

RF Exposure Evaluation Report

Product : Magic Palm Wireless Stereo
Trade mark : AirBugle, Magic Palm
Model/Type reference : VPB-0016, VPB-0017,
VPB-0017A~Z, VPB-0018,
VPB-0018A~Z
Serial Number : N/A
Report Number : EED32P81833702
FCC ID : 2BD9E-VD0101
Date of Issue : Aug. 08, 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

Prepared for:

VENOUS EYEWEAR CO., LTD.

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Prepared by:

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2 General Information

2.1 Client Information

Applicant:	VENOUS EYEWEAR CO., LTD.
Address of Applicant:	1 F., No. 182, Sec. 2, Chengxi St., Annan Dist., Chinese Tainan City 70956
Manufacturer:	VENOUS EYEWEAR CO., LTD.
Address of Manufacturer:	1F., No. 182, Sec. 2, Chengxi St., Annan Dist., Chinese Tainan City 70956
Factory:	XIAMEN ACOUSYCOM ELECTRONIC CO.,LTD
Address of Factory:	NO.268-269 TONG-AN GARDEN,TONG-AN INDUSTRIAL PARK ,TONG-AN, XIAMEN, FUJIAN, CHINA

2.2 General Description of EUT

Product Name:	Magic Palm Wireless Stereo
Model No.(EUT):	VPB-0016, VPB-0017, VPB-0017A~Z, VPB-0018, VPB-0018A~Z
Test Model No.:	VPB-0016
Trade Mark:	AirBugle, Magic Palm

2.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Test Power Grade:	Default
Test Software of EUT:	Airoha Tool Kit(ATK)_V1.5.13.exe
Antenna Type:	Chip antenna
Antenna Gain:	2.0dBi
Power Supply:	DC 3.7V,60mAh,0.222Wh
Sample Received Date:	Dec. 20, 2023
Sample tested Date:	Dec. 20, 2023 to Dec. 21, 2023

Remark:

The EUT includes the left frame unit and the right frame unit, which are symmetric, so only the right frame unit is tested and reflected in the report.

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.: VPB-0016, VPB-0017, VPB-0017A~Z, VPB-0018, VPB-0018A~Z

Only the model VPB-0016 was tested.Their electrical circuit design, layout, components used, and internal wiring are identical. The only difference lies in the external appearance. The VPB-0017 series and VPB-0017 A~Z series have a straight-shaped design, while the appearance of the other series is curved.

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:

For Bluetooth Classic

Frequency (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2441	0.96	2.0	0.81	1.205	≤ 2.752	PASS

Note:

①EIRP=conducted power+antenna gain;

②ERP=EIRP-2.15

③The test data refer to report of No. EED32P81833701. 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 ***