MPE Calculation: BT

RF function or Mode	Frequency range (MHz)			Max Target Power (dBm)	ANT Gain (dBi)	Maximum EIRP (dBm)	Maximum EIRP (mW)	Maximum power density (mW/cm²)	Requriment (mW/cm²)
ВТ	2402.00	~	2480.00	0.00	0.77	0.77	1.194	0.001	1.000
		~							
		~							
		~							
		~							
		~							
		~							

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 sample calculation for this exposure is shown below.

• **S** = EIRP / (4
$$R^2 \pi$$
)

- Note

= $1.194 / (4 \times 20^2 \times \pi)$

S= Maximum power density(mW/cm²)

 $= 0.001 \text{ mW/cm}^2$

EIRP= Equivalent Isotropic Radiated Power(mW)

R= Distance to the center of the radiation of the antenn

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)			Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm²)	Averageing time (minutes)
0.3	~	1.34	614	1.63	*100	30
1.34	~	30	824/f	2.19 / f	*180 / f ²	30
30	~	300	27.5	0.073	0.2	30
300	~	1,500			f / 1500	30
1,500	~	100,000			1.0	30

Conclusion: The exposure condition of this device is compliant with FCC

MPE Calculation: WLAN

RF function or Mode	Frequency range (MHz)			Max Target Power (dBm)	ANT Gain (dBi)	Maximum EIRP (dBm)	Maximum EIRP (mW)	Maximum power density (mW/cm²)	Requriment (mW/cm²)
802.11b	2412.00	~	2462.00	17.50	2.46	19.96	99.084	0.020	1.000
802.11g	2412.00	~	2462.00	13.00	2.46	15.46	35.157	0.007	1.000
802.11n	2412.00	~	2462.00	13.00	2.46	15.46	35.157	0.007	1.000
		~							
		~							
		~							
		~							

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 sample calculation for this exposure is shown below.

• **S** = EIRP / (4 $R^2 \pi$)

= 99.084 / (4 X 20^2 X π) S= Maximum power density(mW/cm²)

0.02 mW/cm² EIRP= Equivalent Isotropic Radiated Power(mW)

- Note

R= Distance to the center of the radiation of the antenn

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)			Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm²)	Averageing time (minutes)
0.3	~	1.34	614	1.63	*100	30
1.34	~	30	824/f	2.19 / f	*180 / f ²	30
30	~	300	27.5	0.073	0.2	30
300	~	1,500			f / 1500	30
1,500	~	100,000			1.0	30

Conclusion: The exposure condition of this device is compliant with FCC