7 layers

RF exposure requirements - FCC ID: BCE-M5390BS

Dear Application Examiner,

The maximum measured power output is 26,18 mW (14,18 dBm), the maximum antenna gain is +1,5 dBi = numeric gain 1,41 (see also FCC test report).

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 permitted level is calculated using the general equation:

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

P = 26,18 mW,
G = 1,41 (numeric gain; +1,5 dBi = linear power gain relative to the isotropic radiator),
R = 20 cm
π = 3,1416

Solving for S, the power density at 20 cm is 0,0074 mW/cm².
So the 1 mW/cm² limit is kept.

Please contact us if you have any additional questions.

Best Regards

Thomas Hoell, 7 layers AG