

To: William Graff
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08/11/2006

From: Tim Blom
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Re: FCC ID:PHX-RSU2510S

Applicant: NextNet Wireless, Inc.
Correspondence Number: 31084
731 Confirmation Number: TC463825
Date of Original E-Mail: 08/11/2006

Subject: audit cont.

Question 1:

Form731 has 2 W conducted; EMC has 1.98 W; EMC mentions 13 dBi antenna gain. Please address compliance with 27.50(h)(2) 2 W EIRP limit for mobile-station devices, including measured data where appropriate.

Reply:

47CFR27.50(h)(2) *Mobile and other user stations*. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

The NextNet Wireless RSU-2510-S residential subscriber unit product has been designed for use as a temporary fixed broadband wireless modem. From the FCC rules in Part 27.4 Terms and definitions, a Temporary fixed broadband station is defined as; *A broadband station used for the transmission of material from temporary unspecified points to a broadband station*. The NextNet Wireless RSU-2510-S user station is not a mobile device thereby making the second sentence of 27.50(h)(2) applicable to this product. The 13 dBi gain antenna information listed in this section of the test report was included for the Industry Canada requirements for this product.

Question 2:

Note 27.50(i) requires peak power, meaning 14% duty factor mentioned in grant note does not apply for output power evaluation.

Reply:

The measurement of the peak power was performed with a spectrum analyzer that is set to sweep only when the transmitter is enabled. By performing the measurement in this fashion, versus using a power meter, the power contained within the channel is measured directly during transmission and does not need to be adjusted for a transmitter duty factor. The 14.29% sourced-based time-averaging duty factor statement on the grant is in reference to radiation hazard requirements. The data presented in "5 Test Report Part 1a" is the peak transmitter power. The power is measured during transmission using a detector that is calibrated in terms of rms-equivalent voltage and does not include any adjustment for a transmitter duty factor.

Regards,
Tim Blom
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