

FCC SAR Exemption Evaluation Report

Report No. : SAR260416B001

Applicant : SHENZHEN MOTTO ELECTRONICS CO., LTD

Address : 501, No.71-5 of XinTian Road, XinTian Community, Fuhai Street, BaoAn District, Shenzhen, China

Product : Tag

FCC ID : 2BHYW-TAG

Model No. : TAG1

Standards : FCC 47 CFR Part 2 (2.1093)
KDB 447498 D01 v06

Date of Testing : DEC. 01, 2025 ~ JAN. 16, 2026

Test Lab : The FCC Site Registration No. is 646781; The Designation No. is CN1429.

Issued By : Boomwave Test (Shenzhen) Co., Ltd.

Address : Rm B38, Warehouse A5(Chiwan #1), #3 Chiwan 4th Rd, Chiwan Comm, Zhaoshang St, Nanshan Dist, Shenzhen, Guangdong, Shenzhen, China

CERTIFICATION: The above equipment have been tested by **BOOMWAVE TEST (SHENZHEN) CO., LTD.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by A2LA or any government agencies.

Prepared By : *Jiawei Tu*
Jiawei Tu / Engineer

Approved By : *Simon Wang*
Simon Wang/ Manager

BOOMWAVE TEST (SHENZHEN) CO., LTD. tested the above equipment in accordance with the requirements set forth in the above 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 the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample 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. without written approval of BOOMWAVE TEST (SHENZHEN) CO., LTD., the test report shall not be reproduced except in full.



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Release Control Record

Report No.	Reason for Change	Date Issued
SAR260416B001	Initial release	Jan. 19, 2026

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1. Description of Equipment Under Test

EUT Type*	Tag
Model Name*	TAG1
Tx Frequency Bands (Unit: MHz)	BT-LE: 2402 ~ 2480
Uplink Modulations	BT-LE: GFSK
Maximum Tune-up Conducted Power (Unit: dBm)	BT-LE: 11dBm
Antenna Type*	PCB Antenna (Peak Antenna Gain : -3.43 dBi for 2.4GHz)
HW VERSION*	V0.2
SW VERSION*	V1.0.0
EUT Stage*	Identical Prototype

NOTE:

1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

2. SAR Exemption Evaluation

Following FCC KDB 447498 D01 “General SAR test exclusion guidance”

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) 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:
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
 - $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparisonThe 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.
- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) $\cdot$ ($f_{(\text{MHz})}/150$)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) $\cdot$ 10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f_{(\text{MHz})})]$ for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $1/2$ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

Smallest distance from the antenna and radiating structures or outer surface of the device

The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.

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2.1 Maximum Tune-up Power (declared by manufacturer)

Mode	Tune-up Power
Bluetooth LE	11dBm

2.2 SAR Test Exclusion Thresholds

Mode	Frequency (MHz)	Max. Tune-up Power (dBm)	Minimum separation distance (mm)	Calculated Result	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
Bluetooth LE	2480	9.6	5	2.86	3.0	7.5	Exempt from SAR

Conclusion

According to the table above, the device can meet the SAR test exclusion thresholds requirement of FCC KDB 447498 D01, and SAR evaluation is not required.

Therefore, this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

3. Information on the Testing Laboratories

We, Boomwave Test (Shenzhen) co., Ltd., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Boomwave Test (Shenzhen) Co., Ltd.

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