

US Tech Test Report:
FCC ID:
Test Report Number:
Issue Date:
Customer:
Model:

FCC Part 15 Certification
2AD9R-CO1401
15-0060
March 13, 2015
Controlant EHF
CO 14.01

Maximum Public Exposure to RF (MPE)

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:

Measured maximum output power: 11.72 dBm
Highest Gain Antenna (Dipole antenna) = -1 dBi

Peak Power (Watts) = .0149 (Manufacture's claimed highest output power)
Gain of Transmit Antenna = -1 dBi = 0.79, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = EIRP / 4A = (.0149 * 0.79) / 4 * \pi * 0.2^2 \\ &= .0118 / .5027 = .0234 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= .0023 \text{ mW/cm}^2 \end{aligned}$$

which is < less than 1.0 mW/cm²