

FCC ID: 2AJ9T-10306

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

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.

RF Exposure Information: The radiated output power of this device meets the limits of FCC/IC radio frequency exposure limits. This device should be operated with a minimum separation distance of 20cm (8 inches) between the



equipment and a person's body.

11.2 Measurement Result

Wifi 2.4G TestMode 11B Transmit Power Max: 15.93dBm

Antenna gain: 2.93 dBi

Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)	
15.93	14 to 16	16	1.96	0.01555	1	

RFID 13.56MHz, Antenna Gain: 0dBi

Operation Mode	Channel Number	Channel Emission Frequency Level(dBuV/m) (MHz)		EIRP (dBm)	Max power (mW)
RFID	1	13.56	36.37	-58.86	0
Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)		
0	1	0.00020	1		
* EIRP[dBm] = E[dBµV/m] + 20 log(d[meters]) - 104.77					

MAX RF EXPOSURE EVALUATION

	Wifi 2.4G	RFID	Summation of Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
H	0.01555	0.00020	0.01575	<1

*** End of Report ***