

# **FCC Test Report**

Report No.: AGC01040200901FE03

FCC ID	8	2АF9HH6M
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Heart rate Sensor
BRAND NAME	:	N/A
MODEL NAME	:	Н6М, Н7М
APPLICANT	:	Shenzhen CooSpo Tech Co., Ltd
DATE OF ISSUE	© i	Sep. 14, 2020
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd



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#### Report No.: AGC01040200901FE03 Page 2 of 36

#### **REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Sep. 14, 2020	Valid	Initial Release

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# **1. VERIFICATION OF COMPLIANCE**

Shenzhen CooSpo Tech Co., Ltd			
11F, Lingyun Building, Honglang North 2nd Rd., Bao'an District, Shenzhen, Guangdong, China			
ShenZhen Fitcare Electronics Co., LTD			
6th Floor(south), Building A, Dingxin Science Park, 67 District, Bao'an, Shenzhen, China			
ShenZhen Fitcare Electronics Co., LTD			
6th Floor(south), Building A, Dingxin Science Park, 67 District, Bao'an, Shenzhen, China			
Heart rate Sensor			
N/A			
H6M			
H7M			
All the same except for the model name.			
Sep. 03, 2020 to Sep. 15, 2020			
No any deviation from the test method			
Normal			
Pass			
AGCRT-US-BLE/RF			

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By

John Zerig

John Zeng (Project Engineer)

Sep. 15, 2020

Max Zhank

Reviewed By

Max Zhang (Reviewer)

Sep. 15, 2020

Approved By

Forrest Lei (Authorized Officer)

Sep. 15, 2020

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# 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Heart rate Sensor". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2457MHz			
RF Output Power	-3.690dBm (Max)			
Modulation	GFSK			
Number of channels	1 Channel			
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)			
Antenna Gain	0dBi			
Hardware Version	V1.2			
Software Version	5.0.18			
Power Supply	DC 3V by battery			
Note: The EUT doesn't supp	port BR/EDR.			

## 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
2400~2483.5MHZ	1	2457MHZ	

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# 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for FCC ID: 2AF9HH6M filing to comply with the FCC Part 15.247 requirements.

#### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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# 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y  $\pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz,  $Uc = \pm 4.0 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted,  $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted,  $Uc = \pm 2.7 dB$
- Uncertainty of Occupied Channel Bandwidth:  $Uc = \pm 2 \%$

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# 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel TX(2457MHz)		

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

4. For battery operated equipment, the equipment tests are performed using a new battery.

5. The EUT would be sent into ANT+ transmitting test modes while it was powered on.

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# **5. SYSTEM TEST CONFIGURATION**

# 5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

EUT	AE
EUT	AE

# 5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark	
1	Heart rate Sensor	Н6М	2AF9HH6M	EUT	

#### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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# 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd				
Location 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Commun Fuhai Street, Bao'an District, Shenzhen, Guangdong, China					
Designation Number CN1259					
FCC Test Firm Registration Number	975832				
A2LA Cert. No.	5054.02				
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA				

# TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2019	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Oct. 25, 2019	Oct. 26, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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# 7. PEAK OUTPUT POWER

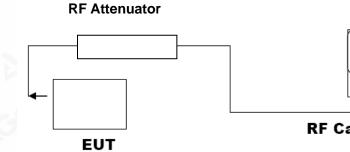
#### 7.1. MEASUREMENT PROCEDURE

For peak power test:

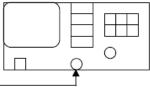
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

# 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP







**RF** Cable

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#### 7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEASUREMENT RESULT							
	FOR GFSK MOUDULATION							
Frequency (GHz)	Frequency Peak Power Applicable Limits Pass or Fail							
2.457	2.457 -3.690 30 Pass							



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# 8.6 DB BANDWIDTH

#### 8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

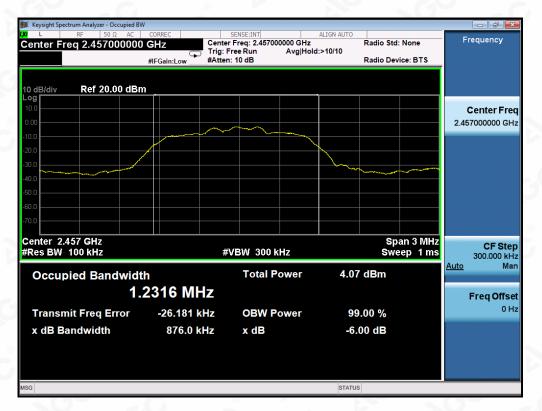
Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

#### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

#### **8.3. LIMITS AND MEASUREMENT RESULTS**

LIMITS AND MEASUREMENT RESULT							
Applicable Limits							
Applicable Limits	Test Data	a (kHz)	Criteria				
>500KHZ 2457MHz 876 PASS							



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# 9. CONDUCTED SPURIOUS EMISSION

#### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

#### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT							
	Measurement Result						
Applicable Limits	Test Data	Criteria					
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS					

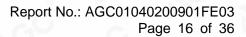
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Keysight Spectrum Analyzer - Swe	AC CORREC	SENSE:INT	ALIGN AUTO	04:55:17 PM Sep 07, 2020	
Center Freq 2.45700			Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
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			Mkr1 2	.457 010 2 GHz	Auto Tune
10 dB/div Ref 20.00 d	l B m			-3.739 dBm	
10 dB/div Ref 20.00 d	ып	The second secon			
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-50.0					Stop Freq
-60.0					2.458500000 GHz
-70.0					
Contor 2 457000 CU				Spap 2 000 MHz	05.04
Center 2.457000 GHz #Res BW 100 kHz	#VBM	/ 300 kHz	Sweep 2 (	Span 3.000 MHz 000 ms (30000 pts)	CF Step 300.000 kHz
			-		Auto Man
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6					
8					Scale Type
9					Log <u>Lin</u>
11					
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Keysight Spectrum Analyzer - Swe	ept SA				
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IX         RL         RF         50 Ω           Center Freq         1.21500           10 dB/div         Ref         20.00 d           10.0         10.0         10.0	AC CORREC 00000 GHZ PNO: Fast IFGain:Low	, Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:55:27 PM Sep 07, 2020 TRACE 2 3 4 5 6 TYPE MUNICIPAL DET P NNNNN 1 2.137 71 GHz	Frequency Auto Tune Center Freq
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IX         RL         RF         50 Ω           Center Freq 1.21500         Image: State of the state	AC CORREC 00000 GHZ PNO: Fast IFGain:Low	, Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:55:27 PM Sep 07, 2020 TRACE 12 3 4 5 6 TYPE MININA N 1 2.137 71 GHz -57.516 dBm	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq
IX         RL         RF         50 Ω           Center Freq 1.21500         Interference	AC CORREC 00000 GHZ PNO: Fast IFGain:Low	, Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:55:27 PM Sep 07, 2020 TRACE 12 3 4 5 6 TYPE MININA N 1 2.137 71 GHz -57.516 dBm	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq
IX         RL         RF         50 Ω           Center Freq 1.21500         Item for the second sec	AC CORREC 00000 GHZ PNO: Fast IFGain:Low	, Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:55:27 PM Sep 07, 2020 TRACE 12 3 4 5 6 TYPE MININA N 1 2.137 71 GHz -57.516 dBm	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq
IX         RL         RF         50 Ω           Center Freq 1.21500         Ref 20.00 d         Interview	AC CORREC 00000 GHZ PNO: Fast IFGain:Low	, Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:55:27 PM Sep 07, 2020 TRACE 12 3 4 5 6 TYPE MININA N 1 2.137 71 GHz -57.516 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq
IX         RL         RF         50 m           Center Freq 1.21500         Ref 20.00 d         Content freq 1.21500           10 dB/div         Ref 20.00 d         Content freq 1.21500           10.0         0.00         Content freq 1.21500           10.0         0.00         Content freq 1.21500           10.0         0.00         Content freq 1.21500           -10.0         Content freq 1.21500         Content freq 1.21500           -20.0         Content freq 1.21500         Content freq 1.21500           -40.0         Content freq 1.21500         Content freq 1.21500           -60.0         Content freq 1.21500         Content freq 1.21500	AC CORREC 00000 GHZ PNO: Fast IFGain:Low	, Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:55:27 PM Sep 07, 2020 TRACE 12 3 4 5 6 TYPE MININA N 1 2.137 71 GHz -57.516 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq
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IX         RL         RF         50 m           Center Freq 1.21500         Ref 20.00 d         Ref 20.00 d           10 dB/div         Ref 20.00 d         Ref 20.00 d           20 d         Ref 20.00 d         Ref 20.00 d <tr< td=""><td>AC CORREC 0000 GHZ PNO: Fast → IFGain:Low IBM</td><td>Trig: Free Run Atten: 30 dB</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr</td><td>04:55:27 PM Sep 07, 2020 TRACE 1 2 3 4 5 6 TYPE 7 NNNN 1 2.137 71 GHz -57.516 dBm 0.1 -257.4084 0.1 -257.4084 1</td><td>Frequency</td></tr<>	AC CORREC 0000 GHZ PNO: Fast → IFGain:Low IBM	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:55:27 PM Sep 07, 2020 TRACE 1 2 3 4 5 6 TYPE 7 NNNN 1 2.137 71 GHz -57.516 dBm 0.1 -257.4084 0.1 -257.4084 1	Frequency
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IM         RL         RF         50 m           Center Freq 1.21500         Ref 20.00 d         Ref 20.00 d           10 dB/div         Ref 20.00 d         Ref 20.00 d           10.0	AC CORREC 0000 GHZ PNO: Fast → IFGain:Low IBM IBM IBM IBM IBM IFGain:Low IBM IFGain:Low IBM IFGain:Low IFGAIN:AN IFGAIN IFGAIN:AN IFGAIN IFGAIN:AN IFGAIN IF	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	04:55:27 PM Sep 07, 2020 TRACE [] 2 3 4 5 6 TYPE MINIMUM 1 2.137 71 GHz -57.516 dBm 0.1 -27/1080 1	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz 237.000000 MHz Auto Man
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#### TEST RESULT FOR ENTIRE FREQUENCY RANGE

