

HEALTH TEST REPORT

For

Shenzhen Sonoff Technologies Co., Ltd.

433MHz Remote Control

Test Model: RM433

List Model No.: /

Prepared for : Shenzhen Sonoff Technologies Co., Ltd.
Address : Building 8, Room 1001, Lianhua industrial park, Longyuan Road, Hualian community, Longhua St, Longhua dist, Shenzhen, Guangdong, China.


Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : December 12, 2018
Number of tested samples : 1
Serial number : Prototype
Date of Test : December 12, 2018~ December 27, 2018
Date of Report : January 14, 2019



**HEALTH TEST REPORT
EN 62479: 2010**

Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

Report Reference No.	: LCS181207090AEC
Date of Issue	: January 14, 2019
Testing Laboratory Name	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
Testing Location/Procedure	: Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's Name	: Shenzhen Sonoff Technologies Co., Ltd.
Address	: Building 8, Room 1001, Lianhua industrial park, Longyuan Road, Hualian community, Longhua St, Longhua dist, Shenzhen, Guangdong, China.
Test Specification	
Standard	: EN 62479: 2010
Test Report Form No.	: LCSEMC-1.0
TRF Originator	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	: Dated 2017-06
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Test Item Description.	: 433MHz Remote Control
Trade Mark	: 
Test Model	: RM433
Ratings	: DC 12V (supplied by type 27A non recharged battery)
Result	: Positive

Compiled by:

Ryan Hu

Ryan Hu/ File administrators

Supervised by:

Calvin Weng

Calvin Weng/ Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager

HEALTH TEST REPORT

Test Report No. : LCS181207090AEC	<u>January 14, 2019</u> Date of issue
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Test Model.....	: RM433
EUT.....	: 433MHz Remote Control
Applicant.....	: Shenzhen Sonoff Technologies Co., Ltd.
Address.....	: Building 8, Room 1001, Lianhua industrial park, Longyuan Road, Hualian community, Longhua St, Longhua dist, Shenzhen, Guangdong, China.
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen Sonoff Technologies Co., Ltd.
Address.....	: Building 8, Room 1001, Lianhua industrial park, Longyuan Road, Hualian community, Longhua St, Longhua dist, Shenzhen, Guangdong, China.
Telephone.....	: /
Fax.....	: /
Factory.....	: /
Address.....	: /
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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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.

Revision History

Revision	Issue Date	Revisions	Revised By
000	January 14, 2019	Initial Issue	Gavin Liang

1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	: 433MHz Remote Control
Model No.	: RM433
Model Declaration	: /
Test Model	: RM433
Power Supply	: DC 12V (supplied by type 27A non recharged battery)
Hardware Version	: V1.0
Software Version	: V01
Transmitter	
Frequency Range	: 433.92MHz
Channel Number	: 1
Modulation Type	: ASK
Antenna Description	: PCB Antenna, 0dBi (Max.)

1.2. Objective

According to its specifications, the EUT must comply with the requirements of the following standards:
 EN 62479: 2010 –Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

1.3. Test Methodology

All measurements contained in this report were conducted with EN 62479: 2010.

1.4. Description of Test Facility

FCC Registration Number. is 254912.
 Industry Canada Registration Number. is 9642A-1.
 ESMD Registration Number. is ARCB0108.
 UL Registration Number. is 100571-492.
 TUV SUD Registration Number. is SCN1081.
 TUV RH Registration Number. is UA 50296516-001.
 NVLAP Registration Code is 600167-0.

1.5. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
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1.6. External I/O

I/O Port Description	Quantity	Cable
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1.7. Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas:
 tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with

pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

1.8. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.10dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V

2. HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

2.1 Test Methodology

2.2.1. General description of applied standards

According to its specifications, the EUT must comply with the requirements of the following standards:
EN 62479- Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).

2.2.2. Description of test modes

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

2.2 Test limit

If the average power emitted by apparatus operating in the frequency range 10 MHz – 300GHz is less than or equal to 20 mw and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

2.3 Test Results

Since max. output power at wireless is 3.08mW(according to radio test report LCS181207090AEB) less than 20mW specified in EN 62479. This unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).

The unit complies with the EN 62479 for RF exposure requirement.

No non-compliance noted.

-----THE END OF REPORT-----