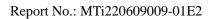


Test Report

Report No.:	MTi220609009-01E2
Date of issue:	2022-08-02
Applicant:	Voice Comm, LLC
Product:	Magnetic Wireless Charging Power Bank
Model(s):	MCBAT-5K257464, MCBAT-BK-5K257558, 257464, LC22, LC22C
FCC ID:	2A3XF-MCBAT-5K

Shenzhen Microtest Co., Ltd. http://www.mtitest.com





Instructions

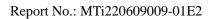
1. This test report shall not be partially reproduced without the written consent of the laboratory.

2. The test results in this test report are only responsible for the samples submitted

3. This test report is invalid without the seal and signature of the laboratory.

4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.

Any objection to this test report shall be submitted to the laboratory within
15 days from the date of receipt of the report.





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	4.2 Test setup 4.3 Test Procedures	

Test Result Certification						
Applicant:	Voice Comm, LLC					
Address:	80 Twinbridge Dr. Pennsauken Township, New Jersey, 08110 United States.					
Manufacturer:	Ventev Mobility					
Address:	600 Washington Ave, Towson, MD 21204					
Factory:	Shenzhen Powerqi Technology Co., Ltd					
Address:	Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and Technology Park, No. 13 of Baonan Road, Longgang Community, Longgang Street, Longgang District, Shenzhen City, China					
Factory:	SEOSIN ELECTRONICS VINA CO., LTD					
Address:	Chau Son Industrial Park, Le Chan Road, Le Hong Phong Ward, Phu Ly City, Ha Nam Province, Viet Nam					
Product description						
Product name:	Magnetic Wireless Charging Power Bank					
Trademark:	Ventev					
Model name:	MCBAT-5K257464					
Serial Model:	MCBAT-BK-5K257558, 257464, LC22, LC22C					
Standards:	FCC CFR 47 PART 1, § 1.1310					
Test method:	KDB 680106 v03r01					
Date of Test	·					
Date of test:	2022-06-23 ~ 2022-07-12					
Test result:	Pass					

Test Engineer :

Yanice Xie

(Yanice Xie)

Reviewed By: :

loor chen

(Leon Chen)

Approved By: :

Tom Kue

(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	Magnetic Wireless Charging Power Bank		
Model name: MCBAT-5K257464			
Series Model: MCBAT-BK-5K257558, 257464, LC22, LC22C			
Model difference:	All the models are the same circuit and module, except the model name.		
Input: DC 5V/3A, 9V/2A, 12V/1.5A Output:Electrical rating:Wireless Output: 5W/7.5W USB-C Output: DC 5V/3A, 9V/2A, 12V/1.5A Battery: DC 3.7V 5000mAh 18.5Wh			
Accessories:	1. Cable: USB-C to USB-C cable 1m		
Hardware version:	PQ-LC22-L15-V12		
Software version:	V3.64 646F.hex		
RF specification:			
Operation frequency:	115 kHz – 205 kHz		
Modulation type:	ASK		
Antenna type:	Coil Antenna		

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes			
Mode 1	Wireless Output(5W)			
Mode 2	Wireless Output(7.5W)			
Mode 3	Stand-by			
The test data only show worst test mode: Mode 2				





1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list							
Description	Model	Serial No.	Manufacturer				
Mobile phone	IPHONE 12	/	APPLE				
Adapter HW-090200CH0		/	Huizhou BYD Electronics Co., Ltd.				
Support cable list							
Description Length (m) From To							
/	/	/	/				



2 Test facilities and accreditations

2.1 Test laboratory

Test laboratory: Shenzhen Microtest Co., Ltd.			
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China		
Telephone:	(86-755)88850135		
Fax:	(86-755)88850136		
CNAS Registration No.:	CNAS L5868		
FCC Registration No.:	448573		



3 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E115	Electric and Magnetic Field Probe – Analyzer		EHP-200A	101166	2022/05/05	2023/05/04



4 Test result

4.1.1 Requirement

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)				
(i) Limits for Occupational/Controlled Exposure								
0.3-3.0	614	1.63	*(100)	≤6				
3.0-30	1842/f	4.89/f	*(900/f ²)	<6				
30-300	61.4	0.163	1.0	<6				
300-1500			f/300	<6				
1500-100000			5	<6				
	(ii) Limits for Genera	al Population/Uncontrolled I	Exposure					
0.3-1.34	614	1.63	*(100)	<30				
1.34-30	824/f	2.19/f	*(180/f²)	<30				
30-300	27.5	0.073	0.2	<30				
300-1500			f/1500	<30				
1500-100000			1.0	<30				

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

f = frequency in MHz

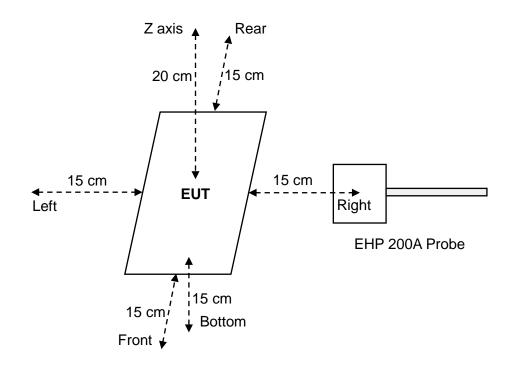
* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



4.2 Test setup



4.3 Test Procedures

a. The RF exposure test was performed in anechoic chamber.

b. E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

c. The highest emission level was recorded and compared with limit.

d. The EUT was measured according to the dictates of KDB 680106 v03r01.



4.4 Equipment Approval Considerations item 5 b) of KDB 680106 D01 v03r01

Requirement	Device
1. Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: 115 kHz – 205 kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power is: 7.5W
3. The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	Yes. The EUT has one source primary coil.
4. Client device is placed directly in contact with the transmitter.	Yes. The client device is placed directly in contact with the transmitter.
5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes. Mobile exposure conditions only.
6. The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	Yes. See the test result in item 4.5.



4.5 Test results

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Test condition 1: Mode 2 operating mode with client device (1 % battery status of client device)

	Probe	E –field (V/m)			H–field (A/m)		
Antenna	Position Measurement		Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
	Z axis	1.0499		614 0.17%	0.0501	1.63	3.15%
	Left	0.4005	614		0.0501		
	Right	0.3701			0.0513		
1	Front	0.3894			0.0482		
	Rear	0.3539			0.0495		
	Bottom	0.4425			0.0482		

Test condition 2: Mode 2 operating mode with client device (50 % battery status of client device)

Antenna	Probe	E –field (V/m)		H–field (A/m)					
Antenna	Position Measurement		Limit	Percentage (%)	Measurement	Limit	Percentage (%)		
	Z axis	1.0643		0.17%	0.0451	- 1.63	3.43%		
	Left	0.3908	614		0.0507				
1	Right	0.3751			0.0559				
	Front	0.3699			0.0431				
	Rear	0.3399						0.0464	
	bottom	0.4450			0.0515				

Test condition 3: Mode 2 operating mode with client device (99 % battery status of client device)

Antenna	Probe Position	E –field (V/m)			H–field (A/m)		
		Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
1	Z axis	1.0420	614	0.17%	0.0438	1.63	2.87%
	Left	0.3822			0.0445		
	Right	0.3592			0.0467		
	Front	0.3731			0.0427		
	Rear	0.3371			0.0427		
	bottom	0.4412			0.0404		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----