FCC ID: 2AJ9T-F18M

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		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 cm

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

Channel Freq. (MHz)	modulation	conducted power (mW)	EIRP (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
2.412	11b	49.43	16.94	16dBm to 18dBm	18	1.23	0.01544	1
2.437	11b	49.66	16.96	16dBm to 18dBm	18	1.23	0.01544	1
2.462	11b	45.92	16.62	16dBm to 18dBm	18	1.23	0.01544	1
2.412	11g	53.58	17.29	17dBm to 19dBm	19	1.23	0.01944	1
2.437	11g	64.42	18.09	17dBm to 19dBm	19	1.23	0.01944	1
2.462	11g	68.55	18.36	17dBm to 19dBm	19	1.23	0.01944	1
2.412	11n HT20	52.12	17.17	17dBm to 19dBm	19	1.23	0.01944	1
2.437	11n HT20	64.86	18.12	17dBm to 19dBm	19	1.23	0.01944	1
2.462	11n HT20	66.53	18.23	17dBm to 19dBm	19	1.23	0.01944	1
2.422	11n HT40	52.00	17.16	17dBm to 19dBm	19	1.23	0.01944	1
2.437	11n HT40	63.68	18.04	17dBm to 19dBm	19	1.23	0.01944	1
2.452	11n HT40	67.92	18.32	17dBm to 19dBm	19	1.23	0.01944	1