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RF Exposure Evaluation Report

Product : ELEHEAR Beyond Hearing Aids

Trade mark : ELEHEAR

Model/Type reference : RIC 03,RIC 03A,RIC 03B,

RIC 03C,RIC 03D,RIC 03E, RIC 03F,RIC 03G,RIC 03H, RIC 03I,RIC 03J,RIC 03K, RIC 03M,RIC 03N,RIC 03O

Serial Number : N/A

Report Number : EED32Q80139503

FCC ID : 2BF4W-RIC03

Date of Issue : Jun. 13, 2024

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

Report Seal

Prepared for:

ELEHEAR Inc.

708, Building 12, Shenzhen Bay Tech-Eco Park, 709, Nanshan District, Shenzhen, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District,

Shenzhen, Guangdong, China

TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Compiled by:

Frazer Li

Approved by:

Aaron Ma

Reviewed by:

Tom Chen

Jun. 13, 2024

Check No.: 6119241022









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Version No.	Date	Description	
00	Jun. 13, 2024	Original	
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3 General Information

3.1 Client Information

Applicant:	ELEHEAR Inc.
Address of Applicant:	708, Building 12, Shenzhen Bay Tech-Eco Park, Nanshan District, Shenzhen, China
Manufacturer:	ELEHEAR Inc.
Address of Manufacturer:	708, Building 12, Shenzhen Bay Tech-Eco Park, Nanshan District, Shenzhen, China

3.2 General Description of EUT

Product Name:	ELEHEAR Beyond Hearing Aids			
	RIC 03,RIC 03A,RIC 03B,RIC 03C,RIC 03D,RIC 03E,RIC 03F,			
Model No.:	RIC 03G,RIC 03H,RIC 03I,RIC 03J,RIC 03K,RIC 03M,RIC 03N,RIC 03O			
Test Model No.:	RIC 03			
Trade Mark:	ELEHEAR			

3.3 Product Specification subjective to this standard

<u> </u>	<u>-</u>					
Frequency Range:	2402MHz~24	80MHz				
Modulation Type:	BLE 1Mbps: 2	2402MHz~2480MHz;				
	BLE 2Mbps: 2	LE 2Mbps: 2404MHz~2478MHz;				
	BT: 2402MHz	~2480MHz				
Test Power Grade:	Default					
Test Software:	BQB.exe(mar	nufacturer declare)			322	
Antenna Type:	Internal anten	na				
Antenna Gain:	0.76dBi	(0,	(0,)		(0,)	
Power Supply:	Battery:	DC 3.85V				
Sample Received Date:	Apr. 22, 2024					
Sample tested Date:	Apr. 23, 2024	to May 06, 2024		(3)		

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.

Model No.: RIC 03,RIC 03A,RIC 03B,RIC 03C,RIC 03D,RIC 03E,RIC 03F,RIC 03G,RIC 03H,RIC 03I,RIC 03J,RIC 03K,RIC 03M,RIC 03N,RIC 03O

Only the model RIC 03 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, only the model name, Color and Accoustics parameter are different for marketing requirements.







3.4 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

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer





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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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

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

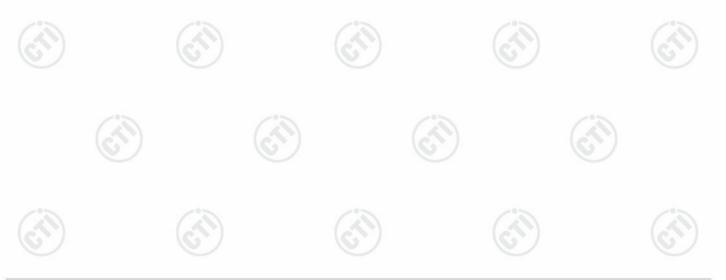
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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

4.1.2 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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4.1.3 EUT RF Exposure Evaluation

For Stand alone:

For Bluetooth LE:

0	Frequency	Max. Conducted	Antenna	EIRP	ERP	ERP	Limit	Result
3	(MHz)	Output power (dBm)	Gain	(dBm)	(dBm)	(mW)	(mW)	
-			(dBi)					
	2440	0.82	0.76	1.58	-0.57	0.877	2.753	PASS

For Bluetooth Classic:

Frequency	Max. Conducted	Antenna	EIRP	ERP	ERP	Limit	Result
(MHz)	Output power	Gain	(dBm)	(dBm)	(mW)	(mW)	
	(dBm)	(dBi)					
2441	0.64	0.76	1.40	-0.75	0.841	2.752	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) 95.23;
- $4ERP(mW) = 10^{(ERP (dBm)/10)};$
- ⑤The estimation distance is 0.5cm;
- ©The test data please refer to the report of EED32Q80139501, EED32Q80139502 and 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 ***