

## Tune Up Procedure

During manufacturing each device is individually calibrated. Measurement is performed in a fully calibrated setup using an CMW500 base station simulator (system tester).

Measurement procedure is outlined below:

### Measurement Procedure:

1. Set the device to operational voltage and on a predefined channel in a special test mode.
2. The actual output power is measured at several power levels.
3. The gain factors of each individual device are adjusted until the target value is met. The appropriate gain control settings for each output power level are stored in each device individually (for each power level). The user has no possibility to change these settings later on.
4. The maximum gains of each individual device are adjusted and measured until the target value is met. The production target power with tolerance compiles with the maximum power in test report.
5. The Maximum PK or AV target power as below.

### Target Power for LTE

<b>Band 2</b>	<b>23±1</b> dBm
<b>Band 4</b>	<b>23±1</b> dBm
<b>Band 7</b>	<b>23±1</b> dBm
<b>Band 12</b>	<b>23±1</b> 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 in this range. The measurement is done in a fully calibrated setup, which is based on the base station simulator. Furthermore, the highest power level is verified afterwards in a call measurement on three channels (low, middle and high).