



MPE Test Report

Report No.: MTi210803002-01E2

Date of issue: Sept. 30, 2021

Applicant: Modern Marketing Concepts, Inc.

Product name: Brio Turntable

Model(s): CR6043A-NA, CR6043XX-XXXX
XX-XXXX can be replaced by
letter from "A" to "Z", number
from "0" to "9" or blank.

FCC ID: AUSCR6043A

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>



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TEST RESULT CERTIFICATION

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

Product description

Product name.....	Brio Turntable
Trademark	CROSLEY
Model Name	CR6043A-NA
Serial Model	CR6043XX-XXXX XX-XXXX can be replaced by letter from "A" to "Z", number from "0" to "9" or blank.
Standards.....	N/A
Test procedure	KDB 447498 D01 v06

Date of Test

Date (s) of performance of tests... :	2021-09-17 ~2021-09-30
Test Result.....:	Pass

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Testing Engineer : *Cindy Qin*

 (Cindy Qin)

Technical Manager : *Leon Chen*

 (Leon Chen)

Authorized Signatory : *Tom Xue*

 (Tom Xue)



1 RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

1.1 Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = Power density in mW/cm²

P_{out} = output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π = 3.1415926

R = distance between observation point and center of the radiator in cm(20cm)

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.



1.2 Measurement Result

BT:

Operation Frequency: BT GFSK, $\pi/4$ -DQPSK: 2402-2480MHz

Power density limited: 1mW/ cm²

Antenna Type: BT Antenna: PCB Antenna;

BT antenna gain: -0.58dBi

R=20cm

$mW=10^{(dBm/10)}$

antenna gain Numeric= $10^{(dBi/10)}=10^{(-0.58/10)}=0.87$

Channel Freq. (MHz)	modulation	conduct ed power	Tune-up power (dBm)	Max		Antenna		Evaluation result (mW/cm ²)	Power density Limits (mW/cm ²)
		(dBm)		tune-up power		Gain			
				(dBm)	(mW)	(dBi)	Numeri c		
2402	GFSK	-0.647	(-1) ±1	0	1.00	-0.58	0.87	0.0002	1
2441		-0.062	(-1) ±1	0	1.00	-0.58	0.87	0.0002	1
2480		-0.473	(-1) ±1	0	1.00	-0.58	0.87	0.0002	1
2402	$\pi/4$ -DQPSK	0.29	1±1	2	1.58	-0.58	0.87	0.0003	1
2441		0.898	1±1	2	1.58	-0.58	0.87	0.0003	1
2480		0.453	1±1	2	1.58	-0.58	0.87	0.0003	1

Conclusion:

For the max result: 0.0003 ≤ 1.0 for 1g SAR, No SAR is required.

----END OF REPORT----