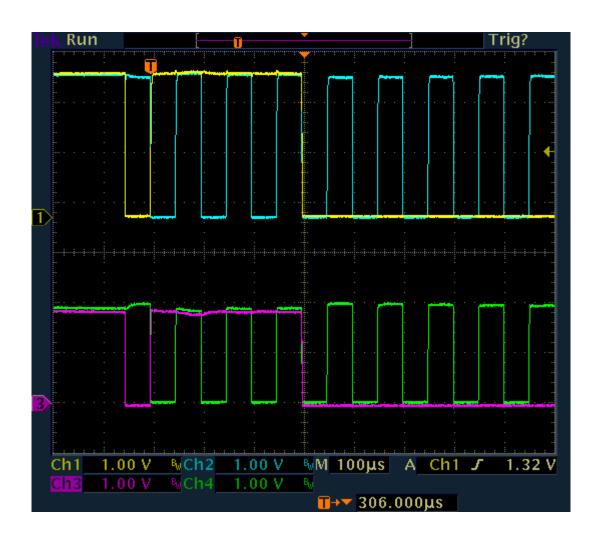
#### VPASS and VCC MAX



- VCC/VBUS1/VBUS2= 3.3V/3.3V/1.8V
- If Vpass is 1.8V, VCC maximum is approximately 3V.
- If VCC is larger than 3V, the MOSFET will be conducted when transmitted signals are in high voltage level.

Figure 16. Pass-Gate Voltage ( $V_{pass}$ ) vs Supply Voltage ( $V_{CC}$ ) at Three Temperature Points

## VCC/VBUS1/VBUS2 = 3.3V/3.3V/1.8V



### VCC/VBUS1/VBUS2 = 3.3V/3.3V/1.8V

