

SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen Branch



Report No.: SZEM200900882502

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Human Exposure Report

Application No.: SZEM2009008825CR **Applicant:** GN Audio USA Inc.

Address of Applicant: 900 Chelmsfort St, Tower 2, Floor 8, Lowell, Massachusetts, 01851 United

States

Manufacturer: GN Audio A/S

Address of Manufacturer: Lautrupbjerg 7, 2750 Ballerup, Denmark

Equipment Under Test (EUT):

EUT Name: Wireless Charging Pad

Model No.: 5190001
Trade Mark: Jabra

FCC ID: BCE-5190001

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

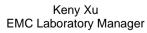
47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2020-09-03

Date of Test: 2020-09-04 to 2020-09-17

Date of Issue: 2020-09-21

Test Result : Pass*





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



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Revision Record						
Version Chapter Date Modifier						
01		2020-09-21		Original		

Authorized for issue by:		
	(eo ti	
	Leo Li /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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2 General Information

2.1 Details of E.U.T.

Power Supply:	Input: DC 5V/2A/Max Output: DC 5V1A(5W)
Cable:	USB cable: 100cm unshielded
Operation frequency:	112.02kHz to 158.17kHz
Modulation type:	Load Modulation
Antenna type:	Loop Antenna

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Adapter	Apple	A1357 W010A051	REF. No.SEA0500	
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB	



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Test Location 2.3

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.



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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	2020-11-27



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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)			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 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	/	1	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: 24.1 °C Humidity: 52 % 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.



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^{*=}Plane-wave equivalent power density



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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)
126.3 kHz		Side 1	0.0288	0.815
		Side 2	0.0358	0.815
	15	Side 3 0.0274	0.0274	0.815
		Side 4	0.0324	0.815
		Тор	0.0230	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)
	15	Side 1	0.0390	0.0246	0.0201	0.815
		Side 2	0.0464	0.0361	0.0324	0.815
126.3 kHz		Side 3	0.0373	0.0227	0.0184	0.815
		Side 4	0.0422	0.0291	0.0250	0.815
		Тор	0.0359	0.0268	0.0242	0.815

- End of the Report -



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