



Human Exposure Report

Application No.: SZEM2008007828CR
Applicant: Voxx Accessories Corp.
Address of Applicant: 3502 Woodview Trace, Suite 220, Indianapolis, Indiana 46268 United States
Manufacturer: Voxx Accessories Corp.
Address of Manufacturer: 3502 Woodview Trace, Suite 220, Indianapolis, Indiana 46268 United States
Factory: Shenzhen Feihe Electronics Co., Ltd
Address of Factory: 2/F, 3/F and West Side of 4/F, Bldg. 2, Hongfa Innovative Park, Lezhujiao, Jiuwei, Hangcheng Avenue, Bao'an District, Shenzhen, China

Equipment Under Test (EUT):
EUT Name: LED Desk Lamp with Wireless Charging
Model No.: ALQ100
Trade Mark: AR (Acoustic Research)
FCC ID: VIXALQ100
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2020-08-12
Date of Test: 2020-08-19 to 2020-08-21
Date of Issue: 2020-08-27

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

Keny Xu
 EMC Laboratory Manager





Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-08-27		Original

Authorized for issue by:			
			
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		Peter Geng /Project Engineer	
			
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		Eric Fu /Reviewer	



1 Contents

	Page
1 COVER PAGE	1
1 CONTENTS	3
2 GENERAL INFORMATION	4
2.1 DETAILS OF E.U.T.	4
2.2 DESCRIPTION OF SUPPORT UNITS	4
2.3 TEST LOCATION.....	5
2.4 TEST FACILITY.....	5
2.5 DEVIATION FROM STANDARDS	5
2.6 ABNORMALITIES FROM STANDARD CONDITIONS.....	5
3 EQUIPMENTS USED DURING TEST	6
4 TEST RESULTS	7
4.1 RF EXPOSURE TEST	7
4.1.1 E.U.T. Operation	7
Operating Environment:	7
EUT Operation:	7
4.1.2 Measurement Data.....	8



2 General Information

2.1 Details of E.U.T.

Power supply: AC/DC adapter information,
 MODEL: TY1200150A1mn
 INPUT: AC 100-240V, 50/60Hz, 0.8A
 OUTPUT: DC 12V, 1.5A

Cable: DC cable: 180cm, unshielded

Operation frequency: 110.42kHz to 164.42kHz

Modulation type: Load modulation

Antenna type: Coil antenna

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB



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:

- **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.

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 (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2020-11-09
2	Electric Field Meter	Schaffner	EMC20	EMC068	2020-11-27



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/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).				

4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °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 mobile phone at zero charge, intermediate charge, and full charge.



4.1.2 Measurement Data

Output Voltage=DC 5V; The max output power =5W;Calculation of resistor value=5Ω

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
121 kHz	15	Side 1	0.0433	0.815
		Side 2	0.0407	0.815
		Side 3	0.0437	0.815
		Side 4	0.0353	0.815
		Top	0.0328	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	
121 kHz	15	Side 1	0.0527	0.0401	0.0356	0.815
		Side 2	0.0506	0.0361	0.0314	0.815
		Side 3	0.0528	0.0385	0.0351	0.815
		Side 4	0.0462	0.0350	0.0304	0.815
		Top	0.0455	0.0300	0.0251	0.815

- End of the Report -

