

Test Report

Report No.: MTi221110006-11E2

Date of issue: 2022-11-22

Applicant: LEXON

Product: SOFTPOWER MAGBANK

Model(s): LL153

FCC ID: 2ARD3-LL153

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



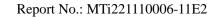
Instructions

- 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.
- 5. 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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Test Result Certification			
Applicant:	LEXON		
Address:	125 avenue des Champs-Élysées 75008 Paris FRANCE		
Manufacturer:	LEXON		
Address:	125 avenue des Champs-Élysées 75008 Paris FRANCE		
Product description			
Product name:	SOFTPOWER MAGBANK		
Trademark:	LEXON		
Model name:	LL153		
Series Model:	N/A		
Standards:	FCC CFR 47 PART 1, § 1.1310		
Test method:	KDB 680106 v03r01		
Date of Test			
Date of test:	2022-11-14 ~ 2022-11-22		
Test result:	Pass		

Test Engineer	:	Jowid. Cel
		(David Lee)
Reviewed By:	:	leon chen
		(Leon Chen)
Approved By:	:	Tom Xue
		(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	SOFTPOWER MAGBANK
Model name:	LL153
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input: Type-C: DC 5V/2.4A Output: Type-C: DC 5V/2.4A Wireless Output: 5W Battery: DC 3.7V 3000mAh 11.1Wh
Accessories:	Cable: USB-A to USB-C cable(50cm)
Hardware version:	V5.0
Software version:	V1.0
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	Stand-by	
The test data only show worst test mode: Mode 1		

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.com E-mail: mti@51mti.com



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	Mate 30	/	HUAWEI		
Support cable list					
Description	Length (m)	From	То		
/	/	/	/		

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurement (9kHz~30MHz)	\pm 7.8%
Electric field measurements (9kHz~30MHz)	\pm 7.8%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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3 Test facilities and accreditations

3.1 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



4 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	2022/08/15	2023/08/14



5 Test result

5.1.1 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.

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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	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/f²)	<6		
30-300	61.4	0.163	1.0	<6		
300-1500			f/300	<6		
1500-100000			5	<6		
	(ii) Limits for Genera	l Population/Uncontrolled E	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		

f = frequency in MHz

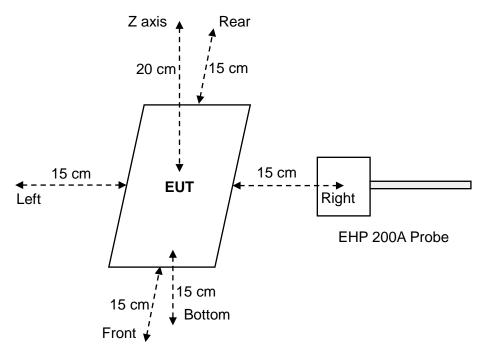
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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.

^{* =} Plane-wave equivalent power density

5.2 Test setup

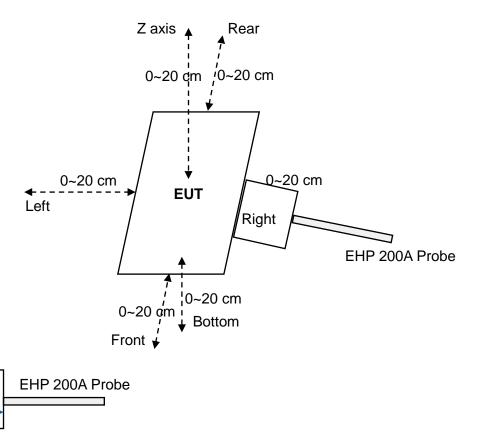
For mobile exposure conditions:



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For portable exposure conditions:

8.5cm



Notes: The EHP 200A Probe has a diameter of 8.5cm and a radius of 4.25cm.



5.3 Test Procedures

For mobile exposure conditions:

- 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 EUT 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.

For portable exposure conditions:

- a. The RF exposure test was performed in anechoic chamber.
- b. Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 20 cm
- c. The highest emission level was recorded and compared with limit.
- d. The EUT was measured according to the dictates of TCB Workshop "41-Part-18-&-Wireless-Power-Transfer April 27, 2022"

Notes: The EUT was setted to transmit continuously with the duty cycle of 100%.



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

Requirement	Device
Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies: 115 kHz – 205 kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power: 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 have one source primary coils.
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).	No. The EUT has portable exposure condition.
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, the H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 20 cm were also evaluated for portable use condition.

5.5 Test results

For portable exposure condition:

Note: operating modes with client device (1 %, 50%, 99% battery status of client device) have been test, only show the data of worst case of 1% battery status of client device.

Test condition 1: Mode 1 operating mode with client device (1 % battery status of client device) -test distance: 0~4cm

Antenna	Probe	H–field (A/m)			
Antenna	Position	Measurement	Limit	Max. Percentage (%)	
	Z axis	0.2128		20.069/	
	Left	0.1737			
1	Right	0.1121			
1	Front	0.1524	1.63	30.06%	
	Rear	0.1694			
	Bottom	0.4900			

Test condition 2: Mode 1 operating mode with client device (1 % battery status of client device) - Test distance 6cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
	Z axis	0.1131	1.63	27.66%
	Left	0.1101		
4	Right	0.0962		
1	Front	0.1412		
	Rear	0.1532		
	Bottom	0.4509		



Test condition 3: Mode 1 operating mode with client device (1 % battery status of client device) - Test distance 8cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
	Z axis	0.0771	1.63	15.57%
	Left	0.0895		
	Right	0.0669		
1	Front	0.1131		
	Rear	0.1288		
	Bottom	0.2538		

Test condition 4: Mode 1 operating mode with client device (1 % battery status of client device) - Test distance 10cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
	Z axis	0.0512	1.63	8.52%
	Left	0.0612		
4	Right	0.0510		
1	Front	0.1078		
	Rear	0.0893		
	Bottom	0.1388		

Test condition 5: Mode 1 operating mode with client device (1 % battery status of client device) - Test distance 12cm

Antenna	Probe Position	H-field (A/m)			
		Measurement	Limit	Max. Percentage (%)	
	Z axis	0.0518	1.63	5.69%	
	Left	0.0566			
4	Right	0.0505			
1	Front	0.0928			
	Rear	0.0604			
	Bottom	0.0803			



Test condition 6: Mode 1 operating mode with client device (1 % battery status of client device) - Test distance 14cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
	Z axis	0.0517	1.63	4.28%
	Left	0.0517		
4	Right	0.0505		
1	Front	0.0566		
	Rear	0.0697		
	Bottom	0.0550		

Test condition 7: Mode 1 operating mode with client device (1 % battery status of client device)

- Test distance 16cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
	Z axis	0.0513	1.63	3.45%
	Left	0.0488		
4	Right	0.0505		
1	Front	0.0556		
	Rear	0.0563		
	Bottom	0.0485		

Test condition 8: Mode 1 operating mode with client device (1 % battery status of client device) - Test distance 18cm

Antenna	Probe			
	Position	Measurement	Limit	Max. Percentage (%)
	Z axis	0.0505	1.63	3.29%
1	Left	0.0505		
	Right	0.0528		
	Front	0.0536		
	Rear	0.0501		
	Bottom	0.0505		



Test condition 9: Mode 1 operating mode with client device (1 % battery status of client device) - Test distance 20cm

Antenna	Probe	H–field (A/m)		
	Position	Measurement	Limit	Max. Percentage (%)
	Z axis	0.0486	1.63	3.21%
	Left	0.0488		
	Right	0.0488		
1	Front	0.0524		
	Rear	0.0493		
	Bottom	0.0498		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----