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

RF Exposure Evaluation Report

Report Reference No.:	**MTEB23090272-H**
FCC ID:	**YMX-EC6263E**
Compiled by (position+printed name+signature)..:	File administrators Alisa Luo
Supervised by (position+printed name+signature)..:	Test Engineer Sunny Deng
Approved by (position+printed name+signature)..:	Manager Yvette Zhou
Date of issue:	**September 27,2023**
Representative Laboratory Name:	**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:	Shenzhen Most Technology Service Co., Ltd.

Test item description:	Massage Chair
Trade Mark:	N/A
Manufacturer:	XIAMEN HEALTHCARE ELECTRONIC CO.,LTD.
Model/Type reference:	EC-6263E
Listed Models:	MC4100
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Operation Frequency:	From 2402MHz to 2480MHz
Hardware Version:	1.0
Software Version:	1.0
Rating:	110V-120V～，60Hz
Result:	**PASS**

T E S T R E P O R T

Equipment under Test	:	Massage Chair
Model /Type	:	EC-6263E
Listed Models		MC4100
Remark		Only the model name is different.
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.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023-09-27	Initial Issue	Alisa Luo

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) Limits for Occupational/Controlled Exposures				
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
300–1500	.....	.....	f/300	6
1500–100,000	.....	.....	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
300–1500	.....	.....	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.

2.1.3 EUT RF Exposure

Antenna Gain: 0dBi
Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.4 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:
BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-0.024	-0.024±1	0.976
Middle(2441MHz)	0.583	0.583±1	1.583
Highest(2480MHz)	0.182	0.182±1	1.182

π /4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	0.810	0.810±1	1.810
Middle(2441MHz)	1.236	1.236±1	1.236
Highest(2480MHz)	0.573	0.573±1	1.573

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	1.090	1.090±1	2.090
Middle(2441MHz)	1.579	1.579±1	2.579
Highest(2480MHz)	0.898	0.898±1	1.898

Worst case: π /4DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(2480 MHz)	2.579	1.81	0	0.0003	1.0	Pass

Note: 1) Refer to report **MTEB23090272-R** for EUT test Maximum tune-up Power.
Note: 2) Pd = (Pout*G)/(4* Pi * R2)=(1.81*1)/(4*3.1416*202)=0.0003
Note: 3)EUT's Bluetooth module is more than 20cm away from the human body.

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