

TEST REPORT

FCC ID. :	2A5Z8-877MAX	
Test Report No..... :	TCT240311E007	
Date of issue..... :	Apr. 07, 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..... :	Shenzhen Jos Technology Co., Ltd.	
Address..... :	201, Building B, No. 213 Fuyuan Street, Fenghuang Community, Fuyong Street, Bao'an District, Shenzhen, China	
Manufacturer's name ... :	Shenzhen Jos Technology Co., Ltd.	
Address..... :	201, Building B, No. 213 Fuyuan Street, Fenghuang Community, Fuyong Street, Bao'an District, Shenzhen, China	
Standard(s)	KDB 447498 D01 General RF Exposure Guidance v06	
Product Name..... :	UNIVERSAL GARAGE DOOR WIRELESS KEYPAD	
Trade Mark	N/A	
Model/Type reference..... :	J-877MAX, J-877LM, J-G940EV-P2, J-CMXZDCG440	
Rating(s)..... :	DC 9V	
Date of receipt of test item	Mar. 11, 2024	
Date (s) of performance of test..... :	Mar. 11, 2024 ~ Apr. 07, 2024	
Tested by (+signature) ... :	Onnado YE	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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Table of Contents

1. General Product Information	3
1.1. EUT description	3
1.2. Model(s) list.....	3
2. General Information.....	4
2.1. Test environment and mode.....	4
2.2. Description of Support Units.....	4
3. Facilities and Accreditations	5
3.1. Facilities	5
3.2. Location	5
4. Test Results and Measurement Data	6
4.1. Requirements.....	6
4.2. Test Result	6

1. General Product Information

1.1. EUT description

Product Name.....:	UNIVERSAL GARAGE DOOR WIRELESS KEYPAD
Model/Type reference.....:	J-877MAX
Sample Number.....:	TCT240311E006-0101
Operation Frequency	310MHz ~ 433.92MHz
Modulation Type	FSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	0dBi
Rating(s).....:	DC 9V

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	J-877MAX	☒
Other models	J-877LM, J-G940EV-P2, J-CMXZDCG440	☐

Note: J-877MAX 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 J-877MAX can represent the remaining models.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 9V
Humidity	56%
Atmospheric Pressure:	1008 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-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

4.1. Requirements

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:

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

- $f(\text{GHz})$ 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

4.2. Test Result

Frequency (MHz)	Electric field strength (dBuV/m)@3m	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
310	69.30	-30.63	-31 $\pm$ 1	-30	0.001	5	0.0001	3.0
372.5	69.13	-30.80	-31 $\pm$ 1	-30	0.001	5	0.0001	3.0
390	68.23	-31.70	-32 $\pm$ 1	-31	0.001	5	0.0001	3.0
433.92	69.01	-30.92	-31 $\pm$ 1	-30	0.001	5	0.0001	3.0

Note: computational formula

$\text{EIRP}[\text{dBm}] = \text{E}[\text{dB}\mu\text{V/m}] + 20 \log(d[\text{m}]) - 104.77;$

$\text{Max. Power} = \text{EIRP} - 4.7;$

where

E is the electric field strength in V/m; d is the measurement distance in meters (m)

Result:

Because the max tune up power is less than the exemption limit, so No SAR measurement is required.

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