

Report No.: SZEM200100064404

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### **RF Exposure Evaluation Report**

Application No.: SZEM2001000644CR

Applicant: Sichuan Al-Link Technology Co., Ltd.

Address of Applicant: Anzhou, Industrial park, Mianyang, Sichuan, china

Manufacturer: Sichuan Al-Link Technology Co., Ltd.

Address of Manufacturer: Anzhou, Industrial park, Mianyang, Sichuan, china

Product Name: WIFI module

Model No.: WF-R12B-UWD1, WF-R12B-UWD2, WF-R12B-UWD3 .

Please refer to section 4.1 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2AOKI-WFR12BUWD1

47 CFR Part 1.1307

Standards: 47 CFR Part 1.1310

47 CFR Part 2.1091

**Date of Receipt:** 2020-01-19

**Date of Test:** 2020-02-26 to 2020-03-17

Date of Issue: 2020-03-24

Test Result : PASS\*

Keny Xu EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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### 2 Version

	Revision Record								
Version	Chapter	Date	Modifier	Remark					
01		2020-03-24		Original					

Authorized for issue by:		
	Robsonti	
	Edison Li /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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### 4 General Information

### 4.1 General Description of EUT

Power supply:	DC3.3V							
Internal source:	nternal source: More than 108MHz							
For 2.4G WiFi:								
Type of Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK)							
	802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)							
	802.11n (HT	02.11n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)						
Operating Frequency:	802.11b/g/n(	HT20): 2412MHz to 2462MHz						
	802.11n(HT4	10): 2422MHz to 2452MHz						
Channel Number:	802.11b/g/11	n(HT20): 11 Channels						
	802.11n(HT4	l0): 7 Channels						
Channels Step:	Channels wit	h 5MHz step						
Sample Type:	Fixed produc	tion						
Antenna Type:	Please refer	to section 4.1 of this report.						
Antenna Gain:	Please refer	to section 4.1 of this report.						
	Note: The tw	o antennas can simultaneous tr	ansmission.					
For 5G WiFi:								
Operation Frequency:	Band	Mode	Frequency	Number of				
			Range(MHz)	channels				
	UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4				
		802.11n(HT40)/ac(HT40)	5190-5230	2				
		802.11ac(HT80)	5210	1				
	UNII Band II-A	802.11a/n(HT20)/ac(HT20)	5260-5320	4				
		802.11n(HT40)/ac(HT40)	5270-5310	2				
		802.11ac(HT80)	5290	1				
	UNII Band	802.11a/n(HT20)/ac(HT20)	5500-5700	11				
	II-C	802.11n(HT40)/ac(HT40) 5510-5670		5				
		802.11ac(HT80) 5530, 5610MHz		2				
	UNII Band	802.11a/n(HT20)/ac(HT20) 5745-5825		5				
	111	802.11n(HT40)/ac(HT40)	5755-5795	2				
	802.11ac(HT80) 5775 1							
Modulation Type:		DM(64QAM, 16QAM, QPSK, B	•					
	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)							
	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)							
DFS Function:	Slave without radar detection							
Sample Type:	Fixed production							
Antenna Type:	Please refer to section 4.1 of this report.							



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Antenna Gain:

Please refer to section 4.1 of this report.

Note: two antennas can simultaneous transmission.

#### Remark:

Model No.: WF-R12B-UWD1, WF-R12B-UWD2, WF-R12B-UWD3

Only the model WF-R12B-UWD1 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only the model WF-R12B-UWD1 and WF-R12B-UWD2 difference on the connector part and model No., WF-R12B-UWD2 and WF-R12B-UWD3 difference on overall dimension and model No. and for all the above models difference on the cable length of antennas, other details as below:

	Antenna Project Code	Antenna Gain (dBi)	Cable Length (Unit: cm)	Part No.
Walsin RF Device	Code  Metal Antenna	(dBi)  2.4G WiFi  Ant1: 4.51dBi  Ant2: 4.93dBi  5G WiFi:  Ant1: 4.78dBi  Ant2: 4.94dBi	(Unit: cm) 10cm 15cm 20cm 25cm 27cm 30cm 35cm 40cm 45cm 50cm	RFMTA370610IMLB701 RFMTA370615IMLB701 RFMTA370620IMLB702 RFMTA370625IMLB701 RFMTA370627IMLB701 RFMTA370630IMLB702 RFMTA370635IMLB702 RFMTA370640IMLB701 RFMTA370645IMLB701 RFMTA370650IMLB701 RFMTA370650IMLB701
			60cm	RFMTA370660IMLB702



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#### 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 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/cm²)	Averaging time (minutes)	
its for Occupational	/Controlled Exposu	es		
614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6	
for General Populati	on/Uncontrolled Exp	oosure		
614 824/ī 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500	30 30 30 30 30	
	strength (V/m)  its for Occupational  614 1842/f 61.4  for General Populati  614 824/f 27.5	Strength (V/m)   Strength (A/m)	Strength (V/m)   Strength (A/m)   Power defisity (mW/cm²)	

F= Frequency in MHz

Friis Formula

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

Where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

For Uncontrolled Environment, the MPE limit of 300 MHz to 1500 MHz is  $f/1500 \ mW/cm^2$ , the MPE limit of 1500 MHz to 100000 MHz is  $1.0 \ mW/cm^2$ . 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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#### 5.1.3 EUT RF Exposure Evaluation

#### 1) Test Results

Note: The 2.4G WiFi and 5G WiFi can't synchronous transmission at the same time.

#### For 2.4G WiFi:

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Antenna	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
Ant1+2	4.93	3.11	14.84	30.48	0.189	1	0.189	PASS

Note: Refer to report No. SZEM200100064402 or EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

#### For 5G WiFi:

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Antenna	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
Ant1+2	4.94	3.12	14.96	31.33	0.0194	1	0.0194	PASS

Note: Refer to report No. SZEM200100064403 or EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

Since the SAR Exclusion Threshold Level is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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