Test Report

Report No.: MTi240613020-05E1

Date of issue: 2024-06-27

Applicant: Mirror Health Inc.

Product: Ring charging case

Model(s): 1A-C

FCC ID: 2BG7N-1AC

Shenzhen Microtest Co., Ltd.

http://www.mtitest.cn

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86-755) 88850135-1349 Fax: (86-755) 88850136 Web: http://www.mtitest.cn E-mail: office@51mti.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.

Table of contents

Test Result Certification	
Applicant:	Mirror Health Inc.
Address:	169 Madison Avenue, STE 11372, New York, NY 10016
Manufacturer:	Joint Chinese Ltd
Address:	Building 4 & 6, Huafeng Tech Park, Guangtian Road, Luotian Industrial Area, Songgang Town, Bao'an District, Shenzhen, China
Product description	
Product name:	Ring charging case
Trademark:	N/A
Model name:	1A-C
Series Model(s):	N/A
Standards:	47 CFR Part 18
Test Standards:	FCC/OST MP-5 (1986).
Date of Test	
Date of test:	2024-06-18 to 2024-06-21
Test result:	Pass

Test Engineer	:	James Qin
		(James Qin)
Reviewed By	:	David. Lee
		(David Lee)
Approved By	:	Leon chen
		(Leon Chen)

1 General Description

1.1 Description of the EUT

Product name:	Ring charging case
Model name:	1A-C
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V Wireless Output: 16mA Battery: DC3.7V, 500mAh
Accessories:	Cable: USB-A to USB-C Cable 30cm
Hardware version:	2330-MB10-V1
Software version:	X2AV0
Test sample(s) number:	MTi240613020-05S1001
RF specification:	
Operation frequency:	290kHz
Modulation type:	Load modulation
Antenna type:	Coil Antenna

1.2 Description of test modes

For test, the EUT has been pre-tested under the following test modes, Only the worst case data will be shown in the report.

No.	Emission test modes
Mode1	Wireless Chargring
Mode1	Stand by

1.3 Environmental Conditions

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

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list			
Description	Model	Serial No.	Manufacturer
/	/	/	/
Support cable list			
Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Radiated emissions (9kHz~30MHz)	±4.3dB
Temperature	±1 °C
Humidity	± 5 %

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

2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Conducted Emissions on AC Power Line	47 CFR Part 18	18.307	Pass
2	Radiated Emissions (9kHz-30MHz)	47 CFR Part 18	18.305	Pass

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
IC Registration No.:	21760
CABID:	CN0093

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emissions on AC Power Line						
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2024-03-20	2025-03-19
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2024-03-21	2025-03-20
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2024-03-20	2025-03-19
Radiated Emissions (9kHz-30MHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19

5 Emission Test Results (EMI)

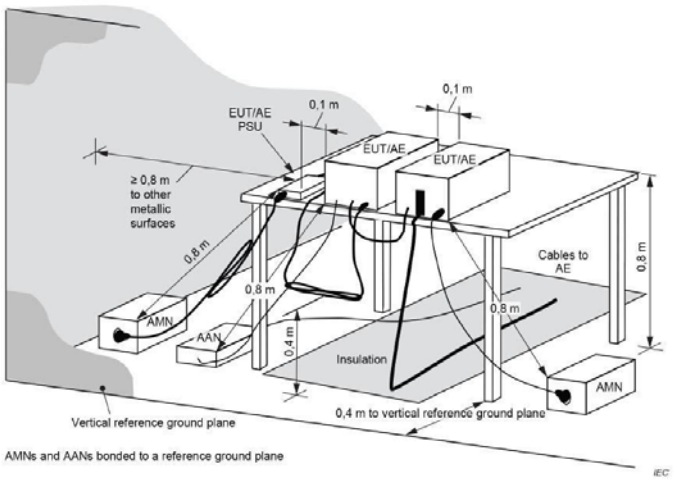
5.1 Conducted Emissions on AC Power Line

