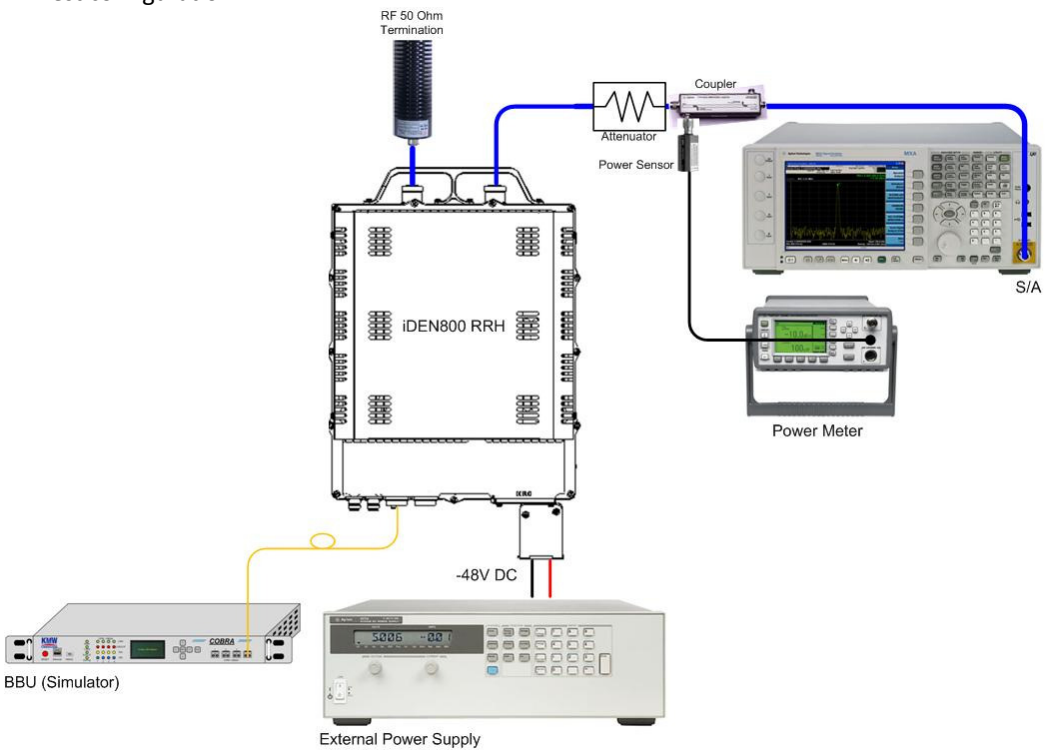
TX Output Power Calibarion Procedure

- 800MHz iDEN RRH -

Rev	Who	Date	Contents
V1.0	Andy Ku	09/13/2011	Created

- **TX Output Power Setting (Tx Gain setting)**

  - Test purpose : To set up TX output power.
  - Equipment : Power Supply(Agilent 6674A), Power Meter(Agilent E4419B), Power Sensor(Agilent E9300H), Spectrum Analyzer(Agilent N9020A), COBRA(KMW BBU simulator)
  - Specification : 50W (+47dBm@CDMA 1FA)
  - Test configuration.



  - Connect ANT A port to Power Meter and Spectrum Analyzer to measure the output power.
  - Connect ANT B port to RF 50 Ohm termination.
  - Set External Power Supply voltage(DC-48V) and current limit(11A).
  - Turn on the DC -48V power.
  - Set BBU simulator optic output power as -15dBfs for CDMA 1FA.
  - Set iDEN800 RRH 865.4MHz 1 carrier configuration at ANT A path and ANT B path with GUI.
  - Set Path A digital gain as default value (-2dB) and TX A RF attenuator offset value as default value (2dB).
  - Enable ANT A Path.
  - Check ANT A Port Output power value to use Power Meter whether +47dBm or not.
  - If ANT A output power dosen't meet the spec(+47dBm), adjust the TX RF attenuator to make it +47dBm.
  - Disable ANT A Path.
  - Connect ANT B port to Power Meter and Spectrum Analyzer to measure the output power.
  - Connect ANT A port to RF 50 Ohm termination.

- Set Path B digital gain as default value (-2dB) and TX B RF attenuator offset value as default value (2dB).
- Enable ANT B Path.
- Check ANT B Port Output power value to use Power Meter whether +47dBm or not.
- If ANT B output power dosen't meet the spec(+47dBm), adjust the TX RF attenuator to make it +47dBm.
- Disable ANT B Path