



FCC RF EXPOSURE REPORT CERTIFICATION TEST REPORT

For

WiFi Module

WiFi Module

MODEL NUMBER: SI07A

FCC ID: 2AFG6-SI07A

REPORT NUMBER: 4789708221-5

ISSUE DATE: January 21, 2021

Prepared for

Guangzhou Shirui Electronics Co Ltd
192 Kezhu Road, Scientech Park, guangzhou Economic Technology Development
District Guangzhou China

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	01/21/2021	Initial Issue	

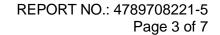




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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Guangzhou Shirui Electronics Co Ltd

Address: 192 Kezhu Road, Scientech Park, guangzhou Economic

Technology Development District Guangzhou China

Manufacturer Information

Company Name: Guangzhou Shirui Electronics Co Ltd

Address: 192 Kezhu Road, Scientech Park, guangzhou Economic

Technology Development District Guangzhou China

EUT Information

EUT Name: WiFi Module

Model: SI07A

Sample Received Date: January 11, 2021

Sample Status: Normal Sample ID: 3616600

Date of Tested: January 12, 2021~ January 20, 2021

APPLICABLE STANDARDS				
TEST RESULTS				
PASS				

Prepared By: Checked By: Shemy les Mick Zhang Shawn Wen Mick Zhang **Project Engineer** Laboratory Leader Approved By:

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Laboratory Manager



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Declaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Accreditation	has been registered and fully described in a report filed with
Certificate	Industry Canada. 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

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



CALCULATED RESULTS

SKI.WB8822CU.1

•	**************************************							
	BT (Worst case)							
	Operating	Max. Tune up Power	Antenna Gain Power density		Limit			
	Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)			
	3DH5	9	3.75	2.37	0.00375	1		

BLE (Worst case)							
Operating Mode	Max. Tune up Power	Antenna Gain		Power density	Limit		
	(dBm)	(dBi)	(num)	(mW/ cm ²)			
BLE-1M	5	3.75	2.37	0.00149	1		

WIFI 2.4G (Worst case)							
Operating	Max. Tune up Power	Directional Gain		Power density	Limit		
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)	Liiiii		
802.11n 20	19	6.48	4.45	0.07026	1		

WIFI 5G (Worst case)							
Operating	Max. Tune up Power	Directional Gain		Power density	Limit		
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)	Liiiii		
802.11n 40	19	7.01	5.02	0.07938	1		

Therefor the maximum calculations of above situations are less than the "1" limit.

END OF REPORT