

Report No.: SZEM191202077604

Page: 1 of 12

Human Exposure Report

Application No.: SZEM1912020776CR **Applicant:** Voxx Accessories Corp.

Address of Applicant: 3502 Woodview Trace suite 220, Indianapolis, Indiana, 46268, United

States

Manufacturer: Shenzhen Great Power Innovation and Technology Enterprise Co., Ltd

Address of Manufacturer: No. 331, No. 335, Guiyue Road, Dafu Community, Guanlan Street,

Longhua District, Shenzhen, China

Factory: Shenzhen Great Power Innovation and Technology Enterprise Co., Ltd

Address of Factory:

No. 331, No. 335, Guiyue Road, Dafu Community, Guanlan Street,

Longhua District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Wireless Charging Speaker **Model No.:** SPQ820, ARQ820 •

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

actually tested and which were electrically identical.

Trade mark: 808 AR(Acoustic Research)

FCC ID: VIXSPQ820

47 CFR PART 1.1310

Standards: 47 CFR PART 2.1093

KDB447498D01 General RF exposure Guidance v06

Date of Receipt: 2019-12-02

Date of Test: 2019-12-03 to 2019-12-11

Date of Issue: 2019-12-13

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



Report No.: SZEM191202077604

Page: 2 of 12

	Revision Record								
Version	Version Chapter Date Modifier								
01		2019-12-13		Original					

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	



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Report No.: SZEM191202077604

Page: 3 of 12

1 Contents

1	CONTENTS	
2	2 GENERAL INFORMATION	4
	2.1 DETAILS OF E.U.T.	
	2.2 DESCRIPTION OF SUPPORT UNITS	
	2.3 Test Location	6
	2.4 TEST FACILITY	
	2.5 DEVIATION FROM STANDARDS	
	2.6 ABNORMALITIES FROM STANDARD CONDITIONS	6
3	B EQUIPMENTS USED DURING TEST	7
Ŭ		
4	RF EXPOSURE RESULTS	8
	4.1 RF EXPOSURE TEST	۶
	4.1.1 E.U.T. Operation	
	4.1.2 Measurement Data	
	4.2 RF EXPOSURE COMPLIANCE REQUIREMENT	10
	4.2.1 Standard Requirement	
	4.2.2 Limits	1(
	4.2.3 EUT RF Exposure	
	4.3 RF SIMULTANEOUS EXPOSURE REQUIREMENT	11
5	5 PHOTOGRAPHS	12
	5.1 Test setup photos	12



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Report No.: SZEM191202077604

Page: 4 of 12

2 General Information

2.1 Details of E.U.T.

Power Supply:	DC3.7V by li-ion battery
	Recharge input: DC5V/2A via USB port
	Wireless output: 5W
Cable:	USB cable: 0.6m unshielded cable without ferrite core
For BT:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	5.0
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	PCB antenna
Antenna Gain:	0 dBi
For WPC:	
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operation Frequency:	113.78kHz to 139.10kHz
Remark:	This device has been tested the worst status of full load and the
	device has been tested with load at 5W.

Remark:

Model No.: SPQ820, ARQ820

Only the model SPQ820 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on trade mark and packaging for marketing purpose.



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Report No.: SZEM191202077604

Page: 5 of 12

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB



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Report No.: SZEM191202077604

Page: 6 of 12

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.

VCC

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.



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Report No.: SZEM191202077604

Page: 7 of 12

3 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	2020-02-06



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Report No.: SZEM191202077604

Page: 8 of 12

4 RF Exposure 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	/	/	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/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: 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.



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^{*=}Plane-wave equivalent power density



Report No.: SZEM191202077604

9 of 12 Page:

4.1.2 **Measurement Data**

The max output power =5W;

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
118 kHz	15	Side 1	0.0656	0.815
		Side 2	0.0396	0.815
		Side 3	0.0623	0.815
		Side 4	0.0335	0.815
		Тор	0.0412	0.815

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

Magnetic Field Emissions

Operation	Test	lest		Probe Measure Result(A/m)		
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	50%Limit (A/m)
	Side Side	Side 1	0.0744	0.0629	0.0595	0.815
		Side 2	0.0485	0.0340	0.0297	0.815
118 kHz		Side 3	0.0714	0.0557	0.0520	0.815
		Side 4	0.0436	0.0299	0.0252	0.815
		Тор	0.0539	0.0379	0.0328	0.815



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Report No.: SZEM191202077604

Page: 10 of 12

4.2 RF Exposure Compliance Requirement

4.2.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.2.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.2.3 EUT RF Exposure

For BT:

The Max. power (including tune-up toleranc 3.42 dBm on the lowest channe 2.402 GHz (*) 3.42 dBm logarithmic terms convert to numeric result is nearly 2.20 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = $\frac{(\text{Max. Power of channel, including tune-up tolerance, } mW) * \sqrt{f (GHz)}}{(\text{min. test separation distance,} mm)}$ General RF Exposure = $(2.20 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.68$ (1)

SAR requirement: S = 3.0 (2)

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.: SZEM191202077602



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Report No.: SZEM191202077604

Page: 11 of 12

4.3 RF Simultaneous Exposure Requirement

1.For Bluetooth continuous transmitting when WPC's working simultaneously, Bluetooth RF power is still the same, without any power drift.

2.For WPC works with Bluetooth continuous transmitting, the magnetic strength from WPC has little fluctuation:

3.As transmitting power for WPC is so low that even when it's working with Bluetooth, is still exempt from SAR testing.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
	15	Side 1	0.0652	0.815
118 kHz		Side 2	0.0402	0.815
		Side 3	0.0621	0.815
		Side 4	0.0339	0.815
		Тор	0.0415	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	quency Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
	(6)					
	Side 1 Side 2 Side 3 Side 4	Side 1	0.0763	0.0624	0.0587	0.815
		Side 2	0.0477	0.0351	0.0303	0.815
118 kHz		Side 3	0.0705	0.0568	0.0519	0.815
		Side 4	0.0443	0.0311	0.0264	0.815
		Тор	0.0551	0.0383	0.0342	0.815



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Page: 12 of 12

5 Photographs

5.1 Test setup photos

Please refer to RF Exposure Setup Photos.

- End of the Report -



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