



RF Exposure Report

For

Applicant Name: Shenzhen Hongruiyuan Industrial Development Co., Ltd
Address: Room 101, 1/F, Block G, No.8 Zaohekeng Industrial Zone, Nanwan Street, Longgang District, Shenzhen, Guangdong Province, China
EUT Name: Led Light Signage
Brand Name: N/A
Model Number: FND
Series Model Number: fnd, fne, fnm, dc, hgA, st4s68, st4s86, st5s12, st5s21

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: BTF240604R00402
Test Standards: 47 CFR Part 2 Subpart J Section 2.1093
FCC ID: 2A5E4-FND
Test Conclusion: Pass
Test Date: 2024-06-05 to 2024-06-21
Date of Issue: 2024-06-22

Prepared By:

Aria Zhang

Date:

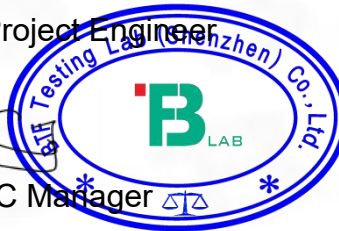
Aria Zhang / Project Engineer
2024-06-22

Approved By:

Ryan.CJ

Date:

Ryan.CJ / EMC Manager
2024-06-22



Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2024-06-22	Original
Note: Once the revision has been made, then previous versions reports are invalid.		

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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
FCC Registration Number:	518915
Designation Number:	CN1330

1.3 Laboratory Condition

Ambient Temperature:	20°C to 25°C
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Product Information

2.1 Application Information

Company Name:	Shenzhen Hongruiyuan Industrial Development Co., Ltd
Address:	Room 101, 1/F, Block G, No.8 Zaohekeng Industrial Zone, Nanwan Street, Longgang District, Shenzhen, Guangdong Province, China

2.2 Manufacturer Information

Company Name:	Shenzhen Hongruiyuan Industrial Development Co., Ltd
Address:	Room 101, 1/F, Block G, No.8 Zaohekeng Industrial Zone, Nanwan Street, Longgang District, Shenzhen, Guangdong Province, China

2.3 Factory Information

Company Name:	Shenzhen Hongruiyuan Industrial Development Co., Ltd
Address:	Room 101, 1/F, Block G, No.8 Zaohekeng Industrial Zone, Nanwan Street, Longgang District, Shenzhen, Guangdong Province, China

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Led Light Signage
Test Model Number:	FND
Series Model Number:	fnd, fne, fnm, dc, hgA, st4s68, st4s86, st5s12, st5s21
Description of Model name differentiation:	Only the model name is different, the others are the same.
Hardware Version	N/A
Software and Firmware Version	N/A

3. Test Requirement

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 7.5$$

Where

-f(GHz) is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

3.1 Assessment Result

☒ Passed ☐ Not Applicable

Type	Frequency (MHz)	Conducted Power (dBm)	Maximum Tune-up (dBm)	Calculating data	Limit	Result
BLE1M	2440	2.91	3	0.622	7.5	Pass

Note: The exposure evaluation safety distance is 5mm.



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Bao'an District, Shenzhen, China

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