

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

12-0302
GA Tech
07-12-2012
IPRE Fluke 2
VPU-416D79

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 Antenna= +1 dBi

Peak Power (Watts) = 0.00427 (from Table 8 of Test Report)

Gain of Transmit Antenna = +1 dBi = 1.259, numeric (from Table 3 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG/4\pi d^2) = \text{EIRP}/4A = 0.00427 (1.259)/4*\pi*0.2*0.2 \\ &= 0.00538/0.503 = 0.0107 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.00107 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1.0 mW/cm²