

# RF Exposure Evaluation Report

**Product** : quip Smart Rev Oscillating Toothbrush  
**Trade mark** : quip  
**Model/Type reference** : Model D  
**Serial Number** : N/A  
**Report Number** : EED32R80074202  
**FCC ID** : 2AT6D-D  
**Date of Issue** : Jun. 20, 2025  
**Test Standards** : 47 CFR Part 1.1307  
47 CFR Part 1.1310  
47 CFR Part 2.1091  
47 CFR Part 2.1093  
KDB 447498 D04 Interim General RF  
Exposure Guidance v01  
**Test result** : PASS

Prepared for:

**QUIP NYC INC.**

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Prepared by:

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Date:

Jun. 20, 2025

Check No.: 1121150125

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## 2 General Information

### 2.1 Client Information

|                          |                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------|
| Applicant:               | QUIP NYC INC.                                                                                                     |
| Address of Applicant:    | 45 Main St. Suite 630, Brooklyn New York, 11201 UNITED STATES                                                     |
| Manufacturer:            | QUIP NYC INC.                                                                                                     |
| Address of Manufacturer: | 45 Main St. Suite 630, Brooklyn New York, 11201 UNITED STATES                                                     |
| Factory:                 | HAYCO INDUSTRIES (SHENZHEN) LTD.                                                                                  |
| Address of Factory:      | Building C3, C4, C6 and C1, No. 2 Longshan Fifth Road, Luotian, Yanluo, Baoan Di strict, Shenzhen, Guangdong, PRC |

### 2.2 General Description of EUT

|                 |                                       |
|-----------------|---------------------------------------|
| Product Name:   | quip Smart Rev Oscillating Toothbrush |
| Model No.(EUT): | Model D                               |
| Trade Mark:     | quip                                  |

### 2.3 Product Specification subjective to this standard

|                       |                               |          |
|-----------------------|-------------------------------|----------|
| Frequency Range:      | 2402MHz~2480MHz               |          |
| Modulation Type:      | GFSK                          |          |
| Test Power Grade:     | Default                       |          |
| Test Software of EUT: | Esp32.exe                     |          |
| Antenna Type:         | Ceramic Antenna               |          |
| Antenna Gain:         | 2.09dBi                       |          |
| Power Supply:         | Adapter:                      | DC 5V/2A |
|                       | Battery:                      | DC 3.7V  |
| Sample Received Date: | Jan. 23, 2025                 |          |
| Sample tested Date:   | Jan. 23, 2025 to May 08, 2025 |          |

## 2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

## 2.5 Deviation from Standards

None.

## 2.6 Abnormalities from Standard Conditions

None.

## 2.7 Other Information Requested by the Customer

None.

### 3 SAR Evaluation

#### 3.1 RF Exposure Compliance Requirement

##### 3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

##### 3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

**3.1.3 EUT RF Exposure Evaluation****For Stand alone:**

| Frequency<br>(MHz) | Estimation<br>distance<br>(cm) | Max. Conducted<br>Output power<br>(dBm) | Antenna<br>Gain<br>(dBi) | ERP<br>(dBm) | ERP<br>(mW) | Limit<br>(mW) | MPE<br>ratio | Result |
|--------------------|--------------------------------|-----------------------------------------|--------------------------|--------------|-------------|---------------|--------------|--------|
| 2440               | 0.5                            | 2.78                                    | 2.09                     | 2.72         | 1.8707      | 2.7528        | 0.6795       | Pass   |

**Note:**

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③  $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$ ;
- ④  $ERP(mW) = 10^{(ERP(dBm)/10)}$ ;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32R80074201 and only the worst case data was recorded in the report.

## Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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\*\*\* End of Report \*\*\*