Cixi Mingye Communlcating and Electronic Co.,Ltd.

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
AA10704J-4AC1Q

REPORT NUMBER:
201000171SHA-003

ISSUE DATE:
August 17, 2021

DOCUMENT CONTROL NUMBER:
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TEST REPORT

Report no.: 201000171SHA-003

Applicant	:	**Cixi Mingye Communlcating and Electronic Co.,Ltd. West Industrial District,Guanhaiwei Town,CIXI CITY Zhejiang Province 315315**
Manufacturer	:	**Cixi Mingye Communlcating and Electronic Co.,Ltd. West Industrial District,Guanhaiwei Town,CIXI CITY Zhejiang Province 315315**
Manufacturer Site	:	**Cixi Mingye Communlcating and Electronic Co.,Ltd. West Industrial District,Guanhaiwei Town,CIXI CITY Zhejiang Province 315315**
Type/Model:	:	AA10704J-4AC1Q
FCC ID	:	2N8-1074AC1Q

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 Dylan Tang	Reviewer Daniel Zhao

TEST REPORT

Revision History

Report No.	Version	Description	Issued Date
201000171SHA-003	Rev. 01	Initial issue of report	August 17, 2021

TEST REPORT

Measurement result summary

TEST ITEM	FCC REFERANCE	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:	AA10704J-4AC1Q
Description of EUT:	The EUT is a Scoket Outlet with wireless charging function. it has only one model.
Rating:	AC 125V, 15A
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	v0.1
Hardware Version:	rev8.0
Sample received date:	July 15, 2021
Date of test:	July 15, 2021 ~ July 30, 2021

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	Band and Model	Description
1	Wireless load	iphone x	100% power level
2	Wireless load	iphone x	50% power level
3	Wireless load	iphone x	0% power level

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
☑	Exposure Level Tester	Narda	NBM-550	EC 6113	2021-12-25
☑	E-Field sensor(100kHz-3GHz)	Narda	EF 0391	EC 6113	2021-12-25
☑	H-Field sensor(300kHz-30MHz)	Narda	HF 3061	EC 6113	2021-12-25
☑	Exposure Level Tester(1Hz-400kHz)	Narda	ELT-400	EC 2928	2022-09-12

2.6 Measurement uncertainty

Test Items	Expanded Uncertainty (k=2)
H-field	0.9 dB
E-field	1.1 dB

3 RF Exposure Assessment

Test result: **Pass**

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

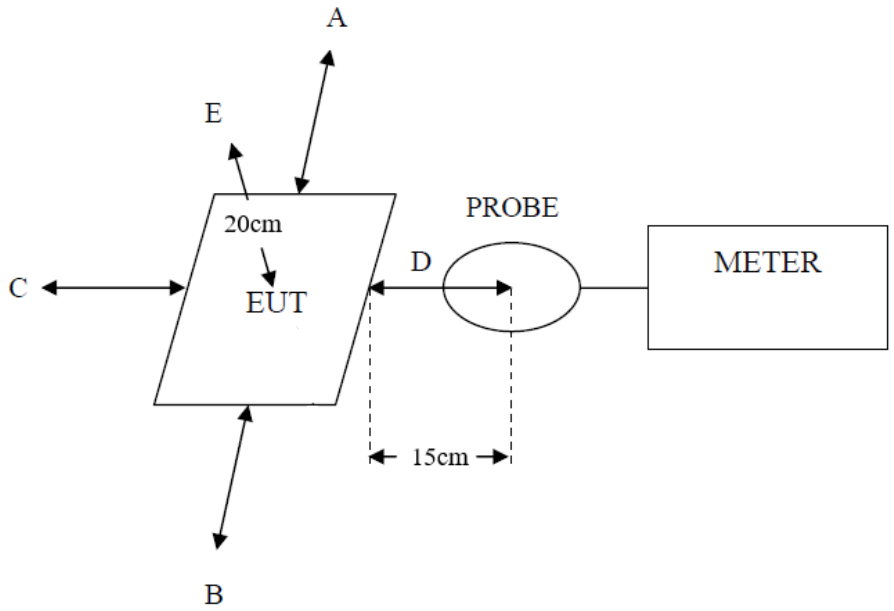
Limits for General Population/Uncontrolled Exposure

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	0.089	1.63 *0.5	Pass
B: Left	15	0.083	1.63 *0.5	Pass
C: Front	15	0.086	1.63 *0.5	Pass
D: Back	15	0.082	1.63 *0.5	Pass
E: Top	20	0.064	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	0.80	614 *0.5	Pass
B: Left	15	0.78	614 *0.5	Pass
C: Front	15	0.83	614 *0.5	Pass
D: Back	15	0.85	614 *0.5	Pass
E: Top	20	0.92	614 *0.5	Pass

********** END **********