# Test Procedure for the NCP1342PD90WGEVB PD3.0/QC3.0 demo board

The following steps detail the test procedure for 90W PD30/QC3.0 demoboard:

*Necessary Equipment:*
1 Current limited 90 ~ 264Vrms AC source (current limited to avoid board destruction in case of a defective part) (e.g. Chroma 61602)
1 Power Meter(e.g. YOKOGAWA WT210)
1 DC Volt-Meter able to measure up to 50V DC. (e.g. Agilent 34401A)
1 DC Amp-Meter able to measure up to 5A DC. (e.g. Agilent 34401A)
1 DC Electronic Load 0 - 60A (e.g. Chroma 6312A with 63115A Module )


**Figure 1: PD Test Setup for 90W PD/QC Demoboard**

**Test Procedure:**
**1. Connect the test setup as shown in Figure 1.**
**2. Apply an input voltage, Uin =90 - 264Vac**
**3. Apply Iout(load) = 0A**
**4. Check that Vout is no higher than 5.1V**
**5. Push PD or QC emulator mode key to change voltage**
**5. Increase or Decrease Iout(load)**
**6. Check that Vout is between 5V and 20V**
**7. Power down the load**
**8. Power down Vac**

## 9. End of test