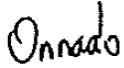




TEST REPORT

FCC ID.	2A3JH-PC406A	
Test Report No.	TCT231023E020	
Date of issue	Oct. 30, 2023	
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	Dongguan Yuzhenrong Trading Co., Ltd.	
Address	Room 204 No.74 Humen Xinlian 9th Street, Humen Village Humen Town Dongguan City Guangdong, China	
Manufacturer's name ...	Dongguan Yuzhenrong Trading Co., Ltd.	
Address	Room 204 No.74 Humen Xinlian 9th Street, Humen Village Humen Town Dongguan City Guangdong, China	
Standard(s)	KDB 447498 D01 General RF Exposure Guidance v06	
Product Name	Wireless multi-mode mechanical keyboard	
Trade Mark	N/A	
Model/Type reference	PC406A	
Rating(s)	Rechargeable Li-ion Battery DC 3.7V	
Date of receipt of test item	Oct. 23, 2023	
Date (s) of performance of test	Oct. 23, 2023 - Oct. 30, 2023	
Tested by (+signature) ...	Onnado YE	
Check by (+signature)	Beryl ZHAO	
Approved by (+signature):	Tomsin	



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1. General Product Information

1.1. EUT description

Product Name.....:	Wireless multi-mode mechanical keyboard
Model/Type reference.....:	PC406A
Sample Number.....:	TCT231023E018 -0101
Operation Frequency	For BT: 2402MHz~2480MHz For 2.4G: 2403MHz~2480MHz
Modulation Type	For BT: GFSK For 2.4G: GFSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	-0.61dBi
Rating(s).....:	Rechargeable Li-ion Battery DC 3.7V

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.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 3.7V
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.
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 KDB 447498 D01 General RF Exposure Guidance v06, 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 \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ 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

• 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 39	2.480	-1.16	-2 \pm 1	-1	0.79	5	0.25	3.0

The maximum peak radiation emission for the EUT is 87.86 dBuV/m at 3 m with frequency 2480 MHz, $EIRP[\text{dBm}] = E[\text{dB}\mu\text{V}/\text{m}] + 20 \log(d[\text{m}]) - 104.77 = -7.37\text{dBm}$.

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 16	2.480	-7.37	-8 \pm 1	-7	0.20	5	0.06	3.0

Result:

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

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