

Human Exposure Report

Application No.: SZEM2010010556CR
Applicant: LIDL US LLC
Address of Applicant: 3500 S Clark Street, ARLINGTON VA 22202, USA
Manufacturer: LIDL US LLC
Address of Manufacturer: 3500 S Clark Street, ARLINGTON VA 22202, USA
Factory: FUJIAN YOUTONG INDUSTRIES CO., LTD.
Address of Factory: North part of 1st, 2nd-3rd floor, Building 1#, M9511 industries Park, No.18, Majiang Road, Mawei District, Fuzhou City, Fujian, China

Equipment Under Test (EUT):

EUT Name: Qi wireless charger
Model No.: HG07456A-US
Trade mark: Silvercrest
FCC ID: 2AJ9O-HG07456A
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2020-10-22
Date of Test: 2020-10-23 to 2020-11-10
Date of Issue: 2020-11-10



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

Keny Xu
EMC Laboratory Manager



<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2020-11-10		Original

Authorized for issue by:			
			
		<hr/> Leo Li/Project Engineer	
			
		<hr/> Eric Fu/Reviewer	



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3 General Information

3.1 Details of E.U.T.

Power supply: Input: DC 9V/2A, DC 12V/1.5A
 Output: 5W/7.5W/10W
 Total power: 10W max.

Antenna type: Loop Antenna

Modulation type: Load modulation

Operation frequency: 110.58KHz-144.07KHz

Remark: Tests were conducted in all load modes and the worst case 10W is reported only.

3.2 Description of Support Units

Cable	Length	Shielding	Core
Type-C cable	100cm	Unshielded	Non-Core

3.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	REF. No.SEA7600
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA7900
Adapter(client supply)	ROMOSS	AC30A	N/A
Dummy load	E-Charging	N/A	REF. No.SEA7100



3.4 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.

3.5 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.

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.



4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-11-27



5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
Measurement Distance: 15cm
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: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar

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

The max output power =10W;

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
131 kHz	15	Side 1	0.0538	0.815
		Side 2	0.0422	0.815
		Side 3	0.0576	0.815
		Side 4	0.0458	0.815
		Top	0.0483	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	
131 kHz	15	Side 1	0.0633	0.0492	0.0450	0.815
		Side 2	0.0538	0.0377	0.0330	0.815
		Side 3	0.0666	0.0527	0.0489	0.815
		Side 4	0.0564	0.0437	0.0387	0.815
		Top	0.0594	0.0486	0.0438	0.815

- End of the Report -

