RF EXPOSURE REPORT



Report No.:17021728-FCC-H1 Supersede Report No.: N/A

Applicant	Shenzhen Qi Ying	Shenzhen Qi Ying Electronics Co.,Ltd			
Product Name	Clip Wireless Car	Clip Wireless Car Audio player			
Main Model	QY-BK02				
Test Standard	FCC 2.1093				
Test Date	December 20 to I	December 26, 2017			
Issue Date	January 09, 2017	January 09, 2017			
Test Result Pass Fail					
Equipment compl	ied with the specific	ation 🔽			
Equipment did no	t comply with the sp	pecification			
Amo	25. Xia	Deon Dai			
Amos XiaDeon DaiTest EngineerEngineer Reviewer					
Test re		port may be reproduced in full only s test report is applicable to the teste	d sample only		

Issued by:

SIEMIC (Nanjing-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 comonnity 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				

Accreditations for Conformity Assessment



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1 Report Revision History

Report No.	Report Version	Description	Issue Date
17021728-FCC-H1	NONE	Original	January 09, 2017

2 <u>Customer information</u>

Applicant Name	Shenzhen Qi Ying Electronics Co.,Ltd	
Applicant Add	Floor 2,Building D ,Quan Yuan Fa Industrial Zone,Guan Lan Road No.73,Long Hua District,Shenzhen City ,China	
Manufacturer	Shenzhen Qi Ying Electronics Co.,Ltd	
Manufacturer Add	Floor 2,Building D ,Quan Yuan Fa Industrial Zone,Guan Lan Road No.73,Long Hua District,Shenzhen City ,China	

3 <u>Test site information</u>

Lab performing tests	SIEMIC (Nanjing-China) Laboratories		
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China		
FCC Test Site No.	694825		
IC Test Site No.	4842B-1		
Test Software	EZ_EMC		



Equipment under Test (EUT) Information 4 Description of EUT: Clip Wireless Car Audio player Main Model: QY-BK02 Serial Model: N/A Date EUT received: December 18,2017 Test Date(s): December 20 to December 26, 2017 Antenna Gain: Bluetooth: 0 dBi Output Power: 0.195 dBm

Type of Modulation:

Port:

Input Power:

Bluetooth: GFSK, π/4DQPSK, 8DPSK

RF Operating Frequency (ies): Bluetooth: 2402-2480 MHz

Number of Channels: Bluetooth: 79CH

N/A

DC 3.3-4.2V Battery:3.7V 1000mAh

N/A

Trade Name :

FCC ID: 2AOLJQY-BK02



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5 FCC §2.1093 - 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* \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)].

- $[\sqrt{f_{(GHz)}}] \leq 3.0$ 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 \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.

Test Result:

Туре	Test mode	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)
Output power	GFSK	Low	2402	0.195	-1.5±2
		Mid	2441	-1.558	
		High	2480	-3.037	

One antennas are available for the EUT (BT antenna).

GFSK Mode:

The maximum average output power(turn-up power) in low channel of BT is 0.5 dBm=1.12mW

The calculation results= $1.12/5^* \sqrt{2.402} = 0.35 < 3$

The maximum average output power(turn-up power) in middle channel of BT is 0.5 dBm=1.12mW

The calculation results= $1.12/5^*\sqrt{2.441} = 0.35 < 3$

The maximum average output power(turn-up power) in high channel of BT is 0.5 dBm=1.12mW

The calculation results= $1.12/5^* \sqrt{2.480} = 0.35 < 3$

Test Result: Pass Note:Only show the worst data(GFSK Mode).