TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2A2Y8-EVOKE1200
Test Report No..... :	TCT220509E026
Date of issue..... :	May 26, 2022
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name..... :	Guangdong Nanguang Photo & Video Systems Co., Ltd
Address..... :	DONGLI SECTION, HIGHWAY 324, CHENGHAI, SHANTOU CITY, GUANGDONG PROVINCE, China
Manufacturer's name ... :	Guangdong Nanguang Photo & Video Systems Co., Ltd
Address..... :	DONGLI SECTION, HIGHWAY 324, CHENGHAI, SHANTOU CITY, GUANGDONG PROVINCE, China
Standard(s) ..... :	FCC CFR Title 47 Part 1.1307
Product Name..... :	LED SPOT LIGHT
Trade Mark ..... :	N/A
Model/Type reference..... :	Evoke 1200
Rating(s) ..... :	Input: AC 100-240V, 50/60Hz Output: DC 48V, 25A LED module power: 1200W
Date of receipt of test item ..... :	May 09, 2022
Date (s) of performance of test..... :	May 09, 2022 - May 26, 2022
Tested by (+signature) ... :	Rleo LIU
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin

General disclaimer:

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

1. General Product Information

1.1. EUT description

Product Name.....:	LED SPOT LIGHT
Model/Type reference.....:	Evoke 1200
Sample Number.....:	TCT220509E025-0101
Operation Frequency.....:	2402MHz~2480MHz
Modulation Type.....:	GFSK
Antenna Type.....:	Internal Antenna
Antenna Gain.....:	2dBi
Rating(s).....:	Input: AC 100-240V, 50/60Hz Output: DC 48V, 25A LED module power: 1200W

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

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2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25ºC
Voltage	AC 120V/60Hz
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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3. Facilities and Accreditations

3.1. Facilities

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

- FCC - Registration No.: 645098

  SHENZHEN TONGCE TESTING LAB

  Designation Number: CN1205

  The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

  SHENZHEN TONGCE TESTING LAB

  CAB identifier: CN0031

  The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4. Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1)

For BLE(1M): The maximum output power for antenna is 3.672dBm (2.33mW) at 2480MHz, 2dBi antenna gain(with 1.58 numeric antenna gain);

For BLE(2M): The maximum output power for antenna is 3.679dBm (2.33mW) at 2480MHz, 2dBi antenna gain(with 1.58 numeric antenna gain);

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where E = *Field Strength in Volts / meter*
P = *Power in Watts*
G = *Numeric antenna gain*
d = *Distance in meters*
S = *Power Density in milliwatts / square centimeter*

Substituting the MPE safe distance using d=20cm into above equation.
Yields: $S=0.000199*P*G$

Maximum Emissions Level					
Mode	**Power(mW)**	**numeric antenna gain**	**Power density (mW/cm2)**	**Limit (mW/cm2)**	**Result**
BLE(1M)	2.33	1.58	0.000733	1.0	PASS
BLE(2M)	2.33	1.58	0.000733		

********END OF REPORT********

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