



RF Exposure Report

For

Applicant Name: GUANGZHOU SKYDANCE CO., LTD
Address: 2-3 Floor, Building A, No.36, Zhongsan, Shiguang Road,
Zhongcun Street, Panyu District, Guangzhou, China
EUT Name: WiFi& RF 2CH LED Controller
Brand Name: SKYDANCE
Model Number: WT1

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

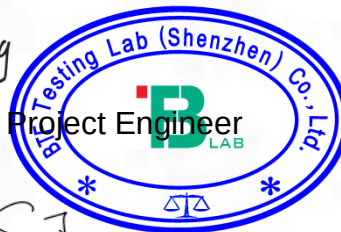
Report Number: BTF230925R00502
Test Standards: 47 CFR Part 2 Subpart J Section 2.1091
FCC ID: 2BDBM-WT1
Test Conclusion: Pass
Test Date: 2023-09-26 to 2023-10-23
Date of Issue: 2023-10-24

Prepared By:

Aria Zhang

Date:

Aria Zhang / Project Engineer
2023-10-24



Approved By:

Ryan.CJ

Date:

Ryan.CJ / EMC Manager
2023-10-24

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2023-10-24	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:	GUANGZHOU SKYDANCE CO., LTD
Address:	2-3 Floor, Building A, No.36, Zhongsan, Shiguang Road, Zhongcun Street, Panyu District, Guangzhou, China

2.2 Manufacturer Information

Company Name:	GUANGZHOU SKYDANCE CO., LTD
Address:	2-3 Floor, Building A, No.36, Zhongsan, Shiguang Road, Zhongcun Street, Panyu District, Guangzhou, China

2.3 Factory Information

Company Name:	GUANGZHOU SKYDANCE CO., LTD
Address:	2-3 Floor, Building A, No.36, Zhongsan, Shiguang Road, Zhongcun Street, Panyu District, Guangzhou, China

2.4 General Description of Equipment under Test (EUT)

EUT Name	WiFi& RF 2CH LED Controller
Under Test Model Name	WT1
Hardware Version	B1
Software and Firmware Version	1.0

3. Test Requirement

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

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: $Pd = (Pout * G) / (4 * \pi * r^2)$

Where

Pd = power density in mW/cm², **Pout** = 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

3.1 Assessment Result

☒ Passed ☐ Not Applicable

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
2478	GFSK	-2.43	-2.00	0.0001	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.



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Bao'an District, Shenzhen, China

www.btf-lab.com

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