RF Exposure Evaluation Report

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

Applicant : Dongguan Meiloon Acoustic Equipment Co., Ltd.
Address : 77, Yuanlin Road, Feng Huang Gang Ind Estate, Tangxia Town, 523727 Dongguan City, Guangdong Province, China.

Date of Receipt : Mar. 29, 2019
Date of Declaration : Apr 11, 2019
Report No. : 1930477R-SAUSP03V00
Report Version : V1.0

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 report of the equipment and evaluated measurement uncertainty herein.
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Applicant	Dongguan Meiloon Acoustic Equipment Co., Ltd.
Address	77, Yuanlin Road, Feng Huang Gang Ind Estate, Tangxia Town, 523727 Dongguan City, Guangdong Province, China.
Manufacturer	Klipsch Group, Inc.
Model No.	the Three II
FCC ID.	2AJAATHETHREEI
Trade Name	Klipsch
Applicable Standard	FCC 47 CFR 1.1310
Test Result	Complied

Documented By : Elephant Chen

(Adm. Assistant / Elephant Chen)

Tested By : wen Lee

(Senior Engineer / Wen Lee)

Approved By :

(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Klipsch Heritage Wireless TableTop Bluetooth Small
Trade Name	Klipsch
Model No.	the Three II
FCC ID.	2AJAATHETHREEI
Frequency Range	2402-2480MHz
Channel Number	79
Type of Modulation	FHSS: GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	IFA Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”
Contain Module	Fihonest / JS-BTM513

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Meiloon	N/A	IFA	0.5dBi for 2.4 GHz

2. RF Exposure Evaluation

2.1. 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 (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (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

2.2. Test Result of RF Exposure Evaluation

Product : Klipsch Heritage Wireless TableTop Bluetooth Small
Test Item : RF Exposure Evaluation

BT Peak Gain: 0.5dBi

Band	Frequency	Conducted Peak Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm^2)	Limit (mWc/m^2)	Pass/Fail
1Mbps	2441	5.47	3.52	0.001	1	Pass
3Mbps	2441	6.59	4.56	0.001	1	Pass

Note: The conducted output power is refer to report No.: 1930477R-RFUSP23V00 from the DEKRA.