

FCC Test Report

Report No.: AGC01040210605FE02

FCC ID : 2AF9HHRM802

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Heart rate Monitor

BRAND NAME : N/A

HRM802, H808S, HRM808S, H6M, H6, HRM806,

MODEL NAME : HRM806M, H8M, H8, HRM801, HR6, HR7, HR8, H828,

H818

APPLICANT: Shenzhen CooSpo Tech Co., Ltd.

DATE OF ISSUE : Jun. 25, 2021

STANDARD(S) : FCC Part 15.247

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 25, 2021	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 CooSpo Tech Co., Ltd.		
Guangdong, China Shenzhen CooSpo Tech Co., Ltd.		
11F, Lingyun Building, Honglang North 2nd Rd., Bao'an District, Shenzhen, Guangdong, China		
Shenzhen CooSpo Tech Co., Ltd.		
11F, Lingyun Building, Honglang North 2nd Rd., Bao'an District, Shenzhen, Guangdong, China		
Heart rate Monitor		
N/A		
HRM802		
H808S, HRM808S, H6M, H6, HRM806, HRM806M, H8M, H8, HRM801, HR6, HR7, HR8, H828, H818		
All the same except for the model name and color.		
Jun. 11, 2021 to Jun. 25, 2021		
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	Then Huong	
AGC AG	Thea Huang Project Engineer	Jun. 25, 2021
Reviewed By	Max Zhang	SGC SG
-C	Max Zhang Reviewer	Jun. 25, 2021
Approved By	Towastes	
	Forrest Lei Authorized Officer	Jun. 25, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Heart rate Monitor". 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

(8)		
Operation Frequency	2.402 GHz to 2.480GHz	
RF Output Power 0.353dBm (Max)		
Bluetooth Version	V5.0	
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps	
Number of channels	40 channels	
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	0dBi	
Hardware Version	1.1	
Software Version	1.1	
Power Supply	DC 3V by battery	

Note: The EUT doesn't support BR&EDR.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
100 c	® 0	2402 MHz
	GO d	2404 MHz
2400~2483.5MHz	10.	9 1 10
	38	2478 MHz
	39	2480 MHz

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

This submittal(s) (test report) is intended for **FCC ID: 2AF9HHRM802** 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 ±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%.

Item	Measurement Uncertainty	
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$	
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$	
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$	
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$	
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$	
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$	
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$	

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he test results

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
1	Low channel TX	
2	Middle channel TX	
3	High channel TX	

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.



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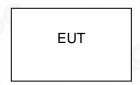


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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

EUT	AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Heart rate Monitor	HRM802	2AF9HHRM802	EUT
2	Control Box	USB-TTL	N/A	AE

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 EUT is powered by battery.

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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 Community, 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 15,2021	May 14,2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	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	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

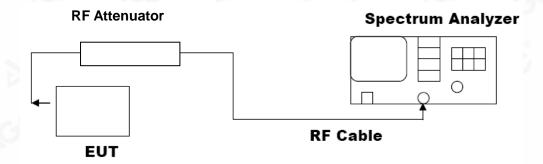
7.1. MEASUREMENT PROCEDURE

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



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g/Inspection he test results the test report.

7.3. LIMITS AND MEASUREMENT RESULT

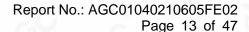
	Test Data of Conducted Output Power						
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail			
10	2402	0.353	≤30	Pass			
GFSK 1M	2440	0.019	≤30	Pass			
	2480	0.026	≤30	Pass			

Test Graphs of Conducted Output Power Avg Type: Log-Pwr Avg|Hold: 100/100 **Auto Tune** 0.353 dBm Ref 20.00 dBm Center Freq 2.402000000 GHz **4**1 Start Freq 2.399500000 GHz Stop Freq 2.404500000 GHz CF Step 500.000 kHz Freq Offset Scale Type Center 2.402000 GHz #Res BW 1.5 MHz Span 5.000 MHz Sweep 1.066 ms (1000 pts)

Test_Graph_LE1M_ANT1_2402_1Mbps_Peak Power

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#VBW 5.0 MHz









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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

- 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.

Occupied bandwidth:

- 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 Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel
 The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
 bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 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.

