

## **CIXI MINGYE COMMUNICATION AND ELECTRONIC CO.,LTD.**

# **MPE ASSESSMENT REPORT**

**Report Type:**

FCC MPE assessment report

**Model:**

AvA1704J-4AC1Q2UC

AvA1704J-1Q2UC,

AvA1704J-1H1Q1R2UC,

AsA1704J-4AC1Q2UC,

AsA1704J-1Q2UC,

AsA1704J-1H1Q1R2UC

**REPORT NUMBER:**

220301543SHA-002

**ISSUE DATE:**

June 23, 2022

**DOCUMENT CONTROL NUMBER:**

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## TEST REPORT

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Report no.: 220301543SHA-002

**Applicant** : CIXI MINGYE COMMUNICATION AND ELECTRONIC CO.,LTD.  
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**Manufacturer** : CIXI MINGYE COMMUNICATION AND ELECTRONIC CO.,LTD.  
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**Manufacturer Site** : CIXI MINGYE COMMUNICATION AND ELECTRONIC CO.,LTD.  
West Industrial District,Guanhaiwei Town,CIXI CITY Zhejiang  
Province 315315  
AvA1704J-4AC1Q2UC

**Type/Model:** : AvA1704J-1Q2UC,  
AvA1704J-1H1Q1R2UC,  
AsA1704J-4AC1Q2UC,  
AsA1704J-1Q2UC,  
AsA1704J-1H1Q1R2UC

**FCC ID** : 2A2N8-171Q2UC

### SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

**FCC PART 1 SECTION 1.1310**

**PREPARED BY:**

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Project Engineer  
Damon Ding

**REVIEWED BY:**

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Reviewer  
Eric Li

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**TEST REPORT****Revision History**

| Report No.       | Version | Description             | Issued Date   |
|------------------|---------|-------------------------|---------------|
| 220301543SHA-002 | Rev. 01 | Initial issue of report | June 23, 2022 |
|                  |         |                         |               |
|                  |         |                         |               |

**TEST REPORT****Measurement result summary**

| TEST ITEM   | FCC REFERENCE | TEST RESULT | NOTE |
|-------------|---------------|-------------|------|
| RF Exposure | 1.1310        | Pass        | -    |

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

**TEST REPORT****1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

|                       |   |
|-----------------------|---|
| Product name:         | Socket Outlet   |
| Type/Model:           | AvA1704J-4AC1Q2UC<br>AvA1704J-1Q2UC,<br>AvA1704J-1H1Q1R2UC,<br>AsA1704J-4AC1Q2UC,<br>AsA1704J-1Q2UC,<br>AsA1704J-1H1Q1R2UC  |
| Description of EUT:   | The EUT is a Scoket Outlet with wireless charging function. it has six models. The main type isAvA1704J-4AC1Q2UC, with 4 socket outlets,with four type A interfaces and two type C interfaces ,with wireless charger,with glass lid and with CBE .The difference between the main type with other types is the size of outlets,with or without two type A interfaces and two type C interfaces ,with or without HDMI,RJ45 extension cord . We test AA10704J-4AC1Q2UC as representative and list the worst results in this report. |
| Rating:               | AC 125V, 15A  |
| Category of EUT:      | Class B   |
| EUT type:             | <input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing   |
| Software Version:     | /   |
| Hardware Version:     | /   |
| Sample received date: | June 1, 2022  |
| Date of test:         | June 1, 2022~ June 23, 2022   |

**1.2 Technical Specification**

|                  |                 |
|------------------|-----------------|
| Frequency Range: | 111kHz – 200kHz |
| Modulation:      | FSK             |
| Antenna:         | Coil antenna    |

**TEST REPORT****1.3 Description of Test Facility**

|            |  |
|------------|--|
| Name:      | Intertek Testing Services Shanghai                                     |
| Address:   | Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China |
| Telephone: | 86 21 61278200   |
| Telefax:   | 86 21 54262353   |

|   |   |
|---|---|
| The test facility is recognized, certified, or accredited by these organizations: | CNAS Accreditation Lab<br>Registration No. CNAS L0139                         |
|   | FCC Accredited Lab<br>Designation Number: CN1175                              |
|   | IC Registration Lab<br>CAB identifier.: CN0051                                |
|   | VCCI Registration Lab<br>Registration No.: R-14243, G-10845, C-14723, T-12252 |
|   | A2LA Accreditation Lab<br>Certificate Number: 3309.02                         |

**TEST REPORT****2 TEST SPECIFICATIONS****2.1 Standards or specification**

FCC PART 1 SECTION 1.1310  
KDB 680106 D01 RF Exposure Wireless Charging App v03

**2.2 Mode of operation during the test**

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

**2.3 Test peripherals list**

| Item No. | Name          | Brand and Model   | Description  |
|----------|---------------|-------------------|--|
| 1        | Wireless load | EESON             | 100%/50%/0% power level                                  |
| 2        | Power Adapter | A138A-120150U-US3 | Input:100-240VAC/50-60Hz<br>Output: 5V-3A/9V-2A/12V-1.5A |

**2.4 Record of climatic conditions**

| Test Item   | Temperature (°C) | Relative Humidity (%) | Pressure (kPa) |
|-------------|------------------|-----------------------|----------------|
| RF Exposure | 24               | 53                    | 101            |

