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Tune-up Procedure

During manufacturing each phone will be individually calibrated.

The measurement is done in a fully calibrated setup, which is based on Agilent 8960 (adjustment of gain factors) and Agilent 8960 or RS CMU200 (control of power levels).

Furthermore, the highest power level is verified afterwards in a call measurement on three channels (low, mid and high).

Procedure:

1. Set the phone to operational voltage and on one certain channel in a special service mode by means of company proprietary software.

2. The actual power is measured at several power levels.

3. The gain factors of each individual phone are adjusted via the Board-test SW using automatic adjustment arithmetic until the target value is met.

4. The tune-up target value is below:

```
WiFi
802.11b          PWR=18.5 dBm    target=18.5± 1dBm
802.11g          PWR=16 dBm      target=16± 1dBm
802.11n  HT20    PWR= 14.5 dBm    target=14.5± 1dBm


BT
GFSK             PWR=7 dBm    target=7± 1dBm
π /4 DQPSK       PWR=6 dBm    target=6± 1dBm
8DPSK            PWR=6 dBm     target=6± 1dBm
```

The appropriate gain control settings are stored in RF table (a special section in Flash marked with Read only and untouchable for end user) each phone individually (for each power level).

The user has no possibility to change these settings later on.

Zhizhou Gong

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