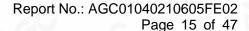
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

	Test Data of Occupied Bandwidth and DTS Bandwidth						
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail		
- 60	2402	1.040	0.691	≥0.5	Pass		
GFSK 1M	2440	1.042	0.691	≥0.5	Pass		
0	2480	1.042	0.691	≥0.5	Pass		

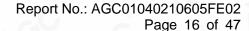
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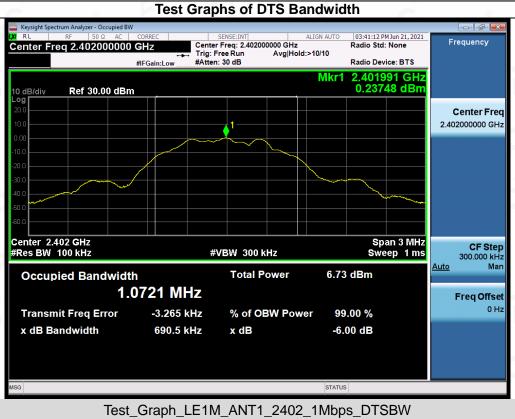
Test Graphs of Occupied Bandwidth Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency Center Freg 2.402000000 GHz Avg|Hold: 10/10 Radio Device: BTS #IFGain:Low Ref 30.00 dBm Center Freq 2.402000000 GHz Center 2.402 GHz #Res BW 30 kHz Span 3 MHz Sweep 4.133 ms **CF Step #VBW** 100 kHz 300.000 kHz Auto 5.61 dBm **Occupied Bandwidth Total Power** 1.0397 MHz Freq Offset 2.140 kHz % of OBW Power 99.00 % **Transmit Freq Error** -26.00 dB x dB Bandwidth 1.230 MHz x dB Test_Graph_LE1M_ANT1_2402_1Mbps_OBW Center Freq: 2.440000000 GHz Trig: Free Run Avg|Hold:>10/10 Frequency #IFGain:Low Radio Device: BTS Ref 30.00 dBm Center Freq 2.440000000 GHz Span 3 MHz Sweep 4.133 ms Center 2.44 GHz #Res BW 30 kHz **CF Step** #VBW 100 kHz 300.000 kHz <u>Auto</u> 5.21 dBm **Total Power Occupied Bandwidth** 1.0420 MHz Freq Offset **Transmit Freq Error** 1.909 kHz % of OBW Power 99.00 % 1.230 MHz -26.00 dB x dB Bandwidth x dB Test_Graph_LE1M_ANT1_2440_1Mbps_OBW

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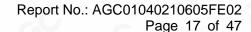








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9. CONDUCTED SPURIOUS EMISSION

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.

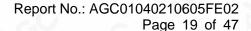
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
A contract to 1 to 25	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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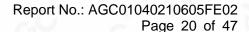
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



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Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Emissions

#VBW 300 kHz

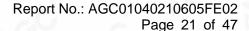




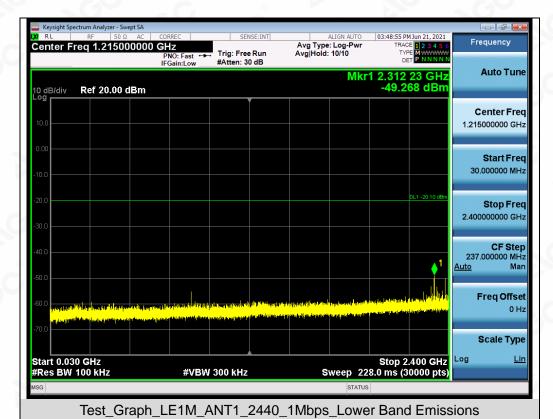




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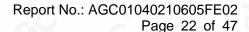






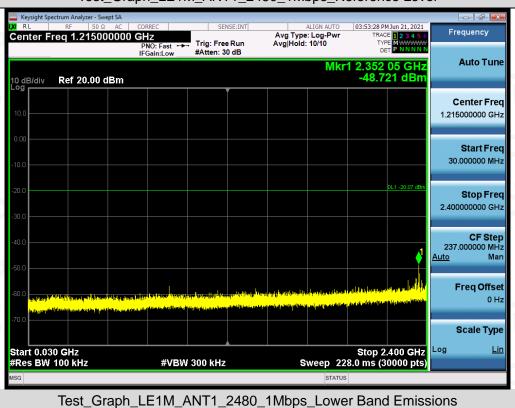


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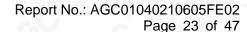




