



**FCC RF EXPOSURE REPORT**  
**CERTIFICATION TEST REPORT**

*For*

**WIFI+BT Module**

**MODEL NUMBER: WXT2AM2101**

**FCC ID: 2AC23-WXT2A**

**REPORT NUMBER: 4790194584-6**

**ISSUE DATE: February 18, 2022**

*Prepared for*

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Revision History

| Rev. | Issue Date | Revisions     | Revised By |
|------|------------|---------------|------------|
| V0   | 2/18/2022  | Initial Issue |            |



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## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD  
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### Manufacturer Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD  
Address: No.2,Jin-da Road,Huinan High-tech Industrial Park,Hui-ao Avenue,Huizhou City,Guangdong,China

### EUT Information

EUT Name: WIFI+BT Module  
Model: WXT2AM2101  
Sample Received Date: November 22, 2021  
Sample Status: Normal  
Sample ID: 4425311  
Date of Tested: November 22, 2021 ~ February 18, 2022

| APPLICABLE STANDARDS |              |
|----------------------|--------------|
| STANDARD             | TEST RESULTS |
| FCC 47CFR§2.1091     | PASS         |

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

## 3. FACILITIES AND ACCREDITATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accreditation Certificate | <p><b>A2LA (Certificate No.: 4102.01)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p><b>ISED (Company No.: 21320)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p><b>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.</p> <p>Facility Name:<br/>Chamber D, the VCCI registration No. is G-20019 and R-20004<br/>Shielding Room B, the VCCI registration No. is C-20012 and T-20011</p> |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.

## 4. REQUIREMENT

### LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

### RF EXPOSURE LIMIT

| Frequency Range (MHz) | E-field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (Minutes) |
|-----------------------|----------------------------|-----------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| 0.3 -- 1.34           | 614                        | 1.63                              | (100)*                                  | 30                                                                |
| 1.34 -- 30            | 824/f                      | 2.19/f                            | (180/f <sup>2</sup> )*                  | 30                                                                |
| 30 -- 300             | 27.5                       | 0.073                             | 0.2                                     | 30                                                                |
| 300 -- 1500           | --                         | --                                | f/1500                                  | 30                                                                |
| 1500 -- 100,000       | --                         | --                                | 1.0                                     | 30                                                                |

### CALCULATION METHOD

$$S = PG / 4\pi R^2$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

**CALCULATED RESULTS**

| Worst Case |              |              |                    |                     |             |
|------------|--------------|--------------|--------------------|---------------------|-------------|
| Mode       | Output Power | Antenna Gain | Power Density      | Power Density Limit | Test Result |
|            | dBm          | dBi          | mW/cm <sup>2</sup> | mW/cm <sup>2</sup>  | --          |
| BLE        | 8            | 2            | 0.0020             | 1.0                 | Complies    |

| Worst Case |              |              |                    |                     |             |
|------------|--------------|--------------|--------------------|---------------------|-------------|
| Mode       | Output Power | Antenna Gain | Power Density      | Power Density Limit | Test Result |
|            | dBm          | dBi          | mW/cm <sup>2</sup> | mW/cm <sup>2</sup>  | --          |
| BT         | 11           | 2            | 0.0040             | 1.0                 | Complies    |

| Worst Case |              |                          |                    |                     |             |
|------------|--------------|--------------------------|--------------------|---------------------|-------------|
| Mode       | Output Power | Directional Antenna Gain | Power Density      | Power Density Limit | Test Result |
|            | dBm          | dBi                      | mW/cm <sup>2</sup> | mW/cm <sup>2</sup>  | --          |
| WIFI 2.4G  | 19           | 2                        | 0.0251             | 1.0                 | Complies    |

| Worst Case |              |                          |                    |                     |             |
|------------|--------------|--------------------------|--------------------|---------------------|-------------|
| Mode       | Output Power | Directional Antenna Gain | Power Density      | Power Density Limit | Test Result |
|            | dBm          | dBi                      | mW/cm <sup>2</sup> | mW/cm <sup>2</sup>  | --          |
| WIFI 5G    | 19           | 3                        | 0.0315             | 1.0                 | Complies    |

| Worst Case |              |                          |                    |                     |             |
|------------|--------------|--------------------------|--------------------|---------------------|-------------|
| Mode       | Output Power | Directional Antenna Gain | Power Density      | Power Density Limit | Test Result |
|            | dBm          | dBi                      | mW/cm <sup>2</sup> | mW/cm <sup>2</sup>  | --          |
| WIFI 6G    | 7            | 4                        | 0.0025             | 1.0                 | Complies    |



Note:

1. The Power comes from report operation description.
2.  $BT + 2.4GHz + 5GHz + 6GHz = 0.004 + 0.0251 + 0.0315 + 0.0025 = 0.0631 \text{ (mW/ cm}^2\text{)}$   
 $< 1$ .
3. The minimum separation distance of the device is greater than 20 cm.
4. Calculate by WORST-CASE mode.

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**END OF REPORT**