

RF EXPOSURE Test Report

Product: Magnetic Wireless Battery Pack
5000mAh
Trade Mark: mofhie
Model Number: POWER16
FCC ID: 2BCZZ-POWER16

Prepared for

Shenzhen Mofhie Wireless Charging Technology Co., LTD
1202, Building 4, Bangyan Green Valley, No. 98, Zhihe Road, Yuanshan,
Longgang District, Shenzhen, Guangdong, 518000 China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name.....: Shenzhen Mofhie Wireless Charging Technology Co., LTD
1202, Building 4, Bangyan Green Valley, No. 98, Zhihe
Address: Road, Yuanshan, Longgang District, Shenzhen,
Guangdong, 518000 China

Manufacturer's Name: Shenzhen Mofhie Wireless Charging Technology Co., LTD
1202, Building 4, Bangyan Green Valley, No. 98, Zhihe
Address: Road, Yuanshan, Longgang District, Shenzhen,
Guangdong, 518000 China

Product description

Product name: Magnetic Wireless Battery Pack 5000mAh

Model Number: POWER16

Standards: FCC CFR 47 PART 1 , 1.1310

Test procedure.....: KDB 680106 D01 Wireless Power Transfer v04

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test.....:

Date (s) of performance of tests.....: Jan. 04, 2025~ Jan. 18, 2025

Test Result.....: **Pass**

Testing Engineer :



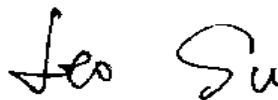
(Z o e S u)

Technical Manager :



(G a r y L u)

Authorized Signatory :



(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	Magnetic Wireless Battery Pack 5000mAh
Model name:	POWER16
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	Phone: 111kHz-205kHz (5W, 7.5W,10W,15W), 360kHz (15W) Watch: 327kHz (2.5W), 1778kHz (5W)
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Hardware version:	V1.0
Software version:	V1.0
Battery:	DC 3.87V, 5000mAh, 19.35Wh
Power supply:	Battery Capacity: 5000mAh (19.35Wh) Rated Capacity: 3000mAh USB-C Input: 5V=3A, 9V=2A USB-C Output: 5V=2.4A, 9V=2.22A Wireless Output (Phone): 5W, 7.5W, 10W, 15W Wireless Output (Watch): 2.5W, 5W
Adapter information:	N/A

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	AC/DC Adapter + Wireless Output (Phone: 5W) + Wireless Output (Watch: 2.5W)
2	AC/DC Adapter + Wireless Output (Phone: 5W) + Wireless Output (Watch: 5W)
3	Wireless Output (Phone: 7.5W) + Wireless Output (Watch: 2.5W)
4	Wireless Output (Phone: 7.5W) + Wireless Output (Watch: 5W)
5	Wireless Output (Phone: 5W)
6	Wireless Output (Phone: 7.5W)
7	Wireless Output (Phone: 10W)
8	Wireless Output (Phone: 15W)

9	Wireless Output (Watch: 2.5W)
10	Wireless Output (Watch: 5W)

1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Adapter	CD289	35810	Ugreen Group Limited
Load	YBZ1.1	/	YBZ
Watch	A2859	M69PQQ7J2T	Apple Inc.

2 Test Facilities and Accreditations

2.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

2.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

2.3 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 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
E-field	± 2.5 dB	
H-field	± 4.2 dB	
Temperature	± 1 degree	
Humidity	± 5 %	

2.4 Test Software

Software name	Manufacturer	Model	Version
MAGPy V2.6	Schmid & Partner Engineering AG	MAGPy V2.6	V2.6

3 List of Test Equipment

Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E077	Magnetic Amplitude and Gradient Probe System	Schmid & Partner Engineering AG	MAGPy -8H3D+E3D	3107	2024-03-15	2025-03-14
2	HB-E078	Magnetic Amplitude and Gradient Probe System	Schmid & Partner Engineering AG	MAGPy-DAS	3097	2024-03-15	2025-03-14

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4 RF Exposure

4.1 Maximum Permissible Exposure

4.1.1. Limit

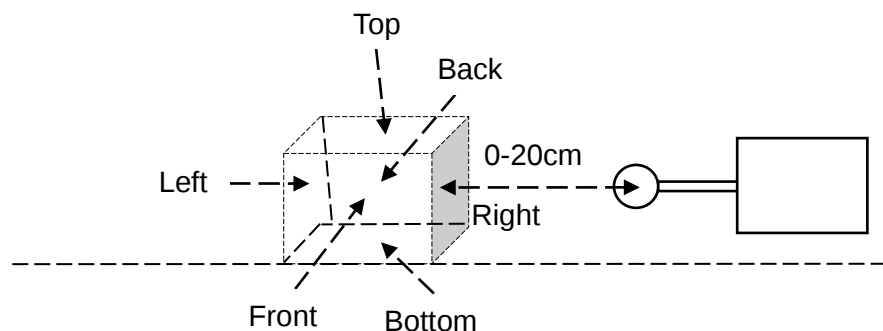
Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm ²)	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0 6	6
300-1500	/	/	f/300	6
1500-100000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100000	/	/	1	30

f = frequency in MHz * = Plane-wave equivalent power density

4.1.2. Test Procedures

- The RF exposure test was performed in anechoic chamber.
- 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.
- The highest emission level was recorded and compared with limit.
- The EUT was measured according to the dictates of TCB Workshop "41-Part-18-&-Wireless-Power-Transfer - April 27, 2022"

4.1.3. Test Setup



4.1.4. Test Result

For portable exposure condition:

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.

H-field measurements taken every 2 cm (starting as close to 20 cm as possible) on each edge/top surface of the host/client pair were also evaluated for portable use conditions. The report reflects data for the worst 0 cm test distance mode only.

Test condition 1: Mode 4 operating mode with client device (1 % battery status of client device).

Measurement results directly tested using MAGPy.

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<1%	Top	0	16.9	0.02
<1%	Left	0	25.4	0.22
<1%	Right	0	6.51	0.17
<1%	Front	0	17.3	0.25
<1%	Back	0	5.19	0.11
<1%	Bottom	0	33.1	0.93
Limit			614	1.63
Margin Limit (%)			5.3%	57%

When setting MAGPy to select compliance location as probe tip, the measured value is extrapolated to 0mm as the result.

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<1%	Top	0	28.5	1.44
<1%	Left	0	30.8	1.31
<1%	Right	0	8.04	0.41
<1%	Front	0	21.9	1.51
<1%	Back	0	12.2	0.68
<1%	Bottom	0	38.8	1.55
Limit			614	1.63
Margin Limit (%)			6.3%	95%

5 Photographs of the Test Setup

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



***** END OF REPORT *****