

FCC RF EXPOSURE REPORT

CERTIFICATION TEST REPORT

For

WLAN Model

MODEL NUMBER: WM101

FCC ID: 2A46G-WM101A

REPORT NUMBER: 4790792905-1-RF-3

ISSUE DATE: May 9, 2023

Prepared for

Guangzhou Xaircraft Technology CO.,LTD

Block C, No.115, Gaopu Road, Tianhe District, GuangzhouCity, Guangdong, P.R.China

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 9, 2023	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Guangzhou Xaircraft Technology CO.,LTD

Address: Block C, No.115, Gaopu Road, Tianhe District, GuangzhouCity,

Guangdong, P.R. China

Manufacturer Information

Company Name: Guangzhou Xaircraft Technology CO.,LTD

Address: Block C, No.115, Gaopu Road, Tianhe District, GuangzhouCity,

Guangdong, P.R. China

EUT Information

EUT Name: WLAN Model Model: WM101

Sample Received Date: March 28, 2023

Sample Status: Normal Sample ID: 5938560

Date of Tested: April 13, 2023 to May 9, 2023

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
FCC 47CFR§2.1091	PASS			

Prepared By: Checked By:

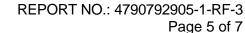
Kebo Zhang Denny Huang

Senior Project Engineer Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager





2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

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. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) 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. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011
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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.

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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/cm²)	Averaging Time E ², H ² or S (Minutes)
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 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



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CALCULATED RESULTS

Worst Case					
Mode	Output Power	Antenna Gain	Power Density	Power Density Limit	Test Result
Mode	dBm	dBi	mW/cm2	mW/cm2	
WIFI 2.4G SISO	18.5	2.5	0.02505	1.0	Complies
WIFI 5G SISO	24	2.5	0.08886	1.0	Complies

Worst Case					
Modo	Output Power	Antenna Gain	Power Density	Power Density Limit	Test Result
Mode	dBm	dBi	mW/cm2	mW/cm2	
WIFI 2.4G MIMO	20	5.51	0.07075	1.0	Complies
WIFI 5G MIMO	26	5.51	0.28166	1.0	Complies

Note:

- 1. The Power comes from report operation description.
- 2. The EUT cannot support simultaneous emission.
- 3. The minimum separation distance of the device is greater than 20 cm.
- 3. Calculate by WORST-CASE mode.

END OF REPORT