

RF Exposure Evaluation REPORT

Applicant: Shanghai Runmi Technology Co., Ltd.

Address of Applicant: 15th Floor, Building 21B, No.1158, Zhongxin Rd, Songjiang District, Shanghai, China

Equipment Under Test (EUT)

Product Name: UREVO STROL U1 WALKING DEVICE

Model No.: URTM013

Trade mark: UREVO

FCC ID: 2A2Z7-URTM013

Applicable standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

Date of sample receipt: 30 May 2022

Date of Test: 30 May to 30 May 2022

Date of report issued: 13 Jun 2022

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Sean Lin
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	09 Jun 2022	Original

Reviewed by: Sheek Luo
Project Engineer

Date: 09 Jun 2022

Approved by: [Signature]
Laboratory Manager

Date: 09 Jun 2022

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4 General Information

4.1 Client Information

Applicant:	Shanghai Runmi Technology Co., Ltd.
Address of Applicant:	15th Floor, Building 21B, No.1158, Zhongxin Rd, Songjiang District, Shanghai, China
Manufacturer:	Shanghai Runmi Technology Co., Ltd.
Address of Manufacturer:	15th Floor, Building 21B, No.1158, Zhongxin Rd, Songjiang District, Shanghai, China

4.2 General Description of E.U.T.

Product Name:	UREVO STROL U1 WALKING DEVICE
Model No.:	URTM013
Test mode No.:	URTM013
EUT Supports Radios application:	433.92MHz

4.3 Product Specification subjective to this standard

Frequency Range:	433.92MHz
Modulation Type:	FSK
Number of Channels:	1 (declared by the client)
Sample Type:	Mobile production
Antenna Type:	Integral
Antenna Gain:	2.04dBi
Power Supply:	Battery: DC 3V(CR2032)

4.4 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
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.

5.1.2 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:

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

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.

5.1.3 EUT RF Exposure

Measurement Data

EUT RF Exposure Evaluation

$$\text{eirp} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^2 / 30$$

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna,

E = electric field strength in V/m,

d = measurement distance in meters (m),

$$\text{So pt} = (\text{E} \times \text{d})^2 / 30 / \text{gt}$$

Frequency (MHz)	Level (dBuV/m)	Detector	Polarization
433.92	86.36	Peak	Horizontal
433.92	75.89	Average	Horizontal

433.92MHz wireless:

Field strength = 86.36dBuV/m @3m

Ant. gain 2.04dBi; so Ant numeric gain=1.6

$$\text{So pt} = \{ [10^{(86.36/20)} / 10^6 \times 3]^2 / 30 / 1.6 \} \times 1000 \text{mW} = 0.081 \text{mW}$$

$$\text{So } (0.081 \text{mW} / 5 \text{mm}) \times \sqrt{0.43392 \text{GHz}} = 0.0106 \text{ ①},$$

$$S = 3.0 \text{ ②};$$

$$\text{①} < \text{②} \text{ for 1-g SAR.}$$

Field strength = 75.89dBuV/m @3m

Ant. gain 2.04dBi; so Ant numeric gain=1.6

$$\text{So pt} = \{ [10^{(75.89/20)} / 10^6 \times 3]^2 / 30 / 1.6 \} \times 1000 \text{mW} = 0.007 \text{mW}$$

$$\text{So } (0.0073 \text{mW} / 5 \text{mm}) \times \sqrt{0.43392 \text{GHz}} = 0.00096 \text{ ①},$$

$$S = 3.0 \text{ ②};$$

$$\text{①} < \text{②} \text{ for 1-g SAR.}$$

So the SAR report is not required.

-----End of report-----