

FCC RF EXPOSURE REPORT

CERTIFICATION TEST REPORT

For

LA02303B Bluetooth SMART (BLE) Module

MODEL NUMBER: LA02303B

FCC ID: 2AB2Q-LA02303B

REPORT NUMBER: 4790274171.1-1

ISSUE DATE: February 10, 2022

Prepared for

LEEDARSON LIGHTING CO., LTD.
XiXingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian,
China

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	02/10/2022	Initial Issue	

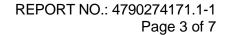




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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: LEEDARSON LIGHTING CO., LTD.

Address: Xingda Road, Xingtai Industrial Zone, Changtai County,

Zhangzhou, Fujian, China

Manufacturer Information

Company Name: LEEDARSON LIGHTING CO., LTD.

Address: Xingda Road, Xingtai Industrial Zone, Changtai County,

Zhangzhou, Fujian, China

EUT Information

EUT Name: LA02303B Bluetooth SMART (BLE) Module

Model: LA02303B

Sample Received Date: January 24, 2022

Sample Status: Normal Sample ID: 4610896

Date of Tested: January 24, 2022 ~ January 30, 2022

APPLICABLE STANDARDS			
STANDARD	TEST RESULTS		
FCC 47CFR§2.1091	PASS		

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Prepared By: Checked By:

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Project Engineer Laboratory Leader

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Stephen Guo

Laboratory Manager



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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 Delcaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Accreditation Certificate	has been registered and fully described in a report filed with ISED.
Certificate	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	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.

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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



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CALCULATED RESULTS

Worst Case					
Mode	Output Power	Antenna Gain	Power Density	Power Density Limit	Test Result
Mode	dBm	dBi	mW/cm2	mW/cm2	
BLE	9	4	0.00397	1.0	Complies

Note:

- 1. The Power comes from report operation description.
- 2. The EUT cannot support simultaneous emission.
- 3. The minimum separation distance of the device is greater than 20 cm.
- 3. Calculate by WORST-CASE mode.

END OF REPORT