

Shanghai Rongtai Health Technology Corporation Limited

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
RT8800, Circadian

REPORT NUMBER:
211100245SHA-002

ISSUE DATE:
December 2, 2021

DOCUMENT CONTROL NUMBER:
TTRFFCCMPE-02_V1 © 2018 Intertek



Applicant : Shanghai Rongtai Health Technology Corporation Limited
No. 1226, Zhufeng Road, Qingpu, Shanghai 201714, P.R.China

Manufacturer : Shanghai Rongtai Health Technology Corporation Limited
No. 1226, Zhufeng Road, Qingpu, Shanghai 201714, P.R.China

Factory : Shanghai Rongtai Health Technology Corporation Limited
No. 1226, Zhufeng Road, Qingpu, Shanghai 201714, P.R.China

FCC ID : 2ACM7RT8800

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310

PREPARED BY:**REVIEWED BY:**

Project Engineer
Sky Yang

Reviewer
Eric Li

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Revision History

Report No.	Version	Description	Issued Date
211100245SHA-002	Rev. 01	Initial issue of report	December 2, 2021

Measurement result summary

TEST ITEM	FCC REFERENCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Massage Chair
Type/Model:	RT8800, Circadian
Description of EUT:	EUT is a massage chair. It supports wireless charging and Bluetooth functions, the Bluetooth used the approved module, the FCC ID is 2AC7Z-ESP32WROVERE. There are two models, they are the same except model name, Circadian is the guest model. We test RT8800 and list the results in this report.
Rating:	110-120VAC, 60Hz, 1.9A
Category of EUT:	Class B
EUT type:	☐ Table top ☒ Floor standing
Software Version:	/
Hardware Version:	/
Sample number:	0211104-001
Sample received date:	November 04, 2021
Date of test:	November 08, 2021~ November 17, 2021

1.2 Technical Specification

Frequency Range:	111kHz – 205kHz
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1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310

KDB 680106 D01 RF Exposure Wireless Charging App v03

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

2.3 Test peripherals list

Item No.	Name	Brand and Model	Description
1	Mobile Phone	iPhone 6	-

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	24	53	101

2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Exposure Level Tester	Narda	NBM-550	EC 6113	2021-12-25
☒	E-Field sensor(100kHz-3GHz)	Narda	EF 0391	EC 6113	2021-12-25
☒	H-Field sensor(300kHz-30MHz)	Narda	HF 3061	EC 6113	2021-12-25
☒	Exposure Level Tester(1Hz-400kHz)	Narda	ELT-400	EC 2928	2022-09-11

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

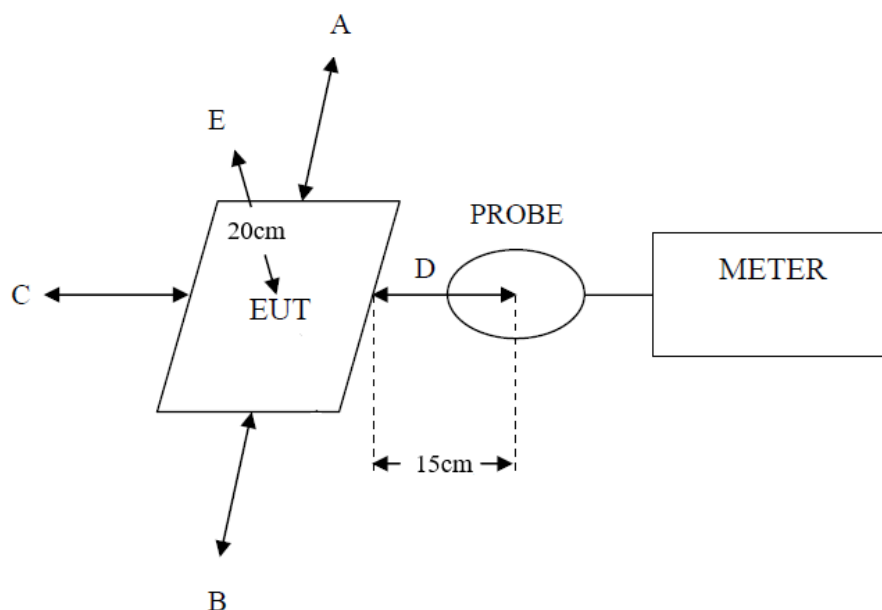
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
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

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
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

3.2 Assessment Configuration



3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.045	1.63 *0.5	Pass
B: Left	15	0.058	1.63 *0.5	Pass
C: Front	15	0.041	1.63 *0.5	Pass
D: Back	15	0.042	1.63 *0.5	Pass
E: Top	20	0.048	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	15	0.71	614 *0.5	Pass
B: Left	15	0.80	614 *0.5	Pass
C: Front	15	0.65	614 *0.5	Pass
D: Back	15	0.68	614 *0.5	Pass
E: Top	20	0.72	614 *0.5	Pass

***** END *****