

RF Exposure Evaluation Report

Applicant: Shenzhen DOOGEE Hengtong Technology CO., LTD

Address of Applicant: B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park,
No. 22, Dafu Industrial Zone, Guanlan Aobei Community,
Guanlan Street, Longhua New District, Shenzhen, Guangdong
China

Product Name: Magnetic Portable Wireless Speaker

Model No.: MG01 (More models are listed in Section 2.2)

Brand Name: DOOGEE, DOOGEE Smart

FCC ID: 2AX4YMG01

Test Standards: KDB 447498 D04 Interim General RF Exposure Guidance v01

Date of Sample Receipt: Mar. 16, 2026

Date of Test: Mar. 17 to May 11, 2026

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Prepared By:

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Report Revision History

Rev.	Issue Date	Description
V00	May 12, 2026	Initial Release



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1 Laboratory Introduction

1.1 Laboratory Location

Company Name:	Shenzhen Acote Technology Co., Ltd.
Address of Laboratory:	Room 719, Excellence Times Building, No. 27, Xinqiao 3rd Road, Xinqiao Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong Province, China.
	101, F1, building 15, zhongda 365, Xincheng Road No.9, Songshanhu, Dongguan, Guangdong, China.
Website:	www.acotelabs.com
Email:	Service@acotelabs.com
Tel.:	+86-0755-2788 9963

1.2 Laboratory Facility

Our company's laboratory facilities have received accreditation, certification, or authorization from the following organizations:

- **FCC - Designation No.: CN1450**
Shenzhen Acote Technology Co., Ltd. has been certified by the FCC (Federal Communications Commission) as a testing laboratory. Test Firm Registration Number: **832670**.
- **ISED - CAB Identifier: CN0202**
Shenzhen Acote Technology Co., Ltd. is registered with ISED (Innovation, Science and Economic Development Canada) as a Conformity Assessment Body (CAB) for radio equipment testing.
- **A2LA - Accreditation Number: 7697.01**
Shenzhen Acote Technology Co., Ltd. has been accredited by A2LA (American Association for Laboratory Accreditation) in compliance with the internationally recognized standard ISO/IEC 17025:2017, "General Requirements for the Competence of Testing and Calibration Laboratories."

1.3 Announcement

Shenzhen Acote Technology Co., Ltd. tested the equipment in accordance with the requirements set forth in the test standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by Shenzhen Acote Technology Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Shenzhen Acote Technology Co., Ltd. will constitute fraud and shall nullify the document.

1.4 Disclaimer

For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

2 Equipment Under Test Information

2.1 Application Information

Applicant:	Shenzhen DOOGEE Hengtong Technology CO., LTD
Address of Applicant:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Dafu Industrial Zone, Guanlan Aobei Community, Guanlan Street, Longhua New District, Shenzhen, Guangdong China
Manufacturer:	Shenzhen DOOGEE Hengtong Technology CO., LTD
Address of Manufacturer:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Dafu Industrial Zone, Guanlan Aobei Community, Guanlan Street, Longhua New District, Shenzhen, Guangdong China
Factory:	Huizhou Shenke Xinfei Technology Co., Ltd
Address of Factory:	Building C, Xia Chang Jing industrial, XinXu Town, Huiyang District, Huizhou City

2.2 Product Information

Product Name:	Magnetic Portable Wireless Speaker
Model No.:	MG01
Models of Product Family:	MG02, MG03, MG04, MG05, MG06
Description of Model Differentiation:	This product series includes a total of 6 models. All models share an identical RF design, including the same RF chipset, RF circuit design, PCB layout, antenna type, antenna location, and antenna gain. The only difference is the model name.

2.3 EUT Technical Parameters

Operation Frequency:	BT/BLE: 2402MHz ~ 2480MHz
Antenna Type:	SMD Ceramic Antenna
Antenna Gain:	2.71 dBi (declared by applicant)
Power Supply:	Rechargeable Li-ion Battery 3.7Vdc, 1800mAh
Input Voltage:	DC 5V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3 Test Information

3.1 Test Methodology

The tests documented in this report were performed in accordance with:

- KDB 447498 D04 Interim General RF Exposure Guidance v01

3.2 Additions to, Deviations, or Exclusions from the Method

None

3.3 Test Mode

TM 1:	Keep the EUT continuously transmitting in BT mode.
TM 2:	Keep the EUT continuously transmitting in BLE mode.

3.4 Worst-case

This RF exposure assessment is based on the maximum EIRP derived from worst-case engineering measurements across all modulation types at various data rates.

4 Technical requirements specification

4.1 Limits

SAR-Based Exemption

Evaluation of compliance with the exposure limits in § 1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for portable devices having single RF sources with more than an available maximum time-averaged power of 1 mW, more than the ERP listed in Table 1 to §1.1307(b)(3)(i)(C), or more than the P_{th} in the following formula, whichever is greater. The following formula shall only be used in conjunction with portable devices not exempt by § 1.1307(b)(3)(i)(C) at distances from 0.5 centimeters to 20 centimeters and frequencies from 0.3 GHz to 6 GHz.

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

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).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

4.2 Result

Worse case:

Mode	Freq. (MHz)	Output Power (dBm)	ANT. Gain (dBi)	EIPR (dBm)	EPR (dBm)	ERP (mW)	Distance (cm)	P_{th} (mW)	Verdict
BT_3-DH5	2402	2.73	2.71	5.44	3.29	2.13	0.50	2.79	Pass
BLE_1M	2402	2.32	2.71	5.03	2.88	1.94	0.50	2.79	Pass

4.3 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

----- End of Report -----