



# SAR Evaluation Report

**Application No.:** SZEM2010009999CR  
**Applicant:** Voxx Accessories Corp.  
**Address of Applicant:** 3502 Woodview Trace suite 220, Indianapolis 46268 United States  
**Manufacturer:** Voxx Accessories Corp.  
**Address of Manufacturer:** 3502 Woodview Trace suite 220, Indianapolis 46268 United States  
**Factory:** JingWah Ballet Digital Technology Co., Ltd.  
**Address of Factory:** 3rd Floor, Building A1, Iron Tower Industrial Park, Hedi Road, Shang Village, Gong Ming Town, Guang Ming District, Shenzhen, Guangdong, China

**Equipment Under Test (EUT):**  
**EUT Name:** Wirless Audio Transmitter & Receiver  
**Model No.:** RBTTX10  
**Trade mark:** Jensen  
**FCC ID:** VIXRBTTX10  
**Standards:** 47 CFR Part 1.1307  
 47 CFR Part 2.1093  
 KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2020-10-29  
**Date of Test:** 2020-10-10 to 2020-10-29  
**Date of Issue:** 2020-11-02

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu  
 EMC Laboratory Manager





## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-11-02		Original

<b>Authorized for issue by:</b>			
		 <hr/> <b>Bill Chen/Project Engineer</b>	
		 <hr/> <b>Eric Fu/Reviewer</b>	





### 3 Contents

	Page
1 COVER PAGE .....	1
2 VERSION .....	2
3 CONTENTS .....	3
4 GENERAL INFORMATION .....	4
4.1 GENERAL DESCRIPTION OF EUT .....	4
4.2 TEST LOCATION .....	5
4.3 TEST FACILITY .....	5
4.4 DEVIATION FROM STANDARDS .....	5
4.5 ABNORMALITIES FROM STANDARD CONDITIONS .....	5
4.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER .....	5
5 SAR EVALUATION .....	6
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT .....	6
5.1.1 <i>Standard Requirement</i> .....	6
5.1.2 <i>Limits</i> .....	6
5.1.3 <i>EUT RF Exposure</i> .....	6



## 4 General Information

### 4.1 General Description of EUT

Power adapter:	DC input 5V 0.5A Rechargeable battery DC 3.7V 750mAh (Charge by USB)
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Classic
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, Pi/4DQPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	PIFA
Antenna Gain:	-0.68dBi



## 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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.

## 4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 4.4 Deviation from Standards

None.

## 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.



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## 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  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  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 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  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is 3.58 dBm on the highest channel 2.48 GHz (\*)  
 3.58 dBm logarithmic terms convert to numeric result is nearly 2.28 mW

According to the formula. calculate the test exclusion thresholds:

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

$$\text{General RF Exposure} = (2.28 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 0.72 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

(1)  $<$  (2)

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM201000999902

- End of the Report -

