

RF Exposure Evaluation Report

Product : HYBRID ANC TWS SPORT EARBUD
Trade mark : VOKALEN
Model/Type reference : Reflex Pro
Serial Number : N/A
Report Number : EED32Q81209203
FCC ID : MV3-TWSBT015
Date of Issue : Sep. 09, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Country Mate Technology Ltd

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1 Version

Version No.	Date	Description
00	Sep. 09, 2024	Original

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3 General Information

3.1 Client Information

Applicant:	Country Mate Technology Ltd
Address of Applicant:	5/F, Blk E, Hing Yip Center. 31 Hing Yip Street Kwun Tong, Kln N/A Hong Kong
Manufacturer:	Country Mate Technology Ltd
Address of Manufacturer:	5/F, Blk E, Hing Yip Center. 31 Hing Yip Street Kwun Tong, Kln N/A Hong Kong

3.2 General Description of EUT

Product Name:	HYBRID ANC TWS SPORT EARBUD
Model No.(EUT):	Reflex Pro
Trade Mark:	VOKALEN

3.3 Product Specification subjective to this standard

Antenna Type:	LDS antenna	
Antenna Gain:	Right ear: 0.6dBi Left ear: 0.5dBi	
Power Supply:	Battery:	DC 3.85V
Test Voltage:	DC 3.85V	
Sample Received Date:	Aug. 13, 2024	
Sample tested Date:	Aug. 13, 2024 to Aug. 24, 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.		

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

None.

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 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.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation**For Stand alone:****For Bluetooth Classic:**

Frequency (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2480	2.26	0.6	0.71	1.1776	4.3412	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) = $10^{(ERP \text{ (dBm)}/10)}$;

⑤The estimation distance is 0.5cm;

⑥The test data please refer to the report of EED32Q81209201,EED32Q81209202 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 *****