

## TEST REPORT

**Report Reference No.....:** MTEB25010124-H

**FCC ID.....:** 2A5QT-EG-M19K001

Compiled by

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Date of issue.....: Jan. 15,2025

**Representative Laboratory Name.:** Shenzhen Most Technology Service Co., Ltd.

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Nanshan, Shenzhen, Guangdong, China.

**Applicant's name.....:** Zhongshan Miaowang Electrical Appliance Co., Ltd.

Address.....: FL2,3.Building C No.10 Qingfu Road,Henglan town Zhongshan,  
Guangdong, PEOPLE'S REPUBLIC OF CHINA

**Test specification/ Standard.....:** 47 CFR Part 1.1307

47 CFR Part 2.1093

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description.....:** Remote Control Ceiling Fan Lamp

Trade Mark.....: N/A

Model/Type reference.....: EG-M19K001

Listed Models .....: N/A

Modulation Type.....: ASK

Operation Frequency.....: 433.92MHz

Hardware version.....: EG-M19K001

Software version .....: NY8A054E, CRC:7E5FF2

Rating.....: DC 3V by Batteries

Result.....: **PASS**

## TEST REPORT

Equipment under Test : Remote Control Ceiling Fan Lamp

Model /Type : EG-M19K001

Listed Models : N/A

Remark : N/A

Applicant : **Zhongshan Miaowang Electrical Appliance Co., Ltd.**

Address : FL2,3.Building C No.10 Qingfu Road,Henglan town Zhongshan,  
Guangdong, PEOPLE'S REPUBLIC OF CHINA

Manufacturer : **Zhongshan Miaowang Electrical Appliance Co., Ltd.**

Address : FL2,3.Building C No.10 Qingfu Road,Henglan town Zhongshan,  
Guangdong, PEOPLE'S REPUBLIC OF CHINA

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.01.15	Initial Issue	Alisa Luo

## 2.1 RF Exposure Compliance Requirement

### 2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

#### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 2.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$\left[ \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot$$

$$\left[ \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

## 2.1.3 EUT RF Exposure

$$\text{EIRP} = \text{PT} * \text{GT} = (\text{E} \times \text{D})^2 / 30$$

where:

PT = transmitter output power in watts,

GT = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,  $10^{(\text{dB}\mu\text{V/m})/20} / 10^6$ ,

D = measurement distance in meters (m)---3m,

So  $\text{PT} = (\text{E} \times \text{D})^2 / 30 / \text{GT}$

The worst case (refer to report MTEB25010124-R) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	78.41	Peak
433.92	51.33	Average

Antenna polarization: Vertical		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	79.31	Peak
433.92	51.34	Average

For 433.92MHz wireless:

Field strength=79.31dBuV/m

Ant gain 2dBi;so Ant numeric gain=1.58

$$\text{EIRP} = \text{PT} * \text{GT} = (\text{E} \times \text{D})^2 / 30 = (10^{(\text{dB}\mu\text{V/m})/20} / 10^6 * 3)^2 / 30 = 0.000026$$

$$\text{So PT} = \text{EIRP} / \text{GT} = 0.000026 \text{W} / 1 = 0.016 \text{mW}$$

$$\text{So } (0.016 \text{mW} / 5 \text{mm}) * \sqrt{0.43392 \text{GHz}} = 0.002112$$

exclusion=0.002112<3.0 for 1-g SAR

So the SAR report is not required.