

Report No.: SZEM181200018902

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Human Exposure Report

Application No.: SZEM1812000189CR(SGS SZ No.:T51810300010EM)

Applicant: Lucky Group(H.K.) Limited

Address of Applicant: Building B, Lucky Industrial Park, Hongjin Road, Hongmei Town, Dongguan,

China

Manufacturer: Shenzhen WUDOUMI Electronics Technology Co., Ltd

Buyer: D&B

Supplier: Lucky Group (H.K.) Limited

Equipment Under Test (EUT):

EUT Name: Wireless Charger Mouse Pad

Model No.: 17831

P.O. / Ref. No.: LBD80531

Country of Origin: China

Country of Destination: USA

FCC ID: 2ACO3-17831

Standards: 47 CFR PART 1, Subpart I, Section 1.1310

Date of Receipt: 2018-12-06

Date of Test: 2018-12-10 to 2018-12-21

Date of Issue: 2018-12-26

Test Result : Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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2 General Information

2.1 Details of E.U.T.

Power supply: Input:DC5V/2A 9V/1.67A

Output:DC 5V/1A 9V/1A

Cable: USB cable:95cm unshielded

Antenna Type: Loop Antenna Modulation Type: Load Modulation

Operation Frequency: 111.54kHz to 180.77kHz

Remark: 1)Tests were conducted in both load modes and the worst case (10W) is

reported only.

2)Applicant provided two cables. The one is USB to DC port and the other one is with a AC/DC adapter. Both power supplies has been evaluated and

the worst case(with AC/DC adapter) has been reported only.

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Adapter	Apple	A1357 W010A051 REF. No.SEA		
Mobile phone	SAMSUNG	SM-G9500	R28J9140LPB	



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2.3 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.

2.4 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.



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2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None

3 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	2019-02-06



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4 Test Results

4.1 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/cm²)	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/f²)	6				
30-300	61.4	0.163	1.0	6				
300-1500	/	1	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/f²)	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).

4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °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 load at zero charge, intermediate charge, and full charge.



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^{*=}Plane-wave equivalent power density



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4.1.2 Measurement Data

Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value=9 Ω Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
	15	Side 1	0.0028	0.815
		Side 2	0.0037	0.815
147.2 kHz		Side 3	0.0052	0.815
		Side 4	0.0046	0.815
		Тор	0.0039	0.815

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

Magnetic Field Emissions

Operation	Test Test		Probe Measure Result(A/m)			50%Limit
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
		Side 1	0.0026	0.0022	0.0023	0.815
147.2 kHz		Side 2	0.0039	0.0036	0.0038	0.815
	15	Side 3	0.0054	0.0062	0.0055	0.815
		Side 4	0.0044	0.0046	0.037	0.815
		Тор	0.0037	0.0034	0.0031	0.815

5 Photographs- RF exposure Setup photos

Refer to RF exposure setup.

- End of the Report -



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