Test Requirement:	18.307
Test Method:	MP-5 Clause 7
Procedure:	An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor

5.1.1 E.U.T. Operation:

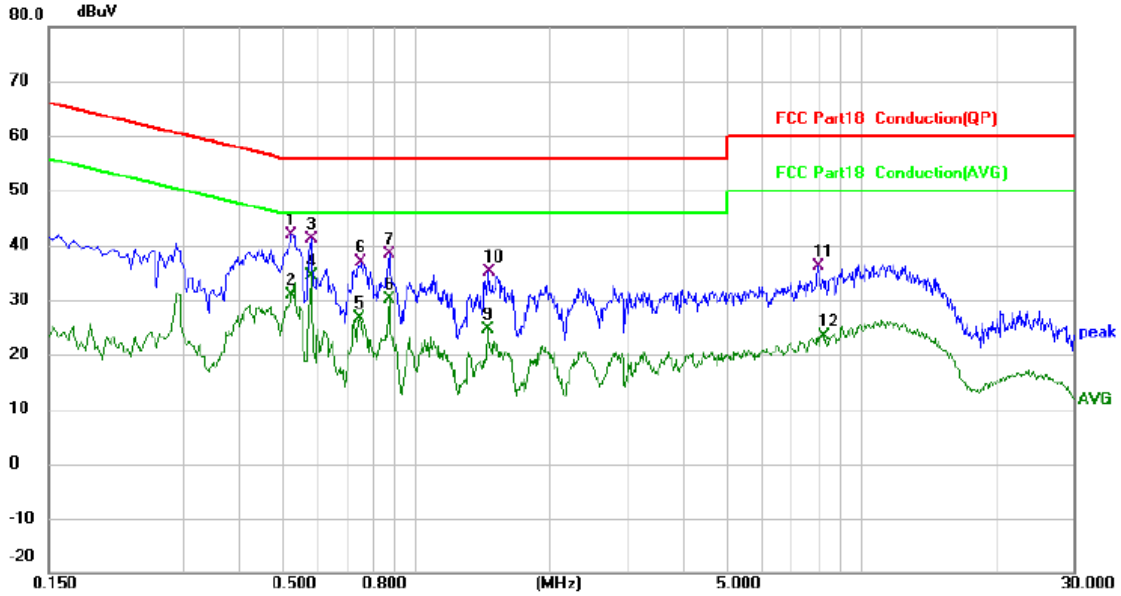
Operating Environment:					
Temperature:	25 °C	Humidity:	59 %	Atmospheric Pressure:	99 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report				

5.1.2 Test Setup Diagram:



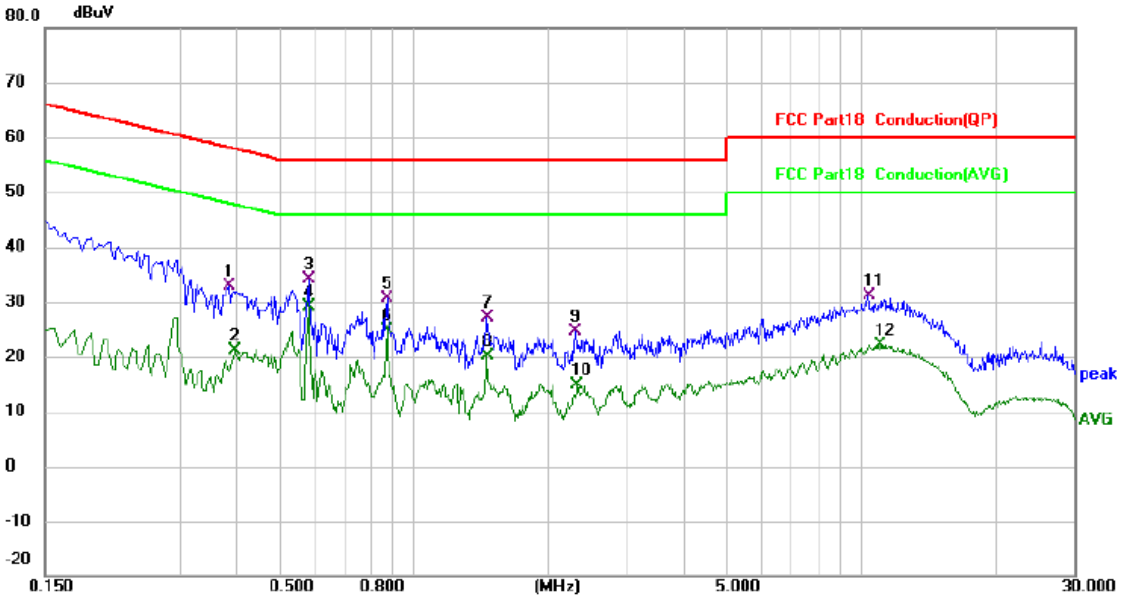
5.1.3 Test Data:

