

# FCC RF EXPOSURE REPORT

**FCC ID: 2BGX7-S18**

Test Report No.....: RF240625011-01-004

Product(s) Name.....: TWS Earphone

Model(s).....: S18, S19, S29, S39, S40, S41, S25, S36, S43, S45, S39P

Trade Mark.....: IVANTE

Applicant.....: ShenZhen Ivante Technology Co., Ltd

Address.....: Room 401, Building A5, Area A, Fangxing Science and Technology Park, No.  
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Receipt Date.....: 2024.07.01

Test Date.....: 2024.07.02~2024.07.19

Issued Date.....: 2024.07.19

Standards.....: CFR47 FCC Part 2: Section 2.1093; CFR47 FCC Part 1: Section 1.1310  
FCC KDB Publication 447498 v06

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

| Prepared By:       | Checked By:      | Approved By:    |  |
|--------------------|------------------|-----------------|---------------------------------------------------------------------------------------|
| Jason huang        | Tim zhang        | Misue Su        |                                                                                       |
| <i>Jason huang</i> | <i>Tim.zhang</i> | <i>Misue Su</i> |                                                                                       |

## History of this test report

Original Report Issue Date: 2024.07.19

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

| Attachment No. | Issue Date | Description |
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## 1.. TEST FACILITY

|                           |                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------|
| Company:                  | Shenzhen Haiyun Standard Technical CO., Ltd.                                                |
| Address:                  | No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China |
| CNAS Registration Number: | CNAS L18252                                                                                 |
| CAB identifier:           | CN0145                                                                                      |
| A2LA Certificate Number:  | 6823.01                                                                                     |
| Telephone:                | 0755-26024411                                                                               |

## 2.. MPE CALCULATION METHOD

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where

□  $f(\text{GHz})$  is the RF channel transmit frequency in GHz

### Appendix A

#### *SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq 50$ mm*

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

| MHz  | 5  | 10 | 15  | 20  | 25  | mm                                               |
|------|----|----|-----|-----|-----|--------------------------------------------------|
| 150  | 39 | 77 | 116 | 155 | 194 | <i>SAR Test<br/>Exclusion<br/>Threshold (mW)</i> |
| 300  | 27 | 55 | 82  | 110 | 137 |                                                  |
| 450  | 22 | 45 | 67  | 89  | 112 |                                                  |
| 835  | 16 | 33 | 49  | 66  | 82  |                                                  |
| 900  | 16 | 32 | 47  | 63  | 79  |                                                  |
| 1500 | 12 | 24 | 37  | 49  | 61  |                                                  |
| 1900 | 11 | 22 | 33  | 44  | 54  |                                                  |
| 2450 | 10 | 19 | 29  | 38  | 48  |                                                  |
| 3600 | 8  | 16 | 24  | 32  | 40  |                                                  |
| 5200 | 7  | 13 | 20  | 26  | 33  |                                                  |
| 5400 | 6  | 13 | 19  | 26  | 32  |                                                  |
| 5800 | 6  | 12 | 19  | 25  | 31  |                                                  |

## TEST RESULTS

**Table for Filed Antenna**  
For BDR+EDR

| Ant. | Brand | Antenna Type | Connector | Gain (dBi) |
|------|-------|--------------|-----------|------------|
| 1    | N/A   | Geomagnetic  | N/A       | 3.00       |

| Operating Mode | Frequency | Conducted Peak Power | Conducted Peak Power |
|----------------|-----------|----------------------|----------------------|
|                | (MHz)     | (dBm)                | (mW)                 |
| BDR+EDR        | 2402-2480 | -0.11                | 0.97                 |

### Measurement Record:

The minimum distance for the EUT is less than 5mm.

Since maximum peak output power of the transmitter is  $-0.11 \text{ dBm} \approx 0.97 \text{ mW} < \frac{3 \cdot d}{\sqrt{f}} = 9.52 \text{ mW}$ .

Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.

### ➤ Conclusion

Result: Complies

## Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

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(END OF REPORT)