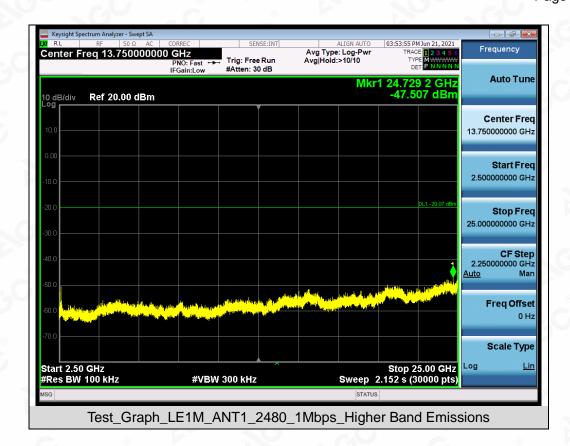




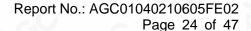
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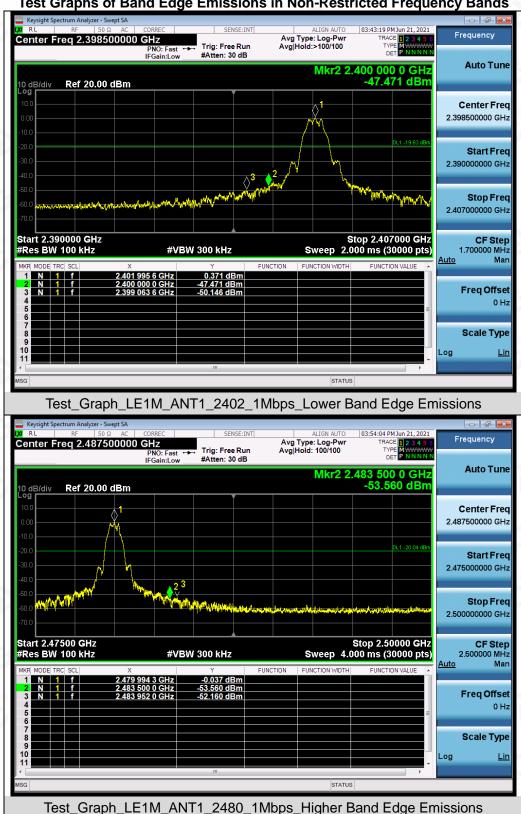


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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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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 8.4 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.

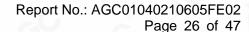
10.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density					
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail	
	2402	-17.733	≤8	Pass	
GFSK 1M	2440	-18.105	≪8	Pass	
	2480	-17.934	≪8	Pass	

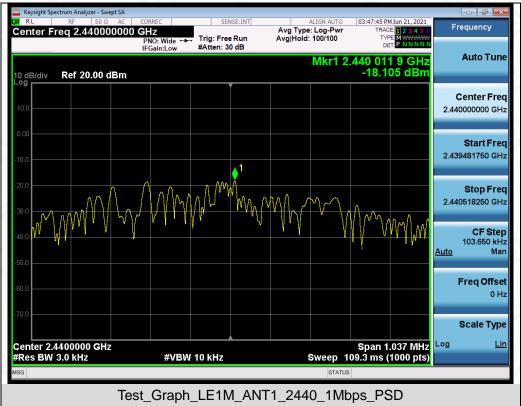
Test Graphs of Conducted Output Power Spectral Density



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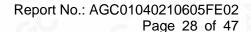
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11. RADIATED EMISSION

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.
- 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.

