

TEST REPORT

FCC ID.	AUSCR42E	
Test Report No.	TCT220627E043	
Date of issue	Jul. 08, 2022	
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	Modern Marketing Concepts, Inc.	
Address	1220 E Oak, St. Louisville, KY 40204 United States	
Manufacturer's name ...	Timsen Development Limited	
Address	5F, 447# Tianhebei Road, Guangzhou, China	
Standard(s)	FCC CFR Title 47 Part 1.1307 KDB 447498 D04 Interim General RF Exposure Guidance v01	
Product Name	Lancaster Turntable	
Trade Mark	CROSLEY	
Model/Type reference	CR42E-PA, CR42XX-XXXX XX-XXXX can be replaced by letter from "A" to "Z", number from "0" to "9" or blank.	
Rating(s)	Adapter Information: MODEL: GKYZA0130090US INPUT: AC 100-240V, 50/60Hz, 0.5A MAX OUTPUT: DC 9V, 1300mA	
Date of receipt of test item	Jun. 27, 2022	
Date (s) of performance of test	Jun. 27, 2022 ~ Jul. 08, 2022	
Tested by (+signature) ...	Aaron MO	
Check by (+signature)	Beryl ZHAO	
Approved by (+signature):	Tomsin	



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1. General Product Information

1.1. EUT description

Product Name.....:	Lancaster Turntable
Model/Type reference.....:	CR42E-PA
Sample Number.....:	TCT220627E036-0101
Operation Frequency	2402MHz~2480MHz
Modulation Type	For BT: GFSK, $\pi/4$ -DQPSK For BLE: GFSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	0dBi
Rating(s).....:	Adapter Information: MODEL: GKYZA0130090US INPUT: AC 100-240V, 50/60Hz, 0.5A MAX OUTPUT: DC 9V, 1300mA

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	CR42E-PA	<input checked="" type="checkbox"/>
Other models	CR42XX-XXXX XX-XXXX can be replaced by letter from "A" to "Z", number from "0" to "9" or blank.	<input type="checkbox"/>

Note: CR42E-PA 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 CR42E-PA can represent the remaining models.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	AC 120V/60Hz
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 §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 1.61dBm (1.45mW) at 2402MHz, 0dBi antenna gain (with 1.00 numeric antenna gain.)
For BLE: The maximum output power for antenna is -1.32dBm (0.74mW) at 2402MHz, 0dBi antenna gain (with 1.00 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 $E = \frac{\sqrt{30 \cdot P \cdot G}}{d}$ & $S = \frac{E^2}{3770}$

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

Maximum Permissible Exposure result

For BT:

output power= 1.45mW

Numeric Antenna gain= 1.00

Substituting the MPE safe distance using $d=20\text{cm}$ into above equation.

Yields:

$$S = 0.000199 \cdot P \cdot G$$

Where P = Power in mW

G = Numeric antenna gain

S = Power density in mW/cm^2

Power density= $0.000289\text{mW}/\text{cm}^2$

For BLE:

output power= 0.74mW

Numeric Antenna gain= 1.00

Substituting the MPE safe distance using d=20cm into above equation.

Yields:

$$S=0.000199 \cdot P \cdot G$$

Where P =Power in mW

G =Numeric antenna gain

S =Power density in mW/cm²

Power density= 0.000147mW/cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)

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