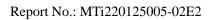


Test Report

Report No.:	MTi220125005-02E2
Date of issue:	Feb. 26, 2022
Applicant:	Anker Innovations Limited
Product:	Anker 533 wireless charger (3-in-1 stand)
Model(s):	A2538
FCC ID:	2AOKB-A2538

Shenzhen Microtest Co., Ltd. http://www.mtitest.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.

Any objection to this test report shall be submitted to the laboratory within
15 days from the date of receipt of the report.



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Test Result Certification					
Applicant:	Anker Innovations Limited				
Address: Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowle Hongkong					
Manufacturer: Anker Innovations Limited					
Address:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong				
Product description	1				
Product name:	Anker 533 wireless charger (3-in-1 stand)				
Trademark:	Anker				
Model name:	A2538				
Serial Model:	N/A				
Standards:	FCC CFR 47 PART 1, § 1.1310				
Test method:	KDB 680106 v03r01				
Date of Test					
Date of test:	2021-09-28 ~ 2021-11-10				
Test result:	Pass				

Note: The report changes the Input parameters on the basis of MTi210923013-01E1. The test data is not affected, citing the original report (date 2021-11-10).

Test Engineer :

Yanice Xie

(Yanice Xie)

Reviewed By: :

loor chen

(Leon Chen)

Approved By: :

Tom Kue

(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	Anker 533 wireless charger (3-in-1 stand)
Model name:	A2538
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input: 9V/2A, 12V/2.5A, 15V/2A Wireless Output: 10W Max+5W Max USB-A Output: 5V-1A
Accessories:	1.AC/DC Adapter: MODEL: ASUC107w-P20W12 INPUT: 100-240V~0.7A 50/60Hz OUTPUT: 5.0V=3.0A 15.0W/9.0V=2.22A 19.98W/12.0V=1.67A 20.04W 2.USB-C to USB-C cable(1.2m)
RF specification:	
Operation frequency:	transmitter 1: 115 kHz – 205 kHz transmitter 2: 115 kHz – 205 kHz
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				
Mode 1	Operating mode (Wireless Charging 5W)				
Mode 2	Operating mode (Wireless Charging 7.5W)				
Mode 3	Operating mode (Wireless Charging 10W)				
Mode 4	Operating mode (Earphone5W)				
Mode 5	Operating mode (Wireless Charging 5W+ Earphone5W)				
Mode 6	Operating mode (Wireless Charging 7.5W+ Earphone5W)				
Mode 7	Operating mode (Wireless Charging 10W+ Earphone5W)				
Mode 8	Stand-by mode				
The test data only sho	The test data only show worst test mode: Mode 7				





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	S9	/	Samsung					
Airpods	/	/	Apple					
Support cable list	Support cable list							
Description Length (m) From To								
/	/	/	/					



2 Test facilities and accreditations

2.1 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

3 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E115	Electric and Magnetic Field Probe – Analyzer		EHP-200A	101166	2021/06/02	2022/06/01



4 Test result

4.1.1 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.

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 Genera	I 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				
300-1500			f/1500	<30				
1500-100000			1.0	<30				

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

f = frequency in MHz

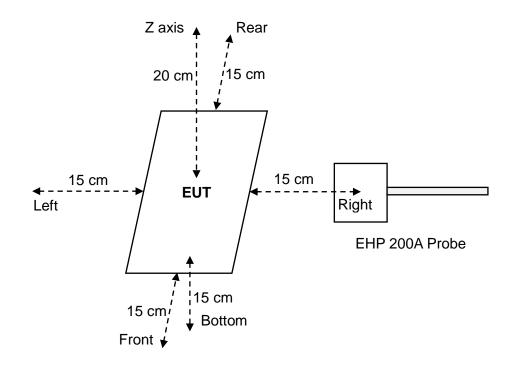
* = Plane-wave equivalent power density

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.



4.2 Test setup



4.3 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 v03r01.



4.4 Equipment Approval Considerations item 5 b) of KDB 680106 D01 v03r01

Requirement	Device
1. Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: transmitter 1: 115 kHz – 205 kHz transmitter 2: 115 kHz – 205 kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power is: transmitter 1: 10W transmitter 2: 5W
3. The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	Yes. The EUT have two source primary coils. Can charging two clients and can be powered on at the same time.
4. Client device is placed directly in contact with the transmitter.	Yes. The client device is placed directly in contact with the transmitter.
5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes. Mobile exposure conditions only.
6. The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	Yes. See the test result in item 4.5.

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4.5 Test results

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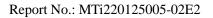
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Test condition 1: Mode 7 operating mode with client device (1 % battery status of client device)

	Droho	E –field (V/m)		H–field (A/m)				
Antenna	Probe Position	Measurement	Limit	Max.		Limit	Max. Percentage (%)	
	Z axis	2.2336	614		0.1557	1.63	11.12%	
	Left	2.2940		0.42%	0.1220			
4	Right	1.1817			0.0690			
1	Front	2.5741			0.1020			
	Rear	Rear 0.7317		0.1813				
	Bottom	1.6455			0.1524			
Conclusio	Conclusion: The Measurement value is less than 50% MPE limit, which meets the requirements.							

Test condition 2: Mode 7 operating mode with client device (50 % battery status of client device)

Antonna	Probe	robe E –field (V/m)		H–field (A/m)			
Antenna Positio		Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
	Z axis	2.2315	614		0.1563	1.63	
	Left	2.2846		614 0.42%	0.1161		11.09%
4	Right	1.1735			0.0581		
1	Front	2.5692			0.1016		
	Rear	0.7304			0.1807		
	bottom	1.6389			0.1511		
Conclusion: The Measurement value is less than 50% MPE limit, which meets the requirements.							





Antenna	Probe Position	E –field (V/m)			H–field (A/m)		
		Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
1	Z axis	2.2301	614	0.42%	0.1540	1.63	10.88%
	Left	2.2773			0.1132		
	Right	1.1718			0.0576		
	Front	2.5541			0.1008		
	Rear	0.7285			0.1774		
	bottom	1.6194			0.1483		
Conclusion: The Measurement value is less than 50% MPE limit, which meets the requirements.							

Test condition 3: Mode 7 operating mode with client device (99 % battery status of client device)



Photographs of the test setup

See the APPENDIX - Test Setup Photos.

Photographs of the EUT

See the APPENDIX - EUT Photos.

----End of Report----