

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Report Template Version: V03

Report Template Revision Date: Mar.1st, 2017

Telephone: +86-755-26648640 Fax: +86-755-26648637

Website: <u>www.cqa-cert.com</u>

# **RF Exposure Evaluation Report**

**Report No.:** CQASZ20190300181E-02

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

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

Manufacturer: XIAMEN HEALTHCARE ELECTRONIC CO.,LTD.

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

DISTRICT, XIAMEN

**Equipment Under Test (EUT):** 

**Product:** Massage Chair

All Model No.: EC-7506B, Osaki Pro Admiral

Test Model No.: EC-7506B

Brand Name: N/A

FCC ID: YMX-EC7506B
Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

**Date of Test:** 2019-03-22 to 2019-05-21

**Date of Issue:** 2019-05-21

Test Result : PASS\*

Tested By:

(Daisy Qin)

Reviewed By:

(Aaron Ma )

MM

Approved By:

华夏准第

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: CQASZ20190300181E-02

# 1 Version

## **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ20190300181E-02	Rev.01	Initial report	2019-05-21





Report No.: CQASZ20190300181E-02

## 2 Contents

		Page
1	1 VERSION	2
	2 CONTENTS	
3	3 GENERAL INFORMATION	4
	3.1 CLIENT INFORMATION	4
	3.2 GENERAL DESCRIPTION OF EUT	4
4	4 SAR EVALUATION	5
	4.1 RF Exposure Compliance Requirement	5
	4.1.1 Standard Requirement	5
	4.1.1 Standard Requirement	5
	4.1.3 EUT RF Exposure	6



Report No.: CQASZ20190300181E-02

### 3 General Information

### 3.1 Client Information

Applicant:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD.
Address of Applicant:	(5/F) NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, China
Manufacturer:	XIAMEN HEALTHCARE ELECTRONIC CO.,LTD.
Address of Manufacturer:	65-66#, 62-63# BUILDING, SIMING ZONE, TONGAN INDUSTRIAL DISTRICT, XIAMEN

### 3.2 General Description of EUT

Product Name:	Massage Chair
All Model No.:	EC-7506B, Osaki Pro Admiral
Test Model No.:	EC-7506B
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V2.1
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	RDA Toolkit 8.03.02 (manufacturer declare )
Antenna Type:	PCB antenna
Antenna Gain:	4.0dBi
Power Supply:	AC120V

Note:

All model: EC-7506B,Osaki Pro Admiral

Only the model EC-7506B was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



Report No.: CQASZ20190300181E-02

#### 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 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.

#### **4.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq$  3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion





Report No.: CQASZ20190300181E-02

### 4.1.3 EUT RF Exposure

#### **Measurement Data**

Measurement Data					
	GFSK	mode			
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-3.770	-4.0±1	-3.0	0.501	
Middle(2441MHz)	-3.190	-4.0±1	-3.0	0.501	
Highest(2480MHz)	-2.740	-3.0±1	-2.0	0.631	
	π/4DQPS	SK mode			
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-3.300	-4.0±1	-3.0	0.501	
Middle(2441MHz)	-2.690	-3.0±1	-2.0	0.631	
Highest(2480MHz)	-2.180	-3.0±1	-2.0	0.631	
	8DPSK	mode			
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-2.850	-3.0±1	-2.0	0.631	
Middle(2441MHz)	-2.180	-3.0±1	-2.0	0.631	
Highest(2480MHz)	-1.730	-2.0±1	-1.0	0.794	

	Maximum	_	Maximum tune- up Power		Calculated	Exclusion
	Peak	Tune up				
Channel	Conducted Output Power (dBm)	tolerance (dBm)	(dBm)	(mW)	value	threshold
Lowest (2402MHz)	-2.850	-3.0±1	-2.0	0.631	0.20	
Middle (2441MHz)	-2.180	-3.0±1	-2.0	0.631	0.20	3.0
Highest (2480MHz)	-1.730	-2.0±1	-1.0	0.794	0.25	

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190300181E-01