

## 1 Cover Page

# RF Exposure Evaluation Report

**Application No.:** KSCR2511002494AU  
**FCC ID:** 2ALBS1D005271  
**Applicant:** WHETRON ELECTRONICS(SUZHOU) CO., LTD  
**Address of Applicant:** NO.457,XIANGJIANG ROAD, HIGH NEW DISTRICT,SUZHOU, P.R. CHINA  
**Manufacturer:** WHETRON ELECTRONICS(SUZHOU) CO., LTD  
**Address of Manufacturer:** NO.457,XIANGJIANG ROAD, HIGH NEW DISTRICT,SUZHOU, P.R. CHINA  
**Factory:** WHETRON ELECTRONICS(SUZHOU) CO., LTD  
**Address of Factory:** NO.457,XIANGJIANG ROAD, HIGH NEW DISTRICT,SUZHOU, P.R. CHINA  
**Equipment Under Test (EUT):**  
**EUT Name:** BCM  
**Model No.:** 1D005271  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
KDB 447498 D04 interim General RF Exposure Guidance v01  
**Date of Receipt:** 2025-09-17  
**Date of Test:** 2025-09-20 to 2025-11-27  
**Date of Issue:** 2025-11-28

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



| Revision Record |             |            |        |
|-----------------|-------------|------------|--------|
| Version         | Description | Date       | Remark |
| 00              | Original    | 2025-11-28 | /      |
|                 |             |            |        |
|                 |             |            |        |

|                          |  |                           |  |  |
|--------------------------|--|---------------------------|--|--|
| Authorized for issue by: |  |                           |  |  |
| Tested By                |  | Maker Qi                  |  |  |
|                          |  | Maker_Qi/Project Engineer |  |  |
| Approved By              |  | Terry Hou                 |  |  |
|                          |  | Terry Hou /Reviewer       |  |  |



## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR250900249402

Page: 3 of 7

## 2 Contents

|                                                             | Page     |
|-------------------------------------------------------------|----------|
| <b>1 Cover Page .....</b>                                   | <b>1</b> |
| <b>2 Contents .....</b>                                     | <b>3</b> |
| <b>3 General Information.....</b>                           | <b>4</b> |
| 3.1 General Description of E.U.T.....                       | 4        |
| 3.2 Technical Specifications.....                           | 4        |
| 3.3 Separation Distance.....                                | 4        |
| 3.4 Test Location .....                                     | 5        |
| 3.5 Test Facility.....                                      | 5        |
| <b>4 RF Exposure Test Exemptions .....</b>                  | <b>6</b> |
| 4.1 RF Exposure Test Exemptions for single RF sources ..... | 6        |
| <b>5 Measurement and Calculation .....</b>                  | <b>7</b> |
| 5.1 Maximum transmit power .....                            | 7        |
| 5.2 RF Exposure Calculation.....                            | 7        |

## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR250900249402

Page: 4 of 7

### 3 General Information

#### 3.1 General Description of E.U.T.

|               |                                                  |
|---------------|--------------------------------------------------|
| Power supply: | DC 12V                                           |
| Product Type: | <input type="checkbox"/> Portable device         |
|               | <input type="checkbox"/> Mobile device           |
|               | <input checked="" type="checkbox"/> Fixed device |

#### 3.2 Technical Specifications

125kHz

|                      |                    |
|----------------------|--------------------|
| Operation Frequency: | 125kHz             |
| Modulation Type:     | ASK                |
| Number of Channels:  | 1                  |
| Number of Antennas   | 1                  |
| Antenna Type:        | Integrated Antenna |

#### 3.3 Separation Distance

|                                                                                                                                                                                                                                                                                                                                                        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Separation distance between the antenna to person (R):                                                                                                                                                                                                                                                                                                 | > 20cm |
| <p>Remark: This 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. R has been stated in user manual.</p> |        |

## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR250900249402

Page: 5 of 7

### 3.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

### 3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

## **4 RF Exposure Test Exemptions**

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

### **4.1 RF Exposure Test Exemptions for single RF sources**

#### **4.1.1 Blanket 1 mW Blanket Exemption**

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.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR251100249401

| Freq.<br>(kHz) | Result Level<br>(dBμV/m@3m) | Result Level<br>(mW) |
|----------------|-----------------------------|----------------------|
| 125            | 87.17                       | 0.15                 |

$EIRP[dBm] = E[dBμV/m] - 95.3$ , for  $d = 3m$

### 5.2 RF Exposure Calculation

For single RF source :

|                                     | Evaluation method              | Exempt Limit(mW) | Verdict |
|-------------------------------------|--------------------------------|------------------|---------|
| <input checked="" type="checkbox"/> | Blanket 1 mW Blanket Exemption | 1mW              | Pass    |

The max power is  $87.17dBμV/m@3m = 0.15mW < 1mW$

So the device is exclusion from SAR test.

--End of the Report--