



MPE Test Report

Report No.: ACON-ESH-P19112701B-3

FCC ID: 2AVHC-OEM-05146

Product: Bluetooth Audio Amplifier Board

Model: OEM-05146

Received Date: Nov.27, 2019

Test Date: Dec.02 to Dec.20, 2019

Issued Date: Dec.28, 2019

Applicant: Sure Electronics Co.,Ltd.

Address: 3F,Building F6,No.9,Weidi Road,Qixia Dist.,Nanjing,China

Manufacturer: Sure Electronics Co.,Ltd.

Address: 3F,Building F6,No.9,Weidi Road,Qixia Dist.,Nanjing,China

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

Lab Address: No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)

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Table of Contents

Release Control Record.....	3
1 Certificate of Conformity.....	4
2 RF Exposure.....	5
2.1 Limits For Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula	5
2.3 MPE Calculation Formula	5
2.4 Calculation Result of Maximum Permissible Exposure	6



Release Control Record

Issue No.	Description	Date Issued
ACON-ESH-P19112701B-3	Original release	Dec.28, 2019

1 Certificate of Conformity

Product: Bluetooth Audio Amplifier Board

Brand: Robern

Model: OEM-05146

Applicant: Sure Electronics Co.,Ltd.

Test Date: Dec.02 to Dec.10, 2019

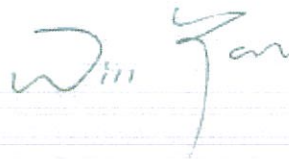
Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

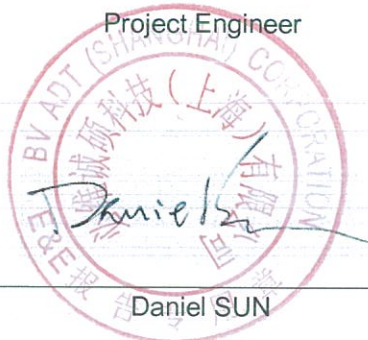


, Date: Dec.28, 2019

Will YAN

Project Engineer

Approved by :



Daniel SUN

, Date: Dec.28, 2019

RF Supervisor

2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

2.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

2.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max Tune-up Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
BT-EDR					
2402-2480	0.69	4	20	0.005861	1

Conclusion:

The calculation result of MPE is less than the limit.

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