

MPE Calculations : (Bluetooth)

- Frequency range : 2402 MHz ~ 2480 MHz
- Measured RF output power : 4.15 dBm
- Target Power & Tolerance : 3.00 dBm \pm 1.5 dB (Max. 4.5 dBm & Min. 1.5 dBm)
- Maximum antenna peak gain : 3.50 dBi
- **Maximum output power for the calculation 4.50 dBm**

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE calculation for this exposure is shown below.

<ul style="list-style-type: none"> ▪ EIRP = P + G = 4.50 dBm + 3.50 dBi = 8.00 dBm = 6.31 mW 	<ul style="list-style-type: none"> - Note P = Power input to the antenna(dBm) G = Power gain of the antenna(dBi)
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- Power density at the specific separation

<ul style="list-style-type: none"> ▪ S = $\text{EIRP} / (4 R^2 \pi)$ = 6.310 / (4 X 20² X π) = 0.001256 mW/cm² 	<ul style="list-style-type: none"> - Note S = Maximum power density(mW/cm²) EIRP = Equivalent Isotropic Radiated Power(mW) R = Distance to the center of the radiation of the antenna(20cm)
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Conclusion : The exposure condition of this device is compliant with FCC rules.

The maximum permissible exposure(MPE) of the general population/Uncontrolled for this device is 1.0 mW/cm².