FCC ID: 2AJ9T-21007

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 Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm^2)	Average Time
(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*R^2)

Where

Pd= Power density in mW/cm^2

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, $1mW/cm^2$,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: 16.44dBm
Antenna gain: 2.37dBi

Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
14.07	13 to 15	15	1.73	0.01086	1

RFID 13.56MHz, Antenna Gain: 0dBi

Operation Mode	Channel Number	Channel Frequency (KHz)	Emission Level(dBuV/m)	EIRP (dBm)	Max power (mW)
RFID	1	125	44.98	-50.25	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)
0.01086	0.00020	0.01106	<1

*** End of Report ***