MPE Calculations : (Bluetooth)

- Frequency range : 902.75 MHz ~ 927.25 MHz
- Measured RF output power : 28.56 dBm
- Target Power & Tolerance : 28.00 dBm ± 2 dB (Max. 30 dBm & Min. 26 dBm)
- Maximum antenna peak gain : 6.00 dBi
- **Maximum output power for the calculatio 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)

- Power density at the specific separation

▪ **S** = EIRP / (4 R^2 π) = **3981.072** / (4 X 20^2 X π) = **0.792010** mW/cm^2	**- Note** S = Maximum power dencity(mW/cm^2) EIRP = Equivalent Isotropic Radiated Power(mW) R = Distance to the center of the radiation of the antenna(20cm)

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/cm^2.