



# CTC Laboratories, Inc.

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## TEST REPORT

**Report No.** .....: **CTC20231793E04**


**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** .....: **Zigbee Human Presence Sensor**

Trade Mark .....: , Sonoff

Model/Type reference.....: SNZB-06P

Listed Model(s) .....: /

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

Date of receipt of test sample...: Jul. 30, 2023

Date of testing.....: Jul. 30, 2023 to Sept. 25, 2023

Date of issue.....: Sept. 26, 2023

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

Compiled by:  
(Printed name+signature) Jim Jiang

*Jim Jiang*

Supervised by:  
(Printed name+signature) Eric Zhang

*Eric Zhang*

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. 26, 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:	Zigbee Human Presence Sensor
Trade Mark:	 SONOFF, Sonoff
Model/Type reference:	SNZB-06P
Listed Model(s):	/
Model Difference:	/
Power supply:	DC5V 1A
Hardware version:	V1.4
Software version:	V1.0.0
Sample ID:	CTC230529-068-S001, CTC230529-068-S002
<b>Zigbee 3.0</b>	
Modulation:	OQPSK
Operation Band:	2405MHz~2480MHz
Antenna type:	PCB Antenna
Antenna gain:	2.07dBi
<b>SRD</b>	
Modulation:	FMCW
Operation Band:	5725-5875MHz
Antenna type:	Patch Antenna
Antenna gain:	2.0dBi





### 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 <sup>a</sup>	Region of body <sup>a</sup>
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

<sup>a</sup> 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
OQPSK	2405-2480	7.20	5.25	20.00	Pass
FMCW	5725-5875	1.18	1.31	20.00	Pass

OQPSK and FMCW can transmit simultaneously.

Modulation Type	Test Frequency (MHz)	Total EIRP (dBm)	Total Output Power (mW)	Limit (mW)	Result
OQPSK	2405-2480	8.38	6.89	20.00	Pass
FMCW	5725-5875				

Note:

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

\*\*\*\*\*THE END\*\*\*\*\*