RF exposure requirements - FCC ID: YM6-TEC0480

Dear Application Examiner,

The maximum measured peak conducted power output is 162.2 mW (22.1 dBm),
the maximum peak antenna gain is +3 dBi = numeric gain 2.0.

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm².

The RF Module may only be integrated into host devices categorized as “fixed” or “mobile” device where a separation distance of at least 20 cm between the device and it’s antenna(s) and any nearby persons can be assured under normal operating conditions.

The maximum permitted level is calculated using the general equation:

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

P = 162.2 mW,
G = 2.0 (numeric gain; +3 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 0,065 mW/cm².

So the 1 mW/cm² limit is kept under all circumstances.

Please contact us if you have any additional questions.

Best Regards

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