

Test Report

Report No. : MTi250114042-0103E2

Date of Issue : 2025-02-28

Applicant : Shenzhen Trusda Industrial Co., Ltd.

Product : Power Bank

Model(s) : LS2C.M2

FCC ID : 2ASBY-LS2CM2

Shenzhen Microtest Co., Ltd.



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	Test Result Certific	eation	Nictor	
	Applicant	Shenzhen Trusda Industrial Co., Ltd.		
	Applicant Address	3/F, Building 4, Lianchuang Technology Pa Longgang District, Shenzhen, China	rk, Bulan Road, Nanwan Street,	
	Manufacturer	Shenzhen Trusda Industrial Co., Ltd.		
C	Manufacturer Address	3/F, Building 4, Lianchuang Technology Pa Longgang District, Shenzhen, China	rk, Bulan Road, Nanwan Street,	
0	Product descriptio	n _{stest}		
	Product name	Power Bank	est	
	Trademark	Trusda		
	Model name	LS2C.M2		
(Series Model(s)	N/A	. Cotest	
	Standards	FCC CFR 47 PART 1, § 1.1310 part2.1093		
	Test method	KDB 680106 D01 Wireless Power Transfer v04		
	Testing Information	n Micros	:: (TOTES	
	Date of test	2025-02-18 to 2025-02-26		
	Test Result	Pass		
	Prepared by	Yanice.Xie	Yanice Xie Dowid. Lee Coor chan	
	Reviewed by	David Lee	Dowid. Ce	
	Approved by	Leon Chen	leon chan	

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1 General Description

1.1 Description of the EUT

Product name:	Power Bank
Model name:	LS2C.M2
Series Model: N/A	
Model difference:	N/A
Electrical rating:	Capacity:10000mAh/3.85V/38.5Wh Rated Capacity:6000mAh USB-C Input: 5V=3A, 9V=2A, 12V=1.5A,18W(MAX) USB-C Cable Input: 5V=3A, 9V=2A, 12V=1.5A,18W(MAX) USB-C Output: 5V=3A, 9V=2.22A,12V=1.67A 20W(MAX) USB-C Cable Output: 5V=3A, 9V=2.22A,12V=1.67A 20W(MAX) Wireless output:5W/15W USB-C+USB-C Cable/ USB-C + Wireless / USB-C cable+Wireless output:DC 5V/3A 15WMAX Rated power:20W
Accessories:	N/A
Hardware version:	1.0
Software version:	1.0
Test sample(s) number:	MTi250114042-01-R001
RF specification:	
Operation frequency:	115-205kHz&360kHz
Modulation type:	ASK
Antenna type:	Coil

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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	
Mode1	Charging(USB-C)+Wireless Output(5W)	
Mode2	Charging(USB-C)+Wireless Output(15W)	
Mode3	Charging(USB-C Cable)+Wireless Output(5W)	
Mode4	Charging(USB-C Cable)+Wireless Output(15W)	
Mode5	Wireless Output(5W)	
Mode6	Wireless Output(15W)	
Mode7	Standby	

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		
HUAWEI QUICK CHARGE	HW-200200ZP1	JN67LSN7N03451	HUAWEI		
Mobile phone	Mate 30	/	HUAWEI		
Mobile phone	iPhone 15	KXPWNQFK90	Apple		
Support cable list	Support cable list				
Description	Length (m)	From	То		
/	/	/	/		

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2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.8%
Electric field measurements(3kHz~10MHz)	±17.5%

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

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		

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4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E143	Near-field Electric and Magnetic Field Sensor System	SPEAG	MAGPy-8H3 D+ED3	3101	2024/3/12	2027/3/11

No.	Equipment	Manufacturer	Model	Software version:	Cal. date	Cal. Due
MTI-E016S	MPE test software	SPEAG	MAGPY 2.6	2.6	/	/

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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 Occ	upational/Controlled Exp	osure	
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 General	Population/Uncontrolled	l 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

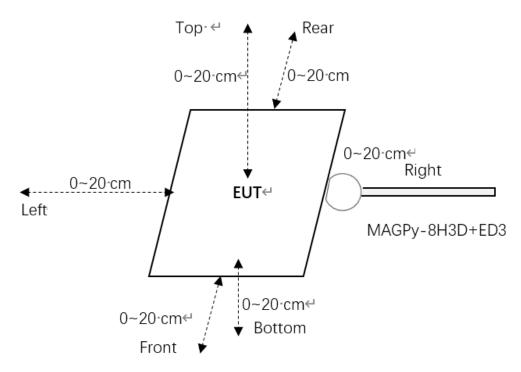
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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

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5.2 Test setup



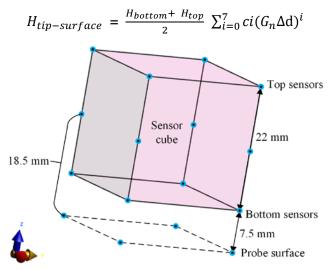
Note: tips mode of the test probe is used for 0cm measurement.

