RF Exposure / MPE Calculation

No. : 31HE0169-HO-02

Applicant	**:**	**Ricoh Company Ltd**
Type of Equipment	**:**	**Wireless LAN Module (11b/11g/11n-20/11n-40)**
Model No.	**:**	**SX-PCEGN-R**
FCC ID	**:**	**BBP-WLA1B01**
IC Number	**:**	**144D-WLA1B01**

Ricoh Company Ltd declares that Model : SX-PCEGN-R
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "SX-PCEGN-R" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 438.11 mW (Maximum peak output power)
G = 1.58 Numerical Antenna gain; equal to 2.00 dBi
r = 20.0 cm

For: SX-PCEGN-R **S = 0.13814 mW/cm^2**

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