

US Tech:
Client:
Issue Date:
Model:
FCC ID:
IC ID:

12-0330
RFM
12-20-2013
WIT2492
HSW-2492
4492A-2492

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/cm² 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 dBi = 25.12, numeric (from Table 4 of Test Report)
d = Distance = 20 cm = 0.2 m

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

which is << less than 1.0 mW/cm²