

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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Applicant : CIXI MINGYE COMMUNICATION AND ELECTRONIC CO.,LTD.
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Province 315315

Manufacturer : CIXI MINGYE COMMUNICATION AND ELECTRONIC CO.,LTD.
West Industrial District,Guanhaiwei Town,CIXI CITY Zhejiang
Province 315315

Manufacturer Site : CIXI MINGYE COMMUNICATION AND ELECTRONIC CO.,LTD.
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Type/Model: : AvA1704J-4AC1Q2UC
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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:**REVIEWED BY:**

Project Engineer
Damon Ding

Reviewer
Eric Li

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Revision History

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

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.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Socket Outlet
Type/Model:	AvA1704J-4AC1Q2UC AvA1704J-1Q2UC, AvA1704J-1H1Q1R2UC, AsA1704J-4AC1Q2UC, AsA1704J-1Q2UC, AsA1704J-1H1Q1R2UC
Description of EUT:	The EUT is a Socket Outlet with wireless charging function. it has six models. The main type is AvA1704J-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 AvA1704J-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

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 Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

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 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

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

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

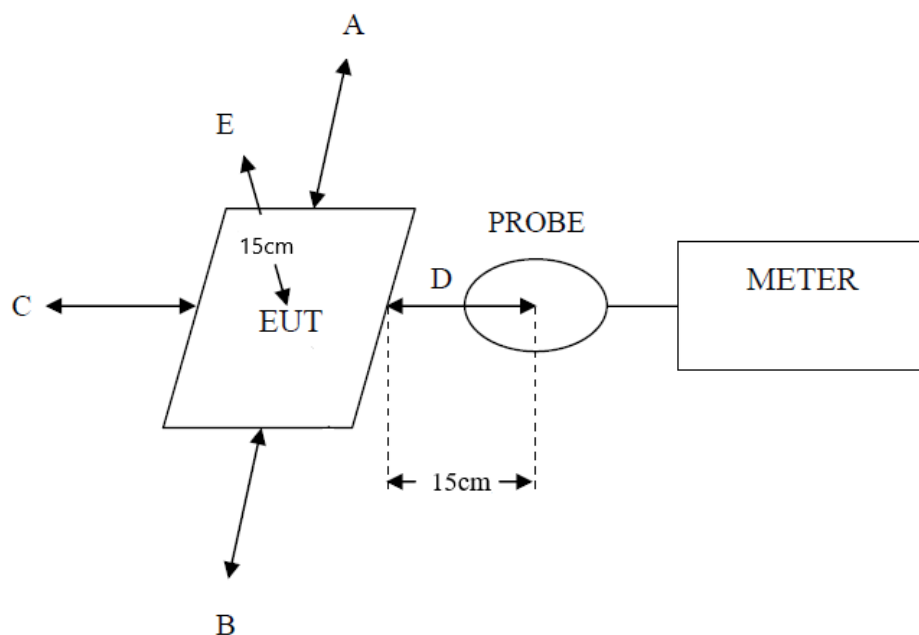
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [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 ²	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 [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [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 ²	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



3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (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 (cm)	Test result (V/m)	Limit (V/m)	Result (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 *****