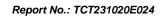


	TEST REPOR	Т							
FCC ID:	2A85Y-K67								
Test Report No::	TCT231020E024	(C)							
Date of issue::	Nov. 08, 2023								
Testing laboratory:	SHENZHEN TONGCE TESTING	S LAB							
Testing location/ address:	Fuhai Subdistrict, Bao'an District	101 & 2201, Zhenchang Factory, Renshan Industrial Zone, uhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 18103, People's Republic of China							
Applicant's name::	DONGGUAN ESWN TECHNOLO	OGY CO., LTD							
Address::	Room106, No.15 chukeng Industrial Road, Dongkeng Town, Dongguan City, Guangdong Province, China								
Manufacturer's name:	DONGGUAN ESWN TECHNOLOGY CO., LTD								
Address::	Room106, No.15 chukeng Industrial Road, Dongkeng Town, Dongguan City, Guangdong Province, China								
Standard(s)::	KDB 447498 D01 General RF Ex	xposure Guidance v06							
Product Name::	Mechanical Keyboard								
Trade Mark:	N/A								
Model/Type reference:	MK PRO 67K, K67 Tri-Mode, K67	7 Dual mode, K67, KB	867						
Rating(s)::	Rechargeable Li-ion Battery DC	3.7V							
Date of receipt of test item:	Oct. 20, 2023	(c <sup>1</sup> )							
Date (s) of performance of test:	Oct. 20, 2023 - Nov. 08, 2023								
Tested by (+signature):	Onnado YE	Onnao Krongce	in the second						
Check by (+signature):	Beryl ZHAO	Boyl 18 TCT	TING						
Approved by (+signature):	Tomsin	Tomsm 45							

### General disclaimer:

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# **Table of Contents**

1. 2. G 2. 2.	General Pro .1. EUT deso .2. Model(s) General Info .1. Test envi .2. Descripti	cription listormation fronment a	and mode.	(49)	(60)	3 4 4
	acilities au .1. Facilities					
	.2. Location est Result					5 6



## 1. General Product Information

## 1.1.EUT description

Product Name:	Mechanical Keyboard	(c)		
Model/Type reference:	MK PRO 67K			
Sample Number:	TCT231020E001-0101			
Operation Frequency:	For BLE: 2402MHz~2480MHz For 2.4G: 2402MHz~2480MHz		(6)	
Modulation Type:	For BLE: GFSK For 2.4G: GFSK	(C)		
Antenna Type:	PCB Antenna			
Antenna Gain:	2.08dBi			
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

No.	Model No.	Tested with
1	MK PRO 67K	
Other models	K67 Tri-Mode, K67 Dual mode, K67, KB67	

Note: MK PRO 67K 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 MK PRO 67K can represent the remaining models.





## 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
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.



Page 4 of 6



### 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 ≤ 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

#### · BLE 1M:

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	-5.24	-6±1	-5	0.32	5	0.10	3.0

#### BLE 2M:

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	-5.6	-6.5±1	-5.5	0.28	5	0.09	3.0

The maximum peak radiation emission for the EUT is 78.21 dBuV/m at 3 m with frequency 2480 MHz, EIRP[dBm] = E[dBµV/m] + 20 log (d[m]) - 104.77 =-17.02dBm.

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 78	2.480	-17.02	-18±1	-17	0.02	5	0.01	3.0

### Result:

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

