

TEST REPORT

FCC ID. :	LMZ-80100	
Test Report No..... :	TCT220523E909	
Date of issue..... :	May 27, 2022	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Ocean Star Electronics Ltd.	
Address..... :	Unit 2, 16/F, Fo Tan Industrial Centre, No. 26-28 Au Pui Wan Street, FoTan, Hong Kong	
Manufacturer's name ... :	Ocean Star Electronics Ltd.	
Address..... :	Unit 2, 16/F, Fo Tan Industrial Centre, No. 26-28 Au Pui Wan Street, FoTan, Hong Kong	
Standard(s)	FCC CFR Title 47 Part 1.1307	
Product Name..... :	Suitcase Turntable Wireless Speaker	
Trade Mark	Vivitar, Ocean	
Model/Type reference..... :	V60067BT, LP20	
Rating(s)..... :	Adapter Information: MODEL: GKYP50100050UL1 INPUT: AC 100-240V, 50/60Hz, 0.5A OUTPUT: DC 5V, 1000mA	
Date of receipt of test item	May 23, 2022	
Date (s) of performance of test..... :	Jun. 28, 2019 - May 27, 2022	
Tested by (+signature) ... :	Brews XU	
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

1. General Product Information

1.1. EUT description

Product Name.....:	Suitcase Turntable Wireless Speaker
Model/Type reference.....:	V60067BT
Sample Number.....:	TCT220523E908-0101
Operation Frequency	2402MHz~2480MHz
Modulation Type	GFSK, $\pi/4$ -DQPSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	-0.58dBi
Rating(s).....:	Adapter Information: MODEL: GKYP50100050UL1 INPUT: AC 100-240V, 50/60Hz, 0.5A OUTPUT: DC 5V, 1000mA

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	V60067BT	☒
Other models	LP20	☐

Note: V60067BT 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 V60067BT can represent the remaining models.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	AC 120 V/60 Hz
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: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, 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)

For BT: The maximum output power for antenna is 4.58dBm (2.87mW) at 2441MHz,
-0.58dBi antenna gain(with 0.87 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

$$\text{Given } E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{3770}$$

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

Maximum Emissions Level					
Mode	Power(mW)	numeric antenna gain	Power density (mW/cm ²)	Limit (mW/cm ²)	Result
BT	2.87	0.87	0.000497	1.0	PASS

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