



TEST REPORT

Report No.: **CTC20231628E07**


Applicant: **Shenzhen Sonoff Technologies Co.,Ltd.**

Address.....: 3F & 6F, Bldg A, No. 663, Bulong Rd, Shenzhen, Guangdong, China

Manufacturer.....: Shenzhen Sonoff Technologies Co.,Ltd.

Address.....: 3F & 6F, Bldg A, No. 663, Bulong Rd, Shenzhen, Guangdong, China

Product Name: **eWeLink-Remote Switch Mate**

Trade Mark: , Sonoff

Model/Type reference.....: S-MATE2

Listed Model(s): /

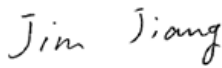
Standard: **EN 62479:2010**
EN 50663:2017


Date of receipt of test sample...: Jul. 27, 2023


Date of testing.....: Jul. 27, 2023 to Sept. 11, 2023

Date of issue.....: Sept. 12, 2023

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

Compiled by:
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Approved by:
(Printed name+signature) Totti Zhao 



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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to 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)

[EN 50663:2017](#) –Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

1.2. Report Version

Revised No.	Date of issue	Description
01	Sept. 12, 2023	Original

1.3. Test Facility

CTC Laboratories, Inc.

Add: 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug. 26, 2017.






2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Shenzhen Sonoff Technologies Co.,Ltd.
Address:	3F & 6F, Bldg A, No. 663, Bulong Rd, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Sonoff Technologies Co.,Ltd.
Address:	3F & 6F, Bldg A, No. 663, Bulong Rd, Shenzhen, Guangdong, China

2.2. General Description of EUT

Product Name:	eWeLink-Remote Switch Mate
Trade Mark:	 SONOFF, Sonoff
Model/Type reference:	S-MATE2
Listed Model(s):	/
Model Difference:	/
Power supply:	DC3V from lithium cell
Hardware version:	V1.2
Software version:	V1.0.1
Sample ID:	CTC230619-017-S001
2.4GHz Specification	
Modulation:	GFSK
Operation Frequency:	2426MHz
Antenna type:	PCB Antenna
Antenna gain:	-0.17dBi





3. TEST ITEM AND RESULTS

3.1. RF Exposure

Limit

20mW (According to the table A.1)

Table A.1 – Example values of SAR-based P_{max} for some cases described by ICNIRP, IEEE Std C95.1-1999 and IEEE Std C95.1-2005

Guideline / Standard	SAR limit, SAR_{max} W/kg	Averaging mass, m g	P_{max} mW	Exposure tier ^a	Region of body ^a
ICNIRP [1]	2	10	20	General public	Head and trunk
	4	10	40	General public	Limbs
	10	10	100	Occupational	Head and trunk
	20	10	200	Occupational	Limbs
IEEE Std C95.1-1999 [2]	1,6	1	1,6	Uncontrolled environment	Head, trunk, arms, legs
	4	10	40	Uncontrolled environment	Hands, wrists, feet and ankles
	8	1	8	Controlled environment	Head, trunk, arms, legs
	20	10	200	Controlled environment	Hands, wrists, feet and ankles
IEEE Std C95.1-2005 [3]	2	10	20	Action level	Body except extremities and pinnae
	4	10	40	Action level	Extremities and pinnae
	10	10	100	Controlled environment	Body except extremities and pinnae
	20	10	200	Controlled environment	Extremities and pinnae

^a Consult the appropriate standard for more information and definitions of terms.

Test Results

Modulation Type	Test Frequency (MHz)	EIRP (dBm)	Output Power (mW)	Limit (mW)	Result
GFSK	2426	4.77	3.00	20.00	Pass

Note:

1. Calculate by Worst-case mode.
2. For a more detailed features description, please refer to the RF Test Report.

*****THE END*****