



CINTERION
a Gemalto company

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Your letter of
Our reference
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Tune-up Procedure of Cinterion Wireless Module PHS8-P - FCC ID: QIPPHS8-P

GSM/UMTS Mode:

During manufacturing each module will be individually calibrated. The measurement is done in a fully calibrated setup, which is based on a Rohde&Schwarz CMW 500 base station simulator (system tester). The highest power level is verified in a service mode on one channel per band.

Procedure:

1. Set the module 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 module are adjusted until the target value is met. The appropriate gain control settings are stored in each module individually (for each power level). The user has no possibility to change these settings later on.
4. The RMS TX target output power and the tolerances see following table:

Band	RMS Target	Tolerance
WCDMA II (1900)	24dBm	-1 / +0,5dB
WCDMA V (850)	24dBm	-1 / +0,5dB
GSM850	33dBm	-1 / +0,5dB
GSM1900	30dBm	-1 / +0,5dB

Sincerely yours,

Dr. Jörg Rook
Head of System Test and Approval