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RF Exposure Evaluation Report

Product : Laifen Wave SE Electric Toothbrush

Trade mark : loifon

Model/Type reference : LFTB01 SE

Serial Number : N/A

Report Number : EED32Q80875702 **FCC ID** : 2BE2Y-LFTB01SE

Date of Issue : Jul. 16, 2024

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

Shenzhen Shuye Technology Co.,Ltd.

Room 1301, Building T7, Qianwan 1st Road No.399, Qianhai Kerry
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Prepared by:

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Reviewed by:

Frazer Li

Date:

Jul. 16, 2024

Check No.: 3208240624







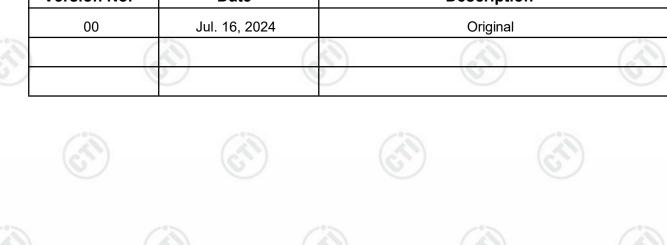


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2 Version

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Version No.	Date	Description
00	Jul. 16, 2024	Original

















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4 General Information

4.1 Client Information

Applicant:	Shenzhen Shuye Technology Co.,Ltd.		
Address of Applicant:	Room 1301, Building T7, Qianwan 1st Road No.399, Qianhai Kerry Business Center, Nanshan, Shenzhen, Guangdong, China		
Manufacturer:	Shenzhen Shuye Technology Co.,Ltd.		
Address of Manufacturer:	Room 1301, Building T7, Qianwan 1st Road No.399, Qianhai Kerry Business Center, Nanshan, Shenzhen, Guangdong, China		
Factory:	Shenzhen Laifen Intelligent Manufacturing Technology Co., Ltd.		
Address of Factory:	Building E1, 2nd Floor, Jiehe Industrial City, Shuitian Community, Shiyan Street, Baoan District, Shenzhen, Guangdong, China		

4.2 General Description of EUT

Product Name:	Laifen Wave SE Electric Toothbrush	
Model No.(EUT):	LFTB01 SE	
Trade Mark:	laifen	

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~248	0MHz			
Modulation Type:	GFSK				
Test Power Grade:	Default				
Test Software of EUT:	Serial Port Utili	ty			
Antenna Type:	Ceramic Anten	na			
Antenna Gain:	-1.16 dBi				
Power Supply:	Adapter:	DC 5V			
	USB port:	tepy c	/°>	/°>	
Sample Received Date:	Jun. 27, 2024		(27)	(27)	
Sample tested Date:	Jun. 27, 2024 t	o Jul. 04, 2024			

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







4.4 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

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer





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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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 Pth (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). Pth is given by Formula

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

where

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

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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

5.1.2 Test Procedure

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





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5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BLE

9	Frequency	Available maximum time-	Antenna	ERP	Available maximum time-	Limit	Result
	(MHz)	averaged power	gain	(dBm)	averaged power	(mW)	
		(dBm)	(dBi)		(mW)		
	2480	3.45	-1.16	0.14	2.213	≤2.717	PASS

Note:

- ①EIRP=Available maximum time-averaged power+Antenna gain;
- ②ERP=EIRP-2.15;
- ③According to § 1.1307(b)(3)(i)(B),RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).
- (4) The test data refer to the report of No. EED32Q80875701. Only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***

