

RF exposure requirements – FCC ID: NCMOGLH-V2E

Dear Examiner,

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 1548.82 mW (31.9dBm, see 7layers test report MDE_OPTI_0610_FCCa; in page11)

The maximum permissible exposure is defined in 47 CFR 1.1310 with 0.5576 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:

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

$$S = 0,5576 \text{ mW/cm}^2$$

$$P = 1548.82 \text{ mW}$$

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

$$\pi = 3.1416$$

Solving for G; the maximum antenna gain is 2.5759 dBi.

See 7layers test report MDE_OPTI_0610_FCCa in page8, the antenna gain of Telsa T01111934 is 0.75dBi and Radiall EPA04-064 is 1.52 dBi. Both of them are less than 2.5759dBi. So the two antennas fulfill the condition of 47 CFR 1.1310

Best Regards
7 layers AG

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