

RF Exposure Report

FCC ID: 2BOP6-SAVW520

Report No. : SSP25040026-2E

Applicant : Huizhou True Love Intelligent Technology Co., Ltd

Product Name : Electric toothbrush

Model Name : SA-VW-520

Test Standard : FCC CFR 47 PART 1, 1.1310

Date of Issue : 2025-04-10



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen,
Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

| | |
|--|---|
| Applicant: | Huizhou True Love Intelligent Technology Co., Ltd 4th Floor, No. 4 Liantangmian 1st Street, Shiwei Village, Sanhe Street, Huiyang District, Huizhou City, China |
| Manufacturer: | Huizhou True Love Intelligent Technology Co., Ltd 4th Floor, No. 4 Liantangmian 1st Street, Shiwei Village, Sanhe Street, Huiyang District, Huizhou City, China |
| Product Name: | Electric toothbrush |
| Brand Name: | - |
| Main Model: | SA-VW-520 |
| Series Models: | See section 1.1 (Page 5) |
| Test Standard: | FCC CFR 47 PART 1, 1.1310 KDB 680106 D01 Wireless Power Transfer v04 |
| Date of Test | 2025-04-01 to 2025-04-10 |
| Test Result: | PASS |
| Tested By | <u>Coke Huang</u> (Coke Huang) |
| Reviewed By: | <u>Lieber Ouyang</u> (Lieber Ouyang) |
| Authorized Signatory: | <u>Lahm Peng</u> (Lahm Peng) |
| <p>Note : This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.</p> | |



CONTENTS

| | |
|---|-----------|
| 1. General Information..... | 5 |
| 1.1 Product Information | 5 |
| 1.2 Test Setup Information..... | 6 |
| 1.3 Test Facilities..... | 6 |
| 1.4 List of Measurement Instruments | 7 |
| 1.5 Measurement Uncertainty..... | 7 |
| 2. RF Exposure..... | 8 |
| 2.1 Standard and Limit..... | 8 |
| 2.2 Test Procedures | 8 |
| 2.3 Test Data and Results | 9 |
| Annex A. Test Photos..... | 10 |

Revision History

| Revision | Issue Date | Description | Revised By |
|----------|------------|-----------------|------------|
| V1.0 | 2025-04-10 | Initial Release | Lahm Peng |
| | | | |
| | | | |
| | | | |
| | | | |

1. General Information

1.1 Product Information

| | |
|---|---|
| Product Name: | Electric toothbrush |
| Trade Name: | - |
| Main Model: | SA-VW-520 |
| Series Models: | TL-520, TL-521, TL-522, TL-523, TL-524, ZA03, SA-1-C1 PLUS-1, SA-1-C1 PLUS-2, SA-1-V1 PLUS-M4 |
| Rated Voltage: | DC 5V by USB |
| Power Adapter: | - |
| Battery: | - |
| Test Sample No: | SSP25040026-1 |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Note 1: The test data is gathered from a production sample, provided by the manufacturer. | |
| Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer. | |

| Wireless Specification | |
|------------------------|--|
| Wireless Standard: | WPC (QI) |
| Operating Frequency: | 110.1~205kHz |
| Max. Field Strength: | 65.56 dBuV/m |
| Modulation: | FSK |
| Antenna Gain: | 0dBi |
| Type of Antenna: | Coil Antenna |
| Type of Device: | <input type="checkbox"/> Portable Device <input checked="" type="checkbox"/> Mobile Device |

1.2 Test Setup Information

| List of Test Modes | | | |
|---|-------------------|---------------------|----------------------|
| Test Mode | Description | Remark | |
| TM1 | Wireless Charging | 5W (Mobile Phone) | |
| Note: All modes have been tested and only the worst mode TM1 data is represented in the report. | | | |
| List and Details of Auxiliary Cable | | | |
| Description | Length (cm) | Shielded/Unshielded | With/Without Ferrite |
| | | | |
| - | - | - | - |
| List and Details of Auxiliary Equipment | | | |
| Description | Manufacturer | Model | Serial Number |
| adapter | HUAWEI | HW-110600C02 | JL28L4P2D06114 |
| Electric toothbrush | True Love | SA-VW-520 | - |

1.3 Test Facilities

| | |
|--|--|
| Laboratory Name: | Shenzhen CCUT Quality Technology Co., Ltd. 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China |
| CNAS Laboratory No.: | L18863 |
| A2LA Certificate No.: | 6893.01 |
| FCC Registration No.: | 583813 |
| ISED Registration No.: | CN0164 |
| All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China. | |

1.4 List of Measurement Instruments

| Description | Manufacturer | Model | Serial Number | Cal. Date | Due. Date |
|-----------------------------------|--------------|---------|---------------|------------|------------|
| Electromagnet-ic radiation tester | WAVECONTROL | SMP3 | 23SL0158 | 2024-10-16 | 2025-10-15 |
| Electromagnet-ic field probe | WAVECONTROL | WP400-3 | 24WP240067 | 2024-10-16 | 2025-10-15 |
| Test Software | WAVECONTROL | SMP | N/A | N/A | N/A |

1.5 Measurement Uncertainty

| Test Item | Uncertainty |
|-----------|-------------|
| E-field | 0.6 dB |
| H-field | 0.6 dB |

