RF EXPOSURE REPORT

Applicant	:	Shenzhen Romoss Technology Co., Ltd.
Address of Applicant	:	Room1601, BLOCK B, Building 7, Shenzhen International Innovation Valley, Dashi 1st Road Xili community, Xili Street, Nanshan, Shenzhen, Guangdong, P.R.China
Manufacturer	:	Jiangmen Romoss Technology Co., Ltd.
Address of Manufacturer	:	Room 01-2, First floor, Building 8, No. 80, Renhe Road, Tangxia Town, Pengjiang District, Jiangmen City
Equipment under Test	:	Portable Power Station
Model No.	:	RM1800
FCC ID	:	2A6QM-RM1800
Test Standard(s)	:	FCC CFR 47 part1, 1.1307(b), 1.1310; KDB680106 DR03-44118
Report No.	:	DDT-RE24110421-4E02
Issue Date	:	2025/01/09
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

Table of Contents

Test Report Declare

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Test Standard Used:

FCC CFR 47 part1, 1.1307(b), 1.1310; KDB680106 DR03-44118

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24110421-4E02		
Date of Receipt:	2024/12/16	**Date of Test:**	2024/12/16~2025/01/09

Prepared By:

Johnson Huang

Johnson Huang/Engineer

Approved By:

Damon Hu

Certificate and Report Seal 检验检测专用章

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2025/01/09	

1. General Test Information

1.1. Description of EUT

EUT Name	:	Portable Power Station
Model Number	:	RM1800
EUT Function Description	:	Cell Capacity: 1344Wh 44.8V 30Ah (420000mAh 3.2V) AC Output (x4):110-130V~60Hz, 16.4A (Total: 1800W) Car Charger Output (x1): 12V/10A (120W Max) DC5525 Output (x2):12V/10A (120W Max) USB-A Output (x4):5V/3A, 9V/2A,12V/1.5A (18W Max) Type-C Output (x2):5V/3A, 9V/3A,12V/3A,15V/3A, 20V/5A (100W Max) Wireless Charging Output: 15W Total Output: 2000W
Power Supply	:	AC input: 110-130V~ 60Hz, 15A Max, DC input: 12-60V, 15A, 600W Max

Wireless charging Operation frequency	:	110.5kHz-205kHz
Antenna Type	:	Inductive loop coil antenna

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

"☒" means to be chosen or applicable; "□" means don't to be chosen or not applicable; This note applies to entire report.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

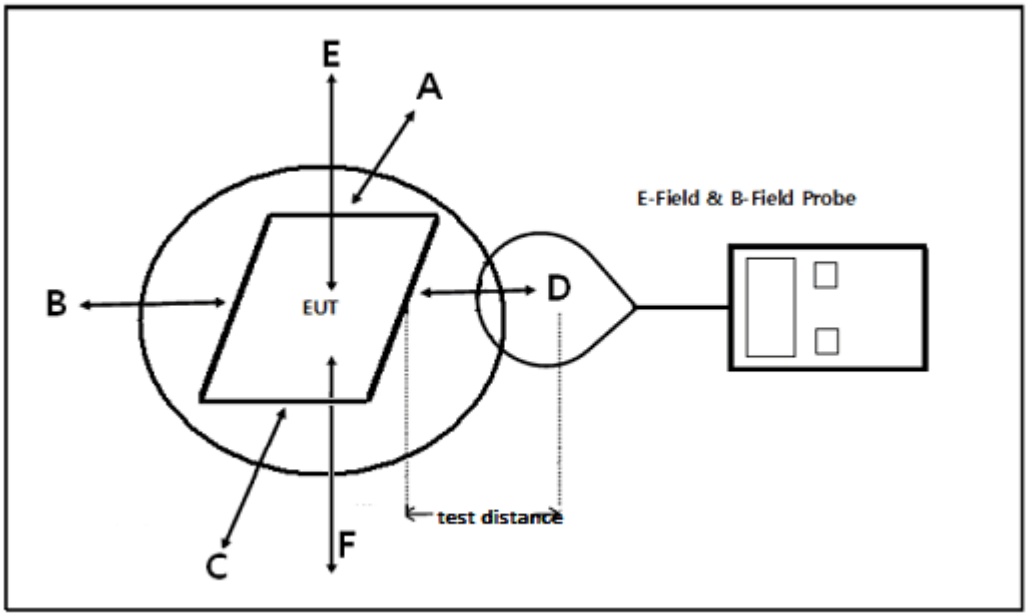
VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

2.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Isotropic EM Field Probe	Wavecontrol	WP400	DDT-ZC02464	2025/06/28

2.2. Block diagram of test setup



2.3. Limits

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.According KDB 680106 D01 Wireless Power Transfer v04.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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/f2	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			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/f2	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

2.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Dummy load	N/A	N/A	N/A	N/A

2.5. Test procedure

a)The RF exposure test was performed in shielded chamber.
b)The measurement probe was placed at test distance 20 cm which is between the edge of the charger and the geometric centre of probe.
c)The measurement probe used to search of highest strength.
d)The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
e)The EUT were measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.

2.6. Test result

Dummy load is working on 5W load, 10W, 15W.
All test modes were pre-tested, but we only recorded the worst case in this report.

Test Distance (cm)	Test Position	Probe Measure Result(V/m)			Limits Test (V/m)
		5W	10W	15W	
20	A	0.51	0.80	0.42	614
	B	0.58	0.67	0.69	614
	C	0.64	0.57	0.96	614
	D	0.52	0.86	0.75	614
	E	0.84	1.04	3.27	614

Test Distance (cm)	Test Position	Probe Measure Result(A/m)			Limits Test (A/m)
		5W	7.5W	15W	
20	A	0.04	0.05	0.07	1.63
	B	0.02	0.04	0.06	1.63
	C	0.04	0.05	0.08	1.63
	D	0.03	0.04	0.07	1.63
	E	0.05	0.08	0.08	1.63

4. Photos of the EUT

Please refer to DDT-Q24110421-2E appendix I

----------End Report----------