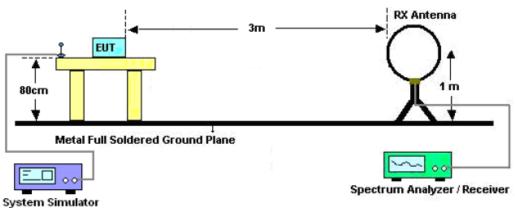
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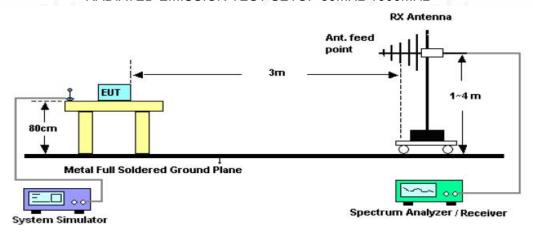


11.2. TEST SETUP

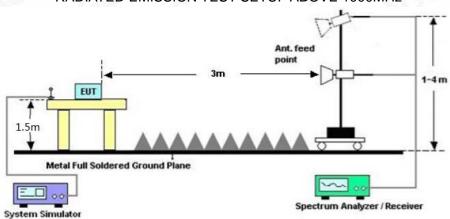
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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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.

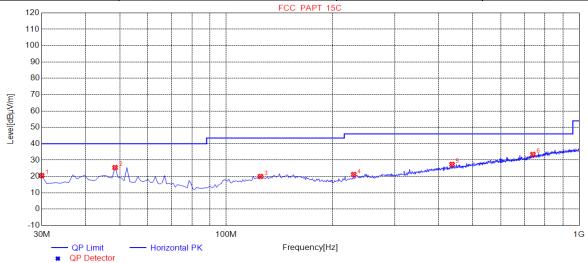
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Radiated emission from 30MHz to 1000MHz

EUT	Heart rate Monitor	Model Name	HRM802
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.0000	20.53	9.85	40.00	19.47	100	3	Horizontal
2	48.4300	25.43	11.71	40.00	14.57	100	52	Horizontal
3	125.0600	20.00	13.81	43.50	23.50	100	120	Horizontal
4	229.8200	21.21	14.02	46.00	24.79	100	122	Horizontal
5	436.4300	27.38	20.67	46.00	18.62	100	1	Horizontal
6	740.0400	33.47	26.97	46.00	12.53	100	320	Horizontal

RESULT: PASS

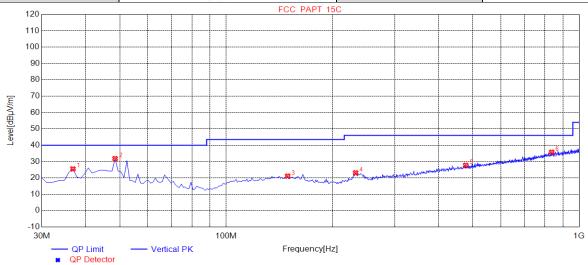
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/Inspection The test results

EUT	Heart rate Monitor	Model Name	HRM802
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7900	25.51	11.16	40.00	14.49	100	2	Vertical
2	48.4300	31.84	11.71	40.00	8.16	100	22	Vertical
3	149.3100	21.16	14.88	43.50	22.34	100	336	Vertical
4	232.7300	23.15	14.25	46.00	22.85	100	170	Vertical
5	477.1700	27.72	21.62	46.00	18.28	100	232	Vertical
6	836.0700	35.75	29.06	46.00	10.25	100	56	Vertical

RESULT: PASS Note:

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

2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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Radiated emission above 1GHz

EUT	Heart rate Monitor	Model Name	HRM802
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4804.000	43.82	0.08	43.9	74	-30.1	peak	
4804.000	35.63	0.08	35.71	54	-18.29	AVG	
7206.000	38.54	2.21	40.75	74	-33.25	peak	
7206.000	31.27	2.21	33.48	54	-20.52	AVG	
		®		.60		(8)	
			8			- 6	

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT	Heart rate Monitor	Model Name	HRM802
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	44.69	0.08	44.77	74	-29.23	peak
4804.000	34.53	0.08	34.61	54 🔍	-19.39	AVG
7206.000	38.41	2.21	40.62	74	-33.38	peak
7206.000	30.18	2.21 ®	32.39	54	-21.61	AVG
		C	®			
(0)				®		

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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EUT	Heart rate Monitor	Model Name	HRM802
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	44.96	0.14	45.1	74	-28.9	peak
4880.000	35.86	0.14	36	54	-18	AVG
7320.000	39.65	2.36	42.01	74	-31.99	peak
7320.000	31.73	2.36	34.09	54	-19.91	AVG
		(6)				8
emark:			8			- C

