RF Exposure

The purpose of the letter: Environmental evaluation and exposure limit according to FCC CFR 47 part 1, §1.1307, §1.1310.

Belongs to the Test report No: 9412327172/1
5.8 GHz Smart Antenna Outdoor Radio Device
Model: RADWIN 2000 JET/RADWIN 5000 JET

Limit for power density for general population/uncontrolled exposure is 1 mW/cm^2 or 10 W/m^2.

The power density calculation is $S = (Pt / 4\pi r^2)$.

Where:

Pt - The transmitted power (EIRP) (mW)

r - The distance from the unit. (cm)

The limit 1 mW/cm^2 can be calculated from the above based on the following data:

Pt- the transmitted power which is equal to the maximum EIR power.

The maximum EIRP = 48.6 dBm = 72444 mW

Maximum allowed distance "r", where RF exposure limits may not be exceeded,

r = SQRT(72444/4π) and is more than 76 cm from the antenna main lobe.