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 1900 MHz band is 676.08 mW (28.3dBm, see 7layers test report MDE_OPTI_0610_FCCa in page12)

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:

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

S = 1 mW/cm²
P = 676.08 mW
R = 20 cm
π = 3.1416

Solving for G; the maximum antenna gain is 8.7127 dBi.

See 7layers test report MDE_OPTI_0610_FCCa in page8, the antenna gain of Telsa T01111934 is 0.17dBi and Radiall EPA04-064 is 0.39 dBi. Both of them are less than 8.7127dBi. So the two antennas fulfill the condition of 47 CFR 1.1310.

Best Regards
7 layers AG

i.A. Yao Jing