



MPE Report

Report No.:STS2604398H01

Issued for

Longse Technology Limited

No.18, Dongming 3rd, Huangpu District, Guangzhou,
Guangdong, China

Product Name: AOR Battery Wi-Fi Camera

Brand Name: N/A

Model Name: LP5B-A1

Series Model(s): See P2

FCC ID: 2A3CE-LP5B-A1

Test Standard: FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

**TEST REPORT****Applicant's Name**.....: Longse Technology Limited

Address: No.18, Dongming 3rd, Huangpu District, Guangzhou, Guangdong, China

Manufacturer's Name.....: Longse Technology Limited

Address: No.18, Dongming 3rd, Huangpu District, Guangzhou, Guangdong, China

Product Description

Product Name.....: AOR Battery Wi-Fi Camera

Brand Name: N/A

Model Name: LP5B-A1

LP2B-A1, LP2B-A2, LP2B-A3, LP2B-A4, LP4B-A1, LP4B-A2,
LP4B-A3, LP4B-A4, LP5B-A2, LP5B-A3, LP5B-A4, LP8B-A1,
LP8B-A2, LP8B-A3, LP8B-A4, LP2B-B1, LP2B-B2, LP2B-B3,
Series Model(s).....: LP2B-B4, LP4B-B1, LP4B-B2, LP4B-B3, LP4B-B4, LP5B-B1,
LP5B-B2, LP5B-B3, LP5B-B4, LP8B-B1, LP8B-B2, LP8B-B3,
LP8B-B4, LPXB-XX, stands for letters to describe the shape of
the appearance.

Test Standards: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

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Date of Test.....:

Date of receipt of test item.....: 2026-01-08

Date (s) of performance of tests: 2026-01-09 to 2026-02-13

Date of Issue.....: 2026-03-03

Test Result.....: **Pass**

Testing Engineer :

(Aaron Bu)

Technical Manager :

(Skylar Li)

Authorized Signatory :

(Bovey Yang)





TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1 GENERAL DESCRIPTION OF THE EUT	5
1.2 TEST FACTORY	5
2. FCC 47CFR §2.1091 REQUIREMENT	6
2.1 TEST STANDARDS	6
2.2 LIMIT	6
2.3 TEST RESULT	7



Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	2026-03-03	STS2604398H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	AOR Battery Wi-Fi Camera	
Brand Name	N/A	
Model Name	LP5B-A1	
Series Model(s)	LP2B-A1, LP2B-A2, LP2B-A3, LP2B-A4, LP4B-A1, LP4B-A2, LP4B-A3, LP4B-A4, LP5B-A2, LP5B-A3, LP5B-A4, LP8B-A1, LP8B-A2, LP8B-A3, LP8B-A4, LP2B-B1, LP2B-B2, LP2B-B3, LP2B-B4, LP4B-B1, LP4B-B2, LP4B-B3, LP4B-B4, LP5B-B1, LP5B-B2, LP5B-B3, LP5B-B4, LP8B-B1, LP8B-B2, LP8B-B3, LP8B-B4, LPXB-XX, stands for letters to describe the shape of the appearance.	
Model Difference	All the model are the same circuit and RF module, except model names.	
Product Description	The EUT is WIFI Video Doorbell	
	Operation Frequency:	2412-2462MHz
	Modulation Type:	DSSS, OFDM
	Antenna Type:	FPC antenna
	Antenna Gain:	2.26 dBi
Power Rating	DC 3.7V From Battery, DC 5V From Adapter / Solar	
Adapter	NA	
Battery	DC 3.7V	

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f ²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f ²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friis Formula

Friis Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Protocol	Fre. (GHz)	Separatio n distance (cm)	Max Tune up power (dBm)	ANT Gain (dBi)	Power Density (mW/cm ²)	Limit (mW/c m ²)	Ratio	Result
WIFI	2.437	20	19	2.26	0.02655	1	0.02655	Pass

*****END OF THE REPORT*****