# RF EXPOSURE REPORT



Report No.: 16070959-FCC-H Supersede Report No.: N/A

Applicant	Shenzhen Kingsun Enterprises Co., Ltd.			
Product Name	Bluetooth headset			
Model No.	MA-2631			
Serial No.	NV-05010,I	NV-05010,NV-05011, NV-05012,NV-05013, NV-05014,NV-05015		
Test Standard	FCC 2.1093:2015			
Test Date	August 08 to 24, 2016			
Issue Date	August 25, 2016			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Loven	Luo	David Huang		
Loren Luo Test Engineer		David Huang Checked By		

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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
16070959-FCC-H	NONE	Original	August 25, 2016

## 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

4. Equipment under 1	est (EOT) IIIIOIIIIatioii
Description of EUT:	Bluetooth headset
Main Model:	MA-2631
Serial Model:	NV-05010,NV-05011, NV-05012,NV-05013, NV-05014,NV-05015
Date EUT received:	August 08, 2016
Test Date(s):	August 08 to 24, 2016
Antenna Gain:	1.2dBi
Antenna Type:	PCB antenna
Type of Modulation:	GFSK, π /4DQPSK, 8DPSK
RF Operating Frequency (ies):	2402-2480 MHz(TX/RX)
Number of Channels:	79CH
Port:	USB Port, Power Port, AUX-IN
Input Power:	Battery: Spec:3.7V,400mAh,-1.48Wh USB:DC 5V
Trade Name :	N/A
FCC ID:	2AAPKMA-2631



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## 5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

#### 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  $\le 7.5$  for 10-g extremity SAR,  $^{16}$  where

- f<sub>(GHz)</sub> is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- 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  $\leq 5$  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	-2.957	-3±1	-2	0.631	0.20	3
	Mid	2441	-2.208	-3±1	-2	0.631	0.20	3
	High	2480	-2.017	-3±1	-2	0.631	0.20	3
π /4 DQPSK	Low	2402	-4.820	-4.5±1	-3.5	0.447	0.14	3
	Mid	2441	-3.534	-4.5±1	-3.5	0.447	0.14	3
	High	2480	-3.915	-4.5±1	-3.5	0.447	0.14	3
8-DPSK	Low	2402	-4.211	-3.5±1	-2.5	0.562	0.17	3
	Mid	2441	-3.531	-3.5±1	-2.5	0.562	0.18	3
	High	2480	-3.321	-3.5±1	-2.5	0.562	0.18	3

Result: Compliance

No SAR measurement is required.

Note: Minimum test separation distance is <5mm.