# U2ZBT4101 MPE calculation

Dear Reviewer,

The maximum measured power output is: 7.9dBm

The maximum antenna gain for integral antenna is: 1.9dBi

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

The Transmitter is using integral 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' = 7.9dBm+1.9dBi =9.8dBm=9.5mW

R = 20cm

$\pi$ = 3.1416

Solving for S, the power density at 20 cm is: **0.019mW/cm²**