



FCC RF EXPOSURE REPORT CERTIFICATION TEST REPORT

For

Door Window by pass Sensor

MODEL NUMBER: AES220

FCC ID: 2AB2QM604ENTRY

REPORT NUMBER: 4789931901-2

ISSUE DATE: May 18, 2021

Prepared for

Leedarson Light Co., Ltd.

Xingtai Industrial Zone, Economic Development Zone, Changtai County
,Zhangzhou City, Fujian Province, P.R.China

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com



Page 2 of 7

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	05/18/2021	Initial Issue	

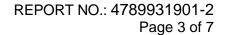




TABLE OF CONTENTS

1.	ATTESTATION OF TEST RESULTS	4
2.	TEST METHODOLOGY	5
	FACILITIES AND ACCREDITATION	
	REQUIREMENT	۰٥



Page 4 of 7

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Leedarson Light Co., Ltd.

Address: Xingtai Industrial Zone, Economic Development Zone, Changtai

County , Zhangzhou City, Fujian Province, P.R. China

Manufacturer Information

Company Name: Leedarson Light Co., Ltd.

Address: Xingtai Industrial Zone, Economic Development Zone, Changtai

County ,Zhangzhou City, Fujian Province,P.R.China

EUT Information

EUT Name: Door Window by pass Sensor

Model: AES220
Brand: LEEDARSON
Sample Received Date: May 8, 2021

Sample Status: Normal
Sample ID: 3887840

Date of Tested: May 8, 2021~ May 14, 2021

APPLICABLE STANDARDS			
STANDARD	TEST RESULTS		
FCC 47CFR§2.1091	PASS		

Prepared By: Checked By:

Kebo Zhang

Project Engineer

Shawn Wen

Laboratory Leader

hemy les

Approved By:

Stephen Guo

Laboratory Manager



REPORT NO.: 4789931901-2 Page 5 of 7

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Declaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with
Ochinicate	Industry Canada. The Company Number is 21320.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	, ,
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.



Page 6 of 7

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with. Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time E ², H ² or S (Minutes)
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

CALCULATION METHOD

 $S=PG/4\pi R^2$

Where:

S=power density

P=power input to antenna

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

R=distance to the center of radiation of the antenna



Page 7 of 7

CALCULATED RESULTS

ZigBee Mode					
Frequency	Output Power	Output Power	Power Density	Power Density Limit	Test Result
MHz	dBm	mW	mW/cm ²	mW/cm ²	
2405 -2480	11	12.59	0.00366	1.0	Complies

Note: 1. Antenna Gain=1.65 dBi (Numeric 1.46), π =3.141.

- 2. The Power comes from operation description.
- 3. The minimum separation distance of the device is greater than 20 cm.
- 4. Calculate by WORST-CASE mode.
- 5. Owing to the maximum Calculated Result is below the limit, so it deemed to comply with the basic restrictions without testing which means that no SAR is required.

END OF REPORT