

# Tune up procedure

Tune up procedure shall be over the power range or at specific operating power levels.

1. It must provide an operational voltage (3.4 ~ 4.2V DC) to turn on the device and on one certain channel in service mode by means of company proprietary software.
2. Base station simulator (CMU 200) measures the Entertainment Tablet device specific RF characteristics.
3. The maximum gains of each individual device are adjusted until the target value met.

- **For GSM850 824-849MHz:**

$$PWR = 32.0\text{dBm} \pm 1\text{dBm}$$

- **For GPRS850 824-849MHz:**

$$PWR = 32.0\text{dBm} \pm 1\text{dBm}$$

- **For EDGE850 824-849MHz:**

$$PWR = 27.0\text{dBm} \pm 1\text{dBm}$$

- **For GSM1900 1850-1910MHz:**

$$PWR = 28.5\text{dBm} \pm 1\text{dBm}$$

- **For GPRS1900 1850-1910MHz:**

$$PWR = 28.5\text{dBm} \pm 1\text{dBm}$$

- **For EDGE1900 1850-1910MHz:**

$$PWR = 25.0\text{dBm} \pm 1\text{dBm}$$

- **For WCDMA850 824-849MHz:**

$$PWR = 22.0\text{dBm} \pm 1\text{dBm}$$

- **For WCDMA1900 1850-1980MHz:**

$$PWR = 2.0\text{dBm} \pm 1\text{dBm}$$

- **For WIFI 2412-2472MHz:**

$$\text{PWR} = 15.0\text{dBm} \pm 1\text{dBm}$$

- **For BT 2402-2480MHz:**

$$\text{PWR} = 6.0\text{dBm} \pm 1\text{dBm}$$

Then these appropriate gain settings are stored in each device individually.

The user has no possibility to change these settings later on, and during manufacturing each device will be individual calibrated. The measurement is done in fully calibrated setup, which is based on a **CMU 200** base station simulator. Furthermore, the highest power level is verified afterwards in a call measurement on three channels (low, middle and high).