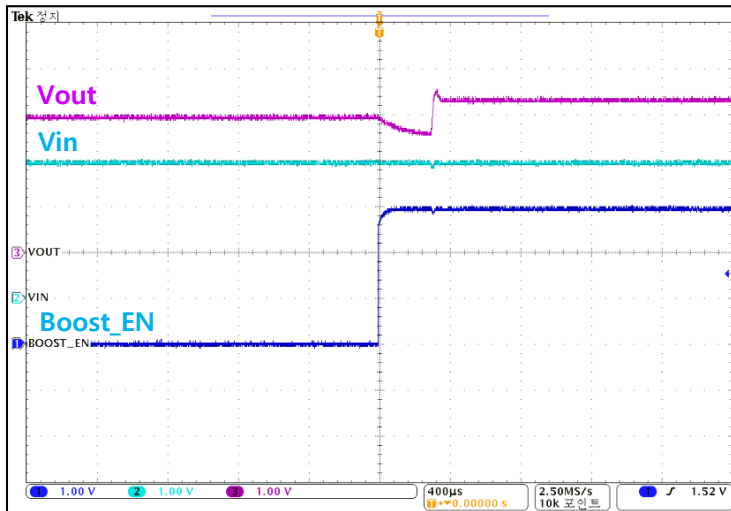


## 2. Analysis

### 2) Review operation by BOOST IC MAKER

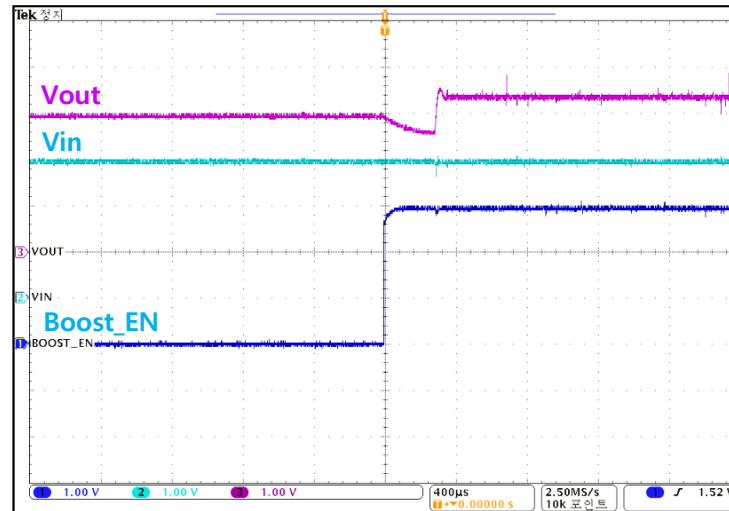
#### ① PBAFA1454A - Revision A

IMS (IM8132S) : Vout 3.3V Normal Output

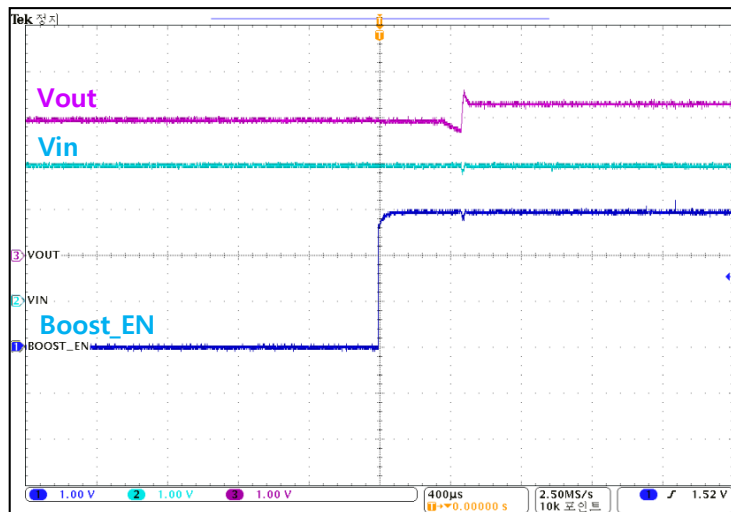


#### ② PBAFA1454B - Revision B

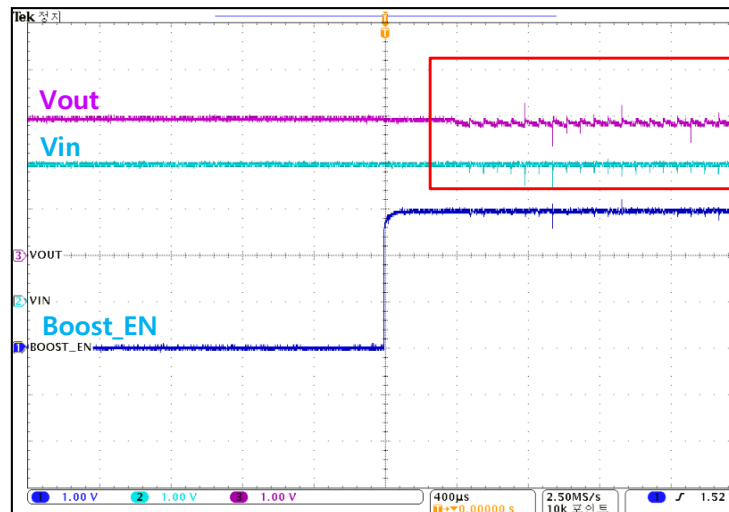
IMS (IM8132S) : Vout 3.3V Normal Output



TI (TPS61097A) : Vout 3.3V Normal Output



TI (TPS61097A) : Vout 3.3V not output, Vin voltage bypass output.



### 3. Review

#### 1) Review Boost Enable.

- Pull-down Resistance (R23) 100K -> Change to 1 Mohm & Remove : No Vout Improvement
- Voltage distribution by adding 100K as Serial to Boost\_EN line: No Vout improvement

#### 2) GND : Connecting GND to (-) terminal Direct : No Vout improvement

- Remove FET (Q1,Q2) and connect with 0 ohm resistance between D-S to connect with GND and (-) terminal Direct - (-) terminal PAD to some copper plates

#### 3) Power engineer (L2) 4.7uH -> 10uH: No Vout improvement

#### 4) Changing the C18, C19 correction number of Boost IC's Vin/Vout: No Vout improvement

- C18,C19 : 10uF -> 1uF : Vout voltage down
- C18,C19 : 10uF -> 22uF : Vout voltage slightly increased (0.02V increase)