

RF EXPOSURE REPORT FOR CERTIFICATION
On Behalf of

Anker Innovations Limited

Anker 335 Wireless Charger (3-in-1 Station)

Model Number: A2598

FCC ID: 2AOKB-A2598B

Applicant:	Anker Innovations Limited
Address:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok,
	Kowloon, Hong, Kong
Prepared By:	EST Technology Co., Ltd.
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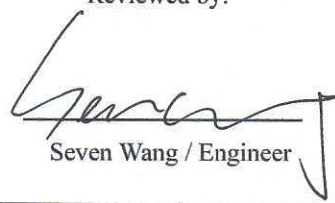


Report Number:	ESTE-R2302083
Date of Test:	Jan. 09~Feb. 08, 2023
Date of Report:	Feb. 09, 2023

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EST Technology Co., Ltd.

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		
Factory:	Shenzhen Topband Battery Co., Ltd		
Address:	Topband Industrial Park, ShiYan Town, BanAn District, Shenzhen, China		
E.U.T:	Anker 335 Wireless Charger (3-in-1 Station)		
Model Number:	A2598		
Power Supply:	Input: DC 9V/2A, DC 9V/3A Wireless Output: 10W Max+5W Max USB-A Output: 5V/0.6A		
Trade Name:	Anker	Serial No.:	-----
Date of Receipt:	Jan. 09, 2023	Date of Test:	Jan. 09~Feb. 08, 2023
Test Specification:	FCC CFR 47 Part 1.1307(b)&1.1310 KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01		
Test Result:	<p>The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC CFR 47 Part 1.1307(b)&1.1310 requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
	Prepared by:	Reviewed by:	Date: Feb. 09, 2023
	 Ring Yang / Assistant	 Seven Wang / Engineer	 Approved by:  Iceman Hu / Manager
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1. SUMMARY OF TEST

1.1. Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	Maximum Permissible Exposure	Part 1.1307(b)&1.1310	PASS

1.2. Test Mode

Test Item	Test Mode
Maximum Permissible Exposure	Wireless Charging with Empty Load
	Wireless Charging with Half Load
	Wireless Charging with Full Load
Note: The worst Full Load status is recorded in the report	

1.3. Test Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Electric and Magnetic Field Probe-Analyzer	Narda S.T.S./PMM	EHP-200A	EST-E106	June 13,22	1 Year
Simulated load	/	/	EST-306	N/A	N/A
Simulated load	/	/	EST-307	N/A	N/A
Test Software	Narda	EHP200-TS	Rel 1.92	N/A	N/A

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1. Limit

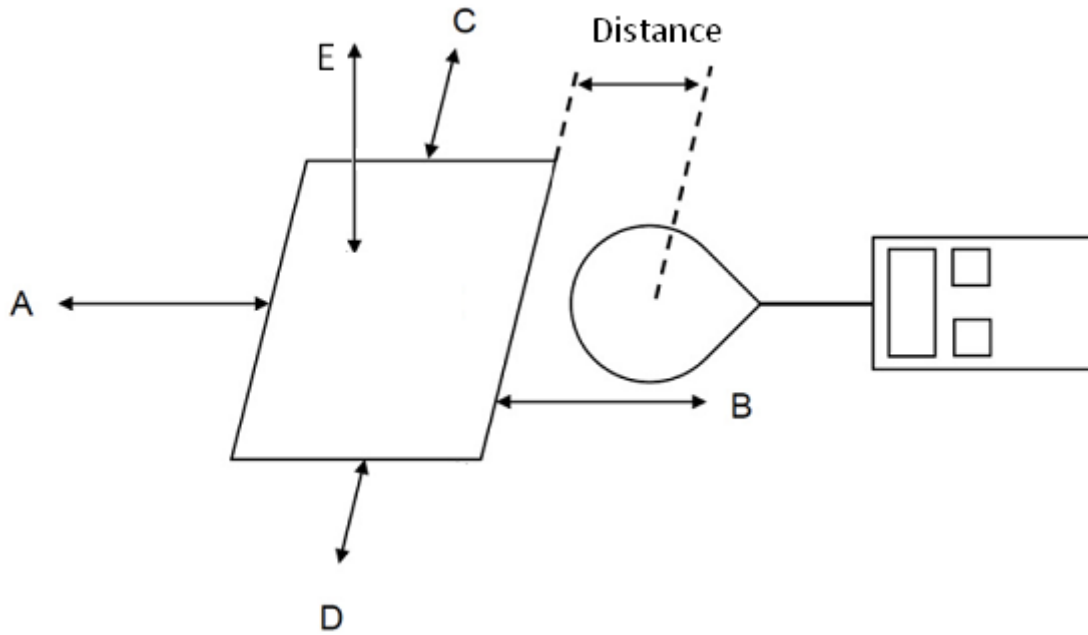
Limits for Maximum Permissible Exposure (MPE)

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/f ²	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/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

Note:

- f = frequency in MHz * = Plane-wave equivalent power density.
- For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

2.2. Test Setup A



2.3. Test Procedure

- a. The test was performed on 360 degree turn table in anechoic chamber.
- b. The probe was placed at 15 cm surrounding the device and 20 cm above the top of the charger and the geometric centre of the probe, for test setup A.
- d. The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E were completed.

2.4. Equipment Approval Considerations

Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC or a PAG for equipment approved using certification to address RF exposure compliance.

1	Power transfer frequency is less than 1 MHz
	YES; the device operated in the frequency range from 111-205KHz.
2	Output power from each primary coil is less than or equal to 15 watts.
	YES; the maximum output power of the primary coil is 15W.
3	The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
	YES.
4	Client device is placed directly in contact with the transmitter.
	YES; 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.
6	The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
	YES; The EUT field strength levels are 50% x MPE limits.

2.5. Test Result for Test setup A:

1. E-Field Test Result

Test Mode	Test distance(cm)	Full Load	Half Load	Empty Load
Frequency range (kHz)	111 to 205 kHz			
Position A(V/m)	15	6.175	5.527	4.982
Position B(V/m)	15	6.089	5.506	4.875
Position C(V/m)	15	5.920	5.498	4.825
Position D(V/m)	15	6.168	5.531	4.974
Position E(V/m)	20	10.472	9.457	9.021
Limits (V/m)	614			
50% Limits(V/m)	307			

2. H-Field Test Result

Test Mode	Test distance(cm)	Full Load	Half Load	Empty Load
Frequency range (kHz)	111 to 205 kHz			
Position A(A/m)	15	0.132	0.121	0.104
Position B(A/m)	15	0.124	0.110	0.088
Position C(A/m)	15	0.131	0.119	0.095
Position D(A/m)	15	0.126	0.115	0.091
Position E(A/m)	20	0.289	0.263	0.205
Limits (A/m)	1.630			
50% Limits (A/m)	0.815			

3. TEST SETUP PHOTO

Refer to report no. ESTE-R2302155 (Appendix A)

End of Test Report

