Global United Technology Services Co., Ltd.

Report No.: GTSL202204000281F02

RF Exposure Report

Applicant: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP

CO., LTD.

Address of Applicant: (5/F) NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN,

CHINA

XIAMEN HEALTHCARE ELECTRONIC CO.,LTD. Manufacturer/Factory:

Address of 65-66#, 62-63# BUILDING, SIMING ZONE, TONGAN

INDUSTRIAL DISTRICT, XIAMEN CITY, FUJIAN PROVINCE, Manufacturer/Factory:

P.R. CHINA

Equipment Under Test (EUT)

Product Name: Massage Chair

Model No .: EC-806R, Osaki - 4D Maestro LE 2.0

FCC ID: YMX-EC806R

Applicable standards: FCC CFR Title 47 Part 1 §1.1307

> FCC CFR Title 47 Part 1 §1.1310 FCC CFR Title 47 Part 2 §2.1091

KDB 680106 D01 RF Exposure Wireless Charging App v03r01

Test date: April 25, 2022

Date of report issue: April 26, 2022

Test Result: PASS *

Authorized Signature:

Robinson Luc Laboratory Manager

^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	April 26, 2022	Original

Prepared By:	Tranklu	Date:	April 26, 2022
	Project Engineer		
Check By:	Johnson Lund	Date:	April 26, 2022
	Reviewer		



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4 General Information

4.1 General Description of EUT

Product Name:	Massage Chair		
Model No.:	EC-806R, Osaki - 4D Maestro LE 2.0		
Test Model No.:	EC-806R		
Remark: All above models	are identical in the same PCB layout, interior structure and electrical circuits.		
The only difference is mode	el name for commercial purpose.		
Serial No.:	EC806R2205100001		
Test sample(s) ID:	GTSL202204000281-1		
Sample(s) Status	Engineer sample		
Operation Frequency:	110.5kHz~205kHz		
Modulation type:	ASK		
Antenna Type:	Inductive loop coil Antenna		
Antenna gain:	0dBi (Max)		
Power supply:	110-120V~, 60Hz		
WPT output power:	10W		



4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC—Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• IC —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

4.3 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123- 128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

4.4 Description of Support Units

Manufacturer	Description	Model	S/N	
YBZ	Wireless charger load	YBZ-10W	N/A	

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.



5 Requirements

Test Methodology:

The tests documented in this report were performed in accordance with FCC CFR Title 47 Part 1 §1.1307, FCC CFR Title 47 Part 1 §1.1310, FCC CFR Title 47 Part 2 §2.1091 and KDB 680106 D01 RF Exposure Wireless Charging App v03r01

Limit:

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)						
Frequency Electric field strength (MHz) (V/m)		Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)		
	(i) Limits for O	ccupational/Controlled Ex	posure			
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		
	(ii) Limits for Gener	al Population/Uncontrolle	d 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.

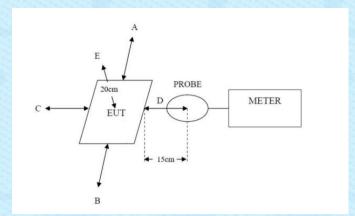
Method Of Measurement:

- a) The RF exposure test was performed in shielded chamber.
- b) The geometric centre of probe was placed at 15 cm test distance surrounding the device and 20 cm above the top surface.
- c) The measurement probe used to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106 D01 RF Exposure Wireless Charging App v03r01.



Test Setup:

Report No.: GTSL202204000281F02



Note: As bottom point is not required to test for desktop devices

Equipment Approval Considerations:

The EUT comply with 680106 D01 RF Exposure Wireless Charging App v03r01.

1. Power transfer frequency is less than 1 MHz.

Yes, the device operated in the frequency range from 110.5kHz to 205kHz.

2. Output power from each primary coil is less than or equal to 15 Watts.

Yes, The maximum output power of each primary coil is 10 watts.

3. The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

Yes, the client device includes only single primary coil.

4. Client device is placed directly in contact with the transmitter.

Yes, Client device is placed directly in contact with the transmitter.

- 5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion). Yes, The EUT is a mobile device.
- 6. The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Yes; The EUT's field strength levels are less than 50% of the MPE limit.

Measuring Instrument Used:

weasuring instrument osea.							
Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
Exposure Level Tester	Narda	ELT-400	N-0231	June. 24 2021	June. 23 2022		
Magnetic field probe 100cm ²	Narda	ELT probe 100cm ²	M0675	June. 24 2021	June. 23 2022		
Broadband field Meter	Narda	NBM-550	E-1273	June. 24 2021	June. 23 2022		
Broadband field Probe	Narda	EF0391	D-0891	June. 24 2021	June. 23 2022		



E Field And H Field Strength Test Result:

Test Mode	Description
Mode 1	Charging with 10 W wireless charging load (Full Load)
Mode 2	Charging with 10 W wireless charging load (Half Load)
Mode 3	Charging with 10 W wireless charging load (No Load)

Note: All the modes had been tested, but only the worst data was recorded in the report (Mode 1).

H-Filed Strength at 15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT (A/m)

	15	cm	20cm		50%	
Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits(A/m)	Limits(A/m)
0.41	0.25	0.37	0.22	0.25	1.63	0.815

E-Filed Strength at 15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT (V/m)

	15cm					50%	
Test	Test	Test	Test	Test	Limits(V/m)		
Position A	Position B	Position C	Position D	Position E		Limits(V/m)	
2.60	1.57	2.39	1.69	1.70	614	307	

Simultaneous Transmission for SAR Exclusion

The WPT and BT, BLE can transmit at the same, need consider simultaneous transmission.

Maximum Simultaneous transmission SAR Ratio for BT, BLE and WPT

	Maximum SAR	Maximum SAR	Maximum SAR	Σ SAR ratio BT + SAR ratio BLE	Limit	Results
N.	Ratio _{BT}	Ratio _{BLE}	Ratio wpt	+ SAR ratio WPT		rtocano
	0.0004	0.0004	0.25	0.2508	1	PASS

Remark: 1.Output power including tune-up tolerance;

2.Evaluate limits for WPT at Field-Strength Limit,

3.Max. SAR Ratio=Max. Evaluation Values/Sar Limit, So:

Maximum SAR Ratio BT =0.0004/1=0.0004

Maximum SAR Ratio BLE =0.0004/1=0.0004

Maximum SAR Ratio WPT =0.41/1.63=0.25



6 Test Setup Photo



Front (Position D)



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