Test Report

Report No.:	MTi230815008-01E2
Date of issue:	2023-10-28
Applicant:	Anker Innovations Limited
Product:	Anker MagGo Wireless Charging Station (15W, Foldable 3-in-1)
Model(s):	A2557
FCC ID:	2AOKB-A2557

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com

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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.

Contents

Test Result Certification	
Applicant:	Anker Innovations Limited
Address:	Room 1318-19, Hollywood Plaza 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer:	Anker Innovations Limited
Address:	Room 1318-19, Hollywood Plaza 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Product description	
Product name:	Anker MagGo Wireless Charging Station (15W, Foldable 3-in-1)
Trademark:	ANKER
Model name:	A2557
Series Model:	N/A
Standards:	FCC CFR 47 PART 1, § 1.1310 FCC CFR 47 PART 2, § 2.1091
Test method:	KDB 680106 D01 Wireless Power Transfer v04
Date of Test	
Date of test:	2023-08-28 to 2023-10-24
Test result:	Pass

Test Engineer : Yanice Xie

(Yanice.Xie)

Reviewed By: : Leon Chen

(Leon Chen)

Approved By: : Tom Xue

(Tom Xue)

1 General Description

1.1 Description of the EUT

Product name:	Anker MagGo Wireless Charging Station (15W, Foldable 3-in-1)
Model name:	A2557
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input:12⎓3A/ 15V⎓2.66A Output:15W Max/5W Max/5W Max (Phone:15W Max/ Apple Watch:5W Max / TWS:5W Max)
Accessories:	1.Adaptor(model:ASPD53a-P40W20): Input:100-240V~50/60Hz 1.0A Output:5V⎓3A/ 9V⎓3A/ 12V⎓3A/ 15V⎓2.66A/ 20V⎓2A Manufacturer:Shenzhen Aquilstar Technology Co., Ltd. 2.Cable:Type-C to type-C 1.5m
Hardware version:	V1.3
Software version:	V1.0
RF specification:	
Operation frequency:	Transmitter 1 (Phone): 115 kHz – 205 kHz Transmitter 1 (Phone): 360 kHz Transmitter 2 (Earphone): 115 kHz – 205 kHz Transmitter 3 (Watch): 326.5 kHz Transmitter 3 (Watch):1.778 MHz
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
Mode1	Wireless Output(Phone:5W)
Mode2	Wireless Output(Phone:7.5W)
Mode3	Wireless Output(Phone:15W)
Mode4	Wireless Output(Apple watch:3W)
Mode5	Wireless Output(Apple watch:5W)
Mode6	Wireless Output(TWS:5W)
Mode7	Wireless Output(Phone:5W+TWS:5W)
Mode8	Wireless Output(Phone:7.5W+TWS:5W)
Mode9	Wireless Output(Phone:15W+TWS:5W)
Mode9	Wireless Output(Phone:5W+Apple watch:3W)
Mode10	Wireless Output(Phone:7.5W+Apple watch:3W)

Mode11	Wireless Output(Phone:15W+Apple watch:3W)
Mode12	Wireless Output(Phone:5W+Apple watch:5W)
Mode13	Wireless Output(Phone:7.5W+Apple watch:5W)
Mode14	Wireless Output(Phone:15W+Apple watch:5W)
Mode15	Wireless Output(Apple watch:3W+TWS:5W Max)
Mode16	Wireless Output(Apple watch:5W+TWS:5W Max)
Mode17	Wireless Output(Phone:5W+Apple watch:3W+TWS:5W)
Mode18	Wireless Output(Phone:7.5W+Apple watch:3W+TWS:5W)
Mode19	Wireless Output(Phone:15W+Apple watch:3W+TWS:5W)
Mode20	Wireless Output(Phone:5W+Apple watch:5W+TWS:5W)
Mode21	Wireless Output(Phone:7.5W+Apple watch:5W+TWS:5W)
Mode22	Wireless Output(Phone:15W+Apple watch:5W+TWS:5W)
Mode23	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
Mobile phone	iPhone 12	/	APPLE
iWatch	iWatch S8	M0JVGQG1VP	APPLE
Airpods	A1938	/	APPLE
Support cable list			
Description	Length (m)	From	To
/	/	/	/

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurement (9kHz~30MHz)	±18.6%
Electric field measurements (9kHz~30MHz)	±18.6%

