

Kare Oksanen

19 October 2006

FCC ID: LJPRM-198H

Applicant: Nokia Corporation
731 Confirmation Number: TC844216
Date of Original Email: 10/13/2006

SAR

1) Please describe the GPRS capabilities of this device include the Class. Please explain GPRS usage at the ear as tested for.

This product is GPRS capability class B and multislot class 10. It is not capable for simultaneous data and speech transmission.

GPRS usage at the ear is for PoC (push-to-talk) functionality.

2) Please confirm that this device does not have an RF connector. Conducted power should be measured if so.

This device does not have RF connector, which could be utilized without modifying the device.

HAC RF emissions test

4) Please redo PMF. Slot average power is not applicable. Peak power is required. In your answer please include full measurement details such as 0 span plots. Also, please explain the calculation suggested in Section 4.4. T-coil

Measurements were done using peak power.

PMF has been measured as described in C63.19 standard and in Speag's Application Note, Section 28.8, "Definition / Determination of the Probe Modulation Factor":

Measuring setup is arranged as in System Validation by using a RF signal generator capable for GSM modulation e.g. Agilent ESG-D series (E4433B) generator with appropriate option (UN8).

CW (Continuous Wave) signal is adjusted on the same level as it is for system validation measurement. The field reading from DASY4 is documented.

In DASY4 crest factor = 1 and modulation frequency = 0 are used.

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Modulation is changed from CW signal to GSM signal: GMSK / 1 slot up.

Peak Amplitude of the GMSK modulated RF signal is kept exactly same as with CW. Field reading from DASY4 is documented. In DASY4:

crest factor = 8.3 and modulation frequency = 217 Hz.

Observed Modulation Factor = $E\text{-field}_{CW} / E\text{-field}_{GSM}$ or $H\text{-field}_{CW} / H\text{-field}_{GSM}$ Observed Crest Factor = $(\text{Modulation factor})^2$

Observed values are documented in the HAC report Salo_HAC_0637_17.

Section 4.4.

Measured dutycycles has been used.

5) Please explain the grant with HAC rating M3 T4 relative to the results given in the test report

In test report Salo_HAC_0637_18 HAC category of the tested device (RF emissions and T-coil requirements combined) are stated to be GSM850 M3/T3 GSM1900 M3/T3 even though T-coil rating alone would be T4.

6) TCB are not authorized to review filings with user modes to obtain frequency response compliance. Additional action by the FCC is being considered.

That was unfortunate mistake from our side, which was noticed after granting and therefore we notified the FCC immediately. We are waiting for your decision and hoping for quick resolution to allow us to re-submit this in time if it is so deemed necessary.