RF EXPOSURE REPORT



Report No.: 15070232-FCC-H1
Supersede Report No.: N/A

Applicant	SHENZHEN KINGSUN ENTERPRISES Co.,Ltd		
Product Name	Bluetooth Wrap Around Sports Headphones		
Model No.	DC-816		
Serial No.	N/A		
Test Standard	FCC 2.1093		
Test Date	March 16, 2015		
Issue Date	April 14, 2015		
Test Result	Pass Fail		
Equipment complied with the specification			
Equipment did not comply with the specification			
Winnie.Zh	ung Chris You		
Winnie Zh Test Engir			

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070232-FCC-H1	NONE	Original	April 14, 2015

2. Customer information

Applicant Name	SHENZHEN KINGSUN ENTERPRISES Co.,Ltd	
Applicant Add 25/F, CEC Information Building, Xinwen Rd., Shenzhen, Guangdong, China		
Manufacturer SHENZHEN KINGSUN ENTERPRISES Co.,Ltd		
Manufacturer Add	25/F, CEC Information Building, Xinwen Rd., Shenzhen, Guangdong, China	

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong	
	China 518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	



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4. Equipment under Test (EUT) Information

Description of EUT:	Bluetooth Wrap Around Sports Headphones
Main Model:	DC-816
Serial Model:	N/A
Date EUT received:	April 02, 2015
Test Date(s):	March 16, 2015
Antenna Gain:	Bluetooth: 0 dBi
Type of Modulation:	Bluetooth: GFSK, π /4DQPSK, 8DPSK
RF Operating Frequency (ies):	Bluetooth: 2402-2480 MHz
Number of Channels:	Bluetooth: 79CH
Port:	USB Port
Input Power:	DC 5V(USB Port) Battery: Spec: 3.7V 200mAh Limited charger voltage: 5V
Trade Name :	N/A
FCC ID:	2AAPKDC-816



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5. FCC §2.1093 - Maximum Permissible exposure

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 16 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 ≤ 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.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

result = $P\sqrt{F}/D$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



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5.2 Test Result

Bluetooth Mode:

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	-5.049	-4.5±1	-3.5	0.45	0.14	3
	Mid	2441	-4.622	-4.5±1	-3.5	0.45	0.14	3
	High	2480	-4.542	-4.5±1	-3.5	0.45	0.14	3
π /4 DQPSK	Low	2402	-5.281	-4.5±1	-3.5	0.45	0.14	3
	Mid	2441	-4.778	-4.5±1	-3.5	0.45	0.14	3
	High	2480	-4.800	-4.5±1	-3.5	0.45	0.14	3
8-DPSK	Low	2402	-5.219	-4.5±1	-3.5	0.45	0.14	3
	Mid	2441	-4.746	-4.5±1	-3.5	0.45	0.14	3
	High	2480	-4.701	-4.5±1	-3.5	0.45	0.14	3

Result: Compliance

No SAR measurement is required.