



TEST REPORT

APPLICANT : Dongguan Ruige Electronics Co., LTD

MODEL No. : M190

TRADE MARK : N/A

FCC ID : 2BC8W-M190

STANDARD(S) : 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

ISSUE DATE : Oct. 13, 2026

Compiled by:

Heber He

Heber He(Rapporteur)

Reviewed by:

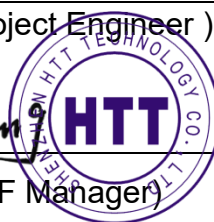
Bruce Zhu

Bruce Zhu(Project Engineer)

Approved by:

Kevin Yang

Kevin Yang(RF Manager)





Contents

1 GENERAL INFORMATION	3
1.1 Client Information	3
1.2 General Description of EUT	3
1.3 General Description of EUT	3
1.4 Test Location	4
1.5 Deviation from Standards	4
1.6 Abnormalities from Standard Conditions	4
1.7 Other Information Requested by the Customer	4
2 SAR Evaluation	5
2.1 RF Exposure Compliance Requirement	5
2.2 Limits	5
2.3 Test Procedure	5
3 EUT RF Exposure Evaluation	6



1 GENERAL INFORMATION

1.1 Client Information

Applicant:	Dongguan Ruige Electronics Co., LTD
Address of Applicant:	Room 201, Building 2, No. 60 Xinyang Middle Road, Lincun, Tangxia Town, Dongguan City, Guangdong Province
Manufacturer:	Dongguan Ruige Electronics Co., LTD
Address of Manufacturer:	Room 201, Building 2, No. 60 Xinyang Middle Road, Lincun, Tangxia Town, Dongguan City, Guangdong Province

1.2 General Description of EUT

Product Name:	Wireless Earphones
Model No.:	M190
Test Model No.:	M190
Trade mark:	N/A

1.3 General Description of EUT

Frequency Range:	BT: 2402MHz~2480MHz
Modulation Type:	BT: GFSK, $\pi/4$ DQPSK, 8DPSK
Test Software of EUT:	BT_Tool
Test Power Grade:	7
Antenna Type:	Chip Antenna
Antenna Gain:	2.70 dBi
Power Supply:	Headphone battery capacity:3.7V/40mAh (polymer battery) Charging bin battery capacity:3.7V/300mAh (polymer battery) Charging interface :USB Type-C
Sample Received Date:	Sep. 30, 2026
Sample tested Date:	Sep. 30, 2026 ~ Oct. 13, 2026

Note 1: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.4 Test Location

All tests were performed at:

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 -23595200 Fax: 0755-23595201

No tests were sub-contracted.

FCC-Registration No.: 779513 Designation Number: CN1319

1.5 Deviation from Standards

None.

1.6 Abnormalities from Standard Conditions

None.

1.7 Other Information Requested by the Customer

None.



2 SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.2 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.

2.3 Test Procedure

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



3 EUT RF Exposure Evaluation

For Stand alone:

Band	Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
BT	2480	0.5	2.82	2.7	3.37	2.17	2.717	0.7996	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 HTT202609825F01 and only the worst case data was recorded in the report.

***** End of Report *****