RF EXPOSURE REPORT FOR CERTIFICATION On Behalf of

Anker Innovations Limited

Anker 321 MagGO Battery(PowerCore 5K)

Model Number: A1616

FCC ID: 2AOKB-A1616

Applicant:	Applicant: Anker Innovations Limited						
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	Kowloon, Hong Kong						
Prepared By:	EST Technology Co., Ltd.						
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Report Number:	ESTE-R2302127
Date of Test:	Jan. 16~Feb. 14, 2023
Date of Report:	Feb. 16, 2023

EST Technology Co., Ltd Report No. ESTE-R2302127

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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

E.U.T:

Anker 321 MagGO Battery(PowerCore 5K)

Model Number:

A1616

USB-C Input: 5V===2A

Power Supply:

USB-C Output: 5V===2.4A Wireless Output: 5W/ 7.5W

Total Output: 12W Max

Trade Name:

ANKER

Serial No.:

Date of Receipt:

Jan. 16, 2023

Date of Test:

Jan. 16~Feb. 14, 2023

Test Specification:

FCC CFR 47 Part 1.1307(b)&1.1310

KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

Test Result:

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.

Date: Feb. 16, 2023

Approved by

Prepared by:

Reviewed by:

Ring Yang / Assistant

Seven Wang / Engineer

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

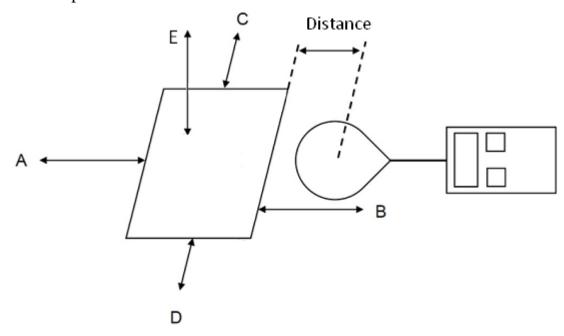
Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	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 Gene	eral Population/Und	controlled Exposure	ę					
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					

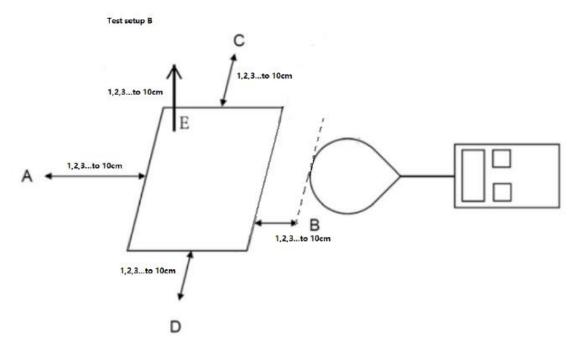
Note:

- 1. f = frequency in MHz * = Plane-wave equivalent power density.
- 2. For devices designed for typical desktop applications, such a 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 Setup B



2.4. 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.
- c. Measure magnetic and electrical field strength at a distance 10cm to 1cm at 1cm iteration, Which is between the edge of the charger and the edge of probe, for test setup B.
- 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.

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2.5. 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 that 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 7.5W.
	The transfer system includes only single primary and secondary coils. This includes
3	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
3	this exclusion).
	No.
	The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the
6	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 limts.

2.6. 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 2	205 kHz		
Position A(V/m)	15	4.175	3.527	3.242	
Position B(V/m)	15	4.089	3.506	3.422	
Position C(V/m)	15	5.845	5.223	4.558	
Position D(V/m)	15	5.478	5.321	4.998	
Position E(V/m)	20	8.231	7.889	7.231	
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 2	205 kHz		
Position A(A/m)	15	0.089	0.097	0.086	
Position B(A/m)	15	0.104	0.106	0.089	
Position C(A/m)	15	0.097	0.104	0.096	
Position D(A/m)	15	0.111	0.108	0.092	
Position E(A/m)	20	0.274	0.252	0.212	
Limits (A/m)	1.630				
50% Limits (A/m)	0.815				

Note: The product has AC Power in mode and internal battery mode, all mode have been tested, only worst case internal battery mode is recorded.

2.7. Test Result for Test setup B:

E-Filed Strength at (distance 10cm to 1cm at 1cm iteration, i.e. at a distance of 10cm, 9cm, 8cm, 1cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (V/m)

Test distance (cm)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	Limits (V/m)
1	7.554	7.4.5	7.502	7.603	11.285	614
2	7.102	7.215	7.335	7.405	11.025	614
3	7.215	7.203	7.145	7.321	10.556	614
4	7.201	7.102	6.998	7.203	10.145	614
5	6.789	6.857	6.846	6.882	10.123	614
6	6.125	6.345	6.478	6.578	9.775	614
7	6.003	6.201	6.142	6.102	9.487	614
8	5.847	5.574	5.889	5.867	9.123	614
9	5.704	5.558	5.789	5.468	8.779	614
10	5.657	5.406	5.241	5.338	8.567	614

H-Filed Strength at (distance 10cm to 1cm at 1cm iteration, i.e. at a distance of 10cm, 9cm, 8cm, 1cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (A/m)

Test distance (cm)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Limits (A/m)
1	0.132	0.134	0.130	0.139	0.289	1.63
2	0.134	0.126	0.131	0.140	0.287	1.63
3	0.124	0.126	0.134	0.141	0.274	1.63
4	0.121	0.141	0.135	0.132	0.273	1.63
5	0.112	0.132	0.111	0.124	0.274	1.63
6	0.102	0.124	0.112	0.123	0.261	1.63
7	0.104	0.098	0.098	0.124	0.253	1.63
8	0.112	0.113	0.108	0.127	0.251	1.63
9	0.105	0.102	0.105	0.125	0.245	1.63
10	0.102	0.089	0.087	0.125	0.212	1.63

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Note: Only internal battery mode.

3. TEST SETUP PHOTO

Refer to report no. ESTE-R2302200 (Appendix A) $\,$

End of Test Report