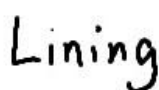


RF Test Report

Test Report Number	HME-26020362-LC-FCC-Part96-R1
FCC ID IC Applicant Applicant Address Product Name Model Number Date of Receipt Date of Test Report Issue Date Test Standards Test Result	BYMBP5GC1 1860A-BP5GC1 HM Electronics Inc 2848 Whiptail Loop, Carlsbad, CA 92010 USA Wireless Beltpack BP5GC1 02/03/2026 02/03/2026 – 03/02/2026 05/20/2026 47CFR Part 96.47 PASS
	Issued by: Vista Compliance Laboratories 1261 Puerta Del Sol, San Clemente, CA 92673 USA www.vista-compliance.com
 Lining Li (Test Engineer)	 Jerry Bai (Technical Manager)

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REVISION HISTORY

Report Number	Version	Description	Issued Date
HME-26020362-LC-FCC-Part96	01	Initial report	04/13/2026
HME-26020362-LC-FCC-Part96-R1		Add 5G NR n25/n71 Bands	05/20/2026

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1 Test Summary

Test Item	FCC Rules	Test Method	Result
End User Device additional requirement	FCC Part 96.47	940660 D01 Part 96 CBRS Eqpt v03r01 WINNF-TS-0122-v1.0.2 CBRS Test Specification	Pass

2 General Information

2.1 Applicant

Applicant	HM Electronics Inc
Applicant address	2848 Whiptail Loop, Carlsbad, CA 92010 USA
Manufacturer	HM Electronics Inc
Manufacturer Address	2848 Whiptail Loop, Carlsbad, CA 92010 USA

2.2 Product information

Product Name	Wireless Beltpack
Model Number	BP5GC1
Family Model Number	N/A
Serial Number	1048977 (Radiated unit) 1048978 (RF conducted unit)
Frequency Band	Bluetooth BDR/EDR/BLE: 2402-2480MHz LTE Band 2: UL: 1850-1910MHz; DL: 1930-1990MHz LTE Band 4: UL:1710-1755MHz; DL: 2110-2155MHz LTE Band 5: UL:824-849MHz; DL: 869-894MHz LTE Band 12: UL:699-716MHz; DL: 729-746MHz LTE Band 13: UL:777-787MHz; DL:746-756MHz LTE Band 25: UL:1850-1915MHz; DL:1930-1995MHz LTE Band 48: 3550-3700MHz LTE Band 66: UL:1710-1780MHz; DL: 2110-2200MHz LTE Band 71: UL:663-698MHz; DL: 617-652MHz 5G NR n2: UL: 1850-1910MHz; DL: 1930-1990MHz 5G NR n5: UL:824-849MHz; DL: 869-894MHz 5G NR n25: UL:1850-1915MHz; DL:1930-1995MHz 5G NR n48: 3550-3700MHz 5G NR n66: 1710-1780MHz; DL: 2110-2200MHz 5G NR n71: UL:663-698MHz; DL: 617-652MHz 5G NR n77-L: UL:3450-3550MHz; DL: 3450-3550MHz 5G NR n77-H: UL:3700-3980MHz; DL: 3700-3980MHz
Type of modulation	Bluetooth BDR/EDR: GFSK, $\pi/4$ DQPSK, 8DPSK Bluetooth BLE: GFSK LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-Pi/2-BPSK, DFT-s-QPSK, DFT-s-16QAM, DFT-s-64QAM, DFT-s-256QAM, CP-QPSK, CP-16QAM, CP-64QAM, CP-256QAM
Equipment Class	DSS, DTS, PCT, CBE

