


# TEST REPORT

**Application No.:** GZCR2402000161HS  
**Applicant:** STEPR Pty Ltd  
**Address of Applicant:** 2 Activity Crescent, Molendinar, Queensland 4214, AUSTRALIA  
**Manufacturer:** STEPR Inc  
**Address of Manufacturer:** 300 Delaware Ave. Suite 210 #524, Wilmington, DE 19801 United States.  
**Factory:** Xiamen K-power Sports Co., Ltd  
**Address of Factory:** 1333 Tonghui Nan Road, Tong'An, Xiamen, Fujian, China  
**Product Name:** STEPR PRO Stair Climber  
**Model No.:** STEPR-PRO-CL, STEPR-PRO-H ♣  
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.  
**Trade Mark:**   
**Standard(s) :** 47 CFR Part 1.1310  
KDB 680106 D01 Wireless Power Transfer v04  
KDB 447498 D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2024-02-06  
**Date of Test:** 2024-04-12  
**Date of Issue:** 2024-06-28

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.



Ricky Liu  
Manager





SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-TRF-01 Rev 1.1

Report No.: GZCR240200016103

Page: 2 of 15

Revision Record			
Version	Report No.	Date	Remark
01	GZCR240200016103	2024-06-28	Original

Authorized for issue by:			
		Luke Lin	
		Luke Lin/Project Engineer	
		Vico Cui	
		Vico Cui/Reviewer	



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch EMC Laboratory

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## 2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Magnetic field strength	47 CFR Part 1.1310	KDB 680106 D01	47 CFR Part 1.1310 & KDB 680106 D01	Pass

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

**♣ Declaration of EUT Family Grouping:**

**Model No.:** STEPR-PRO-CL, STEPR-PRO-H

According to the declaration from the applicant, the difference between models STEPR-PRO-CL and STEPR-PRO-H is display and wireless function.

STEPR-PRO-H (Marked as M1) has TFT display which integrate Wi-Fi, Bluetooth Classic and WPC functions.

STEPR-PRO-CL (Marked as M2) has LED display which integrate Bluetooth LE and WPC functions.

Models STEPR-PRO-H and STEPR-PRO-CL have same WPC function.

Therefore, only model M1: STEPR-PRO-H (M1) was tested in this report.

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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: AC 100-240V, 50/60Hz  
Test voltage: AC 120V, 60Hz  
Cable(s): AC mains, 3 wires, 1.8m, unshielded.  
USB 2.0 Port x1 for charging function.  
Micro USB Port x1 for charging function.  
Operation frequency: 112.18 kHz to 148.693 kHz  
Modulation type: Load Modulation  
Antenna Type: Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	APPLE	iPhone 12 mini	F71DP3NG0GQY

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Magnetic field strength	MF:U=0.13dB,EF:U=0.4dB
<p>Remark:</p> <p>The <math>U_{lab}</math> (lab Uncertainty) is less than <math>U_{etsi}</math> (ETSI Uncertainty), so the test results</p> <ul style="list-style-type: none"> <li>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;</li> <li>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.</li> </ul>	

### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,  
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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## 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### ● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

### ● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

### ● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

### ● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

### ● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

### ● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Magnetic field strength					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2022-10-16	2025-10-15
MAGPy-8H3D+E3D	SPEAG	MAGPy	SEMC060-31	2023-11-15	2024-11-14
MAGPy-DAS	SPEAG	MAGPy	SEMC060-32	2023-11-15	2024-11-14

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2023-06-11	2024-06-10



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## 6 Radio Spectrum Matter Test Results

### 6.1 Magnetic field strength

Test Requirement 47 CFR Part 1.1310 & KDB 680106 D01

Test Method: KDB 680106 D01

Limit:

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  
 \*=Plane-wave equivalent power density  
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 59.8 % RH

