

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch Report No.: FYCR220300002102

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RF Exposure Evaluation Report

Test Result ·	PASS*		
Date of Issue:	2022-03-24		
Date of Test:	2022-03-15 to 2022-03-21		
Date of Receipt:	2022-03-11		
	47 CFR Part 1.1310		
	47 CFR Part 1.1307		
Standards:	47 CFR Part 2.1091		
FCC ID:	2AOKI-WFM620RSC1		
Trade mark:	Al-Link		
Model No.:	WF-M620-RSC1		
Product Name:	WIFI Module		
Equipment Under Test (EUT)	:		
Address of Factory:	Anzhou Industrial Park, Mianyang, Sichuan, P.R.C		
Factory:	Sichuan AI-Link Technology Co.,Ltd.		
Address of Manufacturer:	Anzhou Industrial Park, Mianyang, Sichuan, P.R.C		
Manufacturer:	Sichuan Al-Link Technology Co.,Ltd.		
Address of Applicant:	Anzhou Industrial Park, Mianyang, Sichuan, P.R.C		
Applicant:	Sichuan AI-Link Technology Co.,Ltd.		
Application No.:	FYCR2203000021AT		

* In the configuration tested, the EUT complied with the standards specified above.

Kidd Yang EMC Laboratory Manager



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2 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2022-03-24		Original	

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	
	WinkeyWarg	
	Winkey Wang/Reviewer	



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4 General Information

4.1 General Description of EUT

Power supply:	RF Chip: DC3.3V	
	Main Board: Powered by Micro USB port	
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)	
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)	
Number of Channels:	802.11b/g/n(HT20):13	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2472MHz	
Channel Spacing:	5MHz	
Antenna Type:	PCB Antenna	
Antenna Gain:	1.77dBi	

Remark:

Model No.: WF-M620-RSC1

This test report (Ref. No.: FYCR220300002102) is only valid with the original test report (Ref. No.: SZEM190301214702).

Review this report and original report, this report just changed the EUT name and changed the antenna.

According to the declaration from the applicant, the models in this report and models in original report were identical, only difference with being changed the antenna.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report the section 2 items were fully retested on model and shown the data in this report, other tests please refer to original report SZEM190301214702.



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4.2 Test Location

All tests were performed at: Compliance Certification Services (Kunshan) Inc. Shenzhen branch. Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC – Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.



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- 4.4 Deviation from Standards None.
- 4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 **RF Exposure Evaluation**

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b) TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
its for Occupational	I/Controlled Exposu	res	
614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6 6
for General Populati	ion/Uncontrolled Ex	oosure	
614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f ²) 0.2 f/1500	30 30 30
	Electric field strength (V/m) hits for Occupationa 614 1842/f 61.4 for General Populati 614 824/f 27.5	Electric field strength (V/m) Magnetic field strength (A/m) nits for Occupational/Controlled Exposure 614 1842/f 61.4 1.63 4.89/f 0.163 for General Population/Uncontrolled Exposure for General Population/Uncontrolled Exposure 824/f 27.5 1.63 0.073	Electric field strength (V/m) Magnetic field strength (A/m) Power density (mW/cm ²) nits for Occupational/Controlled Exposures *(100) 1842/f 1.63 *(100) 1842/f 4.89/f *(900/f ²) 61.4 0.163 1.0 1/300 5 for General Population/Uncontrolled Exposure 5 614 1.63 *(100) 824/f 2.19/f *(180/f ²) 27.5 0.073 0.2 f/1500 1/1500 1/1500

.....

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout^{*}G)/(4^{*} Pi^{*} R 2)$

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

1500–100,000

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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4.1.3 EUT RF Exposure Evaluation

Antenna Gain: 1.77dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.5 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency	Max Conducted	Output Power Power Density		Limit	Result
	(MHZ)	Peak Output Power (dBm)	to Antenna (mW)	at $R = 20 \text{ cm}$ (mW/cm ²)		
Highest	2462	17.40	54.95	0.0164	1.0	PASS

Note: Refer to report No. FYCR220300002101 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -



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