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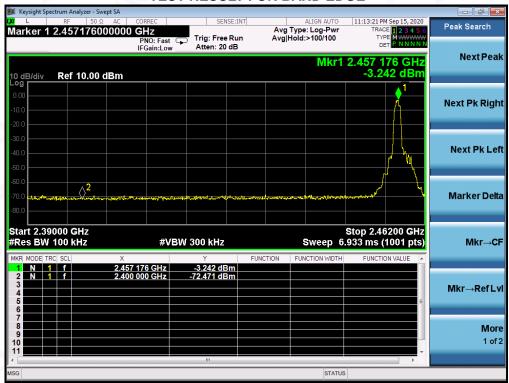


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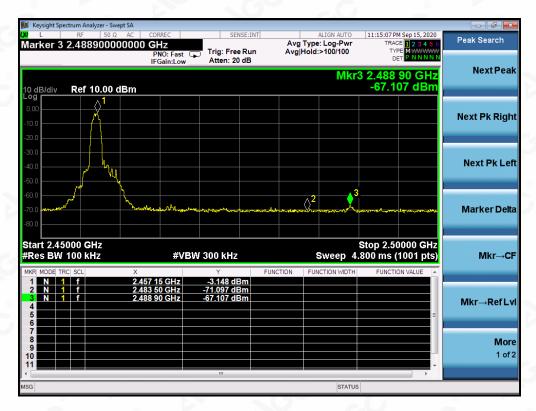
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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#### **TEST RESULT FOR BAND EDGE**



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# **10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY**

#### **10.1. MEASUREMENT PROCEDURE**

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

#### **10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)**

Refer to Section 7.2.

#### **10.3. MEASUREMENT EQUIPMENT USED**

Refer to Section 6.

#### **10.4. LIMITS AND MEASUREMENT RESULT**

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2457Mhz	-13.058	8	Pass



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# **11. RADIATED EMISSION**

#### **11.1. MEASUREMENT PROCEDURE**

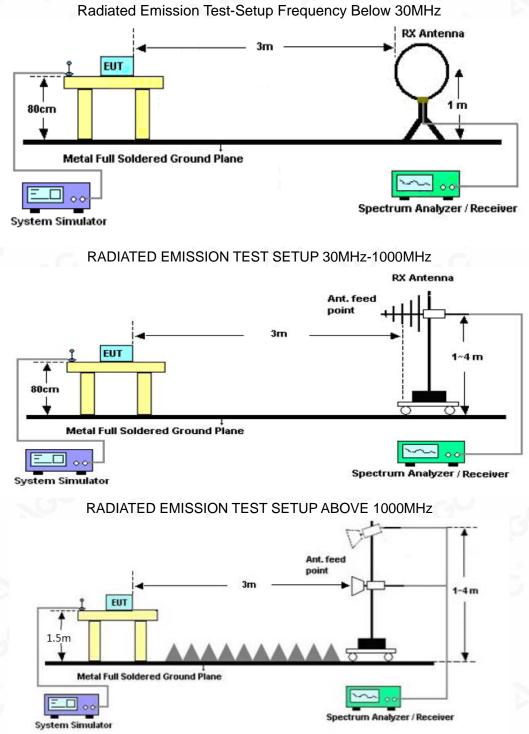
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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#### 11.2. TEST SETUP



