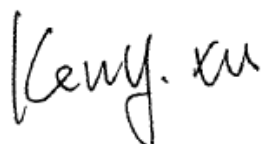


Human Exposure Report

Application No.: SZEM1901010176CR
Applicant: SHENZHEN LANNENGSHITONG ELECTRONICS CO., LTD
Address of Applicant: Floor3 No.40 xinhe road shangmugu village Pinghu neighborhood Longgang District, Shenzhen, 518110, China
Manufacturer: SHENZHEN LANNENGSHITONG ELECTRONICS CO., LTD
Address of Manufacturer: Floor3 No.40 xinhe road shangmugu village Pinghu neighborhood Longgang District, Shenzhen, 518110, China
Factory: SHENZHEN LANNENGSHITONG ELECTRONICS CO., LTD
Address of Factory: Floor3 No.40 xinhe road shangmugu village Pinghu neighborhood Longgang District, Shenzhen, 518110, China
Equipment Under Test (EUT):
EUT Name: Ubiolabs Dual Wireless Charging Pad and Hub
Model No.: AWC1041
Trade Mark: UbioLabs
FCC ID: 2APNH-AWC1041
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2019-01-09
Date of Test: 2019-01-09 to 2019-03-22
Date of Issue: 2019-03-26

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



Keny Xu
 EMC Laboratory Manager



2 Contents

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3 General Information

3.1 Details of E.U.T.

Power supply: Adapter:
 Model: CHG1088
 Input: AC 110-240V,50-60Hz
 Output: DC 5-15V/3.5A Max
 Output: Wireless 1: 5W-10W Max
 Wireless 2: 5W-10W Max
 USB A 1: 5V2.4A
 USB A 2: 5V2.4A

Cable: USB cable:175cm unshielded

Antenna Type: Loop Antenna

Modulation Type: Load Modulation

Operation Frequency: 110.192kHz to 205.769kHz,

Remark: The device can charge the phone separately and can simultaneously charge two phones at the same time, but the worst condition is to charge both phones at the same time, the test is tested in the worst state, and the two phones are charged at the same time.
 This device has been tested the worst status of full load and the device has been tested with load at zero charge, intermediate charge, and full charge.
 1)Tests were conducted in both load modes and the worst case (10W) is reported only.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB
iPhone 8	Apple	A1863	F4GVQ656JC6D
Dummy load	E-Charging	N/A	N/A



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:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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.



4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Shielding Room	SAEMC	MSR733	SEM001-09	2020-05-09
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2019-05-06



5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
 Measurement Distance: 15/20cm
 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).

5.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.5 °C Humidity: 52% RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested the worst status of full load and the device has 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)
147.2 kHz	15	Side 1	0.0269	0.815
		Side 2	0.0241	0.815
		Side 3	0.0273	0.815
		Side 4	0.0266	0.815
	20	Top	0.0237	0.815

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

Magnetic Field Emissions

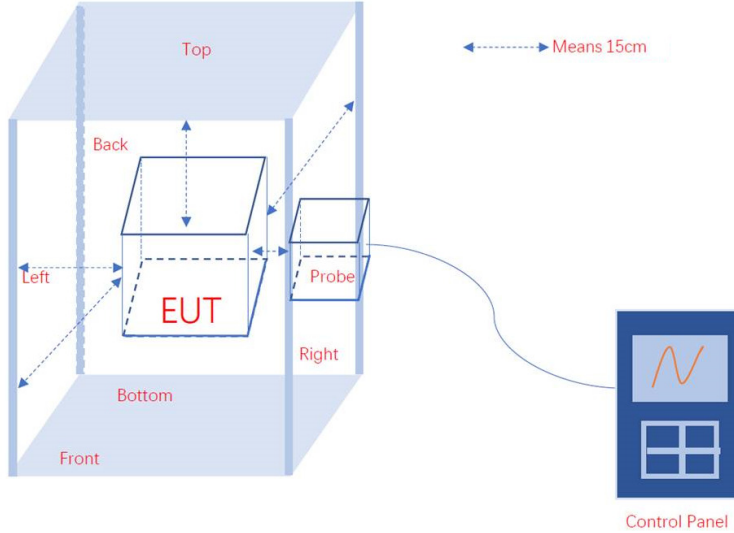
Operation frequency	Test Distance (cm)	15	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
147.2 kHz	15	Side 1	0.0273	0.0259	0.0234	0.815
		Side 2	0.0255	0.0238	0.0202	0.815
		Side 3	0.0261	0.0243	0.0217	0.815
		Side 4	0.0285	0.0262	0.0247	0.815
	20	Top	0.0248	0.0235	0.0201	0.815



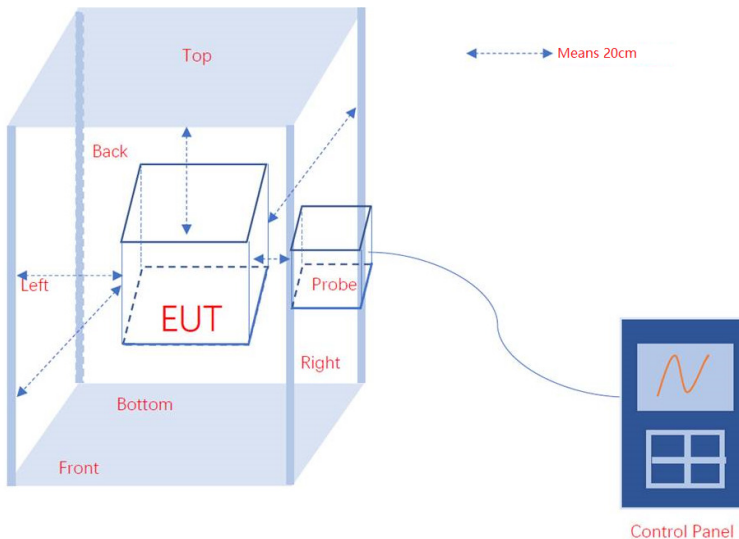
6 Photographs

6.1 Test setup photos

For Side 1, Side2, Side 3 and Side 4



For Top



- End of the Report -

