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REF: **MPR implementation** in for FCC ID: **VV7-MBMF3507G-D**

Due to a known anomaly in the chipset firmware, conducted power variations in the HSUPA sub tests do not seem to be utilizing maximum power reduction (MPR). This MPR issue was detected by FW development team from Ericsson and after a deep analysis of the implication of this anomaly, Ericsson concluded that:

- From a regulatory point of view, FCC and other regulatory domains requirements, it was not relevant as far as testing has been carried out for HSPA in each band in the expected worst case configuration for HSDPA and HSUPA mode, however, the maximum SAR level is obtained in E/GPRS 850 configuration, which is consistent with the expected worst case outcome for this module.
- From 3GPP TS34.12 compliance point of view, it is not relevant because although power reduction in HSUPA mode is a possibility included in the specifications it is not a mandatory feature and the specifications allow the same output power in HSUPA and WCDMA modes.
- Ericsson quality system and production controls warranty the continuous compliance of the device with regulatory and 3GPP requirements by individual calibration of the modules in the production line to ensure the compliance with output power requirements in all the transmission modes of the device (GSM/GPRS/WCDMA/HSDPA/HSUPA).

Although this anomaly was not relevant for compliance, FW development team from Ericsson has continued to optimise the MPR implementation in the F3507g module.

The MPR implementation in this device is a result of the ongoing development of the Ericsson F3507G module. During this development the crest compensation and power turn down mechanisms were optimised throughout a number of iterations.

The patch to correct the unexpectedly high power in HSUPA mode is available and will be implemented this year in firmware release R2A. Test results confirm that the power level is then reduced as expected in MPR implementation.

Sincerely,



P.A.

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