Star 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 (3.7 ~ 4.0V DC) to turn on the device and on one certain channel in service mode by means of company proprietary software.

2. Base station simulator (CMU200) measures the Mobile phone device specific RF characteristics.

3. The maximum gains of each individual device are adjusted until the target value met.

Tune-up Power		
Mode	Frequency Bands	Tune-up Power
GSM	GSM850	33.0dBm±1.5dB
	GSM1900	30.0dBm±1.5dB
GPRS	GPRS850(1slots)	33.0dBm±1.5dB
	GPRS850(2slots)	32.0dBm±1.5dB
	GPRS850(3slots)	30.0dBm±1.5dB
	GPRS850(4slots)	29.0dBm±1.5dB
	GPRS1900(1slots)	30.0dBm±1.5dB
	GPRS1900(2slots)	29.0dBm±1.5dB
	GPRS1900(3slots)	27.0dBm±1.5dB
	GPRS1900(4slots)	25.0dBm±1.5dB
WIFI	2.4GHz	802.11b: <12dBm 802.11g: <10dBm 802.11n(HT20):<8dBm (Average power)
BT2.1	2.4GHz	<4.0dBm / 1dBm (pk power)
BT4.0	2.4GHz	<2.0dBm / 1dBm (pk power)

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

CMU200 base station simulator. Furthermore, the highest power level is verified afterwards in a call

measurement on three channels (low, middle and high).