

RF Exposure Evaluation declaration

Product Name	Klipsch Heritage Wireless TableTop Bluetooth Small	
Model No.	the Three	
FCC ID	2AJAATHETHREE	

Applicant	DONGGUAN MEILOON ACOUSTIC EQUIPMENTS CO., LTD.	
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The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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1. RF Exposure Evaluation

1.1. Limits

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	Electric Field	Magnetic Field	Power Density	Average Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm^2)	(Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500			F/300	6
1500-100,000			5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500			F/1500	6
1500-100,000			1	30

F= Frequency in MHz

Friis Formula

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 = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18° C and 78° M RH.



1.3. Test Result of RF Exposure Evaluation

Product : Klipsch Heritage Wireless TableTop Bluetooth Small

Test Item : RF Exposure Evaluation

Test Site : No.3 OATS

For Bluetooth:

Operation Frequency	2402-2480MHz
Maximum Conducted output power	6.59dBm
Antenna gain	0.5dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Output Power to Antenna (mW)	Power Density at $R = 20 \text{ cm } (m\text{W/cm2})$
4.56036916	0.0010

Power density is lower than the limit (1 mW/cm2).

For 2.4GHz WLAN:

Operation Frequency	2412-2462MHz, 2422-2452MHz
Maximum Conducted output power	22.97dBm
Antenna gain	1.8dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Output Power to Antenna (mW)		Power Density at $R = 20 \text{ cm (mW/cm2)}$
	198.1527026	0.059666

Power density is lower than the limit (1 mW/cm2).

For 5GHz WLAN:

Operation Frequency	5180-5850MHz, 5190-5795MHz
Maximum Conducted output power	13.87dBm
Antenna gain	1.5dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Output Power to Antenna (mW)	Power Density at $R = 20 \text{ cm (mW/cm2)}$	
24.37810818	0.006851	

Power density is lower than the limit (1 mW/cm2).