

TEST REPORT

FCC ID..... :	2AV7N-DED300	
Test Report No..... :	TCT241210E039	
Date of issue..... :	Dec. 20, 2024	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	GUANGZHOU RANTION TECHNOLOGY 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	
Manufacturer's name ... :	GUANGZHOU RANTION TECHNOLOGY 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	
Standard(s)	FCC CFR Title 47 Part 1.1307	
Product Name..... :	Electronic Drum	
Trade Mark	DONNER	
Model/Type reference..... :	DED-300X, DED-300, DED-300 Lite, DED-300 Max, DED-300 Pro	
Rating(s)..... :	Adapter Information: Model No.: GQ24-090200-DX Input: AC 100-240V, 50/60Hz, 1.0A Max Output: DC 9.0V, 2.0A, 18.0W	
Date of receipt of test item	Dec. 10, 2024	
Date (s) of performance of test..... :	Dec. 10, 2024 ~ Dec. 20, 2024	
Tested by (+signature) ... :	Onnado YE	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name.....:	Electronic Drum
Model/Type reference.....:	DED-300X
Sample Number.....:	TCT241210E009-0101
Operation Frequency	2402MHz~2480MHz
Modulation Type.....:	For BT: GFSK, $\pi/4$ -DQPSK, 8DPSK For BLE: GFSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	2.81dBi
Rating(s).....:	Adapter Information: Model No.: GQ24-090200-DX Input: AC 100-240V, 50/60Hz, 1.0A Max Output: DC 9.0V, 2.0A, 18.0W

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	DED-300X	☒
Other models	DED-300, DED-300 Lite, DED-300 Max, DED-300 Pro	☐

Note: DED-300X 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 DED-300X can represent the remaining models.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	AC 120V
Humidity	56%
Atmospheric Pressure:	1010 mbar
Test Mode:	
Transmitting 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.
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

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development 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 §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) BT: The maximum output power for antenna is 0.92dBm (1.24mW) at 2441MHz, 2.81dBi antenna gain(with 1.91 numeric antenna gain.)
BLE: The maximum output power for antenna is 0.87dBm (1.22mW) at 2402MHz, 2.81dBi antenna gain(with 1.91 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 $d=20\text{cm}$ into above equation.

Yields: $S=0.000199 \times P \times G$

Mode	Power (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm ²)	Limit (mW/cm ²)	Result
BT	0.92	1.24	1.91	0.000471	1.00	PASS
BLE	0.87	1.22	1.91	0.000464	1.00	PASS

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