

Tune-up procedure for 101K

1. Scope

This document describes the tune-up procedure for 101K

2. TX power calibration set-up

All units are individually calibrated during manufacturing test.

Manufacturing test set-up consists of an Agilent Technologies E5515C connected to the RF connector by means of a semi-rigid cable. The loss of the semi-rigid cable is taken into account.

After calibration the TX power of the module is verified in a call using the E5515C as a base station.

3. Calibration data

3.1 GSM

DCS/PCS						
Power Control Level	ETSI Nominal Output Power (dBm)	ETSI Tolerance (dB)		Typical calibrated output power (dBm)	Calibration Tolerance(dB)	
Power Level 0	30	-2	+2	30	-1	+1
Power Level 1	28	-3	+3	28	-1	+1
Power Level 2	26	-3	+3	26	-1	+1
Power Level 3	24	-3	+3	24	-1	+1
Power Level 4	22	-3	+3	22	-1	+1
Power Level 5	20	-3	+3	20	-1	+1
Power Level 6	18	-3	+3	18	-1	+1
Power Level 7	16	-3	+3	16	-1	+1
Power Level 8	14	-3	+3	14	-1	+1
Power Level 9	12	-4	+4	12	-2	+2
Power Level 10	10	-4	+4	10	-2	+2
Power Level 11	8	-4	+4	8	-2	+2
Power Level 12	6	-4	+4	6	-2	+2
Power Level 13	4	-4	+4	4	-2	+2
Power Level 14	2	-5	+5	2	-2	+2
Power Level 15	0	-5	+5	0	-2	+2

EGSM						
Power Control Level	ETSI Nominal Output Power (dBm)	ETSI Tolerance (dB)		Typical calibrated output power (dBm)	Calibration Tolerance(dB)	
Power Level 5	33	-2	+2	33	-1	+1
Power Level 6	31	-3	+3	31	-1	+1
Power Level 7	29	-3	+3	29	-1	+1
Power Level 8	27	-3	+3	27	-1	+1
Power Level 9	25	-3	+3	25	-1	+1
Power Level 10	23	-3	+3	23	-1	+1
Power Level 11	21	-3	+3	21	-1	+1
Power Level 12	19	-3	+3	19	-1	+1
Power Level 13	17	-3	+3	17	-1	+1
Power Level 14	15	-3	+3	15	-1	+1
Power Level 15	13	-3	+3	13	-1	+1
Power Level 16	11	-5	+5	11	-2	+2
Power Level 17	9	-5	+5	9	-2	+2
Power Level 18	7	-5	+5	7	-2	+2
Power Level 19	5	-5	+5	5	-2	+2

3.2 WCDMA FDD band I

WCDMA FDD band I						
Power Control Level	ETSI Nominal Output Power (dBm)	ETSI Tolerance (dB)		Typical calibrated output power (dBm)	Calibration Tolerance(dB)	
MAX Power	24	-3	+1	23	-1	+1