

Hardware Version: 1.0 Software Version 1.0 Result..... PASS

Shenzhen Most Technology Service Co., Ltd.East A, 1 floor of New Aolin Factory building, Langshan Erlu, North District, Hi-tech Industry Park, Nanshan, Shenzhen, Guangdong, China

RF Exposure Evaluation Report							
Report Reference No: FCC ID:	MTEB25030157-H YMX-EC8638A						
Compiled by (position+printed name+signature):	File administrators Alisa Luo	Thisa Luc Sunny Deng Lutter					
Supervised by (position+printed name+signature):	Test Engineer Sunny Deng	Sunny Deng					
Approved by (position+printed name+signature):	Manager Yvette Zhou	fuller					
Date of issue:	Mar.12,2025						
Representative Laboratory Name.:	Shenzhen Most Technology Se	rvice Co., Ltd.					
Address:	East A, 1 floor of New Aolin Factor District, Hi-tech Industry Park, Nar China						
Applicant's name	: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO.,LTD.						
Address:	(5/F)NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, Fujia CHINA						
Test specification/ Standard:	47 CFR Part 1.1307;47 CFR Par KDB447498D01 General RF Exp						
TRF Originator:	·						
Shenzhen Most Technology Service							
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Test item description:	Massage Chair						
Trade Mark:	N/A						
Model/Type reference:	4D-Escape Duo						
Listed Models:	: EC-8638A, EC-8639B, 4D-Vanguard Duo						
Modulation Type:	ASK						
Operation Frequency:	110K-205KHz						
Rating:	110-120V~, 60Hz						

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TEST REPORT

Equipment under Test : Massage Chair

Model /Type : 4D-Escape Duo

Listed Models : EC-8638A, EC-8639B, 4D-Vanguard Duo

Remark Just the model name is different, 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
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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	2025-03-12	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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f2)	6
30–300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000	***************************************	***************************************	5	6
(B) Limits 1	or General Populati	on/Uncontrolled Exp	osure	
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
300-1500			f/1500	30
1500-100,000			1.0	30

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:

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	0.776	/	0.806	/	0.774	0.778	0.815	1.63

Contains FCCID:2AOO6-WLT8016

Mode	Frequency	Atenn	a Gain	Target Power		Evaluation	Power	MPE
	Range					Distance	Density	Limit
							(mw/cm2)	
	(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mw/cm2)	(mw/cm2)
BLE	2402-2480	3	2	7.5	5.62	20	0.0022	1.0

Contains FCCID:YMX-ATS2853

Mode	Frequency	Atenn	a Gain	Target Power		Evaluation	Power	MPE
	Range			_		Distance	Density	Limit
							(mw/cm2)	
	(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mw/cm2)	(mw/cm2)
EDR	2402-2480	-0.58	0.87	2.93	1.96	20	0.00034	1.0
BLE	2402-2480	-0.58	0.87	2.878	1.94	20	0.00036	1.0

Simultaneous TX(WPT+BT)

	Power	Conducion	
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) =0.00022/1+0.00036/1+0.806/1.63=0.494

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