5.3 Test Procedures

a. H-field measurements should be taken 0 cm ~ 20 cm with 2 cm increments from the center of the probe.

The center of the probe to the tip surface of the probe is 18.5 mm, so the directly testing can be performed at the probe center from 2 cm to 20 cm.

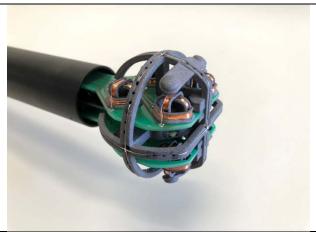
To measure the 0 cm H-filed, the probe tip mode is used. The total H-field at the tip-surface H_{tip-surface} can be extrapolated using the total H-field measured at the top and bottom sensors, H_{top} and H_{bottom}, as well as the normalized H-field gradient G_n. The field extrapolation formula is a polynomial function of G_n ($\Delta d = 18.5 \text{ mm}$)



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5.4 Information of test equipment

Test equipment: MAGPy-8H3D+ED	3
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm ² arranged at the corner of a cube of 22mm side length
1 isotropic E-field sensor	Orthogonal dipole/monopple(arm length:50mm)
Measurement center	18.5mm from the probe tip
Dimensions	110*635*35mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)



Test probe, without the casing

Item	Specification
Test frequency range:	3kHz ~ 10MHz
Probe sensitivity	E-filed: 0.08-2000 V/m
Flobe Selisitivity	H-filed: 0.1-3200 A/m
Drobe level recognic	E-filed: ±1dB
Probe level response	H-field: ±1dB
linearity error	E-filed: ±0.3dB
linearity error	H-field: ± 0.3 dB
lastrony	E-filed: ±0.8dB
Isotropy	H-field: ±0.6dB

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5.5 Test results

All client power has been assessed (1%,50%, 99%), and the 1% battery status of client device was the worst.

Test condition 1: Mode5 operating mode with client device (1 % battery status of client device)

-estimated value: 0cm

Estimated value for H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Probe Position	H–field (A/m)		
Trobe resident	Measurement	Limit	Percentage (%)
Z axis	1.24		
Left	1.59		
Right	0.83	1.63	97.55%
Front	1.27	1.63	91.55%
Rear	1.45		
Bottom	0.08		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 2cm

Probe Position –	H–field (A/m)		
T TODG T GSICION	Measurement	Limit	Percentage (%)
Z axis	0.76		
Left	1.52		93.25%
Right	0.43	1.62	
Front	0.87	1.63	
Rear	0.96		
Bottom	0.02		

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Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 4cm

Probe Position	H–field (A/m)		
1 TODE T OSITION	Measurement	Limit	Percentage (%)
Z axis	0.64		
Left	1.01	1.63	
Right	0.29		64.069/
Front	0.58		61.96%
Rear	0.61		
Bottom	0.01		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 6cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.34		38.04%
Left	0.62		
Right	0.15	1.62	
Front	0.34	1.63	
Rear	0.26		
Bottom	0.008		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 8cm

Probe Position	H–field (A/m)		
1 Tobe T osition	Measurement	Limit	Percentage (%)
Z axis	0.15	4.00	22.09%
Left	0.36		
Right	0.09		
Front	0.18	1.63	
Rear	0.14		
Bottom	0.007		

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Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 10cm

Probe Position	H-field (A/m)		
1 TODE T OSITION	Measurement	Limit	Percentage (%)
Z axis	0.11		
Left	0.2	1.63	12.27%
Right	0.03		
Front	0.05		
Rear	0.04		
Bottom	0.004		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 12cm

Probe Position	H–field (A/m)		
Trobe resident	Measurement	Limit	Percentage (%)
Z axis	0.102		
Left	0.186		
Right	0.028	1.63	11.41%
Front	0.047	1.00	11.4170
Rear	0.037		
Bottom	0.004		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 14cm

Probe Position	H-field (A/m)		
1 TODE T OSITION	Measurement	Limit	Percentage (%)
Z axis	0.089		
Left	0.162		
Right	0.024	1.63	9.94%
Front	0.041		3.3470
Rear	0.032		
Bottom	0.003		

