



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
5.8 GHz Smart Antenna Outdoor Radio Device
Model: RADWIN 2000 JET/RADWIN 5000 JET
FCC ID: Q3K-BSA5XS

Limit for power density for general population/uncontrolled exposure is 1 mW/cm² or 10 W/m².

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

Where:

P_t - The transmitted power (EIRP) (mW)

r - The distance from the unit. (cm)

The limit 1 mW/cm² can be calculated from the above based on the following data:

P_t- 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,

$r = \sqrt{72444/4\pi}$ and is more than 76 cm from the antenna main lobe.