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# **11.3. LIMITS AND MEASUREMENT RESULT**

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

# 11.4. TEST RESULT

# **RADIATED EMISSION BELOW 30MHz**

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

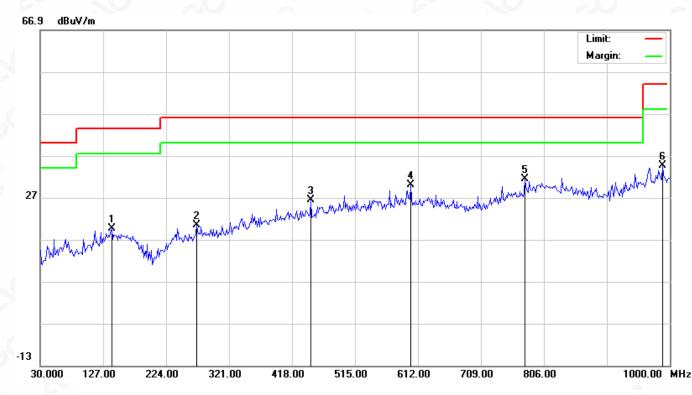
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#### **RADIATED EMISSION BELOW 1GHZ**

EUT	Heart rate Sensor	Model Name	H6M
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		139.9333	0.44	19.23	19.67	43.50	-23.83	peak
2		270.8833	1.13	19.20	20.33	46.00	-25.67	peak
3		447.1000	2.48	23.93	26.41	46.00	-19.59	peak
4		600.6833	3.14	26.94	30.08	46.00	-15.92	peak
5	*	776.9000	2.29	29.19	31.48	46.00	-14.52	peak
6		988.6833	2.63	32.01	34.64	54.00	-19.36	peak

#### **RESULT: PASS**

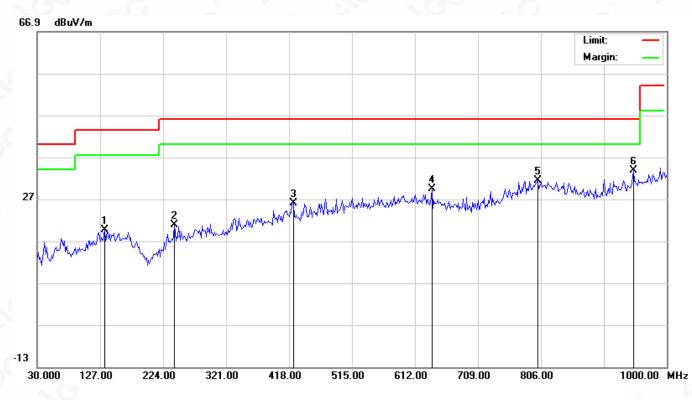
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EUT	Heart rate Sensor	Model Name	H6M
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



	Over	Limit	Measure- ment	Correct Factor	Reading Level	k. Freq.	No. M
Detector	dB	dBuV/m	dBuV/m	dB	dBuV	MHz	
peak	-23.87	43.50	19.63	18.82	0.81	133.4667	1
peak	-25.13	46.00	20.87	18.63	2.24	241.7833	2
peak	-19.94	46.00	26.06	23.47	2.59	424.4667	3
peak	-16.51	46.00	29.49	26.27	3.22	637.8667	4
peak	-14.55	46.00	31.45	30.38	1.07	801.1500	5
peak	-12.18	46.00	33.82	30.05	3.77	948.2667	6 *

### **RESULT: PASS** Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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EUT	Heart rate Sensor	Model Name	Н6М
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

#### **RADIATED EMISSION ABOVE 1GHZ**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4914.000	42.36	0.08	42.44	74	-31.56	peak
4914.000	35.71	0.08	35.79	54	-18.21	AVG
7371.000	40.68	2.21	42.89	74	-31.11	peak
7371.000	33.57	2.21	35.78	54	-18.22	AVG
		8		- CC	©	8
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actor = Anter	nna Factor + Cab	le Loss – Pre-	amplifier.			