2. RF Exposure

2.1 Standard and Limit

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

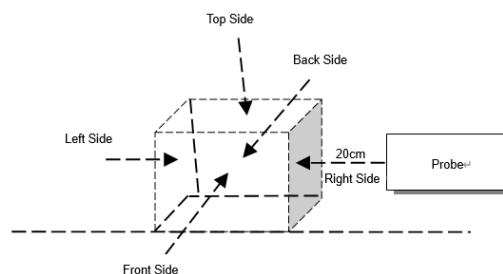
Limits for Maximum Permissible Exposure (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposures | | | | |
| 0.3–3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0–30 | 1842/f | 4.89/f | *(900/f ²) | 6 |
| 30–300 | 61.4 | 0.163 | 1.0 | 6 |
| 300–1500 | | | f/300 | 6 |
| 1500–100,000 | | | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3–1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34–30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30–300 | 27.5 | 0.073 | 0.2 | 30 |
| 300–1500 | | | f/1500 | 30 |
| 1500–100,000 | | | 1.0 | 30 |

f = frequency in MHz

2.2 Test Procedures

- 1) The RF exposure test was performed in anechoic chamber.
- 2) E and H-field measurements should be made with the center of the probe at a distance of 20m surrounding the device and 20 cm above the top surface of the primary/client pair.
These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.



Test Setup Block Diagram

2.3 Test Data and Results

The report reflects data for the worst mode only.

Test condition 1: Mode 1 operating mode with client device.

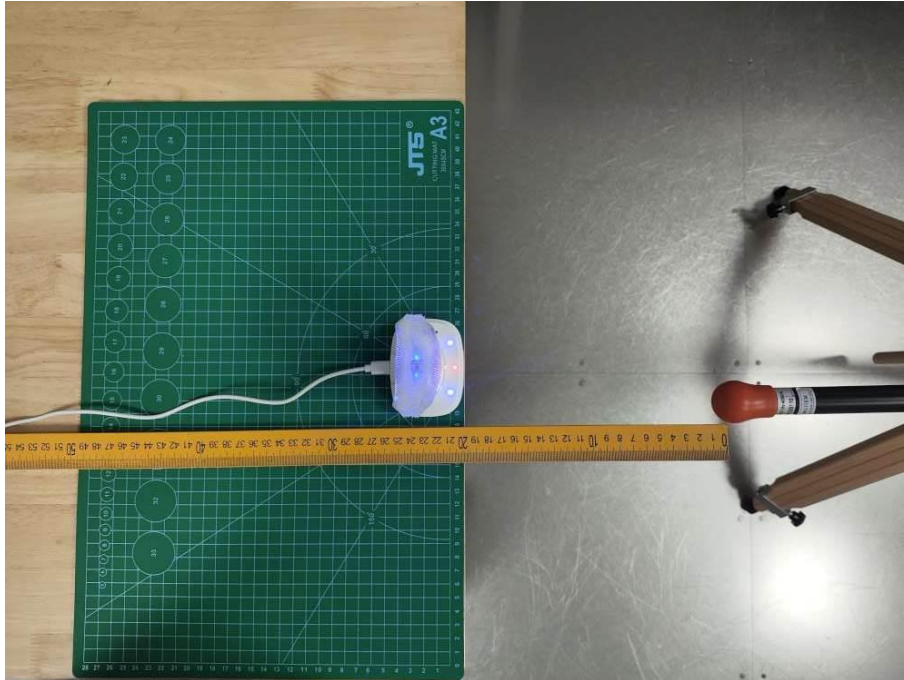
| Maximum permissible Exposure (Phone: 110.1kHz-205kHz) | | | | |
|---|------------|-------------------|--------------|--------------|
| Battery levels | Test sides | Test distance(cm) | E-field(V/m) | H-field(A/m) |
| <1% | Top | 20 | 0.60 | 0.041 |
| <1% | Left | 20 | 1.28 | 0.041 |
| <1% | Right | 20 | 1.27 | 0.040 |
| <1% | Front | 20 | 1.39 | 0.043 |
| <1% | Back | 20 | 1.06 | 0.044 |
| Limit | | | 614 | 1.63 |
| 50% Margin Limit | | | 307 | 0.815 |

| Maximum permissible Exposure (Phone: 110.1kHz-205kHz) | | | | |
|---|------------|-------------------|--------------|--------------|
| Battery levels | Test sides | Test distance(cm) | E-field(V/m) | H-field(A/m) |
| <50% | Top | 20 | 0.62 | 0.041 |
| <50% | Left | 20 | 1.29 | 0.040 |
| <50% | Right | 20 | 1.25 | 0.041 |
| <50% | Front | 20 | 1.37 | 0.042 |
| <50% | Back | 20 | 1.08 | 0.045 |
| Limit | | | 614 | 1.63 |
| 50% Margin Limit | | | 307 | 0.815 |

| Maximum permissible Exposure (Phone: 110.1kHz-205kHz) | | | | |
|---|------------|-------------------|--------------|--------------|
| Battery levels | Test sides | Test distance(cm) | E-field(V/m) | H-field(A/m) |
| <99% | Top | 20 | 0.63 | 0.042 |
| <99% | Left | 20 | 1.31 | 0.041 |
| <99% | Right | 20 | 1.29 | 0.042 |
| <99% | Front | 20 | 1.36 | 0.043 |
| <99% | Back | 20 | 1.09 | 0.043 |
| Limit | | | 614 | 1.63 |
| 50% Margin Limit | | | 307 | 0.815 |

Annex A. Test Photos

Test View 1



***** END OF REPORT *****