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

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTi-E115	Electric and Magnetic Field Probe – Analyzer	Narda	EHP-200A	101166	2023/08/15	2026/08/14

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)

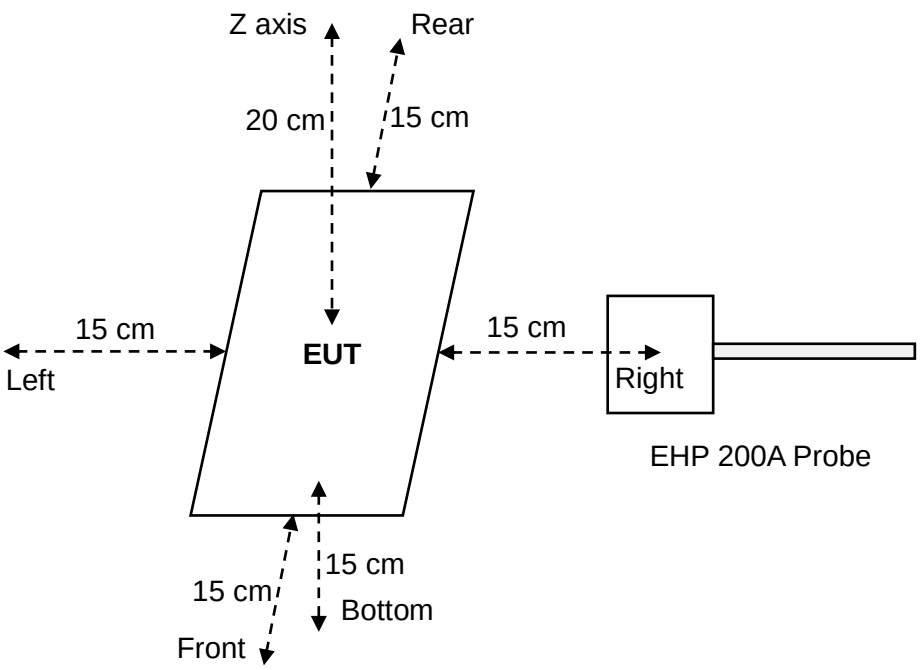
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*($900/f^2$)	<6
30-300	61.4	0.163	1.0	<6
300-1500			f/300	<6
1500-100000			5	<6
(ii) Limits for General Population/Uncontrolled 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			1.0	<30

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

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.

5.2 Test setup



5.3 Test Procedures

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 device 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 D01 Wireless Power Transfer v04.

5.4 Equipment Approval Considerations section 3 of KDB 680106 D01 Wireless Power Transfer v04

Requirement	Device
1. Per section 3.2 of KDB 680106 D01 Wireless Power Transfer v04	Yes. The operating frequencies are: Transmitter 1 (Phone-5W&7.5W): 115 kHz–205 kHz Transmitter 1 (Phone-15W): 360 kHz Transmitter 2 (Earphone-5W): 115 kHz – 205 kHz Transmitter 3 (Watch-3W): 326.5 kHz Transmitter 3 (Watch-5W):1.778 MHz
2. Per section 3.1 of KDB 680106 D01 Wireless Power Transfer v04	Yes. The device is a typical desktop device，the device meets the § 2.1091-Mobile conditions , the client device is placed directly in contact with the transmitter.

5.5 Test results

Test condition 1: Mode 22 operating mode with client device (1 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	0.5739	463.4	0.12%	0.0513	1.23	6.59%
Left	0.3795			0.0517		
Right	0.3580			0.0517		
Front	0.3701			0.0513		
Rear	0.3525			0.0811		
bottom	0.3539			0.0505		

Test condition 2: Mode 22 operating mode with client device (50 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Z axis	0.5661	463.4	0.12%	0.0533	1.23	5.93%
Left	0.3742			0.0606		
Right	0.3438			0.0464		
Front	0.3695			0.0524		
Rear	0.3408			0.0729		
Bottom	0.3621			0.0449		

Test condition 3: Mode 22 operating mode with client device (99 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	0.5552	463.4	0.12%	0.0481	1.23	5.86%
Left	0.3761			0.049		
Right	0.3554			0.0473		
Front	0.3549			0.0446		
Rear	0.3511			0.0721		
bottom	0.3383			0.0452		

Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----