

# Human Exposure Report

**Application No.:** FYCR2205000191AT  
**Applicant:** Anker Innovations Limited  
**Address of Applicant:** Room 1318-19, Hollywood Plaza 610 Nathan Road, Mongkok, Kowloon, Hong Kong  
**Manufacturer:** Anker Innovations Limited  
**Address of Manufacturer:** Room 1318-19, Hollywood Plaza 610 Nathan Road, Mongkok, Kowloon, Hong Kong  
**Factory:** 1, ASAP Technology(Jiangxi) Co., Ltd  
 2, LUXSHARE-ICT(NGHE AN) LIMITED  
**Address of Factory:** 1, Ji'an Industrial park, Ji'an, Jiangxi 343100 China  
 2, No.18 Street 03, VSIP Nghe An Industrial Park, Hung Tay Commune,Hung Nguyen District,Nghe An Province, Vietnam  
**Equipment Under Test (EUT):**  
**EUT Name:** Wireless Charger  
**Model No.:** Y1811  
**FCC ID:** 2AOKB-Y1811  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
 47 CFR PART 2, Subpart J, Section 2.1091  
**Date of Receipt:** 2022-05-25  
**Date of Test:** 2022-05-26 to 2022-07-08  
**Date of Issue:** 2022-07-12

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above



EMC Technical Manager



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**Compliance Certification Services (Kunshan) Inc.  
Shenzhen Branch**

Report No.: FYCR220500019102

Page: 2 of 9

<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2022-07-12		Original

<b>Authorized for issue by:</b>			
		<hr/>	
		<b>Tree Zhan/Project Engineer</b>	
		<hr/>	
		<b>Winkey Wang/Reviewer</b>	



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## 2 Contents

<b>1</b>	<b>COVER PAGE</b> .....	<b>1</b>
<b>2</b>	<b>CONTENTS</b> .....	<b>3</b>
<b>3</b>	<b>GENERAL INFORMATION</b> .....	<b>4</b>
3.1	DETAILS OF E.U.T. ....	4
3.2	DESCRIPTION OF SUPPORT UNITS .....	4
3.3	TEST LOCATION .....	5
3.4	TEST FACILITY .....	5
3.5	DEVIATION FROM STANDARDS .....	5
3.6	ABNORMALITIES FROM STANDARD CONDITIONS .....	5
<b>4</b>	<b>EQUIPMENTS USED DURING TEST</b> .....	<b>6</b>
<b>5</b>	<b>TEST RESULTS</b> .....	<b>8</b>
5.1	RF EXPOSURE TEST .....	8
5.1.1	<i>E.U.T. Operation</i> .....	8



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### 3 General Information

#### 3.1 Details of E.U.T.

Power Supply:	Adapter: Model: ASPD9w-P30W20 Input: 100-240V~50/60HZ 1.0A Output: 5.0V/3.0A, 9.0V/3.0A, 12.0V/2.5A, 15.0V/2.0A, 20.0V/1.5A Wireless output: Output 1: 5W/7.5W/15W (for iphone) Output 2: 5W (for iwatch) Output 3: 5W (for airpods)
Cable(s):	USB-C to USB-C 150cm unshielded
Operation frequency:	Output 1 (for iphone): 359.20-361.60KHz Output 2 (for iwatch): 324.80-327.20KHz Output 3 (for airpods): 139.20-141.80KHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

#### 3.2 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
Airpods	Apple	Airpods 2	REF. No.SEA05B06D
E-loading	SGS	N/A	REF. No.SEA42A00



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### 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 3.4 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

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

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

### 3.5 Deviation from Standards

None.

### 3.6 Abnormalities from Standard Conditions

None.



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## 4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	CRT	N/A	SEM001-13	2022-07-12
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2023-04-01

### 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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Report No.: FYCR220500019102

Page: 7 of 9

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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## 5 Test Results

### 5.1 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: 15/20cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	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).

#### 5.1.1 E.U.T. Operation

##### Operating Environment:

Temperature: 22.3 °C      Humidity: 52.9 % RH      Atmospheric Pressure: 1015 mbar



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

**5.1.2 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		
360KHz	15	Side 1	0.128	0.138	0.176	0.815	0.163
		Side 2	0.121	0.135	0.167		
		Side 3	0.113	0.132	0.166		
		Side 4	0.120	0.137	0.165		
360KHz	20	Top	0.138	0.144	0.179	0.815	0.163
140KHz			0.058	0.065	0.071		
326KHz			0.049	0.056	0.058		

**Magnetic Field Emissions**

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		
360KHz	15	Side 1	0.168	0.144	0.115	0.815	0.163
		Side 2	0.165	0.139	0.112		
		Side 3	0.163	0.136	0.111		
		Side 4	0.166	0.139	0.114		
360KHz	20	Top	0.178	0.154	0.125	0.815	0.163
140KHz			0.063	0.056	0.044		
326KHz			0.049	0.042	0.034		

- End of the Report -