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Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 16cm

Probe Position —	H–field (A/m)		
Trobe resident	Measurement	Limit	Percentage (%)
Z axis	0.0490		
Left	0.0891		
Right	0.0132	1.63	5.47%
Front	0.0226	1.03	3.47 /6
Rear	0.0176		
Bottom	0.0017		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 18cm

Probe Position	H–field (A/m)		
r robe r obition	Measurement	Limit	Percentage (%)
Z axis	0.0328		
Left	0.0597		
Right	0.0088	1.63	3.66%
Front	0.0151	1.63	3.0076
Rear	0.0118		
Bottom	0.0011		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 20cm

Probe Position	H-field (A/m)		
1 Tobe T dollon	Measurement	Limit	Percentage (%)
Z axis	0.0256		
Left	0.0466		
Right	0.0069	1.63	2.86%
Front	0.0118	1.03	2.0070
Rear	0.0092		
Bottom	0.0009		

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All client power has been assessed (1%,50%, 99%), and the 1% battery status of client device was the worst.

Test condition 1: Mode6 operating mode with client device (1 % battery status of client device)

-estimated value: 0cm

Estimated value for H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Probe Position	H–field (A/m)		
1 TOBE T COMO	Measurement	Limit	Percentage (%)
Z axis	1.60	1.63	
Left	1.47		
Right	1.59		99.39%
Front	1.55		99.39%
Rear	1.62		
Bottom	0.30		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 2cm

Probe Position	H–field (A/m)		
1 TODE I OSITION	Measurement	Limit	Percentage (%)
Z axis	1.46		96.93%
Left	1.18		
Right	1.15	1.63	
Front	1.03	1.03	
Rear	1.58	 	
Bottom	0.15		

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Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 4cm

Probe Position -	H-field (A/m)		
1 Tobe T dollion	Measurement	Limit	Percentage (%)
Z axis	1.19		
Left	1.32		
Right	1.12	1.62	80.98%
Front	1.17	1.63	60.96 %
Rear	1.19		
Bottom	0.09		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 6cm

Probe Position	H-field (A/m)		
Trobe resident	Measurement	Limit	Percentage (%)
Z axis	1.19	1.63	73.01%
Left	1.08		
Right	1.12		
Front	1.03		
Rear	1.14		
Bottom	0.02		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 8cm

Probe Position	H–field (A/m)		
1 Tobe T osition	Measurement	Limit	Percentage (%)
Z axis	0.97	1.63	72.39%
Left	1.05		
Right	0.84		
Front	0.75		
Rear	1.18		
Bottom	0.009		

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Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 10cm

Probe Position	H-field (A/m)		
1 TODE T OSITION	Measurement	Limit	Percentage (%)
Z axis	0.45		
Left	0.68		
Right	0.41	4.00	54.520/
Front	0.33	1.63	51.53%
Rear	0.84		
Bottom	0.006		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 12cm

Probe Position -	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.43		
Left	0.65	1.63	49.08%
Right	0.39		
Front	0.31		
Rear	0.80		
Bottom	0.01		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 14cm

Probe Position	H–field (A/m)		
1 TODE T OSITION	Measurement	Limit	Percentage (%)
Z axis	0.288		32.88%
Left	0.436	1.63	
Right	0.261		
Front	0.208		
Rear	0.536		
Bottom	0.007		

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Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 16cm

Probe Position	H-field (A/m)		
1 TODE T OSITION	Measurement	Limit	Percentage (%)
Z axis	0.228		
Left	0.344	1.63	25.95%
Right	0.206		
Front	0.164		
Rear	0.423		
Bottom	0.006		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 18cm

Probe Position	H-field (A/m)		
1 TODE T COMON	Measurement	Limit	Percentage (%)
Z axis	0.089		10.12%
Left	0.134		
Right	0.080	1.62	
Front	0.064	1.63	
Rear	0.165		
Bottom	0.002		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 20cm

Probe Position	H–field (A/m)		
1 TODE T CSILION	Measurement	Limit	Percentage (%)
Z axis	0.035		3.93%
Left	0.052		
Right	0.031	1.62	
Front	0.025	1.63	
Rear	0.064		
Bottom	0.001		

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Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

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Statement

- 1. This report is invalid without the seal and signature of the laboratory.
- 2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
- 3. The report shall not be partially reproduced without the written consent of the Laboratory.
- 4. This report is invalid if transferred, altered or tampered with in any form without authorization.
- 5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
- 6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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