

RF Exposure Evaluation Report

Application No.: GZEM2011016365CR
Applicant: Sunny Health&Fitness
Address of Applicant: 218 Tumbull Canyon Rd, City of industry, CA 91745, USA
Manufacturer: SHUHUA SPORTS CO., LTD
Address of Manufacturer: Shichun Industrial Park, Chidian town, Jinjiang, Quan Zhou, Fujian
Factory: SHUHUA SPORTS CO., LTD
Address of Factory: Shichun Industrial Park, Chidian town, Jinjiang, Quan Zhou, Fujian
Equipment Under Test (EUT):
EUT Name: Motorized Treadmill
Model No.: SF-T7917
Trade Mark: Sunny Health&Fitness
Standard(s): 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2020-11-11
Date of Test: 2020-11-23 to 2021-01-28
Date of Issue: 2021-05-21

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-05-21		Original

Authorized for issue by:			
Tested By			
	Curry_Wu /Project Engineer		
Reviewed By			
	Ricky_Liu /Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR Part 1.1307	KDB447498D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	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.



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3 Contents

	Page
1 Cover Page.....	1
2 Test Summary.....	3
3 Contents.....	4
4 General Information.....	5
4.1 Details of E.U.T.....	5
4.2 Description of Support Units.....	5
4.3 Test Location.....	5
4.4 Test Facility.....	6
4.5 Deviation from Standards.....	7
4.6 Abnormalities from Standard Conditions.....	7
5 Radio Spectrum Technical Requirement.....	8
5.1 RF Exposure.....	8
5.1.1 Test Requirement:.....	8
5.1.2 Conclusion.....	8
6 Photographs.....	9
6.1 EUT Constructional Details.....	9



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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 110V, 50Hz 930W
Test Voltage:	AC 110V 50Hz
Cable:	about 0.8m unscreened 3 wires AC mains cable
Antenna Gain:	0dBi
Antenna Type:	PCB antenna
Channel Spacing:	1MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK
Number of Channels:	79
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)

4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.3 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**
 SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.
 The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- **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.
- **CNAS (Lab Code: L0167)**
 SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.
- **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, IECCE 01 and Rules of procedure IECCE 02, and the relevant IECCE CB-Scheme Operational documents.



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4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

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:

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

5.1.2 Conclusion

Antenna Gain: -0.58 dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.875 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Lowest	2402	-26.77	0.0021	0.0000004	1.0	PASS

Note: Refer to report No. GZEM201101636502 for EUT test Max Conducted Peak Output Power value.

The distance r (4th column) calculated from the Friis transmission formula is far greater than 20 cm separation requirement.



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6 Photographs

6.1 EUT Constructional Details

Please refer to Appendix A - Photographs of EUT Constructional Details for GZEM2011016365CR.

--End of Report--



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