

RF Exposure / SAR Statement

No. : 25BE0202-HO-2

Applicant : Sony Corporation
Type of Equipment : Personal Computer
Model No. : PCV-E21L
IC Number : 409B-PCVE21L

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "PCV-E21L" 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/cm² uncontrolled exposure limit. The Friis formula used was:

1. WLAN

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

Where

P = 216.27 mW (Maximum peak output power)
G = 1.25 Numerical Antenna gain; equal 0.98 dBi
r = 20.0 cm

$$S = 0.05392 \text{ mW/cm}^2$$

2. Receiver

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

Where

P = 0.91 mW (Maximum peak output power)
G = 1.64 Numerical Antenna gain; equal 2.14 dBi
r = 20.0 cm

$$S = 0.00030 \text{ mW/cm}^2$$

3. Total (1.WLAN + 2.Receiver)

$$S (\text{Receiver}) = 0.05392 \text{ mW/cm}^2$$

$$S (\text{WLAN}) = 0.00030 \text{ mW/cm}^2$$

$$\text{For: PCV-E21L} \quad S (\text{Total}) = 0.05422 \text{ mW/cm}^2$$

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