

TEST REPORT

EUT Description	LoRaWAN
Brand Name	RIVAIOT
Model Name	LGW915SH
Additional Model No	NA
FCC ID	2BWC6LGW915SH
Date of Test Start/End	2026-09-15 / 2026-09-27

Applicant	AdoModel Tech Inc.
Address	6679Peachtree Industrial Blvd Suite N, Peachtree Corners, GA30092
Manufacturers	Same as Application
Address	Same as Application
Factory	Same as Application
Address	Same as Application

Reference Standards	447498 D01 General RF Exposure Guidance v06
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Test Report identification	RL20260830006EG Rev. 00
Revision Control	This test report revision replaces any previous test report revision. (see Document Changes)

Test Result:	Pass*
*The EUT complied with the test item(s) of the above standard (s), refer to the test summary for details.	

Authorized for issue by:

 Jim Chen / Project Engineer	 Jason Li / Reviewer
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Document Changes

Status	Date of issue	Revision	Description of the performed changes
Active	2026-09-28	Rev. 00	None (original version).



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3 General Information

3.1 Details of E.U.T.

Power Adapter	Manufacturer: Shenzhen Quanzhengtong Technology Co., Ltd.	
	Model No:QZT-1202000	
	Output :DC12V/2A,24W	
EUT Serial Number	S/N:26526D00001	
LoRa		
Operating Frequency:	LoRa:902.3MHz to 914.9MHz	
Modulation Technique:	LoRa Chirp Spread Spectrum (CSS), FHSS as applicable	
Modulation Type:	CSS	
Number of Channels:	64	
Antenna Type:	FPC antenna	
Antenna Gain*:	☒ Provided by client	
	3dBi	
2.4G WIFI		
Operation Frequency:	2402MHz to 2480MHz	
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK,CCK)
	802.11g:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	20MHz:	802.11b/g(Legacy)/n(HT20)
	40MHz:	802.11n(HT40)
Antenna Type:	PCB Antenna	
Antenna Gain*:	☒ Provided by client	
	2 dBi	
Smart System:	☒ SISO	802.11b/g/n
RF Cable:	2000MHz ~ 3000MHz (1.0dB)	

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Radiolink test lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

Remark:As above information is provided and confirmed by the applicant. Radiolink test lab is not liable to the accuracy, suitability, reliability or/and integrity of the information.

3.2 Test Location

All tests were performed at:

Radiolink Testing (Shenzhen) Co., Ltd.

Room 103, Building B, Jinghang Industrial Park, Area 71, Xingdong Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong Province, China

Tel: +86 0755 23080694

No tests were sub-contracted.

Radiolink Testing (Shenzhen) Co., Ltd.

Room 103, Building B, Jinghang Industrial Park, Area 71, Xingdong Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong Province, China

Tel: +86 0755 23080694

3.3 Test Facility

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

. A2LA (Certificate No. 7572.01)

Radiolink Testing (Shenzhen) Co., Ltd, Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7572.01.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



4 RF Exposure Evaluation For FCC

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at test channel.

4.1.3 EUT RF Exposure Evaluation

Separation Distance: The EUT is evaluated at a minimum separation distance of 20 cm for both LoRa (902.3 MHz) and 2.4G WiFi (2437 MHz) antenna-to-body paths. No other closer installation distance applies.

MPE Formula (power density, far-field):

$$S = \frac{EIRP}{4\pi r^2} = \frac{P_{\text{cond}}(mW) \times 10^{G(dBi)/10}}{4\pi r^2} \quad [mW/cm^2], r \text{ in cm}$$

Where $r = 20$ cm, so denominator $= 4\pi \times 20^2 = 5026.5 \text{ cm}^2$.

Frequency Band	Technology	Max Conducted Power (dBm)	Max Conducted Power (mW)	Antenna Gain (dBi)	E Field Strength (mW/cm ²)	Limit (mW/cm ²)	Result
902.3 MHz	LoRa	18.43	69.66	3	0.0277	0.6	PASS
2437 MHz	2.4G WIFI	13.52	22.49	2	0.0071	1.00	PASS

"Based on the declared maximum tune-up power and antenna gain for both LoRa and 2.4G WiFi modes, the Maximum Permissible Exposure (MPE) distance-weighted field strength/power density for the EUT was calculated. The total MPE ratio (including simultaneous transmission $0.0277/0.6+0.0071/1=0.0533$) is less than 1.0, which complies with the RF exposure limits specified in 47498 D01 General RF Exposure Guidance v06."

- End of the Report -

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