



## FCC Test Report

**Report No.:** ACHJ-19JU1631LTSHPB-2

**FCC ID:** 2AUXM-MSSLA19

**Product:** SMART WIFI BULB

**Test Model:** MS-A19-9.5W-RGBCW

**Received Date:** Jun.17, 2019

**Test Date:** Jun.20 to Jul.02, 2019

**Issued Date:** Dec.12, 2019

**Applicant:** Haining Mingshuai Technology Lighting Co.,Ltd

**Address:** Building 1, No.327 Chuangye Road, Chang'an Town, Haining City, Jiaxing, China

**Manufacturer:** Haining Mingshuai Technology Lighting Co.,Ltd

**Address:** Building 1, No.327 Chuangye Road, Chang'an Town, Haining City, Jiaxing, China

**Issued By:** BUREAU VERITAS ADT (Shanghai) Corporation

**Lab Address:** No. 829, Xinzhuang Road, Shanghai, P.R.China (201612)

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## Release Control Record

Issue No.	Description	Date Issued
ACHJ-19JU1631LTSHPB-2	Original release	Dec.12, 2019



## 1 Certificate of Conformity

**Product:** SMART WIFI BULB

**Brand:** --

**Test Model:** MS-A19-9.5W-RGBCW

**Serial Model:** Refer to model list

**Applicant:** Haining Mingshuai Technology Lighting Co.,Ltd

**Test Date:** Jun.20 to Jul.02, 2019

**Standards:** FCC Part 2 (Section 2.1091)

**KDB 447498 D01 General RF Exposure Guidance v06**

**IEEE C95.1-1992**

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

A handwritten signature in black ink, appearing to read 'Will Yan'.

**Prepared by :**

, **Date:** Dec.12, 2019

Will Yan

Project Engineer

A handwritten signature in black ink, appearing to read 'Daniel Sun'.

**Approved by :**

, **Date:** Dec.12, 2019

Daniel Sun

RF Supervisor



## 2 Model List

Main Model No	Serial Model No	Difference1	Difference2
MS-A19-9.5W-RGBCW	MS-A19-7W-RGBCW MS-A19-5W-RGBCW	9.5W is all same as 7W and 5W except for different LED quantity in same LED PWB and different component ratings in same driver PWB ( The driver difference, please refer to BOM )	RGBCW is all same as RGBW except RGBCW has more LEDs(cold colour temperature) in same LED PWB and has more components in same driver PWB
MS-A19-9.5W-RGBW	MS-A19-7W-RGBW MS-A19-5W-RGBW		
MS-A19-9.5W-CW	MS-A19-7W-CW MS-A19-5W-CW		CW is all same as W except CW has more LEDs(cold colour temperature) in same LED PWB and has more components in same driver PWB



### 3 RF Exposure

#### 3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

#### 3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm<sup>2</sup>

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

#### 3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

#### 3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max Tune-up Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WLAN 2.4GHz					
2412-2462	12.56	2.5	20	0.0063819	1



**Conclusion: Pass**

**The calculation result of MPE is less than the limit.**

**--- END ---**