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Federal Communications Commission,
Authorization & Evaluation Division,
7435 Oakland Mills Road,
Columbia, MD. 21046

Attention: Equipment Authorization Branch

TEST RESULT VALIDITY BETWEEN QURNHL-12 AND QURNHL-12X

Radio frequency circuitry and radio frequency circuitry related software have been modified in QURNHL-12X compared to QURNHL-12. Reason for these modifications have been poor radiated power behavior in GSM1900 band. Input level for radio frequency power amplifier has been arisen with two changes.

First, values changed in two components C7008 from 2p2 to 1p5 and C7011 from 2p7 to 1p8. Then parameters in terminal software have been changed and temperature compensation for GSM1900 power levels has been added for better temperature behavior. After these changes high power tuning target has been arisen on GSM1900 band with 0.5 dB to 30.0 dBm. This gives 0.5 dB more to radiated power in GSM1900 band. Second modification is matching circuit (L7005 2n2H and C7029 1p0), which has been added to GSM1800/GSM1900 power amplifier output. This gives 0.5 dB more to radiated power in GSM1900 band.

Therefore Bluetooth (Bluetooth test report for NHL-12), EMC (EMC test report for NHL-12) and GSM850 (GSM850 test report for NHL-12) test results of QURNHL-12 are valid also for QURNHL-12X. However, radiated RF output power in GSM850 has been measured with the same EUT that SAR is measured. Valid RF power output results for QURNHL-12X are presented in test reports (No. 1032207 and No. 1032208 by Nemko) and in form 731.

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A handwritten signature in blue ink, appearing to read "Antti Tenhunen".

Antti Tenhunen
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