Antenna Information	Bluetooth: Integral PCB/Printed Inverted-F quarter wave antenna, 1.5 dBi peak gain				
	Cellular: Two integrated antennas but only one is used for tranmission purpose.				
	Antenna type	Antenna	Antenna Name	Band (GHz)	Peak Gain (dBi)
	Cellular antenna	1 (main TX)	FTLTEF129-LU	0.745	-0.26
				0.787	0.29
				0.821	0.31
				0.898	-1.49
				1.714	3.74
				1.884	5.49
				1.994	5.92
				2.156	4.22
				3.303	3.33
				3.601	3.48
3.898	3.94				
Clock Frequencies	N/A				
Port/Connectors	N/A				
Input Power	Detachable/Rechargeable Li-ion battery, 3.7VDC				
Power Adapter Manu/Model	N/A				
Power Adapter SN	N/A				
Hardware version	N/A				
Software version	N/A				
Simultaneous Transmission	BLE and Cellular can transmit simultaneously				
Additional Info	1. FreeSpeak Cell Beltpack is a battery powered wireless communication intercom “Beltpack” operating across 4G LTE and 5G Cellular Frequency Bands. The FreeSpeak Cell Beltpack will operate in conjunction with private and commercial cellular networks along with audio distribution systems (bases) that include the Arcadia and EHX products. The FreeSpeak Cell beltpack sends and receives audio over IP from/to the beltpack to/from the Central Station (i.e. Eclipse HX Frame or Arcadia Base Station) over a cell network. The Central Station can distribute the audio locally or all over the world. With many Free Speak Cell beltpacks in combination, along with a combination of other ClearCom products, hundreds of users can communicate with each other to accomplish whatever they need to do. 2. EUT integrates FCC certified cellular 4G LTE/5G NR module, Model: RG255C-GL from Quectel Wireless Solutions (FCC ID: XMR2024RG255CGL, ISED ID: 10224A-024RG255CGL) , Bands supported : 4G LTE B2, B4, B5, B12, B13, B48, B66; 5G NR n2, n5, n25, n48, n66, n71, n77. 3. EUT is not sold with a dedicated power charger. For testing purpose, an Apple USB charger is used as supporting equipment for power line conducted emission testing. 4. The Field Strength of Radiated Spurious Emissions were measured when co-located with Bluetooth radio.				

2.3 Test standard and method

Test standard	47CFR Part 96.47
Test method	940660 D01 Part 96 CBRS Eqpt v03r01 WINNF-TS-0122-v1.0.2 CBRS Test Specification

3 Test Site Information

Lab performing tests	Vista Laboratories, Inc.
Lab Address	1261 Puerta Del Sol, San Clemente, CA 92673 USA
Phone Number	+1 (949) 393-1123
Website	www.vista-compliance.com

Test Condition	Temperature	Humidity	Atmospheric Pressure
RF Testing	23.5°C	51.5%	1005 mbar
Radiated Emission Testing	23.5°C	51.5%	1005 mbar

4 Modification of EUT / Deviations from Standards

N/A

5 Test Configuration and Operation

5.1 EUT Test Configuration

EUT is connected to a companion device during testing.

5.2 Supporting Equipment

Description	Manufacturer	Model #	Serial #	Remark
Laptop	Dell	Latitude E6440	FFF4JC2	Send command
Headphone	Clear-Com	CC-300	N/A	N/A
Apple USB charger	Apple	A1385	N/A	Apple USB charger

6 Test Results

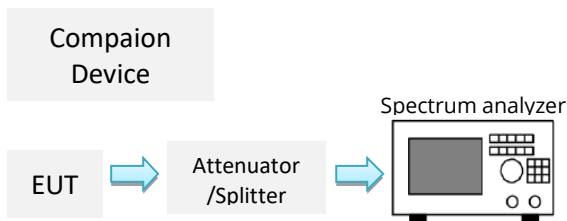
6.1 End User Device additional requirement

6.1.1 Requirement

FCC Part 96.47

- (a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- (1) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

