

	TEST REPOR	T				
FCC ID:	2AV7N-DOK1					
Test Report No::	TCT220809E044	(3) (3)				
Date of issue::	Sep. 19, 2022					
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB				
Testing location/ address:	2101 & 2201, Zhenchang Factor Subdistrict, Bao'an District, Sher People's Republic of China	ry Renshan Industrial Zone, Fuhai nzhen, Guangdong, 518103,				
Applicant's name::	GUANGZHOU RANTION TECH	NOLOGY CO., LTD.				
Address::	Room 7002 and 7003, 7th Floor Park, Greater Bay Area, No.28 H Huangpu District, Guangzhou, C	Huangpu Park West Road,				
Manufacturer's name:	GUANGZHOU RANTION TECH	NOLOGY CO., LTD.				
Address:	Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No.28 Huangpu Park West Road, Huangpu District, Guangzhou, China					
Factory's name:	ZHEJIANG TONOCH ELECTRONICS CO., LTD					
Address:	No.1111 Jinhai Road, Cixi Coas District(315311), Zhejiang, China					
Standard(s):	FCC CFR Title 47 Part 1.1307					
Product Name::	Soundwin Karaoke, Soundwin					
Trade Mark:	DONNER					
Model/Type reference:	DO-K1, DO-S1, Soundwin, Sour	ndwin Karaoke				
Rating(s)::	USB rated input: DC 5V, 3.0A Internal Battery: DC7.4V, 5000m	nAh, 37Wh				
Date of receipt of test item	Aug. 09, 2022					
Date (s) of performance of test:	Aug. 09, 2022 - Sep. 19, 2022					
Tested by (+signature) :	Onnado YE	Onrado Wiongce				
Check by (+signature):	Beryl ZHAO	Boy(16 TCT)				
Approved by (+signature):	Tomsin	Joms m 45 82				

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name:	Soundwin Karaoke, Soundwin	
Model/Type reference:	DO-K1	
Sample Number:	TCT220809E006-0101	
Operation Frequency:	2402MHz~2480MHz	
Modulation Type:	For BT: GFSK, π/4-DQPSK, 8DPSK For BLE: GFSK	
Antenna Type:	PCB Antenna	
Antenna Gain:	-2dBi	
Rating(s):	USB rated input: DC 5V, 3.0A Internal Battery: DC7.4V, 5000mAh, 37Wh	

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	DO-K1	
Other models	DO-S1, Soundwin, Soundwin Karaoke	

Note: 1. DO-K1 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 DO-K1 can represent the remaining models.

2. Model DO-K1 has one more built-in MIC receiver than the DO-S1; Model DO-K1 and Soundwin Karaoke are identical except model name; Model DO-S1 and Soundwin are identical except model name.





2. General Information

2.1. Test environment and mode

Item	Normal condition					
Temperature	+25°C					
Voltage	DC 7.4V					
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	Equipment Model 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.



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: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339





4. Test Results and Measurement Data

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidance.

The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison

For BDR+EDR:

Channel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 00	2.402	-0.04	-1±1	0	1.00	5	0.31	3.0

For BLE:

Channel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 00	2.402	-0.75	-1.5±1	-0.5	0.89	5	0.28	3.0

Result

Base on the calculation value, No SAR measurement is required.



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