



## Human Exposure Report

**Application No.:** SZEM1910019771CR  
**Applicant:** HANK Electronics Co., Ltd.  
**Address of Applicant:** Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China  
**Manufacturer:** HANK Electronics Co., Ltd.  
**Address of Manufacturer:** Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China  
**Factory:** HANK Electronics Co., Ltd.  
**Address of Factory:** Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Wireless Charger Holder  
**Model No.:** HKWP1671-10E  
**FCC ID:** 2AIOC-1671  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
47 CFR PART 2, Subpart J, Section 2.1093  
**Date of Receipt:** 2019-10-31  
**Date of Test:** 2019-11-01 to 2019-11-19  
**Date of Issue:** 2019-11-20

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

Kenx. Xu

Kenx Xu  
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-11-20		Original

Authorized for issue by:			
			
		<hr/>	
		Bill Chen /Project Engineer	
			
		<hr/>	
		Eric Fu /Reviewer	



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### 3 General Information

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

Power Supply:	Car charger: Input:DC 12V-24V Output:DC 5V --- 2.4A Output QC 3.0:DC 5V --- 3A,9V --- 2A,12V --- 1.5A Wireless charger: Input:DC 5V --- 2A,9V --- 1.7A,12V --- 1.25A Output: 10W Max
Cable:	USB cable:100cm unshielded
Antenna Type:	Loop Antenna
Antenna Gain:	0dBi
Modulation Type:	Load Modulation
Operation Frequency:	113.301KHz to 146.635kHz
Remark:	This device has been tested the worst status of full load and the device has been tested with load at 5W,7.5W and 10W,the worst case 10W is reported only.

#### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	F4GVQ656JC6D
Rechargeable Battery	Gadlee	DP00027	REF. No.SEA2800
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB



### 3.3 Test Location

All tests were performed at:

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

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

Tel: +86 755 2601 2053 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. 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**

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. 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **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.

### 3.5 Deviation from Standards

None.

### 3.6 Abnormalities from Standard Conditions

None.



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Shenzhen Branch EMC Laboratory

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## 4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2020-06-10
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-05-06



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## 5 Test Results

### 5.1 RF Exposure test

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

Measurement Distance: 0/2/4/6/8/10/15cm

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: 25.0 °C Humidity: 53 % RH Atmospheric Pressure: 1015 mbar

##### EUT Operation:

This device had been tested with mobile phone at zero charge, intermediate charge, and full charge.



## 5.1.2 Measurement Data

**Output Voltage=DC 9V; The max output power =10W**

### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
123 kHz	0	Side 1	0.3971	0.815
		Side 2	0.7968	0.815
		Side 3	0.2704	0.815
		Side 4	0.7042	0.815
		Top	0.5129	0.815

### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
123 kHz	2	Side 1	0.3397	0.815
		Side 2	0.7235	0.815
		Side 3	0.2193	0.815
		Side 4	0.6338	0.815
		Top	0.4539	0.815

### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
123 kHz	4	Side 1	0.2930	0.815
		Side 2	0.6653	0.815
		Side 3	0.1797	0.815
		Side 4	0.5730	0.815
		Top	0.4044	0.815





**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
123 kHz	6	Side 1	0.2548	0.815
		Side 2	0.6270	0.815
		Side 3	0.1429	0.815
		Side 4	0.5394	0.815
		Top	0.3705	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
123 kHz	8	Side 1	0.2216	0.815
		Side 2	0.5921	0.815
		Side 3	0.1103	0.815
		Side 4	0.5026	0.815
		Top	0.3351	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
123 kHz	10	Side 1	0.1913	0.815
		Side 2	0.5594	0.815
		Side 3	0.0759	0.815
		Side 4	0.4634	0.815
		Top	0.2982	0.815



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**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
123 kHz	15	Side 1	0.1194	0.815
		Side 2	0.4906	0.815
		Side 3	0.0420	0.815
		Side 4	0.3935	0.815
		Top	0.2459	0.815

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
123 kHz	0	Side 1	0.4102	0.3979	0.3935	0.815
		Side 2	0.8092	0.7966	0.7916	0.815
		Side 3	0.2798	0.2691	0.2641	0.815
		Side 4	0.7141	0.7004	0.6959	0.815
		Top	0.5222	0.5069	0.5031	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
123 kHz	2	Side 1	0.3487	0.3342	0.3307	0.815
		Side 2	0.7363	0.7232	0.7183	0.815
		Side 3	0.2313	0.2188	0.2142	0.815
		Side 4	0.6444	0.6324	0.6290	0.815
		Top	0.4659	0.4556	0.4509	0.815



### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
123 kHz	4	Side 1	0.3018	0.2877	0.2827	0.815
		Side 2	0.6785	0.6656	0.6619	0.815
		Side 3	0.1923	0.1794	0.1756	0.815
		Side 4	0.5861	0.5724	0.5678	0.815
		Top	0.4166	0.4013	0.3963	0.815

### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
123 kHz	6	Side 1	0.2672	0.2553	0.2518	0.815
		Side 2	0.6364	0.6237	0.6185	0.815
		Side 3	0.1555	0.1436	0.1388	0.815
		Side 4	0.5482	0.5368	0.5328	0.815
		Top	0.3829	0.3683	0.3638	0.815

### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
123 kHz	8	Side 1	0.2326	0.2207	0.2173	0.815
		Side 2	0.6014	0.5886	0.5841	0.815
		Side 3	0.1233	0.1083	0.1032	0.815
		Side 4	0.5129	0.5026	0.4981	0.815
		Top	0.3478	0.3327	0.3288	0.815



### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
123 kHz	10	Side 1	0.2030	0.1882	0.1848	0.815
		Side 2	0.5715	0.5617	0.5575	0.815
		Side 3	0.0858	0.0742	0.0693	0.815
		Side 4	0.4746	0.4644	0.4593	0.815
		Top	0.3099	0.2972	0.2921	0.815

### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
123 kHz	15	Side 1	0.1297	0.1192	0.1158	0.815
		Side 2	0.5009	0.4853	0.4810	0.815
		Side 3	0.0511	0.0381	0.0338	0.815
		Side 4	0.4057	0.3945	0.3893	0.815
		Top	0.2584	0.2423	0.2380	0.815



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## 6 Photographs

Please refer to RF Exposure setup photo.

- End of the Report -



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