	8		8
EUT	Heart rate Sensor	Model Name	H6M
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4914.000	42.95	0.08	43.03	74	-30.97	peak
4914.000	34.76	0.08	34.84	54 💿	-19.16	AVG
7371.000	38.24	2.21	40.45	74	-33.55	peak
7371.000	30.63	2.21	32.84	54	-21.16	AVG
		-00-				6
emark:					0	

## **RESULT: PASS**

#### Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit. The "Factor" value can be calculated automatically by software of measurement system.

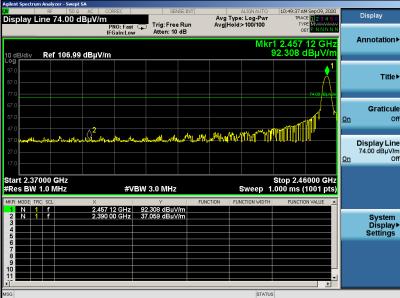
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "bedicated restron/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphorization of AGS". The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



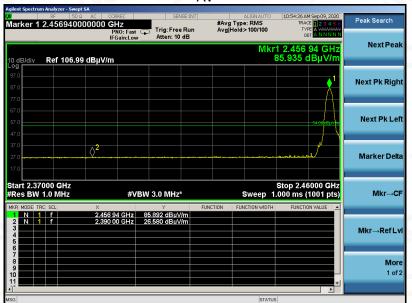
EUT	Heart rate Sensor	Model Name	Н6М
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

#### TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



**RESULT: PASS** 

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EUT	Heart rate Sensor	Model Name	H6M
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
		DI/	



AV Peak Search 1 2.457120000000 GHz Avg Type: Log-Pwi Avg|Hold:>100/100 nst 🕞 Trig: Free Rur Nw Atten: 10 dB PNO: Fa Next Peal Mkr1 2.45 Ref 106.99 dBµV/m Next Pk Righ Next Pk Lef ∆<sup>2</sup> ertera Ministra M Marker Delt Stop 2.46000 GHz 1.000 ms (1001 pts) tart 2.37000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Mkr→Cl Sweep 2.457 12 GHz 90.220 dBµV/m 2.390 00 GHz 37.802 dBµV/m Mkr→RefLv More 1 of 2

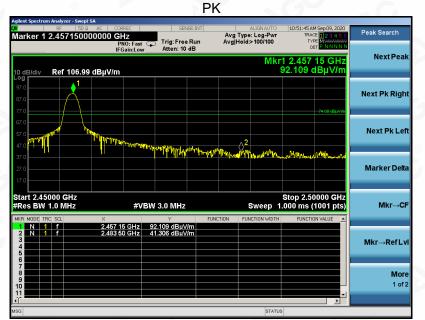
**RESULT: PASS** 

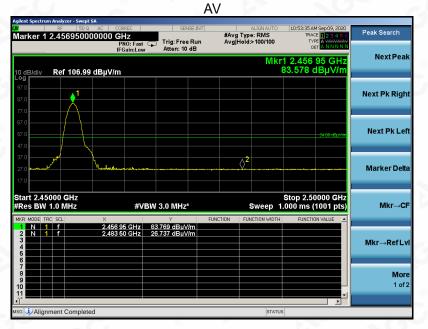
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#### Report No.: AGC01040200901FE03 Page 27 of 36

EUT	Heart rate Sensor	Model Name	H6M
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal





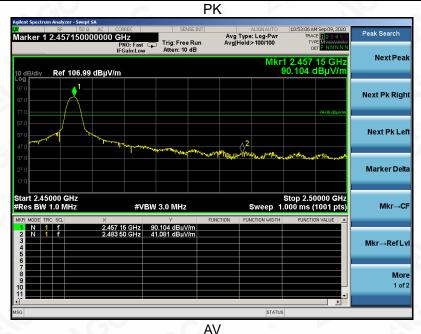
**RESULT: PASS** 

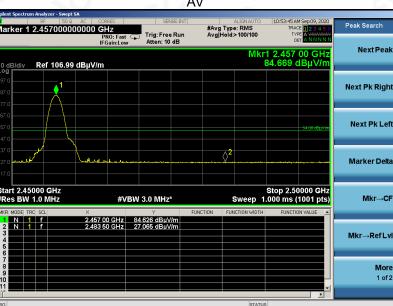
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#### Report No.: AGC01040200901FE03 Page 28 of 36

