

US Tech:	12-0330
Client:	RFM
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Model:	WIT2492
FCC ID:	HSW-2492
IC ID:	<u>4492A-2492</u>

### **Maximum Public Exposure to RF (MPE) CFR 15.247 (i)**

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm<sup>2</sup> at a distance, **d**, of 20 cm from the EUT.

Therefore, for:

**Highest Gain CP Beam Antenna= 14 dBi**

Peak Power (Watts) = 0.068 (from Table 9 of Test Report)

Gain of Transmit Antenna = 14 dB<sub>i</sub> = 25.12, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG / 4\pi d^2) = EIRP/4A = 0.068 (25.12) / 4\pi \cdot 0.2^2 \\ &= 1.7082 / 0.503 = 3.3959 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.3396 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1.0 mW/cm<sup>2</sup>