**TEST REPORT****2.5 Instrument list**

| Used                                | Equipment                  | Manufacturer | Type    | Internal no. | Due date   |
|-------------------------------------|----------------------------|--------------|---------|--------------|------------|
| <input checked="" type="checkbox"/> | Exposure Level Tester      | Narda        | ELT-400 | EC 2928      | 2022-08-14 |
| <input checked="" type="checkbox"/> | Field sensor & Field meter | AR           | FL17000 | EC 5818-1    | 2023-05-19 |

**TEST REPORT**

### 3 RF Exposure Assessment

Test result: Pass

#### 3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

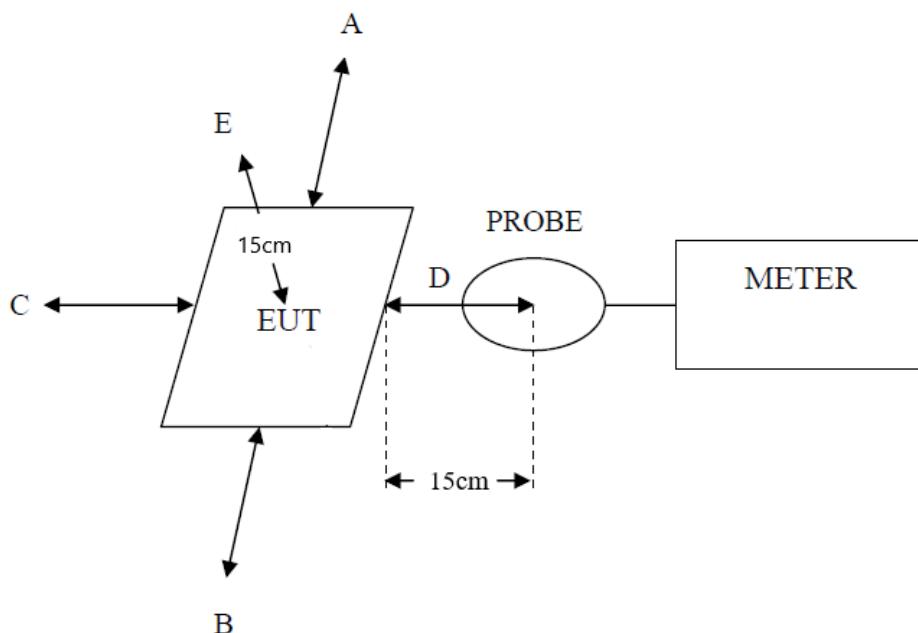
Limits for General Population/Uncontrolled Exposure

| Frequency range<br>[MHz] | Electric field<br>strength<br>[V/m] | Magnetic field<br>strength<br>[A/m] | Power density<br>[mW/cm <sup>2</sup> ] | Averaging time<br>[minutes] |
|--------------------------|-------------------------------------|-------------------------------------|--|-----------------------------|
| 0.1 – 0.3                | 614                                 | 1.63                                | *100                                   | 30                          |
| 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 – 1 500              | -                                   | -                                   | f/1500                                 | 30                          |
| 1 500 – 100 000          | -                                   | -                                   | 1.0                                    | 30                          |

Limits for Occupational/Controlled Exposure

| Frequency range<br>[MHz] | Electric field<br>strength<br>[V/m] | Magnetic field<br>strength<br>[A/m] | Power density<br>[mW/cm <sup>2</sup> ] | Averaging time<br>[minutes] |
|--------------------------|-------------------------------------|-------------------------------------|--|-----------------------------|
| 0.1 – 0.3                | 614                                 | 1.63                                | *100                                   | 6                           |
| 0.3 – 3.0                | 614                                 | 1.63                                | *100                                   | 6                           |
| 3.0 – 30                 | 1842/f                              | 4.89/f                              | *900/f <sup>2</sup>                    | 6                           |
| 30 – 300                 | 61.4                                | 0.163                               | 1.0                                    | 6                           |
| 300 – 1 500              | -                                   | -                                   | f/300                                  | 6                           |
| 1 500 – 100 000          | -                                   | -                                   | 5                                      | 6                           |

#### 3.2 Assessment Configuration



**TEST REPORT****3.3 Assessment Results**

Test result of Magnetic Field Strength:

| Test Position | Test distance<br>(cm) | Test result<br>(A/m) | Limit<br>(A/m) | Result<br>(Pass/Fail) |
|---------------|-----------------------|----------------------|----------------|-----------------------|
| A: Right      | 15                    | 0.0048               | 1.63 *0.5      | Pass                  |
| B: Left       | 15                    | 0.0034               | 1.63 *0.5      | Pass                  |
| C: Front      | 15                    | 0.0057               | 1.63 *0.5      | Pass                  |
| D: Back       | 15                    | 0.0046               | 1.63 *0.5      | Pass                  |
| E: Top        | 15                    | 0.0039               | 1.63 *0.5      | Pass                  |

Test result of Electric Field Strength:

| Test Position | Test distance<br>(cm) | Test result<br>(V/m) | Limit<br>(V/m) | Result<br>(Pass/Fail) |
|---------------|-----------------------|----------------------|----------------|-----------------------|
| A: Right      | 15                    | 0.63                 | 614 *0.5       | Pass                  |
| B: Left       | 15                    | 0.58                 | 614 *0.5       | Pass                  |
| C: Front      | 15                    | 0.47                 | 614 *0.5       | Pass                  |
| D: Back       | 15                    | 0.63                 | 614 *0.5       | Pass                  |
| E: Top        | 15                    | 0.77                 | 614 *0.5       | Pass                  |

\*\*\*\*\* END \*\*\*\*\*