TEST REPORT

Reference No.	:	WTD21D10105911W002
FCC ID	:	2AQA6-H6001A
Applicant	:	Shenzhen Intellirocks Tech. Co., Ltd
Address	:	No. 2901-2904, 3002, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong China
Manufacturer	:	NanChang Innotech Homesmart Co., Ltd
Address	:	1st to 5th floor, 2-1#, Nanchang Small and Medium-sized Enterprises Entrepreneurship Incubation Base (Phase II), Guowei Industrial Park, No. 669 Huangtang E Rd, Linkong Economic Zone, Nanchang, Jiangxi, China
Product	:	Smart LED Bulb
Model(s)	:	H6001
Brand Name	:	Govee
Standards	:	FCC Part 2.1091
Date of Receipt sample	:	2021-10-08
Date of Test	:	2021-10-08 to 2021-10-13
Date of Issue	:	2021-10-13
Test Result	:	**Pass**

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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2. Contents

3. Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD21D10105911W002	2021-10-08	2021-10-08 to 2021-10-13	2021-10-13	Original	-	Valid

4. General Information

4.1. General Description of E.U.T.

Product:	Smart LED Bulb
Model(s):	H6001
Model Description:	N/A
Bluetooth Version:	V5.0
Hardware Version:	V1.1
Software Version:	3.00.09

4.2. Details of E.U.T.

Operation Frequency:	2402~2480MHz
Max. RF output power:	3.39dBm
Type of Modulation:	GFSK
Antenna installation:	internal permanent antenna
Antenna Gain:	0dBi
Ratings:	120V~ 0.14A 60Hz 7W

5. Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	FCC Part 2.1091	PASS

6. RF Exposure

Test Requirement: FCC Part 2.1091

Evaluation Method: FCC Part 2.1091 & KDB 447498 D01 General RF Exposure Guidance v07

6.1. 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.

6.2. The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm^2)	Averaging Time $\|E\|^2$,$\|H\|^2$or S (minutes)
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			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm^2)	Averaging Time $\|E\|^2$,$\|H\|^2$ or S (minutes)
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
300-1500			F/1500	30
1500-100,000			1.0	30

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

6.3. MPE Calculation Method

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

S = power density (in appropriate units, e.g. mW/cm^2)
P = output power to the antenna (in appropriate units, e.g., mW).
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

From the peak EUT RF output power, the minimum mobile separation distance, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. conducted Output Power (dBm)	Max. conducted Output Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
0.00	1.000	3.39	2.18	0.000434	1	Compliance

6.4. Result: Compliance

No SAR measurement is required.

======End of Report======