FCC ID: 2ADDW-TPABSP

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic	Power	Average			
Range(MHz)	Strength(V/m)	Field	Density(mW/cm ²)	Time			
		Strength(A/m)					
(A) Limits for Occupational/Control Exposures							
300-1500			F/300	6			
1500-100000			5	6			
(B) Limits for General Population/Uncontrol Exposures							
300-1500			F/1500	6			
1500-100000			1	30			

11.1 Friis transmission formula: Pd= (Pout*G)\ (4*pi*R²)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1416

R= distance between observation point and center of the radiator in 20cm Pd the limit of MPE, 1mW/cm². If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

11.2 Measurement Result

Mode	Max Measured power (dBm)	Antenna gain (dBi)	Antenna Gain Numeric	R (cm)	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
BT	6.72	0	1	20	0.0009	1
WIFI 2.4G	19.49	0	1	20	0.0177	1

MAX RF EXPOSURE EVALUATION

ВТ	WIFI 2.4G	Summation of Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
0.0009	0.0177	0.0186	<1