EUT	Heart rate Sensor	Model Name	Н6М
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical





# **RESULT: PASS Note**: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



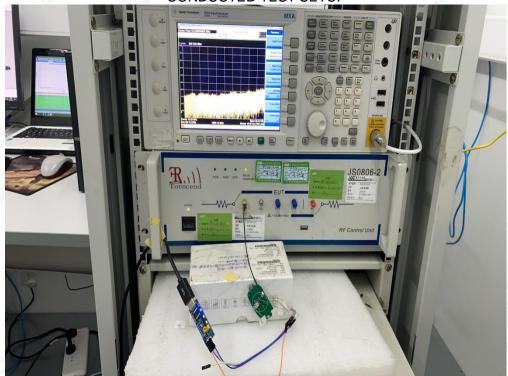
RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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# CONDUCTED TEST SETUP

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# WHOLE VIEW OF EUT TOP VIEW OF EUT

**APPENDIX B: PHOTOGRAPHS OF EUT** 

Compliancest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "bedicated Past Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. g/Inspection The test results 3f the test report.



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BOTTOM VIEW OF EUT 

#### FRONT VIEW OF EUT



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BACK VIEW OF EUT



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#### **RIGHT VIEW OF EUT**



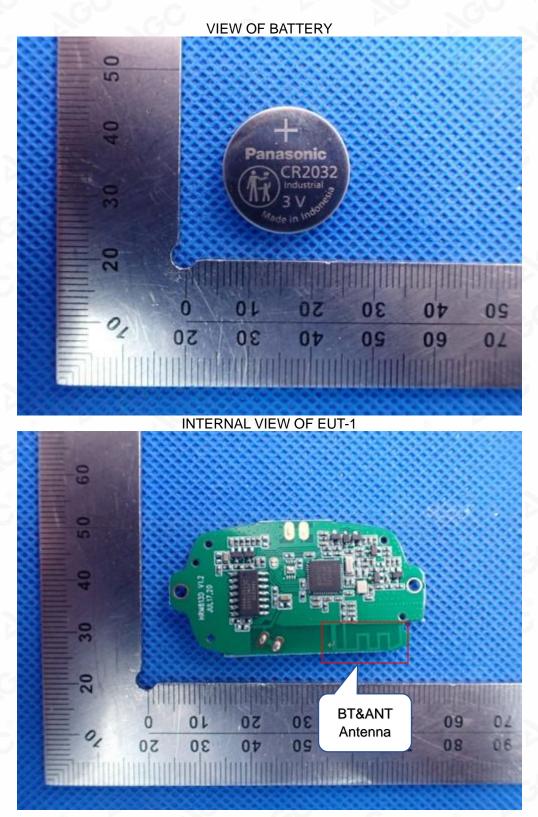
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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





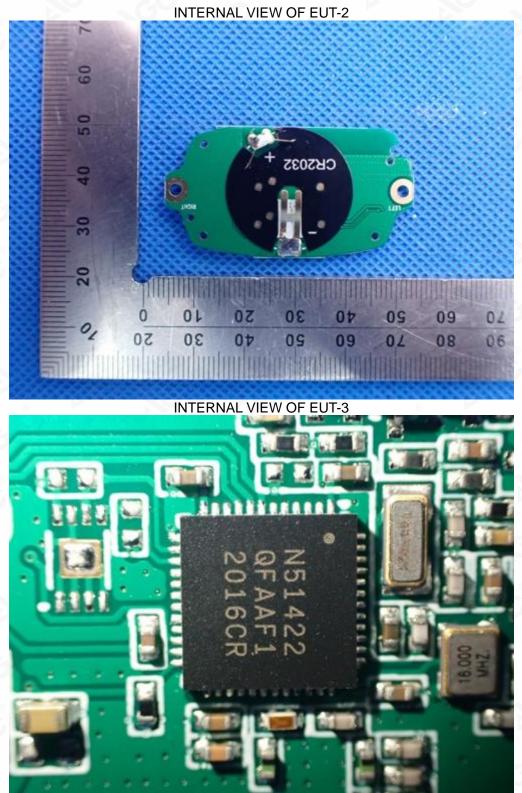
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 Attestation of Global Compliance(Shenzhen)Co., Ltd

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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





# ----END OF REPORT----

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#### Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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