

Report No.: GZCR220300031602

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FCC ID: 2AJ9O-HG07781

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2203000316AT

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 & USB Charging station

Model No.: HG07781A-US, HG07781B-US

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Standard(s): 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2022-03-29

Date of Evaluation: 2022-03-29 to 2022-04-08

Date of Issue: 2022-04-11

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager



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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



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SGS-CSTC Standards Technical Services Co., Ltd. **Guangzhou Branch**

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	Revision Record							
Version Chapter Date Modifier								
01		2022-04-11		Original				

Authorized for issue by		
Tested By	Cof Vlu	
	Curry Wu/Project Engineer	
Reviewed By	Riday Liu	
	Ricky Liu/Reviewer	



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2 Evaluation Summary

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310	KDB 680106 D01 TCB Workshop Presentation November 2019 RF Exposure	CFR 47 Part 1.1310	Pass			

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Declaration of EUT Family Grouping:

Model No.: HG07781A-US, HG07781B-US

Only the model HG07781A-US was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on color and model No..





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4 **General Information**

4.1 Details of E.U.T.

Power supply: Input: DC 9V/3A

Output:

WPC: 5W/7.5W/10W Dual USB-A output: 5V/1A

Type-C cable: 105cm shielded Cable(s):

Modulation Type: Load modulation Antenna Type: Loop antenna

Operation Frequency: 114.6kHz to 144.2kHz

This device has been tested the worst status of full load and the device Remark:

has been tested with load at 5W, 7.5W and 10W, the worst case 10W is

reported only.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Adapter	Xiaomi	MDY-12-ES	Client supplied	
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00	
iPhone 8	Apple	A1863	REF. No.SEA16J00	
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	REF. No.SEA16M01	
E-loading	SGS	N/A	REF. No.SEA42A00	

4.3 Test modes description:

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Final test	02	Charge mode_Keep the EUT charging(10W)

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
RF Exposure Evaluation	MF: 0.13dB, EF: 0.4dB



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Equipments Used during Test 5

RF Exposure								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
743 Compact 3m Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2019-10-20	2022-10-19			
Electric and Magnetic Field Analyzer	Narada	NBM-550	EMC2143	2022-01-06	2023-01-05			
Probe	Narada	EHP-50F	EMC2143	2022-01-06	2023-01-05			

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-08	2022-07-07
DMM	Fluke	73	EMC0007	2021-07-08	2022-07-07



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5.1 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

5.2 Facility

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

NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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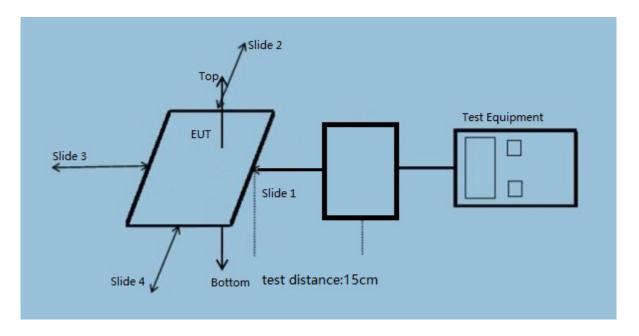
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5.3 Deviation from Standards

5.4 Abnormalities from Standard Conditions

5.5 Test Block Diagram





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Test Results

6.1 RF Exposure test

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

Measurement Distance: 15cm

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	ge Electric field strength (V/m) Magnetic field strength (A/m)		Power density (mW/cm²)	Averaging time (minutes)			
	(A) Limits for Occ	cupational/Controlled Ex	posures				
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 Genera	l Population/Uncontrolle	ed 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

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).

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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^{*=}Plane-wave equivalent power density



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6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 51.4% RH Atmospheric Pressure: 1010 mbar

EUT Operation:

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.



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6.1.2 Measurement Data

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The max output power =10W. Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
nequency		1 03111011	unload	Half load	full load		
125.3 kHz		Side 1	0.078	0.093	0.107		
which is		Side 2	0.074	0.085	0.104		
the worst case	45	Side 3	0.083	0.098	0.111	0.045	0.400
within the	15	Side 4	0.081	0.093	0.109	0.815	0.163
operation frequency range		Тор	0.075	0.089	0.104		

Magnetic Field Emissions

magnetio i icia Emissionis										
Operation	Test Distance	Test	Probe Measure Result(A/m)			50 % Limit	10 % Limit			
Operation frequency	(cm)	Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)			
125.3 kHz		Side 1	0.105	0.088	0.070					
which is		Side 2	0.103	0.087	0.069					
the worst case within the operation frequency range	45	Side 3	0.113	0.095	0.076	0.045	0.400			
	15	Side 4	0.109	0.092	0.073	0.815	0.163			
	n 🗀	Тор	0.106	0.089	0.071					



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Photographs- RF exposure Setup photos 7

Test with mobile phone with 15cm measurement distance





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