

Shenzhen Most Technology Service Co., Ltd.

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RF Ex	kposure Evaluation Rep	ort		
Report Reference No:				
FCC ID::	YMX-EC8507B			
Compiled by (position+printed name+signature):	File administrators Alisa Luo	Alisa Luo		
Supervised by (position+printed name+signature):	Test Engineer Sunny Deng	Alisa Luo Sunny Deng		
Approved by (position+printed name+signature):	Manager Yvette Zhou	fuller		
Date of issue:	Jun. 20,2024			
Representative Laboratory Name.:	e.: Shenzhen Most Technology Service Co., Ltd.			
Address:	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.			
Applicant's name	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO.,LTD.			
Address:	(5/F)NO.168, QIANPU ROAD,SIMING DISTRICT, XIAMEN,Fujian CHINA			
Test specification/ Standard:	47 CFR Part 1.1307;47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06			
TRF Originator	-			

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Test item description:	Massage Chair
Trade Mark:	N/A
Model/Type reference:	4D Manhattan Duo
Listed Models:	EC-8507B
Modulation Type:	MSK
Operation Frequency:	110-205KHz
Rating:	110-120V~ 60Hz
Hardware Version:	1.0
Software Version	1.0
Result	PASS

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TEST REPORT

Equipment under Test : Massage Chair

Model /Type : 4D Manhattan Duo

Listed Models : EC-8507B

Remark It's just a different model. Everything else is the same

Applicant : XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO.,LTD.

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

CHINA

Manufacturer : XIAMEN HEALTHCARE ELECTRONIC CO.,LTD.

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

INDUSTRIAL DISTRICT, XIAMEN CITY, FUJIAN PROVINCE,

P.R.CHINA

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.06.20	Initial Issue	Alisa Luo

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2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

According to FCC Part1.1310: 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 part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Electric field Magnetic field strength (V/m) (A/m)		Power density (mW/cm²)	Averaging time (minutes)
its for Occupational	/Controlled Exposure	es	
614	1.63	*(100)	6
1842/f	4.89/f	*(900/f ²)	6
61.4	0.163	1.0	6
		f/300	6
	***************************************	5	6
or General Populati	on/Uncontrolled Exp	osure	
614	1.63	*(100)	30
824/f	2.19/f	*(180/f ²)	30
27.5	0.073	0.2	30
	***************************************	f/1500	30
		1.0	30
	strength (V/m) its for Occupational 614 1842/f 61.4 for General Populati 614 824/f 27.5	Strength (V/m) Strength (A/m)	Strength (V/m) Strength (A/m) Power density (mW/cm²) Its for Occupational/Controlled Exposures 614

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2) Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

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

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2.1.3 RF Exposure Evaluation Result

The worst data for WPT:

Ī	Mode	Test	Test	Test	Test	Test	Test	Limit(50%)	Limit
	(MHz)	Position A	Position	Position	Position	Position	Position F	A/m	Tests
			В	C	D	E			A/m
	0.11- 0.205	0.8	/	0.795	/	0.784	0.806	0.815	1.63

Contains FCCID:2AOC9-ZENBDM10A

Mode	Frequency	Atenna Gain		Target Power		Evaluation	Power	MPE
	Range			_		Distance	Density	Limit
							(mw/cm2)	
	(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mw/cm2)	(mw/cm2)
BR/EDR	2402-2480	-1.39	0.7261	4.00	2.5119	20	0.0004	1.0
BLE	2402-2480	-1.39	0.7261	4.00	2.5119	20	0.0004	1.0

Simultaneous TX (WPT+BT)

	Power	Conclusion	
Mode	Reaults	Conclusion	
Simultaneous TX	0.494	1.0	PASS

$$\sum_{i=1}^{a} \frac{P_i}{P_{\text{th},i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{\text{th},j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\; Limit_k} \leq 1$$

Reaults (WPT+BT) =0.0004/1+0.806/1.63=0.494

.....THE END OF REPORT.....