

RF Exposure Evaluation Report

Product : Sonic Electric Toothbrush
Trade mark : N/A
Model/Type reference : P80S,K7S
Serial Number : N/A
Report Number : EED32O80790702
FCC ID : 2A4CS-K7SP80SRST
Date of Issue : Jul. 19, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF
Exposure Guidance v06
Test result : PASS

Prepared for:

Clevo Innovation INC
2060 N COLLINS BLVD STE 110 RICHARDSON TX 75080

Prepared by:

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Check No.:6213020622

2 Version

Version No.	Date	Description
00	Jul. 19, 2022	Original

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION.....	2
3 CONTENTS.....	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION.....	4
4.2 GENERAL DESCRIPTION OF EUT.....	4
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD.....	4
4.4 TEST LOCATION.....	5
4.5 DEVIATION FROM STANDARDS.....	5
4.6 ABNORMALITIES FROM STANDARD CONDITIONS.....	5
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	5
5 SAR EVALUATION.....	6
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT.....	6
5.1.1 Standard Requirement.....	6
5.1.2 EUT RF Exposure.....	7

4 General Information

4.1 Client Information

Applicant:	Clevo Innovation INC
Address of Applicant:	2060 N COLLINS BLVD STE 110 RICHARDSON TX 75080
Manufacturer:	Clevo Innovation INC
Address of Manufacturer:	2060 N COLLINS BLVD STE 110 RICHARDSON TX 75080
Factory:	SHENZHEN RISUN TECHNOLOGY CO.,LTD
Address of Factory:	BUILDING A, NO.6 OF XINMU ROAD, SHENZHEN, GUANGDONG,CHINA 518111

4.2 General Description of EUT

Product Name:	Sonic Electric Toothbrush
Test Mode No.(EUT):	K7S
Trade Mark:	N/A

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480MHz
Modulation Type:	GFSK
Transfer Rate:	☒ 1Mbps ☒ 2Mbps
Test Software of EUT:	sscom
Antenna Type:	Ceramic Antenna
Antenna Gain:	2.64dBi
Power Supply:	DC 3.7V
Max Conducted Peak Output Power:	-1.49 dBm The Max Conducted Peak Output Power data refer to the report EED32O80790701
Sample Received Date:	Jun. 21, 2022
Sample tested Date:	Jun. 21, 2022 to Jun. 30, 2022
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. Model No.: P80S,K7S The structure and key components of the above models are the same, but the models and appearance are different	

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

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.2 EUT RF Exposure

The tune-up power is -1.5 dBm +/- 0.5dB, therefore the highest tune-up power is

-1.00	(0.79 mW)	@ 2440 MHz
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When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

(	-1.00	/	5mm	)	*	(	2.440GHz	^{0.5}	)	=	-0.3
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[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] *

[$\sqrt{f(\text{GHz})}$] = -0.3 < 3.0

Therefore, standalone SAR measurements are not required for both head and body.

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 ***