MPE Calculations : (Bluetooth LE)

- Frequency range : 2402 MHz ~ 2480 MHz
- Measured RF output power : 2.79 dBm
- Target Power & Tolerance : 2.00 dBm ± 1 dB (Max. 3 dBm & Min. 1 dBm)
- Maximum antenna peak gain : 2.42 dBi
- **Maximum output power for the calculatio 3.00 dBm**

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

The MPE calculation for this exposure is shown below.

▪ **EIRP** = P + G = 3.00 dBm + 2.42 dBi = **5.42 dBm** = **3.484 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) = **3.484** / (4 X 20^2 X π) = **0.000694** 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.