

MPE Calculations : (Bluetooth)

- Frequency range : 902.75 MHz ~ 927.25 MHz
- Measured RF output power : 28.56 dBm
- Target Power & Tolerance : 28.00 dBm $\pm$ 2 dB (Max. 30 dBm & Min. 26 dBm)
- Maximum antenna peak gain : 6.00 dBi
- **Maximum output power for the calculation 30.00 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 = 30.00 dBm + 6.00 dBi = 36.00 dBm = 3981.072 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 = $\text{EIRP} / (4 R^2 \pi)$ = 3981.072 / (4 X 20² X π) = 0.792010 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.