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***RF exposure requirements – ZTE MF10***

Dear Reviewer,

The maximum measured power output is

802.11b/g: 19.96dBm

the maximum antenna gain for integral antenna is

802.11b/g: 5dBi

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm<sup>2</sup>.

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:

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

$$802.11b/g: \quad P' = 19.96\text{dBm} + 5\text{dBi} = 24.96\text{dBm} = 313\text{mW}$$

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

$$\pi = 3.1416$$

Solving for S, the power density at 20 cm is

$$802.11b/g: \quad \mathbf{0.062\text{mW/cm}^2}$$

So the limit is kept.

Best Regard.

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