Tune-up Procedure of
TD213

During manufacturing each WWAN USB Adaptor will be individually calibrated.
The measurement is done in a fully calibrated setup, which is based on Agilent 8960 or R/S CMU200 (TX power, AFC, DRP, LNA Gain.....).

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

Procedure:

1. Set the Data Card 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 Data Card are adjusted via the Board-test SW using automatic adjustment arithmetic until the target value is met.

The appropriate gain control settings are stored in RF table (a special section in Nor Flash marked with Read only and untouchable for end user) each phone individually (for each power level).

Band	Tune-up power tolerance(dBm)
GSM 850	PCL = 5, PWR =33+-0.5
GPRS 850	PCL = 5, PWR =29.5+-0.5(1 slots)
	PCL = 5, PWR =28.5+-0.5(2 slots)
	PCL = 5, PWR =28+-0.5(3 slots)
	PCL = 5, PWR =27.5+-0.5(4 slots)
EDGE 850	PCL = 5, PWR =29.5+-0.5(1 slots)
	PCL = 5, PWR =28.5+-0.5(2 slots)
	PCL = 5, PWR =28+-0.5(3 slots)
	PCL = 5, PWR =27.5+-0.5(4 slots)
GSM1900	PCL = 0, PWR =30.5+-0.5
GPRS 1900	PCL=0,PWR= 29+-0.5(1 slots)
	PCL=0,PWR= 28+-0.5(2 slots)
	PCL=0,PWR= 27+-0.5(3 slots)
	PCL=0,PWR= 26.6+-0.5(4 slots)
EDGE 1900	PCL=0,PWR=29.2+-0.5(1 slots)
	PCL=0,PWR= 28+-0.5(2 slots)
	PCL=0,PWR= 27.5+-0.5(3 slots)
	PCL=0,PWR= 27+-0.5(4 slots)
WCDMA 850	Max output power =23.5(+1/-2)
WCDMA 1900	Max output power =23(+1/-2)