Mode1 / Line: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5260	31.45	10.41	41.86	56.00	-14.14	QP	
2		0.5260	20.58	10.41	30.99	46.00	-15.01	AVG	
3		0.5820	30.71	10.40	41.11	56.00	-14.89	QP	
4	*	0.5820	24.07	10.40	34.47	46.00	-11.53	AVG	
5		0.7500	16.35	10.40	26.75	46.00	-19.25	AVG	
6		0.7580	26.51	10.40	36.91	56.00	-19.09	QP	
7		0.8740	28.03	10.42	38.45	56.00	-17.55	QP	
8		0.8740	19.60	10.42	30.02	46.00	-15.98	AVG	
9		1.4540	14.27	10.44	24.71	46.00	-21.29	AVG	
10		1.4580	24.72	10.44	35.16	56.00	-20.84	QP	
11		7.9940	25.83	10.35	36.18	60.00	-23.82	QP	
12		8.2660	13.07	10.36	23.43	50.00	-26.57	AVG	

Mode1 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3860	22.63	10.34	32.97	58.15	-25.18	QP	
2		0.3980	10.67	10.34	21.01	47.90	-26.89	AVG	
3		0.5820	23.67	10.34	34.01	56.00	-21.99	QP	
4	*	0.5820	18.74	10.34	29.08	46.00	-16.92	AVG	
5		0.8740	20.31	10.37	30.68	56.00	-25.32	QP	
6		0.8740	14.58	10.37	24.95	46.00	-21.05	AVG	
7		1.4580	16.73	10.41	27.14	56.00	-28.86	QP	
8		1.4580	9.77	10.41	20.18	46.00	-25.82	AVG	
9		2.2980	14.16	10.42	24.58	56.00	-31.42	QP	
10		2.3300	4.41	10.42	14.83	46.00	-31.17	AVG	
11		10.3940	20.65	10.51	31.16	60.00	-28.84	QP	
12		10.9940	11.69	10.51	22.20	50.00	-27.80	AVG	

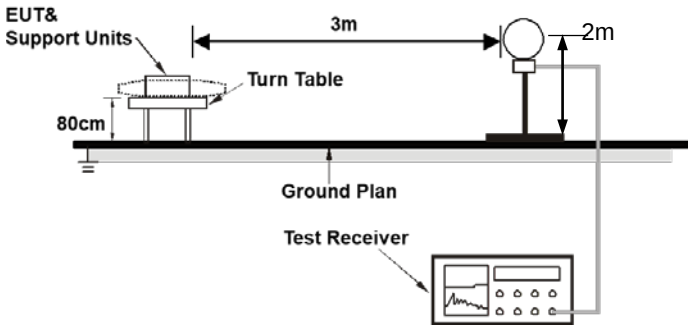
5.2 Radiated Emissions (9kHz-30MHz)