Atmospheric Pressure: 1020 mbar



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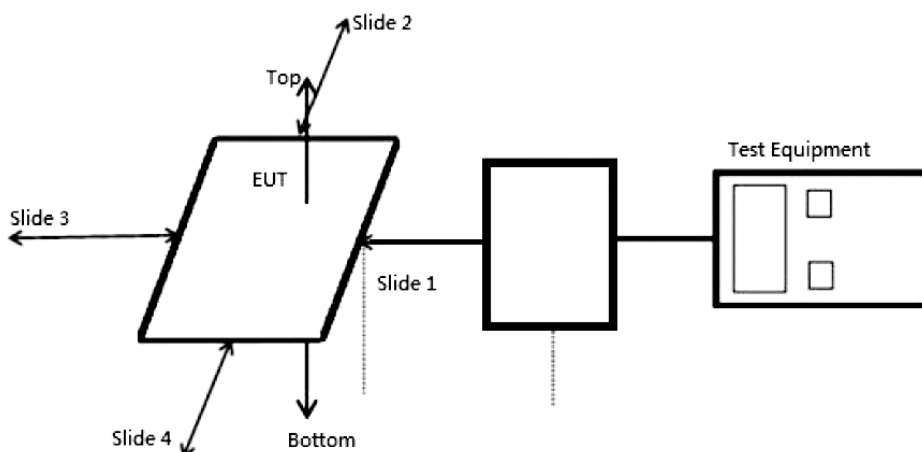
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### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

### 6.1.3 Test Setup Diagram



#### 6.1.4 Measurement Procedure and Data

Output Voltage= DC 5 V; The max output power = 10 W; Calculation of resistor value=2.5  $\Omega$

##### Electric Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(V/m)			Limit (V/m)
			unload	Half load	full load	
127.66kHz which is the worst case within the operation frequency range	20	Side 1	21	17	25	<=61.4
		Side 2	19	15	26	
		Side 3	18	16	27	
		Side 4	21	16	31	
		Top	51	57	67	
		Bottom	23	29	37	

##### Magnetic Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(A/m)			Limit (A/m)
			unload	Half load	full load	
127.66kHz which is the worst case within the operation frequency range	20	Side 1	0.18	0.19	0.21	<=1.63
		Side 2	0.17	0.18	0.19	
		Side 3	0.19	0.21	0.24	
		Side 4	0.17	0.19	0.21	
		Top	1.23	1.36	1.41	
		Bottom	0.54	0.49	0.69	

Mobile phone has been charged at zero charge, intermediate charge, and full charge.

##### Electric Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(V/m)			Limit (V/m)
			zero charge	intermediate charge	full charge	
127.66kHz which is the worst case within the operation frequency range	20	Side 1	22	23	27	<=61.4
		Side 2	21	19	26	
		Side 3	19	21	29	
		Side 4	24	20	28	
		Top	51	61	69	
		Bottom	28	35	41	

## Magnetic Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(A/m)			Limit (A/m)
			zero charge	intermediate charge	full charge	
127.66kHz which is the worst case within the operation frequency range	20	Side 1	0.45	0.39	0.34	<=1.63
		Side 2	0.52	0.37	0.36	
		Side 3	0.48	0.43	0.37	
		Side 4	0.65	0.39	0.32	
		Top	1.32	1.41	<b>1.42</b>	
		Bottom	0.61	0.65	0.55	

\*Remark: The test distance 20 cm was the worst case of all the distance declared in user manual by applicant.

