



# RF TEST REPORT

Product Name: Handheld Emitter

Model Name: GC6020-15, GC6020-1, GC6020-2, GC6020-5

FCC ID: 2BLA7-GC6020

Issued For : NINGBO GERWIN MECHANIC&ELECTRONICS  
TECHNOLOGY CO.,LTD

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Issued By : Shenzhen LGT Test Service Co., Ltd.

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Report Number: LGT26A136HA01

Sample Received Date: Jan. 20, 2026

Date of Test: Jan. 20, 2026~Feb. 03, 2026

Date of Issue: Feb. 03, 2026

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## TEST REPORT CERTIFICATION

**Applicant:** NINGBO GERWIN MECHANIC&ELECTRONICS  
TECHNOLOGY CO.,LTD

**Address:** Tianhu Road, Luotuo Street, Ningbo, Zhejiang, China

**Manufacture:** NINGBO GERWIN MECHANIC&ELECTRONICS  
TECHNOLOGY CO.,LTD

**Address:** Tianhu Road, Luotuo Street, Ningbo, Zhejiang, China

**Product Name:** Handheld Emitter

**Trademark:** N/A

**Model Name:** GC6020-15, GC6020-1, GC6020-2, GC6020-5

**Sample Status:** Normal

| APPLICABLE STANDARDS                                                     |              |
|--------------------------------------------------------------------------|--------------|
| STANDARD                                                                 | TEST RESULTS |
| FCC 47 CFR §2.1093<br>KDB 447498 D01 General RF Exposure<br>Guidance v06 | PASS         |

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## TABLE OF CONTENTS

|                                                               |          |
|---------------------------------------------------------------|----------|
| <b>1 . GENERAL INFORMATION</b>                                | <b>5</b> |
| 1.1 GENERAL DESCRIPTION OF THE EUT                            | 5        |
| 1.2 TEST LABORATORY                                           | 5        |
| <b>2 . FCC 47CFR § 2.1093 REQUIREMENT</b>                     | <b>6</b> |
| 2.1 TEST STANDARDS                                            | 6        |
| 2.2 LIMIT                                                     | 6        |
| 2.3 TEST RESULT                                               | 8        |
| <b>APPENDIX I - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS</b> | <b>9</b> |



### **Revision History**

| Rev. | Issue Date    | Revisions     |
|------|---------------|---------------|
| 00   | Feb. 03, 2026 | Initial Issue |
|      |               |               |



## 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF THE EUT

|                   |                                   |
|-------------------|-----------------------------------|
| Product Name:     | Handheld Emitter                  |
| Model Name:       | GC6020-15                         |
| Series Model:     | GC6020-1, GC6020-2, GC6020-5      |
| Model Difference: | Only the model name is different. |
| Frequency Bands:  | 433.916 MHz                       |
| Battery:          | DC 3V (2*1.5V AAA battery)        |
| Hardware Version: | N/A                               |
| Software Version: | N/A                               |

### 1.2 TEST LABORATORY

|                           |                                                                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name:             | Shenzhen LGT Test Service Co., Ltd.                                                                                                                      |
| Address:                  | Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China |
| Accreditation Certificate | A2LA Certificate No.: 6727.01                                                                                                                            |
|                           | FCC Registration No.: 746540                                                                                                                             |
|                           | CAB ID: CN0136                                                                                                                                           |



## 2. FCC 47CFR §2.1093 REQUIREMENT

### 2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in KDB 447498 D01 General RF Exposure Guidance v06 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

### 2.2 LIMIT

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz  | 5   | 10  | 15  | 20  | 25  | mm                                      |
|------|-----|-----|-----|-----|-----|-----------------------------------------|
| 150  | 39  | 77  | 116 | 155 | 194 | SAR Test<br>Exclusion<br>Threshold (mW) |
| 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  |                                         |
|      |     |     |     |     |     |                                         |
| MHz  | 30  | 35  | 40  | 45  | 50  | mm                                      |
| 150  | 232 | 271 | 310 | 349 | 387 | SAR Test<br>Exclusion<br>Threshold (mW) |
| 300  | 164 | 192 | 219 | 246 | 274 |                                         |
| 450  | 134 | 157 | 179 | 201 | 224 |                                         |
| 835  | 98  | 115 | 131 | 148 | 164 |                                         |
| 900  | 95  | 111 | 126 | 142 | 158 |                                         |
| 1500 | 73  | 86  | 98  | 110 | 122 |                                         |
| 1900 | 65  | 76  | 87  | 98  | 109 |                                         |
| 2450 | 57  | 67  | 77  | 86  | 96  |                                         |
| 3600 | 47  | 55  | 63  | 71  | 79  |                                         |
| 5200 | 39  | 46  | 53  | 59  | 66  |                                         |
| 5400 | 39  | 45  | 52  | 58  | 65  |                                         |
| 5800 | 37  | 44  | 50  | 56  | 62  |                                         |



The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  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  $\leq 7.5$  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 comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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.



## 2.3 TEST RESULT

### Turn up Result

Worse case is as below:

Note: The maximum Equivalent Isotropic Radiated Power :  $71.79 \text{ dBuV/m} - 95.2 = -23.41 \text{ dBm}$  (refer to C63.10, section 10.3.9)(433.916MHz)

| Mode       | Turn up Power |
|------------|---------------|
| 433.916MHz | -23±1dBm      |

### The MPE result of worst mode:

| Frequency (MHz) | Max Turn up Power (dBm) | Max Turn up Power (mW) | Estimated SAR | Limit | Ratio  | Result |
|-----------------|-------------------------|------------------------|---------------|-------|--------|--------|
| 433.916         | -22.00                  | 0.01                   | 0.002         | 3     | 0.0007 | Pass   |

### Note:

1. The estimated  $\text{SAR} \leq 3.0$  for 1-g SAR, Separation distance  $\leq 5 \text{ mm}$ , complies with the exemption requirements.



## **APPENDIX I - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS**

Note: Please see the attached GC6020-15\_External Photos and GC6020-15\_Internal Photos.

※※※※※END OF THE REPORT※※※※※