<table>
<tr><td>Test Requirement:</td><td colspan="4">18.305</td></tr>
<tr><td>Test Limit:</td><td colspan="4">
<table>
<tr><td>Operating frequency</td><td>RF Power generated by equipment (watts)</td><td>Field strength limit (uV/m)</td><td>Distance (meters)</td></tr>
<tr><td>Any ISM frequency</td><td>Below 500</td><td>25</td><td>300</td></tr>
<tr><td></td><td>500 or more</td><td>25 × SQRT(power/500)</td><td>300 (1)</td></tr>
<tr><td>Any non-ISM frequency</td><td>Below 500</td><td>15</td><td>300</td></tr>
<tr><td></td><td>500 or more</td><td>15 × SQRT(power/500)</td><td>300 (1)</td></tr>
<tr><td>On or below 5,725 MHz</td><td>Any</td><td>10</td><td>1,600</td></tr>
<tr><td>Above 5,725 MHz</td><td>Any</td><td>(2)</td><td>(2)</td></tr>
<tr><td>Any ISM frequency</td><td>Any</td><td>25</td><td>300</td></tr>
<tr><td>Any non-ISM frequency</td><td>Any</td><td>15</td><td>300</td></tr>
<tr><td>Below 490 kHz</td><td>Below 500</td><td>2,400/F(kHz)</td><td>300</td></tr>
<tr><td></td><td>500 or more</td><td>2,400/F(kHz) × SQRT(power/500)</td><td>300 (3)</td></tr>
<tr><td>490 to 1,600 kHz</td><td>Any</td><td>24,000/F(kHz)</td><td>30</td></tr>
<tr><td>Above 1,600 kHz</td><td>Any</td><td>15</td><td>30</td></tr>
<tr><td>Below 90 kHz</td><td>Any</td><td>1,500</td><td>30 (4)</td></tr>
<tr><td>On or above 90 kHz</td><td>Any</td><td>300</td><td>30 (4)</td></tr>
<tr><td colspan="4">(1) Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
(2) Reduced to the greatest extent possible.
(3) Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
(4) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.</td></tr>
</table>
</td></tr>
<tr><td>Test Method:</td><td colspan="4">MP-5 Clause 5/6</td></tr>
<tr><td>Procedure:</td><td colspan="4">Frequency range: 9KHz-30MHz
For a loop antenna. The antenna height shall be set at around 2 meters. An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by loop antenna with 2 orthogonal polarities.
The red line show in graphic is the limit in standard used in this section.
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor</td></tr>
</table>

5.2.1 E.U.T. Operation:

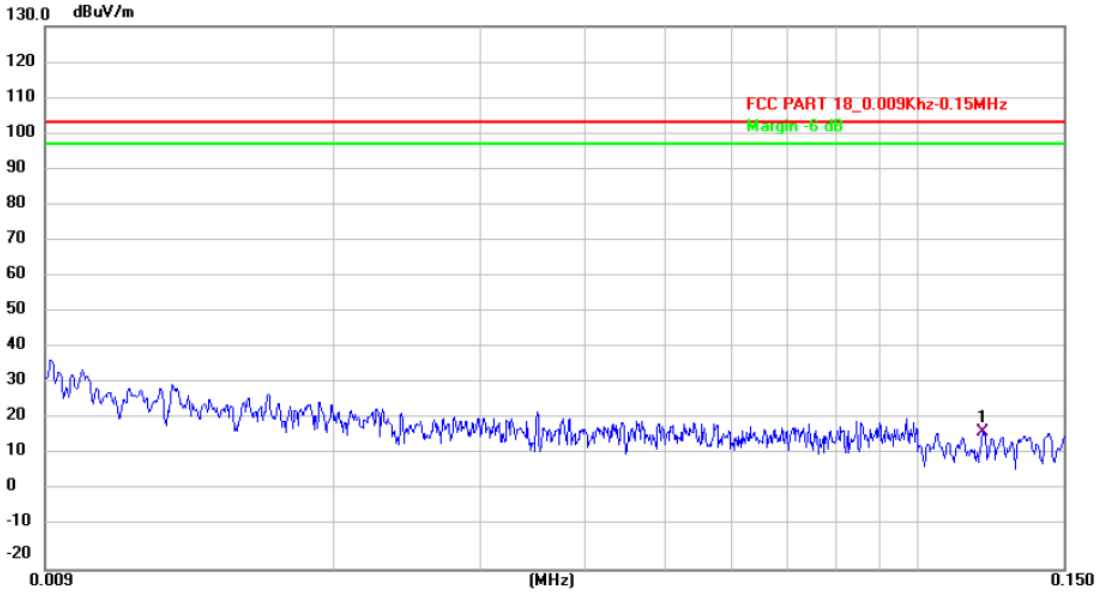
<table>
<tr><td colspan="6">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>25 °C</td><td>Humidity:</td><td>58 %</td><td>Atmospheric Pressure:</td><td>98 kPa</td></tr>
<tr><td>Pre test mode:</td><td colspan="5">Mode1, Mode2</td></tr>
<tr><td>Final test mode:</td><td colspan="5">All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report</td></tr>
</table>