Multiple transmitter-According to Section 7.2 of KDB 447498 D01 General Radio Frequency Exposure Guidelines v06

For Model: STEPR-PRO-H

(Also contain FCC ID: 2AL6KBL-M8821CS1(One Antenna) & FCC ID: 2AXTXBT-ZYLY-D (One Antenna))



RF exposure of FCC ID: 2AL6KBL-M8821CS1

### Bluetooth

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm <sup>2</sup> )	MPE Limits (mW/cm <sup>2</sup> )
	dBm	mW					
GFSK	5.00	3.1623	2.00	1.5849	100%	0.0010	1.0000
π/4DQPSK	5.00	3.1623	2.00	1.5849	100%	0.0010	1.0000
8DPSK	5.00	3.1623	2.00	1.5849	100%	0.0010	1.0000
GFSK(BT LE)	4.00	2.5119	2.00	1.5849	100%	0.0008	1.0000

### 2.4G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm <sup>2</sup> )	MPE Limits (mW/cm <sup>2</sup> )
	dBm	mW					
802.11b	13.00	19.9526	2.00	1.5849	100%	0.0063	1.0000
802.11g	13.00	19.9526	2.00	1.5849	100%	0.0063	1.0000
802.11n(HT20)	11.00	12.5893	2.00	1.5849	100%	0.0040	1.0000
802.11n(HT40)	9.00	7.9433	2.00	1.5849	100%	0.0025	1.0000

### 5.2G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm <sup>2</sup> )	MPE Limits (mW/cm <sup>2</sup> )
	dBm	mW					
802.11a	12.00	15.8489	2.00	1.5849	100%	0.0050	1.0000
802.11n20	12.00	15.8489	2.00	1.5849	100%	0.0050	1.0000
802.11ac20	12.00	15.8489	2.00	1.5849	100%	0.0050	1.0000
802.11n40	12.00	15.8489	2.00	1.5849	100%	0.0050	1.0000
802.11ac40	12.00	15.8489	2.00	1.5849	100%	0.0050	1.0000
802.11ac80	12.00	15.8489	2.00	1.5849	100%	0.0050	1.0000

### 5.8G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm <sup>2</sup> )	MPE Limits (mW/cm <sup>2</sup> )
	dBm	mW					
802.11a	10.00	10.0000	2.00	1.5849	100%	0.0032	1.0000
802.11n20	10.00	10.0000	2.00	1.5849	100%	0.0032	1.0000
802.11ac20	10.00	10.0000	2.00	1.5849	100%	0.0032	1.0000
802.11n40	10.00	10.0000	2.00	1.5849	100%	0.0032	1.0000
802.11ac40	10.00	10.0000	2.00	1.5849	100%	0.0032	1.0000
802.11ac80	10.00	10.0000	2.00	1.5849	100%	0.0032	1.0000

RF exposure of FCC ID: 2AXTXBT-ZYLY-D

### BT

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm <sup>2</sup> )	MPE Limits (mW/cm <sup>2</sup> )
	dBm	mW					
GFSK	3.00	1.9953	-0.58	0.8750	100%	0.0003	1.0000
π/4DQPSK	3.00	1.9953	-0.58	0.8750	100%	0.0003	1.0000
GFSK(BT LE)	3.00	1.9953	-0.58	0.8750	100%	0.0003	1.0000

The 2.4G/5G Wi-Fi, BT Classic (both modules), BT BLE (both modules) & WPC can be transmitted at the same time, so the result is  $0.0063/1+0.005/1+0.001/1+0.0003/1+1.42/1.63=0.8838<1$ , so the device meets the RF exposure and without SAR test.



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For Model: STEPR-PRO-CL

(Also contain FCC ID: 2A006-WLT5283M (Only one Antenna))

For BLE

For Bluetooth BLE

Antenna Gain: 3 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2402	1.99526231	2.04	1.60	0.00063	1	Complies
2440	1.99526231	1.59	1.44	0.00057	1	Complies
2480	1.99526231	1.61	1.45	0.00058	1	Complies

The BT BLE and WPC can be transmitted at the same time, so the result is  $0.00063/1+1.42/1.63=0.00063+0.8712=0.8718<1$ , so the device meets the RF exposure and without SAR test.



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## 7 Test Setup Photo

Refer to Appendix - Test Setup Photos for report GZCR240200016103.



## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2402000161HS

- End of the Report -



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