

RF exposure requirements – FCC ID: NCMOGTM353-W

Dear Examiner,

GTM353W is marketed without defined antenna. According to the limit in 47 CFR 1.1310, we get the value of the maximum antenna gain as follow:

The maximum measured power output in the 850 MHz band is 691.8 mW (31.8dBm, see 7layers test report 4_OPTI_0306_ERF_FCCb), The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm².

The transmitter is using indoor antennas that operate at 20 cm or more from nearby persons.

The maximum antenna gain G is calculated using the general equation:

$$S = P \cdot G / 4\pi R^2$$

$$S = 1 \text{ mW/cm}^2$$

$$P = 691.8 \text{ mW}$$

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

$$\pi = 3.1416$$

Solving for G; the maximum antenna gain is 8.6 dBi.

Please contact us if you have any additional questions.

Best Regards
7 layers AG

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