6.1.2 Test setup

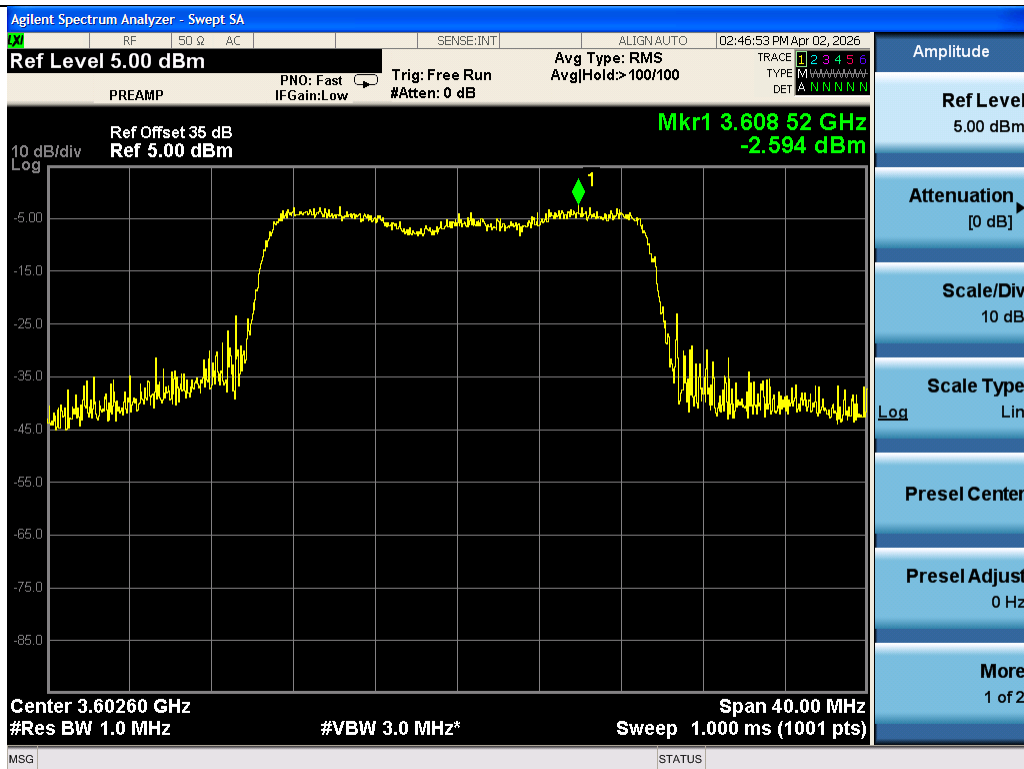


6.1.3 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified BLiNQ FW-300i CBSD (FCC ID: ROR00000005) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

1. Setup with frequency 3600-3620MHz and power level 7dBm/MHz
2. Enable AP service from Ruckus Cloud management
3. Check EUD Tx Frequency and power
4. Disable AP service from Ruckus Cloud management and check EUD stops transmission within 100seconds.
5. Setup with 3670-3690MHz & power level 17dBm/MHz
6. Enable AP service from Ruckus Cloud management
7. Check EUD Tx Frequency and power
8. Disable AP service from and check EUD stops transmission within 10seconds.

6.1.4 Test Result



EUT TX frequency and power



EUT stops transmission within 10 seconds

7 Test Instrument List

Equipment	Manufacturer	Model	Instrument Number	Cal. Date	Cal. Due
Semi-Anechoic Chamber	ETS-Lindgren	10M	VL001	05/24/2024	05/24/2027
Spectrum Analyzer	Keysight	N9020A	MY50110074	05/15/2024	05/15/2026
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL052	N/A1)	N/A1)
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL053	N/A1)	N/A1)
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL054	N/A1)	N/A1)
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL055	N/A1)	N/A1)
Wideband Communication	Anritsu	MT8000a	6262261939	06/22/2024	06/22/2026

Note:

1) This equipment is not for measurement purpose and only require functional verification. Calibration is not required.

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