

RF Exposure Evaluation Report

Report No.: JYTSZ-R12-2500376

Applicant: Zhuhai Jinhong Technology Co., LTD

Address of Applicant: room R07-06,2nd floor, 4th building, number 2007 Mingzhunan road, Zhuhai City, Guangdong Province, China

Equipment Under Test (EUT)

Product Name: WiFi HaLow Bridge

Model No.: AH9066P, AH9066D, RR9066D, RR9066P

Trade mark: N/A

FCC ID: 2AZIK-AH9066P

Applicable standards: FCC CFR Title 47 Part 2 (§2.1091)

Date of sample receipt: 25 Mar., 2025

Date of Test: 26 Mar., to 29 Apr., 2025

Date of report issue: 30 Apr., 2025

Test Result: PASS

Project by: _____

Date: 30 Apr., 2025

Reviewed by: _____

Date: 30 Apr., 2025

Approved by: _____

Date: 30 Apr., 2025

Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	30 Apr., 2025	Original

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3 General Information

3.1 Client Information

Applicant:	Zhuhai Jinhong Technology Co., LTD
Address:	room R07-06,2nd floor, 4th building, number 2007 Mingzhunan road, Zhuhai City, Guangdong Province, China
Manufacturer/Factory:	Zhuhai Jinhong Technology Co., LTD
Address:	room R07-06,2nd floor, 4th building, number 2007 Mingzhunan road, Zhuhai City, Guangdong Province, China

3.2 General Description of E.U.T.

Product Name:	WiFi HaLow Bridge
Model No.:	AH9066P, AH9066D, RR9066D, RR9066P
Operation Frequency:	AH: 902MHz~928MHz
Modulation	AH: OFDM
Antenna Type:	External Rod Antenna
Antenna gain:	2.82 dBi (declare by Applicant)

3.3 Operating Modes

Operating mode	Detail description
AH mode	Keep the EUT in continuously transmitting in AH mode

3.4 Additions to, deviations, or exclusions from the method

No

3.5 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4 Technical Requirements Specification

4.1 Limits

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 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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

4.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

4.3 Result

Mode	Maximum Tune-up power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm ²)	Limits for General Population/ Uncontrolled Exposure (mW/cm ²)	Ratio
802.11ah	30	1000	2.82	1.91	20.00	0.381	0.6	0.635

Note: Just the worst case mode was shown in report.

4.4 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

-----End of report-----