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT	Heart rate Monitor	Model Name	HRM802
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin 🌕	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	45.94	0.14	46.08	74	-27.92	peak
4880.000	38.65	0.14	38.79	54	-15.21	AVG
7320.000	40.35	2.36	42.71	74	-31.29	peak
7320.000	32.52	2.36	34.88	54	-19.12	AVG
		-6	(8)			
				®		

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Heart rate Monitor	Model Name	HRM802
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	44.74	0.22	44.96	74	-29.04	peak
4960.000	35.56	0.22	35.78	54	-18.22	AVG
7440.000	38.32	2.64	40.96	74	-33.04	peak
7440.000	29.29	2.64	31.93	54	-22.07	AVG
					(a)	

EUT	Heart rate Monitor	Model Name	HRM802
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	42.66	0.22	42.88	74	-31.12	peak
4960.000	34.35	0.22	34.57	54	-19.43	AVG
7440.000	38.48	2.64	41.12	74 🔍	-32.88	peak
7440.000	29.23	2.64	31.87	54	-22.13	AVG
_ < C	Y _ C	®			20	
			8			
emark:			- C	®		
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.	.(0)	8	

RESULT: PASS

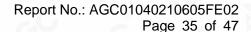
Note:

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, Margin=Level-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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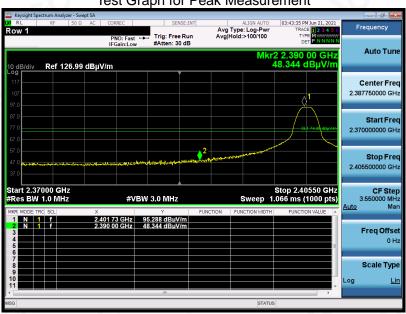




Test result for band edge emission at restricted bands

EUT	Heart rate Monitor	Model Name	HRM802
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Test Graph for Peak Measurement

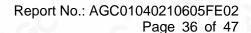


Test Graph for Average Measurement



RESULT: PASS

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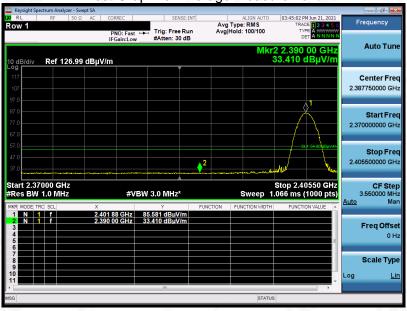


HRM802 **EUT** Heart rate Monitor **Model Name** 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 1 **Antenna** Vertical

Test Graph for Peak Measurement

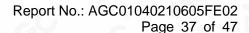






RESULT: PASS

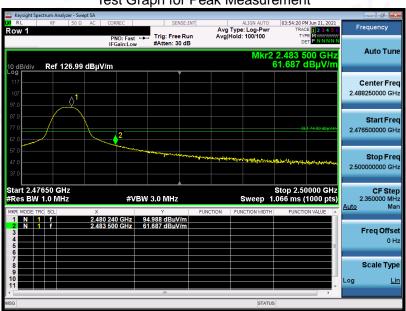
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HRM802 **EUT** Heart rate Monitor **Model Name** 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 3 **Antenna** Horizontal

Test Graph for Peak Measurement

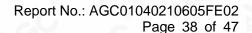






RESULT: PASS

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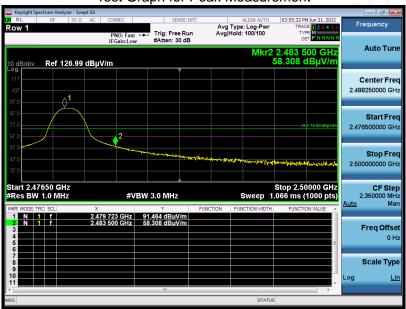
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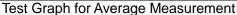
The test results



EUT HRM802 Heart rate Monitor **Model Name** 25° C **Temperature Relative Humidity** 55.4% 960hPa **Pressure Test Voltage** Normal Voltage **Test Mode** Mode 3 **Antenna** Vertical

Test Graph for Peak Measurement







RESULT: PASS

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

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