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Report No.: SZEM160300153202
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SAR Evaluation Report

Application No.: SZEM1603001532CR
Applicant: Skullcandy, Inc.
Manufacturer: Skullcandy, Inc.
Product Name: Bluetooth Speaker
Model No.(EUT): S7PCW

Trade Mark:



SKULLCANDY

FCC ID: Y22- S7PCW
Standards: 47 CFR Part 1.1307 (2015)
47 CFR Part 2.1093 (2015)
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2016-03-19
Date of Test: 2016-04-06 to 2016-04-11
Date of Issue: 2016-04-12

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

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

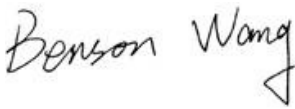
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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2016-04-12		Original

Authorized for issue by:				
Tested By		 (Benson Wang) /Project Engineer		2016-04-11
				Date
Prepared By		 (Link Liang) /Clerk		2016-04-12
				Date
Checked By		 (Eric Fu) /Reviewer		2016-04-12
				Date



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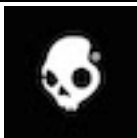


4 General Information

4.1 Client Information

Applicant:	Skullcandy, Inc.
Address of Applicant:	1441 West Ute Blvd. Suite 250 Park City UT 84098
Manufacturer:	Skullcandy, Inc.
Address of Manufacturer:	1441 West Ute Blvd. Suite 250 Park City UT 84098

4.2 General Description of EUT

Product Name:	Bluetooth Speaker
Model No.:	S7PCW
Trade Mark:	 SKULLCANDY
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.1 single mode
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	Portable production
Test Power Grade:	Class II
Test Software of EUT:	Blue test3
Antenna Type and Gain:	Type : Integral Gain : 3.37dBi
Power Supply:	Li-Ion Polymer Battery 3.7V 2000mAh(Charge by USB port)





4.3 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

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.4 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 10m Semi-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.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.



5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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.

5.1.2 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:

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

$f(\text{GHz})$ 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 ≤ 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

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -0.57dBm in highest channel(2.480GHz);

The best case gain of the antenna is 3.37dBi.

$\text{EIRP} = -0.57\text{dBm} + 3.37\text{dBi} = 2.80\text{dBm}$

2.80dBm logarithmic terms convert to numeric result is nearly 1.91mW

According to the formula. calculate the EIRP test result:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})}$$

General RF Exposure = $(1.91\text{mW} / 5 \text{ mm}) \times \sqrt{2.480\text{GHz}} = 0.602$ ①

SAR requirement:

$S = 3.0$

② ;

① < ②.

So the SAR report is not required.