FCC ID: 2AJ55HOLYSTONEOW

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 Field	Power	Average Time				
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	_				
(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				

1.1 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.

1.2 Measurement Result

Wifi 5G Antenna gain (2T2R): 5.50 dBi

Frequency band	Measured power (dBm)	Tune-up power (dBm)	Max tune- up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
5150MHz- 5250MHz	18.51	17 to19	19	3.55	0.05607	1
5725MHz- 5850MHz	19.11	18 to 20	20	3.55	0.07059	1

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