

# FUJIAN ROVOS FITNESS CO., LTD.

## MPE ASSESSMENT REPORT

**Report Type:**

FCC Part §2.1091, §2.1093 and §1.1307(b) assessment report

**Model:**

LC3200-S, LC3200-B, LC3300-S, BM-EC8351,  
BM-EC8300, BM-EC8310, RY8351, RY8318,  
RY8302, RY8310, RY8642, RY8640

**REPORT NUMBER:**

190900420SHA-002

**ISSUE DATE:**

September 20, 2019

**DOCUMENT CONTROL NUMBER:**

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**Applicant:** FUJIAN ROVOS FITNESS CO., LTD.  
XibeiYang Industrial Zone, Fuan, Fujian, china

**Manufacturer:** FUJIAN ROVOS FITNESS CO., LTD.  
XibeiYang Industrial Zone, Fuan, Fujian, china

**Manufacturing site:** FUJIAN ROVOS FITNESS CO., LTD.  
XibeiYang Industrial Zone, Fuan, Fujian, china

**Product Name:** Massage Chair  
LC3200-S, LC3200-B, LC3300-S, BM-EC8351, BM-EC8300, BM-EC8310, RY8351, RY8318, RY8302, RY8310, RY8642, RY8640

**Type/Model:**

**FCC ID:** 2AUKE-ROVOS

**SUMMARY:**

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06  
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

**PREPARED BY:****REVIEWED BY:**

Project Engineer  
Chris Chen



Reviewer  
Daniel Zhao

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## Revision History

| Report No.       | Version | Description             | Issued Date        |
|------------------|---------|-------------------------|--------------------|
| 190900420SHA-002 | Rev. 01 | Initial issue of report | September 20, 2019 |
|                  |         |                         |                    |
|                  |         |                         |                    |

## TEST REPORT

### 1 GENERAL INFORMATION

#### 1.1 Description of Equipment Under Test (EUT)

|                       |                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name:         | Massage Chair                                                                                                                                                   |
| Type/Model:           | LC3200-S, LC3200-B, LC3300-S, BM-EC8351, BM-EC8300, BM-EC8310, RY8351, RY8318, RY8302, RY8310, RY8642, RY8640                                                   |
| Description of EUT:   | The EUT is a Massage Chair which contains a Bluetooth 2.1 technology module, the Bluetooth module support BR+EDR and the worst data were listed in this report. |
| Rating:               | AC120V~60Hz 120W                                                                                                                                                |
| Software Version:     | /                                                                                                                                                               |
| Hardware Version:     | /                                                                                                                                                               |
| Sample received date: | Sep 12, 2019                                                                                                                                                    |
| Date of test:         | Sep 12, 2019 ~ Sep 20, 2019                                                                                                                                     |

#### 1.2 Technical Specification

|                       |                                         |
|-----------------------|-----------------------------------------|
| Frequency Range:      | 2400MHz ~ 2483.5MHz                     |
| Support Standards:    | Bluetooth BR+EDR                        |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) |
| Type of Modulation:   | GFSK, $\pi/4$ DQPSK, 8DPSK              |
| Channel Number:       | 79 (0 - 78)                             |
| Data Rate:            | 1Mbps                                   |
| Channel Separation:   | 1MHz                                    |

| Antenna information: |              |            |      |
|----------------------|--------------|------------|------|
| No.                  | Antenna Type | Gain (dBi) | Note |
| 1                    | PCB antenna  | 2.0        | /    |

## TEST REPORT

### 1.3 Description of Test Facility

|            |                                                                        |
|------------|------------------------------------------------------------------------|
| Name:      | Intertek Testing Services Shanghai                                     |
| Address:   | Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China |
| Telephone: | 86 21 61278200                                                         |
| Telefax:   | 86 21 54262353                                                         |

|                                                                                   |                                                                               |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| The test facility is recognized, certified, or accredited by these organizations: | CNAS Accreditation Lab<br>Registration No. CNAS L0139                         |
|                                                                                   | FCC Accredited Lab<br>Designation Number: CN1175                              |
|                                                                                   | IC Registration Lab<br>CAB identifier.: CN0051                                |
|                                                                                   | VCCI Registration Lab<br>Registration No.: R-14243, G-10845, C-14723, T-12252 |
|                                                                                   | A2LA Accreditation Lab<br>Certificate Number: 3309.02                         |

## TEST REPORT

## 2 MPE Assessment

Test result: Pass

### 2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

| Frequency range | E-field strength (V/m) | H-field strength (A/m) | B-field (uT)        | Equivalent plane wave power density $S_{eq}$ (W/m <sup>2</sup> ) |
|-----------------|------------------------|------------------------|---------------------|------------------------------------------------------------------|
| 0-1 Hz          | -                      | $3,2 \times 10^4$      | $4 \times 10^4$     | -                                                                |
| 1-8 Hz          | 10 000                 | $3,2 \times 10^4/f^2$  | $4 \times 10^4/f^2$ | -                                                                |
| 8-25 Hz         | 10 000                 | $4\,000/f$             | $5\,000/f$          | -                                                                |
| 0,025-0,8 kHz   | $250/f$                | $4/f$                  | $5/f$               | -                                                                |
| 0,8-3 kHz       | $250/f$                | 5                      | 6,25                | -                                                                |
| 3-150 kHz       | 87                     | 5                      | 6,25                | -                                                                |
| 0,15-1 MHz      | 87                     | $0,73/f$               | $0,92/f$            | -                                                                |
| 1-10 MHz        | $87/f^{1/2}$           | $0,73/f$               | $0,92/f$            | -                                                                |
| 10-400 MHz      | 28                     | 0,073                  | 0,092               | 2                                                                |
| 400-2 000 MHz   | $1,375 f^{1/2}$        | $0,0037 f^{1/2}$       | $0,0046 f^{1/2}$    | $f/200$                                                          |
| 2-300 GHz       | 61                     | 0,16                   | 0,20                | 10                                                               |

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is  $\leq 1.0$**

## 2.2 Assessment Results

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm<sup>2</sup>

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 190900420SHA-001:

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

| Frequency band | Power |       | Antenna Gain |           | R    | S                     | Limits                |
|----------------|-------|-------|--------------|-----------|------|-----------------------|-----------------------|
| (MHz)          | dBm   | mW    | dBi          | (Numeric) | (cm) | (mW/cm <sup>2</sup> ) | (mW/cm <sup>2</sup> ) |
| 2402 - 2480    | 0.44  | 1.107 | 2            | 1.58      | 20   | 0.0003                | 1                     |

Note: 1 mW/cm<sup>2</sup> from 1.310 Table 1

## Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

\*\*\*\*\* END \*\*\*\*\*