

FCC TEST REPORT

Report No.....: AB26060246FW02

FCC ID.....: **2BW6Q-LQLFD-12W**

Applicant.....: Zhongshan Liangqilai Optoelectronics Technology Co., Ltd.

Address.....: 2th Floor, 6th Unit, Guangzhong Road 28th, Liexiyi, Xiaolan Town, Zhongshan City

Manufacturer.....: Zhongshan Liangqilai Optoelectronics Technology Co., Ltd.

Address.....: 2th Floor, 6th Unit, Guangzhong Road 28th, Liexiyi, Xiaolan Town, Zhongshan City

Product Name.....: ball steep light

Trade Mark.....: /

Test Model.....: LQLFD-12W

Additional Model(s).....: LQLQP-7W, LQLQP-9W, LQLQP-12W, LQLFD-7W, LQLFD-24W

Standard.....: FCC Part 2 (Section 2.1091)
KDB 447498 D01
IEEE C95.1

Date of Receipt.....: 2026.06.24

Date of Issue.....: 2026.08.17

Test Result.....: Pass

Compiled by: Huaijie Li
(Printed Name + Signature)

Huaijie Li

Supervised by: David Huang
(Printed Name + Signature)

David Huang

Approved by: Jay Liu
(Printed Name + Signature)

Jay Liu

Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

This test report may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by Aibo. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to Aibo within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit. The test report merely correspond to the test sample.

FCC TEST REPORT

EUT.....	: ball steep light
Test Model.....	: LQLFD-12W
Applicant.....	: Zhongshan Liangqilai Optoelectronics Technology Co., Ltd.
Address.....	: 2th Floor, 6th Unit, Guangzhong Road 28th, Liexiyi, Xiaolan Town, Zhongshan City
Manufacturer.....	: Zhongshan Liangqilai Optoelectronics Technology Co., Ltd.
Address.....	: 2th Floor, 6th Unit, Guangzhong Road 28th, Liexiyi, Xiaolan Town, Zhongshan City

Test Result	Positive
--------------------	-----------------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

REPORT VERSION

Version No.	Issue Date	Description
01	2026.08.17	Initial Issue

TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1. GENERAL DESCRIPTION OF EUT	5
1.2. DESCRIPTION OF TEST FACILITY	6
2. RF EXPOSURE EVALUATION	7
2.1 LIMIT	7
2.2 EVALUATION RESULT	8

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	ball steep light
Trade Mark:	/
Test Model:	LQLFD-12W
Additional Model(s):	LQLQP-7W, LQLQP-9W, LQLQP-12W, LQLFD-7W, LQLFD-24W
Model Difference:	Variations between product models are limited to cosmetic appearance and power consumption, which is tuned via modifying the resistance values of resistors RS1 and RS2. See note.
Hardware Version:	/
Software Version:	/
Power Supply:	AC 120V
EUT Supports Function: (Provided by the customer)	2.4GHz ISM Bands
Test Sample(s) Number:	ABA317260501-S001-01 (Engineer Sample)
Radio Specification Subject to this Report	
Bluetooth Version:	Bluetooth LE
Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Channel Number(s):	40
Antenna Type:	Internal Antenna
Antenna Gain:	0dBi

Note:

Such model variations exert no influence on RF characteristics, so additional testing is not required.

1.2. DESCRIPTION OF TEST FACILITY

Test Lab: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

Tel.: +86 755 85250797

E-mail: aibo@aibonorm.com

Website: www.aibonorm.com

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

A2LA-Lab Certificate No.: 7514.01

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1411

Test Firm Registration Number: 567066

ISED Wireless Device Testing Laboratories

Company Number: 33924

CAB identifier: CN0185

2. RF EXPOSURE EVALUATION

2.1 Limit

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)

Limits for Maximum Permissible Exposure (MPE)

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

f = frequency in MHz

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, $\pi = 3.1416$;

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

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.2 Evaluation Result

Mode	Total Power (dBm)	Antenna Gain	Max.EIRP (dBm)	Max.EIRP (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
BLE	1.57	0	1.570	1.435	0.00028558	1.0	PASS

So a SAR test is not required

*****THE END*****