5.2.1 Test Setup Diagram:



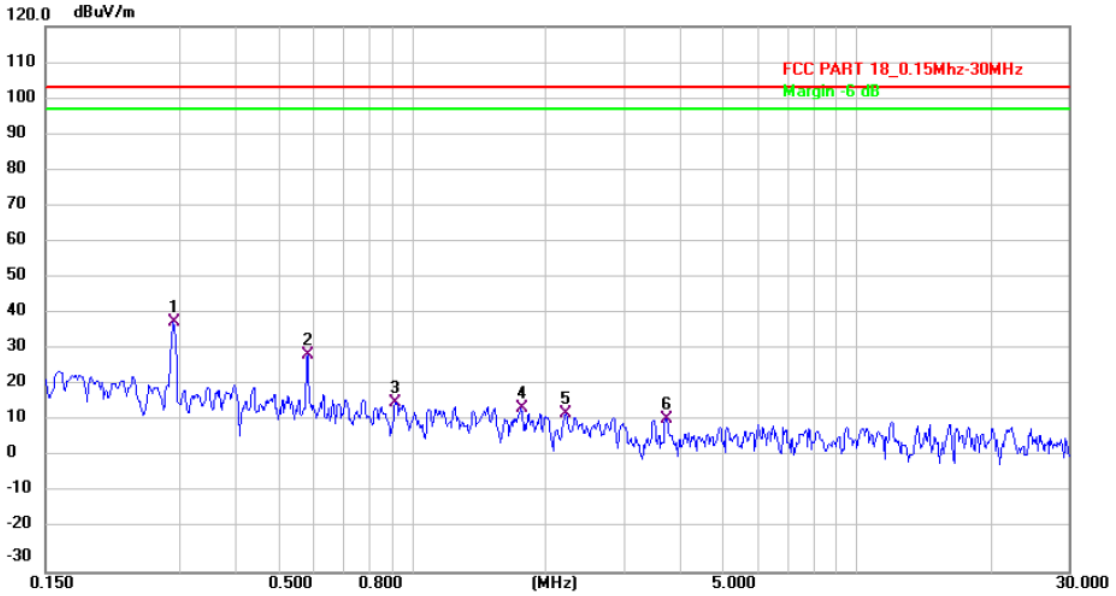
5.2.2 Test Data:

Mode1 / Polarization: coaxial



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.1201	-2.77	20.99	18.22	103.50	-85.28	QP	

Mode1 / Polarization: coaxial



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.2909	17.62	21.08	38.70	103.50	-64.80	QP	
2		0.5823	8.55	21.17	29.72	103.50	-73.78	QP	
3		0.9184	-4.57	21.31	16.74	103.50	-86.76	QP	
4		1.7623	-6.26	21.38	15.12	103.50	-88.38	QP	
5		2.2132	-7.87	21.40	13.53	103.50	-89.97	QP	
6		3.7198	-9.22	21.51	12.29	103.50	-91.21	QP	

Photographs of the test setup

Refer to Appendix - Test Setup Photos .

Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----