


# TEST REPORT

 <b>CTK Co., Ltd.</b> (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970 Fax: +82-31-624-9501	Report No.: CTK-2025-01621 Page (1) / (10) Pages	
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## 1. Applicant

- Name : COOLSSHA
- Address : 818,819, 95 Maehwasandan-ro, Siheung-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2025-05-15

## 2. Manufacturer

- Name : COOLSSHA
- Address : 818,819, 95 Maehwasandan-ro, Siheung-si, Gyeonggi-do, Republic of Korea

## 3. Use of Report : For FCC Certification

## 4. Test Sample / Model : Auto toothbrush / CS-501000D

## 5. Date of Test : 2025-06-16

## 6. Test Standard(method) used : FCC 47 CFR part 1 subpart I 1.1310


## 7. Testing Environment: Temp.: (22 ± 1) °C, Humidity: (47 ± 3) % R.H.

## 8. Test Results : Compliance

## 9. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

(Address : (Unhak-Dong) 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,  
Gyeonggi-do, Republic of Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This report cannot be reproduced or copied without the written consent of CTK.

Approval	Tested by  Ji-Hye, Kim: (Signature)	Technical Manager  Young-taek Lee: (Signature)
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2025-06-23

**CTK Co., Ltd.**

## REPORT REVISION HISTORY

Date	Revision	Page No
2025-06-23	Issued (CTK-2025-01621)	all

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## 1. General Description

### 1.1 Client Information

<b>Company</b>	COOLSSHA
<b>Contact Point</b>	818,819, 95 Maehwasandan-ro, Siheung-si, Gyeonggi-do, Republic of Korea
<b>Contact Person</b>	Name : Kwon miran E-mail : coolsha4100@naver.com

### 1.2 Product Information

<b>FCC ID</b>	2BQAU-CS-501000D
<b>Product Description</b>	Auto toothbrush
<b>Model name</b>	CS-501000D
<b>Variant Model name</b>	-
<b>Charging Frequency</b>	64.99 kHz
<b>Charging Power</b>	0.4 W
<b>Power Source</b>	DC 5 V

## 2. Accreditations

### 2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

### 2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

### 3. RF Exposure Assessment

#### 3.1 Maximum Permissible Exposure

##### Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500	-	-	f/300	6
1,500-100,000	-	-	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
<b>0.3-1.34</b>	<b>614</b>	<b>1.63</b>	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500	-	-	f/1500	30
1,500-100,000	-	-	1.0	30

Note 1 : f = frequency in MHz; \*Plane-wave equivalent power density  
 Note 2 : For the applicable limit, see FCC 1.1310

##### Test method

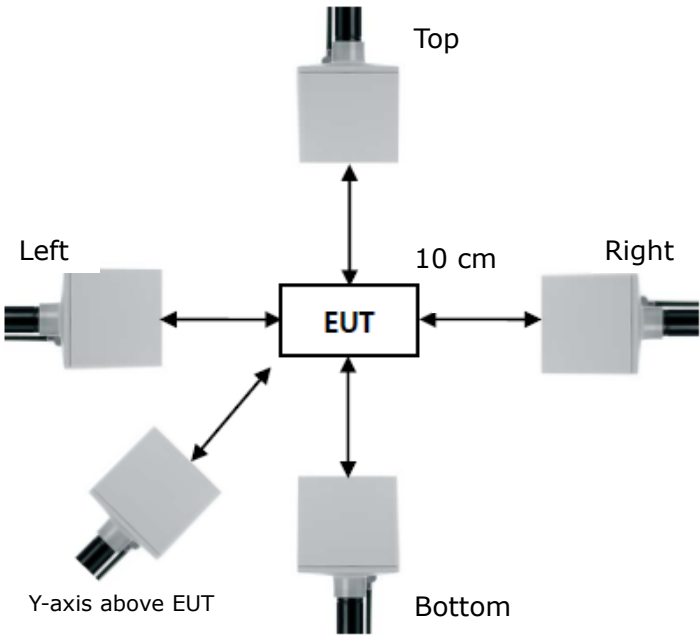
- Performed aggregate both leakage E-field and H-field at surrounding the device from all simultaneous transmitting coils.
- During testing, the EUT was placed on a non-conductive table top and the ancillary equipment (e.g., WPT Load) was placed on the EUT for charging. Maximum E-field and H-field measurement were tested 10 cm from each side of the EUT. Along the side of the EUT to side of E-field probe and H-field probe were positioned at the location to search maximum field strength.

### Peripheral Devices

No.	Device	Manufacturer	Model No.	Serial No.
1	WPT Load	-	-	-

Note : WPT load was provided by manufacturer.

### Test Setup



## Equipment approval considerations item 5.b) of KDB 680106 D01 v03r01

### ※ Equipment approval considerations

(1) Power transfer frequency is less than 1 MHz.

- Meet the requirements.

(2) Output power from each primary coil is less than or equal to 15 watts.

- Meet the requirements.

(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

- Meet the requirements.

(4) Client device is placed directly in contact with the transmitter.

- Meet the requirements.

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

- Not Applicable.

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

- Meet the requirements.



## Test results

Maximum Permissible Exposure		
Probe from EUT Side	E-field (V/m)	H-field (A/m)
Bottom	1.136 0	0.502 8
Left	0.780 3	0.233 3
Top	1.134 6	0.144 3
Right	0.755 5	0.152 6
Y-axis above EUT	3.330 3	0.747 8
<b>Limit</b>	<b>614</b>	<b>1.63</b>

## Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.  
 Coverage factor  $k = 2$ , Confidence levels of 95 %

item	Uncertainty
H-field	15 % (C.L. : Approx. 95 %, $k = 2$ )
E-field	15 % (C.L. : Approx. 95 %, $k = 2$ )

## APPENDIX A – Test Equipment Used For Tests

No.	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	170WX91010	2024-10-15	2025-10-15
2	EHP200-TS Software	Narda	EHP200-TS	650.000.207	-	-
3	Note Computer	HP	15-bs563TU	CND7253R6N	-	-

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