



RF exposure requirements – ZTE MF613

Dear Reviewer,

The maximum measured power output is

802.11b/g: 23.07dBm

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/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:

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

$$802.11b/g: \quad P' = 23.07\text{dBm} + 5\text{dBi} = 28.07\text{dBm} = 641\text{mW}$$

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

$$\pi = 3.1416$$

Solving for S, the power density at 20 cm is

$$802.11b/g: \quad \mathbf{0.128\text{mW/cm}^2}$$

So the limit is kept.

Best Regard.

2009-08-24

Xue Zhen

Telecommunication Metrology Center of MIIT

No 52 Huayuanbei Road, Haidian District Beijing P.R.China 100083