

MPE Calculations : (Bluetooth)

- Frequency range : 2402 MHz ~ 2480 MHz
- Measured RF output power -2.04 dBm
- Target Power & Tolerance : -2.50 dBm $\pm$ 1.5 dB (Max. -1 dBm & Min. -4 dBm)
- Maximum antenna peak gain : 3.50 dBi
- **Maximum output power for the calculation -1.00 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.

▪ EIRP = P + G = -1.00 dBm + 3.50 dBi = 2.50 dBm = 1.779 mW	- 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

▪ S = EIRP / (4 R² π) = 1.779 / (4 X 20² X π) = 0.000354 mW/cm²	- 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.

MPE Calculations : (Bluetooth)

- Frequency range : 2402 MHz ~ 2480 MHz
- Measured RF output power -4.62 dBm
- Target Power & Tolerance : -5.50 dBm $\pm$ 1.5 dB (Max. -4 dBm & Min. -7 dBm)
- Maximum antenna peak gain : 3.50 dBi
- **Maximum output power for the calculation -4.00 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.

▪ EIRP = P + G = -4.00 dBm + 3.50 dBi = -0.50 dBm = 0.892 mW	- 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

▪ S = EIRP / (4 R² π) = 0.892 / (4 X 20² X π) = <u>0.000178</u> mW/cm²	- 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.