

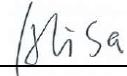
## RF Exposure Evaluation Report

**Report Reference No.**.....: **MTWG2207213-H**

**FCC ID**.....: **2A4VT-A3367S-1**

Compiled by

( position+printed name+signature) ..: File administrators Alisa Luo



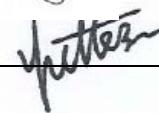
Supervised by

( position+printed name+signature) ..: Test Engineer Sunny Deng



Approved by

( position+printed name+signature) ..: Manager Yvette Zhou



Date of issue.....: **August 23,2022**

**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**.....: **HaozhongHao Health Science and Technology Co., Ltd.**

Address .....: No. 345 Jinhai 2nd Ave., Wenzhou Economic and Technological Development Zone, Wenzhou, 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.

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**Test item description** .....: Massage Chair

Trade Mark .....: N/A

Manufacturer .....: **HaozhongHao Health Science and Technology Co., Ltd.**

Model/Type reference.....: A3367S-1

Listed Models .....: A3363S, MT336, A3367S-5

Modulation Type .....: GFSK, π/4DQPSK, 8DPSK

Operation Frequency.....: 2402MHz to 2480MHz

Hardware Version.....: V1.1

Software Version .....: V1.0

Rating .....: 110-240V~50Hz/60Hz,120W

Result.....: **PASS**

## TEST REPORT

Equipment under Test : Massage Chair

Model /Type : A3367S-1

Listed Models : A3363S, MT336, A3367S-5

Remark : Only difference in Appearance

Applicant : **HaozhongHao Health Science and Technology Co.,Ltd.**

Address : No. 345 Jinhai 2nd Ave., Wenzhou Economic and Technological Development Zone,Wenzhou,China

Manufacturer : **HaozhongHao Health Science and Technology Co.,Ltd.**

Address : No. 345 Jinhai 2nd Ave., Wenzhou Economic and Technological Development Zone,Wenzhou,China

<b>Test Result:</b>	<b>PASS</b>
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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.

## 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022-08-23	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 <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3–3.0 .....	614	1.63	*(100)	6
3.0–30 .....	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300 .....	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614	1.63	*(100)	30
1.34–30 .....	824/f	2.19/f	*(180/f <sup>2</sup> )	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:  $P_d = (P_{out} * G) / (4 * \pi * R^2)$  Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. 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:

EDR

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402 MHz)	3.256	3.256±1	4.256
Middle(2441MHz)	1.552	1.552±1	1.552
Highest(2480MHz)	-1.653	-1.653±1	-1.653

$\pi/4$ DQPSK

$\pi/4$ DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402 MHz)	-0.366	-0.366±1	0.634
Middle(2441MHz)	-0.150	-0.150±1	0.850
Highest(2480MHz)	-0.457	-0.457±1	0.543

8DPSK

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402 MHz)	-0.223	-0.223±1	0.777
Middle(2441MHz)	0.551	0.551±1	1.551
Highest(2480MHz)	-0.628	-0.628±1	0.372

EDR

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit	Result
Highest(2441 MHz)	4.256	2.66	0	0.0005	1.0	Pass

Note: 1) Refer to report **MTWG2207213-R** for EUT test Max Conducted average Output Power value.

Note: 2)  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (2.66 \cdot 1) / (4 \cdot 3.1416 \cdot 20^2) = 0.0005$

Note: 3 )EUT's Bluetooth module is more than 20cm away from the human body.

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