

ZB3001(45857) MPE calculation FCC ID: U2ZZB3001

The maximum measured power output is: 15.6dBm

The maximum antenna gain for integral antenna is: 1.1dBi

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm².

The Transmitter is using external antennas that operate at 20 cm or more from nearby persons.

The maximum permitted level is calculated using the general equation:

$$S = P' / 4\pi R^2$$

$$P' = 15.6\text{dBm} + 1.1\text{dBi} = 16.7\text{dBm} = 46.8\text{mW}$$

$$R = 20\text{cm}$$

$$\pi = 3.1416$$

Solving for S, the power density at 20 cm is: **0.093mW/cm²**