



FCC TEST REPORT FCC ID: 2A2CFSW-RIB-100-1

Product	:	RGB LED Flood Light	
Model Name	:	SW-RIB-100-1	
Brand	:	N/A	
Report No.	:	PTC21040204341E-FC02	

Prepared for

Dong Guan City Shengwei Lighting Co., Ltd

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Dong Guan City Shengwei Lighting Co., Ltd

Address Floor 6, Building D, Keruixin Technology Park, Dasha Road,

Dasha Village, Dalingshan Town, Dongguan, Guangdong, China

Manufacture's name : Dong Guan City Shengwei Lighting Co., Ltd

Address Floor 6, Building D, Keruixin Technology Park, Dasha Road,

Dasha Village, Dalingshan Town, Dongguan, Guangdong, China

Product name : RGB LED Flood Light

Model name : SW-RIB-100-1

Test procedure KDB 447498 D01 General RF Exposure Guidance v06

Test Date : May 17 2021 to Jun 16 2021

Date of Issue : Jun 16 2021

Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

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2 Test Summary

Test Items	Test Requirement	Result		
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS		
Remark:				
N/A: Not Applicable				



3 General Information

3.1 General Description of E.U.T.

Product Name		RGB LED Flood Light		
Model Name	:	SW-RIB-100-1		
SW-RIB-20-1、SW-RBT-30-1、SW-RIB-30-1、SW-RBT-40-1、SW-RBT-50-1、SW-RBT-50-1、SW-RBT-60-1、SW-RIB-60-1、SW-RIB-70-1、SW-RIB-70-1、SW-RIB-100-1		Note:Internal electrical principle consistent different power size (high power		
Operation Frequency	:	2402-2480MHz		
Bluetooth Version	:	Bluetooth 5.0		
Type of Modulation	: GFSK			
Antenna installation:	ation: : Built-in Antenna			
Antenna Gain:		0 dBi		
Power supply		Input:100-240V 50-60Hz		
Hardware Version	:	N/A		
Software Version	:	N/A		



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500	<u> </u>	300	F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
	27.0	0.070	-	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$
Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
BLE	1	-2.651	0.54	0.0001	1	Pass

******THE END REPORT*****