

Report No.: GZCR210902113602

Page: 1 of 13 FCC ID: Y22-S7FXZ

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2109021136AT **Applicant:** SKULLCANDY, INC.

Address of Applicant: 6301 N Landmark Dr Park City UT 84098, Utah United States of America

Manufacturer: SKULLCANDY, INC.

Address of Manufacturer: 6301 N Landmark Dr Park City UT 84098, Utah United States of America

Equipment Under Test (EUT):

EUT Name: FUELBASE MAX 2 WIRELESS CHARGE PAD

Model No.: S7FXZ
Trade Mark:

Skullcandy

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

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2021-09-23

Date of Evaluation: 2021-09-23 to 2021-09-26

Date of Issue: 2021-09-27

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager



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



EMC-TRF-03 Rev 1.0

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

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Modifier	Remark
	Original
_	

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



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2 Evaluation Summary

adio Spectrum Matter Part							
Item	Standard	Method	Requirement	Resul			
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310; 47 CFR PART 2, Subpart J, Section 2.1091	KDB 680106 D01	47 CFR PART 1, Subpart I, Section 1.1310; 47 CFR PART 2, Subpart J, Section 2.1091	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.



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4 General Information

4.1 Details of E.U.T.

Power supply: INPUT: 5V/3A 9V/2.22A 12V/1.67A

OUTPUT:5W+10W (MAX)

Cable(s): USB cable: 71cm unshielded Operation Frequency: 111.000KHz-149.000KHz

Modulation Type: Load modulation

Loop antenna

Antenna Type: Remark: The system has two source primary coils, charging one or two

clients. The two primary coils are present, the coil pairs were powered on at

the same time.



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4.2 Test modes description:

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charging mode(Left)_Keep the EUT charging (5W)
Pre-scan	01	Charging mode(Right)_Keep the EUT charging (5W)
Pre-scan	02	Charging mode(Right)_Keep the EUT charging (7.5W)
Pre-scan	03	Charging mode(Right)_Keep the EUT charging (10W)
Pre-scan	04	Charging mode(Left and Right)_Keep the EUT charging (Left 5W; RIght 5W)
Pre-scan	05	Charging mode(Left and Right)_Keep the EUT charging (Left 5W; RIght 7.5W)
Final test	06	Charging mode(Left and Right)_Keep the EUT charging (Left 5W; RIght 10W)

4.3 Description of Support Units

F FF						
Description	Manufacturer	Model No.	Serial No.			
AC/AC Adapter	YUEWEI	YW-2440 (Input: AC220-230V, 50Hz;Output: DC24V, Max. 4A)	CE02			
Mobile Phone	SAMSUNG	SM-G9810	RFCN309Q9QF			
Mobile Phone	Xiaomi	M2001J2C	RFCN3021J2C			
E-loading	Provided by applicant	Huier wireless	N/A			

4.4 Measurement Uncertainty

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



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5 Equipments Used during Test

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	2020-01-07	2022-01-06		
Probe	Narada	EHP-50F	EMC2143	2020-01-07	2022-01-06		

General used equipment							
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:

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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.

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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5.3 Deviation from Standards

5.4 Abnormalities from Standard Conditions

None



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6 Test Results

6.1 RF Exposure test

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

Measurement Distance: 15cm and 20cm

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)	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 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	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: 22.8 °C Humidity: 52.7% 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

The max output power =15W;

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.0599	0.815
	15	Side 2	0.0543	0.815
127.2 kHz		Side 3	0.0544	0.815
127.2 KHZ		Side 4	0.0533	0.815
		Тор	0.0612	0.815
	20	Тор	0.0565	0.815

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

Magnetic Field Emissions

Operation	Test	Test	Probe	asure Result(A/m) 50%L		
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
		Side 1	0.0597	0.0502	0.0399	0.815
		Side 2	0.0584	0.0491	0.0390	0.815
107 0 kUz	15	Side 3	0.0572	0.0480	0.0382	0.815
127.2 kHz	Side 4	0.0605	0.0508	0.0404	0.815	
		Тор	0.0659	0.0554	0.0440	0.815
	20	Тор	0.0576	0.0493	0.0400	0.815



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Photographs- RF exposure Setup photos

Refer to Appendix - RF Exposure SetupPhoto for GZCR2109021136AT.

- End of the Report -



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