



MDE_MAGNET_1607

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FCC-ID : RX2EE0002

Maximum Permissible Exposure calculation

Dear Madams or Sirs,

please find here our Maximum Permissible Exposure calculations for the Bluetooth Module EE0002.

Best Regards

A handwritten signature in blue ink, appearing to be 'A. Ahakki', written over a horizontal line.

i.A.

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Maximum Permissible Exposure

(as specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure)

<i>Frequency range (MHz)</i>	<i>Power density (mW/cm²)</i>
300 – 1,500	f/1500
1,500 – 100,000	1.0

Calculations 2400-2483.5 MHz band

Maximum peak output power at antenna input terminal for Bluetooth/WLAN module:
0.00128 W

Prediction distance **R**: 20 cm
Prediction frequency: 2.4 GHz
Prediction Antenna Gain **G**: -2.0 dBi (WiFi Antenna)

MPE limit **S**: 1 mW/cm²

Equation OET bulletin 65, page 18, edition 97-01: $S = P * G / (4\pi R^2)$

S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the centre of radiation of the antenna

Maximum permissible power density: **0.0002 mW/cm²**

=> Delta to MPE Limit: **0.9998 mW/cm²**