

EMC-TRF-03 Rev 1.1 Report No.: GZCR230800088702

Page: 1 of 8 FCC ID: 2A9RC-HR200

# RF EXPOSURE EVALUATION REPORT

Application No.:GZCR2308000887HSApplicant:Sunny Health & Fitness

Address of Applicant: 218 Turnbull Canyon Rd, City of Industry, CA 91745, United States of

America

Manufacturer: Amoy YG Sports Technology Co., Ltd.

Address of Manufacturer: Room 505, North of Chengye Building, Pioneer Park, Torch High-tech Zone,

Xiamen, Fujian, China

Factory: Amoy YG Sports Technology Co., Ltd.

**Address of Factory:** Room 505, North of Chengye Building, Pioneer Park, Torch High-tech Zone,

Xiamen, Fujian, China

**Equipment Under Test (EUT):** 

**EUT Name:** Sunny Fit Heart Rate Monitor **Model No.:** HR200, B0C82X2BYQ ♣

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark:

Standard(s): KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2023-08-29

**Date of Evaluation:** 2023-09-11 to 2023-09-11

**Date of Issue:** 2023-10-16

Evaluation Result: Pass\*

Ricky Liu Manager



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<sup>\*</sup> In the configuration evaluated, the EUT complied with the standards specified above.



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Revision Record					
Version	Report No.	Date	Remark		
01	GZCR230800088702	2023-10-16	Original		

Authorized for issue by:			
	Jim Li		
	Jim Li/Project Engineer	_	
	vius cui		
	Vico Cui/Reviewer	-	



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## 2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	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.: HR200, B0C82X2BYQ

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name.

Therefore only one model **HR200** was tested in this report.



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### 4 General Information

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

Power supply: DC 3.7V by rechargeable Lithium Polymer battery as below:

Model: 401223

Rated: DC 3.7 V, 90mAh, 0.33Wh

Cable(s): USB 2.0 to Magnetic connector support for charge 0.8m

For BT BLE

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.0 LE
Modulation Type: GFSK
Number of Channels: 40
Channel Spacing: 2MHz

Antenna Type: PCB Antenna

Antenna Gain: 1.88dBi

Antenna Number: 1

For ANT+

Operation Frequency: 2457 MHz
Modulation Type: GFSK
Number of Channels: 1

Antenna Type: PCB Antenna

Antenna Gain: 1.88dBi

Antenna Number: 1

### 4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech 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 Facility

The 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.

#### 4.4 Deviation from Standards

None

#### 4.5 Abnormalities from Standard Conditions

None



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## 5 Technical Requirements Specification

### 5.1 RF Exposure Evaluation

#### 5.1.1 Limit & Test Method

KDB447498D01 General RF Exposure Guidance v06

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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 calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  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

For BLE								
The Maximum Conducted Peak Output Power is			-0.6	dBm in chann	iel	2.402	GHz;	
-0.56	dBm logarithmic terms convert to numeric result is			t is nea	arly	0.879	mW	
[(max. powe	[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$							
BLE F	RF Exposure = (	0.879	mW / 5 mm ) x 1		2.402	GHz =	0.272	①;
For ANT+								
The Maximum Conducted Peak Output Power is -1.1 dBm in channel					2.457	GHz;		
-1.13	dBm logarithmic terms convert to numeric result is nearly 0.771					mW		
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$								
ANT+ RF Exposure = ( 0.771 mW / 5 mm ) x $\sqrt{}$				2.457	GHz =	0.242	②;	
				SAR	requirement:	S =	3.0	③;

The BLE and ANT+ can be transmitted at the same time, the result is 0.272/3+0.242/3=0.171<1, so the SAR report is not required

Note: Refer to report No. GZCR230800088701 for EUT test Max Conducted Peak Output Power value.



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# 6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2308000887HS

- End of the Report -



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