



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100361002

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Human Exposure Report

Application No.: SZCR2311003610AT
Applicant: Anker Innovations Limited
Address of Applicant: Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, HongKong
Manufacturer: Anker Innovations Limited
Address of Manufacturer: Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, HongKong
Equipment Under Test (EUT):
EUT Name: Anker MagGo Wireless Charging Station
Model No.: A25M3
Trade Mark: Anker
FCC ID: 2AOKB-A25M3
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2023-11-09
Date of Test: 2023-11-16 to 2023-11-24
Date of Issue: 2023-11-29

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-11-29		Original

Authorized for issue by:			
		Charlie Dai/Project Engineer	
		Eric Fu/Reviewer	



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2 General Information

2.1 Details of E.U.T.

Power supply:	Adapter: Model: ASPD53a-P40W20 Input: 100-240V~50/60HZ 1.0A Output: 5.0V/3.0A, 9.0V/3.0A, 12.0V/3.0A, 15.0V/2.66A, 20.0V/2.0A Wireless output: Output 1: 5W/7.5W/15W(for iphone) Output 2: 5W(for iwatch) Output 3: 5W(for TWS)
Cable(s):	USB-C to USB-C 150cm unshielded
Operation frequency:	Output 1 (for iphone): 119.20-141.20kHz & 356.60-369.60kHz Output 2 (for iwatch): 325.32-327.60kHz & 1.776-1.779MHz Output 3 (for TWS): 111.40-180.00kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Duty Cycle:	100%

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 13	Apple	MLDYCH/A	REF. No.SEA16Q00
iWatch	Apple	Apple Watch 3	N/A
TWS	Anker	A3930	N/A
iWatch	Apple	Apple Watch Series 7	N/A
E-loading	SGS	N/A	REF. No.SEA42A00
E-loading	SGS	N/A	REF. No.SEA42A10
E-loading	Customer provided	N/A	N/A



2.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

2.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.



3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2024-04-01



4 Test Results

4.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 20cm

Limit:

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 Exposures				
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
1500-100,000	/	/	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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).



4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1000 mbar

This device has been tested the worst status of full load and the device has been tested with mobile phone/iWatch/TWS at zero charge, intermediate charge, and full charge.

4.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W).
Pre-scan	01	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W).
Pre-scan	02	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 15W).
Pre-scan	03	Operation(Wireless):Keep the EUT pairing with other devices(Output2: 5W).
Pre-scan	04	Operation(Wireless):Keep the EUT pairing with other devices(Output3: 5W).
Pre-scan	05	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output2: 5W).
Pre-scan	06	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output2: 5W).
Pre-scan	07	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 15W+Output2: 5W).
Pre-scan	08	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output 3: 5W).
Pre-scan	09	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output3: 5W).
Pre-scan	10	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 15W+Output 3: 5W).
Pre-scan	11	Operation(Wireless):Keep the EUT pairing with other devices(Output2: 5W+Output 3: 5W).



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Pre-scan	12	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output2: 5W+Output 3: 5W).
Pre-scan	13	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output2: 5W+Output 3: 5W).
Final test	14	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 15W+Output2: 5W+Output 3: 5W).



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4.1.3 Measurement Data

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
			Output1:360kHz Output2:326kHz Output3:127kHz which is the worst case	20	Side 1		
Side 2	0.034	0.097	0.114				
Side 3	0.022	0.078	0.089				
Side 4	0.027	0.084	0.096				
Top	0.027	0.084	0.096				

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
			Output1:360kHz Output2:326kHz Output3:127kHz which is the worst case	20	Side 1		
Side 2	0.122	0.103	0.059				
Side 3	0.094	0.079	0.045				
Side 4	0.101	0.085	0.049				
Top	0.100	0.084	0.048				



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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			unload	Half load	full load		
			Output1:360kHz Output2:326kHz Output3:127kHz which is the worst case	20	Side 1		
Side 2	0.033	0.159	0.192				
Side 3	0.022	0.109	0.131				
Side 4	0.032	0.113	0.136				
Top	0.031	0.121	0.146				

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			zero charge	intermediate charge	full charge		
			Output1:360kHz Output2:326kHz Output3:127kHz which is the worst case	20	Side 1		
Side 2	0.182	0.147	0.117				
Side 3	0.125	0.103	0.080				
Side 4	0.129	0.107	0.083				
Top	0.138	0.112	0.089				

Note: The test was conducted when output1 15W, output2 5W, and output3 5W were working simultaneously, and the worst recorded data was at the frequency point of 360kHz.

- End of the Report -



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