

	TEST REPORT			
FCC ID:	2AJA3LY-WS08A			
Test Report No::	TCT220222E002			
Date of issue::	Mar. 08, 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 LEIYON INTELLIGENCE TECHNOLOGY CORP.			
Address::	BBK Road of Wusha, Changan town, Dongguan city, Guangdong province, 523860 China			
Manufacturer's name:	GUANGDONG LEIYON INTELLIGENCE TECHNOLOGY CORP.			
Address::	BBK Road of Wusha, Changan town, Dongguan city, Guangdong province, 523860 China			
Standard(s)::	FCC CFR Title 47 Part 1.1307			
Product Name::	Karaoke Machine			
Trade Mark:	LEIYON/KARAOKING			
Model/Type reference:	LY-WS08A, G100			
Rating(s):	Adapter Information: Model: YNQX30G150200UL Input: AC 100-240 , 50/60Hz, 1A Output: DC 15.0V, 2.0A, 30.0W			
Date of receipt of test item:	Feb. 22, 2022			
Date (s) of performance of test:	Feb. 22, 2022 - Mar. 08, 2022			
Tested by (+signature) :	John WEN JAN WORLD			
Check by (+signature):	Beryl ZHAO Boy(25 TCT)			
Approved by (+signature):	Tomsin Tomsin His Basin			

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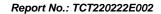




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1. General Product Information

1.1. EUT description

Product Name:	Karaoke Machine	(C)		(c)
Model/Type reference:	LY-WS08A			
Sample Number:	TCT220222E001-0101			
Operation Frequency:	2408MHz~2468MHz		(0)	
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK			
Antenna Type:	PCB Antenna			
Antenna Gain:	0.5dBi			
Rating(s):	Adapter Information: Model: YNQX30G150200UL Input: AC 100-240 , 50/60Hz, 1A Output: DC 15.0V, 2.0A, 30.0W			

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

No.	Model No.	Tested with
1	LY-WS08A	\boxtimes
Other models	G100	

Note: LY-WS08A is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of LY-WS08A can represent the remaining models.



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2. General Information

2.1. Test environment and mode

Item	Normal condition				
Temperature	+25°C				
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
1			1	1

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.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



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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





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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) The maximum output power for antenna is 3.13dBm (2.06mW) at 2402MHz, 0.5dBi antenna gain (with 1.12 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

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

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

Maximum Permissible Exposure

output power= 2.06mW

Numeric Antenna gain= 1.12

Substituting the MPE safe distance using d=20cm into above equation.

Yields:

S=0.000199*P*G

Where P=Power in mW

G=Numeric antenna gain

S=Power density in mW/cm²

Power density= 0.000459mW/cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation

indicates that the power density would be larger.)

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

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