

RF Exposure Evaluation Report

Report Reference No...... : **MTWG22030170-H**

FCC ID..... : **2A4VU-SL-A196**

Compiled by

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Date of issue..... : **April 06,2022**

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

Address..... : No.468 Shibali East Road, Daqiao Town, Nanhu District, Jiaxing,
Zhejiang, China.

Test specification/ Standard..... : **47 CFR Part 1.1307**

47 CFR Part 2.1093

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : Massage Chair

Trade Mark..... : iRest

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

Model/Type reference..... : SL-A196-10

Listed Models : 90W: SL-A196-9, SL-A196-11, A197, SL-A197, SL-A197-1, SL-A197-3, SL-A197-5, SL-A197-7, SL-A197-9
70W: R200, A196, SL-A196, SL-A196-1, SL-A196-2, SL-A196-3, SL-A196-5, SL-A196-6, SL-A196-7, SL-A196-8, SL-A197-2, SL-A197-6, SL-A197-8

Modulation Type..... : GFSK, $\pi/4$ DQPSK, 8DPSK

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

Hardware Version..... : V1.1

Software Version..... : V1.0

Rating..... : 110-120V~, 60Hz, 90W

TEST REPORT

Equipment under Test : Massage Chair

Model /Type : SL-A196-10

Listed Models : 90W: SL-A196-9, SL-A196-11, A197, SL-A197, SL-A197-1, SL-A197-3, SL-A197-5, SL-A197-7, SL-A197-9
70W: R200, A196, SL-A196, SL-A196-1, SL-A196-2, SL-A196-3, SL-A196-5, SL-A196-6, SL-A196-7, SL-A196-8, SL-A197-2, SL-A197-6, SL-A197-8

Remark : All models are identical except the model name and 70W series have no heating function.

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

Address : No.468 Shibali East Road, Daqiao Town, Nanhu District, Jiaxing, Zhejiang, China.

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

Address : No.468 Shibali East Road, Daqiao Town, Nanhu District, Jiaxing, Zhejiang, 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.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022-04-06	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

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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

. The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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

2.1.3 EUT RF Exposure

Measurement Data

BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.539	0.539 ± 1	1.539
Middle(2440MHz)	3.205	3.205 ± 1	4.205
Highest(2480MHz)	3.355	3.355 ± 1	4.355

π /4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.415	0.415 ± 1	1.415
Middle(2440MHz)	3.025	3.025 ± 1	4.025
Highest(2480MHz)	3.123	3.123 ± 1	4.123

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.345	0.345 ± 1	1.345
Middle(2440MHz)	2.856	2.856 ± 1	3.856
Highest(2480MHz)	3.125	3.125 ± 1	4.125

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest(2480MHz)	3.355	4.355	2.7	0.847	3.0	Yes

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.296	0.296 ± 1	1.296
Middle(2441MHz)	3.289	3.289 ± 1	4.289
Highest(2480MHz)	4.054	4.054 ± 1	5.054

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2440MHz)	4.054	5.054	3.2	0.998	3.0	Yes

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