U2ZBT4001 MPE calculation

Dear Reviewer,

The maximum measured power output is: 7.5dBm

The maximum antenna gain for integral antenna is: 0.3dBi

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' = 7.5 dBm + 0.3 dBi = 7.8 dBm = 6.0 mW

R = 20cm

 $\pi = 3.1416$

Solving for S, the power density at 20 cm is: 0.012mW/cm²