

## RF Exposure Requirements for FCC ID: AL8-W01

**Requirements:** §1.1307(b)(1) and §1.1307(b)(2): Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's Guidelines.

**Limits:** §1.1310: As specified in this section, the Maximum Permissible Exposure (MPE) Limit shall be used to evaluate the environmental impact to human exposure to radiofrequency (RF) radiation as specified in Sec 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Sec. 2.1093 of this Chapter.

**Limit for Uncontrolled exposure: 1 mW/cm<sup>2</sup> or 10 W/m<sup>2</sup>**

### MPE Calculation:

Equation from page 18 of OET 65, Edition 97-01

$$S = PG / 4\pi R^2$$

where, S = Power Density (**W/m<sup>2</sup>**)

P = Power Input to antenna (19.46 dBm; 0.088Watts)

G = Antenna Gain, in numeric (3 dBi; 1.995 numeric)

R = distance to the center of radiation of the antenna (0.2 m)

$$S = 0.088W * 1.995 / 4 * 3.14 * (0.2m)^2 = \mathbf{0.349 W/m^2}$$

EUT comply with 20cm distance exposure.